Bur Property, Burwash Creek, Yukon
(formerly Cork Property of
Imperial Oil Enterprises Ltd.)
Present Claim: JY 58
Drillhole: IOE Ltd. 70-2
Inclination: -90°
Core Size: BQ
Depth: 103.94 m
Core recovered: 68.35 m, 71.6%

Location: 1200' S, 2450' W on IOE grid

Elevation: 1689 m ±5 (from 1:5000 topo map)
Drilled: 1970 06 21 to 28
Drilled by Arctic Drilling Ltd.
Relogged by L.B. Halferdahl 1983 11

Purpose: IOE Ltd. checked for copper and molybdenum in latite porphyry. The core was relogged and resampled to check for gold and other metals in the intruded flows and tuffs as well as in the latite porphyry.

Metrage	Interval	Description
0.00-8.53	8.53	Overburden
8.53-10.20	1.67	Intermediate tuff, medium-dark-grey, very fine grained, angular light-grey grains to ½ mm in size in darker matrix, 3-5% disseminated pyrite in grains to ¼ mm, pyrite clots on fracture surfaces, few elongated whitish clots to 3-5 mm, odd fragment of light-brown color to 5 mm SAMPLE 3947 8.53-9.03 m 0.50 m (representative chips) Au 115 ppb, Cu 245 ppm, Mo 18 ppm, Pb 16 ppm, Zn 38 ppm 9.03-10.20 m 1.17 m lost core
10.20-10.59	0.39	Rhyolite, buffish-white, 10-20% greyish glassy fragments to 2-3 mm in size and 10% milky white fragments or grains to 5 mm in whitish fine-grained matrix, few dark spots to 2 mm, slight rust on fracture surfaces, partly altered downhole with fine pyrite along one oxidized fracture 2-3 mm wide (lower contact and thickness uncertain because of lost core; thickness given is a minimum) SAMPLE 4138 10.20-10.59 m 0.39 m (representative chips) Au 48 ppb, Cu 275 ppm, Mo 59 ppm, Pb 1 ppm, Zn 29 ppm
10.59-17.00	6.41	Intermediate tuff, medium-dark-grey, 20-30% whitish fragments to 2-3 mm in very fine grained darker matrix, 3-5% disseminated pyrite and pyrite along fractures 10.57-11.04 m white veinlets to 3-4 mm wide with irregular veinlets SAMPLE 3948 10.59-11.06 m 0.47 m (representative chips) Au 60 ppb, Cu 230 ppm, Mo 28 ppm, Pb 10 ppm, Zn 49 ppm

Metrage	Interval	Description
		11.06-12.80 m 1.74 m lost core
		12.80-13.25 m whitish fragments mostly less than 1 mm in size, moderate number of whitish veinlets and few irregular whitish clots to 2-3 mm in size
		SAMPLE 3949 12.80-13.25 m 0.45 m (representative chips) Au 55 ppb, Cu 295 ppm, Mo 30 ppm, Pb 5 ppm, Zn 53 ppm
		13.25-15.54 m 2.29 m lost core
		15.54-15.95 m local light- and dark-grey laminae with disseminated pyrite more concentrated along dark laminae, greenish-grey downhole possibly from alteration along fracture
		15.95-16.31 m 0.36 m lost core
		16.31-16.67 m only 1-3% pyrite: some disseminated cubes to 1 mm in size
		SAMPLE 3950 15.54-16.67 m 0.77 m (representative chips) Au 45 ppb, Cu 208 ppm, Mo 25 ppm, Pb 1 ppm, Zn 41 ppm
		16.67-16.92 m 0.25 m lost core
17.00-18.30	1.30	Vitrophyric tuff, light-grey, 10-30% tiny white crystallites in light-grey glassy matrix, 1-2% disseminated pyrite
		17.07-18.16 m 1.09 m lost core
18.30-20.65	2.35	Intermediate tuff, medium-dark-grey, similar to intermediate tuff uphole, 1-2% disseminated pyrite with 20% pyrite on some fracture surfaces
		SAMPLE 4126 16.92-18.44 m 0.42 m (representative chips) Au 66 ppb, Cu 210 ppm, Mo 10 ppm, Pb 1 ppm, Zn 49 ppm
		18.44-19.02 m includes layer of whitish-buff-grey 4-5 mm thick with larger aggregates of pyrite at 10° CA, numerous whitish veins to 2 mm thick
		19.02-19.11 m lighter-grey and less pyrite than uphole
		SAMPLE 4127 18.44-19.11 m 0.67 m (representative chips) Au 59 ppb, Cu 175 ppm, Mo 21 ppm, Pb 1 ppm, Zn 45 ppm

Metrage	Interval	Description
		19.11-19.27 m with very finely disseminated pyrite and coarser aggregates on fracture surfaces
		19.27-19.51 m 0.24 m lost core
		19.51-19.73 m 1-3% finely disseminated pyrite becoming more abundant from 19.69-19.73 m
		19.73-19.89 m 0.16 m lost core
		19.89-20.12 m 2-4% finely disseminated pyrite, few white veinlets 2-3 mm thick
		SAMPLE 4128 19.11-20.12 m 0.61 m (representative chips) Au 13 ppb, Cu 153 ppm, Mo 61 ppm, Pb 1 ppm, Zn 42 ppm
		20.12-20.19 m 0.07 m lost core
		20.19-20.61 m slightly lighter-grey, 1-2% disseminated pyrite with up to 10% on some fracture surfaces, few white veinlets some with more abundant pyrite than adjacent rock
		20.61-20.65 m 0.04 m lost core
20.65-21.16	0.51	Vitrophyric tuff, light-grey, 50-60% white crystallites to ½ mm in darker matrix
		20.75-21.16 m 0.41 m lost core
21.16-22.85	1.69	Intermediate tuff, medium-dark-grey, similar to intermediate tuff uphole, mostly sparse pyrite but one fragment of rhyolite tuff with 2-3% disseminated pyrite
		21.26-21.52 m sparse pyrite
		SAMPLE 4129 20.19-21.52 m 0.87 m (representative chips) Au 14 ppb, Cu 95 ppm, Mo 21 ppm, Pb 1 ppm, Zn 36 ppm
		21.52-21.56 m 0.04 m lost core
		21.56-21.70 m medium-dark-grey, sparse pyrite
		21.70-22.10 m 0.40 m lost core
		22.10-22.40 m 1-3% disseminated pyrite, some along fractures
		SAMPLE 4130 21.56-22.40 m 0.46 m (representative chips) Au 18 ppb, Cu 163 ppm, Mo 24 ppm, Pb 1 ppm, Zn 33 ppm

