

091210

105-K-2 —

SWIMLAKE AREA

SB 11 Y7582□

APRIL 1979

1 HOLE 1,048 FT

CYPRUS ANVIL MINING CORPORATION

DD-136

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DIAMOND DRILL CORE LOG

091210

Hole Number: 76-01Fabric Orientation DiagramProject: Swim Lake (13)Location: Swim LakeClaim: SB

Terr. Plane Co-ordinates: _____ N

_____ E

Grid Co-ordinates: 76E6+95N

All symmetry determinations looking

W with S₂ dippingN with dip azimuth 000°.Total Depth: 1,724'Purpose: To test down dip extension of sulphides in 75-04.Logged by: R. P. Hill Date(s) Logged: March 1976

Drilling

Contractor: Arctic Diamond Drilling Core: Size From To Collar Cased and Capped: YesBQ 12 1,724

Started: _____ Completed: _____

Downhole Survey:

Depth	Observed Azimuth	True Azimuth	Inclination
0		0.0	0.0
200'	S10W	223°	2.5°
400	S 2E	210	9.5
600	S13W	226	11.0
800	S40W	245	12.0
1,000	S46W	259	14.0
1,200	S34W	247	15.0
1,400	S17W	230	12.5
1,600	S14W	227	11.5

Survey Method: Sperry-Sun

105-K-2

Lithologic Log

Logged By: R. P. Hill

Code	From	To	Unit	Code	Description
1	10 14	16 20	22 23	25 27	
L	10 0	13 0	1		H ₂ O
L	13 0	14 2 0	2		OB
L	14 2 0	15 0	3		Interlaminated medium grey Ms-Ch-Gr phyllite, light grey calcareous phyllite, and light green calc-silicate bands (Q + Actin). A few late calc-silicate veins.
L	15 0	18 2 0	4		Soft, interlaminated medium grey Ms-Ch-Gr phyllite, Ms-Ch phyllite and light green calc-silicate veins (?Act + Chlor + Qtz + cc), apparently veins post S ₁ , pre S ₂ . Trace of sulphide - Po with minor Cp - in calc-silicate veins. This section of core somewhat soft and shattered.
L	18 2 0	19 5	5		Interlaminated greenish grey Ms-Ch phyllite, light greyish green calc-silicate and dark grey graphitic Ms-Ch phyllite. Proportion of dark grey graphitic layers increases gradually downwards. A few post S ₂ quartz lenses 6 to 9" thick. Crystals of sulphide occur at regular intervals - up to 1/2" square, usually 3 to 6" apart. Most are pseudomorphs of Po after Py, some are Py. Many are mantled with quartz, some have quartz growing in pressure-shadows which have grown in S ₂ . Some appear to be square Py rods growing along F ₂ . Some have grown post S ₂ . Also a few post S ₁ - pre S ₂ quartz-calc-silicate veins containing traces of Po. Slight post S ₂ injection of Po at 425-426 feet. Overall, unit is quartz poor, non-calcareous.
L	19 5	17 0	6		Interlaminated dark grey graphitic Ch Ms-phyllite, medium grey Ch+Ms-phyllite and light greenish grey actin+Ch-calc-silicate containing minor Po. Generally slightly higher proportion of dark, graphitic laminae than in unit above, giving slightly darker overall color. Overall, unit is quartz-poor, non-calcareous. Many thin post S ₁ - pre S ₂ calc-silicate veins containing traces of Po. Minor late (post S ₂) injection of Po from 436.4-436.7.

Lithologic Log

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Code	From			To			Unit		Code	Description
	10	14	16	20	22	23	25	27		
L	4	6	7	4	9	7	0	17		Same rocks as above unit but abundant late (post S_2) vein injection. Veins principally quartz with minor actinolite and/or diopside and traces of Po. Veins up to 1 ft. thick. Non-calcareous, quartz-poor unit.
L	4	9	7	0	5	1	8	0	8	Interlaminated quartz-rich, graphite poor Ms-Ch phyllite (33%), quartz-poor, graphitic-Ch phyllite (33%) and quartz +?epidote +?actinolite calc-silicate (33%). Non-calcareous. Also contains a few thin post- S_1 - pre S_2 quartz-calc-silicate veins with traces of Po, and post S_2 quartz veins up to 2 feet thick containing some calc-silicate (?diopside) and traces of Po. Non-calcareous, fairly quartz rich.
L	5	1	8	0	5	3	7	0	9	Interlaminated graphitic chlor phyllite (50%) and quartz-Ms-Chl-phyllite (50%). Quartz +?diopside veins (as above) up to 6" thick common. Non-calcareous, quartz rich.
L	5	3	7	0	5	5	3	0	10	Dark grey graphitic chlorite phyllite with layers a few inches to a foot thick, consisting of interlayered graphitic Qtz-chlorite phyllite and greenish grey Qtz +?actin. calc-silicate. A few post S_1 - pre S_2 calc-silicate veins with traces of Po, also thin post S_2 quartz-diopside-chlorite veins with traces of Py and Cp. Non-calcareous, quartz-poor.
L	5	5	3	0	5	6	4	0	11	Interlaminated Ms-Ch-quartzite, graphitic chlorite phyllite and quartz-?epidote-?actinolite calc-silicate (resembles 497-518). Non-calcareous, quartz-rich unit. A few post S_1 - pre S_2 calc-silicate (?diopside) veins and some post S_2 quartz veining.
L	5	6	4	0	6	5	1	5	12	Interlaminated dark grey graphitic chlorite phyllite, light grey Ms-Ch-quartzite and light greenish grey Qtz +?actin. calc-silicate. More graphitic and chloritic layers than

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Code	From		To		Unit		Code		Description		
	10	14	16	20	22	23	25	27			
									unit above. C-S layers contain minor Po. A few post S ₂ quartz veins up to 1 foot thick contain a hard, light green mineral (?diopside) and a little Po. Traces of Cp on S ₂ surfaces in the phyllite.		
L	6	5	1	5	6	9	4	5	1	3	Interlaminated Mu-Ch-quartzite, dark grey graphitic chlorite phyllite and light greenish grey quartz ?actin. (and/or chlorite) calc-silicate (resembles 497-518 and 553-564). Some minor variations in lithology depend upon relative proportions of the 3 rock-types. In this unit, the calc-silicate layers contain up to 25% Po with traces of Py. Po seems to be replacing Py, or vice-versa. Stringers and lenses of post-S ₂ quartz contain a hard, light green mineral (?diopside) and a soft, light green mineral (?chlorite) plus minor calcite, minor Py and traces of Sph and Po. Quartz-rich, non-calcareous.
L	6	9	4	5	7	2	5	0	1	4	Interlaminated black graphite-Ms-Ch phyllite, light grey qtz-Ms-Chl-phyllite and light greenish grey calc-silicate. Graphitic-rich unit. Up to 50% Po in C-S layers. Abundant post S ₂ quartz veins containing the soft, light green mineral, minor calcite and Ms, minor of Po, Py and traces of Galena. One lens contains calcite and a little dark brown mineral (?siderite). At 701-709', several thin post, S ₂ Po veins with trace of Cp.
L	7	2	5	0	7	3	8	3	1	5	Zone of sulphide replacement. Lithology similar to 651.5 to 694.5. Quartz rich, non-calcareous, not much graphite. S ₂ very poorly developed. (a) 725.0 - 726.0 - Post S ₂ veins up to an inch thick, apparently injected parallel to post S ₂ fractures. (b) 727.0 - 728.3 - Calc-silicate bands contain Po, intervening quartzitic layers contain Py with a trace of Po, apparently injection or replacement along post S ₂ fractures. The sulphide content of

Code	From		To		Unit		Code		Description
	10	14	16	20	22	23	25	27	
									both types of layer increases downwards from approx. 10% to approx. 90% over this interval.
									(c) 729.5 - 731.4 - Massive sulphides (100% sulphide). Mostly Po with traces of Sph and Cp, with some of the soft, light green mineral.
									(d) At 732.5 - Trace of Cp in quartz-chlorite vein.
									(e) 733.5 - 738.3 - Massive sulphides (approx. 75% sulphide) - apparently replacement. 733.5 to 734.8 mostly Po with trace of Py and Cp. 734.8 to 738.3 mostly Py with traces of Po, Cp, Ga, Bornite and Sph., with large blobs of Magnetite.
L	7,3,8	3	7,5,7	0	1,6				Interlaminated light grey quartzite and dark grey graphitic chlorite phyllite, with minor light green quartz +?epidote +?actinolite calc-silicate bands. From 747 to 757 - abundant veinlets of quartz + feldspar, containing a trace of calcite.
L	7,5,7	0	7,6,7	0	1,7				Zone of brecciated graphite-rich chlorite phyllite with thin interbands of quartzite; laced with veinlets of quartz, feldspar, calcite, chlorite.
L	7,6,7	0	7,6,9	0	1,8				Interlaminated dark grey calcareous phyllite and black graphitic phyllite.
L	7,6,9	0	8,0,9	0	1,9				Zone of fractured and brecciated light green calc-silicate with interlaminations of light greenish grey chlorite phyllite. Traces of Po in little pockets. Abundant quartz vein injection containing minor pale green chlorite and traces of Po. A couple of veinlets of Po in the phyllite. From 778 - 779 is a band of light grey mud. cont. angular fragments of quartzose phyllite - could this be a fault breccia? Core all broken up for several feet either side of breccia. From 800-807 - considerable quartz vein injection.

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Code	From		To		Unit		Code	Description			
	10	14	16	20	22	23			25	27	
L	8	0	9	0	8	2	0	Interlaminated pale greenish grey calc-silicate (30-50%), medium green quartzose muscovite-chlorite-phyllite (30-50%), and dark green non-graphitic chlorite phyllite partings (up to 20%). Some of the calc-silicate bands contain Py or Po - mostly they contain a few percent sulphides, but some are up to 50%. Abundant veinlets of quartz + calcite. A few veins of quartz injection, up to 18" long, containing quite a lot of pale green chlorite and traces of pyrite and/or ??Marcasite - also present on some late fracture surfaces. Trace of Cp at 883.5.			
L	8	8	3	8	8	9	8	5	2	1	Zone of abundant sulphides. Host rock is interlaminated light grey quartz-muscovite-chlorite phyllite and dark grey graphitic chlorite phyllite, with minor calc-silicate bands.
											883.8 - 895.5 - Sulphide mostly Po with trace of Cp - nearly all within quartzose bands (forms 0 to 75% of some bands).
											895.5 - 896.3 - Sulphides consist of mixture of Po and Py with abundant magnetite, along with a pale buff-colored soft mineral (?barite). Sulphides + magnetite replace whole rock (80%), not just bands.
											896.3 - 897.3 - Same as 883.8 - 895.5. Up to 40% sulphides.
											897.3 - 898.0 - Same mineralogy as 895.5 - 896.3, but with considerable brecciation and only approx. 70% sulphides + magnetite.
											898.0 - 898.5 - Same as 883.8 - 895.5.
											In this zone, most of the sulphides follow compositional layering - it looks as though sulphide emplacement here may be pre S ₂ .
L	8	9	8	5	9	2	4	0	2	2	Light grey, muscovite-bearing quartzite with interlamina-tions of dark grey graphitic chlorite-muscovite phyllite. Sulphides present in some quartzose bands, mostly Po with

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Code	From	To	Unit	Code	Description
	10 14 16 20	22 23 25 27			
					traces of Cp - present from trace to near 100% of some bands - overall perhaps 10% of rock. Also present are a few thin pale-green calc-silicate bands. Minor post S ₂ quartz veining containing mid-green chlorite and minor Po.
L	9,2,4 0	9,3,0 0	2,3		Interlaminated light grey muscovite quartzite and black graphitic muscovite-chlorite phyllite, locally with pale green calc-silicate bands. Minor Po in calc-silicate bands and some quartzite bands. Abundant late chlorite injection.
L	9,3,0 0	9,3,4 0	2,4		Very light grey, fairly massive muscovite-bearing quartzite with interlamination of white muscovite phyllite, locally containing minor graphite and/or chlorite. Locally contains thin pale green calc-silicate interbands.
L	9,3,4 0	9,4,2 5	2,5		Zone of abundant sulphides. Host rock same as 930.0 - 934.0. Sulphides up to 100% of some bands - up to about 50% of rock. Most is Po with traces of Cp at intervals. Quartzite is slightly calcareous locally.
					934.0 - 935.1 - Sulphide mostly Po with traces of Cp and Ga. Rock about 25% sulphide.
					935.1 - 936.5 - Sulphide mostly Ga with some Po, possibly also some dark brown Sph., and traces of Py and Cp. Rock about 10% sulphide.
					936.5 - 937.7 - Sulphide entirely Po, accompanied by a soft, pale buff mineral (?barite). Rock about 10% Sul sulph.
					837.7 - 938.2 - Quartzite fairly massive here, full of small vugs containing Po and a brown mineral (?siderite or sphalerite) with traces of Cp and Py. Sulphides about 10% of rock. When I squirt acid on it, the rock turns a pale greenish yellow.
					938.2 - 942.5 - Sulphides mostly Po with trace of Cp. Rock banded, with sulphides from 10 to 70%.

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Code	From		To		Unit	Code	Description		
	10	14	16	20	22	23		25	27
L	94	12	5	94	18	3	216		Zone of brecciation. Interlaminated black graphitic Q-Mu-Ch phyllite and Mu-quartzite, all fractured and brecciated, with injection of quartz and chlorite with minor Po, and (from 942.5 - 944.0) abundant muscovite.
L	94	18	3	95	17	5	217		Zone of abundant sulphides. Interlaminated white to light grey quartzite and medium grey graphitic muscovite phyllite. Some slight injection of quartz + chlorite. Sulphides seem to be a mixture of Po and Py, with traces of Cp. Sulphides form up to 100% of some layers, about 25% of rock as a whole.
L	95	17	5	97	10	0	218		Fairly massive white to light grey quartzite with light grey muscovite phyllite partings, locally slightly chloritic. Some slight brecciation with injection of quartz with minor Po, Py or ?barite, and traces of Cp. A few layers contain 10 - 50% Po. At 963.6 - another little patch which turns yellow with acid.
L	97	10	0	97	17	0	219		Very light grey quartzite with partings of dark grey muscovite phyllite with minor chlorite, locally black and graphitic. Up to 20% Po + Py in some layers. A few thin post S ₂ veinlets of Py.
L	97	17	0	98	15	0	310		Interlaminated light grey quartz - muscovite - phyllite and dark grey muscovite - chlorite, locally black and graphitic. Some quartzose bands contain up to 20% Po, but these are fairly rare. A few thin post S ₂ veinlets of Py, and a few thin veinlets of calcite.
L	98	15	0	100	15	0	311		Very light grey to medium grey quartzite, fairly massive, with partings of medium grey muscovite phyllite, locally dark grey and graphitic. Up to 50% Po in some bands, but these are quite rare. Core slightly fractured and brecciated in places. Thoroughly laced with veinlets of calcite along fractures, and a few veinlets of quartz.

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Code	From				To				Unit	Code	Description
	10	14	16	20	22	23	25	27			
L	1,0,1,5	0	1,0,2,9	8	3,2						Interbanded light grey quartzite and medium to dark grey graphitic muscovite phyllite, locally black graphite - muscovite - phyllite. Laced with veinlets of quartz, some containing minor calcite. A few random subhedral crystals of Po up to 1/3" across.
L	1,0,2,9	8	1,0,3,2	0	3,3						Diorite sill. Mottled appearance - white quartz, pale yellow and grey feldspar, some biotite or black pyroxene. Weakly foliated, apparently //S ₂ , contains a couple of subhedral Po crystals 1/4" in diameter.
L	1,0,3,2	0	1,0,4,1	5	3,4						Same as 1015.5 - 1029.8
L	1,0,4,1	5	1,0,9,8	5	3,5						Massive light to medium grey muscovite - bearing quartzite with partings of dark grey muscovite phyllite containing minor chlorite. A few veinlets of quartz, and a few of calcite, along fractures. Traces of Po as blobs at widely spaced intervals.
L	1,0,9,8	5	1,1,1,8	0	3,6						Same as 1015.5 - 1029.8, but core all broken up - some fracturing and brecciation.
L	1,1,1,8	0	1,1,8,5	0	3,7						Interlaminated creamy white quartz and feldspar rock, locally containing minor calcite, epidote and actinolite, light to medium grey muscovite-bearing quartzite, and dark grey muscovite phyllite with minor chlorite, locally with abundant chlorite. A few thin veinlets of calcite and of quartz along post S ₂ fractures. Late epidote injection along a steep-dipping fracture at 1167.5. Quartz-rich, graphite-poor, non-calcareous unit.
L	1,1,8,5	0	1,2,5,8	0	3,8						Interbanded creamy white quartz - feldspar - calcite calc-silicate, locally containing minor epidote and/or actinolite, light to medium grey muscovite-bearing quartzite, and dark greenish grey chlorite - muscovite

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Core Code	From				To				Unit	Code	Description		
	10	14	18	20	22	23	25	27					
											phyllite, locally dark grey and graphitic. Abundant veinlets of quartz, calcite, or quartz + calcite, some of epidote, and some of chlorite. A few small subhedral crystals of Py or Po at widely spaced intervals. Quartz-rich, graphite poor, calcareous unit.		
											Between 1207.5 and 1214.5, the phyllite is particularly graphitic.		
											Between 1212.5 and 1220.5, much quartz vein injection, containing some chlorite, epidote and actinolite.		
L	1	2	5	8	0	1	2	7	4	0	3	9	Interlaminated light grey silty limestone and light grey-green muscovite-chlorite phyllite, locally with interbands of dark grey graphite-chlorite phyllite.
L	1	2	7	4	0	1	3	3	7	0	4	0	Interlaminated dark grey graphitic muscovite phyllite, light grey muscovite-quartzite, and creamy white calc-silicate containing minor calcite, locally abundant calcite. Minor quartz vein injection, and abundant veinlets of quartz along fractures. A few scattered crystals and blobs of Py.
L	1	3	3	7	0	1	3	6	5	5	4	1	Interlaminated dark grey graphitic muscovite phyllite, light grey muscovite-quartzite, and creamy white calc-silicate, locally containing minor calcite. Some calcite veinlets along fractures. A few scattered crystals and blobs of Py.
L	1	3	6	5	5	1	3	6	9	0	4	2	Black graphite phyllite, with interlaminations of pale green muscovite - chlorite phyllite, light grey muscovite - quartzite, and pale greenish grey actinolite-bearing calc-silicate containing traces of Py. Abundant quartz - calcite - actinolite vein injection. Phyllite contains small blobs of Py and Po.

Code	From	To	Unit	Code	Description
	10 14 16 20 22 23 25 27				
L	1,3,6,9 0	1,3,7,2 0	4,3		Pale greenish-grey, very fine grained quartz-rich rock, with only a slight hint of foliation. Probably a tuffaceous quartzite (but could possibly be massive calc-silicate). Contains small blobs of Py.
L	1,3,7,2 0	1,3,9,5 0	4,4		Interlaminated light greenish grey muscovite - chlorite phyllite and dark greenish grey chlorite phyllite, locally graphitic. Also contains a few thin bands of light greenish grey quartz - feldspar - actinolite calc-silicate and a few thin bands of light grey quartzite. At 1385 - a 6" band consisting principally of actinolite + calcite - greenstone? (or vein). Much post S ₂ injection of quartz with pale green chlorite, also a few thin post S ₁ , pre S ₂ quartz veins.
L	1,3,9,5 0	1,3,9,9 7	4,5		Interbanded medium grey graphitic chlorite phyllite, pale yellowish green quartz + feldspar + epidote + minor calcite calc-silicate, and light grey quartzite. A few blobs of Po and Cp.
L	1,3,9,9 7	1,4,0,3 5	4,6		Interlaminated medium grey graphitic chlorite phyllite, black graphite phyllite, pale yellowish green quartz + feldspar + epidote + minor calcite calc-silicate, and light grey quartzite. Minor late veining of quartz, calcite and epidote in various proportions, containing minor Py and traces of Cp and Ga. A few crystals and blobs of Po.
L	1,4,0,3 5	1,4,2,2 0	4,7		Same as 1395,0 - 1399.7.
L	1,4,2,2 0	1,4,2,4 0	4,8		Banded dark green and light yellowish green rock. Could be tuffaceous quartzite, or calc-silicate with bands of epidote-rich and actinolite-rich rock.

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Code	From				To				Unit		Code	Description	
	10	14	16	20	22	23	25	27					
L	1	4	2	4	0	1	4	3	0	5	4	9	Interlaminated medium grey, muscovite - chlorite phyllite, black graphite phyllite, and light grey quartzite. A few veinlets of quartz. Scattered crystals of Po.
L	1	4	3	0	5	1	4	3	2	2	5	0	Similar to 1422.0 - 1424.0, but with interbands of soft, brownish green phyllite. Contains a couple of ragged blobs of Po surrounded by a soft black mineral. A few veinlets of epidote and quartz.
L	1	4	3	2	2	1	5	1	4	5	5	1	Interlaminated dark greenish grey chlorite phyllite, locally black and graphitic, light grey-green muscovite chlorite phyllite, and light grey quartzite. A few late quartz veins containing minor chlorite. A few blobs and crystals of Po and Py.
L	1	5	1	4	5	1	5	3	9	0	5	2	Banded rock - consists of alternating bands from several inches to several feet of rocks (A) and (B): (A) is fairly massive, banded green rock (similar to 1422.0 - 1424.0) - probably tuffaceous quartzite, but possibly calc-silicate. (B) Interlaminated dark greenish grey chlorite phyllite, locally black and graphitic, light grey-green muscovite chlorite phyllite, and light grey quartzite (similar to 1432.2 - 1514.5). The phyllite bands contain fairly abundant large crystals and blobs of Po, and a few large blobs of intergrown Py and Po.
L	1	5	3	9	0	1	5	4	5	0	5	3	Interlaminated dark grey, slightly graphitic chlorite phyllite, pale yellowish green calc-silicate, locally containing minor calcite, and light grey quartzite. (Resembles 1395.0 - 1399.7 and 1403.5 - 1422.0).
L	1	5	4	5	0	1	5	5	6	0	5	4	Same as 1514.5 - 1539.0.

