



1982 DRILLING AND INITIAL PART OF 1983 HEAVY MINERAL SAMPLING OF PART OF THE BUR PROPERTY, YUKON

09117S

Claims EL 1, JO 2-10, SUE 1-4, KAT 1-16,
18-21, 23, 25-40, 43-46, NAN 1-4,
JAN 1-4, 6, 8, DEN 1-2, 9-10, WEN 1, 3-5, 7, 9-10,
AND 1-2, 3-6, 8, JY 1-16, 22, 24

Whitehorse Mining District

Geographic Coordinates
61° 22'N
139° 23'W
NTS Sheet 115G/6

by

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1983 09 09

Work on Property Conducted 1982 09 07 to 1983 07 25

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SECTION 1.0 INTRODUCTION

Continued exploration of the Bur property in the fall of 1982 and the early summer of 1983 consisted of the drilling of three holes, the collection of 21 panned concentrates from which the heavy minerals were analyzed, the construction of an access trail part of the way to the drillsites, and the rebuilding of part of the road through the canyon of Tatamagouche Creek after it was washed out twice by floods in July 1983. This report describes these explorations. The geographic setting, previous work, and geology of the parts of the property explored during the periods noted above, have been fully covered in previous assessment reports and so are not repeated in this report; information on these aspects is included in the reports listed in the references.

Many of the tributaries of Burwash and Tatamagouche Creeks have not been formally named. For convenience some of these tributaries or pups have been given informal names (Fig. 4.1, 5.1).

The topographic map used as a base for Fig. 4.1 is an enlargement of one prepared photogrammetrically at a scale of 1:5000 in 1978 without surveyed ground control. Subsequent surveying by chain and compass of some of the roads along both Burwash and Tatamagouche Creeks and a claim line connecting them resulted in closure errors of about 10 m. Unfortunately some of the contours do not agree with the chain and compass surveys. Because of the small closure errors in the chain and compass surveys, they have been plotted in Fig. 4.1 as surveyed in spite of some discrepancies with the contours.

The work reported here was conducted in two periods: September 7 to 28, 1982 and June 28 to July 25, 1983 with the drilling and trail construction during the first period and the heavy mineral sampling and road maintenance during the second period. Accommodation was in a temporary camp in the valley of Burwash Creek. A four-wheel-drive vehicle provided access along the rough roads up Burwash and Tatamagouche Creeks, supplemented by an all-terrain cycle.

SECTION 2.0 RESULTS

1. The gold-bearing zone in tuffs below the magnetitic peridotite sill intersected in drillhole 81-5 is faulted out in drillhole 82-1 about 25 m away, and was not reached in drillhole 82-2, which was abandoned because of drilling difficulties before reaching its planned depth.
2. A pyritic tuff layer encountered in drillholes 82-2 and 82-3, stratigraphically higher but still below the magnetitic peridotite sill, contains only traces of gold.

3. Anomalous concentrations of gold are present in samples from Kat and Sky Creeks.

4. Anomalous concentrations of lead, zinc and copper are present in samples from the upper ends of Kat, Pat, and Sky Creeks.

SECTION 3.0 PROPERTY

The Bur property now consists of more than 300 quartz mineral claims along both sides of Burwash Creek extending from Duke River to beyond Tatamagouche Creek in the Whitehorse Mining District (Fig. 1.2) but only the 92 claims to which the work reported herein is to be applied are listed below.

Claim	Grant Number	Record Date	Expected Expiry Date
EL 1	YA23529	1978 08 28	1988 04 16
JO 2-8	YA23538-44	1978 08 28	1990 04 16
SUE 1-2	YA23545-46	1978 08 28	1989 04 16
SUE 3-4	YA23547-48	1978 08 28	1990 04 16
KAT 1-4	YA23553-56	1978 08 28	1990 04 16
KAT 5	YA23557	1978 08 28	1987 04 16
KAT 6-8	YA23558-60	1978 08 28	1986 04 16
NAN 1-4	YA23561-64	1978 08 28	1990 04 16
JAN 1,3	YA23569, -71	1978 08 28	1989 04 16
JAN 2,4,6,8,	YA23570, -72, -74, -76	1978 08 28	1988 04 16
DEN 1-2	YA23577-78	1978 08 28	1989 04 16
WEN 1,3,5,7,	YA23585, -87, -89, -91	1978 08 28	1990 04 16
WEN 4	YA23588	1978 08 28	1989 04 16
AND 1-2	YA23593-94	1978 08 28	1989 04 16
AND 3-6, 8	YA23595-98, YA23600	1978 08 28	1990 04 16
JY 1-2	YA23601-02	1978 08 28	1989 04 16
JY 3-8	YA23603-08	1978 08 28	1990 04 16
JY 9-16	YA51125-32	1980 08 13	1989 04 16
JY 22,24	YA51138, -40	1980 08 13	1989 04 16
KAT 10	YA51142	1980 08 13	1985 04 16
KAT 12	YA 51144	1980 08 13	1986 04 16
KAT 15-16	YA51147-48	1980 08 13	1989 04 16
KAT 25-40	YA75167-82	1982 10 18	1986 10 18
KAT 43-46	YA75185-86	1982 10 18	1986 10 18
JO 9-10	YA75189-90	1982 10 18	1986 10 18
WEN 9-10	YA75191-92	1982 10 18	1986 10 18
DEN 9-10	YA75193-94	1982 10 18	1986 10 18

The recorded holder of these claims is Laurence B. Halferdahl for whom the work described in this report was conducted. On its approval, this work is expected to extend the expiry dates of these claims to those listed above.

The work reported here was performed in 1982 and 1983 on the claims listed below.

1982		1983	
YA23542	JO 6	YA23544	JO 8
YA23585	WEN 1	YA23591	WEN 7
YA23587-89	WEN 3-5	YA51141, -43	KAT 9,11
		YA51145-46, 50-53	KAT 13-14, 18-21
		YA51155, -77, -79, -82	KAT 23,35,37,40

SECTION 4.0 DRILLING

Three diamond drillholes were cored with depths as follows (Fig. 4.1).

Drillhole	Depth	Claim
82-1	47.85 m	WEN 5
82-2	139.60	JO 6
82-3	85.34	WEN 3
	272.79 m	

A Drilcor Hydra drill was used, with the drill being moved from site to site by a Jet Ranger Bell 206B helicopter based at Haines Junction or a Hughes 500 based at Whitehorse. Lithological logs are in appendix 1 and assays in appendix 2. Also in appendix 1 is another lithological log for drillhole 81-5, which amplifies the previously submitted lithological log for drillhole 81-5.

In the lithological logs, the many varieties of tuffs have not been precisely correlated from hole to hole. In fact, some correlatable units have different names in the several logs, but the thicker vitrophyric units appear to be correlatable. These vitrophyric units are blocky, hard, and tough: they are very hard on diamond drill bits.

SECTION 5.0 HEAVY MINERAL SURVEY

5.1 Sampling and Analysis

Samples of heavy minerals were collected from four creeks and their tributaries all draining into Tatamagouche Creek from the south. The first samples in most creeks were collected 100 m upstream from their confluences with Tatamagouche Creek; other samples were collected at intervals of mostly 200 m or 400 m farther upstream with the sample number corresponding to the number of metres upstream except for some of the smaller tributaries.

The following creeks or their tributaries or both were sampled.

Creek	Designation in Appendix 3*	Sampled Length	Number of Samples
Kat	I, Kat, East Fork	1400 m	7
Unnamed	KKIW	555	1
Pat	KK2W, West Fork I, West Fork II, Right For	2400	9
Sky	KK3W	1300	4
		5655 m	21

At each sample location gravel from the bed of the creek was shovelled into a five-gallon (24-L) pail with the larger boulders omitted, so that at most locations, the boulders omitted from the samples will compensate for the swell of the disturbed gravel. The gravel in the pail was sieved wet with an 8-inch hand sieve and the -10 mesh material panned to ¼ to ½ kg in the field. These concentrates were later dried and the heavy minerals separated at a specific gravity of 2.96. A representative part of the non-magnetic heavy fraction was analyzed by standard atomic absorption techniques for copper, nickel, lead, and zinc, and by neutron activation techniques for gold.

5.2 Results

The analytical results are in appendix 3 and shown in Fig. 5.1. The 21 samples collected and analyzed are too few for statistical analyses, but inspection of the results indicates the following:

Gold is moderately anomalous at one location along Kat Creek, slightly anomalous at another along Kat Creek, and slightly anomalous at one location along Sky Creek.

Lead is highly anomalous at one location near the upper end of Kat Creek, slightly anomalous at the next location downstream, and slightly anomalous at six locations along the upper part of Pat Creek and its tributaries.

Zinc is slightly anomalous at the upper parts of Kat, Pat, and Sky Creeks.

Copper is slightly amomalous also at the upper parts of Kat, Pat, and Sky Creeks.

Nickel is slightly anomalous in one sample each from Pat and Sky Creeks.

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* Some analyses in appendix 3 are for samples not included in this report.

Although anomalous gold and lead concentrations are only coincident at one location along the upper part of Kat Creek, it appears likely that lead, zinc, and copper anomalies, particularly if coincident may be related to gold. These results added to those previously obtained suggest the possibility of a gold-bearing zone in the upper part of the Station Creek Formation or the lower part of the Hasen Creek Formation.

SECTION 6.0 ACCESS TRAIL CONSTRUCTION AND ROAD MAINTENANCE

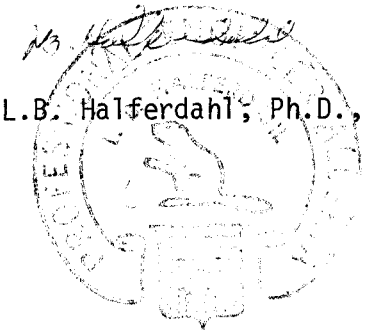
6.1 Access Trail Construction

A trail about 670 m long, part of the way to the drillsites was constructed on claims Wen 2-4 by means of a D9 bulldozer (Fig. 4.1) in September 1982. Some of the lower part of this trail is along a track used by Alice Lake Mines in 1968, whereas the part past the switchback was constructed in 1982. This trail only encountered permafrost at its upper end and demonstrated the feasibility of constructing access trails on dry south-facing slopes along Burwash Creek.

6.2 Road Maintenance

In 1979, the road up Tatmagouche Creek was extended from the end of the old Besner workings in its canyon to the top of the canyon by others. This road up Tatamagouche Creek was used extensively by placer miners in 1980, but has not been maintained since. By the early summer of 1983, about 100 m which had washed out on claim Jo 8 were repaired by means of a 980 loader. Shortly thereafter, two floods in July necessitated much more extensive repairs and the rerouting of about 500 m of the road on claims Wen 7 and Jo 8 (Fig. 4.1.) by D9 bulldozers and 980 loaders, as this became the only route into Burwash Creek for part of the summer of 1983.

Respectfully submitted,



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1983 09 09

SECTION 7.0 REFERENCES

Bissonnette, R. and Halferdahl, L.B. (1979) 1978 and 1979 exploration (geological, geochemical, geophysical, overburden drilling) of the Bur Property, Yukon Territory; Halferdahl & Associates Ltd., Edmonton, 29 p., 9 appendices, 33 fig., company report submitted for assessment work.

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_____ (1981a) 1980 geochemical and geological exploration of part of the Bur property, Yukon Territory; Halferdahl & Associates Ltd., Edmonton, 8 p., 10 fig., 6 appendices, company report submitted for assessment work.

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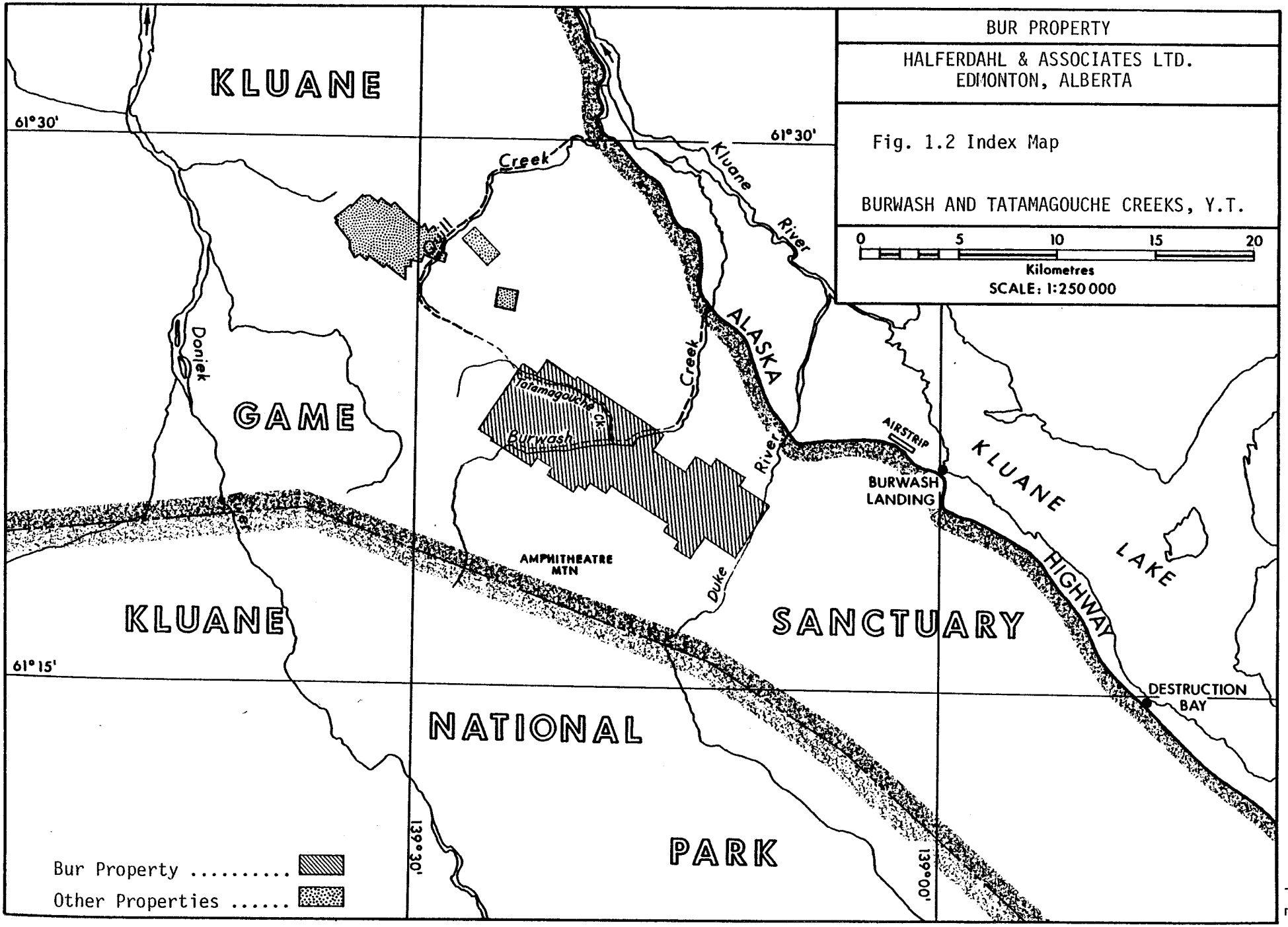
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Read, P.B. and Monger, J.W.H. (1976) Geology and mineral deposit maps of Kluane and Alsek Ranges, Yukon Territory (parts 115A, B, G), scale 1:50 000 and accompanying unedited report Pre-Cenozoic volcanic assemblanges of the Kluane and Alsek Ranges, south-western Yukon Territory; Geol. Surv. Can. Open file 381.



Fig 1.1 Location Map, Bur Property, Yukon Territory


BUR PROPERTY
HALFERDAHL & ASSOCIATES LTD.
EDMONTON, ALBERTA
Fig. 1.2 Index Map
BURWASH AND TATAMAGOUCHE CREEKS, Y.T.
0 5 10 15 20
Kilometres
SCALE: 1:250 000
KLUANE
GAME
SANCTUARY
NATIONAL
PARK
ALASKA
HIGHWAY
AIRSTRIP
BURWASH LANDING
DESTRUCTION BAY
KLUANE LAKE
AMPHITHEATRE MTN
Tatamagouche Cr.
Burwash
Creek
Kluane River
Donjek
Duke
61°30'
61°15'
139°30'
139°00'
Bur Property .....
Other Properties .....

F2

APPENDIX I: LITHOLOGICAL LOGS FOR DRILLHOLES

Bur Property, Burwash and
Tatamagouche Creeks, Yukon
Claim: Wen 5
Drillhole 82-1
Bearing: 102°
Inclination: -60°
Depth: 47.85 m
Core recovered: 25.355 m; 54.9%

Location: 10710 m N, 13360 m E
Elevation: 1240± 10 m (from 1:2000 topo map)
Drilled: 1982 09 11 to 1982 09 14
Drilled by Drilcor Industries Ltd.
Logged by L.B. Halferdahl
Core size: BQ
Casing: BW to 6.40 m, recovered

Purpose: To confirm the results of drillhole 81-5.

Notes: 1) The blocky nature of the hard, tough vitrophyric tuff in the upper part of this hole was very hard on bits. If drilled again, percussion drilling of this vitrophyric tuff should be considered.
2) Lost core has been arbitrarily assigned to the bottom of each drill run, unless the character of the core in a run indicates another location.

Metrage	Interval	Description
0- 5.77	5.77	Overburden; grey till and boulders
		0-2.13 m grey till
		2.13-5.77 m boulders of medium-grey tuff with 10-15% black grains to 2-3 mm in size set in lighter-grey matrix which contains quartz and feldspar grains to 2-3 mm in size and similar glassy fragments, some with white crystallites to ½ mm in size; all these minerals in finer sizes too, minor disseminated calcite, very sparse fine pyrite, few grains of pyrrhotite to 1 mm locally
		2.13-2.26 m bit of rust on few fracture surfaces
		3.66-4.54 m some feldspar with pale-bluish color resembling iridescence from peristerite; up to 1% disseminated chalcopyrite in lowest 20 cm; no pyrite with chalcopyrite
		5.18-5.77 m sparse chalcopyrite commonly associated with black minerals, no pyrite
5.77- 23.77	18.00	Vitrophyric rhyolite tuff, light- to medium-grey, 20-50% white crystallites from less than 0.1 mm to 1 mm in size, probably feldspar but some altered to calcite or possibly dolomite, in greyish glassy matrix, few fragments to 3 mm resembling shards, some bands greenish-grey, much core in irregular angular fragments
		6.00-6.08 m grading to rhyolite tuff with whitish mineral grains to ½ mm
		6.08-6.71 m 0.63 m lost core
		6.71-6.99 m few bands of whitish rhyolite tuff to 3-4 mm thick; few layers to 5 mm thick with cloudy very light purple-grey matrix instead of glassy matrix

Metrage	Interval	Description
	6.99-7.62 m	0.63 m lost core
	7.92-8.14 m	few cloudy layers of whitish rhyolite tuff to 1 cm thick with sparse disseminated pyrrhotite
	8.05 m	fracture at 45° to core axis with 5-10% scaly pyrite
	8.14-8.67 m	0.53 m lost core
	8.67-9.14 m	few layers of whitish rhyolite tuff, longitudinal fracture to 3 mm thick filled with calcite
	9.14-9.50 m	0.36 m lost core
	9.50-9.75 m	irregular banding
	9.75-10.30 m	few layers of whitish rhyolite tuff to 2-3 cm thick
	9.90-10.00 m	abundant calcite-filled fractures
	10.30-10.67 m	0.37 m lost core
	10.79-11.58 m	0.79 m lost core
	11.58-11.91 m	0.33 m lost core
	11.91-12.19 m	locally greenish-grey, some bands cloudy with light-purple-grey material, bit of rust on fracture surfaces, few single white grams to 1 mm in some layers, banding at 60° to core axis
	12.47-13.72 m	1.25 m lost core
	13.72-13.93 m	some banding at 85° to core axis
	13.93-14.63 m	0.70 m lost core
	15.02-15.24 m	0.22 m lost core
	15.41-16.76 m	1.35 m lost core
	17.03-17.68 m	0.65 m lost core
	17.68-18.21 m	few lighter and darker bands to 3 cm thick, at 85° to core axis with some bands at lower angles, possibly around volcanic bombs
	18.21-18.29 m	0.08 m lost core
	18.29-18.49 m	odd bit of rust on fractures
	18.49-18.59 m	0.10 m lost core
	18.71-19.20 m	0.49 m lost core
	19.86-20.73 m	0.87 m lost core
	21.88 m	sharp contact at 90° to core axis; light-grey above, dark-grey below

Metrage	Interval	Description

22.18-22.25 m 0.07 m lost core

22.25-22.63 m bands at 90° to core axis, few irregular whitish cracks to ½ mm wide, few dark-brown spots to 1 mm or so on fracture surfaces at 90° to core axis

22.69-22.80 m volcanic bombs: dark-grey calcarenite with interlocking grains to about 1 mm, few irregular layers to 3 mm thick and masses to 5 cm of aphanitic white tuff; upper contact of calcarenite with grey vitrophyric tuff sharp but sinuous to irregular; few grains of disseminated pyrite to 1 mm or so in calcarenite; fracture surface with thin discontinuous layer of pyrite and other sulfides; lower contact sharp but marked by angular white calcite masses to 5 mm or so in longest dimension with rusty material between; fracture ¼ mm thick more or less along lower contact partly filled with pyrite

SAMPLE 4249 22.69-22.80 m 0.11 m Au 2 ppb, Ag 0.1 ppm, Cu 24 ppm, Mo 1 ppm, Pb 6 ppm, Zn 73 ppm, Ni 6 ppm, Co 4 ppm, Mn 855 ppm, Cr 38 ppm, As 4 ppm, Sb 0.6 ppm, Ba 320 ppm, Hg 20 ppb

22.80-22.91 m irregular fractures from less than ½ to 2 mm wide filled with fine white quartz; 1-2% disseminated pyrrhotite in grains to 2 mm; some fragments of core with disseminated pyrrhotite spotted with whitish grains to ½ mm surrounded by glassy darker-grey matrix of irregular shape 2-3 mm in size free of fine white crystallites; locally such dark areas coalesce to form up to 30-40% of rock; some core fragments with thin discontinuous rusty coatings

22.91-23.05 m few bands of aphanitic white tuff up to 3 mm thick at 90° to core axis in grey and green-grey vitrophyric tuff

23.05-23.35 m few lapilli to 3 cm in size of spotted tuff described above, with sparse disseminated pyrrhotite, irregular whitish fractures to 2 mm or so wide filled with calcite, some with rust; fragments of tuff (grain size 2-3 mm) up to 5 cm in size

23.17 m calcite in tuff from few grains to 40%

23.35-23.49 m bit of disseminated pyrrotite in few fragments of core

SAMPLE 4250 22.80-23.49 m 0.69 m Au < 1 ppb, Ag 0.1 ppm, Cu 60 ppm, Mo 1 ppp, Pb 1 ppm, Zn 20 ppm, Ni 22 ppm Co 9 ppm, Mn 860 ppm, Cr 52 ppm, As 2 ppm, Sb 0.2 ppm, Ba 620 ppm, Hg 10 ppb

23.49-23.77 m 0.28 m lost core

Metrage	Interval	Description
23.77-29.26	5.49	Rhyolite tuff with minor interbedded vitrophyric rhyolite tuff, mostly crystallized, green-grey to dark-green-grey, less than 1% disseminated pyrrhotite in grains 1-2 mm in size, locally distinct wavy bands, whitish fragments or grains to 2 or 3 mm in size some partly or wholly calcitic; few irregular calcite-filled stringers to 1 mm wide; few irregular aphanitic whitish laminar masses to 3-4 mm thick by 2-3 cm long
		23.92-24.08 m irregular whitish lapilli of grain size to 1 mm, mostly 2-5 mm but up to 10 mm in size comprising perhaps 10% of rock
		23.98 m less than 1% pyrite in grains less than ¼ mm in interval 2-3 cm thick
		SAMPLE 4080 23.77-24.08 m 0.31 m Au trace, Ag 0.16 oz/ton (5.5 ppm)
		24.08-24.60 m calcitic, mottled whitish-grey and dark-grey masses 2-3 mm or more in size, perhaps 1% disseminated pyrite some in euhedral grains to 3 mm or so, 1-2% of grains less than 0.1 mm of green mineral in aggregates to 5 mm to form pale-green areas on freshly broken surface; indistinct layering at 86° to core axis, few irregular calcite-filled cracks to ¼ mm wide; less pyrite from 24.17-24.30 m; more calcitic parts are whiter in layers with relatively sharp but irregular lower contact with darker-green-grey tuff with 10-20% of disseminated whitish grains of calcite to 2-3 mm in size; up to 1% disseminated pyrite in three layers 1-2 cm thick; few irregular fractures to ½ mm wide with discontinuous pyrite
		24.43 m 1-4% disseminated pyrrhotite in aggregates to 3 mm in darker-grey tuff
		SAMPLE 4081 24.08-24.60 m 0.52 m Au trace, Ag 0.12 oz/ton (4.1 ppm)
		24.60-24.99 m 0.39 m lost core
		24.99-25.30 m dark- and light-grey in indistinct layers 2-3 cm thick with variable grain size, calcite from 1-2% to 40-50%, 2-3% disseminated pyrrhotite in grains to 2-3 mm
		25.15-25.18 m vitrophyric tuff with irregular discontinuous fractures to ¼ mm wide filled with sulfides, minor calcite some in fractures, less than 1% very fine sulfides
		SAMPLE 4082 24.99-25.30 m 0.31 m Au trace, Ag 0.16 oz/ton (5.5 ppm)
		25.30-26.52 m 1.22 m lost core

Metrage	Interval	Description

26.52-26.61 m medium-grey, with lapilli, non-calcitic, irregular black-coated fractures, less than 1% sulfides as discontinuous coatings of fractures and tiny grains on fractures and disseminated throughout, few calcite-filled fractures, distinctly laminated

26.61-26.65 m gradational contact through 2 cm with dark-grey lapilli tuff above and lighter-grey calcitic tuff below; black coatings on surface of calcitic tuff; lower contact at 26.65 m also gradational through 1 cm with perhaps 10% disseminated pyrrhotite at 26.65 m and decreasing through 1 cm, some chalcopyrite associated with pyrrhotite

26.72 m 5-10% disseminated pyrrhotite in medium-grained tuff, only minor calcite, fractures coated black some with pyrrhotite

SAMPLE 4083 26.52-26.82 m 0.30 m Au trace, Ag 0.10 oz/ton (3.4 ppm)

26.82-26.90 m whitish-grey, very hard and tough; some greyer and vitrophyric

26.90-27.43 m 0.53 m lost core

27.43-27.49 m with lapilli, grey-green, some fragments of vitrophyric tuff, irregular laminae, white grains to 1-2 mm in greyer matrix, rust on fracture surfaces with few grains of very fine pyrite

SAMPLE 4084 26.82-26.80 m and 27.43-27.49 m 0.14 m Au 79 ppb, Ag 0.2 ppm, Cu 17 ppm, Mo 1 ppm, Pb 5 ppm, Zn 23 ppm, Ni 25 ppm, Co 5 ppm, Mn 630 ppm, Cr 74 ppm, As 3 ppm, Sb 1.8 ppm, Ba 140 ppm, Hg 10 ppb

27.49-28.04 m 0.54 m lost core

28.04-28.14 m about 30% calcite, contact with lapilli tuff above at 78° to core axis, white and green-grey, minor pyrite on fracture surfaces along with more abundant black coatings, few cubic pyrite crystals to 2 mm in white tuff but none visible in grey tuff

28.14-28.35 m 0.21 m lost core

28.35-28.46 m calcitic, mostly grey, some disseminated pyrite in cubic grains; one clot of pyrite to 5 mm along a calcite-filled fracture; some fragments of vitrophyric tuff