Metrage	Interval	Description
		22.40-22.85 m 0.45 m lost core
22.85-31.44	8.59	Rhyolite tuff, whitish-buff to medium-grey, aphanitic to very fine grained, locally compact and sucrosic
		22.85-23.35 m whitish-buff, 3-5% pyrite disseminated and along fractures
		23.35-23.62 m 0.27 m lost core
		23.62-23.89 m medium-grey, 1-2% pyrite disseminated and along fractures
		SAMPLE 4131 22.85-23.89 m 0.67 m (representative chips) Au 20 ppb, Cu 153 ppm, Mo 12 ppm, Pb 1 ppm Zn 40 ppm
		23.89-24.54 m 0.65 m lost core
		24.54-24.62 m medium-grey, 2-4% pyrite disseminated and along fractures
		24.62-24.93 m whitish-buff, where coarse enough whitish grains are visible in slightly darker matrix; sucrosic, 20% or more rust spots on fracture surfaces, some pyrite visible, pyrite? smears on diamond cut surface, minor disseminated pyrite, some fragments cleaved parallel to CA, few calcite filled fractures
		24.93-25.30 m 0.37 m lost core
		25.30-25.42 m one fragment of medium-dark-grey with abundant pyrite on fracture surfaces, another light-grey, glassy and banded
		SAMPLE 4132 24.54-25.42 m 0.51 m (representative chips) Au 14 ppb, Cu 148 ppm, Mo 19 ppm, Pb 1 ppm, Zn 31 ppm
		25.42-26.06 m 0.64 m lost core
		26.06-26.38 m whitish-buff, very fine grained, sucrosic, 25-30% disseminated rust spots to 1-2 mm throughout, odd bit of pyrite
		SAMPLE 4133 26.06-26.38 m 0.32 m (representative chips) Au 25 ppm, Cu 120 ppm, Mo 13 ppm, Pb 2 ppm, Zn 27 ppm
		26.38-26.97 m 0.59 m lost core

Metrage	Interval	Description
		26.97-28.19 m 1.22 m lost core (sand according to driller's block)
		28.19-28.32 m whitish-buff, sucrosic, similar to 26.06-26.38 m, 25% rust spots, odd glint of very finely disseminated pyrite?
		28.32-28.50 m 0.18 m lost core
		28.50-28.78 m whitish-buff, sucrosic as above, 20% rust spots, some fracture surfaces coated with rust
		28.78-29.11 m 0.33 m lost core
		29.11-29.59 m whitish-buff, sucrosic as above, 10% rust spots to 1 mm, very thin fractures with scaly rust
		SAMPLE 4134 28.19-29.59 m 0.89 m (split core) Au 40 ppb, Cu 126 ppm, Mo 23 ppm, Pb 1 ppm, Zn 26 ppm
		29.59-29.72 m 0.13 m lost core
		29.72-29.89 m upper half- whitish-buff, sucrosic as above, with fine pyrite as well as rust; lower half- light-grey, vitrophyric with 1-2% disseminated pyrite some along fractures
		SAMPLE 4135 29.72-29.89 m 0.17 m (representative chips) Au 27 ppb, Cu 172 ppm, Mo 21 ppm, Pb 2 ppm, Zn 29 ppm
		29.89-31.24 m 1.35 m lost core and previously sampled
		31.24-31.36 m whitish-buff, sucrosic as above, up to 5% finely disseminated pyrite
		31.36-31.44 m 0.08 m lost core
31.44-32.00	0.56	Intermediate tuff, medium-dark-grey, similar to intermediate tuff uphole, 2-3% disseminated pyrite
		31.62-31.85 m 0.23 m lost core
		31.85-32.00 m some pyrite along dark laminae at 90° CA
		SAMPLE 3029 (Imperial Oil Enterprises Ltd.) 30.48-32.00 m 1.52 m Cu 0.06%, MoS_2 0.003%
32.00-33.53	1.53	Rhyolite tuff, similar to intermediate tuff above but grading to light-grey, 2-3% disseminated pyrite, more abundant pyrite on fracture surfaces