Code	From		To		Feature		Sym	S ₁ Dip Direct.		S ₂ Dip Direct.		Description
	10	14	16	20	22	24		26	28	32	34	
												NOTES:
												Fold Symmetry Working West.
												Dip = angle between S and core axis (CA)
												CL = crenulation lineation.
												KB = kink-bands.
												WL = wrinkle lineation.
												CBL = colour banding lineation.
												S ₁ //S ₂ = horizontal.
S			1,2	0				9,0	0,0,0	9,0	0,0,0	WL on S ₂ , cut by KB N WL KB
S			3,1	5				7,5	0,0,0	7,5	0,0,0	S ₁ //S ₂
S			5,3	0						7,5	0,0,0	S ₁ completely folded - very steeply dipping.
S			6,3	0				7,0	0,0,0	7,0	0,0,0	S ₁ //S ₂
S			8,1	0				2,0	1,8,0	7,0	0,0,0	
S			9,4	5						6,5	0,0,0	
	1,0,0	0	1,0,7	0								Zone of intense folding (D ₂ ?). S ₁ strongly deformed, with injection of much quartz-calcite-calc-silicate material which obliterates S ₁ . S ₂ only well-developed over short intervals.
S			1,1,0	0				8,5	0,0,0	8,5	0,0,0	S ₁ //S ₂ . Post S ₁ pre S ₂ calc-silicate vein folded by F ₂ . S ₂ contains WL which is cut by KB. N WL KB

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Code	From			To			Feature	E S	S ₁		S ₂		Description	
	10	14	16	20	22	24			26	28	32	34		38
S							0		0	10	7	10	S ₁ vertical, folded by F ₂ with excellent development of S ₂ cren. fol. Post S ₁ pre S ₂ calc-silicate veins contain traces of Po.	
S							0		8	15	7	15		
S							0		7	10	7	10	S ₁ //S ₂ .	
S							0	Z	6	10	8	10	CL on S ₂ (S ₁ -S ₂ intsn.) N	
S							0	E			8	15	SL on S ₂ . N	
S							0		7	10	8	15	CL on S ₂ (S ₁ -S ₂ intsn.), cut by KB.	
S							0		3	6	15	8	15	
S							7		6	15	8	15	WL on S ₂ , cut by KB. N	
S							0	3	0	10	8	15	S ₁ essentially vertical, complexly folded by F ₂ crenulations.	
S							0		8	10	8	15		
S							5	E	7	10	8	10	F ₂ CL on S ₂ cut by WL. N	
S							0		8	10	8	17	CBL (S ₁ -S ₂ intsn.) on S ₂ . N	
S							0	3	4	5	7	15	S ₁ complexly folded - S ₁ dip given is locus of small F ₂ folds.	
S							0	3	1	10	8	10	F ₂ CL with //CBL on S ₂ (S ₁ -S ₂ intsn.). F ₂ CL cut by WL.	

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Code	From				To				Feature	SYE	S ₁		S ₂		Description			
	10	14	16	20	22	24	26	28			32	34	38	Dip		Direct.	Dip	Direct.
S			137	155					Z		24	15	010	10	717	010	10	
S			138	145					Z					615	010	10		S ₁ nearly vertical - strongly folded by F ₂ , S ₂ cut by KB on steeply N-dipping AP APs. (KB-AP) (CA) = 35/000.
S			139	140					S		615	010	10	712	010	10		F ₂ CL on S ₂ . N
S			141	145							710	010	10	815	010	10		WL (S ₁ -S ₂) intsn.) on S ₂ . N
S			141	140					S					810	010	10		
S			142	140										615	010	10		BXA.
S			143	160							910			715	010	10		Post S ₁ - pre S ₂ calc-silicate veins contain minor Po. S ₂ not very strongly developed here - Fissility either S ₁ or S ₂ .
S			144	160					S		715	010	10	815	010	10		Same as 436.0.
S			145	160					S		815	010	10	815	010	10		S ₁ //S ₂ .
S			146	170					S		615	118	10	710	010	10		
S			148	180	0				S		710	118	10	610	010	10		Dominant fissility is S ₁ - S ₂ quite well developed but S ₂ surfaces discontinuous and non-planar - attitude varies $\pm 10^\circ$ over a few inches of core.
																		CL on S ₁ . N
S			149	180	7				S		615	010	10	710	010	10		CL on S ₂ , cut by KB.
S			150	180	5				S		610	118	10	810	010	10		Rock quartz-rich - S ₂ very poor.
S			150	190							815	010	10	815	010	10		S ₁ Sub//S ₂ .

Structural Log DD-130

Code	From				To				Feature			S ₁		S ₂		Description
	10	14	16	20	22	24	26	28	32	34	38	Dip	Direct.	Dip	Direct.	
S			1512	100								710	01010	710	01010	S ₁ sub//S ₂ .
S			1513	40								715	01010	715	01010	S ₁ //S ₂ .
S	1514	40	1514	90				S						615	01010	S ₁ greatly contorted. KB on steep AP's at 553.
S			1515	45				3	810	01010	810	01010	810	01010		S ₁ //S ₂ .
S	1515	70	1515	90												S ₁ greatly contorted.
S			1516	45					615	01010	615	01010	615	01010		S ₁ sub//S ₂ . F ₂ Cl on S ₂ . N
S			1517	50				3	710	11810	810	01010	810	01010		
S			1518	50				2	410	01010	810	01010	810	01010		
S			1519	40				S	010	01010	810	01010	810	01010		S ₁ complexly folded - roughly vertical.
S			1610	50					717	01010	717	01010	717	01010		S ₁ //S ₂ .
S			1611	50				2					715	01010		S ₂ rather irregular - strike appears to be changing slightly downwards. S ₁ very slightly steeper than S ₂ , and brought into parallelism in places. CL and WL on S ₂ .
S	1612	05	1612	45				2					617	01010		Zone of mesoscopic F ₂ folding. In places there is a foliation AP to these folds (?S ₂) which does not cut competent layers. In other places, a foliation parallel to the AP foliation cuts fold limbs - evidently later slip on earlier-formed S ₂ . Pronounced F ₂ CL on S ₂ , cut by WL.

Code	From		To		Feature	E S ₁	S ₁		S ₂		Description
	10	14	16	20			22	24	26	28	
S			163150						80	01010	CBL on S ₂ N S ₁ not well seen.
S			164150		3				77	01010	Mesosopic F ₂ folding - S ₁ contorted. F ₂ CL cut by WL on S ₂ .
S			165180				710	01010	710	01010	S ₁ //S ₂
S			1616185								S ₂ folded by KB on steep AP's. AP CA = 25°.
S			1617195				810	01010	810	01010	S ₂ folded by KB on steep AP's. AP CA = 40°. S ₁ sub//S ₂ .
			1618190								Dominant fissility here is a fracture cleavage (?S ₃) which cuts S ₂ in phyllitic layers but is parallel to lithological banding in competent layers. Some Po injection along S ₃ .
S			1710115		E		715	01010	715	01010	S ₁ sub//S ₂ . Po injection with minor CP on post S ₂ fractures. At 702 - Mesoscopic F ₂ folds. N
S			1711115		Z		713	01010	713	01010	S ₁ //S ₂
S			1712130				910	01010	910	01010	S ₁ //S ₂ - horizontal. S ₂ folded by KB.

Structural Log

DD-130

Logged By: R. P. Hill

Code	From		To		Feature	S ₁ Dip Direct.	S ₂ Dip Direct.		Description	
	10	14	16	20			28	32		34
			1733	0	BIXIA				Zone of brecciation and quartz injection - most structures destroyed.	
S			1743	0		810	01010	810	01010	S ₁ //S ₂
S			1753	0	E			715	01010	S ₁ vertical - changes to //S ₂ 6" above and 6" below.
S	1747	0	1767	0					Zone of brecciation and injection of much quartz, calcite and feldspar along veinlets. Structures destroyed for the greater part of this interval. Core all broken up.	
S			1768	0		515	01010	515	01010	S ₁ //S ₂
	1769	0	1781	0					Zone of fracturing and brecciation - structures destroyed for the greater part of this interval. From 778-779 is a band of light grey mud containing angular fragments of quartzose phyllite - could this be a fault breccia? Core all broken up.	
S			1782	5		715	01010	715	01010	S ₁ //S ₂ . Core all broken up.
S			1791	0		817	01010	817	01010	S ₁ sub//S ₂ .
S			1805	0		740	01010	712	01010	S ₁ a bit contorted.
S			1811	5		515	01010	515	01010	S ₁ sub//S ₂ . WL on S ₂ . N
S			1821	5				812	01010	S ₁ irregular, but steep.
S			1835	0	S			717	01010	S ₁ rather irregular, but shallow.

Structural Log

DD-130

Logged By: R. P. Hill

Code	From		To		Feature		S ₁ Dip Direct.	S ₂ Dip Direct.	Description
	10	14	16	20	22	24			
S			1845	5			E 110 010 10	810 010 10	S ₂ rather irregular.
S			1857	0				715 010 10	S ₁ irregular, but steep.
S			1872	0		S		715 010 10	S ₁ irregular.
S			1882	0		S	815 010 10	815 010 10	S ₂ flat - S ₁ //S ₂
S			1893	0				715 010 10	S ₁ poorly developed. WL on S ₂ .
S			1910	40			710 010 10	710 010 10	S ₁ sub//S ₂ . WL on S ₂ . N
S			1911	40			010 010 10	418 010 10	S ₂ steep here - S ₁ , where visible, is approx. vertical.
S			1922	40			83 010 10	83 010 10	S ₁ sub//S ₂ .
S			1933	40			710 010 10	710 010 10	S ₁ poorly developed, but //S ₂ .
S	1942	5	1948	3					Zone of brecciation and injection over most of this interval. All structures are destroyed or are totally irregular.
			1951	40					S ₂ poorly developed - mesoscopic folds fold S ₁ with development of S ₂ in incompetent layers only. Orientation of S ₂ is somewhat irregular - dips both north and south. CL and WL seen on S ₂ .
S			1965	5				610 010 10	S ₂ poorly developed, S ₁ barely visible.
S			1971	5				710 010 10	S ₂ rather variable, S ₁ hardly visible.

Code	From				To				Feature	S ₁ Dip Direct.	S ₂ Dip Direct.	Description	
	10	14	16	20	22	24	26	28					32
S			91860						010	01010	570	01010	S ₁ poorly defined, but approximately vertical. S ₂ folded by KB and WL.
S			9960						710	01010	70	01010	S ₁ sub//S ₂ , but locally folded by mesoscopic folds.
S			1101060										S ₂ not developed. S ₁ rather irregular.
S			1101160					Z	817	01010	817	01010	S ₁ sub//S ₂ . S ₂ rather variable.
S			1101260					Z	810	01010	810	01010	S ₂ sub//S ₂ . WL on S ₂ . N
S			1101370					Z			810	01010	S ₁ irregular.
S			1101470					3			715	01010	Zone of mesoscopic folding of S ₁ .
S			1101570					S			712	01010	S ₁ folded and irregular. F ₂ FA with/WL on S ₂ .
S			1101670					Z			718	01010	S ₁ complexly folded.
S			1101770						910	01010	715	01010	S ₂ poorly developed. S ₁ sub-horizontal.
S			1101870					Z			512	01010	S ₁ irregular and folded.
S			1101970						712	01010	712	01010	S ₁ sub//S ₂ .
S			1110170						810	01010	810	01010	Core fractured and broken up. S ₁ sub//S ₂ .
S			1111170								712	01010	Core fractured and broken up. S ₂ variable. S ₁ irregular. WL on S ₂
S			1112170					Z	810	01010	810	01010	S ₁ sub//S ₂ .

Code	From				To				Feature	SYM	S ₁		S ₂		Description
	10	14	16	20	22	24	26	28			32	34	38	Dip	
S									Z		710	01010	710	01010	S ₁ sub//S ₂ . WL on S ₂ . N
S									3				715	01010	S ₁ irregular. Meso folds. N
S													817	01010	S ₁ not visible, S ₂ rather poorly developed.
S									Z		617	01010	617	01010	S ₁ sub//S ₂ . F ₂ CL and WL on S ₂ .
S									Z		215	11810	617	01010	S ₁ folded - measurement approximate. CL and WL on S ₂ .
S									S				517	01010	S ₁ folded and irregular.
S									Z		715	01010	715	01010	S ₁ sub//S ₂ .
S									S				712	01010	S ₁ folded and irregular. WL on S ₂ .
S											713	01010	713	01010	S ₁ sub//S ₂ . CL on S ₂ . N
S									Z				617	01010	Meso F ₂ folds - S ₁ irregular.
S									Z				710	01010	S ₁ obscured by folding and shearing along S ₂ .
S									S				517	01010	S ₁ sheared and folded - irregular CL on S ₂ . N
S									S				815	01010	S ₁ folded and irregular. S ₂ rather variable.
S													516	01010	S ₁ contorted by F ₂ . F ₂ CL on S ₂ . N

Structural Log DD-130

Logged By: R. P. Hill

Code	From		To		Feature			S ₁ Dip Direct.		S ₂ Dip Direct.		Description
	10	14	16	20	22	24	26	28	32	34	38	
S			12870				E		62	01010		S ₁ contorted by F ₂ . F ₂ CL on S ₂ . N
S			12890				Z		77	01010		S ₁ contorted by F ₂ , but fairly steep. WL on S ₂ . N
S			13010				33	180	65	01010		
S			13110				E		74	01010		S ₁ contorted by F ₂ . WL on S ₂ .
S			13210				Z	610	01010	610	01010	S ₂ not well developed - rather variable. S ₁ sub//S ₂ .
S			13310				S		67	01010		S ₁ contorted.
S			13405					78	01010	78	01010	S ₁ //S ₂ .
S			13510					72	01010	72	01010	S ₁ //S ₂ . WL on S ₂ . N
S			13610					65	01010	65	01010	S ₁ //S ₂ . Two WL on S ₂ . N
			13710									Massive green rock. S ₂ not well developed - rather variable. S ₁ irregular, and folded by F ₂ .
S			13810				E		75	01010		S ₁ irregular.
S			13900				E	67	01010	67	01010	S ₁ sub//S ₂ .
S			14010				E	010	01010	62	01010	S ₁ folded and irregular, but generally vertical. WL on S ₂ . N
S			14105					75	01010	75	01010	S ₁ //S ₂ . WL on S ₂ . N

Code	From		To		Feature		E S ₁	S ₁		S ₂		Description
	10	14	16	20	22	24		26	28	32	34	
S			14210	0						711	01010	S ₁ folded and contorted. WL//F ₂ axis.
S			14311	0				68	01010	68	01010	S ₁ //S ₂
S			14411	0				79	01010	75	01010	S ₂ rather variable - slightly oblique to S ₁ . WL on S ₂ . N
S			14511	0				72	01010	72	01010	S ₂ slightly curved. S ₁ sub//S ₂ . CL and WL on S ₂ .
S			14615	5				910	01010	76	01010	S ₂ poorly developed - rock breaks with irregular surfaces along S ₁ and S ₂ , leaving very pronounced CL. Two WL's, one //CL. S ₁ approx. horizontal.
S			14720	0						910	01010	S ₂ poorly developed - undulatory, but roughly horizontal. S ₁ also irregular - S ₁ and S ₂ meet at approx. 20° which results in irregular fracture of core, but no pronounced CL.
S			148120	0						710	01010	Core breaks irregularly - S ₁ and S ₂ intersect with small angle, but both rather irregular.
S			149125	5			S			715	01010	S ₂ curved. S ₁ folded and irregular.
S			1510125	5			E	210	11810	710	01010	S ₁ rather irregular due to folding.
S			1511130	0			E			718	01010	S ₁ folded and irregular.
S			152130	0				715	01010	715	01010	S ₁ sub//S ₂

Structural Log

DD-130

Logged By: R. P. Hill

Code	From		To		Feature		S ₁		S ₂		Description	
	10	14	16	20	22	24	26	28	32	34		38
S			115330					710	01010	710	01010	Massive rock - S ₂ poorly developed. S ₁ apparently//S ₂ .
S			115430			Z				717	01010	S ₁ folded and irregular.
S			115530			E				820	01010	S ₁ folded and irregular.
S			115640					45	01010	615	01010	S ₂ poorly developed - S ₁ is dominant structure - BXA
S			115740					010	01010			S ₂ absent - S ₁ prominent - vertical.
S			115840			E		010	01010	810	01010	S ₁ approx. vertical.
S			115940					810	11810	617	01010	Fissility along both S ₁ and S ₂ - S ₂ rather poor.
			1161040									S ₂ absent. Fissility is S ₁ , which is completely folded.
S			1161140					612	01010	612	01010	S ₁ //S ₂
S			1162240					715	01010	813	01010	S ₁ 5 to 10° oblique to S ₂ .
S			1163150							910	01010	S ₂ very poorly developed, but approx. horizontal. S ₁ S ₂ 30°.
			1164150									S ₂ very poorly developed. Fissility is S ₁ , which undulates.
S			1165150					514	01010	715	01010	S ₂ very poorly developed.
S			1166100									S ₂ absent. S ₁ folded and irregular.
S			1167160			Z		62	01010	62	01010	S ₂ extremely well developed. S ₁ sub//S ₂ CL and WL on S ₂ .

CYPRUS ANVIL MINING CORPORATION

DIAMOND DRILL CORE LOG

Hole Number: 76-02

Fabric Orientation Diagram

Project: Swim Lake

Location: Swim Lake

Claim: S.B.

Terr. Plane Co-ordinates: _____ N

_____ E

Grid Co-ordinates: 76E

All symmetry determinations looking
_____ with _____ dipping
_____ with dip azimuth _____.

Total Depth: 213.0 ft.

Purpose: _____

Logged by: R. P. Hill Date(s) Logged: March, 1976

Drilling Contractor: Arctic Diamond Drilling Core: _____ Size _____ From _____ To _____ Collar Cased and Capped: _____

BQ 71.0 213.0

Started: _____ Completed: _____

Downhole Survey:

Depth	Observed Azimuth	True Azimuth	Inclination
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Survey Method: Not surveyed

DIAMOND DRILL CORE LOG

Hole Number: 76-03

Fabric Orientation Diagram

Project: Swim Lake

Location: Swim Lake

Claim: SB

Terr. Plane Co-ordinates: N

E

Grid Co-ordinates: 76E

All symmetry determinations looking with dipping with dip azimuth.

Total Depth: 962'

Purpose:

Logged by: R. P. Hill Date(s) Logged: March-April, 1976

Drilling Contractor: Arctic D. Drilling Core: Size From To Collar Cased and Capped:

BQ 74 206

Started: Completed:

Downhole Survey:

Table with 4 columns: Depth, Observed Azimuth, True Azimuth, Inclination. Multiple rows of blank lines for data entry.

Survey Method: Not surveyed.

Code	From				To				Unit	Code	Description	
	10	14	16	20	22	23	25	27				
L		0	0		7	4	0		1		H ₂ O	
L		7	4	0		2	0	6	0	2	OB	
L		2	0	6	0		2	2	5	0	3	Interlaminated light grey silty limestone, dark grey graphitic chlorite muscovite phyllite and grey-green muscovite chlorite phyllite. Abundant veinlets of calcite, a few of quartz. Fairly abundant large euhedral crystals of Py, and a few smaller crystals of Po.
L		2	2	5	0		2	5	3	5	4	Interlaminated light grey silty limestone and light green or light buff-green muscovite chlorite phyllite, locally dark grey and slightly graphitic. Fairly abundant large euhedral crystals of Py, also locally crystals and blobs of Py strong out along S ₂ foliation and on fracture surfaces. Minor quartz veining cont. pale green chlorite and pyrite circles and blobs.
L		2	5	3	5		3	2	3	0	5	Graphite phyllite, locally with interlamination of dark grey graphitic chlorite phyllite. A few bands a few feet thick containing light grey quartzite, other bands contain light grey silty limestone. Pyrite on some fracture surfaces. A few quartz veins up to 4" thick, containing from trace to approx. 25% pyrite. Core all broken up. Very poor recovery.
L		3	2	3	0		3	3	7	0	6	Interlaminated pale yellowish grey calc-silicate, locally with minor calcites, dark grey graphitic chlorite phyllite and medium grey-green chlorite phyllite. A few small crystals of Po. Very poor recovery.
L		3	3	7	0		3	4	1	0	7	Cave, containing one large crystal of Py.

Code	From				To				Unit				Code	Description
	10	14	16	20	22	23	25	27	22	23	25	27		
L	3	4	1	0	3	4	4	0	1	8				Sludge - mostly graphite and dark grey graphitic chlorite phyllite flakes.
L	3	4	4	0	3	5	6	8	1	9				Interlaminated dark grey graphitic chlorite phyllite, medium greenish grey chlorite phyllite and light grey quartzite.
L	3	5	6	8	3	5	9	0	1	10				Interlaminated light green chlorite phyllite and light yellowish green calc-silicate (Q+feld+actin+calcite).
L	3	5	9	0	3	6	0	0	1	1				Same as 344.0 - 356.8.
L	3	6	0	0	3	6	7	5	1	2				Interlaminated light green and dark green rock - either banded calc-silicate of tuff. Contains minor calcite locally (See 76-01). Locally contains inter laminations of dark grey graphitic chlorite phyllite.
L	3	6	7	5	4	3	2	0	1	3				Interlaminated dark grey graphitic chlorite phyllite, light greenish grey chlorite phyllite and light grey silty limestone. Locally contains bands of light yellowish green calc-silicate. Contains large crystals of Py (fairly abundant) and smaller one of Po (quite rare) and minor quartz veining with some chlorite.
L	4	3	2	0	6	3	8	0	1	4				Interlaminated dark grey-green, locally dark grey and graphitic, chlorite phyllite, light grey-green musc. chlorite phyllite, light grey quartzite and light grey-green calc-silicate. Minor quartz vein injection with some chlorite and trace of Py. Contains abundant large crystals of Py and Po. Contains limestone-greenstone bands (actinolite+chlorite+feldspar+Q) at 527-528.