Metrage	Interval	Description
		SAMPLE 4085 28.04-28.14 m and 28.35-28.46 m 0.21 m Au trace, Ag 0.06 oz/ton (2.1 ppm)
		28.46-29.26 m 0.80 m lost core
29.26-29.57	0.31	Fault gouge?, dark-greenish-black; crumbly cylindrical cores wash away irregularly to clayey material; breakable in bare hands, some fragments compact and slickensided, not so dark-grey in interior
		SAMPLE 4086 29.26-29.48 m 0.22 m Au trace, Ag 0.08 oz/ton (2.7 ppm)
		29.48-29.57 m 0.09 m lost core
29.57-32.92	3.35	Rhyolite tuff, various shades of grey, locally calcitic
		29.57-29.71 m whitish-grey, with lapilli and fragments of limestone, dolomitic, calcitic, rust on fracture surfaces with sulfides, locally dark-grey and non-calcitic
		29.71-29.85 m dark-grey, 30-40% calcite, up to 5-10% disseminated pyrite in grains to 1 mm but mostly smaller
		SAMPLE 4087 29.57-29.85 m 0.28 m Au trace, Ag 0.06 oz/ton (2.1 ppm)
		29.85-30.18 m 0.33 m lost core
		30.18-30.42 m dark-grey and coarser-grained and light-grey and finer-grained with contact between at 90° to core axis; less than 1% disseminated pyrite in cubes to 1 mm, except for a clot 2 cm in size with 20% pyrite cubes; 10-20% calcite decreasing to 5% in some layers; abundant pyrite locally in calcite-filled fractures; pyrite more abundant in places with more calcite
		SAMPLE 4088 30.18-30.42 m 0.24 m Au trace Ag 0.02 oz/ton (0.7 ppm)
		30.42-30.48 m 0.06 m lost core
		30.48-30.88 m dark-grey, about 10% calcite, few per cent disseminated pyrite and pyrrhotite, rust and black coating on fracture surfaces, 1-cm thick layer with 20% or more pyrite in cubes mostly to 1 mm or so in size; local layers devoid of calcite and pyrite but with whitish spots ¼ mm or so in size surrounded by clear dark-grey glassy matrix ½ mm thick and then light-grey vitrophyric tuff with numerous tiny white crystallites; sulfides in calcite-filled fractures

Metrage	Interval	Description
		SAMPLE 4089 30.48-30.88 m 0.40 Au trace, Ag trace
		30.88-31.12 m dark-grey, similar to interval above but with less calcite; layers few cm thick with 5-10% pyrrhotite in grains less than ½ mm in size, pyrite and calcite along some fractures, others with rusty surfaces
		SAMPLE 4090 30.88-31.12 m 0.24 m Au trace, Ag trace
		31.12-32.00 m 0.88 m lost core
		32.00-32.84 m dark-grey non-calcitic bands with 10% fine pyrrhotite, minor pyrite in conspicuous clumps and along calcite-filled fractures alternating with light-grey calcitic bands with very minor disseminated pyrite, gradational contact between ~2 cm wide; 1% disseminated pyrite to ½ mm in size in bottom 10 cm in whitish calcitic tuff; thin black coating on fractures with or without rust
		SAMPLE 4091 32.00-32.84 m 0.84 m Au trace, Ag trace
		32.84-32.92 m 0.08 m lost core
32.92-36.705	3.785	Crystal tuff, medium- to dark-grey, mass of about equal proportions of white and dark mineral grains to 1 mm or so in size mostly with flat surfaces - either crystal faces or cleavage, few per cent disseminated calcite, sparse grains of disseminated pyrite to ½ mm decreasing downhole, fracture surfaces locally rusty
		33.13-33.16 m light-grey vitrophyric tuff, no sulfides
		SAMPLE 4092 32.92-33.74 m 0.82 m Au trace, Ag trace
		33.74-33.83 m 0.09 m lost core
		33.83-34.35 m similar to previous but with very sparse calcite, somewhat more pyrite but less than 1%
		34.09 m gradational contact 5 mm wide with bomb? of lighter buff-green-grey sparsely calcitic pyrite-bearing vitrophyric tuff with about 10% dark spots to 3 mm in size, at 12° to core axis
		34.13 m contact at 12° to core axis
		34.13-34.24 m earthy friable dirty grey-brown-white material, lower contact at 50° to core axis, irregularly veined with white calcite and aphanitic white siliceous material to 5 mm wide, 1-2% pyrite cubes to ½ mm locally
		34.24-34.35 m finer-grained with 1-2% fine pyrite
		SAMPLE 4093 33.83-34.35 m 0.52 m Au trace, Ag 0.06 oz/ton (2.1 ppm)
		34.35-34.47 m 0.09 m lost core
		34.47-35.05 m slight rust on fracture surfaces, variable amounts of disseminated pyrite less than 1%

Metrage	Interval	Description
		SAMPLE 4094 34.47-35.05 m 0.58 m Au trace, Ag trace
		35.05-35.85 m very sparse calcite, less than 1% uniformity disseminated pyrite in grains less than 1 mm
		SAMPLE 4095 35.05-35.85 m 0.80 m Au trace, Ag 0.16 oz/ton (5.5 ppm)
		35.85-36.27 m 0.43 m lost core
		36.27-36.35 m volcanic bomb of light- and dark-grey vitrophyric tuff with contact between at 45° to core axis, about 1% disseminated pyrite, calcite-filled fractures to ½ mm
		36.46-36.65 m bomb? of light-grey vitrophyric tuff, locally pyritic
		SAMPLE 4096 36.27-36.65 m 0.38 m Au trace, Ag 0.14 oz/ton (4.8 ppm)
		36.65-36.68 m 5-10% pyrite in grains and aggregates to 2-3 mm in size; very slightly calcitic except for calcite-filled fractures
		36.68 m sharp contact at 70° to core axis
		36.68 -36.705 m massive sulfides: pyrite similar to above, less chalcopyrite in grains and aggregates to 5 mm, and a soft dark-brownish mineral with steely-grey streak; irregular lower contact
36.705-37.32	0.615	Vitrophyric rhyolite tuff, lighter-grey, coarser whiter crystals to 3 mm and up to 50% of rock, rusty fracture surfaces and cracks, sparse calcite along cracks
		36.705-36.73 m irregular stringers of massive sulfides from less than ½ mm to 3-4 mm, local rusty patches
		SAMPLE 4097 36.65-36.73 m 0.08 m Au trace, Ag 0.22 oz/ton (7.5 ppm)
		36.73-36.93 m sparse pyrite along fracture but not disseminated; darkish-green locally in grey matrix
		SAMPLE 4098 36.73-36.93 m 0.20 m Au trace, Ag 0.28 oz/ton (9.6 ppm)
		36.93-37.29 m free of rust, minor disseminated pyrrhotite in grains less than ½ mm in size, few grains of calcite, calcite-filled fractures ¼-½ mm thick, few areas with dark-green chlorite-like specks producing general greenish color, few clots of pyrrhotite to 3 mm associated with aphanitic white blobs to 1 cm in size, odd fracture filled with pyrite

Metrage	Interval	Description
		SAMPLE 4099 36.93-37.29 m 0.36 m Au trace, Ag 0.12 oz/ton (4.1 ppm)
		37.29-37.32 m 0.03 m lost core
37.32-38.80	1.48	Altered tuff, light-buff, earthy fragments, volcanic bomb?
		SAMPLE 4100 37.32-37.62 m 0.30 m Au 7 ppb, Ag 0.1 ppm, Cu 39 ppm, Mo 1 ppm, Pb 1 ppm, Zn 88 ppm, Ni 83 ppm, Co 20 ppm, Mn 1160 ppm, Cr 184 ppm, As 6 ppm, Sb 0.6 ppm, Ba 440 ppm, Hg 50 ppb
		37.62-38.71 m 1.09 m lost core
38.80-40.63	1.83	Crystal tuff, medium-grey, moderately soft, friable, calcite disseminated and along fractures, rusty-brown material on fractures and tiny specks of cinnabar-red-colored material along fractures
		39.00 m prominent fracture at 62° to core axis
		39.31-39.69 m brecciated rubble, fragments in clayey mass
		SAMPLE 4151 38.71-39.69 m 0.98 m Au 3 ppb, Ag 0.1 ppm, Cu 70 ppm, Mo 1 ppm, Pb 1 ppm, Zn 56 ppm, Ni 122 ppm, Co 31 ppm, Mn 1250 ppm, Cr 300 ppm, As 15 ppm, Sb 0.1 ppm, Ba 240 ppm, Hg 20 ppb
		39.93-40.63 m dark-grey, fresh, similar to 32.92-36.705 m sparse disseminated calcite and less disseminated pyrite in grains less than ½ mm, very indistinct lighter and darker bands 3-4 mm thick at 90° to core axis, grain size to 1 mm or so decreasing at base
		SAMPLE 4152 39.93-40.63 m 0.70 m Au < 1 ppb Ag 0.1 ppm, Cu 78 ppm, Mo 2 ppm, Pb 1 ppm, Zn 50 ppm, Ni 230 ppm, Co 39 ppm, Mn 1150 ppm, Cr 530 ppm, As 24 ppm, Sb 0.1 ppm, Ba 440 ppm, Hg 10 ppb
40.63-45.38	4.75	Rhyolite tuff, light-whitish-grey, interlocking mass of 60-98% fine white subhedral and anhedral crystals increasing in amount downhole in vitreous matrix, very sparse pyrite in grains less than ½ mm and for 2-3 cm along fractures 2 mm wide increasing downhole with some in cubes ¼ mm or larger, minor disseminated pyrrhotite in upper part but up to 2% or so in bands 2-3 cm thick, pyrite in fractures more abundant where pyrrhotite disseminated through rock; local fractures with trace of greenish chloritic material, calcite-filled fractures to ½ mm, local black or dark-brown material discontinuously on joint surfaces; layering at about 85° to core axis

Metrage	Interval	Description

SAMPLE 4153 40.63-40.76 m and 41.15-41.63 m 0.60 m Au trace, Ag 0.20 oz/ton (6.9 ppm)

40.76-41.175 m 0.39 m lost core

SAMPLE 4154 41.63-41.92 m 0.29 m Au trace, Ag 0.08 oz/ton (2.7 ppm)

41.92-42.02 m 5-10% disseminated sulfides to ½ mm in size with two-thirds pyrrhotite and one-third pyrite, banding at 90° to core axis, similar abundant sulfides downhole in layers 2-3 cm thick, one grain of chalcopyrite

41.92-42.67 m fracture surfaces coated dark-brown even black, some with 10% or more pyrite in discontinuous films to ½ mm thick, disseminated sulfides very sparse or absent in lowest 15 cm

SAMPLE 4155 41.92-42.67 m 0.75 m Au trace, Ag 0.14 oz/ton (4.8 ppm)

42.67-43.28 m some layers with disseminated pyrrhotite, some without, very fine disseminated pyrite in layers above those with pyrrhotite

42.82-42.87 m somewhat coarser-grained layer with very finely disseminated pyrite at 90° to core axis; greenish chloritic areas

43.04 m minor disseminated chalcopyrite

43.12 m contact between layers at 85° to core axis with finer-grained lighter-grey with very finely disseminated pyrite below

SAMPLE 4156 42.67-43.28 m 0.61 m Au trace, Ag 0.04 oz/ton (1.4 ppm)

43.36-43.39 m very light-buff-grey layer at 85° to core axis

43.45 m about 1% disseminated pyrrhotite

43.50 m 10-20% thin discontinuous pyrite coating on fracture surface with black material

43.53-43.59 m 0.06 m lost core

43.62 m pyrrhotite aggregates to 15 mm long by 5 mm wide at top of slightly coarser-grained layer with disseminated pyrite above

SAMPLE 4157 43.28-43.53 m and 43.59-43.98 m 0.64 m Au trace, Ag trace, Ag 0.12 oz/ton (4.1 ppm)

Metrage	Interval	Description
		43.98-44.50 m light-grey, 1% disseminated pyrrhotite, some rust on fractures which also show irregular spots of sulfides with green iridescence; pyrite spots with rust on some fractures, pyrite also associated with some disseminated pyrrhotite, much less pyrite than uphole, but pyrrhotite more abundant and regularly distributed not restricted to certain layers
		44.18 m pyrrhotite very scarce, almost absent downhole, less pyrite and rust on fracture surfaces
		44.40 m disseminated pyrrhotite to bottom of interval
		SAMPLE 4158 43.98-44.50 m 0.52 m Au trace, Ag 0.04 oz/ton (1.4 ppm)
		44.50-44.84 m sparser sulfides; thin earthy brown rust on joint surfaces
		44.70-44.84 m mottled with buff, no sulfides visible
		SAMPLE 4159 44.50-44.84 m 0.34 m Au trace, Ag 0.14 oz/ton (4.8 ppm)
		44.84-44.96 m grain size about 1 mm, 2-5% pyrrhotite, less pyrite, odd grain of chalcopyrite
		44.96-45.11 m 0.15 m lost core
		45.11-45.38 m few green chloritic? patches
		45.20-45.30 m up to 20% pyrrhotite in aggregates to 10-15 mm in size; few aggregates of chalcopyrite
		45.30-45.38 m 5-10% very fine disseminated sulfides: pyrrhotite and less pyrite?, pyrite along fractures to ½ mm
		SAMPLE 4160 44.84-44.96 m and 45.11-45.38 m 0.39 m Au trace, Ag 0.08 oz/ton (2.7 ppm)
45.38-47.85	2.47	Vitrophyric rhyolite tuff, light-grey, 20-30% white crystals less than ½ mm in size in glassy matrix, 1-2% pyrrhotite in few intervals of 1 cm or so, very sparse chalcopyrite, few indistinct and irregular darker-grey bands at 85° to core axis; very hard and tough
		SAMPLE 4161 45.38-45.63 m 0.25 m Au trace, Ag 0.20 oz/ton (6.9 ppm)
		45.63-46.63 m 1.00 m lost core
		46.63-46.80 m rubble of vitrophyric tuff similar to previous but with more consistant 1% disseminated pyrrhotite; odd piece of dark-grey crystal tuff; few slightly rusty fracture surfaces

Bur Property, Burwash and Tatamagouche Creeks, Yukon — Page 12
Drillhole 82-1

Metrage	Interval	Description
	46.80-46.93 m	0.13 m lost core
	46.93-47.21 m	rubble as previous, some fragments with up to 5% finely disseminated pyrrhotite; few darker-grey bands at 85° to core axis, one pyrite-filled fracture ½ mm wide
	SAMPLE 4162	46.63-46.80 m and 46.93-47.21 m 0.45 m Au trace, Ag 0.16 oz/ton (5.5 ppm)
	47.21-47.85 m	0.64 m lost core
47.85	End of hole	

DRILL RUNS

Run		Recovery (m)	Character
Box 1 1.68-10.67 m			
1.68-2.13 m	(5½'-7')	0.49	pieces to 12 cm - most fit; rubble in lowest 14 cm
2.13-3.05	(7'-10')	0.19	mostly rubble with pieces to 7 cm
3.05-3.35	(10'-11')	0.16	all rubble - pieces to 2 cm
3.35-3.66	(11'-12')	0.19	all rubble - pieces to 3 cm
3.66-5.18	(12'-17')	0.88	top 36 cm - all rubble with pieces to 3 cm; below pieces to 16 cm - most fit
5.18-6.71	(17'-22')	0.90	mostly rubble - one piece to 10 cm
6.17-7.62	(22'-25')	0.28	all rubble - maximum length 5 cm
7.62-7.92	(25'-26')	0.30	mostly rubble - one piece 8 cm
7.92-8.23	(26'-27')	0.22	middle 16 cm - 2 fitting pieces 12 and 4 cm; rest rubble
8.23-9.14	(27'-30')	0.46	mostly rubble, some fits in lower 2/3 with pieces to 7 cm
9.14-9.75	(30'-32')	0.25	rubble in upper half, pieces to 7 cm below without fits
9.75-10.67	(32'-35')	0.55	all rubble, pieces to 3 cm
		4.87	

DRILL RUNS CONTINUED

Run		Recovery (m)	Character
Box 2 10.67-22.25 m			
10.67-11.58 m	(35'-38')	0.12	all rubble
11.58-12.19	(38'-40')	0.28	rubble in upper half; below pieces to 7 cm-all fit
12.19-13.72	(40'-45')	0.28	all rubble with pieces to 2 cm
13.72-14.63	(45'-48')	0.21	rubble with pieces to 6 cm
14.63-15.24	(48'-50')	0.39	pieces to 7 cm with few fits in upper half; all rubble below
15.24-16.76	(50'-55')	0.17	piece to 8 cm - no fits
16.76-17.68	(55'-58')	0.27	all rubble with pieces to 6 cm
17.68-18.29	(58'-60')	0.53	pieces to 7 cm with some fits in upper 2/3; angular rubble below
18.29-18.59	(60'-61')	0.20	mostly rubble with longest piece 7 cm
18.59-19.20	(61'-63')	0.12	all rubble with longest piece 5 cm
19.20-20.73	(63'-68')	0.66	all rubble with longest piece 4 cm
20.73-22.25	(68'-73')	1.45	pieces to 10 cm with few fits; about half rubble
		4.68	
Box 3 22.25-32.00 m			
22.25-23.77 m	(73'-78')	1.24	22.25-22.53 m pieces 1-6 cm - all fit 22.53-22.61 m rubble with pieces to 3 cm 22.61-22.91 m pieces to 9 cm - fit in lowest 21 cm; rubble above 22.91-23.05 m pieces to 8 cm - all fit 23.05-23.35 m pieces to 14 cm - all fit 23.35-23.49 m pieces to 3½ cm - rubble
23.77-24.08	(78'-79')	0.31	23.77-23.88 m pieces to 10 cm - all fit 23.88-23.92 m rubbles - pieces to 3 cm 23.92-24.08 m pieces to 16 cm - all fit
24.08-24.99	(79'-82')	0.52	24.08-24.56 m pieces to 11 cm - all fit; balance rubble with pieces to 4½ cm
24.99-26.52	(82'-87')	0.31	one piece to 9 cm; rest rubble with pieces to 4½ cm
26.52-26.82	(87'-88')	0.30	26.52-26.69 m pieces to 8 cm - all fit; rubble in lowest 7 cm
26.82-27.43	(88'-90')	0.08	pieces to 2½ cm - all rubble
27.43-28.04	(90'-92')	0.06	pieces to 4 cm - all rubble
28.04-28.35	(92'-93')	0.10	two pieces: 2½ and 7½ cm - do not fit
28.35-29.26	(93'-96')	0.11	pieces to 2 cm - all rubble
29.26-29.57	(96'-97')	0.22	two pieces 11 cm each - fit
29.57-30.18	(97'-99')	0.28	pieces to 3½ cm - all rubble
30.18-30.48	(99'-100')	0.235	pieces to 8 cm - all fit
30.48-32.00	(100'-105')	0.64	30.48-30.85 m pieces to 9 cm - mostly fit; balance rubble with pieces to 6 cm
		4.405	

DRILL RUNS CONTINUED

Run		Recovery (m)	Character
Box 4 32.00-37.32 m			
32.00-32.92	(105'-108')	0.84	32.00-32.45 m pieces to 8 cm - mostly fit; balance rubble
32.92-33.83	(108'-111')	0.82	32.92-33.36 m pieces to 9 cm - mostly rubble 33.36-33.75 m pieces to 17 cm - all fit
33.38-34.44	(111'-113')	0.52	pieces to 7 cm - all fit except rubble in lowest 8 cm
34.44-35.05	(113'-115')	0.58	pieces to 6½ cm - all fit except top 6 cm
35.05-36.27	(115'-119')	0.80	pieces to 13 cm - mostly fit but rubble 35.05-35.07 m, 35.38-35.40 m, 35.82-35.85 m
36.27-38.71 m	(119'-127')	1.33	36.27-36.38 m pieces to 5 cm - all rubble 36.38-36.48 m pieces to 2 cm - all rubble 36.48-36.75 m pieces to 8 cm - some fit 36.75-36.85 m pieces to 4 cm - all rubble 36.85-37.32 m pieces to 7 cm - most fit 37.32-37.62 m pieces to 3 cm - mostly earthy rubble
		4.89	
Box 5 37.32-44.33 m			
38.71-39.93	(127'-131')	0.98	partly pieces to 11 cm with few fits; partly rubble
39.93-41.15	(131'-135')	0.83	39.93-40.32 m pieces to 10 cm - most fit; rest rubble with one piece to 10 cm
41.15-42.67	(135'-140')	1.53	41.15-41.62 m pieces to 16 cm - most fit 41.62-41.89 m pieces to 6 cm - mostly rubble 41.89-42.67 m pieces to 19 cm - most fit
42.67-43.28	(140'-142')	0.60	pieces to 15 cm - most fit
43.28-43.59	(142'-143')	0.25	top piece with upper ground end; in middle-two fitting pieces 7-8 cm long each; rest rubble
		4.19	
Box 6 44.33-47.85 m			
43.59-44.50	(143'-146')	0.91	pieces to 11 cm - most fit
44.50-45.11	(146'-148')	0.46	top pieces with upper round end; other pieces to 6 cm - about half fit; rest rubble
45.11-46.63	(148'-153')	0.50	45.11-45.44 m pieces to 14 cm - all fit; rest rubble
46.63-46.93	(153'-154')	0.17	pieces to 3 cm - all rubble
46.93-47.85	(154'-157')	0.28	pieces to 5½ cm - all rubble
		2.32	
46.17	(151½')	25.355	

Recovery = $\frac{25.355}{46.17} \times 100 = 54.92\%$

Bur Property, Burwash and
Tatamagouche Creeks, Yukon
Claim: Jo 6
Drillhole 82-2
Bearing: 102°
Inclination: 0 m -65°
72.24 -71°
85.34 -71°
137.46 -71°

Location: 10790 m N, 13175 m E
Elevation: 1300± 10 m (from 1:2000 topo map)
Drilled: 1982 09 14 to 1982 09 19
Drilled by Drilcor Industries Ltd.
Logged by M.T. Alexander and L.B. Halferdahl
Core size: BQ
Casing: BW to 2.74 m recovered
Depth: 139.60 m
Core recovered: 118.14 m; 86.3%

Purpose: To penetrate the base of the magnetitic peridotite sill and to intersect the tuffs below to confirm the results from drillhole 81-5. 82-2 was abandoned short of its planned depth when one corner of the cribbing for the platform sank in the permafrost, causing the rods to stick, and requiring pulling of the casing to free the rods.

Notes: 1) At 27.74 m, the drill was down for 29½ h. During this time, the hole froze and had to be reamed free of ice before coring could continue.
2) Metrages and intervals have been adjusted to give arbitrary best fit with the drill runs.

Metrage	Interval	Description
0.00-2.74	2.74	Overburden, permafrost in grey clayey till in upper part 2.74-3.24 m boulders of magnetitic peridotite and tuff
2.74-36.07	33.33	Magnetitic peridotite, massive, dark-grey to black, grain size about 1 mm except as noted, 70-80% cumulate euhedral to subround olivine crystals with interstices filled with white minerals up to 2-3 mm in size, some with pale green borders or narrow black outlines (fine magnetite?) separating them from olivine cumulates, up to 10 to 25% poikilitic glassy feldspar crystals to 1-3 cm in size, up to 5% reddish-brown mica in aggregates up to 3-4 mm in size, finely disseminated magnetite locally more concentrated along veinlets to 1 or 2 mm wide, mostly less than 1% disseminated interstitial pyrrhotite but locally concentrated up to 3-5% in layers up to a few centimetres thick, and increasing to 2% downhole, locally serpentinized, many fractures coated with serpentine with or without calcite and locally slickensided, rubble where serpentinization extensive 5.46-5.56 m highly serpentinized shear zone at 44° 6.82 m magnetite-rich band 1 mm thick at 25° 7.14 m highly serpentinized fracture at 25° 7.17-8.53 m 0.98 m of lost core within interval 9.03 m highly serpentinized fracture at 12° 9.75 m highly serpentinized fracture with slickensides at 12° 10.70-11.03 m highly fractured with coatings of carbonate and serpentine to 1 mm thick on some pieces

Metrage Interval	Description
	11.03-11.83 m more magnetic than uphole
	11.32-11.38 m serpentinized shear zone with some asbestos in cracks 4 cm long by 1 mm wide - upper contact at 35° and lower at 25°, true thickness 2-3 cm with prominent slickensides at 15°
	12.00 m 0.11 m lost core arbitrarily placed at lower end of run
	14.04 m calcite to 3 mm on curved serpentinized fracture varying from 20° to 0° to 10° to core axis with slickensides
	13.98-15.40 m serpentinized spots increase downhole from 5-15%; minor pyrrhotite
	16.12 m layer 2-4 cm thick with 2% pyrrhotite as irregular intergranular fillings from ¼ to 1¼ mm in size at 60° to core axis
	16.20 m serpentinized fracture at 15° with altered zone 1-2 mm thick with magnetite, ½% pyrrhotite, and minor reddish hematite-like material
	16.35-16.41 m serpentinized zone rich in magnetite
	16.64 m layer with perhaps 1% pyrrhotite at 60° to core axis
	17.31 m layer with pyrrhotite and chalcopyrite 4:1 ratio at about 60°
	17.42 m serpentine 1 mm thick on fracture at 62°
	17.47-17.74 m serpentinization up to 35%
	17.75-17.97 m zone of fractures and shears, upper fracture at 17° with slickensides at 30° from core axis in fracture plane, lower fracture at 40° with slickensides at 45° from core axis in fracture plane; other fractures 10°-70° to core axis; some with asbestos, and little or no carbonate except for 7 mm of fault gouge at 17.81 m with 5% carbonate, gouge plane angle 17° to core axis; serpentinized areas more magnetic than unserpentinized areas
	17.97 - 18.26 m scattered specks of chalcopyrite
	18.26-20.06 m irregular interstitial patches 0.1-½ mm in size of soft maleable reddish mineral alone or associated with chalcopyrite or pyrrhotite

Metrage Interval	Description
SAMPLE 4226	18.59-19.59 m 1.00 m Au 0.003 oz/ton (103 ppb), Ag 0.02 oz/ton (0.7 ppm), Cu 150 ppm, Ni 1140 ppm, Co 86 ppm, Pt < 50 ppb, Pt 25 ppb
	20.06-21.73 m about 50% serpentinized adjacent to fractures, very sparse disseminated chalcopyrite and pyrrhotite
	20.40 m light-colored serpentine 3 mm thick on fracture at 45°
	21.73-22.38 m locally serpentinized up to 90% average about 40%, increasing downhole, and becoming more magnetic
	22.38 m 0.15 m lost core arbitrarily placed at bottom of run
	22.53-23.21 m 0-20% serpentinized, sulfides to ½%
	22.55 m serpentine 2 mm thick on rough fracture at 25°
	22.91 m 1% sulfides in circular radiating spots to 1 mm in size on rough fracture at 60°
	23.21-24.67 m chalcopyrite and minor pyrrhotite increase from ½ to 1% and then decrease to ½% evenly across section
	24.79 m layer about 5 mm thick at about 65° to core axis with up to 3% sulfides, mostly chalcopyrite
	24.85-25.14 m well serpentinized shear zone, more magnetic, no sulfides
	25.23 m 0.14 m lost core arbitrarily placed at bottom of run
	25.37-26.34 m disseminated pyrrhotite and chalcopyrite from ½-2%, some patchy
	25.80 m serpentine 2 to 8 mm thick on fracture at 65°
	26.34-27.43 m less than ½% sulfides
	28.46 m disseminated pyrrhotite and chalcopyrite to 1%
	28.84 m serpentine 1½ mm thick on fracture at 70° with slickensides at 40°
	28.96 m 0.30 m lost core arbitrarily placed at bottom of run
	29.26-29.57 m many fragments in rubble with light-colored serpentine on fracture surfaces
	29.36 m light-colored serpentine 2 mm thick with 5% coarse calcite to 2 mm in size on fracture at 10°