Metrage	Interval	Description
		SAMPLE 4136 31.24-32.16 m 0.61 m (representative chips) Au 235 ppb, Cu 515 ppm, Mo 43 ppm, Pb 1 ppm, Zn 34 ppm
		32.16-32.76 m 2-3% finely disseminated pyrite, rust and pyrite on fractures
		32.76-32.92 m 0.16 m lost core
		32.92-33.22 m 1-2% disseminated pyrite locally more, few fragments of intermediate tuff
		33.22-33.31 m fragments of rhyolite and intermediate tuff with 1-2% disseminated pyrite (probably lighter and darker-grey tuff interlayered but rubbly core makes observations of this impossible)
		SAMPLE 4137 32.16-33.31 m 0.99 m (split core) Au 16 ppb, Cu 153 ppm, Mo 30 ppm, Pb 1 ppm, Zn 27 ppm
		33.31-33.53 m 0.22 m lost core
33.53-33.72	0.19	Magnetitic flow or tuff, dirty dark-greenish-grey, altered, local clots of magnetite to 1 cm or so, few clots of pyrite, irregular gypsum veinlets 2 mm wide at 30° CA but not parallel to each other (possibly a fault)
		33.53-33.61 m indistinctly brecciated: fragments of whitish tuff 4 cm or so in size
		33.72m lower contact marked by 3 mm veinlet of whitish gypsum at 30° CA
33.72-42.06	8.34	Rhyolite tuff, greyish to light-greyish white locally with up to 10% finely disseminated pyrite
		33.77-33.89 m brecciated, irregularly veined with irregular gypsum to 3 mm, 2-cm black magnetic layer at 30° CA, clots of pyrite in aggregates to 2 cm, abundant disseminated pyrite, rust on fracture surfaces
		SAMPLE 4139 33.53-33.89 m 0.36 m (split core) Au 220 ppb, Cu 780 ppm, Mo 12 ppm, Pb 2 ppm, Zn 70 ppm
		33.89-34.10 m light-grey-buff, 1% pyrite, locally brecciated
		34.10-34.59 m 0.49 m lost core

Metrage	Interval	Description
		34.59-35.10 m whitish-buff similar to interval above grading to greyish, 1-3% finely disseminated pyrite (so fine amount difficult to estimate) pyrite more abundant along fractures, pyrite vein 7 cm long by 1½ mm wide at 10° CA, odd bit of MoS_2? on one fracture surface; bottom fragment shows a contact at 5°-10° CA between whitish-buff and medium-grey below with more pyrite in medium-grey
		SAMPLE 4140 33.89-35.10 m 0.72 m (split core) Au 105 ppb, Cu 155 ppm, Mo 45 ppm, Pb 4 ppm, Zn 53 ppm
		35.10-35.66 m 0.56 m lost core
		35.66-35.97 m whitish-buff, sucrosic, 20% rust spots; two light-grey fragments with 2% finely disseminated pyrite
		35.97-36.27 m 0.30 m lost core
		36.27-36.65 m some fragments of whitish-buff with sparse pyrite but moderate rust and rust along fractures; other fragments of medium-grey with sparse disseminated pyrite
		SAMPLE 4141 35.66-36.65 m 0.69 m (representative chips) Au 30 ppm, Cu 112 ppm, Mo 85 ppm, Pb 1 ppm, Zn 26 ppm
		36.65-36.73 m 0.08 m lost core
		36.73-36.81 m medium-grey, sparse disseminated pyrite
		36.81 m contact at about 30° CA
		36.81-36.93 m dark-grey, brecciated and irregularly veined with light-buff - appears bleached for 1-2 mm adjacent to whitish veins
		36.93-37.09 m whitish-buff with rusty spots
		37.09-37.64 m 0.55 m lost core
		37.64-37.74 m light-greyish white, brecciated at top with fragments to 1 cm or so in a blackish matrix, rust on fracture surfaces
		SAMPLE 4142 36.73-37.74 m 0.46 m (split core and representative chips) Au 31 ppb, Cu 95 ppm, Mo 85 ppm, Pb 1 ppm, Zn 22 ppm
		37.74-38.10 m 0.36 m lost core
		38.10-38.28 m fragments of white sucrosic and medium-grey with sparse finely disseminated pyrite
		38.28-38.56 m 0.28 m lost core

Metrage	Interval	Description
		38.56-39.19 m whitish-buff, sucrosic, sparse pyrite but locally to 1% disseminated, minor rust locally brecciated, odd pyrite-filled veinlet 2 mm wide
		39.09-39.19 m prominent streak of pyrite at 38° CA
		SAMPLE 4143 38.10-39.19 m 0.81 m (split core) Au 34 ppb, Cu 153 ppm, Mo 34 ppm, Pb 1 ppm, Zn 33 ppm
		39.19-39.47 m 0.28 m lost core
		39.47-39.60 m light-grey, sparse pyrite some in clots to 5 mm
		39.60-39.63 m breccia : subangular pieces of dark-grey tuff to 2 cm in size irregularly surrounded by white border 1-2 mm thick, interstices partly filled by pyrite, breccia zone at 30° CA
		39.63-39.93 m medium-grey, 1-2% finely disseminated pyrite, rusty fractures, whitish rusty veins at 30° CA
		39.93-40.11 m dark-grey, fractured with irregularly branching whitish pyrite-bearing veins, probably 5% pyrite in whole rock
		40.11-40.53 m 0.42 m lost core
		40.53-40.69 m dark-grey similar to that above, fractured with 5% or more pyrite in irregular clots to 1 cm and along fractures
		SAMPLE 4144 39.47-40.69 m 0.80 m (split core) Au 65 ppb, Cu 390 ppm, Mo 51 ppm, Pb 1 ppm, Zn 50 ppm
		40.69-41.14 m dark-grey, slightly magnetic, 2-3% disseminated pyrite, 10-15% light- or medium-grey fragments to 2-3 cm with 5% or more pyrite
		41.14-41.76 m 0.62 m lost core
		41.76-41.95 m fragments of moderately magnetic dark-grey with sparse pyrite
		SAMPLE 4145 40.69-41.95 m 0.64 cm (split core) Au 235 ppb, Cu 410 ppm, Mo 175 ppm, Pb 1 ppm, Zn 52 ppm
		41.95-42.06 m 0.11 m lost core
42.06-66.70	24.64	Basic lava, dark-grey, grain size 2-3 mm or more in upper part irregularly decreasing to ½-1 mm downhole, upper contact not observed