Code	From		To		Unit		Code		Description
	10	14	16	20	22	23	25	27	
L	6380		7460		15				Interlaminated light green Q+feldspar+actinolite calc-silicate and light grey-green chlorite-muscovite phyllite locally with thin laminations of dark grey-green chlorite muscovite phyllite and light grey quartz-muscovite phyllite. Contains abundant crystals and blobs of Po and Py. A few quartz veins up to 1 ft. thick contain minor chlorite and traces of Po and Py. A few calc-silicate bands contain minor Po. 686.6 - 688.5 - some quartz-rich layers contain 10 to 50% Po (approx. 5% of rock).
L	7460		7590		16				Interlaminated white quartzite, very light grey muscovite phyllite and light grey-green chlorite-muscovite phyllite. Locally contains partings of lustrous black graphitic muscovite phyllite. Contains fairly abundant crystals and blobs of Po and Py. Some quartz-rich layers contain 10 to 50% Po (approx. 5% of total rock). Minor quartz vein injection contains minor chlorite and Po.
L	7590		7665		17				Zone of fairly abundant sulphides. Fairly massive rock - interlaminated white quartzite and light grey muscovite phyllite locally with interlamination of pale green muscovite chlorite phyllite. Seems to be injection or replacement along compositional layering (So); sulphides accompanied by quite a lot of quartz and chlorite, also injection along late fractures. Sulphides form from trace to approx. 75% of some bands - perhaps 10 to 20% of total rock. Mostly Po, locally with minor Py, and traces of Cp, Ga, bornite, also a few blobs magnetite.
L	7665		7760		18				Interlaminated dark grey graphitic chlorite phyllite, locally with black graphite phyllite, light grey-green muscovite-chlorite phyllite and minor light grey muscovite quartzite. Contains a few blobs and stringers of Po and Py locally. Minor quartz vein injection with minor chlorite and Po.

Lithologic Log

DD-130

Code	From			To			Unit	Code	Description					
	10	14	16	20	22	23				25	27			
L	7	7	6	0	7	8	9	0	1	9				Fairly massive light green rock with an agglomeratic appearance - probably volcanoclastic. Fairly large angular fragments of quartz and feldspar, laced with veinlets of chlorite, locally contains partings of light green muscovite, chlorite, phyllite and dark green chlorite phyllite. Contains approx. 10% sulphides - mostly Po with Traces of Cp and Ga.
L	7	8	9	0	8	0	7	5	2	0				Light green quartz-rich rock, locally with interlamina-tions of light green Ms chlorite phyllite. The quartz-rich rock may be calc-silicate, but I think it is more probably a tuffaceous quartzite. Abundant small cubes of Po, also a few large crystals and large irregular blobs of Po.
L	8	0	7	5	8	1	2	0	2	1				Interlaminated dark green chlorite phyllite and light green Ms chlorite phyllite.
L	8	1	2	0	8	2	2	0	2	2				Interlaminated dark green chlorite phyllite, light green Ms chlorite phyllite and light green quartz-rich rock (may be calc-silicate, more probably tuffaceous quartzite) in various proportions. At 814.0 - abundant banded Po with minor Cp. 821.0 - 822.0 - appears to have agglomeratic texture.
L	8	2	2	0	8	5	0	0	2	3				Very pale green chlorite muscovite phyllite, locally with interlamina-tions of dark green chlorite phyllite or light greenish grey tuffaceous quartzite. Quartz veining very prominent - veins and lenses up to 6" thick make up about 30-40% of core. Veins contain minor pale green chlorite and minor pyrrhotite, and traces of Cp. Sulphides possibly approx. 5% of total rock mass.
L	8	5	0	0	8	7	8	5	2	4				Same rock as 822-850 but with relatively minor quartz veining. Throughout this interval, a few quartz-rich

Lithologic Log

Logged By: R. P. Hill

Code	From		To		Unit		Code	Description
	10	14	16	20	22 23	25 27		
								bands and veinlets contain up to 50% sulphides. Mostly Po, with traces of Ga, Sph and Cp and Py. Sulphides possibly approx. 5% of total rock mass.
L	8,7,8	5	8,9,4	5	2,5			Fairly massive, light green quart-rich rock (tuffaceous quartzite?) containing thin interlaminations and bands up to 6" thick of above rock-type. Throughout this interval, a few bands and veinlets contain up to 50% sulphides, mostly Po with traces of Ga, Sph, Cp and Py. Minor quartz veining containing minor Po and traces of Ga. Sulphides possibly approx. 5% of total rock mass.
L	8,9,4	5	9,1,7	5	2,6			Same as 850.0 - 878.5.
L	9,1,7	5	9,2,4	7	2,7			Massive, pale green tuffaceous quartzite with thin inter-laminations of pale green muscovite chlorite phyllite, and locally interlaminations of green chlorite phyllite.
L	9,2,4	7	9,2,5	5	2,8			?Fault breccia. Soft, broken up dark green chlorite muscovite phyllite from 924.7 to 925.2. 925.2 - 925.5 - band of soft, light green mud containing fragments of light green Ms-chlor phyllite and dark green chlorite phyllite.
L	9,2,5	5	9,6,2	0	2,9			Banded rock. Bands from a few inches to several feet thick, of alternating (A) and (B). (A) Massive pale green tuffaceous quartzite with thin interlaminations of pale green muscovite chlorite phyllite and dark green chlorite phyllite. (B) Pale green chlorite muscovite phyllite, locally with interlaminations of dark green chlorite phyllite or light greenish grey tuffaceous quartzite. Minor vein quartz in bands up to 1 ft. thick. This section looks very similar to hole 76-01, from 1530 to 1562.

Structural Log

Logged By: R. P. Hill

Code	From		To		Feature		S ₁ Dip Direct.		S ₂ Dip Direct.		Description	
	10	14	16	20	22	24	26	28	32	34		38
S			121110				Z			610	01010	S ₂ not very well developed. S ₁ folded and irregular, F ₂ CL on S ₂ . N
S			121210					110	11810	612	01010	S ₂ very poor - core fractures irregularly on S ₁ and S ₂ . F ₂ CL on S ₂ . N
S			121310				E			713	01010	S ₂ very poorly developed. S ₁ folded and irregular. F ₂ CL on S ₂ . N
S			121410				Z			710	0010	S ₁ irregular. F ₂ CL on S ₂ .
S			121510					517	01010	517	01010	S ₁ sub//S ₂ .
S			121615					418	01010	418	01010	S ₁ sub//S ₂ .
S			121715					417	01010	417	01010	S ₁ sub//S ₂ .
S			121810							615	01010	S ₁ folded and brecciated - S ₂ very poorly developed. BXA.
			121910				Z					S ₂ not present - S ₁ folded by meso F ₂ .
	131010	0	131214									Core all broken up - cannot measure anything.
S			131214							815	01010	S ₂ rather poor. S ₁ irregular. F ₂ CL on S ₂ . N
	131315		131418									Core all broken up - cannot measure anything.
			131418					617	01010	617	01010	S ₂ very poor - much BXA and injection of quartz - S ₁ sub//S ₂ .

Structural Log

Logged By: R. P. Hill

Cctc	From				To				Feature	F ₂	S ₁		S ₂		Description
	10	14	16	20	22	24	26	28			Dip	Direct.	Dip	Direct.	
S			1358	0			Z			85	01010			S ₂ very poor - S ₁ folded and irregular.	
S			1368	0			S			78	01010			S ₂ very poor - S ₁ folded and irregular.	
S			1379	0						81	01010			S ₂ very poor - S ₁ irregular.	
S			1389	0					55	01010	55	01010		S ₁ sub//S ₂	
S			1401	0					66	01010	66	01010		S ₂ very poor. S ₁ sub//S ₂ . F ₂ CL on S ₂ . N	
S			1411	0						52	01010			S ₂ very poor. S ₁ folded and irregular. BXA	
S			1421	0			E	45	1810	83	01010			S ₂ very poor.	
S			1431	0						75	01010			S ₂ very poor. S ₁ folded and irregular.	
S			1441	0					67	01010	67	01010		S ₂ quite good. S ₁ sub//S ₂ .	
S			1451	0					81	01010	81	01010		S ₁ //S ₂ .	
S			1461	0					67	01010	67	01010		S ₁ //S ₂ .	
S			1471	0			Z	010	01010	74	01010			S ₁ nearly vertical within lithons. F ₂ CL on S ₂ . N	
S			1481	0			E	210	01010	810	01010			S ₁ folded and irregular.	
S			1491	0			E	010	01010	82	01010			S ₁ nearly vertical.	
S			1501	0			Z			74	01010			S ₁ rather irregular.	
S			1511	0					68	01010	68	01010		S ₂ rather poor. S ₁ sub//S ₂ .	

Structural Log

Logged By: R. P. Hill

Core Code	From				To				Feature E S	S ₁		S ₂		Description
	10	14	16	20	22	24	26	28		Dip	Direct.	Dip	Direct.	
S			152	00					810	01010	810	01010	S ₂ quite poor. S ₁ sub//S ₂ .	
S			153	00					76	01010	76	01010	S ₁ sub//S ₂ .	
S			154	40					62	01010	62	01010	S ₁ sub//S ₂ .	
S			155	40					73	01010	73	01010	S ₁ sub//S ₂ .	
S			156	40					79	01010	79	01010	S ₂ rather poor. S ₁ //S ₂ .	
S			157	40			Z				58	01010	S ₁ rather irregular, but steep.	
S			158	50							75	01010	S ₂ rather poor. S ₁ folded and irregular.	
			159	50									S ₂ poorly developed and variable.	
													S ₁ sub//S ₂ .	
S			161	050							66	01010	S ₁ irregular.	
S			161	150					710	11810	718	01010	F ₂ CL on S ₂ . N	
			162	150									S ₂ rather poorly developed and somewhat irregular in orientation. S ₁ is prominent foliation, but cannot orient it.	
S			163	150			Z	310	01010	715	01010		Mesoscopic F ₂ /s. N	
													S ₁ measurement is approximate.	
S			164	150			Z	315	01010	816	01010			
S			165	150					817	01010	817	01010	S ₂ rather poor. S ₁ sub//S ₂ .	
S			166	150							717	01010	S ₁ not seen.	

Structural Log

Logged By: R. P. Hill

Code	From				To				Feature	E S ₁	S ₁		S ₂		Description
	10	14	15	20	22	24	25	28			32	34	38		
S			167	150					610	010	83	010			
S			168	150					240	010	77	010			
S			169	150					75	010	75	010			S ₁ sub//S ₂ . F ₂ CL on S ₂ . N
S			170	170					713	010	713	010			S ₁ //S ₂
S			171	170					716	010	716	010			S ₁ //S ₂
S			172	170				S	717	010	717	010			S ₁ sub//S ₂
S			173	170				S			813	010			S ₁ folded and irregular.
S			174	170				S	615	118	715	010			Rock breaks along post S ₂ fractures which are roughly // to S ₁ .
			175	170											S ₂ very poor, and irregular in orient. S ₁ irregular.
S			176	170					615	118	710	010			F ₂ CL on S ₂ . N
			177	170											Seems to be agglomerate or breccia - neither S ₁ nor S ₂ developed at all.
S			179	120							611	010			S ₂ very poor. S ₁ not really seen - massive green rock.
S			180	120							712	010			S ₂ very poor. S ₁ not seen - massive green rock.
S			181	130				Z			618	010			S ₂ not very well developed. S ₁ not seen.
			182	130											Abundant quartz vein injection - S ₂ very poor. S ₁ folded and irregular.

Structural Log

Code	From				To				Feature	S ₁ Dip Direct.	S ₂ Dip Direct.	Description	
	10	14	16	20	22	24	26	28					32
S			1813	10					77	01010	77	01010	S ₁ //S ₂
S			1841	10					77	01010	68	01010	S ₂ rather poor - rock splits along S ₁ . F ₂ CL on S ₁ . N
S			1851	10					90	01010			S ₂ apparently absent. S ₁ horizontal.
S			1861	10					83	1810	75	01010	S ₂ rather poor - rock splits irregularly along S ₁ or S ₂ .
S			1871	10				S	110	1810	85	01010	S ₂ rather variable.
S			1881	10					90	01010			S ₁ approx. horizontal. S ₂ very poor - variable orient.
S			1891	10							75	01010	Massive green rock - S ₂ very poor, S ₁ not seen. Measurement taken // to thin quartz veins in fractures.
S			1901	10					70	01010	70	01010	S ₁ //S ₂
S			1911	10					40	1810	75	01010	Massive rock - S ₂ very poor.
		1921	05	1923	10								Only 6" of core.
S			1924	05					67	01010	67	01010	S ₂ rather poor. S ₁ //S ₂
S			1935	10							72	01010	S ₁ irregular.
S			1945	10					90	01010			S ₁ undulates gently but approx. horiz. S ₂ apparently not developed, or //S ₁ .
			1955	10									
S			1955	10					76	01010	86	01010	

CYPRUS ANVIL MINING CORPORATION

DIAMOND DRILL CORE LOG

091210

Hole Number: 76-04

Fabric Orientation Diagram

Project: Swim Lake

Location: Swim Lake

Claim: S.B.

Terr. Plane Co-ordinates: N

E

Grid Co-ordinates:

All symmetry determinations looking with dipping with dip azimuth.

Total Depth: 570'

Purpose:

Logged by: R. P. Hill

Date(s) Logged: April, 1976

Drilling Contractor: Arctic Diamond Drill. Core: Size From To Collar Cased and Capped:

BQ 152 570

Started: Completed:

Downhole Survey:

Table with 4 columns: Depth, Observed Azimuth, True Azimuth, Inclination. Multiple rows of blank lines for data entry.

Survey Method: Not surveyed

Lithologic Log

Logged By: _____

Core Code	From		To		Unit		Code		Description	
	10	14	16	20	22 23	25	27			
L	1	5	1	0	1	8	5	0	3	Only 10 ft. of core - all broken up, no marker blocks. Interlaminated light grey limestone and black graphic phyllite.
L	1	8	5	0	2	1	3	0	4	Interlaminated light grey limestone (locally light greenish grey calcareous calc-silicate) and black graphitic chlorite phyllite locally, with a few thin interlamina- tions of light grey quartzite. Contains fairly abundant crystals and blobs of Po, a few of Py. Abundant veinlets of calcite, a few of quartz.
L	2	1	3	0	2	2	5	0	5	Interlaminated medium grey-green chlorite phyllite, locally dark grey and graphitic, light greenish grey calc-silicate, locally with minor calcite and light grey quartzite. A few crystals and blobs of Po and Py. Abundant veinlets of quartz, a few of calcite, a few of light yellowish-buff mineral.
L	2	2	5	0	3	1	1	5	6	Interlaminated dark grey graphitic chlorite phyllite light grey-green chlorite-muscovite phyllite and light grey quartzite, locally with a few bands of light greenish grey calc-silicate. Abundant veinlets and small lenses of vein quartz, some containing minor chlorite and Po. Fairly abundant large crystals and blobs of Po, a few smaller crystals of Py.
L	3	1	1	5	3	7	3	0	7	Interlaminated light grey muscovite phyllite, medium grey-green chlorite muscovite phyllite (locally dark grey & graphitic), pale greenish calc-silicate (quartz + feld + actin.), with minor light grey quartzite. Some of the c-s bands contain sulphide, from a trace to 30% in individual bands. Perhaps 2-3% of total rock, locally 10%. In some bands most is Py with minor Po, in others Py & Po are intergrown. Also fairly abundant crystals and large (Contd.)

Lithologic Log

Logged By: _____

Code	From				To				Unit	Code	Description
	10	14	16	20	22	23	25	27			
											blobs of Po and intergrown Po & Py. Minor quartz and chlorite veining containing traces of Py. From 335-360' - mostly cave with fractured pieces of core
L	3	7	3	0	4	1	5	0	8		Interlaminated light grey quartz-musc. phyllite and dark grey to black graphitic muscovite phyllite, locally with a few light greenish grey calc-silicate bands. From 380 on looks like slate rather than phyllite. Contains a few crystals & blobs of Po, mostly $\lt; 1/5''$ (one is <math>1 2''<="" math="">) across.</math>1>
L	4	1	5	0	4	1	7	0	9		Black graphitic muscovite slate, with thin interbands of light grey quartz-muscovite phyllite.
L	4	1	7	0	4	2	7	5	1,0		Same as 373-415 - slatelike. A few crystals & blobs of Po & Py.
L	4	2	7	5	4	3	0	5	1,1		Dark grey, fairly hard, quartz-muscovite-graphite phyllite with thin interlamination of black graphite-muscovite phyllite & pale greenish grey calc-silicate. Several large crystals of Py.
L	4	3	0	5	4	7	5	0	1,2		Interlaminated light greenish grey muscovite-chlorite phyllite, dark grey graphite-muscovite-chlorite phyllite with locally thin interbands of light grey muscovite quartzite & light greenish grey actinolite-bearing calc-silicate. A few crystals & blobs of Py & Po, some mantled by quartz, some with pressure-shadows. Minor quartz-chlorite injection.
L	4	7	5	0	4	9	0	0	1,3		Interlaminated light green muscovite chlorite phyllite and light grey-green calc-silicate, locally with interlamination of dark grey-green graphitic chlorite muscovite phyllite. A few large crystals and smaller blobs & veinlets of Py and intergrowths of Py & Po.

Structural Log

Code	From				To				Feature	SVE	S ₁		S ₂		Description
	10	14	16	20	22	24	26	28			Dip	Direct.	Dip	Direct.	
S				18	70			E			70	010	0	S ₁ folded and irregular	
S				19	70					71	000	71	000	S ₁ sub// S ₂	
S				20	70			S			80	010	0	S ₁ folded & irregular, but steep S ₂ poorly devel. & somewhat variable.	
S				21	70			E			83	010	0	S ₁ folded & irregular but steep	
S				22	70			E			84	010	0	S ₁ folded & irregular, but overall nearly vertical.	
S				23	70						81	010	0	S ₁ folded & irregular.	
S				24	7						85	010	0	S ₂ rather poor. S ₁ sub//S ₂ .	
S				25	70						80	010	0	S ₂ rather poor S ₁ folded and irregular	
S				26	70			S	77	010	77	010	0	S ₁ sub//S ₂ .	
S				27	70			Z			76	010	0	S ₁ irregular.	
S				28	70			Z	66	010	66	010	0	S ₁ sub//S ₂	
S				29	70				70	010	70	010	0	S ₁ sub//S ₂	
S				30	70				70	010	70	010	0	S ₁ sub//S ₂	
S				31	70				61	010	61	010	0	S ₁ sub//S ₂	
S				32	70						64	010	0	S ₁ irregular	
	33	50	36	00										Mostly cave with broken fragments of core	

Structural Log

Logged By: _____

Code	From				To				Feature	S ₁ Dip Direct.	S ₂ Dip Direct.	Description
	10	14	16	20	22	24	26	28				
S				31630					610 01010	610 01010	S ₁ sub//S ₂	
S				31730					714 01010	714 01010	S ₁ sub//S ₂	
S				31835				Z 65	65 01010	65 01010	S ₁ sub//S ₂ S ₂ folded by KB on vertical A.P.	
S				31990					712 01010	712 01010	S ₁ //S ₂	
S				41110				Z		812 0010	S ₁ irregular	
S				41250					715 01010	715 01010	S ₁ //S ₂	
S				41350					910 01010	910 01010	S ₁ //S ₂ = horiz.	
S				41450				S 8.1	8.1 01010	8.1 01010	S ₁ sub//S ₂	
S				41550					810 01010	810 01010	S ₁ //S ₂ . F ₂ CL on S ₂ .	
S				41650					910 01010	710 01010	S ₂ very poor - fissility is S ₁ , which is a bit irregular but approx. horiz.	
S				41750					815 0010	719 01010		
S				41850					619 01010	619 01010	S ₁ sub//S ₂	
S				41950				Z 610	610 01010	719 01010	S ₂ rather poor.	
S				51050					713 01010	713 01010	S ₁ sub//S ₂	
S				51160				S 8.0	8.0 01010	8.0 01010	S ₁ sub//S ₂	
S				51260				S		615 01010	S ₁ contorted by folding	

CYPRUS ANVIL MINING CORPORATION

DIAMOND DRILL CORE LOG

Hole Number: 76-05

Fabric Orientation Diagram

Project: Swim Lake

Location: Swim Lake

Claim: _____

Terr. Plane Co-ordinates: _____ N

_____ E

Grid Co-ordinates: _____

All symmetry determinations looking
_____ with _____ dipping
_____ with dip azimuth _____.

Total Depth: _____

Purpose: _____

Logged by: R. P. Hill Date(s) Logged: April, 1976

Drilling Contractor: Arctic Diamond Drill. Core: _____ Size _____ From _____ To _____ Collar Cased and Capped: _____

BQ 33 1359

Started: _____ Completed: _____

Downhole Survey:

Depth	Observed Azimuth	True Azimuth	Inclination
<u>200</u>	<u>S60W</u>	<u>273°</u>	<u>2°</u>
<u>400'</u>	<u>S56W</u>	<u>269°</u>	<u>5°</u>
<u>600'</u>	<u>S67W</u>	<u>280°</u>	<u>5°</u>
<u>800'</u>	<u>S55W</u>	<u>268°</u>	<u>5.5°</u>
<u>1000'</u>	<u>S60W</u>	<u>273°</u>	<u>6.5°</u>
<u>1200'</u>	<u>S53W</u>	<u>266°</u>	
_____	_____	_____	_____

Survey Method: Sperry-Sun

Lithologic Log

Logged By: R. P. Hill

Code	From				To				Unit				Code	Description
	10	14	18	20	22	23	25	27	22	23	25	27		
L	3	3	0		2	8	2	0		2				Interlaminated light greenish grey muscovite chlorite phyllite & dark grey graphitic muscovite chlorite phyllite, locally with minor amounts of light grey quartzite & light greenish grey calc-silicate. A few qtz. veins up to 2' thick (core very broken and very poor recovery, top 150 ft.) Top part almost devoid of sulphides (0-147) contains a few thin concordant layers of Py, and fairly abundant large crystals & blobs of Py and a few of Po, also a few quartz-rich bands locally containing up to 70% Po with minor Py. Quartz veins cont. minor Py, and traces of Po. Phyllite becoming slightly more quartz-rich downwards.
L	2	8	2	0	3	0	2	0		3				Interlaminated light greenish grey musc-chlorite phyllite, dark grey graphitic musc. chlorite phyllite, locally black, light greenish grey calc-silicate and light grey quartzite. Many quartzite & c-s bands containing up to ~50% Po and/or Py. Also quite common are veinlets of Po & Py along fractures and crystals & blobs of Po & Py. Sulphide ~5% of rock
L	3	0	2	0	3	3	9	0		4				Light to medium grey quartzite, with interlamination of light greenish grey muscovite chlorite phyllite, dark grey graphitic chlorite phyllite, and light greenish grey calc-silicate. From 315 to 324 the calc-silicate layers contain from a minor to a large proportion of calcite. Some c-s bands contain minor Po & Py, which are also present locally as blobs.
L	3	3	9	0	3	6	1	0		5				Thinly laminated light grey fine grained limestone with interlamination of dark grey graphitic muscovite phyllite and locally light grey quartzite, also a few light grey c/s bands. Small crystals & blobs of Py. quite common. Many tiny veinlets of calcite & quartz.