Metrage	Interval	Description
		29.40 m very thin light-colored serpentine with 5% sulfides in patches to ½ mm in size on rough break
		29.43 m 0.14 m lost core arbitrarily placed at bottom of run
		29.98 m blue-green coated fracture with sparse sulfides
		30.32-30.61 m disseminated chalcopyrite and pyrrhotite about 1% of rock
		30.61 m 0.17 m lost core arbitrarily placed at bottom of run
		30.78-31.09 m 20% altered bands, serpentinized
		30.80 m very thin serpentine with light rusty-blue coating and 5% sulfides in patches to ½ mm on fracture at 25°
		31.09-32.00 m 1% disseminated pyrrhotite and chalcopyrite in grains to 0.1 mm
		31.49-31.59 m 1% disseminated sulfide on rough break
		31.59 m 0.41 m lost core arbitrarily placed at bottom of run
		32.00-32.74 m about ½% disseminated pyrrhotite, serpentinization increasing downhole to 100%
		32.05 m light-rusty-blue coating with 1% sulfide patches on 2 parallel breaks at 15°
		32.74-33.00 m dark-brown-green, intensely altered; core disintegrates in water or under pressure; 99% serpentine mixed with 1% calcite
		33.00-33.07 m brownish-olive-green-grey, 80% serpentinized, small pyroxenes unaltered, 2% disseminated sulfides in grains 0.1-0.3 mm, thin serpentine on fractures at 0°-90° to core axis averaging 60°
		33.07-33.53 m 0.46 m lost core
		33.53-33.73 m olive-green, serpentinized, numerous calcite-filled cracks 0.05-1.0 mm thick; downhole-lighter-colored, more fractured, altered, and friable, 1% finely disseminated pyrrhotite about 0.05 mm decreasing to almost nil downhole
		33.73-34.26 m light-olive-green, about 98% serpentine, 2% calcite, extremely friable, falls apart in water
		34.26-34.42 m light-olive-green, intensely serpentinized, numerous fractures with or without calcite to 1 mm
		34.42-35.36 m 0.94 m lost core

Metrage	Interval	Description
		35.36-35.93 m medium-olive-green and dark-olive-grey-green, serpentinization decreasing downhole to 35.86 m then abrupt increase, calcite-filled veins 0.1-1.0 mm thick 25% of rock decreasing to 1% downhole
		35.64 m calcite-filled fracture with lighter-colored serpentine 2-3 mm thick at 18°, 75-95% serpentine
		35.66-35.86 m disseminated sulfides about 0.05 mm in size—chalcopyrite? or pyrite?
		35.93 m well defined contact at 76°
		35.93-36.07 m black-green, serpentinized, grading down into light-greenish-grey rhyolite tuff
36.07-36.88	0.81	Rhyolite tuff, light-greenish-grey, mosaic of whitish grains up to ½ mm in size in 10-20% glassy? matrix, up to 10-20% disseminated calcite, calcite-filled fractures to ½ mm wide
		36.07-36.37 m mixed with up to 10% serpentine, crumbly, altered
		36.56-36.88 m 0.32 m lost core
36.88-37.39	0.51	Serpentinized magnetitic peridotite, black to dark-olive black, crumbly at top and bottom grading to well indurated in middle of interval, about 95% serpentine
		36.88-36.90 m 5% fragments of rounded tuff to 3 mm in size
		36.94-37.29 m cubic pyrite with calcite filling fractures as mats or crystals to ¼ mm in size, locally to 5%, locally up to ½% disseminated chalcopyrite
		SAMPLE 4227 36.94-37.29 m 0.35 m Au 0.002 oz/ton (69 ppb), Ag 0.02 oz/ton (0.7 ppm), Cu 244 ppm, Ni 1020 ppm, Co 92 ppm, Pt 55 ppb, Pd 20 ppb
37.39-40.91	3.52	Rhyolite tuff, as previous
		37.39-37.75 m light-green-grey and dark-olive-green to light-greenish-grey; altered with decreasing intensity to 37.75 m where rock is moderately strong; fragments of tuff with interstices filled with serpentine to 2 mm wide with serpentine in filling decreasing downhole; at top of interval rock falls apart in water

Metrage	Interval	Description
		37.91 m flat planar fracture at 15°, very sparse cubic pyrite in tiny grains on one fragment
		37.91-38.16 m more friable towards bottom
		38.16-39.84 m 1.68 m lost core
		39.84-39.93 m light-greenish-grey, greener on breaks, slightly calcareous, coatings of serpentine and calcite to 0.3 mm along fractures, local sparse pyrite in grains to ½ mm in lower part
		39.93-40.91 m light-grey to light-greenish-grey downhole
		39.93-40.42 m 0.1% disseminated pyrite some cubic and 1% as sheets of cubes on fracture surfaces, most abundant at 40.08 m
		SAMPLE 4228 39.93-40.42 m 0.49 m Au < 0.002 oz/ton (<69 ppm), Ag 0.02 oz/ton (0.7 ppm)
		40.42-40.91 m friability due to alteration increasing downhole, serpentine between granules increasing, more calcite, greener, calcite to ½ mm on fractures, very rare disseminated pyrite
40.91-41.11	0.20	Fault zone
		40.91-41.09 m grey-green gouge, talcose, 10-15% serpentine and rhyolite tuff to 1 mm and larger in size; tuff decreases and serpentine increases downhole
		41.09 m contact at 65°
		41.09-41.11 m medium-brown, serpentine gouge, 10-15% tuff in grains to 2 mm
		41.11 m contact at 65° parallel to contact at 41.09 m with irregular projection into lower section
41.11-42.00	0.89	Brecciated magnetitic peridotite, blackish subangular fragments ½-5 mm in size of partly serpentinized magnetitic peridotite in brownish-green serpentine matrix, few rusty fragments, crumbly
		41.43-41.76 m 0.33 m lost core
		41.84-42.00 m rusty stains on some fracture surfaces
		41.86 m fractures with slickensided coatings of dark serpentine at 88° and 30°
		41.97 m calcite vein 5 mm wide

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Drillhole 82-2

Metrage	Interval	Description
42.00-43.71	1.71	Magnetitic peridotite, yellowish-green-grey and olive black, altered, 50% pyroxene in round to subhedral grains ½ mm in size, and larger poikilitic grains to 4 mm, few per cent red mica, locally 70% serpentine, brownish serpentine on fractures; suspect core reversed from 42.00-42.48 m
		42.35 m band of brown clay-like serpentine 1 cm thick at 70°
		42.44-42.48 m less serpentinized, less than 1% very fine sulfides
		42.48-42.87 m weak, breaks easily
		42.68 m fracture with light-rusty or grey-brown clay-like material at 45°
		42.76 m fracture with 2-mm coating of greenish-grey clay-like material at 50°
		42.87-42.98 m 0.11 m lost core
		42.98-43.05 m altered and serpentinized above probably separated by fault from unaltered with white interstitial mineral below
		43.05-43.59 m 0.54 m lost core
		43.59-43.71 m brecciated, 70% fragments of altered magnetitic peridotite in greyish-green serpentine matrix
43.71-46.02	2.31	Grey tuff?, light-greenish-grey, heterogeneous jumble of clear glassy grains, milky white grains, and 10-20% dark minerals mostly to 1-2 mm in size but some to 4 mm or more, including feldspar lapilli, altered in upper part of interval
		43.71-44.17 m sparse chalcopyrite in grains to 2 mm in lower part
		44.17-44.50 m 0.33 m lost core
		44.50-45.84 m very scarce sulfides in lower part of interval
		SAMPLE 4229 45.24-45.84 m 0.60 m Au < 0.002 oz/ton (<69 ppb), Ag 0.03 oz/ton (1.0 ppm), Cu 196 ppm, Ni 169 ppm, Co 32 ppm, Pt < 50 ppb, Pd < 5 ppb
		45.84-46.02 m 0.18 m lost core
46.02-50.29	4.27	Magnetitic peridotite, similar to rock at top of hole but without large poikilitic feldspars, up to 20% serpentine, local calcite veins

Metrage	Interval	Description
		46.02-46.16 m 50-60% black magnetitic peridotite fragments up to 5 mm in size in grey-green sheared serpentinized matrix
		46.16-47.14 m up to 1% pyrrhotite and chalcopyrite with grain size increasing to ½ mm in lower part of interval
		47.14 - 47.24 0.10 m lost core
		47.24-47.77 m ½-3 or 4% sulfides in grains to ½ mm, mostly disseminated pyrrhotite but with minor chalcopyrite, possibly pentlandite, some on fracture surfaces which are numerous and coated with serpentine
		47.77-48.16 m 0.39 m lost core
		48.16-48.31 m sulfides as previous with smears on fracture surfaces
		48.31-48.77 m 0.46 m lost core
		48.84-49.07 m 0.23 m lost core
		49.07-49.71 m serpentinization increases towards bottom of interval
		49.34-49.41 m fractured zone
		49.54-49.71 m fractured zone with 2% calcite on fracture surfaces
		49.71-50.29 m 0.58 m lost core
50.29-53.48	3.19	Rhyolite tuff, light-grey almost white with greenish tint and greenish-grey spots, mostly milky white grains from 0.1-1 mm or more in size in 10-20% glassy matrix, also 10-30% clear glassy grains, about 10% pale-greenish smears and clumps to 5 mm or more in size, 10-20% locally to 30% calcite both disseminated and along hairline cracks, very sparse disseminated pyrite locally, up to 10% pyrite on one or two local fracture surfaces
		50.33 m contact between layers at 72°
		50.96 m first appearance of pyrite cubes octahedrons and massive in grains and aggregates 0.1-5 mm from 1-10% of fracture surfaces, also less than 1% in grains 0.05 mm disseminated
		51.15 m rough fracture with 5% calcite and 3% pyrite at 70°
		51.21 m rough fracture with 5% calcite and 3% pyrite at 35°

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Drillhole 82-2

Metrage	Interval	Description
		51.25-51.57 m pyrite as before, 5-10% of some fracture surfaces
		51.84 m two patches of pyrite 1 mm in size
		SAMPLE 4230 50.96-51.57 m 0.61 m Au < 0.002 oz/ton (< 69 ppm), Ag 0.02 oz/ton (0.7 ppm)
		51.86-52.43 m less than 1% disseminated pyrite and pyrite smears and patches to 1½ mm in size up to 5% of half fracture surfaces, dark lapilli up to 2 cm in size with random orientation
		52.33-52.34 m gouge at 60°, highly fractured
		52.37 m smooth planar fracture with calcite 1 mm thick and 5% pyrite at 65°
		SAMPLE 4231 51.86-52.43 m 0.57 m Au < 0.002 oz/ton (< 69 ppb), Ag 0.02 oz/ton (0.7 ppm)
		52.43-53.34 m 5% pyrite in small patches on scattered surfaces and much less than 1% disseminated
		52.97 m smooth planar fracture, minor calcite with 1% pyrite streaks on surface at 45°
		53.01-53.05 m breccia zone
		53.17-53.27 m breccia zone
		53.27-53.34 m 0.07 m lost core
		53.39 m smooth planar fracture completely coated with 1 mm of calcite and few pyrtie spots ¼ mm in size at 52°
		53.39 m smooth irregular fracture with quartz, 15% red mineral, and 5% pyrite at 35° with slickensides at 80° counter clockwise on uphole facing-surface
		53.40 m rough planar fracture with calcite 1 mm thick on 40% of surface with 3% pyrite smears and 7% red mineral smears at 10° with slickensides at 70° counterclockwise on uphole-facing surface
		53.46 m rough fracture with 50% of surface with calcite to 1 mm, 1% pyrite, 5% red mineral at 30° with slickensides at 85° clockwise on uphole-facing surface
		53.48 m sharp planar contact with lower tuff layer at 70°
53.48-53.92	0.44	Grey rhyolite tuff, similar to rhyolite tuff, but medium to dark-grey

Metrage	Interval	Description
		53.51-53.64 m 0.13 m lost core
		53.64-53.92 m 10-30% randomly oriented dark laths or rods to 1 mm or so long and 10-12 times long as wide somewhat like hornblende or possibly a paler-colored amphibole decreasing in amount of lowest 5-10 cm
53.92-54.92	1.00	Rhyolite tuff, similar to previous but possibly whiter in upper part of layer, perhaps more glassy matrix
		53.99 m indistinct layering at 65°
		53.99-54.86 m very sparse brittle silvery metallic mineral associated with resinous reddish mineral both in tiny grains in centre of interval, pyrite in cubes and mats increasing from 0% at 53.99 m to 5-10% at 54.42 m and decreasing to 0° at 54.86 m all on fractures, ½% disseminated pyrite in cubes to 2 mm near 54.48 m
		54.16-54.46 m fractures with 2-5% pyrite
		SAMPLE 4232 54.15-54.65 m 0.5 m Au<0.002 oz/ton (<69 ppb), Ag<0.02 oz/ton (<0.7 ppm)
54.92-61.87	6.95	Magnetitic peridotite, similar to previous, partly serpentinized
		54.92-55.06 m pyrite in cubes and octahedrons to 1 mm in size singly and as mats comprising up to 10% on calcite-coated fractures 1 mm wide, amount of pyrite varies quickly, many irregular fractures
		54.92-55.24 m numerous fractures with calcite with specific fractures to follow:
		54.97 m rough coated with 1 mm of calcite and 7% pyrite at 25°
		55.02 m very rough 50% coated with thin calcite and 2% pyrite at 50°
		55.24-55.47 m 0.23 m lost core
		55.47-56.54 m very sparse pyrrhotite in tiny grains mostly in upper quarter
		56.07 m rough fracture with 3 mm of serpentine at 75°
		56.10-56.22 m fracture to 1½ mm at bottom serpentinized at 70°-30°

Metrage	Interval	Description
		56.54-56.69 m 0.15 m lost core
		56.69-58.22 m variable amounts of serpentinization, up to ½% pyrrhotite and less chalcopyrite; one patch ¼ mm in size
		56.72 m planar fracture with serpentine 1½ mm thick at 25°
		57.54 m fracture with 1-2 mm of serpentine with up to 5% thin calcite at 38° with slickensides at 10° clockwise on downhole-facing surface
		57.73 m planar fracture with 1-2 mm serpentine at 43°
		56.94-56.97 m 0.03 lost core
		58.22-59.01 m variable amounts of serpentinization particularly 58.77-58-89 m, very minor sulfides; smooth planar fractures with ¼ mm serpentine
		59.01-59.44 m 0.43 m lost core
		59.44-59.74 m magnetic at top, not at bottom, variably serpentinized, 1% pyrrhotite and chalcopyrite in grains to ¼ mm
		59.65 m planar fracture with 1-5 mm serpentine at 85°
		59.65-59.70 m abundant irregular fractures with up to 2 mm calcite and serpentine
		59.70 m fracture with 1-1½ cm serpentine at 85°
		59.74-61.04 m sulfides decrease downhole, not so magnetic, serpentinized fractures
		60.67-60.72 m sheared with local calcite 1 mm thick at 45°-50°
		61.04-61.26 m 0.22 m lost core
		61.26-61.81 m very sparse sulfides, magnetism decreasing, slightly lighter-colored in lowest 10 cm, serpentinized fractures
		61.81-61.87 m highly serpentinized but cohesive, not magnetic, possibly lower contact of magnetitic peridotite
61.87-74.00	12.13	Basic lava? (resembles gabbro), various shades of grey with 5-10% or more irregularly shaped and distributed black spots to 5 mm in size, matrix pale-green-yellow-grey particularly on wet diamond-cut surface of core - "salt-and-pepper" texture with grain size mostly up to about 1 mm; most large dark spots are translucent perhaps large feldspars; matrix is heterogeneous mosaic of approximately equal parts of milky white grains and clear glassy grains many ½ mm or less in size with perhaps 10% dark mineral grains and 1-2% brown mica, sparse chalcopyrite, pyrrhotite, and black opaque grains; rock generally has an igneous texture but could well be tuffaceous; locally darker grey, massive except for calcite-filled cracks

Metrage	Interval	Description
	61.87-62.89 m	light-grey
	62.89-64.40 m	light-and dark-grey
	63.07 m	planar fracture 3-8 mm at 60°
	63.99 m	planar fracture 7-12 mm at 52°
	64.40-65.87 m	dark-grey, more brown or red-brown mica
	65.64 m	3-5 mm vein of light-grey-green serpentine-like mineral at 15°
	64.70-65.62 m	with many fractures and irregular veins with green serpentine-like mineral
	65.87-66.46 m	dark-grey, one patch of pyrrhotite and chalcopyrite 3 x 2 cm in size
	66.46-67.40 m	light-grey, locally up to 1½% red-brown mica
	66.11 m	planar fracture 1½-2½ mm at 48° with serpentine-like mineral
	66.26-67.21 m	numerous non planar fractures with up to 1-2 mm fillings of serpentine-like mineral, very weak
	67.58-68.37 m	up to 3% sulfides in central zone with pyrrhotite, chalcopyrite, and some pyrite as cubes on fracture surface, darker-grey
	68.37-68.86 m	with 2-3% brown mica, very sparse sulfides
	68.86-68.93 m	up to ½% sulfides but no pyrite noted
	67.46 m	1-6 mm wide fracture with serpentine-like mineral and minor calcite at 10°
	68.47 m	rough planar fracture 3-6 mm thick with serpentine-like mineral at 64°
	68.73 m	planar fracture 5-8 mm wide with serpentine-like mineral at 43°
	67.58-68.37 m	dark-grey
	67.37-68.86 m	light-grey
	68.86-68.93 m	dark-grey
	68.95-70.42 m	dark-grey
	68.95 m	very rough irregular fracture at 44° with less than 1% cubic pyrite
	69.15 m	very rough fracture at 12° with ½% cubic pyrite
	70.05 m	fracture with 2-4 mm serpentine at 10°

Metrage	Interval	Description
		69.20 m most abundant pyrite but only up to ½%
		69.35-70.74 m partly altered
		70.42-71.18 m light-grey, up to 2% disseminated sulfides around 71.05 m
		71.18-71.47 m medium-grey
		71.47-71.70 m dark-grey, 1% sulfides - mostly pyrrhotite locally up to 30% in small patches
		71.79-71.93 m light-grey
		70.94 m planar fracture with 4 mm serpentine at 55°
		71.76 m planar fracture with 1-2 mm serpentine at 20°
		71.93-73.43 m dark-grey, less than 1% sulfides - mostly pyrrhotite but up to 20% in area of 2 cm^2
		71.93-72.00 m faintly altered
		72.73 m smooth fracture with 3-4 mm serpentine at 38°
		73.17 m planar fracture with 2 mm serpentine at 61°
		73.10 m centre of faintly altered zone
		73.30 m centre of faintly altered zone
		73.43-74.00 m dark-grey, few patches with up to 10% pyrrhotite but average much less than 1%, partly altered in lowest 10 cm
		73.84 m rough irregular fracture with 1 mm serpentine and 2% cubic pyrite at 70°
74.00-74.37	0.37	Grey rhyolite tuff, medium-grey to light-greenish-grey, similar to interval 53.63-53.92 m with 20% dark needle laths to 1 mm long with less in middle of interval, pyrite in cubes and as sheets on fractures near centre of interval associated with calcite and less than 1% disseminated
		SAMPLE 4233 74.00-74.37 0.37 m Au < 0.002 oz/ton (< 69 ppb) Ag < 0.02 oz/ton (< 0.7 ppm)
74.37-89.99	15.62	Basic lava? (resembles gabbro), various shades of grey similar to interval 61.87-74.00 m
		74.37-74.84 m dark-grey, one 1-cm band of light-grey at 90°
		74.84-75.23 m light-grey
		75.19 m planar fracture with 4 mm of calcite at 55°

Metrage Interval	Description
	75.23-75.28 m irregular whitish calcitic blob to 5 cm with up to 1% fine sulfides and patch of resinous red-brown material
	75.28-75.54 m light-grey
	75.30 m planar fracture with ¼ mm serpentine at 70°
	75.49 m rough planar fracture with 2 mm serpentine at 80°
	75.54-76.49 m dark-grey, about ½% sulfide throughout locally somewhat more abundant
	75.66-75.71 m greenish-white band of dolomite and calcite with irregular borders and partly replaced gabbro? in centre at 78°; with 1-2% pyrrhotite, chalcopyrite, pyrite
	76.49-77.99 m dark-grey, pyrite as aggregates to 3 mm and cubes to 1 mm increasing to 3% at 76.80 m and decreasing to ½% at 77.45 m
	79.64 m band 8 mm wide with 5-10% pyrite disseminated in cubes to 1½ mm in size at 85°, faintly magnetic
SAMPLE 4234	76.49-77.39 m 0.90 m Au < 0.002 oz/ton (< 69 ppb), Ag 0.03 oz/ton (1.0 ppm), Cu 347 ppm, Ni 240 ppm, Co 51 ppm, Pt < 50 ppb, Pd < 5 ppb
	77.99-79.56 m dark-grey
	77.99-78.54 m less than 1% pyrite as cubes and aggregates to 1 mm
	78.54-79.56 m very sparsely disseminated pyrite in very fine grains
	78.85 m faintly magnetic then more strongly magnetic downhole
	78.98 m lighter-grey material in layer 1-1½ cm thick at 68°
	79.19-79.25 m white calcite filling cracks to 4 mm wide in several directions
	79.56-79.75 m dark-grey, moderate magnetism decreasing downhole
	79.75-82.01 m light-grey, red-brown mica noticeable
	81.59 m planar fracture with 1-3 mm of serpentine at 63°
	81.72-82.01 m many fractures cemented with clay-like serpentine material

Metrage	Interval	Description
		82.01-82.91 m dark-grey
		82.09 and 82.60 m lighter-grey bands 5 mm wide at 63°
		82.91-85.10 m light-grey
		83.04 m planar fracture with 1½ mm serpentine at 70°
		83.75 m planar fracture with 2 mm serpentine at 80°
		84.06-84.12 m 0.06 m lost core
		84.27 m fracture with up to 8 mm gouge at 45°
		84.89-85.03 0.14 m lost core
		85.03-85.10 m up to 20% very finely disseminated pyrrhotite
		85.10-85.18 m altered, dark-grey, with gouge-like material in top 2½ cm, contact with unaltered at 70°
		85.18-85.21 m lighter-grey layer at 82°
		85.21-85.31 m dark-grey, strongly magnetic, 5% very finely disseminated pyrrhotite with patches ¼ mm thick on fractures
		85.31-87.17 m light-grey, 1-2% red mica
		85.74 m 2-cm layer with up to 20% white mineral
		87.17-88.70 m medium-grey, rare irregular fractures filled with up to 2 mm white calcite
		87.77 m intergranular pyrrhotite
		88.70-89.99 m light-grey
89.99-121.65	31.66	Basic lava, various shades of grey, similar to preceding intervals but without conspicuous dark or black spots, only sparse red-brown mica locally, few serpentinized intervals, grain size mostly 1-2 mm but finer-grained intervals, disseminated calcite up to 10%, sparse sulfides
		89.99-90.04 m medium-dark-grey, finer-grained, up to 10% disseminated calcite, few per cent dark needles to 1 mm long, upper contact at 58° with lower at 63°, one amygdule 20 x 3 mm with rim of massive chalcedony?, possibly top of flow
		90.04-90.17 m slightly calcitic
		88.70-89.02 m fragments of core with irregular coatings of calcite and serpentine

Metrage	Interval	Description

90.17-92.29 m medium-grey with red-brown mica decreasing to nil at bottom

91.60 m very rough irregular fracture with ¼ mm calcite and quartz and 1% pyrrhotite at 48°

91.63 m 3-5 mm wide band of quartz and calcite at 78°

92.29-92.70 m grey and light-greenish-grey

92.35-92.38 m white vein of 80% calcite and 20% quartz, with sparse pyrrhotite at 78°

92.70-92.73 m serpentinized

92.77 m 5-mm vein of calcite at 65°

92.73-92.85 m grey, greenish-grey, minor disseminated pyrite and chalcopyrite

92.80 m 1½ cm of calcite and quartz in fracture at 47°

92.85-92.90 m medium-dark-grey to greenish-grey, finer-grained, slightly calcitic

92.90-92.95 m light-grey, slightly calcitic

92.95-93.32 m grey and greenish-grey, up to 5% calcite, grain size decreasing to 0.1 mm at bottom with calcite-filled hairline cracks, pyrite-filled ½ mm cracks, 1% disseminated sulfides at bottom with first appearance at 93.12 m, lower contact at 62°

93.32-94.86 m light-grey

93.42 m 3-mm vein of coarse white calcite at 66°

93.85 m planar fracture with 2 mm serpentine and calcite at 70°

94.86-96.39 m light-grey similar to previous but with a few per cent of irregularly distributed light-greenish-grey very fine-grained fragments of volcanics up to 2 cm or so in size surrounded by an irregular whitish margin 2-5 mm thick, conspicuous shiny brownish accessory minerals similar to those present in most of these volcanic rocks

94.96 m rough planar fracture with 1-1½ mm of serpentine at 7°

96.39-96.98 m light-grey, similar to previous but with some larger masses of light-grey fine-grained volcanic masses surrounded by whitish-grey material up to 4-6 cm total size

96.65 m rough planar break with ¼-1½ mm of clear and white quartz and calcite at 68°

96.70 m rough planar fracture with up to 2 mm of white calcite and other minerals at 65°

Metrage Interval	Description
	97.84-99.36 m light-grey
	99.36-100.88 m medium-grey
	99.88 m red-brown micas appear again
	100.88-102.29 m as previous with red-brown mica to 1%
	102.29-102.35 m medium-grey with up to 15% dark spots 2-4 mm in size, sparse cubes of pyrite to 2 mm
	102.35-102.83 m medium-grey similar to 100.88-102.29 m
	102.83-102.92 m medium-grey, fine-grained
	102.92-104.00 m medium-grey becoming slightly darker-grey downhole, mostly spotted with 5-10% dark spots 2-4 mm in size; fractures at 60^{o}-80^{o}, 0^{o}-30^{o}, and rare 30^{o}-40^{o}
	104.00-105.57 m medium-grey with slightly lighter-grey patches, spotted as previous
	104.56 m 5-mm band of lighter-grey material at 85^{o}
	104.83-105.07 m fracture with 2 mm serpentine and calcite at 20^{o} then changing direction with branching calcite-filled fractures
	105.57-107.07 m medium-grey, spotted as previous
	106.00 m vein with 5-8 mm of white calcite at 60^{o}
	107.07 -108.62 m medium-grey, similar to 105.57-107.07 m, dark spots decreasing in abundance downhole
	107.96 m planar fracture with 2-4 mm of serpentine and brown calcite at 47^{o}
	108.62-109.20 m similar to previous
	109.20-110.16 m 20% altered to olive-green-brown serpentine along irregular fractures but core has not broken apart
	109.60 m fracture with 2-10 mm serpentine at 65^{o}
	110.16-111.23 m medium-grey, similar to previous, only few dark spots; core mostly fragmented so fractures not readily observable
	111.23-111.52 m 0.29 m lost core
	111.52-111.79 m sheared and altered, olive-grey-brown
	111.60 m 5-mm band of coarse white calcite at 55^{o}
	111.79-111.89 m similar to unaltered previous material
	111.89-112.16 m lighter-grey bands ½-1½ cm thick at 85^{o}

Metrage Interval	Description
	112.16-113.05 m discontinuous fractures with ¼ mm calcite
	112.97 m large angular patches to 2½ cm of coarse white calcite
	113.05-14.63 m similar to previous but noticeably serpentinized along fractures from 13.77-14.35 m
	113.50-114.16 m pyrrhotite and pyrite as patches and stringers up to 2 mm in size, some fractures with calcite, pyrrhotite sparsely disseminated
	113.86 m 2-3 mm discontinuous band with 1-2% very tiny pyrite cubes
	113.09 m planar fracture with 1 mm serpentine and carbonate at 10°
	113.57 m planar fracture with 1 mm serpentine and 1 mm white calcite plus 1% pyrite and pyrrhotite at 10°
	113.79 m rough irregular fracture with 3-10 mm serpentine gouge at 32°
	113.92 m planar fracture with 8 mm serpentine gouge and faint carbonate at 60°
	114.06 m planar fracture with ¼-10 mm serpentine and faint carbonate at 60°
	114.16-11 .63 m generally lighter-grey and somewhat finer-grained near upper contact at 60°, 30% pyroxene and 70% grey feldspar
	114.30 m 2-cm lapilli with 1-2 cm below with up to 3% cubic pyrite
	114.49-114.63 m grey feldspar with small amount of rusty cubic and massive pyrite in lowest 3 cm
	114.63-114.79 m lighter-grey with few dark spots
	114.79-115.61 m similar to above but with very sparse cubic pyrite, many fractures some with serpentine and calcite
	115.61-116.12 m slightly dark-grey, banding in upper 12 cm at about 85°
	115.79 m planar fracture with 1-3 mm serpentine and up to 1 mm calcite at 8°
	115.95 m sub planar fracture with 1-2 mm serpentine and up to 1½ mm calcite