Metrage	Interval	Description
		42.06-42.37 m slightly magnetic, fractures to ½ mm filled with pyrite, 1% disseminated pyrite, white veinlets 2-3 mm wide at 30° CA, 3-5% dark clots of magnetite to 4 mm, moderate epidote along fractures
		42.37-42.50 m 0.13 m lost core
		42.50-43.59 m more typical gabbro or coarse flow, about 60-70% light-grey feldspars with dark minerals in interstices, slightly magnetic, whitish veinlets 2 mm wide at about 30° and 45° CA, 2-3% pyrite both disseminated and along narrow veinlets with most along veinlets, becoming fresher downhole
	SAMPLE 4146	42.06-43.59 m 1.40 m (split core) Au 47 ppb, Cu 298 ppm, Mo 115 ppm, Pb 1 ppm, Zn 43 ppm
		43.59-44.30 m gabbroic as previous, moderately magnetic, 1% disseminated pyrite in grains to 1-2 mm mostly less, fewer fractures with pyrite than interval above
		44.30-44.91 m gabbroic as previous, 1% disseminated pyrite, few fractures to 2 mm some with discontinuous minor pyrite, some to 2 mm with brown gypsum
	SAMPLE 4610	43.59-44.91 m 1.30 m (split core) Au 14 ppb, Cu 190 ppm, Mo 5 ppm, Pb 1 ppm, Zn 40 ppm, Ni 56 ppm
		44.91-45.48 m gabbroic as previous with feldspars to 5 mm, aggregates of pyrite to 1-2 cm along fractures some rusty
	SAMPLE 4147	44.91-45.48 m 0.57 m (split core) Au 31 ppb, Cu 313 ppm, Mo 235 ppm, Pb 4 ppm, Zn 40 ppm
		45.48-45.57 m 0.09 m lost core
		45.57-46.18 m grain size 1-2 mm, sparse disseminated pyrite
		46.18-47.09 m feldspars to 5 mm, dark magnetic streaks to 2 cm long by 2-3 mm wide along core, very sparse pyrite but locally more abundant along fractures where they are more numerous, rust on fractures
		46.18-46.72 m highly fractured
		46.37 m white quartz vein 3 mm thick at 70° CA
		46.72-46.77 m 0.05 m lost core
		46.77-46.91 m 60% dark aggregates to 4 mm surrounded by white matrix
		46.99-47.44 m highly fractured

Metrage	Interval	Description
		46.94-47.09 m ¼-mm pyrite stringers more abundant
	SAMPLE 4611	45.57-47.09 m 1.47 m (split core) Au 75 ppb, Cu 375 ppm, Mo 98 ppm, Pb 1 ppm, Zn 40 ppm, Ni 44 ppm
		47.09-47.32 m moderately magnetic, 1-2% pyrite disseminated and in fractures, few elongated dark magnetic streaks in addition to magnetic matrix
		47.32-47.55 m few prominent white veins to 5-6 mm wide at 45° CA, sparse pyrite
		47.55-48.20 m sparse pyrite, grain size decreasing to 1 mm or so near bottom of interval, few whitish-buff veinlets at 45°
		47.84-47.93 m more abundant ¼-mm pyrite-filled fractures
	SAMPLE 4612	47.09-48.20 m 1.11 m (split core) Au 18 ppb, Cu 190 ppm, Mo 170 ppm, Pb 1 ppm, Zn 35 ppm, Ni 45 ppm
		48.20-48.36 m 0.16 m lost core
		48.36-48.93 m moderately magnetic, 2-3% pyrite both disseminated and in fine fractures but mostly disseminated particularly in lower part of interval
		48.49-48.59 m crumbly and altered, likely a fault
	SAMPLE 4148	48.36-48.93 m 0.57 m (split core) Au 50 ppb, Cu 285 ppm, Mo 88 ppm, Pb 1 ppm, Zn 37 ppm
		48.93-49.33 m grain size 2-3 mm, sparse pyrite more abundant on fractures, rusty fractures
		49.07 m white veinlet with pyrite 2 mm wide at 45°
		49.33-49.99 m moderately magnetic, sparse pyrite - 10% disseminated and 90% along fractures
		49.99-51.05 m grain size mostly about 1 mm, few coarser white areas to 3 mm in size mostly associated with pyrite-bearing fractures, irregular areas to 8 cm mottled with light-grey or buff-colored spots
		50.12 m smears of MoS_2 on fracture at 32° CA with pyrite and sparse chalcopyrite
		50.59 m white stringer to 5 mm wide with 10-15% pyrite at 30° CA
		50.59-50.88 m few dark magnetic streaks 3-4 cm long, some S-shaped, irregular blobs to 6 cm with higher proportion of whitish grains associated with pyrite