Lithologic Log

Logged By: _____

Code	From		To		Unit		Code		Description	
	10	14	16	20	22	23	25	27		
L	3	6	1	0	3	8	6	0	6	Thickly banded light grey silty limestone, with thin inter-bands of very light brownish green muscovite chlorite phyllite and light grey sandstone. This rock does not really resemble anything in Holes 1-4
L	3	8	6	0	5	0	9	0	7	Interbanded light grey silty limestone, light grey-green muscovite chlorite phyllite, dark grey graphitic chlorite phyllite, and light grey quartzite. Locally partings of graphite. A few of the silty limestone & sandstone qtz. bands contain abundant pyrite.
L	5	0	9	0	5	3	1	0	8	Light grey muscovite bearing quartzite with interlaminations dark grey graphitic muscovite phyllite and light greenish-grey to pale yellowish grey calc-silicate. Some calc-silicate bands contain abundant Py. Much quartz vein injection - veins up to 2 ft. thick, also abundant veinlets of calcite, quartz and a pale yellow mineral. A few large blobs of Py & Po.
L	5	3	1	0	5	6	7	0	9	Light grey quartzite, with interbands of light green muscovite chlorite phyllite, locally black and graphitic, and creamy white or light greenish grey calc-silicate. Fairly abundant veinlets of quartz, calcite & the yellowish mineral. Some of the c/s layers contain minor pyrite, which is also present as small blobs and tiny crystals.
L	5	6	7	0	6	9	6	0	10	Light to dark grey limestone, with interlaminations and thicker bands of dark grey graphitic muscovite phyllite, also a few bands of light creamy white or greenish grey calcareous calc-silicate and light grey quartzite. Laced with veinlets of quartz & calcite, some c-s bands contain minor Py, also a few large crystals & blobs of Py present. Also a few thicker veins of quartz containing large blobs of Py or Po.

Lithologic Log

Logged By: _____

Code	From			To			Unit	Code	Description		
	10	14	18	20	22	23				25	27
L	6	9	6	0	7	6	3	5	1	1	Interlaminated light grey quartz-muscovite phyllite, dark grey to black graphitic muscovite phyllite and light greenish grey actinolite calc-silicate, locally calcareous. Local interbands of black graphite phyllite. A few calc-silicate bands contain traces of Py or Po. Abundant veinlets of calcite, also thin quartz veins.
L	7	6	3	5	7	6	9	0	1	2	White to light grey Ms-bearing quartzite with thin inter-laminations of light to medium grey graphitic muscovite phyllite, contains about 10% Po.
L	7	6	9	0	7	7	8	0	1	3	Only 2 ft. of broken up core - mostly dark grey muscovite quartzite, containing blobs of Po and Mag.
L	7	7	8	0	8	9	3	0	1	4	Variety of rock types - predom. interlaminations light grey quartz muscovite phyllite and dark grey graphitic muscovite phyllite, locally with abundant interbands of light grey quartzite, locally with abundant light greenish grey or cream coloured calc-silicate containing abundant Po. Fairly abundant quartz veins containing large blobs of Po. Abundant large crystals and blobs of Po. A few bands a couple of inches wide contain dark grey incipient "spots". Also a couple of bands of banded green "tuffaceous quartzite".
L	8	9	3	0	9	0	9	0	1	5	Core soft and broken up - apparently mostly interlaminated light grey quartz muscovite phyllite and dark grey to black graphitic muscovite phyllite.
L	9	0	9	0	9	3	7	0	1	6	Fairly hard, quartz-rich rock - interlaminated light to medium grey quartzite, dark grey graphitic muscovite phyllite, and medium green calc-silicate contains abundant large crystals and blobs of Py and Po, also Py along late fractures. Fairly abundant quartz veining.

Lithologic Log

Logged By: _____

Code	From				To				Unit				Code	Description
	10	14	16	20	22	23	25	27	22	23	25	27		
L	9	3	7	0	9	5	6	5	1	7				Interlaminated light grey quartz-muscovite phyllite and dark grey graphitic muscovite phyllite, locally with interlamination of light grey-green calc-silicate, and locally bands of light grey quartzite containing minor Po.
L	9	5	6	5	9	6	2	5	1	8				Abrupt change from above unit - fairly massive light grey quartzite, in places tinged slightly green suggestive slightly tuffaceous. From 957.6 to 958.6 - band of strange green & white mottled igneous-looking rock consisting principally of calcite and (?) actinolite with minor quartz.
L	9	6	2	5	9	7	9	0	1	9				Another abrupt change - interlam. light grey-green chlorite muscovite phyllite, dark grey graphitic chlorite muscovite phyllite, and creamy white to light green calc-silicate locally containing minor calcite. Also a few bands of light grey quartzite and light grey limestone. A few c-s bands contain 10-30% Po. A few small crystals of Py surrounded by an off-black mineral.
L	9	7	9	0	9	8	7	0	2	0				Band of green & white mottled igneous looking rock similar to 957.6 to 958.6 but principally (?) actinolite & quartz with minor calcite, but containing bands with abundant calcite.
L	9	8	7	0	1	0	1	5	0	2	1			Light green quartz-actinolite calc-silicate with inter-laminations of light grey-green muscovite chlorite phyllite, locally dark grey and graphitic. Abundant crystals & blobs of Po.
L	1	0	1	5	0	1	0	4	1	0	2	2		Interlam. light green quartz-actinolite calc-silicate, light grey-green muscovite chlorite phyllite and dark grey graphitic muscovite chlorite phyllite. Abundant crystals and blobs of Po, and Py along late fracture surfaces. Some quartz veining, cont. a small amount Po and traces of Py.

Lithologic Log

Logged By: _____

Code	From		To		Unit		Code		Description
	10	14	16	20	22	23	25	27	
L	1,0,4,1	0	1,0,8,2	0	2,3				Fairly massive light grey quartzite, with interlam. and thicker bands of light grey muscovite phyllite and dark grey graphitic muscovite phyllite. A few bands up to ½" thick contain up to 80% Po, also some large crystals and blobs of Po, and a few small blobs of Cp. Sulphides ~5% of whole rock
L	1,0,8,2	0	1,1,4,6	0	2,4				Interlaminated light to medium grey quartzite, light grey or greenish grey muscovite chlorite phyllite and dark grey to black graphitic muscovite phyllite. Also some bands of light green c-s or tuffaceous quartzite. Abundant quartz vein material - makes up roughly 30% of core in veins a few inches thick. Fairly abundant crystals & blobs of Po in phyllite. Quartz veins contain large blobs which consist of small blobs of Po surrounded by a soft, dark brownish green to black alteration product.
L	1,1,4,6	0	1,1,6,6	0	2,5				Interlaminated light grey quartz-muscovite phyllite, dark grey graphitic muscovite phyllite, and light yellowish to greenish grey calc-silicate, locally containing minor calcite. Abundant thin veins of quartz containing chlorite, also several veinlets of calcite and (?) epidote. Rare small crystals & blobs of Po.
L	1,1,6,6	0	1,1,9,7	0	2,6				Zone of abundant sulphides. Appear to be intrusion or injection of sulphides along with vein quartz. Only small section of original phyllite present. Quartz contains patches of calcite locally, also veinlets of calcite common in quartz and sulphides. Where original phyllite present, sulphides tend to form as layers // to foliation. Most of the sulphides consist of a mixture of coarse grained pyrite, fine grained pyrrhotite & sphal. locally containing blobs of magnetite. Contains band of relative pure graphite ½" thick at 1167'.

Lithologic Log

Logged By: _____

Code	From		To		Unit		Code	Description
	10	14	16	20	22	23		
L	1,1,7,5	0	1,1,8,3	5	2,7			Interlam. muscovite phyllite, graphitic muscovite phyllite and light grey quartzite, containing traces of Po, Py & Ga, also a few crystals of Po. Sulphides perhaps 2-3%.
L	1,1,8,3	5	1,1,8,6	0	2,8			Zone of abundant sulphides (a) 1183.5-1185.0. Rock types similar to 1175.0-1183.5, but with disseminated, coarse grained sulphide in bands a few inches thick - sulphides mostly Py with minor Po. Sulphides ~25%. (b) 1185.0-1186.0- massive sulphide again. Mostly coarse grained Py with minor Po. Sulphides ~8-10%, remainder vein quartz separated from underlying rock by thin layers of pure graphite.
L	1,1,8,6	0	1,1,9,2	5	2,9			Wierd series of rocks - at top 1186.0-1192.0 interlaminated pale greenish grey muscovite phyllite with minor chlorite, and dark grey graphitic phyllite. Very soft and broken up, and contains veins of quartz and chlorite, and veins and lumps of a fairly hard, vitreous black stuff (?? fused graphite) 1192.0-1192.5 - A band of the hard black stuff which fractures with a silky appearance, containing irregular blobs of a fairly soft, dark green vitreous material (??). (Separated from rocks below by a thin band of soft, pure graphite). Seems to be a breccia - contains some large pyrite crystals.
L	1,1,9,2	5	1,1,9,5	8	3,0			Light grey quartzite containing bands of sulphides - mixture of pyrite & pyrrhotite. Sulphides ~20% of rock.
L	1,1,9,5	8	1,1,9,7	0	3,1			Soft, light grey muscovite phyllite containing brecciated lumps of the mysterious black stuff.
L	1,1,9,7	0	1,2,2,2	0	3,2			Interlaminated light grey quartzite and medium grey muscovite phyllite, locally dark grey and graphitic. Contains fairly abundant blobs and crystals of Po, and a few veinlets of Py.

Structural Log

Core Code	From		To		Feature	E Dip	S ₁ Dip Direct.		S ₂ Dip Direct.		Description
	10	14	16	20			22	24	26	28	
S			1390				S 710	01010	710	01010	S ₁ folded, but sub//S ₂
S			1510				S		71	0100	S ₁ folded & irregular
S			1610				60	2710	75	01010	
S			1710				810	01010	85	01010	S ₂ poorly developed
S	1780		1980								Only 6" core recovered
S			1050				65	01010	65	01010	S ₁ sub//S ₂
S			1150				E 210	01010	55	01010	S ₁ contorted - S ₂ very poor & rather variable
S			1255				S 62	01010	80	01010	
S	11270		11410								Very poor recovery-core fractured & broken
S			1410				45	01010	45	01010	S ₂ very poor - dominant fissility is S ₁ . S ₂ developed sub//S ₁ .
S			1510						710	01010	S ₁ irregular
S			1610				69	01010	69	01010	S ₁ //S ₂
S			1710				810	1810	82	01010	
S			1810				Z 55	01010	72	01010	S ₁ folded
S			1910				Z 55	01010	65	01010	S ₂ very poor
S			2020				73	01010	73	01010	S ₁ sub//S ₂
S			2120				S		70	01010	S ₁ complexly folded, S ₂ rather poor

Structural Log

Logged By: _____

Code	From				To				Feature	F ₂	S ₁ Dip Direct.				S ₂ Dip Direct.				Description
	10	14	16	20	22	24	26	28			29	32	34	38	39	42	44	48	
S			12	23	0					7	2	2	7	0	1	0	1	S ₁ & S ₂ both rather variable	
S			12	33	0					5	6	2	7	0	1	0	1	S ₁ dominant - S ₂ very poor	
S			12	43	0					7	0	1	8	0	1	0	1	S ₁ dominant - S ₂ very poor	
S	12	5	2	0	12	7	7	0										Fold zone - S ₁ is very prominent and folded by mesoscopic F ₂ folds, with or without development of strong S ₂ .	
S			12	53	0							6	4	0	1	0	1	S ₁ rather irregular due to folding S ₂ rather poor, & somewhat variable	
S			12	63	0							7	3	0	1	0	1	S ₁ folded & variable - very strong CL //F ₂ axis on S ₂ .	
S			12	73	0					7	5	1	8	0	1	0	1	S ₂ rather poor - fissility is S ₁ .	
S			12	83	0							7	0	0	1	0	1	S ₁ folded & irregular	
S			12	93	0					7	2	0	1	0	1	0	1	S ₁ sub//S ₂	
S			13	03	0					7	0	1	0	0	1	0	1	S ₁ sub//S ₂	
S			13	13	0							8	5	0	1	0	1	S ₁ folded & irregular S ₂ rather variable	
S			13	23	0					2	0	1	8	0	1	0	1	S ₂ very poor S ₁ folded & rather irregular	
S			13	33	0					5	4	5	1	8	0	1	0	S ₂ rather poor & horizontal. Rock seems to split along late fractures developed part S ₂ .	

Structural Log

Logged By: _____

Code	From				To				Feature	SYE	S ₁		S ₂		Description
	10	14	16	20	22	24	26	28			32	34	30		
S			3,4	30				Z	65	0,9	65	0,0		S ₂ rather poor. Many post S ₂ fractures filled with calcite. S ₂ undulates.	
S			3,5	30					8,5	2,7	8,5	0,0			
S			3,6	30				Z	5,0	9,0	5,0	0,0		Quite a massive rock, but with some brecciation. There is a crude foliation which is probably S ₂ superimposed upon S ₁ .	
S			3,7	30					6,5	1,8	7,0	0,0		Same rock - S ₂ appears to be hardly developed at all. I think this chunk contains F ₁ folds. S ₁ rather variable.	
S			3,8	30							5,7	0,0		S ₂ rather poor, S ₁ rather irregular	
S			3,9	30				Z	2,0	0,0	8,2	0,0		S ₂ rather poor, S ₁ variable	
S			4,0	30							8,2	0,0		S ₁ folded & irregular	
S			4,1	30							9,0	0,0		S ₂ very poor but approx. horiz. S ₁ ^ CA ~50° but folded & irregular	
S			4,2	30				Z	3,0	0,0	8,7	0,0		S ₂ rather poor, also variable	
S			4,3	30					8,0	0,0	8,0	0,0		S ₁ syb//S ₂	
S			4,4	30							7,8	0,0		S ₁ sub//S ₂ . S ₂ rather curved	
S			4,5	30				Z	4,0	0,0	7,1	0,0			
S			4,6	30					0,5	1,8	8,5	0,0		S ₂ very poor - S ₁ folded & irregular, but overall is near vertical.	

Structural Log

Logged By: _____

Code	From		To		Feature	E %	S ₁		S ₂		Description
	10	14	16	20			Dip	Direct.	Dip	Direct.	
	22	24	26	28	32	34	38				
			4730								S ₂ absent
											S ₁ prominent - S ₁ ^ CA N55°
S			4830		E		77 01010	77 01010			S ₁ folded but generally sub//S ₂
											S ₂ poorly developed
S			4930				60 01010	60 01010			S ₁ //S ₂
S			51030								S ₂ very poorly developed and irregular
											S ₁ is prominent but also irregular.
			51140								S ₂ very poorly developed and irregular
											S ₁ contorted by folding
S			5240					60 01010			S ₂ very poor S ₁ brecciated & irregular
S			5340								S ₂ not developed S ₁ folded & irregular
S			5440		E			70 01010			S ₂ very poor S ₁ folded & irregular
											but approx. vertical
S			5540		S			82 01010			S ₂ very poor. S ₁ folded & Irregular
S			5640				60 01010	60 01010			S ₁ sub//S ₂
S			5740				75 01010	86 01010			S ₂ rather poor - fissility is S ₁
S			5840		S			80 01010			S ₁ folded & irregular
	5920		60100								Core all brecciated, fractured & broken up.
S			6010					66 01010			S ₁ sub//S ₂

Structural Log

Logged By: _____

Cust Code	From			To			Feature SYM	S ₁ Dip Direct.		S ₂ Dip Direct.		Description
	10	14	16	20	22	24		26	28	32	34	
S			161	110					74	010	0	S ₁ //S ₂
S			162	110					78	010	0	S ₁ //S ₂
S			163	110				86	180	86	010	
S			164	110								S ₁ folded, S ₂ rather variable
S			165	110					46	010	0	S ₁ //S ₂
S			166	110			Z		810	010	0	S ₁ folded & irregular
S			167	110				74	010	74	010	S ₁ //S ₂
S			168	110			Z	67	010	67	010	S ₁ sub//S ₂
S			169	110				67	010	67	010	S ₁ //S ₂
S			170	110				78	010	78	010	S ₁ //S ₂
S			171	110				78	010	78	010	S ₁ //S ₂
S			172	220				88	010	88	010	S ₂ rather poor, but sub//S ₁
S			173	220					75	010	0	S ₂ rather variable - S ₁ folded & irreg.
			173	60								Band of mud - fault?
S			174	220				72	000	72	010	S ₁ sub//S ₂
S			175	220				78	010	78	010	S ₁ sub//S ₂
S			176	220				810	010	810	010	S ₁ sub//S ₂
S			177	80				87	180	87	010	
			178	80								S ₂ absent - S ₂ very variable

Structural Log

Logged By: _____

Code	From				To				Feature	SYR	S ₁		S ₂		Description
	10	14	16	20	22	24	26	28			Dip	Direct.	Dip	Direct.	
S			79	80						90	000	90	010	S ₁ // S ₂ - both undulate approx. horizontal	
S			80	80			S			74	010			S ₁ folded & irregular	
S			81	80						65	010	65	010	S ₁ // S ₂	
S			82	80			S			70	010			S ₁ folded & irregular	
S			83	80			E			72	010			S ₁ folded & irregular	
S			84	80			E			90	010			S ₂ rather poor & rather irregular S ₁ folded - approx. vertical	
S			85	80						68	010	68	010	S ₂ rather variable S ₁ sub//S ₂	
S			86	80						70	010	70	010	S ₂ //S ₁ - S ₂ rather poor	
S			87	80								70	010	S ₁ rather irregular	
S			88	80						86	010	86	010	S ₁ sub//S ₂	
S			89	80			3					73	010	S ₂ very poorly developed S ₁ irregular	
S			90	80								84	010	S ₁ irregular	
S			91	80						85	010	85	010	S ₁ //S ₂	
S			92	80						70	180	83	010		
S			93	80			S			82	000	82	010	S ₂ rather poor S ₁ sub//S ₂	
S			94	80						70	010	84	010	S ₂ very poor	
			95	80										Neither S ₁ nor S ₂ well seen	

Structural Log

Logged By: _____

Code	From				To				Feature	S ₁ Dip Direct.	S ₂ Dip Direct.	Description
	10	14	16	20	22	24	26	28				
S			9680				Z			88 01010		S ₁ irregular - S ₂ rather poor
S			9780							910 01010		S ₂ horiz. - S ₁ sub//S ₂
			9880									S ₂ absent CA ^ S ₁ ~ 80°
S			9980						76 01010	76 01010		S ₁ sub//S ₂
S			10080						85 01010	85 01010		S ₁ sub//S ₂
S			10180						53 01010	53 01010		
S			10295				S		87 01010	76 01010		S ₂ very poor
S			10395							73 01010		S ₁ irregular
			10500									S ₂ very poorly developed & rather variable. S ₁ irregular because of folding
S			10600				S			810 01010		S ₂ rather poor, S ₁ irregular
S			10700							90 01010		S ₂ horizontal S ₁ ^ S ₂ ~ 16°
S			10800				Z			72 01010		S ₂ very poor S ₁ folded by meso. folds
S			10900							85 01010		S ₂ rather poor, S ₁ not seen
S			11000							78 01010		S ₁ irregular
S			11100				E			83 01010		S ₁ folded & irregular
S			11200						70 01010	70 01010		S ₁ sub//S ₂

09/210

CYPRUS ANVIL MINING CORPORATION

DIAMOND DRILL CORE LOG

Hole Number: SB-79-01

Fabric Orientation Diagram: _____

Project: Anvil

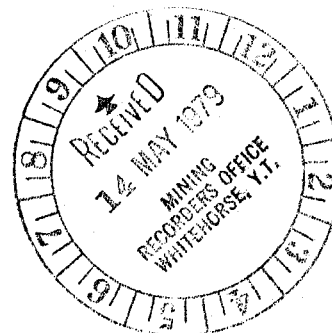
Location: Swim Basin (H-6)

Claim: SB-11

Terr. Plane
Co-ords.: 22 634 400 N

357 700 E

Grid
Co-ords.: _____



Inclination: Vertical

All symmetry determinations looking

_____ with _____ dipping

Elevation: _____

_____ with dip azimuth _____.

Total Depth: 319.4m

Purpose: Test continuation of Sea and SP Deposits.