Metrage	Interval	Description
		116.12-117.65 m similar to interval above
		116.85-117.00 m fragmental flow top?
		117.02 m disseminated pyrite patches to 1 x 2 mm for 3 cm but less than 1% of rock
		117.65-118.75 m similar to interval above, patches of fine-grained pyrite up to 5 mm in size ranging from 1-70% of fracture surfaces
		117.65-118.05 m ½% disseminated pyrite in irregular grains and cubes to ½ mm
		SAMPLE 4235 117.65-18.75 1.10 m Au < 0.002 oz/ton (<69 ppb), Ag < 0.02 oz/ton (<0.7 ppm), Cu 135 ppm, Ni 70 ppm, Co 27 ppm, Pt < 50 ppb, Pd < 5 ppb
		119.18-121.65 m green-grey with slight bluish tint with 5-10% dark-green-black spots 1-2 mm in size, similar to previous with few lighter-and darker-grey bands at 85°, very minor pyrite on fractures except below 120.74
		121.25 m rough subplanar fracture 90% covered with pyrite at 25° with slickensides at 68° counterclockwise on uphole-facing surface
		121.33 m rough planar fracture 30% covered with pyrite at 30°
121.65-122.31	0.66	Intermediate volcanic or tuff?, light-greenish-grey, fine-grained, heterogenous interlocking texture, 5-10% disseminated calcite and calcite along hairline fractures; lower contact at 85°
		SAMPLE 4240 120.74-121.92 1.18 m Au < 0.002 oz/ton (<69 ppb), Ag 0.02 oz/ton (0.7 ppm), Cu 84 ppm, Ni 55 ppm, Co 28 ppm, Pt < 50 ppb, Pd < 5 ppb
		121.92-122.10 m 1% disseminated cubic pyrite ½-2 mm
		SAMPLE 4236 121.92-122.31 m 0.39 m Au < 0.002 oz/ton (<69 ppb), Ag 0.03 oz/ton (1.0 ppm), Cu 26 ppm, Ni 92 ppm, Co 32 ppm, Pt < 50 ppb, Pd < 5 ppb
122.31-124.73	2.42	Felsic tuff, light-green-grey
		122.31-122.61 m brecciated, fragments of vitrophyric tuff with very fine grained crystallites in 80% glassy matrix, vitrophyric fragments with larger white grains and crystals in 40% glassy matrix all cemented with irregular veins of white calcite to 2-3 cm wide; 2-3% fine pyrite in calcite veins and disseminated in tuff some in coarser cubes

Metrage Interval	Description
	SAMPLE 4237 122.31-122.61 m 0.30 m Au < 0.002 oz/ton (<69 ppb), Ag 0.02 oz/ton (0.7 ppm) Cu 15 ppm, Ni 26 ppm, Co 13 ppm, Pt< 50 ppb, Pd<5 ppb
	122.61-123.51 m green-grey, fine-grained with 5-10% dark spots to ½-2 mm, 50% or more milky white grains in dark glassy matrix with 2-3% very finely disseminated pyrite, 20-30% disseminated calcite, rust-coated fracture surfaces
	122.88 m fracture with 4 mm greenish mineral and pyrite at 73°
	SAMPLE 4238 122.61-123.43 m 0.82 m Au < 0.002 oz /ton (<69 ppb) Ag 0.02 oz/ton (0.7 ppm), Cu 38 ppm, Ni 72 ppm, Co 30 ppm, Pt < 50 ppb, Pd < 5 ppb
	123.51-123.64 m brecciated and altered to soft rock, much fewer calcite veins than 122.31-122.61 m, disseminated pyrite less abundant
	SAMPLE 4239 123.43-123.64 m 0.21 m Au < 0.002 oz/ton (<69 ppb), Ag 0.02 oz/ton (0.7 ppm), Cu 24 ppm, Ni 34 ppm, Co 12 ppm, Pt < 50 ppb, Pd < 5 ppb
	123.64-123.72 m 0.08 m lost core
	123.72-124.37 m medium-grey but otherwise similar to previous interval, 1-3% finely disseminated pyrite, 5-10% calcite both disseminated and along hairline fractures but disseminated variable to nil locally, up to 20% or more pyrite on fracture surfaces locally, few pyrite cubes to 3 mm
	123.77 m 1-cm band of greyish-white with 2% evenly disseminated very fine grained pyrite at 50°
	123.95 m 1½-3 cm band of light-grey with 1½% evenly disseminated pyrite cubes to ¼ mm
	124.13 m 2-2½ cm band of coarser-grained to ½ mm with 2% disseminated pyrite to ¼ mm with minor associated calcite
	124.28 m 1-cm altered band with fractures filled with pyrite and calcite
	124.31 m coarser-grained with 1% disseminated pyrite in grains to 1 mm in size

Metrage	Interval	Description
		SAMPLE 4241 123.72-124.37 m 0.65 m Au < 0.002 oz/ton (<69 ppb), Ag < 0.02 oz/ton (<0.7 ppm), Cu 70 ppm, Ni 78 ppm, Co 25 ppm, Pt < 50 ppb, Pd < 5 ppb
		124.37-124.45 dark-greenish-grey band at 68° with perhaps 2% very finely disseminated pyrite
		124.48-124.73 m pale-greenish-grey, only sparse pyrite with slightly more on fractures
		124.59 m banding at 72°
		124.63 m 2-cm band with grains to 1 mm in size
		SAMPLE 4242 124.37-124.73 m 0.36 m Au < 0.002 oz/ton (<69 ppb), Ag < 0.02 oz/ton (<0.7 ppm), Cu 22 ppm, Ni 44 ppm, Co 14 ppm, Pt < 50 ppb, Pd < 5 ppb
124.73-125.83	1.10	Intermediate tuff, dark-grey, grain size about 1 mm, 50% whitish feldspar interlocked with 20-40% dark minerals, very sparse pyrite, up to 10% disseminated calcite
		124.73-124.75 m altered to olive-brown-green (serpentinized?), no sulfides
		124.78-124.82 m 4-cm band of solid white calcite at 70° with minor resinous red-brown mineral and very sparse silvery black metallic mineral
		125.00-125.08 m two 3-mm patches of chalcopyrite, two fractures completely covered with pyrite, odd area with 10% pyrrhotite aggregates
		125.27-125.83 m locally disseminated pyrite to 1% of rock
		SAMPLE 4243 124.73-125.83 m 1.10 m Au < 0.002 oz/ton (<69 ppb), Ag < 0.02 oz/ton (<0.7 ppm), Cu 67 ppm, Ni 54 ppm, Co 26 ppm, Pt < 50 ppb, Pd < 5 ppb
125.83-127.26	1.43	Felsic tuff, light-greenish-grey, grain size 0.1-½ mm, milky white and greyish crystallites in 30-40% glassy matrix, 5% disseminated calcite, few lighter-grey irregular lapilli to 3 cm in size, less than 1% sulfides - mostly pyrrhotite but odd pyrite except for 30-40% pyrite on some fracture surfaces
		126.17-126.31 mm few darker lapilli 2-3 cm in size

Metrage	Interval	Description
		SAMPLE 4244 125.83-126.45 m 0.62 m Au < 0.002 oz/ton (< 69 ppb), Ag 0.03 oz/ton (1.0 ppm)
		126.77-126.80 m 0.03 m lost core
		126.80-127.10 m green-grey as previous, up to 5% white feldspar crystals to 1-2 mm in size, variable percentages of disseminated pyrite some cubic to 2-3% with 30-40% pyrite on some fracture surfaces
		127.10-127.18 m darker-grey with 2% green-black specks ¼-2 m in size, only sulfides a few grains of pyrite on lower fracture
		127.18-127.26 m lighter-grey, 1% cubic pyrite to 1 mm in size, some associated with calcite, one fracture with 40% pyrite
		SAMPLE 4245 126.45-127.26 m 0.78 m (omitting lost core) Au < 0.002 oz/ton (< 69 ppb), Ag < 0.02 oz/ton (< 0.7 ppm)
127.26-139.60	12.34	Vitrophyric rhyolite tuff, light-grey but with conspicuous darker-grey layers, 20-50% crystallites some milky white and very irregular and others partly translucent in greyish glassy matrix, calcite in hairline cracks and few per cent disseminated locally, few layers lighter-grey, layers with grain size to 1 mm at 85-90° and darker-grey layers with grain size to 2 mm, other banding at lower angles possibly because of volcanic bombs, few intervals darker-grey
		127.26-127.35 m bomb of white very fine grained volcanics with reaction rim 3-4 mm wide, similar but smaller bombs downhole
		127.98-128.28 m 0.30 m lost core
		128.63-128.98 m fewer crystallites and more abundant glassy matrix, odd grain of disseminated pyrite
		128.98-129.24 m 0.26 m lost core
		129.24-129.84 m conspicuous lighter-and darker-grey banding at 85-90°, vein of white calcite 2-4 mm wide at 16° extending for 19 cm at bottom and 6 cm into interval below
		129.84-130.18 m layering clearly evident on fine scale from arrangement of crystallites
		130.18-131.37 m 1.19 m lost core
		131.37-131.74 m few fragments coarser grained with few aggregates of chalcopyrite to 1 mm; few fragments of magnetic peridotite for about 8-9 cm probably from higher uphole

Metrage	Interval	Description
	131.74-132.89 m	1.15 m lost core
	132.89-133.29 m	similar to previous but with 6-cm layer with grains to 2 mm with up to 5% disseminated calcite in glassy matrix
	133.19-134.42 m	1.23 m lost core
	134.56-134.72 m	0.16 m lost core
	134.72-134.93 m	odd bit of pyrrhotite
	134.93-135.94 m	1.01 m lost core
	135.94-136.52 m	similar to previous but with few fragments of magnetitic peridotite perhaps for 1-2 cm probably from uphole
	136.52-137.46 m	0.94 m lost core
	137.81-138.99 m	1.18 m lost core
	139.19-139.60 m	0.41 m lost core
139.60	End of hole	

DRILL RUNS

Run		Recovery (m)	Character
Box 1 2.74-8.53 m			
2.74-4.88	(9'-16')	2.14	mostly rubble to 3.30 m, then mostly fits with pieces 7 to 47 cm
4.88-5.79	(16'-19')	0.91	all fit with pieces 2 to 25 cm except for rubble 5.46-5.56 m
5.79-8.53	(19'-28')	1.76	pieces 2 to 24 cm with fits except at 5.83, 6.07, 6.42,6.52 m; from 7.17 m on - no fits but pieces to 19 cm
		4.81	
Box 2 8.53-14.87 m			
8.53-11.58	(28'-38')	3.05	8.55-10.70 m pieces 5 to 43 cm - all fit, rest mostly rubble with few fits but 2 pieces to 11 cm
11.58-12.19	(38'-40')	0.42	mostly rubble - pieces to 8 cm
12.19-13.41	(40'-44')	1.14	rubble at top; lowest 111 cm all fit with pieces 4 to 71 cm
13.41-14.02	(44'-46')	0.73	pieces 1 to 18 cm, about half fit with one-third rubble
		5.34	

Run		Recovery (m)	Character
Box 3 14.87-21.70 m			
14.02-15.54	(46'-51')	1.42	pieces 4 to 71 cm - all fit except at top of run
15.54-17.07	(51'-56')	1.67	pieces 2 to 36 cm - all fit
17.07-18.59	(56'-61')	1.52	pieces 9 to 30 cm - all fit except 17.75-17.97 m: angular fragments to 5 cm
18.59-20.12	(61'-66')	1.47	pieces 8 to 30 cm - all fit
20.12-21.64	(66'-71')	1.67	20.12-21.21 m pieces 3 to 26 cm - all fit 21.21-21.31 m angular fragments to 6 cm
		7.75	21.31-21.80 m pieces 3 to 15 cm - all fit
Box 4 21.70-27.74 m			
21.64-22.56	(71'-74')	0.65	21.64-21.70 m angular fragments to 3 cm 21.70-22.18 m pieces 3 to 14 cm - all fit 22.18-22.29 m angular fragments to 6 cm
22.56-23.16	(74'-76')	0.68	pieces 2 to 18 cm - all fit
23.16-24.69	(76'-81')	1.46	pieces 2 to 50 cm - all fit
24.69-25.30	(81'-83')	0.56	24.69-24.94 m pieces ½ to 14 cm - all fit, rubble below with pieces to 6 cm at bottom
25.30-26.21	(83'-86')	0.97	pieces 2 to 15 cm - all fit
26.21-27.43	(86'-90')	1.09	pieces 2 to 18 cm - all fit
27.43-27.74	(90'-91')	0.31	pieces 4 to 10 cm - all fit
		5.72	
Box 5 27.74-33.93 m			
27.74-29.26	(91'-96')	1.22	27.74-27.89 m rubble with pieces to 4 cm 27.89-28.58 m pieces 1 to 16 cm - most fit but considerable fracturing 28.58-28.96 m mostly rubble with pieces to 8 cm with 3 fits in middle of interval
29.26-29.57	(96'-97')	0.17	all rubble, pieces to 6 cm, ground end at bottom
29.57-30.78	(97'-101')	1.04	mostly fractured with pieces to 18 cm - some fits in lower two-thirds
30.78-31.09	(101'-102')	0.31	all angular pieces to 7 cm - no fits
31.09-32.00	(102'-105')	0.50	all angular pieces to 9 cm - no fits
32.00-33.53	(105'-110')	1.07	all angular pieces to 10 cm - only 2 fits, one ground end at 32.11 m
		4.31	

Run		Recovery (m)	Character
Box 6 33.93-42.48 m			
33.53-35.36	(110'-116')	0.89	some angular pieces to 12 cm, rest rubble - only 2 or 3 fits; continuous 33.53-33.73 m, large pieces 33.73 m, continuous 34.07-34.26 m, pieces 2-3 cm 34.26-24.33 m, continuous 34.07-34.26 m
35.36-36.88	(116'-121')	1.20	35.36-35.97 m pieces to 12 cm - most fit; rest angular pieces to 8 cm and rubble - no fits
36.88-38.40	(121'-126')	1.28	36.88-37.69 m pieces to 12 cm - most fit; rest rubble with no fits
38.40-39.93	(126'-131')	0.09	all rubble
39.93-41.76	(131'-137')	1.50	39.93-40.90 m mostly rubble with no fits, pieces to 7 cm, 40.90-41.43 pieces to 11 cm, mostly fits
41.76-42.98	(137'-141')	1.11	pieces to 7 cm, much rubble but some near fits
		6.07	
Box 7 42.48-50.69 m			
42.98-43.59	(141'-143')	0.07	all rubble
43.59-44.50	(143'-146')	0.58	pieces to 6 cm, very few fits
44.50-46.02	(146'-151')	1.34	pieces to 9 cm, mostly fit
46.02-47.24	(151'-155')	1.12	pieces to 8 cm, most fit, but rubble in lowest 16 cm
47.24-48.16	(155'-158')	0.53	all rubble
48.16-48.77	(158'-160')	0.15	all rubble
48.77-49.07	(160'-161')	0.07	all rubble
49.07-50.29	(161'-165')	0.64	mostly rubble, pieces to 6 cm with few fits
50.29-51.21	(165'-168')	0.96	all rubble with pieces to 5 cm
		5.46	

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Drillhole 82-2

Run		Recovery (m)	Character
Box 8 50.69-56.22 m			
51.21-51.82	(168'-170')	0.62	mostly rubble, fits in lowest 15 cm with pieces to 11 cm
51.82-52.43	(170'-172')	0.56	all rubble
52.43-53.34	(172'-175')	0.84	fits in top 20 cm with pieces to 7 cm, rest rubble
53.34-53.64	(175'-176')	0.17	rubble, few fits
53.64-54.86	(176'-180')	1.22	rubble in top 9 cm, below pieces to 14 cm - most fit
54.86-55.47	(180'-182')	0.38	rubble except 54.92-55.07 m with pieces to 6 cm with fits
55.47-56.69	(182'-186')	1.07	pieces to 12 cm, most fit; losses probably at 55.77 m and 56.13 m
		4.86	
Box 9 56.22-63.22 m			
56.69-58.22	(186'-191')	1.50	pieces to 14 cm, average 5-8 cm, most fit except for rubble 56.94-57.05 m
58.22-59.44	(191'-195')	0.79	pieces to 9 cm from 58.34-58.55 m and 58.63-58.79 m, rest rubble with no fits
59.44-59.74	(195'-196')	0.30	pieces to 7 cm - most fit except rubble 59.50-59.60 m
59.74-61.26	(196'-201')	1.30	pieces to 11 cm - all fit except for rubble in lowest 6 cm
61.26-62.79	(201'-206')	1.63	pieces to 21 cm - all fit
62.79-64.31	(206'-211')	1.51	pieces to 14 cm - all fit
		7.03	
Box 10 63.22-70.00 m			
64.31-65.84	(211'-216')	1.47	pieces to 4-20 cm - all fit
65.84-67.36	(216'-221')	1.53	pieces to 4-20 cm - all fit
67.36-68.88	(221'-226')	1.53	pieces to 34 cm - all fit
68.88-70.41	(226'-231')	1.49	pieces 3-15 cm - most fit
		6.02	
Box 11 70.00-76.35 m			
70.41-71.93	(231'-236')	1.51	pieces 2-28 cm - all fit
71.93-73.46	(236'-241')	1.50	pieces 4-28 cm - all fit
73.46-74.37	(241'-244')	0.94	pieces 2-11 cm - all fit except 74.16-74.37 m - all rubble
74.37-74.98	(244'-246')	0.60	pieces 8-35 cm - all fit
74.98-76.50	(246'-251')	1.52	pieces 3-23 cm - all fit
		6.07	

Bur Property, Burwash and Tatamagouche Creeks, Yukon
Drillhole 82-2

Run		Recovery (m)	Character
Box 12 76.35-82.60 m			
76.50-78.03	(251'-256')	1.50	pieces 4 to 20 cm - all fit
78.03-79.55	(256'-261')	1.57	pieces 1-17 cm - all fit
79.55-81.08	(261'-266')	1.51	pieces 2-26 cm - all fit
81.08-82.60	(266'-271')	1.55	pieces 1-17 - all fit
		6.13	
Box 13 82.60-88.57 m			
82.60-84.12	(271'-276')	1.46	pieces 1-28 cm - most fit
84.12-85.65	(276'-281')	1.37	pieces 1-11 cm - most fit
85.65-87.17	(281'-286')	1.53	pieces 1-12 cm - most fit except 85.90-86.04 m
87.17-88.70	(286'-291')	1.54	pieces 1-26 cm - most fit
		5.90	
Box 14 88.57-94.52 m			
88.70-90.22	(291'-296')	1.47	88.70-89.02 m - rubble; rest pieces 1-16 cm - all fit
90.22-91.74	(296'-301')	1.57	pieces 3-40 cm - all fit
91.74-93.27	(301'-306')	1.53	91.74-92.85 m - pieces to 21 cm - all fit; rest pieces 1-10 cm with about half fit
93.27-94.79	(306'-311')	1.59	pieces 1-20 cm with many 2-7 cm - all fit
		6.16	
Box 15 94.52-100.26 m			
94.79-96.32	(311'-316')	1.56	pieces 1-22 cm - all fit
96.32-97.84	(316'-321')	1.42	pieces 1-15 cm - all fit
97.84-99.36	(321'-326')	1.52	pieces 1-18 cm - most fit
99.36-100.89	(326'-331')	1.52	pieces 1-19 cm - all fit
		6.02	
Box 16 100.26-106.52 m			
100.89-102.41	(331'-336')	1.54	pieces 1-21 cm - all fit except rubble in lowest 15 cm
102.41-103.94	(336'-341')	1.58	pieces 1-22 cm - all fit except for rubble 102.75-102.92 m
103.94-105.46	(341'-346')	1.57	pieces 1-18 cm - all fit
105.46-106.98	(346'-351')	1.51	pieces 2-22 cm - all fit
		6.20	

Bur Property, Burwash and Tatamagouche Creeks, Yukon
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Run		Recovery (m)	Character
Box 17 106.52-113.08 m			
106.98-108.51	(351'-356')	1.54	pieces 1-14 cm - all fit
108.51-110.03	(356'-361')	1.54	pieces 1-16 cm - all fit
110.03-111.56	(361'-366')	1.07	mostly rubble except 110.50-110.73 m with pieces to 10 cm - all fit
111.56-113.08	(366'-371')	1.53	pieces 1-25 cm - all fit except 111.73-111.86 m
		5.68	
Box 18 113.08-119.54 m			
113.08-114.60	(371'-376')	1.58	pieces to 14 cm - most fit
114.60-115.52	(376'-379')	0.98	114.60-114.76 m - angular rubble, 114.76-115.14 m - pieces to 11 cm - most fit, balance rubble and pieces to 8 cm - few fits
115.52-116.13	(379'-381')	0.51	pieces 1-13 cm - all fit
116.13-117.65	(381'-386')	1.53	pieces 1-23 cm - all fit
117.65-119.18	(386'-391')	1.53	pieces to 14 cm - all fit
119.18-120.70	(391'-396')	1.56	pieces to 19 cm - all fit
		7.69	
Box 19 119.54-126.38 m			
120.70-122.22	(396'-401')	1.57	pieces average 8 cm - all fit
122.22-123.75	(401'-406')	1.33	pieces 3-10 cm average 7 cm except rubble in lowest 10 cm
123.75-125.27	(406'-411')	1.55	pieces 3-15 cm average 5 cm
125.27-126.80	(411'-416')	1.50	pieces 3-15 cm average 6 cm
		5.95	
Box 20 126.38-137.67 m			
126.80-128.32	(416'-421')	1.18	pieces to 13 cm - few fit, rubble 10-20 cm above base
128.32-128.63	(421'-422')	0.35	one piece 11 cm at top, rest rubble
128.63-129.24	(422'-424')	0.35	pieces to 8 cm, rest rubble
129.24-129.84	(424'-426')	0.60	pieces to 13 cm - most fit
129.84-131.37	(426'-431')	0.34	pieces to 10 cm, lower half all rubble
131.37-132.89	(431'-436')	0.37	all rubble
132.89-134.42	(436'-441')	0.30	pieces to 6 cm - none fit, lower half - all rubble
134.42-134.72	(441'-442')	0.14	all rubble
134.72-135.94	(442'-446')	0.21	pieces to 7 cm - none fit, some rubble
135.94-137.46	(446'-451')	0.58	pieces to 6 cm - none fit, considerable rubble
137.46-138.99	(451'-456')	0.35	pieces to 6 cm - none fit, mostly rubble
		4.77	
Box 21 137.67-139.60 m			
138.99-139.60	(456'-458')	0.20	pieces to 6 cm - none fit, mostly rubble
		0.20	
136.86	(449')	118.14	

Recovery = $\frac{118.14}{136.86} \times 100 = 86.3\%$

Bur Property, Burwash and
Tatamagouche Creeks, Yukon
Claim: Wen 3
Drillhole: 82-3
Bearing: 102°
Inclination: -60°
Depth: 85.34 m
Core recovered: 68.51 m; 83.9%

Location: 10650 m N, 13190 m E
Elevation: 1275± 10 m (from 1:2000 topo map)
Drilled: 1982 09 20 to 1982 09 22
Drilled by Drilcor Industries Ltd.
Logged by M.T. Alexander
Core size: BQ
Casing: BW to 2.44 m, recovered

Purpose: To obtain another intersection of the sulfide-bearing tuffs below the magnetitic peridotite sill and above the thick layer of vitrophyric tuff which is so hard on bits.

Metrage	Interval	Description
0.00-3.66	3.66	Overburden, grey clayey till with boulders of magnetitic peridotite and tuff
3.66-6.16	2.50	Rhyolite tuff, light-grey with variable amounts up to 10% darker-green-grey spots some irregular in shape to 2 cm in size but mostly 2-4 mm in a heterogenous matrix of fine whitish grains with up to 20% finely disseminated calcite; in perhaps 20% glassy matrix; dark spots are darker lapilli of very fine grained volcanics; locally slight rust on fractures 4.52-4.57 m 0.05 m lost core 4.57-4.83 m very sparse rusty sulfide grains 4.83-4.88 m 0.05 m lost core 4.88-5.56 m sparse very tiny rusted pyrite grains 5.59-6.16 m 0.56 m lost core
6.16-7.01	0.85	Red-mica tuff, darker-grey than unit above, all crystalline, mixture of interlocking grains mostly 1-2 mm in "salt-and-pepper" appearance with few coarser lapilli to 1 cm, 1-2% brown mica, and shiny black brittle opaques, up to 20% disseminated calcite, locally abundant disseminated pyrrhotite with accompanying rust on fracture surfaces, few serpentine-coated fractures, indistinct banding at about 90° 6.78-7.01 m lighter grey than above, few irregular fractures with white calcite to 12 mm thick along core
7.01-7.16	0.15	Rhyolite tuff, light-grey, similar to previous rhyolite tuff
7.16-7.55	0.30	Red-mica tuff, light-grey but darker than rhyolite tuff, similar to previous red-mica tuff, 5-10% disseminated feldspar grains to 1 cm in size, not calcitic, locally sparse disseminated chalcopyrite
7.55-7.76	0.21	Rhyolite tuff, light-grey, similar to previous rhyolite tuff 7.55-7.62 m 0.07 m lost core

Metrage	Interval	Description
7.76-17.86	10.10	Red-mica tuff, similar to previous red-mica tuff, not calcitic, banding at about 90°
		7.90-7.92 m 0.02 m lost core
		7.92-8.36 m very sparse disseminated chalcopyrite
		8.36-8.42 m grading to darker-grey
		8.42-8.53 m 0.11 m lost core
		8.53-9.43 m darker-grey with few lighter-grey bands 1-2 cm thick, scattered local concentrations of disseminated pyrrhotite, serpentine with or without calcite on fractures with rust in pyrrhotite-bearing zone
		8.86-8.96 m brecciated zone with serpentine alteration
		9.43 m 1-5% pyrite cubes to 3 mm on fracture surfaces
		9.43-9.45 m 0.02 m lost core
		9.45-9.92 m lighter-grey, disseminated calcite
		9.92-10.09 m light-grey with up to 1% disseminated pyrrhotite and minor associated chalcopyrite
		9.88 m rough irregular fracture subparallel to core with 20% pyrite cubes to ¼ mm
		10.09-10.42 m dark-grey, 5% disseminated calcite
		10.09-10.24 m 2% finely disseminated pyrrhotite and minor chalcopyrite
		10.42-10.67 m 0.25 m lost core
		10.67-11.03 m dark-grey, sparse disseminated pyrrhotite
		10.84 m fracture with 5 mm serpentine and 5% calcite up to 1½ mm thick at 20°
		11.03-12.09 m dark-grey becoming lighter-grey at 11.75 m, very sparse pyrrhotite
		11.69 m smooth planar fracture with 2 mm serpentine and minor pyrite at 80°
		11.73 m rough subplanar fracture with 2 mm serpentine, sparse pyrite and 10% covered with calcite to 4 mm
		12.09-12.19 m 0.10 m lost core
		12.19-12.53 m sparse disseminated pyrite, few calcite-filled fractures 1-2 mm thick, few lapilli to 1 cm
		12.53-12.72 m very rough irregular major fracture at 30° with 1-2 mm of chalky green mineral

Metrage	Interval	Description
		12.86 m rough planar fracture at 72° with thin serpentine and calcite below 3-cm mass of white calcite
		12.86-13.57 m darker-grey with 1½% red-brown mica, up to 2% disseminated pyrrhotite clustered in patches to 1-10 mm, minor disseminated chalcopyrite
		13.57-13.72 m lighter-grey with shear-related fractures and alteration
		13.72-15.03 m lighter-and-darker-grey bands at about 86° from ½ cm to several cm thick, very sparse disseminated sulfides including chalcopyrite, few serpentinized longitudinal fractures, about 1% red-brown mica
		14.56 m rough planar fracture at 25° with 2 mm of serpentine widening to 5 mm
		15.03-15.24 m 0.21 m lost core
		15.24-15.45 m lighter-and-darker-grey banding at 86°, very sparse sulfides but locally abundant pyrrhotite in patches
		15.45-16.67 m zone with many fractures and associated alteration, very sparse sulfides
		16.67-16.77 m dark-grey, with 1% finely disseminated pyrrhotite
		16.77-18.00 m darker-grey but some lighter-grey bands 1-2 cm thick at 86° with some irregular at 75°-85°, sparse disseminated sulfides locally more abundant
17.86-18.15	0.29	Fault, extends along core at 14° with red-mica tuff continuous with that above on one side; only about 2 mm wide with serpentine or chlorite or both and minor calcite
18.15-19.72	1.57	Intermediate tuff, dark-grey with few lighter-grey bands at about 90°, grain size about 0.1 mm with few crystals to 1-2 mm, few per cent tiny lath-shaped grains, 2-3% disseminated calcite, perhaps 50% feldspar
		18.53-18.59 m 0.06 m lost core
		18.59-19.22 m grain size increasing to ½ mm locally in a glassy matrix, bands to 3 cm of lighter-grey at 86°-90° with interfingering ends, sparse pyrite, local patches of feldspar to 5 mm, 2-3% disseminated calcite
		19.22-19.51 m 0.29 m lost core
19.72-20.60	0.88	Red-mica tuff, similar to previous red-mica tuff, ½-1 mm laths of feldspar
		19.80.20.47 m 0.67 m lost core