Metrage	Interval	Description
		50.88-51.05 m grain size mostly about 1 mm
	SAMPLE 4613	48.93-51.05 m 2.12 m (split core) Au 22 ppb, Cu 235 ppm, Mo 35 ppm, Pb 1 ppm, Zn 32 ppm, Ni 44 ppm
		51.05-52.59 m grain size mostly ½-1 mm, moderately magnetic, dark magnetic streaks, sparse pyrite, few irregular whitish streaks and blobs, local pyrite aggregates to 2 cm, some fracture surfaces 20% or more covered with thin pyrite films, irregular greenish-grey-pink blobs to 5 cm, pyritiferous stringers 3 mm wide at 40° CA, orange-brown calcite along some fractures; may be basal part of a flow based on fine-grain size and jumbled appearance
		52.40 m fine-grained MoS_2 with pyrite along fracture at 35° CA
		52.59 m veinlet of white quartz 8 mm wide at 70° CA
		52.59-53.67 m grain size about 1 mm, magnetic, local aggregates of pyrite to 3 cm with chalcopyrite comprising 5% of sulfides, 2-3% pyrite disseminated and to 2 or 3 mm along fractures, few poikilitic feldspars? to 1 cm at bottom of interval
		52.94 m minor smear of MoS_2 on fracture at 65°
		53.67-54.63 m grain size about 1 mm, magnetic, sparse pyrite at top of interval locally increasing to 4% disseminated downhole
		54.63-55.32 m 0.69 m lost core
		55.32-55.60 m locally less magnetic than uphole, 2-3% pyrite disseminated and in stringers to 3 mm wide
		55.60-55.88 m 0.28 m lost core
		55.88-56.85 m grain size ½ mm, magnetic generally but locally not magnetic, calcite veinlet 2-3 mm wide at 20° CA, 5-10% disseminated pyrite, white vein 5 mm wide at 45° CA, calcite along some fractures
		56.85-58.30 m grain size ½-1 mm, moderately magnetic, 1-2% pyrite disseminated and along ¼-mm fractures, locally to 5% or more, sparse chalcopyrite, one or two irregular pyrite-bearing white stringers to 3 mm wide
		58.30-59.22 m moderately magnetic, 3-4% pyrite disseminated and along fractures associated with sparse chalcopyrite, some fractures coated with calcite, others rusty, local irregular whitish patches

Metrage	Interval	Description
		59.22-60.20 m grain size ½ mm, moderately magnetic, 3% pyrite as disseminated aggregates and along fractures, one lighter-greenish-grey layer 2 cm thick at 65° CA, few irregular blobs of whitish grey
		60.06-60.11 m 0.05 m lost core
		60.20-60.68 m grain size ½-1 mm, magnetic, 2-4% pyrite, local irregular lighter-green-grey masses 8 cm in size
		60.68-61.01 m moderately magnetic, 5-10% pyrite with much disseminated
		61.01-61.12 m 0.11 m lost core or missing from previous splitting and sampling
		61.12-61.26 m 3-4% pyrite
		61.26-61.74 m grain size ½-1 mm, variably magnetic
		61.74-61.86 m 0.12 m lost core or missing from previous splitting and sampling
		61.86-63.40 m grain size ½ mm, magnetic, variable pyrite to 5% or more some in aggregates to 3 cm, white veinlet 4 mm wide about 45° CA
	SAMPLE 3030	(IOE Ltd.) 61.00-62.52 m 1.52 m Cu 0.06%, MoS_2 0.003%
		63.40-63.77 m moderately magnetic, 1-2% pyrite disseminated and in fractures, orange-brown calcite on fractures, veinlets 3 mm thick and aggregates of massive pyrite
	SAMPLE 4614	61.86-63.77 m 1.91 m (representative chips and split core) Au 49 ppb, Cu 290 ppm, Mo 32 ppm, Pb 1 ppm, Zn 32 ppm, Ni 48 ppm
		63.77-63.85 m sucrosic white tuff with pyrite to 1 mm thick, irregular dark markings and blotches on surface, some disseminated pyrite, rusty fractures, sharp upper contact at 75° CA, lower contact irregular - probably a bomb
		63.85-64.12 m magnetic dark-grey volcanic again
	SAMPLE 4149	63.77-63.92 m 0.15 m (split core) Au 25 ppb, Cu 60 ppm, Mo 16 ppm, Pb 1 ppm, Zn 30 ppm
		64.12-64.79 m grain size about 1 mm, magnetic 2-3% pyrite, rust on fractures, some irregular lighter-grey masses, stringers of massive pyrite 2-3 mm thick at 65° CA

Metrage	Interval	Description
		64.79-65.76 m grain size ½ mm, magnetic, 2% pyrite
		SAMPLE 4615 63.92-65.22 m 1.30 m (split core) Au 49 ppb, Cu 295 ppm, Mo 24 ppm, Pb 1 ppm, Zn 29 ppm, Ni 44 ppm
		65.76-66.70 m grain size ½-1 mm, magnetic, 2-3% pyrite
		SAMPLE 4616 65.22-66.70 m 1.44 m (split core) Au 29 ppb, Cu 310 ppm, Mo 230 ppm, Pb 1 ppm, Zn 32 ppm, Ni 47 ppm
66.70-69.95	3.25	"Wormy" tuff, medium-grey, non-magnetic except locally along fractures with few magnetite grains to ½ or 1 mm, 5-10% pyrite mostly along fractures, but some finely disseminated, probably sparse chalcopyrite; diamond cut surface shows 25% or so irregular elongated whitish blobs ½-8 mm in size some with aggregates of pyrite 1-2 mm across as cores; 5% dark streaks to 5 mm long by 1-2 mm wide all in fine greyish matrix, some dark minerals bordered by whitish blobs possibly formed by crystallization of a greyish-glassy matrix, narrow randomly oriented fractures to ½ mm with discontinuous pyrite, epidote along one or two fractures, minor calcite on some orange-coated fractures, odd white veinlet 2-3 mm wide at 35° CA, whitish blobs and dark streaks distinctly oriented at about 40° CA, some dark streaks with disseminated pyrite
		67.71 m 1½-cm thick layer consisting almost completely of whitish blobs merging into each other adjacent to orange-brown coated fracture at 35° CA
		SAMPLE 4150 66.70-68.01 m 1.31 m (split core) Au 25 ppb, Cu 325 ppm, Mo 39 ppm, Pb 6 ppm, Zn 38 ppm
		69.10-69.49 m 0.39 m lost core
		69.49-69.72 m with up to 15% white euhedral crystals (feldspar?) to 4 mm in size, mostly less
		SAMPLE 4182 68.01-69.72 m 1.32 m (representative chips and split core) Au 43 ppb, Cu 260 ppm, Mo 45 ppm, Pb 1 ppm, Zn 33 ppm
		69.72-69.95 m 0.23 m lost core