Logged by: B. V. Hall Date(s) Logged: _____

Drilling Contractor: Arctic Diamond Drilling Core: _____ Size _____ From _____ To _____ Collar Cased and Capped: _____

Core	Size	From	To
<u>BQ</u>	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

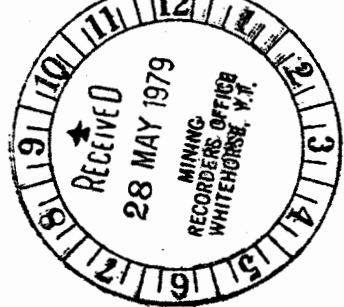
Started: March 27/79 Completed: April 26/79

SUMMARY LOGDDH SB 79-01

<u>Metres</u>			
0.0 - 63.8			Overburden.
63.8 - 119.1	3G0		Interbanded non-calcareous, muscovite-chlorite \pm biotite phyllite/schist, undifferentiated; and graphitic phyllite/schist.
119.1 - 119.6	4L0		Sulphide-bearing siliceous to tuffaceous exhalite.
119.6 - 124.9	4A0		Sulphide-bearing, ribbon-banded, graphitic quartzite.
124.9 - 126.5	4L7		Sulphide-bearing, pyrrhotitic, siliceous to tuffaceous exhalite.
126.5 - 319.4	3G0		Non-calcareous, muscovite-chlorite \pm biotite phyllite/schist, undifferentiated.

END OF HOLE

DD-136



ASSAY RESULTS

DDH 79-SB-01

<u>(Meters) From</u>	<u>To</u>	<u>Interval</u>	<u>Sample No.</u>	<u>AG/AA GMS/MT</u>	<u>Pb%</u>	<u>Zn%</u>	<u>Cu%</u>
119.6	121.6	2	0041	2	.01	.01	.03
121.6	123.6	2	0042	2	Tr.	.01	.04
123.6	124.9	1.3	0043	1	Tr.	.01	.04
124.9	126.5	1.6	0044	1	Tr.	.01	.01

ARCTIC DIAMOND DRILLING LTD.

16^{1/2} Industrial Road
Whitehorse, Yukon Territory Y1A 2V1

Marwell Area - Phone 667-6434

733-2011-4711
Vancouver B.C.

Phone 688-2328x

INVOICE #1276
March 15, 1976



IN ACCOUNT WITH:

Cyprus Anvil Mining Corporation,
330 - 353 Burrard Street,
Vancouver, B.C.
V6C 2S8

Drilling charges for period ended March 15, 1976.

Hole: #7601 x 90° x B0

Installing casing to lake bottom

0 - 3 = 3 feet @ \$1.00 per foot = \$ 3.00

Overburden

3 - 11 = 8 feet @ \$15.50 per foot = 124.00

Core Drilling

11 - 1724 = 1713 ft. @ \$15.50 per ft. = 26,551.50 \$26,678.50

Material Left in Hole

1 only NW shoe #1428637 = \$138.00

1 only 10' length DW casing = 59.50

\$197.50

Plus 10%

19.75

\$ 217.25

\$26,895.75

Hole: #7602 x 90° x B0

Installing Casing to lake bottom

0 - 71 = 71 feet @ \$1.00 per foot = \$ 71.00

Overburden

71 - 213 = 142 feet @ \$15.50 per ft. = 2,201.00 \$ 2,272.00

Materials Left in Hole

1 only NW shoe #428311 = \$179.20

2 only 10' lengths NW casing = 156.00

\$335.20

Plus 10%

33.52

\$ 368.72

\$ 2,640.72

Hole #7603 x 90° x B0

Installing casing to lake bottom

0 - 74 = 74 feet @ \$1.00 per foot = \$ 74.00

Overburden

74 - 200 = 126 feet @ \$15.50 per ft. = 1,953.00

Core Drilling

200 - 789 = 589 ft. @ \$15.50 per ft. = 9,129.50

\$11,156.50

Page 2

Invoice #1841 - Cyprus Antil Mining Corporation - Cont'd

Hole: 27004 x 00° x 10Installing Casing to lake bottom

0 - 123 = 123 feet @ \$1.00 per foot = \$ 123.00

Overburden

123 - 152 = 29 ft. @ \$15.50 per ft. = 449.50

Core Drilling152 - 304 = 152 ft. @ \$15.50 per ft. = 2,356.00

\$ 2,928.50

Meals provided for Company personnel

23 man days @ \$17.50 per day =

\$ 402.50

TOTAL INVOICE

\$44,023.97

ARCTIC DIAMOND DRILLING LTD.

~~1000553201x~~ 184 Industrial Road
Whitehorse, Yukon Territory Y1A 2V1

~~750-x-STOW-WHARRIES-STREET~~
~~Vancouver B.C.~~

Marwell Arca - Phone: ~~668-2449~~ 667-6434

~~Phone: (603) 35236~~

INVOICE #1847

April 15, 1976

IN ACCOUNT WITH:

Cyprus Anvil Mining Corporation,
330 - 353 Burrard Street,
Vancouver, B.C.

Drilling charges for the period April 1 - 15, 1976

Hole: #7608 x 90° x B2

Core Drilling

88 - 632 = 544 feet @ \$15.50 per foot = \$8,432.00

Demobilization

Plowing Road

5 tractor hours @ \$18.00 per hour = \$90.00
5 man hours @ \$14.75 per hour = 73.75 \$ 163.75

Pick up of Anvil Equipment & Core (at Swim Lake)

15 tractor hours @ \$18.00 per hour = \$270.00
15 man hours @ \$14.75 per hour = 221.25 \$ 491.25

Meals Provided for Company Personnel

6 man days @ \$17.50 per day = \$ 105.00

Testing

Hole #7601

8 tests @ 200', 400', 600', 800',
1000', 1200', 1400' and 1600'

Hole #7605

6 tests @ 200', 400', 600', 800', 1000' }
and 1200'

Hole #7607

2 tests @ 200' and 400'

Hole #7608

4 tests @ 200' and 200', 400' and 600'

Total 20 tests less two at no charge per hole
= 12 tests @ \$30.00 per test

\$ 360.00

TOTAL INVOICE

\$9,552.00

ARCTIC DIAMOND DRILLING LTD.

~~7200~~ 184 Industrial Road
Whitehorse, Yukon Territory Y1A 2V1

7380 810 W Hastings Street
Vancouver, B.C.

Marwell Area - Phone 668-2149 667-6434

~~7380 810 W Hastings Street~~

INVOICE #1845
March 31, 1976

IN ACCOUNT WITH:

Cyprus Anvil Mining Corporation,
330 - 353 Burrard Street,
Vancouver, B.C.

Drilling charges for period March 16 - 31, 1976

Hole: #7603 - 90° x BQ

Core Drilling

789 - 962 = 173 feet @ \$15.50 per foot = \$2,681.50

Materials Lost in Hole

21 only 10' lengths BQ rods @ \$40.90 ea. = \$858.90

1 only BQ core barrel complete 516.00

1 only BQ shell #A7YA561 212.18

1 only BQ bit #9710 314.57

\$1,901.65

Plus 10%

190.16

\$2,091.81

Standby

Awaiting engineers decision

15 man hours @ \$14.75 per hour =

221.25

\$4,994.56

Hole: #7604 x 90° x BQ

Core Drilling

304 - 570 = 266 feet @ \$15.50 per ft. = \$4,123.00

Materials Lost in Hole

23 only 10' lengths BQ rods @ \$40.90 ea. = \$940.70

1 only 10' BQ core barrel complete 516.00

1 only BQ shell #A7YA426 202.57

1 only BQ bit #A6L1381 275.97

\$1,935.24

Plus 10%

193.52

\$2,128.76

\$6,251.76

Page 2

Invoice #1845 - Cyprus Avil Mining Corporation - Cont'd

Hole: #7605 x 90° x BQPlowing Road

1 tractor hour @ \$18.00 per hour =	\$18.00		
1 man hour @ \$14.75 per hour =	<u>14.75</u>	\$	32.75

Overburden

0 - 36 = 36 feet @ \$15.50 per foot =	\$558.00		
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Core Drilling

36 - 1359 = 1323 ft. @ \$15.50 per ft. =	<u>20,506.50</u>	<u>\$21,064.50</u>	\$21,097.25
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Hole: #7606 x 90° x BQPlowing Snow

2 tractor hours @ \$18.00 per hour =	\$36.00		
2 man hours @ \$14.75 per hour =	<u>29.50</u>	\$	65.50

Installing casing to lake bottom

0 - 4 = 4 feet @ \$1.00 per foot =			4.00
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Overburden

4 - 27 = 23 feet @ \$15.50 per foot =			356.50
---------------------------------------	--	--	--------

Triconing

27 - 80 = 53 feet @ \$15.50 per foot =			821.50
--	--	--	--------

Materials Lost in Hole

1 only 3 7/8" tricone #3961	\$78.00		
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2 only 10' lengths NW casing @ \$63.00 e. =	126.00		
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1 only Sub 3 7/8" to NW	39.00		
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1 only Sub NW to NQ	37.00		
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1 only sub NQ to BW	<u>31.00</u>		
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	\$311.00		
--	----------	--	--

Plus 10%

	<u>31.10</u>		
--	--------------	--	--

		<u>342.10</u>	
--	--	---------------	--

			\$ 1,589.60
--	--	--	-------------

Hole: #7607 x 90° x BQInstalling casing to lake bottom

0 - 4 = 4 feet @ \$1.00 per foot =			\$ 4.00
------------------------------------	--	--	---------

Overburden

4 - 27 = 23 feet @ \$15.50 per foot =			356.50
---------------------------------------	--	--	--------

Core Drilling

27 - 502 = 475 ft. @ \$15.50 per foot =			7,362.50
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Standby - awaiting tests

2 man hours @ \$14.75 per hour =		<u>29.50</u>	\$ 7,752.50
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Hole: #7608 x 90° x BQMaking & cleaning roads

11 tractor hours @ \$18.00 per hour =	\$198.00		
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11 man hours @ \$14.75 per hour =	<u>162.25</u>	\$360.25	
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Overburden

0 - 37 = 37 feet @ \$15.50 per foot =			\$573.50
---------------------------------------	--	--	----------

Core Drilling

37 - 88 = 51 feet @ \$15.50 per foot =		<u>\$790.50</u>	\$ 1,724.25
--	--	-----------------	-------------

Meals Provided for Company personnel

19 man days @ \$17.50 per day =			\$ 332.50
---------------------------------	--	--	-----------

TOTAL INVOICE

\$43,742.42

W.M. GRANT TRUCKING LIMITED

Box 78 Carcross Yukon Ph. 4251
 Faro Yukon 2788



March 12, 1976

Cyprus Exploration Ltd.,
 Marine Building,
 #330-355 Burrard St.,
 Vancouver, B.C.

Drill Site Access and Preparation

<u>Date</u>	<u>Invoice</u>	<u>Amount</u>
2/11	2951	\$ 480.00
2/12	2952	480.00
2/13	2953	480.00
2/14	2954	707.50
2/15	2955	740.00
2/16	2956	740.00
2/17	2957	370.00
2/18	2958	347.00
		<u>\$4344.50</u>

- check for 347.50

Thank-you.

ACCOUNT		AMOUNT	
1434 - 10		4344.50	
TOTAL		4344.50	
ADD. & EXTENS.	CHG'NG	PAY	PAID
B	Q		D

WILLIAM GRANT TRUCKING LTD.

NO

2951

Box 78

Carcross

Phone 4251

To Cypress Annual Mine Date Feb. 11/76

Address _____ Location _____

Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
8	Cat TD-25 Opening up Swin Lake Road	6000	480 ⁰⁰

480⁰⁰

Operator _____ Customers Signature. Frank Bayard

WILLIAM GRANT TRUCKING LTD.

NO

2952

Box 78

Carcross

Phone 4251

To Cypress Annual Mine Date Feb. 12/76

Address _____ Location _____

Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
8	Cat TD-25 Opening up Swin Lake Road	6000	480 ⁰⁰

Operator _____ Customers Signature. Frank Bayard

WILLIAM GRANT TRUCKING LTD.

Nº 2953

Box 78

Carcross

Phone 4251

To Cypresses Annual Mine Date Feb. 13/76

Address _____ Location _____

Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
8	Cat TD-25 Opening up Swim Lake Road	60 ⁰⁰	480 ⁰⁰

Operator _____

Customers Signature. [Signature]

WILLIAM GRANT TRUCKING LTD.

Nº 2954

Box 78

Carcross

Phone 4251

To Cypresses Annual Mine Date Feb. 14/76

Address _____ Location _____

Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
8	Cat TD-25 Opening up Swim Lake Road	60 ⁰⁰	480 ⁰⁰
7	Grader Grading road	32 ⁵⁰	227 ⁵⁰

Operator _____

Customers Signature. [Signature]

707⁰⁰

WILLIAM GRANT TRUCKING LTD.

NO 2955 Box 78 Carcross Phone 4251
 To Cypress Amal Mine Date Feb. 15/76
 Address _____ Location _____
 Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
8	Cat TD-25 Opening + Grading	60 ⁰⁰	480 ⁰⁰
8	Grader Swim Lake Road	3250	260 ⁰⁰
			740 ⁰⁰

Operator _____ Customers Signature. Frank. Boych

WILLIAM GRANT TRUCKING LTD.

NO 2956 Box 78 Carcross Phone 4251
 To Cypress Amal Mine Date Feb. 16/76
 Address _____ Location _____
 Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
8	Cat TD-25 Opening + Grading	60 ⁰⁰	480 ⁰⁰
8	Grader Swim Lake road	3250	260 ⁰⁰
			740 ⁰⁰

Operator _____ Customers Signature. Frank. Boych

WILLIAM GRANT TRUCKING LTD.

IN# 2957 Box 78 Carcross Phone 4251
 To Cypress Annual Mine Date Feb. 17/76
 Address _____ Location _____
 Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
4	Cat TD-25 Swim Lake	60 ⁰⁰	240 ⁰⁰
4	Grader Road	3250	130 ⁰⁰
			370.00
			2

Operator _____ Customers Signature. Hon K. Luzak

WILLIAM GRANT TRUCKING LTD.

IN# 2958 Box 78 Carcross Phone 4251
 To Cypress Annual Mine Date Feb. 18/76
 Address _____ Location _____
 Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
2	Cat TD-25 Swim Lake	60 ⁰⁰	120 ⁰⁰
7	Grader Road	3250	22750
			34750
			2

Operator _____ Customers Signature. Hon K. Luzak

091210

ARCTIC DIAMOND DRILLING LTD.

184 Industrial Road
 Whitehorse, Yukon Territory Y1A 2V1
 Marwell Area - Phone 667-6434

Phone 668-2328x
 Vancouver, B.C.

INVOICE #1841
 March 15, 1976

IN ACCOUNT WITH:
 Cyprus Anvil Mining Corporation,
 320 - 353 Burrard Street,
 Vancouver, B.C.
 V6C 2G8

Drilling charges for period ended March 15, 1976.



Hole #7501 x 90° x EQ
 Installing casing to lake bottom
 0 - 3 = 3 feet @ \$1.00 per foot = \$ 3.00
 Overburden
 3 - 11 = 8 feet @ \$15.50 per foot = 124.00
 Core Drilling
 11 - 1724 = 1713 ft. @ \$15.50 per ft. = 26,551.50 \$26,678.50
 Material Left in Hole
 1 only BW shoe #142837 = \$138.00
 1 only 10' length BW casing = 59.50
 \$197.50
 Plus 10% 19.75 \$ 217.25 \$26,895.75

Hole #7502 x 90° x EQ
 Installing Casing to lake bottom
 0 - 71 = 71 feet @ \$1.00 per foot = \$ 71.00
 Overburden
 71 - 213 = 142 feet @ \$15.50 per ft. = 2,201.00 \$ 2,272.00
 Materials Left in Hole
 1 only NW shoe #342W311 = \$179.20
 2 only 10' lengths NW casing = 156.00
 \$335.20
 Plus 10% 33.52 \$ 368.72 \$ 2,640.72

Hole #7603 x 90° x EQ
 Installing casing to lake bottom
 0 - 74 = 74 feet @ \$1.00 per foot = \$ 74.00
 Overburden
 74 - 200 = 126 feet @ \$15.50 per ft. = 1,953.00
 Core Drilling
 200 - 789 = 589 ft. @ \$15.50 per ft. = 9,129.50 \$11,156.50

Page 2

Invoice #1841 - Cyprus Lapid Mining Corporation - Cont'd

Holes: "7604 x 00" x 121Inst. taking Core to lake bottom

0 - 123 = 123 feet @ \$1.00 per foot = \$ 123.00

Overburden

123 - 152 = 29 ft. @ \$15.50 per ft. = 449.50

Core Drilling152 - 304 = 152 ft. @ \$15.50 per ft. = 2,356.00 \$ 2,928.50

Meals provided for Company personnel

23 man days @ \$17.50 per day = \$ 402.50

TOTAL INVOICE

\$44,023.97

ARCTIC DIAMOND DRILLING LTD.

~~PO Box 3204~~ 184 Industrial Road
Whitehorse, Yukon Territory Y1A 2V1

~~730 - 550 W. Hastings Street~~
~~Vancouver, B.C.~~

Marwell Area - Phone: ~~668-2449~~ 667-6434

Phone: ~~688-3328~~

INVOICE #1847

April 15, 1976

IN ACCOUNT WITH:

Cyprus Anvil Mining Corporation,
330 - 353 Burrard Street,
Vancouver, B.C.

Drilling charges for the period April 1 - 15, 1976

Hole: #7608 x 90° x B2

Core Drilling

88 - 632 = 544 feet @ \$15.50 per foot = \$8,432.00

Demobilization

Plowing Road

5 tractor hours @ \$18.00 per hour = \$90.00

5 man hours @ \$14.75 per hour = 73.75 \$ 163.75

Pick up of Anvil Equipment & Core (at Swim Lake)

15 tractor hours @ \$18.00 per hour = \$270.00

15 man hours @ \$14.75 per hour = 221.25 \$ 491.25

Meals Provided for Company Personnel

6 man days @ \$17.50 per day = \$ 105.00

Testing

Hole #7601

8 tests @ 200', 400', 600', 800',
1000', 1200', 1400' and 1600'

< Hole #7605

6 tests @ 200', 400', 600', 800', 1000'
and 1200' >

Hole #7607

2 tests @ 200' and 400'

Hole #7608

4 tests @ 200' and 200', 400' and 600'

Total 20 tests less two at no charge per hole

= 12 tests @ \$30.00 per test \$ 360.00

TOTAL INVOICE

\$9,552.00

ARCTIC DIAMOND DRILLING LTD.

~~XXXXXX~~ 184 Industrial Road
Whitehorse, Yukon Territory Y1A 2V1

~~XXXXXX~~ 910 1/2 Hastings Street,
Vancouver, B.C.

Marwell Area - Phone ~~658-2140~~ 667-6434

PHONE ~~688-3328~~

INVOICE #1845

March 31, 1976

IN ACCOUNT WITH:

Cyprus Anvil Mining Corporation,
330 - 353 Burrard Street,
Vancouver, B.C.

Drilling charges for period March 16 - 31, 1976

Hole: #7603 - 90° x BQ

Core Drilling

789 - 962 = 173 feet @ \$15.50 per foot = \$2,681.50

Materials Lost in Hole

21 only 10' lengths BQ rods @ \$40.90 ea. = \$858.90

1 only BQ core barrel complete 516.00

1 only BQ shell #M7YA561 212.18

1 only BQ bit #9710 314.57

\$1,901.65

Plus 10% 190.16 \$2,091.81

Standby

Awaiting engineers decision

15 man hours @ \$14.75 per hour = 221.25

\$4,994.56

Hole: #7604 x 90° x BQ

Core Drilling

304 - 570 = 266 feet @ \$15.50 per ft. = \$4,123.00

Materials Lost in Hole

23 only 10' lengths BQ rods @ \$40.90 ea. = \$940.70

1 only 10' BQ core barrel complete 516.00

1 only BQ shell #M7YA426 202.57

1 only BQ bit #M6L1381 275.97

\$1,935.24

Plus 10% 193.52 \$2,128.76

\$6,251.76

Page 2

Invoice #1845 - Cyprus Avnil Mining Corporation - Cont'd

Hole: #7605 x 90° x BQPlowing Road

1 tractor hour @ \$18.00 per hour =	\$18.00		
1 man hour @ \$14.75 per hour =	<u>14.75</u>	\$	32.75

Overburden

0 - 36 = 36 feet @ \$15.50 per foot =	\$558.00		
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Core Drilling

36 - 1359 = 1323 ft. @ \$15.50 per ft. =	<u>20,506.50</u>	<u>\$21,064.50</u>	\$21,097.25
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Hole: #7606 x 90° x BQPlowing Snow

2 tractor hours @ \$18.00 per hour =	\$36.00		
2 man hours @ \$14.75 per hour =	<u>29.50</u>	\$	65.50

Installing casing to lake Bottom

0 - 4 = 4 feet @ \$1.00 per foot =			4.00
------------------------------------	--	--	------

Overburden

4 - 27 = 23 feet @ \$15.50 per foot =			356.50
---------------------------------------	--	--	--------

Triconing

27 - 60 = 53 feet @ \$15.50 per foot =			821.50
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Materials Lost in Hole

1 only 3 7/8" tricone #3951	\$78.00		
-----------------------------	---------	--	--

2 only 10' lengths NW casing @ \$63.00 e. =	126.00		
---	--------	--	--

1 only Sub 3 7/8" to NW	39.00		
-------------------------	-------	--	--

1 only Sub NW to NQ	37.00		
---------------------	-------	--	--

1 only sub NQ to BW	<u>31.00</u>		
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\$311.00

Plus 10%

31.10342.10

\$ 1,589.60

Hole: #7607 x 90° x BQInstalling casing to lake bottom

0 - 4 = 4 feet @ \$1.00 per foot =			\$ 4.00
------------------------------------	--	--	---------

Overburden

4 - 27 = 23 feet @ \$15.50 per foot =			356.50
---------------------------------------	--	--	--------

Core Drilling

27 - 502 = 475 ft. @ \$15.50 per foot =			7,362.50
---	--	--	----------

Standby - awaiting tests

2 man hours @ \$14.75 per hour =		<u>29.50</u>	\$ 7,752.50
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Hole: #7608 x 90° x BQMaking & cleaning roads

11 tractor hours @ \$18.00 per hour =	\$198.00		
---------------------------------------	----------	--	--

11 man hours @ \$14.75 per hour =	<u>162.25</u>	\$360.25	
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Overburden

0 - 37 = 37 feet @ \$15.50 per foot =			\$573.50
---------------------------------------	--	--	----------

Core Drilling

37 - 63 = 51 feet @ \$15.50 per foot =		<u>\$790.50</u>	\$ 1,724.25
--	--	-----------------	-------------

Meals Provided for Company personnel

19 man days @ \$17.50 per day =			\$ 332.50
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TOTAL INVOICE

\$43,742.42

W.M. GRANT TRUCKING LIMITED

Box 78

Carcross

Yukon

Ph. 4251

Faro

Yukon

2788

March 12, 1976

Cyprus Exploration Ltd.,
Marine Building,
#330-355 Burrard St.,
Vancouver, B.C.