Metrage	Interval	Description
20.60-26.21	5.61	Intermediate tuff, similar to previous
		20.60-21.73 m few per cent fine lath-shaped grains
		20.82-21.03 m 0.21 m lost core
		21.03-21.12 m grain size to ½ mm
		21.12-21.34 m 0.22 m lost core
		21.34-21.86 m grain size to ½ mm with lath-shaped grains, no sulfides, few per cent calcite
		21.86 m contact at 20° with finer-grained tuff below with 1% calcite
		21.90-21.96 m fractured and altered
		21.96-22.41 m grain size about ½ mm, 20-30% calcite grains some to 5 mm in size
		22.17-22.22 m fractured and altered
		22.22-22.41 m minor finely disseminated chalcopyrite
		22.41-22.56 m 0.15 m lost core
		22.56-23.07 m grain size to about ½ mm, 5-10% disseminated calcite, lighter-grey bands at about 85° cut off abruptly by darker-grey bands
		23.02 m minor disseminated chalcopyrite associated with patch of calcite
		23.07-23.83 m grain size ½ - 1 mm, 2-3% disseminated calcite with few hairline calcite-filled fractures
		23.83-24.05 m grain size 0.1-¼ mm, few needle-like pyroxenes to ½ mm, calcite films on fracture surfaces
		24.05-24.38 m 0.33 m lost core
		24.38-24.65 m grain size 0.1-¼ mm, 1% disseminated calcite in some layers
		24.65-24.69 m 0.04 m lost core
		24.69-25.49 m grain size ¼-½ mm, darker-grey bands at 86° 5 mm thick by 3 cm long, some layers with lath-shaped feldspars, minor disseminated calcite some associated with sparse chalcopyrite
		25.49-25.91 m 0.42 m lost core
		25.91-26.07 m grain size about ¼ mm, sparse disseminated calcite
		26.07-26.21 m 0.14 m lost core

Metrage	Interval	Description
26.21-27.43	1.22	Red-mica tuff, similar to previous red-mica tuff, grain size 1-2 mm with 30% dark grains (poikilitic xenomorphic pyroxenes?) 1-5 mm in size, 1% red-brown mica to 1 mm, very sparse disseminated chalcopyrite and pyrite
		27.28-27.43 m 0.15 m lost core
27.43-28.48	1.05	Intermediate tuff, similar to previous intermediate tuff, grain size from ¼ to 1 mm variable in different layers, 5-30% disseminated calcite variable in different layers, some layers with abundant dark-brown rod-shaped grains
28-48-32.97	4.49	Red-mica tuff, similar to previous red-mica tuff, 1% red-brown mica with bleached rims, very sparse pyrrhotite and chalcopyrite in scattered patches
		28.61-28.65 m gouge 75% fragments to 1 cm in size in serpentine mass
		28.81-28.96 m 0.15 m lost core
		28.96-29.78 m mostly light-grey but with lenses of darker grey 5-6 cm long by 1-2 cm thick at 72°, 10-15% patches of light-grey feldspar to 8 mm in lower part
		29.10-29.34 m disseminated pyrrhotite in patches to ½ cm with grains about 0.1 mm locally to 1½%, associated pyrite cubes and masses 10 by 2 mm in size in fractures with calcite, fractures rusty
		29.78-29.83 m 0.05 m lost core
		29.83-31.09 m light-grey, 1% red-brown mica, patches of light-grey feldspar
		30.32 m 5 mm gouge at 55°
		30.53-31.09 m scattered patches to 2 cm of fine pyrrhotite locally to 1%, calcite along fractures
		31.09-32.40 m dark-grey, 1½-2% red-brown mica, scattered patches to 1 cm of disseminated pyrrhotite to ½% in patches
		32.11 m 20-70% cubic pyrite on fractures associated with calcite
		32.40-32.97 m light-grey, very sparse sulfides including chalcopyrite
		32.54 m fracture at 90° with calcite and serpentine, slickensided
32.97-35.07	2.10	Intermediate tuff, similar to previous intermediate tuff
		32.97-33.09 m brecciated with fragments to 10 cm in serpentine-calcite matrix, upper contact at 80°
		33.45-33.55 m few masses of chlorite to 1½ cm

Metrage	Interval	Description
		33.55-34.70 m few darker-grey bands to 5-8 cm thick many at 86° but some at lower angles
		34.70-34.75 m 0.05 m lost core
		34.75-35.07 m dark-grey
35.07-49.52	14.44	Red-mica tuff, similar to previous red-mica tuff, medium-grey, 1% red-brown mica, calcite-filled fractures
		35.30-35.97 m 0.67 m lost core
		35.97-36.54 m medium-grey
		36.03-36.54 m major fracture at 8°, 3-4mm at top increasing to 1 cm or more at bottom, filled with serpentine
		36.54-36.58 m 0.04 m lost core
		36.58-37.57 m lighter-and-darker-grey bands to 5 cm thick at 86°, very sparse chalcopyrite
		36.66-36.76 m fractured zone with fragments surrounded by serpentine
		36.76-38.00 m 0.43 m lost core
		38.10-39.59 m mostly medium-grey with one or two lighter-grey bands 4-5 cm thick, very sparse disseminated chalcopyrite, calcite-filled fractures
		39.59-39.62 m 0.03 m lost core
		39.62-40.81 m fewer but thicker lighter-and-darker-grey bands, few per cent greyish feldspar lapilli to 8 mm in size, 1-1½% red-brown mica
		40.81-44.12 m 0.31 m lost core
		41.12-42.68 m medium-grey, 1½-2% red-brown mica increasing downhole, 5-10% large light-grey feldspar lapilli, sparse disseminated chalcopyrite
		42.50-42.68 m up to 1% very finely disseminated pyrrhotite at 42.64 m, rusty fractures with up to 5% cubic pyrite on fractures from 42.60-42.68 m
		42.68-44.20 m few per cent light-grey lapilli few lighter-grey bands at 86°, 1½% red-brown mica, rare scattered concentrations of disseminated pyrrhotite to 1% of rock
		42.92 m planar fracture at 75° with 1 mm serpentine, slickensides
		43.77 m smooth planar fracture at 48° with 3-8 mm of serpentine, slickensides
		44.20-46.80 m few darker-grey lenses

Metrage	Interval	Description
		45.17-45.39 m few lapilli 4-5 cm in size with grain size 2-3 mm, slightly calcitic, white feldspar intergrown with dark pyroxene, top contact at 20°, lower contact at 74°
		45.92-46.15 m coarse-grained lapilli similar to previous
		46.80-46.94 m 0.14 m lost core
		46.94-47.80 m darker-grey lenses or lapilli, 1% red-brown mica
		47.80-47.85 m 0.05 m lost core
		48.04-48.41 m coarse-grained lapilli similar to previous, 55% white feldspar, 25% pyroxene-dark-green and euhedral light-grey-brown, 20% serpentine, sparse pyrite
		48.41-48.46 m 0.05 m lost core
		48.41-48.69 m coarse-grained lapilli with grains to 6 mm
		48.69-49.51 m darker-grey
49.51-50.22	0.71	Intermediate tuff, similar to previous intermediate tuff, dark-grey, calcite-filled fractures
		50.18-50.22 m brecciated, lower contact at 50°
50.22-54.25	4.03	Red-mica tuff, similar to previous
		50.32-50.38 m brecciated, sheared, altered, fragments to 1 cm in serpentine matrix
		51.86-52.06 m coarse-grained lapilli similar to previous, sparse blobs of pyrrhotite to 2 mm
		52.02-52.82 m mica absent
		52.82-53.22 m coarse-grained lapilli similar to previous
		53.22-53.34 m 0.12 m lost core
		53.34-54.04 m medium-grey
		53.34-53.62 m longitudinal fracture
		54.04-54.25 m 0.21 m lost core
54.25-55.49	1.24	Intermediate tuff, similar to previous, dark-grey, fine-grained
		54.41-54.56 m 0.15 m lost core
		54.69-55.17 m 0.48 m lost core

Metrage	Interval	Description
55.49-58.40	2.91	Red-mica tuff, similar to previous, medium-grey 55.56 m 3-4 mm band rich in feldspar 55.49-55.57 m mica absent 55.57-55.78 m 0.21 m lost core 55.80 m sparse pyrite 56.63-57.24 m ½% red-brown mica 57.24-58.20 m 1% red-brown mica, very sparse chalcopyrite, calcite along fractures 57.78 m fracture at 30° with rusty coating and fine black specks
58.40 60.75	2.35	Intermediate tuff, medium-grey, calcite patches to 1 cm along upper contact at 35°, needle-like pyroxenes, fine-grained 58.55-58.65 m irregular lapilli, cubic pyrite to ¼ mm up to 30% of contact, round calcite patches to 10 mm 58.91-58.97 m lapilli with 1% irregularity distributed pyrite in grains to ½ mm, patches of calcite 59.02 m shear at 70° 5 mm wide coated with calcite, rare cubic pyrite 60.07 m 5-cm zone with calcite-filled fractures to 1 mm thick with sparse cubic pyrite 60.57 m zone with calcite-filled fractures and cubic pyrite as previous
60.75-61.64	0.89	Red-mica tuff, medium-grey, similar to previous, speckled white and grey, 1% red-brown mica, scattered disseminations of pyrite locally to 1-2%, calcite-filled fractures
61.64-64.77	3.13	Intermediate tuff, similar to previous, medium-grey, fine-grained, undulating sharp contact at about 5° with red-mica tuff above from 61.44-61.86 m; angle of contact and more red-mica tuff downhole suggests that the red- mica tuff forms bombs in the intermediate tuff which may in fact be a flow, ½% disseminated pyrite cubes to ¼ mm locally at contact with red-mica tuff, calcite-filled fractures 62.58-62.71 m irregular angular mass of red-mica tuff (bomb?), up to 1% pyrite locally in intermediate tuff within 2 cm of bottom of bomb 63.51-63.65 m mass of red-mica tuff (bomb?) with up to 2% pyrite in intermediate tuff along contact

Metrage	Interval	Description
		63.63-63.77 m fractures at many angles, altered
		63.89-64.01 m 0.12 m lost core
		64.01-64.77 m grain size about ½ mm with odd one to 2 mm decreasing downhole, 5% white spots of calcite to 2 mm
		64.33-64.44 m 30% serpentinized
64.77-66.17	1.40	Red-mica tuff, medium-grey, similar to previous except mica not present, very sparse disseminated pyrrhotite in grains to ¼ mm, calcite-filled fractures
		65.10 m calcite-filled fracture with tiny pyrite grains
		65.63-66.09 m curving calcite-filled fractures to 3 mm thick
		66.09-66.17 m lighter-grey, matrix 30% probably glassy?, 1% pyrrhotite in grains to ½ mm, patches of massive pyrite along fractures mostly to ½ mm but one 16 x 2 mm
		66.23-66.45 m 0.22 m lost core
66.17-67.31	1.14	Intermediate tuff, lighter-grey, similar to previous
		66.45-66.87 m variable grain size, many discontinuous calcite-filled fractures associated with patches of calcite to 1 cm
		66.87-67.03 m bomb? of red-mica tuff with mafics all serpentinized, 1-2% disseminated pyrrhotite in grains to ¼ mm, upper contact at 60°, lower contact at 55°
		67.00-67.03 m 70% massive calcite filling fractures up to 1 cm thick
67.31-68.83	1.52	Red-mica tuff, medium-grey, similar to previous
		67.31-68.05 m slightly altered except at 67.83 m, 1-2% disseminated pyrrhotite, fractures locally rusty
		67.31-67.76 m perhaps 10-15% calcite veins to 1 cm wide, at least one offset by later fracture
		68.05-68.83 m slightly altered becoming unaltered downhole
		68.05-68.17 m irregular whitish patches to 3 by 5 cm occupying 30% of core; euhedral feldspar laths in pale-green matrix, sparse pyrrhotite in grains to ¼ mm
68.83-69.19	0.36	Vitrophyric rhyolite tuff, light-grey, 60-80% white crystallites and grains to 0.1 mm in 20-40% glassy matrix, 1-2% pyrrhotite in patches to 1 mm, upper contact at 30°, up to 10% pyrite as masses and cubes on fractures with calcite, may be a bomb

Metrage	Interval	Description
		68.90-69.19 m 0.29 m lost core
69.19-83.38	14.19	Rhyolite tuff, light-grey, interlocking mosaic of white and dark minerals mostly euhedral, grain size to ¼ mm; differs from intermediate tuff by lighter color and higher proportion of light-colored minerals, 20% disseminated calcite
		69.42-69.44 m bomb? of red-mica tuff but without mica
		69.44-69.80 m 0.36 m lost core
		69.80-71.30 m calcite blobs to 1½ mm
		71.30-71.63 m 0.33 m lost core
		71.63-72.06 m greenish-grey, 5-7% white feldspar crystals ½-2 mm in size, 55% white minerals in matrix, disseminated calcite decreasing downhole, 1-2% pyrrhotite and pyrite in ratio of 20:1 in grains and patches to ½ mm, abundant cubic pyrite with rust on fracture surfaces, also massive pyrite with grain size about 1 mm, calcite-filled fractures
		SAMPLE 4246 71.63-72.06 m 0.43 m Au 0.002 oz/ton (68 ppb) Ag 0.02 oz/ton (0.7 ppm), Cu 128 ppm, Ni 53 ppm, Co 24 ppm, Pt < 50 ppb, Pd 15 ppb
		72.06-73.15 m 1.09 m lost core
		73.15-73.54 m greenish-grey, similar to 71.63-72.06 m but with 3-5% disseminated calcite, about 1% disseminated patches of pyrrhotite and pyrite in grains to ¼ mm in ratio 70:30, pyrite cubic also on fracture surfaces which are mostly slightly rusty, calcite-filled fractures
		SAMPLE 4247 73.15-73.54 m 0.39 m Au 0.003 oz/ton (102 ppb), Ag 0.02 oz/ton (0.7 ppm), Cu 114 ppm, Ni 52 ppm Co 23 ppm, Pt < 50 ppb, Pt 15 ppb
		73.54-74.07 m 0.53 m lost core
		74.07-75.17 m greenish-grey, similar to 73.15-73.54 m, minor disseminated calcite, few calcite-filled fractures, 1% disseminated pyrrhotite and pyrite in ratio 95:5, pyrite on fractures, rusty fractures to 74.47 m
		SAMPLE 4248 74.07-75.17 m 1.10 m Au 0.002 oz/ton (68 ppb), Ag 0.02 oz/ton (0.7 ppm), Cu 108 ppm, Ni 52 ppm Co 23 ppm, Pt < 50 ppb, Pt 10 ppb
		75.17-76.13 m medium-grey with darker-grey bands, variable to 5% disseminated calcite, calcite-filled fractures, glassy? matrix

Metrage	Interval	Description
		76.13-76.20 m 0.07 lost core
		76.20-76.30 m bomb? partly assimilated, very sparse tiny grains of chalcopyrite in calcite-filled fractures
		76.30-77.73 m dark-grey, variable grain size and proportionsof feldspar to dark minerals, rod-like dark minerals, curving calcite veins to 2 mm wide
		76.73-76.95 m 5% round calcite spots ½-1½ mm
		77.49-77.73 m altered to buff-yellow-green
		77.73-77.77 m dark-grey, similar to 76.30-77.73 m
		77.77-78.01 m dark-grey with white spots, 30% cream-white feldspar laths
		78.01-78.16 m pale-light-green-grey, tiny crystallites, locally 20% glassy matrix, sparse pyrrhotite some disseminated and some along fractures
		78.16-79.25 m 1.09 m lost core
		79.25-79.60 m pale-light-green-grey becoming brownish-grey downhole, locally 20% glassy matrix with white crystallites and grains
79.60-83.34	0.74	Coarse-grained intermediate tuff, medium-to-light-grey, similar to red-mica tuff but without red mica, few calcite-filled fractures
		79.70-80.47 m 0.77 m lost core
		81.33 m grain size decreasing to about ½ mm
		81.79-82.09 m very sparse chalcopyrite in calcite-filled fractures, also sparse pyrrhotite
		82.09-83.34 m coarse-grained-about 1 mm, varying proportions of minerals but feldspar about 60% and dark minerals about 40%, few curving calcite veins 4-5 mm thick
		83.19-83.34 m grey-brown grading to buff-grey with black specks, calcite increasing to 20% in lowest 8 cm, grain size of matrix less than ¼ mm
83.34-83.38	0.04	Limestone, white, highly calcitic, white lenses and streaks 4 mm thick by 2 cm long in greyer mass; may have been deposited during quiescent period of volcanism
83.38-85.06	1.68	Vitrophyric rhyolite tuff, light-grey, 20-50% very fine white crystallites in glassy matrix, few bands to 3 cm with crystallites to ½-1 mm, calcite-filled hairline-cracks, some curving calcite veinlets to 2 mm wide, bands of lighter-and-darker-grey

Metrage	Interval	Description
	83.47-83.52 m	0.05 m lost core
	83.65-83.82 m	0.17 m lost core
	84.17-84.73 m	0.56 m lost core
	84.87-84.97 m	increasing amounts of calcite, 1½ cm white band at 84.95 m at 86°
	85.06-85.34 m	0.28 m lost core
85.06	End of hole	

DRILL RUNS

Run		Recovery (m)	Character
Box 1 3.66-9.11 m			
3.66-3.96 m	(10'-13')	0.30	all rubble with fragments to 4½ cm
3.96-4.57	(13'-15')	0.56	pieces to 7 cm, about half fit, rest rubble
4.57-4.88	(15'-16')	0.26	pieces to 5 cm, fit in upper half, rubble below
4.88-6.10	(16'-20')	0.65	pieces to 10 cm, rubble in upper 24 cm and lowest 9 cm, fit between
6.10-6.71	(20'-22')	0.71	pieces to 10 cm - about half fit in central part, rest rubble
6.71-7.01	(22'-23')	0.23	pieces to 9 cm with fits in lowest 20 cm, rest rubble
7.01-7.62	(23'-25')	0.54	pieces to 17 cm - rubble in top 19 cm, fit below
7.62-7.92	(25'-26')	0.28	one 9-cm piece, rest rubble
7.92-8.53	(26'-28')	0.50	pieces to 14 cm - most fit except rubble in lowest 7 cm
8.53-9.45	(28'-31')	0.90	pieces to 10 cm but few fits and much rubble particulary in upper half
		4.93	
Box 2 9.11-15.45 m			
9.45-10.67 m	(31'-35')	0.97	pieces to 11 cm - most fit; possible core loss at 9.92 m
10.67-10.97	(35'-36')	0.36	pieces to 8 cm - all fit
10.97-12.19	(36'-40')	1.06	pieces to 14 cm - most fit
12.19-13.72	(40'-45')	1.53	pieces to 18 cm - most fit
13.72-15.24	(45'-50')	1.20	pieces to 23 cm - most fit
		5.12	
Box 3 15.45-21.95 m			
15.24-16.76 m	(50'-55')	1.64	pieces to 15 cm, most 8-9 cm - most fit except 15.56-15.59 m
16.76-18.29	(55'-60')	1.52	pieces to 14 cm, most 8-10 cm - most fit except 16.76-16.83 m, 17.63-17.66 m, and lowest 10 cm, which are rubble
18.29-18.59	(60'-61')	0.24	all rubble - maximum 6 cm
18.59-19.51	(61'-64')	0.63	pieces to 14 cm, most 8-12 cm - all fit except for rubble in top 7 cm and lowest 8 cm
19.51-20.42	(64'-67')	0.29	pieces to 9 cm - most fit except for rubble in lowest 10 cm
20.42-20.73	(67'-68')	0.26	all rubble - maximum 5 cm
20.73-21.03	(68'-69')	0.09	all rubble - maximum 5 cm
21.03-21.34	(69'-70')	0.09	all rubble - maximum 5 cm
21.34-21.95	(70'-72')	0.62	pieces to 7 cm - fit 21.39-21.53 m, rest rubble

Run		Recovery (m)	Character
Box 4 21.95-28.35 m			
21.95-22.56 m	(72'-74')	0.45	pieces to 8 cm - most fit in upper half, rubble below
22.56-23.77	(74'-78')	1.27	pieces to 6-7 cm - few fit, much rubble
23.77-24.38	(78'-80')	0.22	all rubble, maximum 5 cm
24.38-24.69	(80'-81')	0.27	one 9 - cm piece, rest rubble
24.69-25.91	(81'-85')	0.80	pieces to 8 cm, most 5-6 cm - most fit
25.91-26.21	(85'-86')	0.16	one 6 - cm piece, rest rubble
26.21-27.43	(86'-90')	1.07	pieces to 10 cm, most 6-8 cm - all fit except top and bottom 5-8 cm
27.43-28.35	(90'-93')	0.97	pieces to 10 cm, most about 5 cm - few fit
		5.21	
Box 5 28.35-34.75 m			
28.35-28.96 m	(93'-95')	0.41	pieces to 6 cm - most fit except rubble in top 11 cm
28.96-29.87	(95'-98')	0.82	pieces to 18 cm, average about 11 cm - most fit
29.87-30.48	(98'-100')	0.70	pieces to 11 cm, average 7 or 8 cm - all fit except for rubble 30.33-30.37 m
30.48-31.09	(100'-102')	0.56	pieces to 17 cm, average 7 or 8 cm - few fit, rubble in bottom 14 cm
31.09-32.00	(102'-105')	0.91	pieces to 27 cm, average 16 cm - all fit
32.00-33.53	(105'-110')	1.55	pieces to 13 cm, average about 7 cm - most fit
33.53-34.75	(110'-114')	1.15	pieces to 11 cm - all fit except for rubble in lowest 32 cm
		6.10	
Box 6 34.75-42.36 m			
34.75-35.97 m	(114'-118')	0.55	pieces to 8 cm - few fit in upper half, rubble below
35.97-36.58	(118'-120')	0.57	pieces 5 to 20 cm - all fit
36.58-38.10	(120'-125')	1.09	pieces to 15 cm - most fit except rubble 36.71-36.77 m and 37.37-37.57 m
38.10-39.62	(125'-130')	1.49	pieces to 22 cm - most fit
39.62-41.15	(130'-135')	1.19	pieces to 26 cm - most fit, rubble in bottom 6 cm
41.15-42.67	(135'-140')	1.56	pieces to 23 cm - all fit
		6.45	
Box 7 42.36-48.77 m			
42.67-44.20 m	(140'-145')	1.52	pieces to 20 cm - most fit
44.20-45.72	(145'-150')	1.62	pieces to 27 cm - all fit
45.72-46.94	(150'-154')	0.98	pieces to 12 cm - most fit, except for rubble in bottom 15 cm
46.94-47.85	(154'-157')	0.86	pieces to 15 cm - fit except for rubble 47.19-47.29 m, 47.40-47.50 m and lowest 10 cm
47.85-48.46	(157'-159')	0.38	all rubble, maximum length 5 cm
48.46-49.38	(159'-162')	1.10	pieces to 31 cm - all fit
		6.46	

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Run		Recovery (m)	Character
Box 8 48.77-55.36 m			
49.38-50.29 m	(162'-165')	1.00	pieces to 10 cm - most fit except for rubble 49.52-49.80 m
50.29-51.82	(165'-170')	1.48	pieces to 16 cm - most fit
51.82-53.34	(170'-175')	1.36	pieces to 10 cm - most fit except for rubble in bottom 10 cm
53.34-54.25	(175'-178')	0.70	pieces to 20 cm - most fit except for rubble 53.61-53.70 m and 53.92-54.06 m
54.25-54.56	(178'-179')	0.16	all rubble - maximum length 5 cm
54.56-55.17	(179'-181')	0.13	two fitting pieces to 7 cm; rest rubble
55.17-55.78	(181'-183')	0.34	all rubble-maximum length 8 cm
		5.17	
Box 9 55.36-60.90 m			
55.78-56.39 m	(183'-185')	0.90	pieces to 17 cm - most fit
56.39-57.00	(185'-187')	0.38	pieces to 8 cm - mostly rubble
57.00-58.22	(187'-191')	1.20	pieces to 15 cm - most fit
58.22-59.74	(191'-196')	1.61	pieces to 19 cm - all fit
59.74-61.57	(196'-202')	1.76	pieces to 19 cm - all fit to 60.90 m; below about half fit
		5.85	
Box 10 60.90-66.87 m			
61.57-62.48	(202'-205')	0.94	pieces to 24 cm - fit to 62.40 m, rubble below
62.48-64.01	(205'-210')	1.38	pieces to 13 cm - most fit except for rubble 63.16-63.37 m and bottom 10 cm
64.01-65.53	(210'-215')	1.62	pieces to 9 cm - about half fit; rubble 64.15-64.31 m, 64.36-64.45 m, and 64.79-64.91 m
65.53-66.45	(215'-218')	0.60	pieces to 12 cm - all fit except for rubble in bottom 15 cm
66.45-67.97	(218'-223')	1.60	pieces to 14 cm - most fit
		6.14	
Box 11 66.87-74.70 m			
67.97-69.19	(223'-227')	0.85	pieces to 19 cm, most fit except for rounded rubble in lowest 6 cm
69.19-68.80	(227'-229')	0.25	all rubble - maximum length 8 cm
69.80-71.63	(229'-235')	1.50	pieces to 11 cm - most fit except for rubble in lowest 7 cm
71.63-73.15	(235'-240')	0.43	all rubble - pieces 1 - 3 cm
73.15-74.07	(240'-243')	0.39	pieces to 3 cm - most fit in upper two-thirds, rubble below
74.07-74.68	(243'-245')	1.10	pieces 1 - 3 cm - most fit
		4.52	

Run		Recovery (m)	Character
Box 12 74.70-82.02 m			
74.68-76.20 m	(245'-250')	0.96	pieces to 10 cm - most fit except for rubble in bottom 19 cm
76.20-77.72	(250'-255')	1.53	pieces to 15 cm - all fit except for angular pieces in lowest 28 cm
77.72-79.25	(255'-260')	0.43	all rubble, mostly angular
79.25-80.47	(260'-264')	0.45	mostly rubble with pieces to 7 cm
80.47-81.99	(264'-269')	1.62	pieces to 22 cm - most fit except angular rubble in lowest 20 cm
		4.99	
Box 13 82.02-85.34			
81.99-83.52 m	(269'-274')	1.38	pieces to 14 cm - all fit except for angular rubble 82.30 to 82.48 m,
83.52-83.82	(274'-275')	0.13	all rubble - maximum size 4 cm
83.82-84.73	(275'-278')	0.35	all rubble - maximum size 6 cm
84.73-85.34	(278'-280')	0.33	pieces to 10 cm - most fit
		2.19	
81.68	(270')	68.51	

$$\text{Recovery} = \frac{68.51}{81.68} \times 100 = 83.88\%$$

Bur Property, Burwash and
Tatamagouche Creeks, Yukon
Claim: Wen 5
Drillhole 81-5
Bearing: 102°
Inclination: -60°
Depth: 69.49 m
Core recovered: 49.805 m; 73.6%

Location: 10685 m N, 13360 m E
Elevation: 1240± 10 m (from 1:2000 topo map)
Drilled: 1981 08 11 to 1981 08 16
Drilled by Drilcor Industries Ltd.
Logged by L.B. Halferdahl
Initial samples by C. Gibson
Later samples by L.B. Halferdahl
Core size: BQ
Casing: BW to 4.57 m, recovered

Purpose: To sample an overburden-covered stratigraphic interval of the Volcaniclastic Member of the Station Creek Formation above the interval previously sampled in outcrop on the rusty cliffs below.

Notes: 1) Eleven drill bits were used in coring this hole chiefly because of the hard, tough, blocky nature of the vitrophyric rhyolite tuff.
2) Most core recoveries were estimated after sampling so are approximate only. Lost core has been arbitrarily assigned to the bottom of each drill run, unless the character of the core in a run indicates another location.
3) Selected intervals were resampled in early 1983.
4) No permafrost was noted during the drilling of this hole.