Metrage	Interval	Description
69.95-72.12	2.17	Basic lava, dark-grey, grain size mostly ½ mm but locally coarser, probably about equal proportions light-grey feldspars and darker pyroxenes, moderately magnetic, few irregular wisps of magnetite, 3% pyrite finely disseminated and along fractures, few white veinlets 1-2 mm wide at 40° CA, one at 25° CA
		SAMPLE 4617 69.95-71.01 m 1.06 m (split core) Au 32 ppb, Cu 312 ppm, Mo 31 ppm, Pb 1 ppm, Zn 36 ppm, Ni 50 ppm
		71.01-71.17 m 0.16 m lost core
		71.17-71.31 m grain size about 1 mm, moderately magnetic, at least one vein 3 mm wide of massive pyrite at 18° CA, pyrite also in finer fractures, irregular volumes to 3 cm in size with coarser and more abundant white minerals
		71.31-71.48 m altered rusty-orange zone with calcite possibly a fault, mostly crumbly and earthy, fracture at about 20° CA
		SAMPLE 4183 71.17-71.48 m 0.31 m (split core) Au 72 ppb, Cu 200 ppm, Mo 64 ppm, Pb 1 ppm, Zn 45 ppm
		71.48-71.71 m 0.23 m lost core
		71.71-72.03 m grain size 2-3 mm, magnetite veinlets and wisps to 5-6 cm long by 2-3 mm wide
		72.03-72.12 m lighter-green-grey, grain size up to ¼-½ mm, few aggregates of epidote to 2 mm, some buff-white grains, 3-4% pyrite mostly along fractures, sparse chalcopyrite along fractures
72.12-72.32	0.20	Latite porphyry intertongued with basic lava
		72.12-72.15 m latite porphyry - light-grey-white, 10-15% white masses to 5 mm with fuzzy borders (feldspar phenocrysts?) in fine-grained matrix, 5% biotite, sharp upper and lower contacts at 50° CA
		72.15-72.19 m basic lava similar to 72.03-72.12 m, lower contact at 28° CA
		72.19-72.32 m latite porphyry similar to previous, biotite phenocrysts to 2-3 mm in size
72.32-84.80	12.48	Basic lava, dark-grey

Metrage	Interval	Description
		72.32-72.73 m grain size to 1 mm, moderately magnetic with dark magnetic wisps as in basic lava uphole, 3% pyrite most prominent along fractures
		72.64 m 2-3 mm thick altered earthy veinlet at 28° CA
		72.73-73.99 m grain size 1 mm, magnetic, 3% pyrite disseminated and along fractures, one white veinlet 2-3 mm thick with some pyrite along core for 35 cm
		SAMPLE 4618 71.71-73.50 m 1.79 m (split core) Au 41 ppb, Cu 320 ppm, Mo 150 ppm, Pb 1 ppm, Zn 36 ppm, Ni 45 ppm
		73.99-74.98 m grain size ½-1 mm, moderately magnetic, 2-3% pyrite mostly along fractures, odd pyrite clot to 3 cm associated with white veins 1-3 mm or so wide partly rimmed by green epidote 2-5 mm thick
		74.98-75.34 m 0.36 m lost core
		75.34-75.68 m grain size 1-2 mm, black magnetic band 6-7 mm wide at 38° CA, interlocking white feldspar laths mostly ½ - 3 or 4 mm long in 3-cm interval below magnetic band
		75.68-76.67 m porphyritic, 5-10% white feldspar phenocrysts to 2 by 6 mm in size some in aggregates randomly oriented in aphanitic black matrix, as magnetic as previously or more so, probably 2-3% pyrite along ¼ mm fractures and few larger grains, rusty fractures, white veinlets to 3 mm wide, irregular upper contact
		75.96-76.67 m grain size of matrix coarsening to ¼ mm, black magnetic streaks, slightly more magnetic than non-porphyritic lava uphole, few white veinlets 1-2 mm wide, 2-3% pyrite along fractures and disseminated
		76.67 m sharp irregular lower contact averaging 35° CA
		SAMPLE 4619 75.34-76.67 m 1.33 m (split core) Au 24 ppb, Cu 445 ppm, Mo 19 ppm, Pb 1 ppm, Zn 32 ppm, Ni 27 ppm
		76.67-76.81 m lighter-green-grey (altered?) than basic lava uphole, magnetic but locally non-magnetic
		76.81-77.30 m dark-grey locally paler-green-grey with irregular white veins and irregular black magnetic clots to 2 cm in size, moderately magnetic throughout, pyrite along fractures