Drill Site Access and Preparation

<u>Date</u>	<u>Invoice</u>	<u>Amount</u>
2/11	2951	\$ 480.00
2/12	2952	480.00
2/13	2953	480.00
2/14	2954	707.50
2/15	2955	740.00
2/16	2956	740.00
2/17	2957	370.00
2/18	2958	347.00
		<u>\$4344.50</u>

- should be 347.50

Thank-you.

AMOUNT		AMOUNT	
1434 - 10		4344.50	
TOTAL		4344.50	
ADDS. & EXTENS.	COPIES	NO. OF COPIES	RECEIVED
B	Q		(D)

WILLIAM GRANT TRUCKING LTD.

NO

2951

Box 78

Carcross

Phone 4251

To Cypress Anvil Mine Date Feb. 11/76

Address _____ Location _____

Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
8	Cat TD-25 Opening up Swin Lake Road	60.00	480 ⁰⁰

480⁰⁰

Operator _____

Customers Signature. Frank Bayard

WILLIAM GRANT TRUCKING LTD.

NO

2952

Box 78

Carcross

Phone 4251

To Cypress Anvil Mine Date Feb. 12/76

Address _____ Location _____

Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
8	Cat TD-25 Opening up Swin Lake Road	60 ⁰⁰	480 ⁰⁰ 7

Operator _____

Customers Signature. Frank Bayard

WILLIAM GRANT TRUCKING LTD.

NO

2953

Box 78

Carcross

Phone 4251

To Cypresses Amiel Mine Date Feb. 13/76

Address _____ Location _____

Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
8	Cat TD-25 Opening up Swim Lake Road	60 ⁰⁰	480 ⁰⁰ 2

Operator _____

Customers Signature. Frank Buzza

WILLIAM GRANT TRUCKING LTD.

NO

2954

Box 78

Carcross

Phone 4251

To Cypresses Amiel Mine Date Feb. 14/76

Address _____ Location _____

Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
8	Cat TD-25 Opening up Swim Lake Road	60 ⁰⁰	480 ⁰⁰
7	Grader Grading road	32 ⁵⁰	227 ⁵⁰

Operator _____

Customers Signature. Frank Buzza
707

WILLIAM GRANT TRUCKING LTD.

DD-130

No

2955

Box 78

Carcross

Phone 4251

To Cypress Ammal Mine Date Feb. 15/76

Address _____ Location _____

Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
8	Cat TD-25 Opening + Grading	60 ⁰⁰	480 ⁰⁰
8	Grader Swim Lake Road	3250	260 ⁰⁰
			740 ⁰⁰

Operator _____ Customers Signature. Frank. Boyal

WILLIAM GRANT TRUCKING LTD.

No

2956

Box 78

Carcross

Phone 4251

To Cypress Ammal Mine Date Feb. 16/76

Address _____ Location _____

Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
8	Cat TD-25 Opening + Grading	60 ⁰⁰	480 ⁰⁰
	Swim Lake road		
8	Grader	3250	260 ⁰⁰
			740 ⁰⁰

Operator _____ Customers Signature. Frank. Boyal

WILLIAM GRANT TRUCKING LTD.

Nº 2957

Box 78

Carcross

Phone 4251

To Cypress Anvil Mine Date Feb. 17/76

Address _____ Location _____

Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
4	Cat TD-25 <i>Swim Lake</i>	60 ⁰⁰	240 ⁰⁰
4	Grader <i>Road</i>	3250	130 ⁰⁰
			370.00
			2

Operator _____ Customers Signature. *Hank Luyck*

WILLIAM GRANT TRUCKING LTD.

Nº 2958

Box 78

Carcross

Phone 4251

To Cypress Anvil Mine Date Feb. 18/76

Address _____ Location _____

Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
2	Cat TD-25 <i>Swim Lake</i>	60 ⁰⁰	120 ⁰⁰
7	Grader <i>Road</i>	3250	2275 ⁰⁰
			34750
			2

Operator _____ Customers Signature. *Hank Luyck*

021210

ARCTIC DIAMOND DRILLING LTD.

104 Industrial Road
Whitehorse, Yukon Territory Y1A 2V1

720-2476
Vancouver, B.C.

Marwell Area - Phone 667-6434

Phone 688-2328x

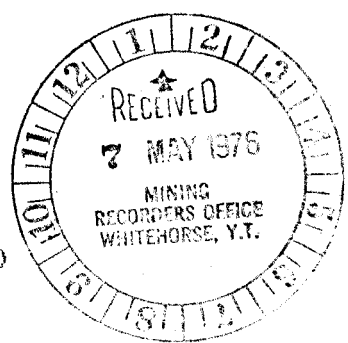
INVOICE #1841
March 15, 1976

IN ACCOUNT WITH:

Cyprus Anvil Mining Corporation,
330 - 333 Burrard Street,
Vancouver, B.C.
V6C 2G8

Drilling charges for period ended March 15, 1976.

Hole: #7601 x 90° x BQ
Installing casing to lake bottom
 0 - 5 = 5 feet @ \$1.00 per foot = \$ 3.00
Overburden
 5 - 11 = 6 feet @ \$15.50 per foot = 124.00
Core Drilling
 11 - 1724 = 1713 ft. @ \$15.50 per ft. = 26,551.50 \$26,678.50
Material Left in Hole
 1 only BW shoe #144837 = \$138.00
 1 only 10' length BW casing = 59.50
 \$197.50
 Plus 10% 19.75 \$ 217.25 \$26,895.75



Hole: #7602 x 90° x BQ
Installing Casing to lake bottom
 0 - 71 = 71 feet @ \$1.00 per foot = \$ 71.00
Overburden
 71 - 213 = 142 feet @ \$15.50 per ft. = 2,201.00 \$ 2,272.00
Materials Left in Hole
 1 only NW shoe #342W311 = \$179.20
 2 only 10' lengths NW casing = 156.00
 \$335.20
 Plus 10% 33.52 \$ 368.72 \$ 2,640.72

Hole #7603 x 90° x BQ
Installing casing to lake bottom
 0 - 74 = 74 feet @ \$1.00 per foot = \$ 74.00
Overburden
 74 - 200 = 126 feet @ \$15.50 per ft. = 1,953.00
Core Drilling
 200 - 789 = 589 ft. @ \$15.50 per ft. = 9,129.50 \$11,156.50

Page 2

Invoice #1841 - Cyprus Anvil Mining Corporation - Cont'd

Hole: 7604 x 90° x 12Installing Casing to lake bottom

0 - 123 = 123 feet @ \$1.00 per foot = \$ 123.00

Overburden

123 - 152 = 29 ft. @ \$15.50 per ft. = 449.50

Core Drilling152 - 504 = 352 ft. @ \$15.50 per ft. = 2,356.00

\$ 2,928.50

Meals provided for Company personnel

23 man days @ \$17.50 per day =

\$ 402.50

TOTAL INVOICE

\$4,023.97

ARCTIC DIAMOND DRILLING LTD.

~~P.O. Box 3204~~ 184 Industrial Road
Whitehorse, Yukon Territory Y1A 2V1

Marwell Area - Phone: ~~667-2449~~ 667-6434

~~750 West Warrington Street~~
Vancouver, B.C.

Phone: ~~688-3528~~

INVOICE #1847

April 15, 1976

IN ACCOUNT WITH:

Cyprus Anvil Mining Corporation,
330 - 353 Burrard Street,
Vancouver, B.C.

Drilling charges for the period April 1 - 15, 1976

Hole: #7608 x 90° x BQ

Core Drilling

88 - 632 = 544 feet @ \$15.50 per foot = \$8,432.00

Demobilization

Plowing Road

5 tractor hours @ \$18.00 per hour = \$90.00
5 man hours @ \$14.75 per hour = 73.75 \$ 163.75

Pick up of Anvil Equipment & Core (at Swim Lake)

15 tractor hours @ \$18.00 per hour = \$270.00
15 man hours @ \$14.75 per hour = 221.25 \$ 491.25

Meals Provided for Company Personnel

6 man days @ \$17.50 per day = \$ 105.00

Testing

Hole #7601

8 tests @ 200', 400', 600', 800',
1000', 1200', 1400' and 1600'

< Hole #7605

6 tests @ 200', 400', 600', 800', 1000' &
and 1200'

Hole #7607

2 tests @ 200' and 400'

Hole #7608

4 tests @ 200' and 200', 400' and 600'

Total 20 tests less two at no charge per hole
= 12 tests @ \$30.00 per test

\$ 360.00

TOTAL INVOICE

\$9,552.00

ARCTIC DIAMOND DRILLING LTD.

~~7200~~ 3204: 184 Industrial Road
Whitehorse, Yukon Territory Y1A 2V1

~~2300~~ 210477 Hastings Street,
Vancouver, B.C.

Marwell Area - Phone 668-2440 667-6434

~~2300~~ 688-2328

INVOICE #1845
March 31, 1976

IN ACCOUNT WITH:

Cyprus Anvil Mining Corporation,
330 - 353 Burrard Street,
Vancouver, B.C.

Drilling charges for period March 16 - 31, 1976

Hole: #7603 - 90° x BQ

Core Drilling

789 - 952 = 173 feet @ \$15.50 per foot = \$2,681.50

Materials Lost in Hole

21 only 10' lengths BQ rods @ \$40.90 ea. = \$858.90

1 only BQ core barrel complete 516.00

1 only BQ shell #A7YA561 212.18

1 only BQ bit #9710 314.57

\$1,901.65

Plus 10% 190.16 \$2,091.81

Standby

Awaiting engineers decision

15 man hours @ \$14.75 per hour = 221.25 \$4,994.56

Hole: #7604 x 90° x BQ

Core Drilling

304 - 570 = 266 feet @ \$15.50 per ft. = \$4,123.00

Materials Lost in Hole

23 only 10' lengths BQ rods @ \$40.90 ea. = \$940.70

1 only 10' BQ core barrel complete 516.00

1 only BQ shell #A7YA426 202.57

1 only BQ bit #M6L1381 275.97

\$1,955.24

Plus 10% 193.52 \$2,128.76 \$6,251.76

Page 2

Invoice #1845 - Cyprus Avil Mining Corporation - Cont'd

Hole: #7605 x 90° x BQPlowing Road

1 tractor hour @ \$18.00 per hour =	\$18.00	
1 man hour @ \$14.75 per hour =	<u>14.75</u>	\$ 32.75

Overburden

0 - 36 = 36 feet @ \$15.50 per foot =	\$558.00	
---------------------------------------	----------	--

Core Drilling

36 - 1359 = 1323 ft. @ \$15.50 per ft. =	<u>20,506.50</u>	<u>\$21,064.50</u>	\$21,097.25
--	------------------	--------------------	-------------

Hole: #7606 x 90° x BQPlowing Snow

2 tractor hours @ \$18.00 per hour =	\$36.00	
2 man hours @ \$14.75 per hour =	<u>29.50</u>	\$ 65.50

Installing casing to lake Bottom

0 - 4 = 4 feet @ \$1.00 per foot =		4.00
------------------------------------	--	------

Overburden

4 - 27 = 23 feet @ \$15.50 per foot =		356.50
---------------------------------------	--	--------

Triconing

27 - 80 = 53 feet @ \$15.50 per foot =		821.50
--	--	--------

Materials Lost in Hole

1 only 3 7/8" tricone #3961	\$78.00	
-----------------------------	---------	--

2 only 10' lengths NW casing @ \$63.00 e. =	126.00	
---	--------	--

1 only Sub 3 7/8" to NW	39.00	
-------------------------	-------	--

1 only Sub NW to NQ	37.00	
---------------------	-------	--

1 only sub NQ to BW	<u>31.00</u>	
---------------------	--------------	--

\$311.00

Plus 10%

31.10342.10

\$ 1,589.60

Hole: #7607 x 90° x BQInstalling casing to lake bottom

0 - 4 = 4 feet @ \$1.00 per foot =		\$ 4.00
------------------------------------	--	---------

Overburden

4 - 27 = 23 feet @ \$15.50 per foot =		356.50
---------------------------------------	--	--------

Core Drilling

27 - 502 = 475 ft. @ \$15.50 per foot =		7,362.50
---	--	----------

Standby - awaiting tests

2 man hours @ \$14.75 per hour =		<u>29.50</u>
----------------------------------	--	--------------

\$ 7,752.50

Hole: #7608 x 90° x BQMaking & cleaning roads

11 tractor hours @ \$18.00 per hour =	\$198.00	
---------------------------------------	----------	--

11 man hours @ \$14.75 per hour =	<u>162.25</u>	\$360.25
-----------------------------------	---------------	----------

Overburden

0 - 37 = 37 feet @ \$15.50 per foot =		\$573.50
---------------------------------------	--	----------

Core Drilling

37 - 83 = 51 feet @ \$15.50 per foot =		<u>\$790.50</u>
--	--	-----------------

\$ 1,724.25

Meals Provided for Company personnel

19 man days @ \$17.50 per day =		\$ 332.50
---------------------------------	--	-----------

TOTAL INVOICE

\$43,742.42

W.M. GRANT TRUCKING LIMITED

Box 78 Carcross Yukon Ph. 4251
 Faro Yukon 2788

March 12, 1976

Cyprus Exploration Ltd.,
 Marine Building,
 #330-355 Burrard St.,
 Vancouver, B.C.

Drill Site Access and Preparation

<u>Date</u>	<u>Invoice</u>	<u>Amount</u>
2/11	2951	\$ 480.00
2/12	2952	480.00
2/13	2953	480.00
2/14	2954	707.50
2/15	2955	740.00
2/16	2956	740.00
2/17	2957	370.00
2/18	2958	347.00
		<u>\$4344.50</u>

- should be 247.50

Thank-you.

AMOUNT	
1434 = 10	4344.50
TOTAL	4344.50
ADDS. & EXTENS.	CLONG
<i>B</i>	<i>Cr</i>
	<i>D</i>

WILLIAM GRANT TRUCKING LTD.

Nº

2951

Box 78

Carcross

Phone 4251

To Cyprus Amal Mine Date Feb. 11/76

Address _____ Location _____

Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
8	Cat TD-25 Opening up Swin Lake Road	6000	480 ⁰⁰

480⁰⁰

Operator _____ Customers Signature. Frank Boyard

WILLIAM GRANT TRUCKING LTD.

Nº

2952

Box 78

Carcross

Phone 4251

To Cyprus Amal Mine Date Feb. 12/76

Address _____ Location _____

Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
8	Cat TD-25 Opening up Swin Lake Road	6000	480 ⁰⁰

480⁰⁰

Operator _____ Customers Signature. Frank Boyard

WILLIAM GRANT TRUCKING LTD.

NO 2953 Box 78 Carcross Phone 4251
 To Cypressus Amal Mine Date Feb. 13/76
 Address _____ Location _____
 Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
8	Cat TD-25 Opening up Swim Lake Road	60 ⁰⁰	480 ⁰⁰ 2

Operator _____ Customers Signature. [Signature]

WILLIAM GRANT TRUCKING LTD.

NO 2954 Box 78 Carcross Phone 4251
 To Cypressus Amal Mine Date Feb. 14/76
 Address _____ Location _____
 Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
8	Cat TD-25 Opening up Swim Lake Road	60 ⁰⁰	480 ⁰⁰
7	Grader Grading road	32 ⁵⁰	227 ⁵⁰

Operator _____ Customers Signature. [Signature]

WILLIAM GRANT TRUCKING LTD.

N^o 2955 Box 78 Carcross Phone 4251

To Cypress Annul Mine Date Feb. 15/76

Address _____ Location _____

Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
8	Cat TD-25 Opening + Grading	60 ⁰⁰	480 ⁰⁰
8	Grader Swim Lake Road	3250	260 ⁰⁰
			740 ⁰⁰

Operator _____ Customers Signature. Frank. Boych

WILLIAM GRANT TRUCKING LTD.

N^o 2956 Box 78 Carcross Phone 4251

To Cypress Annul Mine Date Feb. 16/76

Address _____ Location _____

Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
8	Cat TD-25 Opening + Grading	60 ⁰⁰	480 ⁰⁰
8	Grader Swim Lake road	3250	260 ⁰⁰
			740 ⁰⁰

Operator _____ Customers Signature. Frank. Boych

WILLIAM GRANT TRUCKING LTD.

NO 2957

Box 78

Carcross

Phone 4251

To Cypress Amiel Mine Date Feb. 17/76

Address _____ Location _____

Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
4	Cat TD-25	60 ⁰⁰	240 ⁰⁰
4	Grader	3250	130 ⁰⁰
			<u>370.00</u>
			2

Operator _____

Customers Signature. Frank Luzzo

WILLIAM GRANT TRUCKING LTD.

NO 2958

Box 78

Carcross

Phone 4251

To Cypress Amiel Mine Date Feb. 18/76

Address _____ Location _____

Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
2	Cat TD-25	60 ⁰⁰	120 ⁰⁰
7	Grader	3250	2275 ⁰⁰
			<u>3475.00</u>
			2

Operator _____

Customers Signature. Frank Luzzo

091210

ARCTIC DIAMOND DRILLING LTD.

184 Industrial Road
 Whitehorse, Yukon Territory Y1A 2V1
 Marwell Area - Phone 667-6434

730 - 1107 - Hastings Street
 Vancouver, B.C.
 Phone 682-3322x



INVOICE #1842
 March 15, 1976

IN ACCOUNT WITH:
 Cyprus Anvil Mining Corporation,
 330 - 353 Burrard Street,
 Vancouver, B.C.
 V6C 2C8

Drilling charges for period ended March 15, 1976.

Hole: #7601 x 90° x BQ
Installing casing to lake bottom
 0 - 3 = 3 feet @ \$1.00 per foot = \$ 3.00
Overburden
 3 - 11 = 8 feet @ \$15.50 per foot = 124.00
Core Drilling
 11 - 1724 = 1713 ft. @ \$15.50 per ft. = 26,551.50 \$26,678.50
Material Left in Hole
 1 only BW shoe #1428837 = \$138.00
 1 only 10' length BW casing = 59.50
 \$197.50
 Plus 10% 19.75 \$ 217.25 \$26,895.75

Hole: #7602 x 90° x BQ
Installing Casing to lake bottom
 0 - 71 = 71 feet @ \$1.00 per foot = \$ 71.00
Overburden
 71 - 213 = 142 feet @ \$15.50 per ft. = 2,201.00 \$ 2,272.00
Materials Left in Hole
 1 only NW shoe #3428311 = \$179.20
 2 only 10' lengths NW casing = 156.00
 \$335.20
 Plus 10% 33.52 \$ 368.72 \$ 2,640.72

Hole #7603 x 90° x BQ
Installing casing to lake bottom
 0 - 74 = 74 feet @ \$1.00 per foot = \$ 74.00
Overburden
 74 - 200 = 126 feet @ \$15.50 per ft. = 1,953.00
Core Drilling
 200 - 789 = 589 ft. @ \$15.50 per ft. = 9,129.50 \$11,156.50

ARCTIC DIAMOND DRILLING LTD.

Page 2

Invoice #1841 - Cyprus Anvil Mining Corporation - Cont'd

Hole: #2604 x 90° x 22Installing Casing to lake bottom

0 - 123 = 123 feet @ \$1.00 per foot = \$ 123.00

Overburden

123 - 152 = 29 ft. @ \$15.50 per ft. = 449.50

Core Drilling152 - 304 = 152 ft. @ \$15.50 per ft. = 2,356.00

\$ 2,928.50

Meals provided for Company personnel

23 man days @ \$17.50 per day =

\$ 402.50

TOTAL INVOICE

\$4,023.97

ARCTIC DIAMOND DRILLING LTD.

~~P.O. Box 3204x~~ 184 Industrial Road
Whitehorse, Yukon Territory Y1A 2V1

~~730-7510 W. Hastings Street~~
Vancouver, B.C.

Marwell Area - Phone: ~~668-2440~~ 667-6434

Phone: ~~628-3328~~

INVOICE #1847
April 15, 1976

IN ACCOUNT WITH:

Cyprus Anvil Mining Corporation,
330 - 353 Burrard Street,
Vancouver, B.C.

Drilling charges for the period April 1 - 15, 1976

Hole: #7608 x 90° x B2
Core Drilling
88 - 632 = 544 feet @ \$15.50 per foot = \$8,432.00

Demobilization
Plowing Road
5 tractor hours @ \$18.00 per hour = \$90.00
5 man hours @ \$14.75 per hour = 73.75 \$ 163.75

Pick up of Anvil Equipment & Core (at Swim Lake)
15 tractor hours @ \$18.00 per hour = \$270.00
15 man hours @ \$14.75 per hour = 221.25 \$ 491.25

Meals Provided for Company Personnel
6 man days @ \$17.50 per day = \$ 105.00

Testing
Hole #7601
8 tests @ 200', 400', 600', 800',
1000', 1200', 1400' and 1600'

< Hole #7605
6 tests @ 200', 400', 600', 800', 1000'
and 1200' >

Hole #7607
2 tests @ 200' and 400'

Hole #7608
4 tests @ 200' and 200', 400' and 600'
Total 20 tests less two at no charge per hole
= 12 tests @ \$30.00 per test \$ 360.00

TOTAL INVOICE \$9,552.00

ARCTIC DIAMOND DRILLING LTD.

~~Phone 3204~~ 184 Industrial Road
Whitehorse, Yukon Territory Y1A 2V1

~~730 x 510 W. Hastings Street.~~
~~Vancouver, B.C.~~

Marwell Area - Phone ~~668-2440~~ 667-6434

~~Phone 688-3328~~

INVOICE #1845

March 31, 1976

IN ACCOUNT WITH:

Cyprus Anvil Mining Corporation,
330 - 353 Burrard Street,
Vancouver, B.C.