Metrage	Interval	Description
0-1.83	1.83	Overburden, glacial till and boulders
1.83-20.03	18.20	Vitrophyric rhyolite tuff, light-grey, locally greenish-grey, 20-50% white crystallites mostly to 0.1 mm in size but locally up to ½ mm in a grey glassy matrix, banded, few darker laminae ½-2 mm thick and 1 to 10 mm apart, local discontinuous dark laminae, few irregular dark clots with less than 1% disseminated pyrrhotite in irregular clots to 3 mm in size, and also smeared out along joints, very sparse blue earthy material; few interbedded layers of crystallized rhyolite tuff 2.73-2.96 m whitish rhylite tuff consisting of interlocking whitish grains of quartz and feldspar, calcitic, layer of marble-like limestone 10-12 cm thick, brown material on joint and fracture surfaces, minor disseminated pyrrhotite 2.96-18.59 m local 20-30% darker elongated bulbous masses in greenish matrix, few calcite grains locally and with calcite-coated fractures 3.31 m 75% whitish grains to 2 mm in glassy matrix in layer 1½ cm thick, sparse disseminated sulfides in grains less than ¼ mm; at least one similar interval downhole with sparse disseminated pyrrhotite 3.38-4.27 m 0.89 m lost core 4.27-4.77 m few subround to elongated whitish aggregates to 5 mm in length

Metrage	Interval	Description
	4.77-5.18 m	0.41 m lost core
	5.78-7.01 m	1.23 m lost core
	SAMPLE 4491 2.44-7.01 m	2.04 m (omitting lost core) Au trace, Ag 0.02 oz/ton (0.7 ppm)
	7.01-7.27 m	one 5-mm layer of rhyolite tuff with uneven contacts
	7.27-7.32 m	0.05 m lost core
	7.32-8.23 m	0.91 m lost core
	8.23-8.53 m	few irregular white spots to 4 mm and white streaks along a fracture at 10-30° to core axis
	8.88-8.99 m	0.11 m lost core
	8.99-9.05 m	rhyolite tuff, calcitic, 2-3% disseminated pyrrhotite in grains to 5 mm, minor rust on fractures
	9.05-9.30 m	0.25 m lost core
	9.57-9.60 m	0.03 m lost core
	9.60-9.73 m	greenish-grey, minor sulfides (pyrrhotite?) in grains to ½ mm along hairline fracture approximately parallel to core axis
	9.73-10.06 m	0.33 m lost core
	SAMPLE 4490 7.01-10.06 m	1.37 m (omitting lost core) Au trace, Ag trace
	10.06-10.36 m	grey and green-grey, much less than 1% disseminated pyrrhotite in grains to 1 mm in size, odd white layer 2-3 mm thick
	10.36-10.52 m	0.16 m lost core
	10.52-10.555 m	green-grey with 1-cm layer of rhyolite tuff with grains to 1 mm and few per cent dark grains, rounded white spots to 2 mm in size aligned along one bedding lamina
	10.555-10.67 m	0.115 m lost core
	10.67-10.93 m	green-grey, hairline cracks cemented with calcite
	10.93-11.28 m	0.35 m lost core
	11.28-11.57 m	green-grey, few sulfide grains up to 1 or 2 mm in one interval 5-6 cm long
	11.57-11.58 m	0.01 m lost core

Metrage	Interval	Description
		SAMPLE 4489 10.06-11.58 m 0.885 (omitting lost core) Au trace, Ag 0.24 oz/ton (8.2 ppm)
		11.58-11.81 m green-grey, rust spot 4 mm in size on joint surface, 1% disseminated sulfides (pyrrhotite?) in one 4-cm interval
		11.81-11.89 m 0.08 m lost core
		11.89-12.19 m green-grey, one 1-cm thick layer of rhyolite tuff, 1% disseminated rusty grains to 1 mm in interval of few cm
		12.19-12.40 m green-grey, alternating layers about 1 cm thick with finer and coarser crystallites, few rusty dendrites, sparse sulfide grains less than 0.1 mm and abundant dark spots along joint surfaces, 1% rusty black disseminated spots to ½ mm
		12.40-12.50 m 0.10 m lost core
		12.50-12.74 m 1-2% disseminated pyrrhotite in grains to 1 mm in layer 4-5 cm thick, less pyrrhotite below
		12.74-12.80 m 0.06 m lost core
		12.80-13.02 m very sparse sulfides
		13.02-13.11 m 0.09 m lost core
		SAMPLE 4488 11.58-13.11 m 1.20 m (omitting lost core) Au trace, Ag 0.02 oz/ton (0.7 ppm)
		13.11-14.16 m very sparse pyrrhotite in grains to 1 mm, slightly more rusty grains in a few thin layers
		14.16-14.52 m few rusty grains, no sulfides
		14.52-14.63 m 0.11 m lost core
		SAMPLE 4487 13.11-14.63 m 1.41 m (omitting lost core) Au trace, Ag trace
		14.63-14.92 m few rusty grains, no sulfides
		14.92-14.94 m 0.02 m lost core
		14.94-15.47 m numerous dark slightly rusty spots to 1 mm in size on fracture surface
		15.47-16.00 m 0.53 m lost core
		16.07-16.15 m 0.08 m lost core

Metrage	Interval	Description
		SAMPLE 4486 14.63-16.15 m 0.89 m (omitting lost core)
		Au trace, Ag 0.52 oz/ton (17.8 ppm)
	16.21-16.46 m	0.25 m lost core
	16.46-17.06 m	very fine sulfides (about 0.1 mm) in bands 2 to 3 cm thick, locally slightly more than 1% sulfides, brownish coating on some joints
	17.06-17.68 m	0.62 m lost core
		SAMPLE 4485 16.15-17.68 m 0.66 m (omitting lost core)
		Au trace, Ag 0.06 oz/ton (2.1 ppm)
	17.68-17.90 m	light-brownish-green calcite film on joint surfaces, some with 2-4% pyrrhotite
	17.90-18.14 m	0.24 m lost core
	18.14-18.37 m	pyrrhotite grains to 2 mm along fracture surfaces, very sparse sulfide grains 0.1-0.2 mm disseminated locally
	18.37-18.59 m	0.22 m lost core
	18.59-18.87 m	rhyolite tuff, light-grey to white, interlocking mosaic of whitish grains to 1 mm in very minor glassy matrix, darker-grey downhole from increasing amount of dark minerals in matrix, black coating on fracture surfaces, up to 5% sulfides in grains to 2 or 3 mm mostly pyrrhotite, but also pyrite, and minor chalcopyrite, both disseminated and along fractures, some fracture surfaces partly rusty, calcite along fracture ½ mm thick
	18.87-18.90 m	0.03 m lost core
	18.90-19.00 m	light-grey and green-grey, calcite-filled fractures ½ mm thick, grading down into tuff with less glassy matrix, odd grain of pyrrhotite to 2 mm
	19.00-19.18 m	rhyolite tuff, medium-grey with irregular bands of lighter and dark, interlocking mosaic of whitish grains in darker matrix, dark coating on fracture surfaces, up to 1-2% pyrrhotite locally, few grains of chalcopyrite to 1 mm or so
	19.18-19.20 m	0.02 m lost core
		SAMPLE 4484 17.68-19.20 m 1.01 m (omitting lost core)
		Au trace, Ag 0.02 oz/ton (0.7 ppm)

Metrage	Interval	Description
		19.20-20.03 m light-grey becoming slightly darker-grey downhole, local black coatings on fracture surfaces, few light-brown coatings, few layers 3-4 cm thick almost free of glass, locally finely laminated, few elongated white blobs to 3 mm, sparse fine sulfides on fracture surfaces
		19.53-19.81 m 0.28 m lost core
		SAMPLE 4483 19.20-20.03 0.55 m (omitting lost core) Au trace, Ag 0.14 oz/ton (4.8 ppm)
20.03-23.63	3.60	Rhyolite tuff with minor interbedded vitrophyric tuff, light- to dark-grey with darker shades accompanying increasing amounts of sulfides, interlocking mosaic of whitish grains to 1 mm
		20.03-20.20 m 5% pyrrhotite in grains to 2 mm in layer 1 cm thick and on adjacent fractures, dark-brown and black coatings on fracture surfaces as well as some rust, 1-3% disseminated pyrrhotite and lesser chalcopyrite and along fractures, some intervals almost free of sulfides
		20.20-20.94 m medium- to dark-grey, locally almost black, 20% dark-grains resembling biotite and increasing downhole, accompanied by minor hornblende at 20.77 m, up to 1% disseminated pyrrhotite throughout
		SAMPLE 4482 20.03-20.73 m 0.70 m Au trace, Ag trace
		20.88-20.94 m pyrite along fractures, 2-3% disseminated pyrrhotite, local rust on fractures
		20.94-21.28 m medium-grey with some lighter and darker bands to 1 cm thick, up to 30% dark minerals in mosaic of whitish green, local layers with 5% biotite, 2-3% disseminated pyrrhotite, abundant pyrite on rusty fracture surfaces, some in cubes to 2 mm, local layers with black lithic fragments to 3 mm
		21.24 m 4-cm layer of whitish tuff
		21.28-21.37 m vitrophyric rhyolite tuff, few grains disseminated pyrrhotite
		21.37-21.52 m medium-grey, banded, grain size to 1 mm, 3-cm layer with biotite
		21.52-21.92 m whitish, up to 10-20% glassy matrix, copious pyrite and pyrrhotite in grains to 2-3 mm on fracture surface, calcite-filled fractures ¼ mm thick
		21.92-22.25 m 0.33 m lost core

Metrage	Interval	Description
		SAMPLE 4427 20.73-22.25 m 1.19 m (omitting lost core) Au trace, Ag 2.0 ppm, Cu 270 ppm, Pb 101 ppm, Zn 73 ppm, As 9.4 ppm Check of pulp: Au not detected
		22.25-22.54 m odd cube of pyrite to 2 mm
		22.54-23.16 m 0.62 m lost core
		23.16-23.45 m 1% pyrrhotite in grains to ½ mm in a 1-cm layer
		23.45-23.47 m 0.02 m lost core
		SAMPLE 4428 22.25-23.47 m 0.58 m (omitting lost core) Au trace, Ag 1.5 ppm, Cu 144 ppm, Pb 82 ppm, Zn 96 ppm, As 6.9 ppm Check of pulp: Au trace, Ag 0.06 oz/ton (2.1 ppm)
		23.47-23.63 m 0.16 m lost core
23.63-25.45	1.82	Vitrophyric rhyolite tuff, light-grey, similar to previous
		23.63-24.20 m 0.57 m lost core
		24.20-24.69 m less than 1% sulfide grains to 0.2 mm in size
		24.69-24.99 m sparse sulfide grains 0.1-0.2 mm in size, dark-brownish rusty grains on fracture surfaces and possibly disseminated
		24.99 m only 20-30% glassy matrix
		SAMPLE 4429 24.20-24.99 m 0.79 m Au trace, Ag 2.0 ppm Cu 91 ppm, Pb 62 ppm, Zn 51 ppm, As 8.6 ppm Check of pulp: Au trace, Ag 0.10 oz/ton (3.4 ppm)
		24.99-25.41 m glassy matrix decreasing
		25.41-25.45 m 0.04 m lost core
25.45-37.20	11.75	Rhyolite tuff, medium-grey, 60-70% whitish grains in darker matrix with some dark minerals, heavy black coatings on fracture surfaces with some sulfides
		25.55 m and downhole layers of light-grey rhyolitic and vitrophyric tuff to 2 cm thick, abundant pyrite or pyrrhotite on some fracture surfaces, very minor disseminated pyrrhotite, calcite-filled fractures ¼ mm thick, odd bit of greenish copper-like tint, intercalated with minor vitrophyric tuff

Metrage	Interval	Description

SAMPLE 4430 24.99-26.52 m 1.35 m (omitting lost core)
Au trace, Ag 1.4 ppm, Cu 110 ppm, Pb 84 ppm,
Zn 35 ppm, As 9.4 ppm
Check of pulp: Au not detected

SAMPLE 4163 (taken in 1983) 26.02-26.37 m 0.35 m Au < 1 ppb
Ag 0.1 ppm

26.52-26.74 green-grey, distinct but not prominent layering at about 90° to core axis, up to 10% glassy matrix, black and brown coatings on fractures, few sulfide grains on fractures, one calcite-filled fracture 4 mm wide parallel to core axis

26.74-26.82 m 0.08 m lost core

26.82-27.05 m light-grey, mostly fine white grains with 1% or so of a dark, streaky mineral, greenish-buff-brown material on fracture surfaces, indistinct layering, very sparse pyrite grains 0.1-0.2 mm in size

27.05-27.74 m 0.69 m lost core

27.74-28.15 m biotite-bearing fragments with few per cent fine pyrite on rusty fracture surfaces with calcite, black-coated fracture surfaces, vitrophyric fragments with odd grain of disseminated chalcopyrite, other fragments with very abundant pyrite, some fine and some in cubes to 1-2 mm

28.15-28.35 m medium-grey with 20% dark minerals, minor disseminated sulfides, abundant pyrite on rusty fracture surfaces, calcite-filled fractures to ½ mm

SAMPLE 4164 (selected chips with abundant sulfides on fracture, taken in 1983) 27.74-28.35 m 0.61 m Au < 1 ppb
Ag 0.1 ppm

SAMPLE 4431 26.52-28.35 m 1.06 m (omitting lost core)
Au 2.416 oz/ton (82.8 ppm), Ag 0.07 oz/ton (2.4 ppm),
Cu 84 ppm, Pb 66 ppm, Zn 129 ppm, As 9.7 ppm,
Te < 0.2 ppm
Check of pulp: Au 0.004 oz/ton (0.14 ppm),
Ag 0.18 oz/ton (6.2 ppm)
Recheck of pulp: Au 0.002 oz/ton (0.07 ppm)

Metrage	Interval	Description
		Check of reject (sample 4495) Au trace,
		Ag 0.16 oz/ton (5.5 ppm)
		Recheck of reject (sample 4496) Au trace,
		Ag 0.12 oz/ton (4.1 ppm)
	28.35-28.81 m	medium-grey, locally with 10-20% glassy matrix, 3-4% disseminated pyrrhotite in grains to 2-3 mm in a few layers 2 cm thick, brown film on fracture surfaces with sparse pyrite to 0.1 mm in size and the odd larger pyrite cube
	28.81-28.96	0.15 m lost core
	28.96-29.01 m	medium-grey, 2-3% disseminated pyrrhotite and odd grain of chalcopyrite, sulfides with black and brown coatings on fracture surfaces locally abundant with pyrite cubes to 1-2 mm, irregular smears and masses of pyrite 1-2 mm wide and up to 1 cm long
	29.17 m	irregular fracture to 15 mm wide, filled with white calcite
	29.25 m	50% brecciated whitish fragments to 5-10 mm in size in dark matrix
	29.31-29.72 m	0.41 m lost core
	29.72-30.14 m	2-3% pyrrhotite in aggregates to 3 mm scattered throughout, brown-coated fracture surfaces common, local fracture surfaces with abundant pyrrhotite and odd aggregate of chalcopyrite, increasing biotite-like mineral downhole
	30.14-30.39 m	vitrophyric tuff almost devoid of sulfides
	30.44-31.09 m	0.65 m lost core
SAMPLE 4432	28.35-31.09 m	1.53 m (omitting lost core) Au trace,
		Ag 2.0 ppm, Cu 143 ppm, Pb 48 ppm, Zn 35 ppm,
		As 9.8 ppm
	31.09-31.31 m	mostly vitrophyric tuff, medium- to dark-grey, banded, sparse or no sulfides
	31.31-31.37 m	0.06 m lost core
	31.37-31.45 m	mostly vitrophyric tuff, similar to previous
	31.45-32.16 m	medium- to dark-grey, 1-2% disseminated pyrrhotite with few aggregates to 5 mm scattered throughout, dark-brown to black coating on fracture surfaces locally with abundant clots of pyrrhotite, few veins 1 mm thick parallel to core axis with anhedral pyrite, copious pyrite in irregular grains and cubes to ½ mm on a few fracture surfaces, lighter-grey toward bottom of interval

Metrage	Interval	Description
		SAMPLE 4433 31.09-32.16 m 1.01 m (omitting lost core) Au trace, Ag 1.5 ppm, Cu 98 ppm, Pb 28 ppm, Zn 46 ppm, As 5.4 ppm Check of pulp: Au not detected
		32.16-32.28 m becoming vitrophyric but with 1-2% disseminated chalcopyrite
		32.28-32.46 m 0.18 m lost core
		32.46-32.68 m medium-grey, 1-2% disseminated pyrrhotite in aggregates to 2 mm and along laminae, pyrite cubes to ½ mm and anhedral pyrite smears on rusty-brown fracture surfaces along with abundant pyrrhotite, hair-line cracks with calcite
		32.68-32.92 m 0.24 m lost core
		32.92-33.12 m dark-grey vitrophyric tuff, 60-70% whitish crystals to ½ mm in size in darker-grey glassy matrix, very sparse disseminated pyrrhotite, local fracture surfaces with slight rust
		33.12-33.22 m 0.10 m lost core
		33.22-33.57 m dark-grey vitrophyric tuff as previous, local fractures with pyrite and other sulfides
		33.57-33.99 m 0.42 m lost core
		SAMPLE 4434 32.16-33.99 m 0.89 m (omitting lost core) Au trace, Ag 1.6 ppm, Cu 118 ppm, Pb 44 ppm, Zn 50 ppm, As 5.2 ppm, Te < 0.2 ppm Check of pulp: Au not detected
		33.99-34.12 m 2-4% disseminated pyrite in grains to 1 mm in size some cubic and some anhedral, pyrite also along fractures, minor pyrrhotite with calcite along ¼ mm fractures, one fragment with 2-3% pyrrhotite and partly rusty fracture surfaces, one fragment with 1% disseminated calcite and minor pyrite
		SAMPLE 4165 (selected pyrite-bearing chips; taken in 1983) 33.99-34.12 m 0.13 m Au 2 ppb, Ag 0.1 ppm
		34.12-34.22 m 0.10 m lost core
		34.22-34.75 m light- and medium-grey vitrophyric tuff similar to previous with glassy matrix decreasing in amount downhole, mostly free of sulfides but odd fragment with very sparse disseminated chalcopyrite, slight rust on few fracture surfaces

Metrage	Interval	Description

SAMPLE 4166 (taken in 1983) 34.22-34.75 m 0.53 m

Au 1 ppb, Ag 0.1 ppm, Hg 20 ppb

34.75-34.97 m white interlocking grains in 20% glassy matrix, 1% disseminated pyrrhotite, rusty coatings on some fracture surfaces, few fragments with 3-4% disseminated pyrrhotite, some as smears on fracture surfaces

SAMPLE 4167 (taken in 1983) 34.75-34.97 m 0.22 m

Au 1 ppb, Ag 0.1 ppm

34.97-35.05 m 0.08 m lost core

35.05-35.31 m darker-grey, up to 5% finely disseminated pyrrhotite, fractures to ½ mm with pyrite and heavy rust, few lighter-grey bands 5-8 mm thick

SAMPLE 4168 (taken in 1983) 35.05-35.31 m 0.26 m

Au 1 ppb, Ag 0.1 ppm

35.31-35.36 m 0.05 m lost core

35.36-35.70 m dark-grey vitrophyric tuff similar to previous, rust and pyrite as cubes and very fine on fracture surfaces, few fragments with odd disseminated pyrite cubes to ½ mm, one fragment with whitish rhyolite layer 15 mm thick, calcite-filled hairline fractures

SAMPLE 4169 (taken in 1983) 35.36-35.70 m 0.34 m

Au 1 ppb, Ag 0.1 ppm

35.70-35.94 m similar to previous interval but lighter-grey with few grains disseminated calcite, sparse disseminated pyrite in grains to ½ mm, minor pyrite on fractures 1 mm or so wide, minor rust on fracture surfaces, crumbly darker-grey layers with abundant sulfides including pyrite on fractures and possibly disseminated

SAMPLE 4170 (taken in 1983) 35.70-35.94 m 0.24 m

Au 1 ppb, Ag 0.1 ppm

35.94-35.97 m 0.03 m lost core

35.97-36.21 m very abundant pyrite along fractures including one 3 mm thick, some fractures rusty, some coated black, minor disseminated pyrrhotite, calcite-filled fractures, very scarce disseminated calcite, alternating lighter- and darker-grey bands 5 mm-6 cm thick

SAMPLE 4171 (taken in 1983) 35.97-36.21 m 0.24 m

Au < 1 ppb, Ag 0.1 ppm

Metrage	Interval	Description
		SAMPLE 4435 33.99-36.21 m 1.96 m (omitting lost core) Au 0.604 oz/ton (20.7 ppm), Ag 0.70 oz/ton (24.0 ppm) Cu 106 ppm, Pb 55 ppm, Zn 63 ppm, As 11.2 ppm, Te < 0.2 ppm Check of pulp: 0.62 oz/ton (21.2 ppm), Ag 0.10 oz/ton (3.4 ppm)
		36.21-36.27 m 0.06 m lost core
		36.27-36.42 m medium-grey vitrophyric tuff similar to previous, 20-30% glassy matrix
		36.42-36.56 m minor disseminated pyrrhotite, black and rusty coatings on fracture surfaces locally with pyrite, 1-2% disseminated calcite, calcite-filled fractures
		SAMPLE 4172 (taken in 1983) 36.27-36.56 m 0.29 m Au < 1 ppb, Ag 0.1 ppm
		36.56-36.88 m 0.32 m lost core
		36.88-37.00 m medium-grey vitrophyric tuff, similar to previous, sulfides absent
		37.00-37.20 m interlocking mosaic of whitish grains in a greenish matrix of other minerals, rust and black on fracture surfaces locally with pyrite, perhaps 1% disseminated pyrite, abundant disseminated calcite locally
		37.20 m fault?, white calcite vein to 8 mm with slickensided black material, rust and pyrite on fractures
		SAMPLE 4173 (taken in 1983) 37.00-37.20 m 0.20 m Au 1 ppb, Ag 0.1 ppm
37.20-43.89	6.69	Calcitic rhyolite tuff
		37.20-37.34 m dark-grey, white grains in darker fine-grained matrix, locally very abundant disseminated calcite, 2-3% disseminated anhedral pyrite increasing to 10% at bottom of interval, locally abundant pyrite on fracture surfaces
		SAMPLE 4174 (taken in 1983) 37.20-37.34 0.14 m Au 5 ppb, Ag 0.1 ppm
		SAMPLE 4436 36.27-37.34 m 0.75 m (omitting lost core) Au 0.052 oz/ton (1.8 ppm), Ag 0.10 oz/ton (3.4 ppm), Cu 66 ppm, Pb 57 ppm, Zn 44 ppm, As 10.6 ppm Check of pulp: Au 0.055 oz/ton (1.9 ppm)

Metrage	Interval	Description

37.34-37.49 m 0.15 m lost core

37.49-38.21 m light- to medium-grey, 1% disseminated pyrrhotite and anhedral pyrite, pyrite along fractures locally abundant, rust- or black-coated fractures, up to 20% disseminated calcite in some bands, nil in others

37.68-37.76 m brecciated fragments to 3-4 cm cemented by irregular white dolomite up to 2 cm thick

37.79 m disseminated pyrite in aggregates to 2 mm, also on black-coated fractures, more abundant in lowest 15 cm

SAMPLE 4175 (taken in 1983) 37.49-38.21 m 0.72 m

Au 3 ppb, Ag 0.1 ppm

38.21-38.33 m 0.12 m lost core

38.33-39.01 m locally highly calcitic as if volcanic ash had fallen into limestone, few irregular white calcite veins to 2 cm, local intervals with up to 3% pyrite most anhedral but some in cubes to 3 mm in size, medium-brown and black coatings on fracture surfaces

38.56 m tuff lapilli in light-grey limestone with few elongated spots of white calcite to 5 mm in size along one layer, irregular white calcite veins to 1½ cm thick

38.71 m limestone as above locally with 2-3% disseminated euhedral pyrite in grains to ½ mm, irregular fragments of medium-grey limestone with sharp contact at 45° with light-buff-grey limestone

38.95 m abundant disseminated pyrite in buff-grey limestone 1-cm interval of dark-grey with 2-3% disseminated pyrrhotite in aggregates to 2-3 mm, below tuff-grey limestone with 1-2% disseminated pyrite some in cubes to 3 mm in size, one layer of limestone free from pyrite

SAMPLE 4501 (taken in 1983) 38.33-39.01 m 0.68 m

Au < 1 ppb, Ag 0.1 ppm

SAMPLE 4437 37.49-39.01 m 1.40 m (omitting lost core)

Au 0.018 oz/ton (0.6 ppm), Ag 0.09 oz/ton (3.1 ppm),
Cu 65 ppm, Pb 48 ppm, Zn 62 ppm, As 7.4 ppm
Check of pulp: Au 0.041 oz/ton (1.4 ppm)
Ag 0.05 oz/ton (1.7 ppm)

Metrage	Interval	Description

39.01-39.10 m medium- to dark-grey, 1-2% disseminated pyrite in cubes to 1 mm, abundant pyrite some in cubes on rusty fractures, some fragments with 20-40% disseminated calcite, hairline fractures filled with calcite

SAMPLE 4502 (taken in 1983) 39.01-39.10 m 0.09 m
Au < 1 ppb, Ag 0.1 ppm

39.10-39.17 m 0.07 m lost core

39.17-39.62 m dark-grey, pyrite on rusty and black-coated fractures, minor disseminated pyrite in grains to ¼ mm, brown earthy material along some fractures, variable amounts of calcite decreasing downhole and increasing again at 39.47 m, 2-cm band of limestone in one fragment, some fragments of vitrophyric tuff, white calcite veins to 1 cm, banded medium- and light-grey near bottom of interval with 1% disseminated pyrrhotite

39.41 m disseminated chalcopyrite in one fragment

SAMPLE 4503 (taken in 1983) 39.17-39.62 m 0.45 m
Au < 1 ppb, Ag 0.1 ppm

39.62-40.54 m 10-40% disseminated calcite, very minor disseminated sulfides - mostly pyrrhotite less pyrite, some on dark-brown or black fracture surfaces, sulfides decreasing downhole

40.25 m lighter- and darker-grey laminae 3 mm thick, very sparse chalcopyrite

40.25-40.33 m 0.08 m lost core

40.33-40.54 m same as previous interval, sparse chalcopyrite in one 1-cm layer, part resembles micritic limestone

SAMPLE 4504 (taken in 1983) 39.62-40.54 m 0.84 (omitting lost core) Au < 1 ppb, Ag 0.1 ppm

SAMPLE 4438 39.01-40.54 m 1.38 m (omitting lost core)
Au 0.042 oz/ton (1.4 ppm) Ag 0.06 oz/ton (2.1 ppm),
Cu 77 ppm, Pb 55 ppm, Zn 85 ppm, As 17.0 ppm
Check of pulp: Au 0.011 oz/ton (0.38 ppm)

Metrage	Interval	Description

40.54-42.06 m calcite abundant in some layers, absent in others, mostly devoid of sulfides but up to 3% disseminated pyrrhotite in a few short intervals, minor pyrrhotite with dark-brown coatings on most fracture surfaces, but one with 5% pyrrhotite and chalcopyrite, one layer 2-3 cm thick with 10% pyrrhotite and abundant pyrrhotite on adjacent dark-brown fractures

40.84 m highly calcitic layer with shard-like clasts 5 mm long, only 10% calcite in layer below

41.15 m 1-cm highly calcitic layer with 1% disseminated pyrite, 5% pyrite on dark-brown fracture surface

41.21 m sharp contact with highly calcitic layer above and buff-grey tuff below, minor disseminated pyrite in tuff with less on brown-coated fracture surfaces, calcite disseminated in tuff and along fractures to 4 mm wide with 1-2% pyrite

41.45 m 10-15% disseminated calcite and along fractures with 3-5% pyrite, less pyrite in grains to ½ mm disseminated through tuff, prominent contact between lighter- and darker-grey at 60^{o} to core axis

41.61 m minor calcite in hairline fractures and disseminated in tuff, dark-brown coatings on fractures