Metrage	Interval	Description
		77.30-77.39 m half core - magnetic porphyritic basic lava similar to that uphole; other half separated by 1-cm white vein - irregularly veined with white, pyrite, and magnetic clots
		77.39-77.73 m porphyritic, similar to 75.68-76.67 m, grain size to 1 mm, wispy black magnetic streaks 4 cm long by 1-2 mm wide many oriented at about 60° CA; 1-cm wide white vein above extends 6 cm into porphyritic basic lava; epidote associated with pyrite clots near bottom of interval
		77.73 m irregular contact with non-porphyritic lava below averages 38° CA
		77.73-79.87 m magnetic, 3-4% pyrite, white veins 2-3 mm thick - one at 10° CA - some irregular with epidote and magnetite clots to 3 cm
	SAMPLE 4620	77.85-79.87 m 2.02 m (split core) Au 52 ppb, Cu 630 ppm, Mo 89 ppm, Pb 1 ppm, Zn 30 ppm, Ni 46 ppm
		79.87-80.57 m somewhat lighter-grey than previous, grain size 1 mm, magnetic, 3-4% pyrite, white veins as previous with one 8 mm wide
		80.57m irregular vein 1-2 cm wide at 38° CA with 40% pyrite in massive aggregates, 20% epidote, 5-10% magnetite, balance white minerals (quartz?)
		80.57-84.80 m porphyritic, similar to previous, magnetic, clots to 2 cm in size of pyrite, epidote, magnetite, and white minerals (quartz?), 3-4 or even 5% pyrite mostly along fractures, part brecciated with interstices mostly filled with black magnetic material and few per cent pyrite
		82.19-82.35 m earthy rusty rubble, possibly a fault
		82.35-82.60 m 0.25 m lost core
		82.82-82.89 m earthy brown rubble
		82.89-82.91 m 0.02 m lost core
		82.91-83.11 m brecciated with brown clayey material along fractures
		83.11-83.52 m with white veins and pyrite as previous
	SAMPLE 4184	82.19-83.52 m 1.06 m (split core) Au 72 ppb, Cu 1000 ppm, Mo 77 ppm, Pb 1 ppm, Zn 45 ppm

Metrage	Interval	Description
		83.61-83.73 m mostly earthy brown rubble
		83.73-83.85 m 0.12 m lost core
		83.85-83.91 m veined with quartz and magnetite
		83.91-84.20 m brecciated, cemented with brown clayey material, abundant magnetite-bearing quartz veins
		84.58-84.80 m 5-10% feldspar phenocrysts as previous, medium-green-grey, heavily veined with white quartz veins in various orientations and up to 5-6 mm thick, pyrite in quartz veins as well as ¼-½-mm veins cutting the quartz veins, abundant rust on fractures, some pyrite aggregates to 2 cm by 3 mm, minor chalcopyrite on fractures
		84.64-84.80 m not magnetic in altered green-grey part
		SAMPLE 4185 83.52-84.80 m 1.16 m (split core) Au 265 ppb, Cu 1150 ppm, Mo 92 ppm, Pb 1 ppm, Zn 50 ppm
84.80-94.79	9.99	Latite porphyry, medium-grey, 10-15% white euhedral feldspar phenocrysts to 1 cm in size but mostly 2-4 mm, 1-2% biotite phenocrysts to 2 mm, matrix medium-grey with grain size mostly less than 1 mm but with size gradation of feldspar phenocrysts down to size of feldspars in matrix, rusty fractures, less than 1% finely disseminated pyrite in matrix; contact with porphyritic basic lava above obscure because of previous splitting of core and its rubbly nature
		85.23-85.68 m only partly fresh, gypsum on some fractures locally, thin film of pyrite covering 10-20% of a few fractures
		SAMPLE 4186 84.80-85.68 m 0.88 m (representative chips) Au 56 ppb, Cu 225 ppm, Mo 16 ppm, Pb 1 ppm, Zn 38 ppm
		85.68-86.13 m up to 20% white phenocrysts some of which appear to be quartz about same size as feldspar phenocrysts, up to 5% biotite and hornblende phenocrysts, about 1% sulfides disseminated and along fractures - mostly pyrite but some chalcopyrite
		86.13-86.68 m hard, tough, phenocrysts becoming buff-colored in lower part of interval, up to 10% biotite and hornblende? phenocrysts grading in size from 2-3 mm to less than ½ mm, slightly higher proportion of dark minerals in matrix than higher up hole, sparse sulfides mostly along fractures

Metrage	Interval	Description
		SAMPLE 4187 85.68-86.68 m 1.00 m (representative chips) Au 56 ppb, Cu 173 ppm, Mo 7 ppm, Pb 3 ppm, Zn 37 ppm
		SAMPLE 3031 (IOE Ltd.) 84.80-86.13 m 1.33 m Cu 0.04%, MoS_2 trace
		86.68-86.89 m 0.21 m lost core
		87.33-88.85 m medium-grey as previous, sparse disseminated chalcopyrite, feldspar phenocrysts buff-colored in lower part
		88.13 m fracture partly coated with chalcopyrite
		SAMPLE 4188 86.89-88.85 m 1.96 m (representative chips) Au 2140 ppb, Cu 130 ppm, Mo 5 ppm, Pb 8 ppm, Zn 42 ppm
		88.85-89.42 m buff feldspar phenocrysts
		89.42 m irregular contact at about 30^{o} CA
		89.42-89.86 m dark minerals all altered to light-rusty-brown similar to feldspar phenocrysts
		89.61-89.86 m earthy and chalky, local calcite
		SAMPLE 4189 88.85-89.86 m 1.01 m (representative chips) Au 2745 ppb, Cu 22 ppm, Mo 7 ppm, Pb 6 ppm, Zn 39 ppm
		SAMPLE 3032 (IOE Ltd.) 86.13-89.61 m 3.48 m Cu 0.03% MoS_2 0.002%
		89.86-90.13 m 0.27 m lost core
		90.13-90.68 m phenocrysts and dark minerals mostly all altered to light-rusty-brown but such alteration only extends 1 cm or so along both sides of cracks; locally where not altered, matrix appears fresh, dark minerals also but feldspar phenocrysts are all pale-green - probably sericitic alteration
		90.68-92.14 m buff-brown color from brown specks throughout matrix from altered dark minerals, locally unaltered matrix with less than 1% disseminated sulfides, feldspar phenocrysts altered greenish, moderate rust on fractures
		SAMPLE 4190 90.13-91.09 m 0.96 m (representative chips) Au 575 ppb, Cu 18 ppm, Mo 8 ppm, Pb 5 ppm, Zn 36 ppm