Drilling charges for period March 16 - 31, 1976

Hole: #7603 - 90° x BQ

Core Drilling

789 - 962 = 173 feet @ \$15.50 per foot = \$2,681.50

Materials Lost in Hole

21 only 10' lengths BQ rods @ \$40.90 ea. = \$858.90

1 only BQ core barrel complete 516.00

1 only BQ shell #M7YA561 212.18

1 only BQ bit #9710 314.57

\$1,901.65

Plus 10%

190.16

\$2,091.81

Standby

Awaiting engineers decision

15 man hours @ \$14.75 per hour =

221.25

\$4,994.56

Hole: #7604 x 90° x BQ

Core Drilling

304 - 570 = 266 feet @ \$15.50 per ft. = \$4,123.00

Materials Lost in Hole

23 only 10' lengths BQ rods @ \$40.90 ea. = \$940.70

1 only 10' BQ core barrel complete 516.00

1 only BQ shell #M7YA426 202.57

1 only BQ bit #M6L1381 275.97

\$1,935.24

Plus 10%

193.52

\$2,128.76

\$6,251.76

...../2

Page 2

Invoice #1845 - Cyprus Anvil Mining Corporation - Cont'd

Hole: #7605 x 90° x BQPlowing Road

1 tractor hour @ \$18.00 per hour =	\$18.00		
1 man hour @ \$14.75 per hour =	14.75	\$	32.75

Overburden

0 - 36 = 36 feet @ \$15.50 per foot =	\$558.00		
---------------------------------------	----------	--	--

Core Drilling

36 - 1359 = 1323 ft. @ \$15.50 per ft. =	20,506.50	\$21,064.50	\$21,097.25
--	-----------	-------------	-------------

Hole: #7606 x 90° x BQPlowing Snow

2 tractor hours @ \$18.00 per hour =	\$36.00		
2 man hours @ \$14.75 per hour =	29.50	\$	65.50

Installing casing to lake bottom

0 - 4 = 4 feet @ \$1.00 per foot =			4.00
------------------------------------	--	--	------

Overburden

4 - 27 = 23 feet @ \$15.50 per foot =			356.50
---------------------------------------	--	--	--------

Triconing

27 - 80 = 53 feet @ \$15.50 per foot =			821.50
--	--	--	--------

Materials Lost in Hole

1 only 3 7/8" tricone #3961	\$78.00		
-----------------------------	---------	--	--

2 only 10' lengths NW casing @ \$63.00 e.=	126.00		
--	--------	--	--

1 only Sub 3 7/8" to NW	39.00		
-------------------------	-------	--	--

1 only Sub NW to NQ	37.00		
---------------------	-------	--	--

1 only sub NQ to BW	31.00		
---------------------	-------	--	--

	\$311.00		
--	----------	--	--

Plus 10%

	31.10		
--	-------	--	--

		342.10	
--	--	--------	--

			\$ 1,589.60
--	--	--	-------------

Hole: #7607 x 90° x BQInstalling casing to lake bottom

0 - 4 = 4 feet @ \$1.00 per foot =		\$	4.00
------------------------------------	--	----	------

Overburden

4 - 27 = 23 feet @ \$15.50 per foot =			356.50
---------------------------------------	--	--	--------

Core Drilling

27 - 502 = 475 ft. @ \$15.50 per foot =			7,362.50
---	--	--	----------

Standby - awaiting tests

2 man hours @ \$14.75 per hour =			29.50
----------------------------------	--	--	-------

			\$ 7,752.50
--	--	--	-------------

Hole: #7608 x 90° x BQMaking & cleaning roads

11 tractor hours @ \$18.00 per hour =	\$198.00		
---------------------------------------	----------	--	--

11 man hours @ \$14.75 per hour =	162.25	\$360.25	
-----------------------------------	--------	----------	--

Overburden

0 - 37 = 37 feet @ \$15.50 per foot =			\$573.50
---------------------------------------	--	--	----------

Core Drilling

37 - 88 = 51 feet @ \$15.50 per foot =			\$790.50
--	--	--	----------

			\$ 1,724.25
--	--	--	-------------

Meals Provided for Company personnel

19 man days @ \$17.50 per day =			\$ 332.50
---------------------------------	--	--	-----------

TOTAL INVOICE

			\$43,742.42
--	--	--	-------------

W.M. GRANT TRUCKING LIMITED

Box 78 Carcross Yukon Ph. 4251
 Faro Yukon 2788

March 12, 1976

Cyprus Exploration Ltd.,
Marine Building,
#330-355 Burrard St.,
Vancouver, B.C.

Drill Site Access and Preparation

<u>Date</u>	<u>Invoice</u>	<u>Amount</u>
2/11	2951	\$ 480.00
2/12	2952	480.00
2/13	2953	480.00
2/14	2954	707.50
2/15	2955	740.00
2/16	2956	740.00
2/17	2957	370.00
2/18	2958	347.00
		<u>\$4344.50</u>

- should be 347.50

Thank-you.

ACCOUNT		AMOUNT	
1434 - 10		4,344.50	
TOTAL		4,344.50	
ADDS. & EXTENS.	CHG'NG	D.S. (MAY)	PAID
B	C. Cr.		(D)

WILLIAM GRANT TRUCKING LTD.

Nº 2951 Box 78 Carcross Phone 4251
 To Cyprus Annul Mine Date Feb. 11/76
 Address _____ Location _____
 Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
8	Cat TD-25 Opening up Swin Lake Road	6000	480 ⁰⁰

480⁰⁰

Operator _____ Customers Signature. Frank Boyal

WILLIAM GRANT TRUCKING LTD.

Nº 2952 Box 78 Carcross Phone 4251
 To Cyprus Annul Mine Date Feb. 12/76
 Address _____ Location _____
 Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
8	Cat TD-25 Opening up Swin Lake Road	6000	480 ⁰⁰ ?

Operator _____ Customers Signature. Frank Boyal

WILLIAM GRANT TRUCKING LTD.

Nº 2953 Box 78 Carcross Phone 4251

To Cypresses Annual Mine Date Feb. 13/76

Address _____ Location _____

Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
8	Cat TD-25 Opening up Swim Lake Road	60 ⁰⁰	480 ⁰⁰ 2

Operator _____ Customers Signature. John K. Luyck

WILLIAM GRANT TRUCKING LTD.

Nº 2954 Box 78 Carcross Phone 4251

To Cypresses Annual Mine Date Feb. 14/76

Address _____ Location _____

Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
8	Cat TD-25 Opening up Swim Lake Road	60 ⁰⁰	480 ⁰⁰
7	Grader Grading road	32 ⁵⁰	227 ⁵⁰

Operator _____ Customers Signature. John K. Luyck 707⁵⁰

WILLIAM GRANT TRUCKING LTD.

N^o 2955 Box 78 Carcross Phone 4251

To Cypress Annul Mine Date Feb. 15/76

Address _____ Location _____

Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
8	Cat TD-25 Opening + Grading	60 ⁰⁰	480 ⁰⁰
8	Grader Swim Lake Road	3250	260 ⁰⁰
			740 ⁰⁰

Operator _____ Customers Signature. Frank. Boyzack

WILLIAM GRANT TRUCKING LTD.

N^o 2956 Box 78 Carcross Phone 4251

To Cypress Annul Mine Date Feb. 16/76

Address _____ Location _____

Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
8	Cat TD-25 Opening + Grading	60 ⁰⁰	480 ⁰⁰
	Swim Lake road		
8	Grader	3250	260 ⁰⁰
			740 ⁰⁰

Operator _____ Customers Signature. Frank. Boyzack

WILLIAM GRANT TRUCKING LTD.

N^o 2957 Box 78 Carcross Phone 4251

To Cyprus Annul Mine Date Feb. 17/76

Address _____ Location _____

Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
4	Cat TD-25 <i>Swim Lake</i>	60 ⁰⁰	240 ⁰⁰
4	Grader <i>Road</i>	3250	130 ⁰⁰
			370 ⁰⁰

Operator _____ Customers Signature. *Frank Luzzo*

WILLIAM GRANT TRUCKING LTD.

N^o 2958 Box 78 Carcross Phone 4251

To Cyprus Annul Mine Date Feb. 18/76

Address _____ Location _____

Machine No. _____ Shift _____ Size _____

Hrs. or Yds.	Description	Rate	Total.
2	Cat TD-25 <i>Swim Lake</i>	60 ⁰⁰	120 ⁰⁰
7	Grader <i>Road</i>	3250	22750
			34750

Operator _____ Customers Signature. *Frank Luzzo*



ARCTIC DIAMOND DRILLING LTD.

184 Industrial Road, Whitehorse, Yukon Y1A 2V1



INVOICE #2052
April 30, 1979

IN ACCOUNT WITH:

Cyprus Anvil Mining Corporation,
330 - 353 Burrard Street,
Vancouver, B.C.
V6C 2G8

WORK DONE DURING THE PERIOD
APRIL 3rd - APRIL 29th, 1979

Drilling charges for the period ended April 30, 1979

Hole: DY79-1- 90' x NQ

Core Drilling

0 - 2533 = 2533 feet @ \$19.75 per foot = \$50,026.75

Hole: #DY79-2 - 90' x NQ

Core Drilling

0 - 1614 = 1614 feet @ \$19.75 per foot = \$31,876.50

Hole: #DY79-3 - 90' x NQ

Core Drilling

0 - 359 = 359 feet @ \$19.75 per foot = \$ 7,090.25

Hole: #SL79-1 - 90' x NQ

Core Drilling

0 - 1048 = 1048 feet @ \$19.75 per foot = \$20,698.00

TOTAL INVOICE \$109,691.50

091210

CONTRACT
From Apr. 3 -
Apr. 27/79
(inclusive)

Shipping out of
Ross River.



27620
41430
170440
180343
72553
61640
62145
34525
27620
38028
24218
34525
20715
44933
41430
20715
55208
36513
52715
31123
13810
13810
49111
49111
49111
101422
27418
51333

TOTAL
CHARGES
(INCLUDES FUEL)

1335343 T



TRANS NORTH TURBO AIR LTD.
BOX 4338, WHITEHORSE, YUKON VIA 3T6

TELEPHONE (403)668-2177 • TELEX 036-8-290

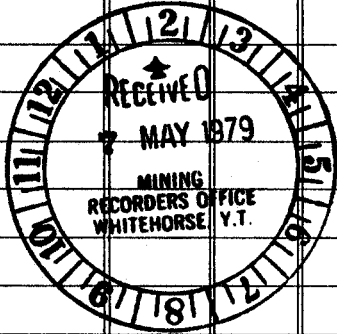
CHARTERER
CYPRUS ANKIL
EXPLORATION

BILLING ADDRESS

ACCOUNT NUMBER	741
31215	
INVOICE DATE	23/14/79
A/C TYPE	5000
AIRCRAFT REGISTRATION C	ATNK
FLIGHT DATE	03/04/79
PURCHASE ORDER NO.	

FUEL & OIL	TNTA FUEL USED	HRS. GALS.	FROM
✓	✓	0.8	RR Bulk CONTRACT

FROM	MILES	HOURS	ZONE	REMARKS - NO. OF PASS.	FREIGHT LBS.
<i>RR</i>					
TO <i>Brown Local</i>		<i>0.8</i>	<i>B</i>	<i>D. Hansen</i>	
<i>Spot Hole</i>				<i>S. BIZIAK</i>	



SUB	G.L.	AMOUNT
6255	ST020	256 00
6255	ST110	20 20

<i>0.8</i>	<i>320</i>	<i>256 00</i>
.		
.		
.		

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	@	/HR.	
FUEL: 20	@	1.01/GAL.	20 20
FUEL: 15	@	/GAL.	
MEALS & LODGING			
OTHER			
OTHER			

CHARTERER'S SIGNATURE
Jack Bogard

PILOT'S SIGNATURE
J. Biziak

ENGINEER'S NAME

TOTAL \$ 276 20

FLIGHT REPORT
INVOICE



TRANS NORTH TURBO AIR LTD.
BOX 4338, WHITEHORSE, YUKON Y1A 3T6

TELEPHONE (403)668-2177 • TELEX 036-8-290

CYPRUS AIRWIL
EXPLORATION

CHARTERER

BILLING ADDRESS

ACCOUNT NUMBER	741
31216	
INVOICE DATE	213/014/78
A/C TYPE	5000
AIRPORT REGISTRATION	ATANK
FLIGHT DATE	040979
PURCHASE ORDER NO.	CONTRACT

FUEL & OIL-X	TNTA FUEL USED	HRS. GALS.	FROM
TNTA CUST.	H-A	1.2	RR

FROM	MILES	HOURS	ZONE	REMARKS - NO. OF PASS - FREIGHT LBS.
TO GRUM LOCAL				ARRIVED
SET OUT & PICK UP				
DRILLERS SLING				
2 LOADS		1.2	B	

SUB	G.L.	AMOUNT
612551020		384.00
612551111		30.30

1.2 * 320 = 384 -

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	@	/HR.	
FUEL:	30	@ 1-01/GAL.	30.30
FUEL:	25	@ /GAL.	
MEALS & LODGING			
OTHER			
OTHER			

Frank Buzin
CHARTERER'S SIGNATURE

[Signature]
PILOT'S SIGNATURE

ENGINEER'S NAME

TOTAL \$ 414.30

FLIGHT REPORT
INVOICE



TRANS NORTH TURBO AIR LTD.
BOX 4338, WHITEHORSE, YUKON Y1A 3T6

TELEPHONE (403)668-2177 • TELEX 036-8-290

CYPRUS-ARVIC

CHARTERER

BILLING ADDRESS

ACCOUNT NUMBER	741
31217	
INVOICE DATE	23/04/79
A/C TYPE	5000 BTNR
FLIGHT DATE	05/04/79
PURCHASE ORDER NO.	
CONTRACT	

FUEL & C.O.B.	TNTA FUEL USED	HR--GALS.	FROM
✓	✓	1.6	PK

FROM	MILES	HOURS	ZONE	REMARKS - NO. OF PASS - FREIGHT LBS.
TO <i>Green Hill Move</i>		<i>5.23</i>		<i>Arctic PD</i>

SUB	G.L.	AMOUNT
<i>6255</i>	<i>20</i>	<i>1664.00</i>
<i>6255</i>	<i>110</i>	<i>40.40</i>

5.23 320⁰⁰ 1664.00

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	@	/HR.		
FUEL:	@	/GAL.		
FUEL: <i>40</i>	@	<i>1'01</i> /GAL.	<i>40</i>	<i>40</i>
MEALS & LODGING				
OTHER				
OTHER				

Stan K. Buziel
CHARTERER'S SIGNATURE

[Signature]
PILOT'S SIGNATURE

ENGINEER'S NAME

TOTAL \$ *1704.40*

FLIGHT REPORT INVOICE

DD-136



TRANS NORTH TURBO AIR LTD.
BOX 4338, WHITEHORSE, YUKON Y1A 3T6

TELEPHONE (403)668-2177 • TELEX 036-8-290

CYPRUS-AIR

CHARTERER

BILLING ADDRESS

ACCOUNT NUMBER	741
31218	
INVOICE DATE	213/04/79
A/C TYPE	5002 GTWK
FLIGHT DATE	060479
PURCHASE ORDER NO.	

FUEL & OIL-K	TNTA FUEL USED	HRS GALS.	FROM
TNTA	AUST.		
✓	✓	1.7	PR

FROM	TO	MILES	HOURS	ZONE	REMARKS - NO. OF PASS - FREIGHT LBS.
<i>Barrow</i>	<i>Drill Move</i>		<i>5.5</i>	<i>3</i>	<i>ARCTIC ID.</i>

SUB	G.L.	AMOUNT
612551020		176000
612551110		4343

<i>5.5</i>	<i>3200</i>	<i>176000</i>

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	@	/HR.	
FUEL:	<i>43</i>	@ 1-01 /GAL.	<i>43 43</i>
FUEL:	@	/GAL.	
MEALS & LODGING			
OTHER			
OTHER			

Ken K. Buzjad
CHARTERER'S SIGNATURE

John Smith
PILOT'S SIGNATURE

ENGINEER'S NAME

TOTAL \$180343

**FLIGHT REPORT
INVOICE**



TRANS NORTH TURBO AIR LTD.
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Cyrus Anvil

ACCOUNT NUMBER	7411
31219	
INVOICE DATE	23/04/79
A/C TYPE	5000 BTURK
FLIGHT DATE	07/04/79
PURCHASE ORDER NO.	

CHARTERER

BILLING ADDRESS

FUEL & OIL	TNTA FUEL USED	WRS. GALS.	FROM
TNTA ✓	JUST. SP-4	2.1	PR

FROM	MILES	HOURS	ZONE	REMARKS - NO. OF PASS. - FREIGHT LBS.
GRUM				
TO				
SKIN LOADS				
TO DRILL SETUP				
& PICKUPS		2.1	B	ARCTIC DD

SUB	G.L.	AMOUNT
612550	20	672 00
612551	10	53 53

2.1 320⁰⁰ 672 00

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	@	/HR.	
FUEL:	53	@ 1.01 /GAL.	53 53
FUEL:	@	/GAL.	
MEALS & LODGING			
OTHER			
OTHER			

Frank Baynes
 CHARTERER'S SIGNATURE

J. Smith
 PILOT'S SIGNATURE

ENGINEER'S NAME

TOTAL \$ 725 53

FLIGHT REPORT INVOICE



TRANS NORTH TURBO AIR LTD.
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DD-136

CYPRUS ANNIL

CHARTERER

BILLING ADDRESS

ACCOUNT NUMBER	741
	31220
INVOICE DATE	23 04 79
A/C TYPE	5000 FTNK
FLIGHT DATE	08 04 79
PURCHASE ORDER NO.	
CONTRACT	

FUEL B. MIL-X	TNTA FUEL USED	ARRS.-GALS.	FROM
✓	✓	1.6	PR

FROM	MILES	HOURS	ZONE	REMARKS - NO. OF PASS - FREIGHT LBS.
FROM				
TO				
SETOUT CREW				
EVENING 3 TRIPS				
GRUM-SWIM				
PICKUP CREW		1.8	5	ARCTIC DD

SUB	G.L.	AMOUNT
6125	5020	57600
6125	5110	4040

1.8	320 ⁰⁰	57600
•		
•		
•		

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	@	/HR.	
FUEL:	40	1.01 /GAL.	4040
FUEL:	@	/GAL.	
MEALS & LODGING			
OTHER			
OTHER			

Frank Buzard
 CHARTERER'S SIGNATURE

JR Smith
 PILOT'S SIGNATURE

ENGINEER'S NAME

TOTAL \$ 61640

FLIGHT REPORT
 INVOICE



TRANS NORTH TURBO AIR LTD.
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CYPRUS-AVULC

CHARTERER

BILLING ADDRESS

ACCOUNT NUMBER	741	DD-136
31221		
INVOICE DATE	23/04/79	AREA B.C. <input type="checkbox"/> YUKON <input type="checkbox"/> NWT <input type="checkbox"/> ALTA. <input type="checkbox"/>
A/C TYPE	AIRCRAFT REGISTRATION C	
500D	RTNR	
FLIGHT DATE	DAY	MONTH
09	04	79
PURCHASE ORDER NO.		
CONTRACT		

REL. & CUST.	TNTA FUEL USED	HRS.-GALS.	FROM
U	IP-4	1.8	PR

FROM	TO	MILES	HOURS	ZONE	REMARKS - NO. OF PASS. - FREIGHT LBS.
GRON	CHANGE CREWS				
	S. BURIAL SWINK				
	LOCAL FLT				
	CHANGE CREWS		1.8	B	ARCTIC DD

SUB	S.L.	AMOUNT
6255020		576.00
6255110		45.45

1.8	320 ⁰⁰	576.00
0		
0		
0		

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 90 DAYS OF DATE ISSUED.

WAITING TIME	@	/HR.	
FUEL: 45	@	1.01 /GAL.	45.45
FUEL:	@	/GAL.	
MEALS & LODGING			
OTHER			
OTHER			

Don K. Luyet
CHARTERER'S SIGNATURE

J.R. White
PILOT'S SIGNATURE

Jim DOUGLAS
ENGINEER'S NAME

HS TOTAL \$ 621.45

**FLIGHT REPORT
INVOICE**

DD-136



TRANS NORTH TURBO AIR LTD.
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CYPRUS-ANUIK

CHARTERER

BILLING ADDRESS

ACCOUNT NUMBER	741
31222	
INVOICE DATE	23 10 47 9
A/C TYPE	5002 FTWK
FLIGHT DATE	10 04 79
PURCHASE ORDER NO. CONTRACT	

FUEL TNT	OIL X	TNTA FUEL USED	HRS	GALS.	FROM
✓		SP4	1.0	PR	

FROM	TO	MILES	HOURS	ZONE	REMARKS - NO. OF PASS - FREIGHT LBS.
GRUM	CHANGE CREWS				
	1 TRIP GRUM				
	CHANGE CREWS		1.0	B	ARCTIC DD

SUB	G.L.	AMOUNT
625	5020	320 00
625	5110	2525

1.0	320 ⁰⁰	320 00
@		
@		
@		

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	@	/HR.	
FUEL:	25	@ 1.01 /GAL.	25 25
FUEL:	@	/GAL.	
MEALS & LODGING			
OTHER			
OTHER			

Frank Buzal
CHARTERER'S SIGNATURE

J. S. T. T.
PILOT'S SIGNATURE

SIM POUGLAS
ENGINEER'S NAME

TOTAL \$ 345 25

FLIGHT REPORT
INVOICE



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DD-136

Cyrus-Advic

CHARTERER

ACCOUNT NUMBER	741
31225	
INVOICE DATE	23 04 79
A/C TYPE	5000
AIRCRAFT REGISTRATION C	GTNR
FLIGHT DATE	11 04 79
PURCHASE ORDER NO.	
CONTRACT	

BILLING ADDRESS

FUEL #	TNTA FUEL USED	HRS.-GALS.	FROM
U	SPA	0.8 RR	

FRIGHT	MILES	HOURS	ZONE	REMARKS - NO. OF PASS - FREIGHT LBS.
<i>FILM</i>				
<i>Swim Lics</i>		0.8	B	<i>ARCTIC DRILLING</i>

SUB	G.L.	AMOUNT
61255020		25600
61255110		2020

0.8 @ 320⁰² 256 00

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	@	/HR.	
FUEL: 20	@	1.01 /GAL.	20 20
FUEL:	@	/GAL.	
MEALS & LODGING			
OTHER			
OTHER			

Frank K. Boyer
 CHARTERER'S SIGNATURE

J. H. [Signature]
 PILOT'S SIGNATURE

ENGINEER'S NAME

\$ 276 20

FLIGHT REPORT INVOICE



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DD-136

CYPRUS-ANVIL

CHARTERER

BILLING ADDRESS

ACCOUNT NUMBER	741
31226	
INVOICE DATE	23/04/79
A/C TYPE	5000 RTNK
FLIGHT DATE	1/20/79
PURCHASE ORDER NO.	