41.81 m 10% disseminated calcite with odd grain of pyrite to 1 mm

41.86 m 2-3% pyrite on fractures

42.06 m 3-5% pyrite along fractures, 20-30% calcite

SAMPLE 4505 (taken in 1983) 40.54-42.06 m 1.52 m
Au 1 ppb, Ag 0.1 ppm, Hg 20 ppb

SAMPLE 4439 40.54-42.06 m 1.52 m Au 0.032 oz/ton, (1.1 ppm),
Ag 0.01 oz/ton (0.3 ppm), Cu 119 ppm, Pb 65 ppm,
Zn 198 ppm, As 21.6 ppm
Check of pulp: Au < 0.002 oz/ton (< 70 ppb),
Ag 0.02 oz/ton (0.7 ppm)
Recheck of pulp: Au 0.011 oz/ton (0.38 ppm)

Metrage	Interval	Description
		42.06-43.28 m similar to previous interval, odd layer 2-3 cm thick with 20% disseminated pyrrhotite, pyrrhotite on adjacent fractures, chalcopyrite on some fractures, one 10-cm layer with 1% disseminated chalcopyrite, only calcitic in upper 10 cm but calcite-filled hairline cracks below, odd bit of cubic pyrite on fracture surfaces in lower part of interval increasing downhole to 5% on some surfaces
		42.21 m laminae with different shades of grey at 85° to core axis
		SAMPLE 4506 (taken in 1983) 42.06-42.87 m 0.81 m
		Au 25 ppb, Ag 0.1 ppm, Hg 20 ppb
		SAMPLE 4507 (taken in 1983) 42.87-43.28 m 0.41 m
		Au 1 ppb, Ag 0.1 ppm, Hg 50 ppb
		43.28-43.59 m similar to previous interval, 16-mm layer with abundant calcite and 5-10% disseminated anhedral pyrite, 5-10% calcite in some lower layers with 1% disseminated pyrrhotite, 30-40% calcite in lowest 3 cm, some layers devoid of calcite
		SAMPLE 4508 (taken in 1983) 43.38-43.395 m 0.015 m
		Au 1 ppb, Ag 0.1 ppm
		SAMPLE 4440 42.06-43.59 m 1.53 m Au trace, Ag 1.7 ppm,
		Cu 142 ppm, Pb 68 ppm, Zn 64 ppm, As 12.1 ppm
		Check of pulp: Au 0.002 oz/ton (68 ppb),
		Ag 0.05 oz/ton (1.7 ppm)
		43.59-43.89 m similar to previous interval, 10-20% disseminated calcite, yellow-brown coating on fracture surfaces, odd bit of disseminated pyrrhotite
		43.74 m 5% pyrite on fracture surface
43.89-45.11	1.22	Rhyolite tuff, light-grey, similar to previous
		43.89-44.14 m 1-2% disseminated pyrrhotite in one fragment, pyrite 1 mm thick on one fracture
		44.14-44.20 m 0.06 m lost core

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Metrage	Interval	Description
		44.20-44.62 m 1% disseminated pyrrhotite, pyrite some in cubes along fractures, rusty fracture surfaces, hairline cracks filled with calcite, 3-5% disseminated pyrrhotite in a 16-cm layer with pyrrhotite and odd chalcopyrite on rusty fracture surface
		SAMPLE 4441 43.59-44.62 m 0.97 m (omitting lost core) Au trace, Ag 2.0 ppm, Cu 115 ppm, Pb 62 ppm, Zn 37 ppm, As 23.5 pm Check of pulp: Au trace, Ag 0.04 oz/ton (1.4 ppm)
		44.62-45.11 m 0.49 m lost core
45.11-61.87	16.76	Vitrophyric rhyolite tuff, light-grey, similar to previous vitrophyric tuff, variable amounts of disseminated pyrrhotite, banded
		45.11-45.23 m much less than 1% disseminated pyrrhotite
		45.23-45.55 m lighter- and darker-grey bands ½-1½ cm thick, hairline calcite-filled fractures, sparse disseminated pyrrhotite in one fragment, minor pyrrhotite along a fracture
		45.55-46.26 m only 10% glassy matrix in upper 5 cm, 1% disseminated pyrrhotite, minor rust on fractures, odd buff layer 1 cm thick at 90% to core axis with minor disseminated calcite and calcite-filled fractures, up to 10-15% very finely disseminated pyrrhotite in a darker-grey layer 20 cm thick, with buff lapilli 4 cm in size with less disseminated pyrrhotite, odd grain of disseminated chalcopyrite, sparse pyrrhotite in lowest 4 cm
		46.26-46.33 m 0.07 m lost core
		46.33-46.60 m about 1% disseminated pyrrhotite, local orange-brown rust on fracture surfaces
		SAMPLE 4442 45.11-46.60 m 1.42 m (omitting lost core) Au trace, Ag 2.1 ppm, Cu 115 ppm, Pb 80 ppm, Zn 29 ppm, As 9.5 ppm Check of pulp: Au trace, Ag 0.06 oz/ton (2.1 ppm)
		46.60-46.63 m 0.03 m lost core
		46.63-46.92 m very sparse sulfides and rust
		46.92-46.94 m 0.02 m lost core

Metrage	Interval	Description
		46.94-47.24 m darker-grey from higher pyrrhotite content
		47.24-47.55 m 0.31 m lost core
		47.55-48.16 m light-olive-grey, mostly crystallized not vitrophyric, 20-30% calcite, slightly rusty fracture surfaces
		47.73-48.16 m 5-10% disseminated pyrrhotite in aggregates to 4 mm, 50% or more calcite, heavy rust on fracture surfaces, disseminated pyrite and 5-10% pyrite on local fracture surfaces, calcite decreasing in lowest 10 cm and rock becoming vitrophyric
		SAMPLE 4509 (taken in 1983) 47.73-48.16 m 0.43 m Au 1 ppb, Ag 0.1 ppm
		SAMPLE 4492 46.63-48.16 m 1.20 m (omitting lost core) Au trace, Ag 0.06 oz/ton (2.1 ppm)
		48.16-48.72 m vitrophyric for 13 cm then mostly crystallized, 5-10% disseminated pyrrhotite, heavy rust on fracture surfaces, 10-20% calcite at 48.35 m
		48.42 m typical vitrophyric, very fine disseminated pyrrhotite, then alternating crystallized and calcitic vitrophyric, 20% sulfides mostly pyrrhotite but some pyrite with heavy rust on fracture surfaces
		48.72-48.92 m 0.20 m lost core
		48.92-49.15 m similar to previous interval, odd aggregate of chalcopyrite
		SAMPLE 4510 (taken in 1983) 48.16-49.15 m 0.79 m (omitting lost core) Au < 1 ppb, Ag 0.1 ppm
		49.15-49.68 m fractures to 15 mm wide filled with white calcite, minor disseminated calcite, up to 5% pyrite disseminated and along fractures, brecciated and cemented with white sandy and clayey matrix in lowest 10 cm
		SAMPLE 4511 (taken in 1983) 49.15-49.68 m 0.53 m Au 1 ppb, Ag 0.1 ppm
		SAMPLE 4443 48.16-49.68 m 1.38 m (omitting lost core) Au 0.032 oz/ton (1.1 ppm), Ag 0.02 oz/ton (0.7 ppm), Cu 86 ppm, Pb 77 ppm, Zn 37 ppm, As 7.8 ppm Check of pulp: Au 0.004 oz/ton (137 ppb)

Metrage	Interval	Description

49.68-50.59 m medium-grey, intercalated with light-grey crystallized tuff in layers 3-30 mm thick, 10-30% disseminated calcite throughout and along hairline fractures except for lowest 50 cm, 5% calcite in lowest 15 cm absent above, up to 10% finely disseminated pyrrhotite decreasing in lowest 50 cm, minor rust on fractures

SAMPLE 4512 (taken in 1983) 49.68-49.94 m 0.26 m
Au < 1 ppb, Ag 0.1 ppm

SAMPLE 4481 49.68-50.59 m 0.91 m Au trace, Ag 0.06 oz/ton (2.1 ppm)

50.59-51.21 m 0.62 m lost core

51.21-52.02 m intercalated medium- and light-grey laminae, about 50% glassy matrix, 5-10% disseminated calcite, 1-5% disseminated pyrrhotite decreasing downhole, rusty fracture surfaces, calcite-filled hairline fractures

SAMPLE 4480 51.21-52.02 m 0.81 m Au trace, Ag 0.02 oz/ton (0.7 ppm)

52.02-52.73 m 0.71 m lost core

52.73-53.13 m crystallized, medium-grey, 1-4% disseminated pyrrhotite in grains to 2 mm, abundant calcite-filled hairline cracks and up to 10 mm wide

53.01-53.06 m abundant pyrite in fractures to 2 mm thick

53.13-53.42 m medium-grey, 20% crystallites in glassy matrix, less than ½% finely disseminated pyrrhotite in one or two layers 1-2 cm thick

53.42-53.95 m 0.53 m lost core

53.95-54.15 m similar to interval above, up to 5% finely disseminated pyrrhotite, massive pyrite in fractures to 2 mm thick comprising perhaps 2-3% rock, minor calcite along fractures

SAMPLE 4479 52.73-54.15 m 0.89 m (omitting lost core)
Au trace, Ag 0.04 oz/ton (1.4 ppm)

54.15-54.25 m 0.10 m lost core

54.25-54.60 m similar to interval above, 30-40% crystallites in glassy matrix, pyrite-filled fractures decreasing downhole

54.60-54.86 m 0.26 m lost core

Metrage	Interval	Description
		54.86-55.14 m similar to interval above, less glassy matrix, crystallites to 1 mm in size, some calcitic, less pyrrhotite
		55.14-55.82 m vitrophyric as previous, up to 70-80% glassy matrix, some crystallites calcitic, mostly less than 1% finely disseminated pyrrhotite, 5-10% pyrite on rusty fracture surfaces, locally conspicuous banding
	SAMPLE 4444	54.25-55.82 m 1.31 m (omitting lost core) Au trace, Ag 1.6 ppm, Cu 21 ppm, Pb 51 ppm, Zn 29 ppm, As 10.1 ppm Check of pulp: Au 0.002 oz/ton (68 ppb), Ag 0.06 oz/ton (2.1 ppm)
		55.82-56.49 m vitrophyric as previous, pyrrhotite almost absent locally, up to 10% elsewhere, slightly rusty fracture surfaces
		56.49-57.46 m vitrophyric as previous, 5-10% pyrite but minor in upper 4 cm, few darker-grey bands to 5 mm thick, up to 10% finely disseminated pyrrhotite locally
	SAMPLE 4478	55.82-57.00 m 1.18 m Au trace, Ag 0.02 oz/ton (0.7 ppm)
		57.46-57.86 m vitrophyric as previous, few layers of lighter-grey up to 5 mm thick of more crystallized tuff, few calcitic crystallites
		57.86-58.11 m vitrophyric locally, local fractures with abundant pyrite
	SAMPLE 4477	57.00-57.92 m 0.92 m Au trace, Ag 0.04 oz/ton (1.4 ppm)
		58.11-58.22 m 0.11 m lost core
		58.22-58.44 m vitrophyric as previous, up to 5% pyrrhotite some in aggregates to 1-2 mm
		58.44-58.52 m 0.08 m lost core
		58.52-59.02 vitrophyric as previous, up to 5% pyrrhotite, mostly finely divided, some rust and pyrite to 1 mm thick on fracture surfaces, few calcitic crystallites, calcite in hairline fractures, few lighter-grey layers to 5 mm thick of crystallized tuff

Metrage	Interval	Description
		SAMPLE 4476 57.92-58.83 m 0.72 m (omitting lost core) Au trace, Ag 0.36 oz/ton (12.3 ppm)
		59.02-59.32 m vitrophyric as previous, pyrrhotite aggregates to 2 mm in size
		59.32-60.35 m 1.03 m lost core
		60.35-60.63 m vitrophyric as precious, up to 5-10% very finely disseminated pyrrhotite, lighter-grey layers 3-4 cm thick almost completely crystallized, pyrite on fracture surfaces
		SAMPLE 4450 58.83-60.63 m 0.77 m (omitting lost core) Au trace, Ag 0.06 oz/ton (2.1 ppm)
		60.63-60.66 m 0.03 m lost core
		60.66-61.78 m vitrophyric as previous, locally up to 10% very finely disseminated pyrrhotite, moderate pyrite locally on fracture surfaces, few calcitic crystallites, local layers free from glassy matrix, layers with 10-20% white crystallites to 1 mm in size surrounded by glassy envelope 1-2 mm thick free of crystallites, pyrite to 1 mm thick on few fracture surfaces, aggregates of pyrrhotite on other fracture surfaces, local aggregates of pyrrhotite to 2 cm in size associated with calcite
		SAMPLE 4449 60.66-61.57 m 0.91 m Au trace, Ag 0.06 oz/ton (2.1 ppm)
		61.78-61.82 m vitrophyric as previous, up to 30-40% pyrrhotite, abundant calcite both disseminated and in fractures, pyrite disseminated and in fractures
		61.82-61.87 m glassy?, light-greenish-grey to whitish, altered and dull, cut by many calcite veins to 2 mm thick, 2-3% pyrrhotite both disseminated and in veins, area about 1 cm long with faint greenish color resembling copper stain, chloritic slickensides at 60° to core axis, vitrophyric fragment with less than 1% pyrrhotite
61.87-62.78	0.91	Altered tuff?, light-greenish-grey, earthy friable, calcitic, crystals and fragments, few white clots to 1 cm, no sulfides; numerous shear surfaces at irregular angles - partly serpentinized?, possibly fragments of vitrophyric tuff to 1-2 cm in a calcitic matrix

Metrage	Interval	Description
		61.97-62.03 m mostly crystallized light-grey tuff, up to 1% disseminated pyrrhotite, no calcite
		62.03-62.10 m dark-grey, interlocking mosaic of white and dark grains to about ½ mm in size, less than 1% disseminated pyrrhotite, few calcite stringers, possibly a bomb
		62.10-62.14 m earthy, calcite-cemented tuff fragments
		62.14-62.20 m fresher, calcite-filled hairline fractures
		62.20-62.30 m dark-grey interlocking mosaic as previous, white dolomite vein 8 mm thick at 30° to core axis
		62.30-62.78 m alternating calcite-cemented earthy vitrophyric fragments and 75% dark-grey tuff with interlocking mosaic at least 4 cm thick, much dark-grey tuff calcitic with less than 1% pyrrhotite, few light-grey layers 3-4 mm thick at 85° to core axis, calcite-filled fractures in dark-grey tuff
		62.78 m slickensides at 50° to core axis
62.78-62.93	0.16	Intermediate tuff, dark-grey, some salt-and-pepper appearance, grain size to 1-2 mm, dark (hornblende) and white (quartz and feldspar) crystals, very sparse disseminated pyrite, 10-30% calcite and calcite-filled fractures
62.93-63.26	0.33	Vitrophyric rhyolite tuff, highly fractured with calcite filling, 1% disseminated pyrrhotite, white dolomite veins 2-3 mm thick at 50° to core axis with abundant irregular shear surfaces at about same angle, grading down to dark-grey intermediate tuff similar to previous
		SAMPLE 4445 61.57-63.09 m 1.52m Au trace, Ag 2.4 ppm, Cu 90 ppm, Pb 62 ppm, Zn 60 ppm, As 9.7 ppm
		63.26-63.40 m 0.14 m lost core
63.40-64.82	1.42	Intermediate tuff, dark-grey, interlocking mosaic of white and dark grains to about ½ mm in size, 10-30% disseminated calcite, less than 1% disseminated pyrrhotite
		63.73 m brecciated and sheared, earthy
		63.93-64.00 m brecciated and sheared, earthy
		64.50 m vitrophyric as previous, grading down into crystallized tuff with up to 10% finely disseminated pyrrhotite, calcite-filled fractures and some disseminated calcite

Metrage	Interval	Description
		SAMPLE 4446 63.09-64.62 m 1.39 m (omitting lost core) Au trace, Ag 2.3 ppm, Cu 77 ppm, Pb 43 ppm, Zn 46 ppm, As 18.7 ppm Check of pulp: Au 0.002 oz/ton (68 ppb)
64.82- 69.49	4.67	Vitrophyric rhyolite tuff, as previous, light-grey, variable amounts of calcite and pyrrhotite, intercalated intermediate tuff and rhyolite tuff 64.82-65.50 m lighter-grey bands with less glassy matrix 1-2 cm thick, 1-2% disseminated pyrrhotite, calcite-filled hairline fractures, pyrite on local fracture surfaces SAMPLE 4447 64.62-65.53 0.91 m Au trace, Ag 0.30 oz/ton (10.3 ppm) 65.50-66.07 m mostly layers of dark-grey intermediate tuff with up to 10-30% disseminated calcite 66.07-66.13 m vitrophyric as previous, many calcite-filled fractures and irregular pyrite veins to 4 mm thick 66.13-66.33 m vitrophyric as previous, 2-3% disseminated pyrrhotite, many calcite-filled fractures SAMPLE 4448 65.53-66.33 m 0.80 m Au trace, Ag 0.04 oz/ton (1.4 ppm) 66.33-66.45 m 0.12 m lost core 66.45-66.55 m vitrophyric as previous, calcite-filled fractures, up to 5% finely disseminated pyrrhotite, pyrite on fractures 66.55-67.65 m fine-grained, crystallized rhyolite tuff, dark-greenish grey, up to 20-30% disseminated calcite, black coatings on frature surfaces, some fractures almost parallel to core axis, other at 70^{0}, weak, locally capable of breaking between fingers, 1-2% finely disseminated pyrrhotite 67.06-67.27 m odd bit of chalcopyrite associated with up to 1% disseminated pyrrhotite 67.42 m layers with up to 10% finely disseminated pyrrhotite 67.82-67.97 m vitrophyric as previous

Metrage	Interval	Description
		SAMPLE 4045 66.45-67.97 m 1.52 m Au < 0.002 oz/ton (< 68 ppb) Ag < 0.05 oz/ton (<1.7 ppm)
		67.97-69.37 m vitrophyric as previous, few bands of lighter-grey crystallized rhyolite tuff to 10 mm thick, 2-3% disseminated pyrrotite locally to 10%, calcite-filled fractures, pyrite and pyrrhotite locally on fractures
		68.08 m minor chalcophyrite associated with pyrrhotite
		SAMPLE 4046 67.97-69.37 m 1.40 m Au 0.002 oz/ton (68 ppb) Ag < 0.05 oz/ton (<1.7 ppm)
		69.37-69.49 m 0.12 m lost core
69.49		End of hole

DRILL RUNS

Run		Recovery (m)	Character
Box 1 1.83-12.19 m			
1.83-2.44 m	(6'-8')	0.61	nearly all rubble
2.44-4.27	(8'-14')	0.94	2.44-2.73 m rubble; 2.73-2.97 m reasonably intact core; 2.97-3.26 m rubble; 3.26-3.38 m intact core
4.27-5.18	(14'-17')	0.50	reasonably intact core with some rubble
5.18-7.01	(17'-23')	0.60	nearly all rubble
7.01-7.32	(23'-24')	0.26	all rubble
7.32-8.23	(24'-27')	0.75	mixture of rubble and intact core
8.23-8.53	(27'-28')	0.35	intact core
8.53-8.99	(28'-29½')	0.30	half intact core, half rubble
8.99-9.30	(29½'-30½')	0.06	intact core
9.30-9.60	(30½'-31½')	0.27	all rubble
9.60-10.06	(31½'-33')	0.13	all rubble
10.06-10.52	(33'-34½')	0.30	one-third intact core, two-thirds rubble
10.52-10.67	(34½'-35')	0.035	one piece
10.67-11.28	(35'-37')	0.26	half intact core, half rubble
11.28-11.58	(37'-38')	0.29	mostly intact core
11.58-11.89	(38'-39')	0.23	mostly intact core
11.89-12.19	(39'-40')	0.34	mostly intact core
		6.225	

Run		Recovery (m)	Character
Box 2 12.19-19.20 m			
12.19-12.50	(40'-41')	0.17	intact core
12.50-12.80	(41'-42')	0.24	intact core
12.80-13.11	(42'-43')	0.22	intact core
13.11-13.41	(43'-44')	0.53	intact core
13.41-14.02	(44'-46')	0.52	intact core
14.02-14.63	(46'-48')	0.36	intact core
14.63-14.94	(48'-49')	0.29	rubble
14.94-16.00	(49'-52½)	0.53	intact core
16.00-16.15	(52½'-53')	0.07	rubble
16.15-16.46	(53'-54')	0.06	rubble
16.46-17.68	(54'-58')	0.60	rubble
17.68-18.14	(58'-59½')	0.22	rubble
18.14-18.59	(59½'-61')	0.23	rubble
18.59-18.90	(61'-62')	0.28	intact core
18.90-19.20	(62'-63')	0.28	rubble in upper third, good core below
		4.60	
Box 3 19.20-25.61 m			
19.20-19.26	(63'-63.2')	0.06	all rubble
19.26-19.81	(63.2'-65')	0.27	mostly rubble
19.81-20.12	(65'-66')	0.39	mostly rubble
20.12-20.42	(66'-67')	0.21	rubble in upper half, intact core below
20.42-20.73	(67'-68')	0.26	mostly intact core
20.73-21.34	(68'-70')	0.66	mostly intact core, rubble in lowest 12 cm
21.34-22.25	(70'-73')	0.59	intact core
22.25-23.16	(73'-76')	0.29	all rounded rubble
23.16-23.47	(76'-77')	0.29	all rubble
23.47-24.69	(77'-81')	0.49	rubble in top 13 cm, mostly intact core below
24.69-24.99	(81'-82')	0.20	angular rubble
24.99-25.45	(82'-83½')	0.42	angular rubble
25.45-26.52	(83'-87')	0.93	mostly intact core
		5.06	
Box 4 25.61-32.46 m			
26.52-26.82	(87'-88')	0.22	all rubble
26.82-27.74	(88'-91')	0.23	all rubble
27.74-28.35	(91'-93')	0.61	rubble in upper half; intact core below
28.35-28.96	(93'-95')	0.46	intact core in upper two-thirds, rubble below
28.96-29.72	(95'-97½')	0.35	half intact core, rest rubble
29.72-31.09	(97½'-102')	0.72	mostly intact core
31.09-31.39	(102'-103')	0.22	intact core in upper half, rubble below
31.39-31.55	(103'-103½')	0.08	one piece
31.55-32.00	(103½'-105')	0.55	intact core
32.00-32.16	(105'-105½')	0.16	all rubble
32.16-32.46	(105½'-106½')	0.12	all rubble
		3.72	

Run		Recovery (m)	Character
Box 5 32.46-39.01 m			
32.46-32.92 m	(106½'-108')	0.22	rubble
32.92-33.22	(108'-109')	0.20	angular rubble
33.22-33.99	(109'-111½')	0.35	all rubble
33.99-34.44	(111½'-113')	0.13	all rubble
34.44-34.75	(113'-114')	0.53	all rubble
34.75-35.05	(114'-115')	0.22	all rubble
35.05-35.36	(115'-116')	0.26	rubble in upper half; intact core below
35.36-35.97	(116'-118')	0.58	angular rubble in upper half; intact core below
35.97-36.27	(118'-119')	0.24	intact core
36.27-36.88	(119'-121')	0.29	intact core
36.88-37.49	(121'-123')	0.46	rubble in upper half; intact core below
37.49-38.40	(123'-126')	0.72	intact core
38.40-39.01	(126'-128')	0.68	intact core
		4.88	
Box 6 39.01-44.81 m			
39.01-39.17	(128'-128½')	0.09	all rubble
39.17-39.62	(128½'-130')	0.45	rubble in upper two-thirds,intact core below
39.62-40.39	(130'-132½')	0.63	mostly intact core
40.39-40.54	(132½'-133')	0.21	intact core
40.54-42.06	(133'-138')	2.74	mostly intact core, rubble in lowest 70 cm
42.06-43.28	(138'-142')		
43.28-43.59	(142'-143')	0.31	intact core
43.59-43.89	(143'-144')	0.30	mostly rubble
43.89-44.20	(144'-145')	0.25	all rubble
44.20-45.11	(145'-148')	0.42	mostly rubble
		5.40	
Box 7 44.81-53.01 m			
45.11-45.26 m	(148'-148½')	0.12	all rubble
45.26-45.42	(148½'-149')	0.32	all rubble
45.42-46.33	(149'-152')	0.71	mostly intact core
46.33-46.63	(152'-153')	0.27	rubble
46.63-46.94	(153'-154')	0.29	all rubble
46.94-47.55	(154'-156')	0.30	all rubble
47.55-48.16	(156'-158')	0.61	intact core
48.16-48.92	(158'-160½')	0.56	rubble in top 13 cm, intact core below
48.92-49.68	(160½'-163')	0.82	mostly intact core
49.68-51.21	(163'-168')	0.85	mostly rubble in upper two-thirds, intact core below
51.21-52.73	(168'-173')	0.81	mixture of intact core and rubble
52.73-53.04	(173'-174')	0.40	mostly intact core
		6.06	

Bur Property, Burwash and Tatamagouche Creeks, Yukon
Drillhole 81-5

Run		Recovery (m)	Character
Box 8 53.01-58.52 m			
53.04-53.95	(174'-177')	0.29	all rubble
53.95-54.25	(177'-178')	0.20	all rubble
54.25-54.86	(178'-180')	0.35	all rubble
54.86-55.17	(180'-181')	0.28	intact core
55.17-55.78	(181'-183')	0.68	all rubble
55.78-56.39	(183'-185')	0.67	intact core
56.39-57.30	(185'-188')	0.97	part intact core, part rubble
57.30-57.61	(188'-189')	0.40	intact core in upper half, rubble below
57.61-58.22	(189'-191')	0.25	rubble
58.22-58.52	(191'-192')	0.22	all rubble
		4.31	
Box 9 58.52-64.22 m			
58.52-58.83 m	(192'-193')	0.50	all rubble
58.83-60.35	(193'-198')	0.30	all rubble
60.35-60.66	(198'-199')	0.28	rubble in upper half, intact core below
60.66-61.87	(199'-203')	1.23	about two-thirds intact core, rest rubble
61.87-63.40	(203'-208')	1.39	mostly intact core
63.40-64.92	(208'-213')	1.52	intact core
		5.22	
Box 10 64.22-69.49 m			
64.92-66.45 m	(213'-218')	1.41	about half intact core, rest rubble
66.45-67.97	(218'-223')	1.52	mostly rubble, but pieces to 13 cm
67.97-69.49	(223'-228')	1.40	mostly rubble
		4.33	
67.66	(222')	49.805	

$$\text{Recovery} = \frac{49.805}{67.66} \times 100 = 73.61\%$$

APPENDIX 2: CERTIFICATES OF ANALYSIS FOR SAMPLES FROM DRILLHOLES

BONDAR-CLEGG & COMPANY LTD.

136B INDUSTRIAL RD, WHITEHORSE, YUKON Y1A 4X1

PHONE: (403) 667-6523
TELEX: 036-8-460

Certificate of Analysis

TO Halferdahl & Associates Ltd.
18 - 10509 81 Ave.
Edmonton, Alta. T6X 1X7

REPORT NO. A41-249

DATE October 30, 1981

I hereby certify that the following are the results of analyses made by us upon the herein described ... rock ..... samples

MARKED	oz/ton Au	oz/ton Ag
4045	L0.002	L0.05
4046	0.002	L0.05
4426	0.002	L0.05
4451	0.002	L0.05
4452	0.002	L0.05
4453	0.002	L0.05
4454	0.002	L0.05
4455	0.002	L0.05
4456	0.002	L0.05
4457	0.002	L0.05
4458	0.002	L0.05
4459	0.002	L0.05
4460	0.002	L0.05
4461	0.002	L0.05
4462	0.002	L0.05

L - denotes less than

BONDAR-CLEGG & COMPANY LTD.

Steven Sempson

NOTE:
Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

A87

To: HALFERDAHL & ASSOCIATES LTD.,
18, 10509 - 81st Avenue,
Edmonton, Alberta T6E 1X7

ATTN: C. Gibson

File No. 22569
Date October 21, 1981
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD
"Core Samples"	
4427	Trace
4428	Trace
4429	Trace
4430	Trace
4431	2.416
4432	Trace
4433	Trace
4434	Trace
4435	.604
4436	.052
4437	.018
4438	.042
4439	.032
4440	Trace
4441	Trace
4442	Trace
4443	.032
4444	Trace
4445	Trace
4446	Trace

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

A89

To: HALFERDAHL & ASSOCIATES LTD.,
18, 10509 - 81st Avenue,
Edmonton, Alberta T6E 1X7

ATTN: C. Gibson

File No. 22569-1
Date November 6, 1981
Samples Rock

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON SILVER
"Rock Samples"	
4431	.07
4435	.70
4436	.10
4437	.09
4438	.06
4439	.01
4443	.02

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

A90

To: HALFERDAHL & ASSOCIATES LTD.,
18, 10509 - 81st Avenue,
Edmonton, Alberta T6E 1X7

ATTN: C. Gibson

File No. 22569-1
Date November 6, 1981
Samples Rock

Certificate of ASSAY

LORING LABORATORIES LTD.