Metrage	Interval	Description
		SAMPLE 4191 91.09-92.14 m 1.05 m (representative chips) Au 195 ppb, Cu 18 ppm, Mo 7 ppm, Pb 5 ppm, Zn 39 ppm
		92.14-93.24 m 1.10 m lost core
		93.24-93.88 m mostly altered brownish but locally unaltered and whitish
		93.55-93.88 m up to 2-3% finely disseminated sulfides
		SAMPLE 4192 93.24-93.88 m 0.64 m (representative chips) Au 150 ppb, Cu 37 ppm, Mo 14 ppm, Pb 4 ppm, Zn 30 ppm
		93.88-94.52 m 0.64 m lost core
		94.52-94.79 m mostly altered brownish, few dark fragments to 4-5 mm possibly xenoliths
		SAMPLE 4193 94.52-94.79 m 0.27 m (representative chips) Au 35 ppb, Cu 45 ppm, Mo 18 ppm, Pb 3 ppm, Zn 36 ppm
		SAMPLE 3033 (IOE Ltd.) 89.61-94.79 m 5.18 m Cu 0.02% MoS_2 trace
94.79-97.05	2.26	Basic lava, medium- to dark-grey, similar to basic lava uphole, grain size to 1 mm, moderately magnetic, few per cent disseminated pyrite
		94.79-95.10 m dark-grey, 4% sulfides including some chalcopyrite disseminated and along fractures, local whitish veins to 3 mm wide
		95.10-95.55 m 0.45 m lost core
		95.55-96.17 m locally green-grey, irregularly mottled with buff to 1 cm long, black magnetic streaks, 4-5% sulfides disseminated and along fractures, mostly pyrite but some chalcopyrite, local quartz veins to 8 mm wide with 5-10% clots of pyrite and less epidote at 30° CA
		SAMPLE 4194 94.79-96.17 m 0.93 m (split core) Au 200 ppb, Cu 470 ppm, Mo 40 ppm, Pb 1 ppm, Zn 30 ppm
		96.17-96.32 m 0.15 m lost core
		96.32-97.05 m dark-grey, grain size decreasing from about 1 mm to very fine grained about 1 cm from lower contact at 55° CA

Metrage	Interval	Description
97.05-97.54	0.49	Latite porphyry
		97.05-97.10 m light-grey, 10-15% white crystals from less than 1 mm to 1 cm in size in light-grey non-magnetic matrix, 1-2% biotite grains to 2 mm, numerous rusty stringers at all orientations to about 1 mm wide; lower contact irregular but averages 38-40° CA
		SAMPLE 4195 97.00-97.10 m 0.10 m (split core) Au 205 ppb, Cu 395 ppm, Mo 55 ppm, Pb 1 ppm, Zn 35 ppm
		97.10-97.46 m medium-grey, very fine grained to aphanific, non-magnetic, irregularly veined with white quartz, fine pyrite veinlets, gypsum on some fractures
		97.46-97.54 m 20-30% white partly euhedral grains and masses to 8 mm in size, 4-5% dark biotite grains, 1-2% sulfides disseminated and along fractures all in light-grey matrix; upper contact irregular but averages about 32° CA; lower contact more regular at 55° CA
97.54-103.94	6.40	Basic lava, dark-grey similar to basic lava uphole; grain size about 1 mm, magnetic, pyrite disseminated and along fractures
		97.77-97.97 m 0.20 m lost core
		97.97-98.23 m irregularly veined with 1-mm white and narrow pyrite, irregularly mottled with lighter-grey blobs and clots
		SAMPLE 4621 97.97-98.74 m 0.77 m (split core) Au 80 ppb, Cu 323 ppm, Mo 91 ppm, Pb 21 ppm, Zn 38 ppm, Ni 55 ppm
		99.52-99.53 m 0.01 m lost core
		99.90-101.48 m quartz veins to 1 cm wide with pyrite, epidote, and magnetite in upper part, locally non-magnetic because of alteration, odd aggregate of chalcopyrite to 1 cm or more in size, 2-3% pyrite dissiminated and along fractures and veins
		SAMPLE 4196 100.04-101.48 m 1.44 m (split core) Au 35 ppb, Cu 555 ppm, Mo 47 ppm, Pb 1 ppm, Zn 34 ppm
		101.48-102.41 m generally not as many quartz veins with pyrite as previous run, calcite on some fractures
		102.01-102.15 m quartz veins and mottling with epidote and pyrite

Metrage	Interval	Description
		102.41-103.94 m local buffish irregular blotches to 3 cm in size with pyrite and epidote, 2-3% pyrite, locally altered and brecciated
		103.02-103.12 m oxidized rubble
		SAMPLE 4197 103.02-103.12 m 0.10 m (split core) Au 220 ppb, Cu 530 ppm, Mo 220 ppm, Pb 1 ppm, Zn 58 ppm
		103.12-103.29 m 0.17 m lost core
		SAMPLE 4622 103.31-103.94 m 0.63 m (split core) Au 34 ppb, Cu 395 ppm, Mo 36 ppm, Pb 1 ppm, Zn 32 ppm, Ni 48 ppm
103.94	-	End of hole