FUEL OIL-X	TNTA FUEL USED	RS. GALS.	FROM
J	JL-4	1.1	RR

FROM	MILES	HOURS	ZONE	REMARKS - NO. OF PASS.	FREIGHT LBS.
<i>FROM Krum</i>					
<i>TO Swin Lakes</i>		<i>1.1</i>	<i>B</i>	<i>Acme DD</i>	

SUB	G.L.	AMOUNT
6255020		35200
6255110		2828

<i>1.1</i>	<i>320⁰⁰</i>	<i>35200</i>

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	@	/HR.	
FUEL: <i>28</i>	@	<i>1.01</i> /GAL.	<i>2828</i>
FUEL:	@	/GAL.	
MEALS & LODGING			
OTHER			
OTHER			

John K. Buzard
 CHARTERER'S SIGNATURE

J. K. Buzard
 PILOT'S SIGNATURE

ENGINEER'S NAME

TOTAL \$ 380 28

FLIGHT REPORT
 INVOICE



TRANS NORTH TURBO AIR LTD.
 BOX 4338, WHITEHORSE, YUKON VIA 3T6

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DD-136

CYPRUS - ANVIC

CHARTERER

BILLING ADDRESS

ACCOUNT NUMBER	741
31227	
INVOICE DATE	213 1479
A/C TYPE	5000 RTA 12
FLIGHT DATE	13 04 79
PURCHASE ORDER NO.	
CONTRACT	

FUEL & OIL	TNTA FUEL USED	ARR.-GALS.	FROM
TNTA	COST.		
	JP-4	0.7	RR

FROM	MILES	HOURS	ZONE	REMARKS - NO. OF PASS - FREIGHT LBS.
<i>Farm</i>				
<i>Swan Lake</i>		<i>0.7</i>	<i>B</i>	<i>ARRIVED</i>

SUB	G.L.	AMOUNT
<i>G25502</i>	<i>0</i>	<i>224 00</i>
<i>G255111</i>	<i>0</i>	<i>18 18</i>

<i>0.7</i>	<i>320°</i>	<i>224</i>	<i>00</i>
@			
@			
@			

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	@	/HR.	
FUEL:	<i>18</i>	@ <i>1-01</i> /GAL.	<i>18 18</i>
FUEL:	@	/GAL.	
MEALS & LODGING			
OTHER			
OTHER			

Frank D...
 CHARTERER'S SIGNATURE

[Signature]
 PILOT'S SIGNATURE

ENGINEER'S NAME

TOTAL \$ 242 18

FLIGHT REPORT INVOICE



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CYRUS - ANVIL

ACCOUNT NUMBER	741
31228	
INVOICE DATE	21301479
A/C TYPE	5000 RTNR
FLIGHT DATE	140479
PURCHASE ORDER NO.	
CONTRACT	

CHARTERER

BILLING ADDRESS

FUEL & OIL - TNTA CUST.	TNTA FUEL USED	RS.-GALS.	FROM
✓	JP-4	1.0	RR

FROM	MILES	HOURS	ZONE	REMARKS - NO. OF PASS - FREIGHT LBS.
FROM <i>FRUM</i>				
TO <i>SWIM LES</i>		10	B	<i>ACTED</i>

SUB	G.L.	AMOUNT
6125	STO	20 320 00
6125	STI	11 0 25 25

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	@	/HR.	
FUEL:	25	@ 1-11 /GAL.	25 25
FUEL:	@	/GAL.	
MEALS & LODGING			
OTHER			
OTHER			

Hank K. Bishop
 CHARTERER'S SIGNATURE

[Signature]
 PILOT'S SIGNATURE

ENGINEER'S NAME

TOTAL \$ 345 25

**FLIGHT REPORT
INVOICE**



TRANS NORTH TURBO AIR LTD.
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CYPRIUS - ANVIC

CHARTERER

BILLING ADDRESS

ACCOUNT NUMBER	741	31229
INVOICE DATE	23 10 47 9	AREA B.C. YUKON NWT ALTA.
A/C TYPE	500D	AIRCRAFT REGISTRATION C
FLIGHT DATE	15 04 79	DAY MONTH YEAR
PURCHASE ORDER NO.		

FUEL & OIL X	TNTA FUEL USED	WRS. GALS.	FROM
J	SP-1	0.6	IRR

CONTRACT

FROM	MILES	HOURS	ZONE	REMARKS - NO. OF PASS - FREIGHT LBS.
<i>GRUM</i>		<i>0.6</i>	<i>B</i>	<i>ARCTIC DD</i>
<i>SEWIM LMS</i>				

SUB	G.L.	AMOUNT
<i>6125 ST020</i>		<i>192 00</i>
<i>6125 ST110</i>		<i>15 15</i>

0.6 @ 320° 192 00

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	@	/HR.	
FUEL:	<i>15</i>	@ <i>1-01</i> /GAL.	<i>15 15</i>
FUEL:	@	/GAL.	
MEALS & LODGING			
OTHER			
OTHER			

Frank Kupiec
CHARTERER'S SIGNATURE

J. S. H.
PILOT'S SIGNATURE

ENGINEER'S NAME

TOTAL \$ 207 15

FLIGHT REPORT INVOICE

DD-136



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CYPRUS ANVIL

CHARTERER

BILLING ADDRESS

FUEL & OIL-X	TNTA FUEL USED	WRS GALS.	FROM
TNTA CUST.	<i>JP-4</i>	<i>1.3</i>	<i>RR</i>

ACCOUNT NUMBER	<i>741</i>
31230	
INVOICE DATE	<i>2/3/79</i>
A/C TYPE	<i>5000 GTNK</i>
FLIGHT DATE	<i>1/6/79</i>
PURCHASE ORDER NO.	
<i>CONTRACT</i>	

FROM <i>ARRM</i>	MILES	HOURS	ZONE	REMARKS - NO. OF PASS - FREIGHT LBS
TO <i>SWM LKS</i>		<i>1.3</i>	<i>B</i>	<i>ARCTIC DD</i>

SUB	G.L.	AMOUNT
<i>62550120</i>		<i>416.00</i>
<i>62551110</i>		<i>33.33</i>

<i>1.3</i>	<i>320'</i>	<i>416.00</i>

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME		/HR.	
FUEL:	<i>33</i>	<i>1-01/GAL.</i>	<i>33.33</i>
FUEL:		/GAL.	
MEALS & LODGING			
OTHER			
OTHER			

Frank Buzgala
CHARTERER'S SIGNATURE

[Signature]
PILOT'S SIGNATURE

ENGINEER'S NAME

TOTAL \$ *449.33*

FLIGHT REPORT
INVOICE

DD-136



TRANS NORTH TURBO AIR LTD.
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ACCOUNT NUMBER	74
31231	
INVOICE DATE	23/14/79
A/C TYPE	5000 RTNK
FLIGHT DATE	170479
PURCHASE ORDER NO. CONTRACT	

CHARTERER *Cyrus Anvil*

BILLING ADDRESS

FUEL & OIL-TNTA CUST.	TNTA FUEL USED	LBS.-GALS.	FROM
<input checked="" type="checkbox"/>	JP-4	1.2	PK

FROM	MILES	HOURS	ZONE	REMARKS - NO. OF PASS - FREIGHT LBS.
<i>CRON</i>				
<i>SWIM LKS</i>				
<i>SWIM MVA</i>		<i>1.2</i>	<i>B</i>	<i>ARCTIC DD</i>

SUB	G.L.	AMOUNT
<i>6215</i>	<i>ST 020</i>	<i>384 00</i>
<i>6215</i>	<i>ST 110</i>	<i>30 30</i>

1.2 @ 3200' 384.00

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	@	/HR.	
FUEL:	<i>30</i>	@ <i>101</i> /GAL.	<i>30 30</i>
FUEL:	@	/GAL.	
MEALS & LODGING			
OTHER			
OTHER			

CHARTERER'S SIGNATURE *Jan K. Ruynd*

PILOT'S SIGNATURE *[Signature]*

ENGINEER'S NAME

TOTAL \$ *414 30*

**FLIGHT REPORT
INVOICE**

**T
N
T**  **TRANS NORTH TURBO AIR LTD.**
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ACCOUNT NUMBER	741
31234	
INVOICE DATE	010579
A/C TYPE	580D
AIRCRAFT REGISTRATION C	CTUE
FLIGHT DATE	190479
PURCHASE ORDER NO.	
CONTRACT	



CHARTERER **CYPRUS - ADVIL MINING CORP.**
 330-355 BURREARD ST
 BILLING ADDRESS
 VANCOUVER, BC V6C 2G8
 FUEL & OIL-TNTA FUEL USED **0.3 RR**

FROM	TO	MILES	HOURS	ZONE	REMARKS - NO. OF PASS.	FREIGHT LBS.
RR	Mill - Camp Slide				S. BIZIAK	
	2 LOADS MUD.				ARCTIC DD	
	LOAD ROOS & LOAD FUEL					
	CREW CHANGES		1.7	B		

SUB	G.L.	AMOUNT
6255020		544.00
6255110		8.08

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.	WAITING TIME	@	/HR.	
	FUEL:	8	@ 1.01 /GAL.	808
	FUEL:		@ /GAL.	
	MEALS & LODGING			
	OTHER			
	OTHER			

Frank D. [Signature]
 CHARTERER'S SIGNATURE
[Signature]
 PILOT'S SIGNATURE
 ENGINEER'S NAME

TOTAL \$ 552.08



TRANS NORTH TURBO AIR LTD.
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CYPRIUS - ANK

CHARTERER

BILLING ADDRESS

FUEL # OIL-X	NTA FUEL USED	MTS.-GALS.	FROM
UN	SP-4	0.5	RR

ACCOUNT NUMBER	741
31235	
INVOICE DATE	01/05/79
A/C TYPE	500D P-TURK
FLIGHT DATE	700479
PURCHASE ORDER NO. CONTRACT	

FROM	MILES	HOURS	ZONE	REMARKS - NO. OF PASS - FREIGHT LBS.
FROM CHANGE CREWS LOAD FUEL SLING WATER TANK		1.1	B	ARCTIC DD

SUB	G.L.	AMOUNT
625	\$020	35200
625	\$110	1313

1.1 @ 320 ⁰⁰	35200
@	
@	
@	

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	@	/HR.	
FUEL: 12	@ 1.01	/GAL.	13 13
FUEL:	@	/GAL.	
MEALS & LODGING			
OTHER			
OTHER			

Frank K. Bryant
 CHARTERER'S SIGNATURE

John D. K.
 PILOT'S SIGNATURE

ENGINEER'S NAME

TOTAL \$ 365 13

**FLIGHT REPORT
 INVOICE**



TRANS NORTH TURBO AIR LTD.
 BOX 4338, WHITEHORSE, YUKON Y1A 3T6

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CYPRUS ANVIL

CHARTERER

BILLING ADDRESS

ACCOUNT NUMBER	741
31236	
INVOICE DATE	01/05/79
A/C TYPE	500 DRINK
FLIGHT DATE	21/04/79
PURCHASE ORDER NO.	
CONTRACT	

FUEL & OIL	TNTA FUEL USED	RS. GALS.	FROM
TNTA CUST.	SP-4	0.6	PR

FROM	MILES	HOURS	ZONE	REMARKS - NO. OF PASS. - FREIGHT LBS.
PRM				
CHANGE CREWS				
SLINE MOD.				
GEOLGISTS TO DRILL RIG				
HALL EMPTY DRUMS BEHM				
CHANGE CREWS	1.6	B		ARTIC (D) S. BOZIAK

SUB	G.L.	AMOUNT
625	5020	51200
625	5110	1515

1.6	• 320 ⁰⁰	51200
•		
•		
•		

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	•	/HR.	
FUEL: 15	• 1.01	/GAL.	1515
FUEL:	•	/GAL.	
MEALS & LODGING			
OTHER			
OTHER			

Frank K. Boyer
 CHARTERER'S SIGNATURE

John Smith
 PILOT'S SIGNATURE

ENGINEER'S NAME

TOTAL \$ 527.15

FLIGHT REPORT INVOICE



TRANS NORTH TURBO AIR LTD.
 BOX 4338, WHITEHORSE, YUKON Y1A 3T6

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CYPRESS ANNUAL

CHARTERER

BILLING ADDRESS

ACCOUNT NUMBER	741
31237	
INVOICE DATE	01/05/79
A/C TYPE	3000 CFNK
FLIGHT DATE	220479
PURCHASE ORDER NO.	
<i>CONTRACT</i>	

FUEL & OIL - I	TNTA FUEL USED	HRS. - GALS.	FROM
TNTA CUST.	JH-4	0.9	RR

FROM	MILES	HOURS	ZONE	REMARKS - NO. OF PASS. - FREIGHT LBS.
<i>Edum</i>				
<i>CHANGE CREWS</i>				
<i>CHANGES TO DRILL</i>				
<i>CHANGE CREWS</i>		0.9	B	ARCTIC DD

SUB	G.L.	AMOUNT
62550120		288 00
6255110		23 23

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

Frank K. Lewis
 CHARTERER'S SIGNATURE

J.R. W.K.
 PILOT'S SIGNATURE

ENGINEER'S NAME

0.9 @ 320 ⁰⁰	288 00
@	
@	
@	
WAITING TIME @ /HR.	
FUEL: 23 @ 1.01 /GAL.	23 23
FUEL: @ /GAL.	
MEALS & LODGING	
OTHER	
OTHER	

TOTAL \$ 311 23

**FLIGHT REPORT
 INVOICE**



TRANS NORTH TURBO AIR LTD.
 BOX 4338, WHITEHORSE, YUKON Y1A 3T6

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CYRUS ANVIL

CHARTERER

BILLING ADDRESS

ACCOUNT NUMBER	741
31238	
INVOICE DATE	01/05/79
AREA	<input type="checkbox"/> B.C. <input type="checkbox"/> YUKON <input type="checkbox"/> NWT <input type="checkbox"/> ALTA.
A/C TYPE	5000
AIRCRAFT REGISTRATION C	ATW
FLIGHT DATE	23/04/79
PURCHASE ORDER NO. CONTRACT	

FUEL & OIL-TNTA	TNTA FUEL USED	HRG.-GALS.	FROM
✓	SP-4	0.4	RR

FROM	MILES	HOURS	ZONE	REMARKS - NO. OF PASS - FREIGHT LBS.
TO CHANGE CREWS		0.4	B	ARRIVE DD

SUB	S.L.	AMOUNT
6255020		128 00
6255110		10 10

0.4 @ 320 ⁰⁰	128 00
@	
@	
@	

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	@	/HR.	
FUEL: 10	@ 1.01 /GAL.		10 10
FUEL:	@ /GAL.		
MEALS & LODGING			
OTHER			
OTHER			

Frank Dwyer

CHARTERER'S SIGNATURE

J. M. H.

PILOT'S SIGNATURE

ENGINEER'S NAME

TOTAL \$ 138 10

**FLIGHT REPORT
INVOICE**



TRANS NORTH TURBO AIR LTD.
 BOX 4338, WHITEHORSE, YUKON Y1A 3T6

TELEPHONE (403)668-2177 • TELEX 036-8-290

Cyrus Anvil

CHARTERER

BILLING ADDRESS

ACCOUNT NUMBER	741
30939	
INVOICE DATE	9/10/79
A/C TYPE	206B FTNT
FLIGHT DATE	230479
PURCHASE ORDER NO.	
Contract	

FUEL & OIL	TNTA FUEL USED	U.S. GALS.	FROM
TNTA CUST.	SP-1	0.4 RR	

FROM	TO	MILES	HOURS	ZONE	REMARKS - NO. OF PASS - FREIGHT LBS.
GRUM	PEKUPS		0.4	B	Arctic DD

SUB	G.L.	AMOUNT
625	5020	12800
625	5110	1010

0.4 @ 320⁰⁰ 128 00

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	@	/HR.	
FUEL: 10	@	1.01/GAL.	10 10
FUEL:	@	/GAL.	
MEALS & LODGING			
OTHER			
OTHER			

Ken Beyer
 CHARTERER'S SIGNATURE

J. Smith
 PILOT'S SIGNATURE

ENGINEER'S NAME

TOTAL \$ 13810

**FLIGHT REPORT
 INVOICE**

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TRANS NORTH TURBO AIR LTD.
BOX 4336, WHITEHORSE, YUKON T1A 3T6

TELEPHONE (403)668-2177 • TELEX 036-8-290

C. YARUS-ANVIC

CHARTERER

BILLING ADDRESS

ACCOUNT NUMBER	741
30940	
INVOICE DATE	11/15/79
A/C TYPE	206B F100
AIRCRAFT REGISTRATION C	
FLIGHT DATE	24-04-79
PURCHASE ORDER NO.	
CONTRACT	

FUEL # OIL-X	TNTA FUEL USED	ARS-GALS.	FROM
TNTA CUST	A-4	0.5	RR

FROM	MILES	HOURS	ZONE	REMARKS - NO. OF PASS - FREIGHT LBS.
TO <i>SQUIMLUS</i>				
<i>SLIMBMAN'S POOLS</i>		<i>1.5</i>	<i>B</i>	<i>ARCTIC DD</i>
<i>CHANGE CREWS</i>				

SUB	G.L.	AMOUNT
6025020		48000
6025110		1111

<i>1.5</i>	<i>@ 320⁰⁰</i>	<i>48000</i>
<i>@</i>		
<i>@</i>		
<i>@</i>		

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	@	/HR.	
FUEL: <i>11</i>	@	<i>1.01</i> /GAL.	<i>1111</i>
FUEL:	@	/GAL.	
MEALS & LODGING			
OTHER			
OTHER			

Frank D. ...
CHARTERER'S SIGNATURE

J. ...
PILOT'S SIGNATURE

ENGINEER'S NAME

TOTAL \$ *49111*

FLIGHT REPORT

INVOICE



TRANS NORTH TURBO AIR LTD.
 BOX 4338, WHITEHORSE, YUKON Y1A 3T6

TELEPHONE (403)668-2177 • TELEX 036-8-290

Cyprus Avion

CHARTERER

BILLING ADDRESS

ACCOUNT NUMBER	741
30941	
INVOICE DATE	11/15/79
A/C TYPE	206B
AIRCRAFT REGISTRATION C	FTNT
FLIGHT DATE	25/04/79
PURCHASE ORDER NO.	
CONTRACT	

FUEL & OIL-X	TNTA FUEL USED	RS	GALS.	FROM
TNTA CUST.	404	1.0	RR	

FROM	TO	MILES	HOURS	ZONE	REMARKS - NO. OF PASS - FREIGHT LBS.
GRAM	CHANGE CROWS.				
	SWING 3 LEADS FUEL				
	2-MIN - 2 RODS				
	1-NET	3.1	3	Arctic DD	

SUB	G.L.	AMOUNT
61025020		99200
61025110		2222

3.1 @ 320° 99200

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	@	/HR.	
FUEL: 22	@	1-01/GAL.	22 22
FUEL:	@	/GAL.	
MEALS & LODGING			
OTHER			
OTHER			

Frank Buznet
 CHARTERER'S SIGNATURE

J. Stolt
 PILOT'S SIGNATURE

ENGINEER'S NAME

TOTAL \$101422

**FLIGHT REPORT
 INVOICE**

CYPRIUS ANNIC

ACCOUNT NUMBER	741
30943	
INVOICE DATE	11/15/79
A/C TYPE	206B PT NT
FLIGHT DATE	27 04 79
PURCHASE ORDER NO. CONTRACT	

CHARTERER: _____
 BILLING ADDRESS: _____
 FUEL & OIL: TANTA COST:
 TANTA FUEL USED: *JPA* (HRS) GAL. FROM: *1.5 RR*

FROM	MILES	HOURS	ZONE	REMARKS - NO. OF PASS - FREIGHT LBS.
TO <i>CHANGE CREWS</i>				
<i>SURVEY HOLE</i>				
<i>SPOT HOLE</i>				
<i>CHANGE CREWS</i>		<i>1.5</i>	<i>B</i>	<i>ARCTIC DD</i> <i>S. BURIAK</i>

SUB	G.L.	AMOUNT
<i>60125102</i>	<i>0</i>	<i>480 00</i>
<i>60125111</i>	<i>0</i>	<i>33 33</i>

<i>1.5 @ 320'</i>	<i>480 00</i>
FUEL: <i>33</i>	<i>@ 1.01 / GAL. 33 33</i>
MEALS & LODGING	
OTHER	

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

Jan K. Beyer
 CHARTERER'S SIGNATURE
J. K. Beyer
 PILOT'S SIGNATURE

TOTAL \$ 513 33

ENGINEER'S NAME

FLIGHT REPORT

INVOICE

Cyprus Anvil Mining Corporation

330, 355 Burrard Street Telex 04508594
Vancouver, British Columbia
V6C 2G8
Telephone (604) 687-2586



ADMINISTRATIVE CHARGE

Assessment Work Submitted:	DDH 79-SB-01
Date :	May 4th, 1979
Amount Submitted :	\$34,051.43

As the above costs do not include salaries, food and lodging of supervisory personnel, or office overhead costs, we are including with this submission an Administrative Charge in the amount of \$3,405.14, being 10% of the total costs submitted.

C. Malish
Asst. to Comptroller