Page # 2

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag	PPM As
"Rock Samples"					
4427	270	101	73	2.0	9.4
4428	144	82	96	1.5	6.9
4429	91	62	51	2.0	8.6
4430	110	84	35	1.4	9.4
4432	143	48	35	2.0	9.8
4433	98	28	46	1.5	5.4
4434	118	44	50	1.6	5.2
4440	142	68	64	1.7	12.1
4441	115	62	37	2.0	23.5
4442	115	80	29	2.1	9.5
4444	21	51	29	1.6	10.1
4445	90	62	60	2.4	9.7
4446	77	43	46	2.3	18.7

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

A91

To: HALFERDAHL & ASSOCIATES LTD.,
18, 10509 - 81st Avenue,
Edmonton, Alberta T6E 1X7

ATTN: C. Gibson

File No. 22569-2
Date November 13, 1981
Samples Rock

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM As
"Rock Samples"				
4431	84	66	129	9.7
4435	106	55	63	11.2
4436	66	57	44	10.6
4437	65	48	62	7.4
4438	77	55	85	17.0
4439	119	65	198	21.6
4443	86	77	37	7.8

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

D. Enders

Assayer

A92

To: HALFERDAHL & ASSOCIATES LTD.,
18, 10509 - 81st Avenue,
Edmonton, Alberta T6E 1X7

ATTN: C. Gibson

File No. 22805
Date December 22, 1981
Samples Rock

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER
"Rock Samples"		
4447	Trace	.30
4448	Trace	.04
4449	Trace	.06
4450	Trace	.06
4476	Trace	.36
4477	Trace	.04
4478	Trace	.02
4479	Trace	.04
4480	Trace	.02
4481	Trace	.06
4482	Trace	Trace
4483	Trace	.14
4484	Trace	.02
4485	Trace	.06
4486	Trace	.52
4487	Trace	Trace
4488	Trace	.02
4489	Trace	.24
4490	Trace	Trace
4491	Trace	.02

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

D. Enders

Assayer

A93

To: HALFERDAHL & ASSOCIATES LTD.,
18, 10509 - 81st Avenue,
Edmonton, Alberta T6E 1X7

ATTN: L.B. Halferdahl

File No. 22903
Date December 28, 1981
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER
"Core Sample"		
4492	Trace	.06

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: Halferdahl & Associates Ltd.

PAGE No. 1

REPORT NO. A21 - 2012

DATE: January 8, 1982

BONDAR-CLEGG & COMPANY LTD.

18 - 10509 - 81 Avenue
EDMONTON, ALBERTA T6E 1X7

CERTIFICATE OF ASSAY

Samples submitted: December 18, 1981
Results completed: January 18, 1982

PROJECT: NONE GIVEN

I hereby certify that the following are the results of assays made by us upon the herein described pulps samples.

MARKED	GOLD		SILVER									
	Ounces per Ton	Grams per Metric Ton	Ounces per Ton	Grams per Metric Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
4431	0.004		0.18									
4432	<0.002		0.02									
4435	0.62		0.10									
4437	0.041		0.05									
4493	<0.002		0.02									

NOTE:
Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

Registered Assayer, Province of British Columbia

A94

BONDAR-CLEGG & COMPANY LTD.

130 PEMBERTON AVE., NORTH VANCOUVER, B.C. V7P 2R5 PHONE: 985-0681 TELEX: 04-352667

CERTIFICATE OF ASSAY

TO Halferdahl & Associates Ltd.

18 - 10509 - 81 Avenue

EDMONTON, ALBERTA T6E 1X7

422 - 0111

January 20, 1982

PROJECT: NONE GIVEN

I hereby certify that the following are the results of assays made by us upon the herein described pulp samples.

MARKED	~~Percent~~ Au oz/ton	MARKED	Percent	MARKED	Percent	
4431	0.002					

NOTE:
Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

A95

Registered Assayer, Province of British Columbia

To: Halferdahl & Associates Ltd.

PAGE No. 1

REPORT NO. A21 - 2012

DATE: January 8, 1982

BONDAR-CLEGG & COMPANY LTD.

18 - 10509 - 81 Avenue
EDMONTON, ALBERTA T6E 1X7

CERTIFICATE OF ASSAY

Samples submitted: December 18, 1981
Results completed: January 18, 1982

PROJECT: NONE GIVEN

I hereby certify that the following are the results of assays made by us upon the herein described pulps samples.

MARKED	GOLD		SILVER									
	Ounces per Ton	Grams per Metric Ton	Ounces per Ton	Grams per Metric Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
4431	0.004		0.18									
4432	<0.002		0.02									
4435	0.62		0.10									
4437	0.041		0.05									
4493	<0.002		0.02									

NOTE:
Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

Registered Assayer, Province of British Columbia

A94

BONDAR-CLEGG & COMPANY LTD.

130 PEMBERTON AVE., NORTH VANCOUVER, B.C. V7P 2R5 PHONE: 985-0681 TELEX: 04-352667

CERTIFICATE OF ASSAY

TO Halferdahl & Associates Ltd.

18 - 10509 - 81 Avenue

EDMONTON, ALBERTA T6E 1X7

422 - 0111

January 20, 1982

PROJECT: NONE GIVEN

I hereby certify that the following are the results of assays made by us upon the herein described pulp samples.

MARKED	~~Percent~~ Au oz/ton	MARKED	Percent	MARKED	Percent	
4431	0.002					

NOTE:
Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

A95

Registered Assayer, Province of British Columbia

To: HALFERDAHL & ASSOCIATES LTD.,
18, 10509 - 81st Avenue,
Edmonton, Alberta T6E 1X7

ATTN: C. Gibson

File No. 23051
Date January 27, 1982
Samples Reject

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER
"Reject Samples"		
4495	Trace	.16
4496	Trace	.12

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

BONDAR-CLEGG & COMPANY LTD.

130 PEMBERTON AVE., NORTH VANCOUVER B.C. V7P 2R5 PHONE: (604) 985-0681 TELEX: 04-352667

A97

REPORT: 422-0155

CERTIFICATE OF ANALYSIS

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	NOTES
P 4427		ND	
P 4430		ND	
P 4433		ND	
P 4434		ND	
P 4436		0.055	
P 4438		0.011	
P 4439		0.011	
P 4443		0.004	
P 4446		0.002	

To: HALFERDAHL & ASSOCIATES LTD.,
18, 10509 - 81st Avenue,
Edmonton, Alberta T6E 1X7

ATTN: L.B. Halferdahl

File No. 23136
Date February 22, 1982
Samples Pulp

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER
"Pulp Samples"		
4428	Trace	.06
4429	Trace	.10
4440	.002	.05
4441	Trace	.04
4442	Trace	.06
4444	.002	.06
4445	Trace	.10

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

D. Sellers

Assayer

A99

To: HALFERDAHL & ASSOCIATES LTD.,
18, 10509 - 81st Avenue,
Edmonton, Alberta T6E 1X7

ATTN: C. Gibson

File No. 22569-3
Date March 18, 1982
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Te
"Core Samples"	
4495	-.2
4434	-.2
4435	-.2

(-) = Less Than

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
Canada V7P 2R5
Phone: (604) 985-0681
Telex: 04-352667

BONDAR-CLEGG

A100
Certificate of Analysis

REPORT: 422-4230 PROJECT: NONE GIVEN

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	NOTES
R 4226		0.003	0.02	
R 4227		0.002	0.02	
R 4228		<0.002	0.02	
R 4229		<0.002	0.03	
R 4230		<0.002	0.02	
R 4231		<0.002	0.02	
R 4232		<0.002	<0.02	
R 4233		<0.002	<0.02	
R 4234		<0.002	0.03	
R 4235		<0.002	<0.02	
R 4236		<0.002	0.03	
R 4237		<0.002	0.02	
R 4238		<0.002	0.02	
R 4239		<0.002	0.02	
R 4240		<0.002	0.02	
R 4241		<0.002	<0.02	
R 4242		<0.002	<0.02	
R 4243		<0.002	<0.02	
R 4244		<0.002	0.03	
R 4245		<0.002	<0.02	
R 4246		0.002	0.02	
R 4247		0.003	0.02	
R 4248		0.002	0.02	

Registered Assayer, Province of British Columbia

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
Canada V7P 2R5
Phone: (604) 985-0681
Telex: 04-352667

BONDAR-CLEGG

A101

Geochemical Lab Report

REPORT: 122-4230 PROJECT: NONE GIVEN

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Ni PPM	Co PPM	Pt PPB	Pd	NOTES
P 4226		150	1140	86	<50	25	
P 4227		244	1020	92	55	20	
P 4229		196	169	32	<50	<5	
P 4234		347	240	51	<50	<5	
P 4235		135	70	27	<50	<5	
P 4236		26	92	32	<50	<5	
P 4237		15	26	13	<50	<5	
P 4238		38	72	30	<50	<5	
P 4239		24	34	12	<50	<5	
P 4240		84	55	28	<50	<5	
P 4241		70	78	25	<50	<5	
P 4242		22	44	14	<50	<5	
P 4243		67	54	26	<50	<5	
P 4246		128	53	24	<50	15	
P 4247		114	52	23	<50	15	
P 4248		108	52	23	<50	10	

CHEMEX LABS LTD.

A102
212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : HALFERDAHL & ASSOC. LTD.,
DEPT. 18,
10509 - 81ST AVE.,
EDMONTON, ALTA.
T6E 1X7

CERT. # : A8310253-001-A
INVOICE # : I8310253
DATE : 10-FEB-83
P.O. # : NONE

Sample description	Prep code	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm
R 4239	214	30	1	2	56	0.1	28
R 4241	214	73	1	5	52	0.1	67
R 4242	214	29	4	4	34	0.1	35
R 4243	214	69	1	10	195	0.2	42
R 4244	214	3	2	1	98	0.1	1
R 4245	214	16	1	1	88	0.1	8
R 4246	214	131	1	1	49	0.1	44
R 4247	214	133	1	1	55	0.2	45
R 4248	214	108	2	1	40	0.1	65
4084	205	17	1	5	23	0.2	25
4100	205	39	1	1	88	0.1	83
4151	205	70	1	1	56	0.1	122
4152	205	78	2	1	50	0.1	230
4249	205	24	1	6	73	0.1	6
4250	205	60	1	1	20	0.1	22

Certified by Hart Bichler

CTA MEMBER CANADIAN TESTING ASSOCIATION

A103

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : HALFERDAHL & ASSOC. LTD.,
DEPT. 18,
10509 - 81ST AVE.,
EDMONTON, ALTA.
T6E 1X7

CERT. # : A8310253-001-8
INVOICE # : I8310253
DATE : 10-FEB-83
P.O. # : NONE

Sample description	Prep code	Co ppm	Mn ppm	Cr ppm	As ppm	Hg ppb	Sb ppm
R 4239	214	13	845	88	3.0	100	0.6
R 4241	214	27	860	146	3.0	60	0.6
R 4242	214	15	620	26	2.0	50	0.2
R 4243	214	27	1100	260	3.0	70	0.8
R 4244	214	3	1480	26	2.0	40	0.4
R 4245	214	6	1400	34	2.0	50	0.8
R 4246	214	24	645	92	3.0	60	0.8
R 4247	214	25	720	94	2.0	50	0.2
R 4248	214	23	605	88	2.0	20	1.8
4084	205	5	630	74	3.0	10	1.8
4100	205	20	1160	184	6.0	50	0.6
4151	205	31	1250	300	15.0	20	0.1
4152	205	39	1150	530	24.0	10	0.1
4249	205	4	855	38	4.0	20	0.6
4250	205	9	860	52	2.0	10	0.2

Certified by Hart Richler

CTA MEMBER CANADIAN TESTING ASSOCIATION

A104
212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: (604) 984-0221
TELEX: 043-52597

CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : HALFERDAHL & ASSOC. LTD.,
DEPT. 18,
10509 - 81ST AVE.,
EDMONTON, ALTA.
T6E 1X7

CERT. # : A8310253-001-C
INVOICE # : I8310253
DATE : 10-FEB-83
P.O. # : NONE

Sample description	Prep code	Ba ppm	Au NAA ppb				
R 4239	214	360	1	--	--	--	--
R 4241	214	500	4	--	--	--	--
R 4242	214	320	3	--	--	--	--
R 4243	214	130	4	--	--	--	--
R 4244	214	500	3	--	--	--	--
R 4245	214	300	1	--	--	--	--
R 4246	214	820	3	--	--	--	--
R 4247	214	320	2	--	--	--	--
R 4248	214	300	1	--	--	--	--
4084	205	140	79	--	--	--	--
4100	205	440	7	--	--	--	--
4151	205	240	3	--	--	--	--
4152	205	440	<1	--	--	--	--
4249	205	320	2	--	--	--	--
4250	205	620	<1	--	--	--	--

Certified by Hart Bichler

CTA MEMBER CANADIAN TESTING ASSOCIATION

A105

To: HALFERDAHL & ASSOCIATES LTD.,
18, 10509 - 81st Avenue,
Edmonton, Alta. T6E 1X7

ATTN: L.B. Halferdahl

File No. 24362
Date February 11, 1983
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

Page # 1

SAMPLE No.	OZ/TON Gold	OZ/TON Silver
"Core Samples"		
4080	Trace	.16
4081	Trace	.12
4082	Trace	.16
4083	Trace	.10
4085	Trace	.06
4086	Trace	.08
4087	Trace	.06
4088	Trace	.02
4089	Trace	Trace
4090	Trace	Trace
4091	Trace	Trace
4092	Trace	Trace
4093	Trace	.06
4094	Trace	Trace
4095	Trace	.16
4096	Trace	.14
4097	Trace	.22
4098	Trace	.28
4099	Trace	.12
4153	Trace	.20

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

A106

To: HALFERDAHL & ASSOCIATES LTD.,
18, 10509 - 81st Avenue,
Edmonton, Alta. T6E 1X7

ATTN: L.B. Halferdahl

File No. 24362
Date February 11, 1983
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

Page # 2

SAMPLE No.	OZ/TON Gold	OZ/TON Silver
4154	Trace	.08
4155	Trace	.14
4156	Trace	.04
4157	Trace	.12
4158	Trace	.04
4159	Trace	.14
4160	Trace	.08
4161	Trace	.20
4162	Trace	.16

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

A107

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : HALFERDAHL & ASSOC. LTD.,
DEPT. 18,
10509 - 81ST AVE.,
EDMONTON, ALTA.
T6E 1X7

CERT. # : A8310333-001-A
INVOICE # : I8310333
DATE : 22-FEB-83
P.O. # : NONE

Sample description	Prep code	Ag ppm	Hg ppb	Au NAA ppb			
4163	205	0.1	--	<1	--	--	--
4164	205	0.1	--	<1	--	--	--
4165	205	0.1	--	2	--	--	--
4166	205	0.1	20	1	--	--	--
4167	205	0.1	--	1	--	--	--
4168	205	0.1	--	1	--	--	--
4169	205	0.1	--	1	--	--	--
4170	205	0.1	--	1	--	--	--
4171	205	0.1	--	<1	--	--	--
4172	205	0.1	--	<1	--	--	--
4173	205	0.1	--	1	--	--	--
4174	205	0.1	--	5	--	--	--
4175	205	0.1	--	3	--	--	--
4501	205	0.1	--	<1	--	--	--
4502	205	0.1	--	<1	--	--	--
4503	205	0.1	--	<1	--	--	--
4504	205	0.1	--	<1	--	--	--
4505	205	0.1	20	1	--	--	--
4506	205	0.1	20	25	--	--	--
4507	205	0.1	50	1	--	--	--
4508	205	0.1	--	1	--	--	--
4509	205	0.1	--	1	--	--	--
4510	205	0.1	--	<1	--	--	--
4511	205	0.1	--	1	--	--	--
4512	205	0.1	--	<1	--	--	--

Certified by Hart Bichler

CTA MEMBER CANADIAN TESTING ASSOCIATION

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : Halferdahl & Assoc. Ltd.,
Dept. 16,
10509 - 81st Ave.,
Edmonton, Alta.
T6E 1X7

CERT. # : A8313599-001-A
INVOICE # : I8313599
DATE : 26-AUG-83
P.O. # : NONE

ATTN: C. GIBSON

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Au NAA ppb	
I 100	213	65	10	58	157	<2	--
I 300	213	69	7	56	94	4	--
I 500	213	56	3	44	83	6	--
I 700	213	70	5	56	80	358	--
I 900	213	184	15	56	88	4	--
II 100	213	50	3	46	73	6	--
II 495	213	60	3	50	82	4	--
II 905	213	60	9	48	64	4	--
II 1300	213	138	6	54	128	<2	--
III 92	213	36	3	48	202	4	--
III 500	213	51	1	48	345	12	--
III 900	213	46	2	58	485	2	--
III 1300	213	30	1	54	250	4	--
III 1700	213	54	4	50	212	6	--
III 2100	213	13	3	38	25	6	--
KK1W 555	213	65	5	50	93	8	--
PI 100	213	19	4	44	52	196	--
KK2W LEFT FORK	213	188	33	205	64	10	--
WEST FORK I 100	213	140	24	400	180	10	--
WEST FORK II	213	105	24	250	110	2	--
WEST FORKII 1585	213	98	22	230	104	8	--
RIGHT FOR 1700	213	160	37	260	93	4	--
KK2W100	213	70	11	109	90	2	--
KK2W500	213	76	10	110	73	6	--
KK2W900	213	66	11	98	90	4	--
KK2W1300	213	78	14	110	76	6	--
KK3W100	213	83	12	144	85	14	--
KK3W500	213	74	10	116	86	96	--
KK3W900	213	144	10	315	142	10	--
KK3W1300	213	165	7	450	193	8	--
KAT	213	56	9	72	108	4	--
EAST FORK 1300	213	590	870	230	51	24	--
D.P. 100	213	43	5	52	61	4	--
D.P. 300	213	48	14	52	70	<2	--
D.P. 500	213	27	5	48	54	6	--
D.P. 700	213	27	5	50	50	4	--
D.P. 900	213	23	3	46	43	4	--
D.P. 1300	213	21	5	46	31	334	--
D.P. 1700	213	19	6	50	32	4	--
D.P. 2100	213	24	3	46	33	2	--

Certified by .....

CTA MEMBER CANADIAN TESTING ASSOCIATION

APPENDIX 4: FIELD AND OFFICE PERSONNEL

Field

M. Alexander, Geologist 83 Frontenac Crescent Deep River, Ontario K0J 1P0	11 days between June 28 and July 25, 1983
L.B. Halferdahl, Engineer 11539 - 73 Avenue Edmonton, Alberta T6G 0E2	18 days between September 7 and 28, 1982 and 1 day on June 28, 1983
J. Murasko, Assistant 11110 University Avenue Edmonton, Alberta T6G 1Y6	11 days between June 28 and July 25, 1983

Office

L.B. Halferdahl, Engineer address above.	2½ days in August and September, 1983
W. McGuire, Draftsman 5307 - 145 Avenue Edmonton, Alberta T5A 4E9	51 hours in August and September, 1983

APPENDIX 5: QUALIFICATIONS

L.B. Halferdahl obtained degrees in geological engineering and geology from Queen's University and The John Hopkins University. He has had more than 25 years experience as a practising engineer and geologist in research and mining exploration, including consulting since 1969. He is a member of the Canadian Institute of Mining and Metallurgy, and is registered as P. Eng. and P. Geol. in the Association of Professional Engineers, Geologists, and Geophysicists of Alberta, and licensed as P.Eng. in the Association of Professional Engineers of British Columbia.

1983 ROAD MAINTENANCE PROGRAM
TATAMAGOUCHE

Joe Creek

JO 7 JO 8

JO 5 JO 6

JO 3 JO 4

JO 1 JO 2

AND 7 AND 8

BASELINE

UPPER SUMP

LOWER SUMP

TRENCH 2

TRENCH 1

81-1
81-2

82-1
82-2
82-3
81-5

ALICE LAKE DRILLHOLE #2

ALICE LAKE DRILLHOLE #1

WEN 7 WEN 8

WEN 5 WEN 6

WEN 3 WEN 4

Wen Creek

45 RUP

CREEK

BURWASH

Joyce Creek

Trailer

Camp

1245 △

1400
1350
1300
1250
1200
1150
1100
1000

SYMBOLS

- Fault, defined
- interpreted
- Trench, excavation
- Drillhole with number and projection
- Claim post
- Claim line, location line
- other
- Claim name — WEN 5
- Contour (interval 10m) — 1250
- Road, unimproved

NOTES

Locations of claim posts, claim lines, trenches, and drillholes were located approximately with compass and topofil chain.

Diamond drillholes:

No.	Depth(m)	From No.1 Post Jo 6 Distance(m)	Azimuth	Bearing	Dip
81-1	14.0	317	129°	—	Vert.
81-2	23.2	314	128.5°	320°	60°
81-3	96.6	275	138.5°	—	Vert.
81-4	73.7	311	94°	—	Vert.
81-5	69.5	679	119°	102°	60°
82-1	47.8	676	116.5°	102°	60°
82-2	139.6	468	30.2°	102°	70°
82-3	85.3	566	41.2°	102°	60°

Contours are based on aerial photographs without survey control. Lines surveyed subsequently show some discrepancies with contours.

REVISIONS

BY	DATE	BY	DATE
L B H	1983-09		

BUR PROPERTY

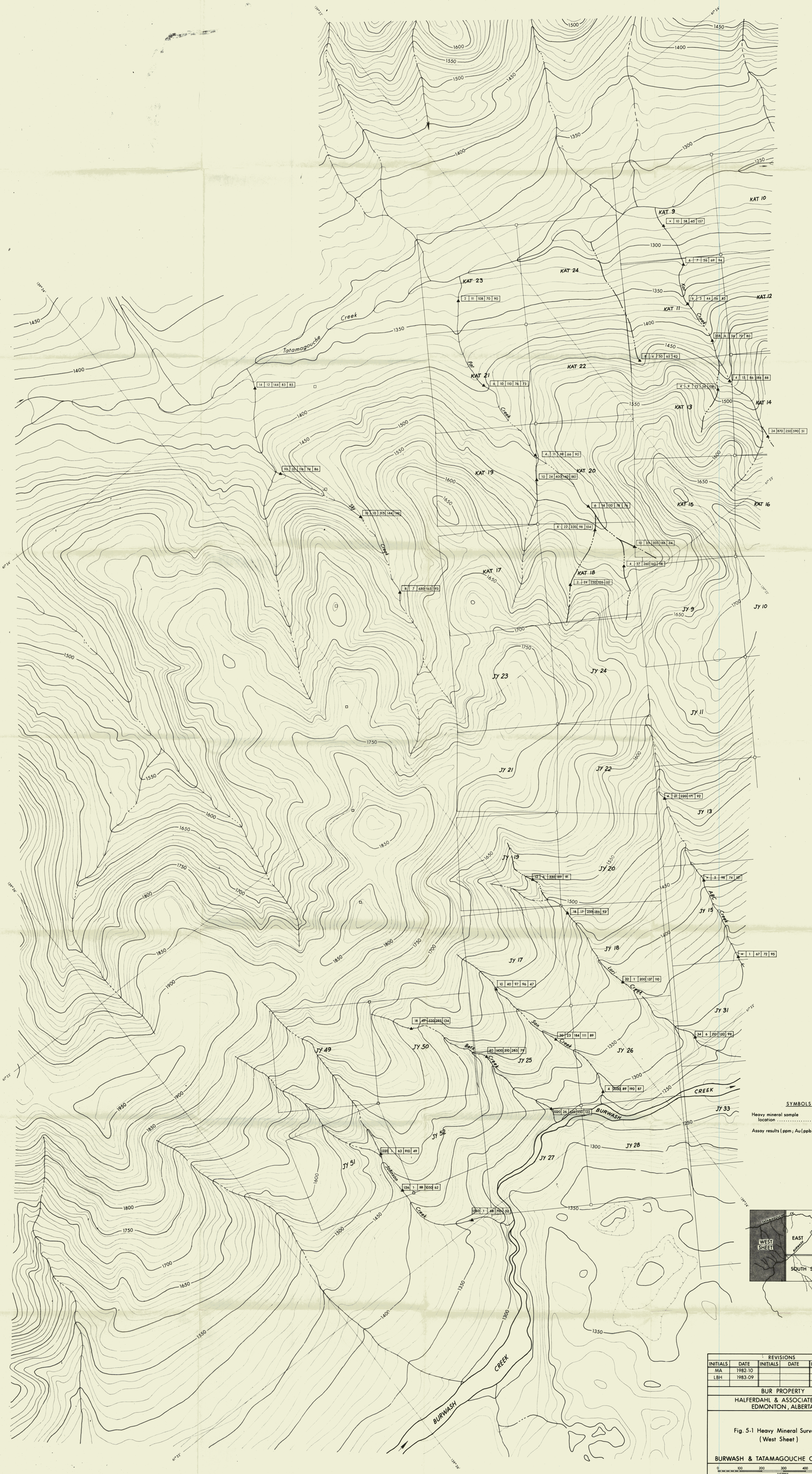
HALFERDAHL & ASSOCIATES LTC.
EDMONTON, ALBERTA 081175

Fig. 4-1 Locations of Trenches, Sumps, and Drillholes.

BURWASH & TATAMAGOUCHE CREEKS, Y. T.

0 50 100 150 200
METRES

DBN SCALE: 1:2000 1981-10


139°22'
61°24'
1500
1600
1550
1450
1400
1350
1300
1250
KAT 10
KAT 9
× 10 58 65 157
4 7 56 69 94
KAT 24
KAT 23
2 11 108 70 90
KAT 12
KAT 11
6 3 44 56 83
Rat Creek
358 6 56 70 80
8 6 50 65 93
KAT 22
KAT 21
6 10 110 76 73
4 9 72 56 108
KAT 13
KAT 14
24 870 250 590 51
14 12 144 83 85
Tatamagouche Creek
4 11 98 66 90
KAT 20
KAT 19
10 24 400 140 180
96 10 116 74 86
6 14 110 78 76
KAT 15
KAT 16
8 22 230 98 104
10 10 315 144 192
Sky Creek
10 35 205 188 64
4 37 260 160 98
KAT 18
KAT 17
2 24 250 105 110
8 7 450 165 93
139°22'
JY 9
JY 10
1700
1750
JY 23
JY 24
JY 11
JY 21
JY 22
1600
4 21 220 171 92
JY 13
1650
1850
JY 19
JY 20
12 6 330 189 91
18 17 250 186 93
JY 15
ABC Creek
JY 18
JY 17
1900
1950
10 40 97 96 47
Lori Creek
32 1 200 137 110
JY 31
61°22'
18 49 520 295 134
JY 49
JY 50
San Creek
30 23 184 111 89
Bert Creek
40 1400 510 285 79
JY 25
JY 26
4 2050 89 190 87
CREEK
1020 26 425 350 122
BURWASH
JY 33
JY 52
JY 28
JY 27
JY 51
1220 1 63 910 49
Johnson Creek
156 1 88 1050 62
1280 1 68 710 52
139°26'
61°23'
BURWASH CREEK
SYMBOLS
Heavy mineral sample location ▲
Assay results (ppm; Au (ppb)) Au Pb Zn Cu Ni 34 6 210 152 99
× denotes Au < 2 ppb
TATAMAGOUCHE CK.
BURWASH CK.
WEST SHEET
EAST SHEET
SOUTH SHEET
REVISIONS
INITIALS DATE INITIALS DATE INITIALS DATE
MA 1982-10
LBH 1983-09
BUR PROPERTY
HALFERDAHL & ASSOCIATES LTD.
EDMONTON, ALBERTA 091175
Fig. 5-1 Heavy Mineral Survey
(West Sheet)
BURWASH & TATAMAGOUCHE CREEKS, Y. T.
0 100 200 300 400 500 600
METRES
DBN
SCALE: 1:5000
1981-10