

CYPRUS ANVIL MINING CORPORATION

DIAMOND DRILL CORE LOG

Hole Number: CNR 76-02

Fabric Orientation Diagram:

Project: Vangonda Plateau Remapping

Location: _____

Claim: CHAMP 2

Terr. Plane

Co-ords.: 6903542.0 N

593360.0 E

*measured from
1979. or top photo
1:5000 scale*

Grid

Co-ords.: 85 / 16W

All symmetry determinations looking

_____ with _____ dipping

Elevation: 1179.0 metres

_____ with dip azimuth _____.

Total Depth: 1108 feet = 337.7 metres

Purpose: _____

Logged by: GAS/LCP

Date(s) Logged: July 9-10 / 1984

Drilling Contractor: _____

Core:	Size	From	To	Collar Cased and Capped:
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Started: July 20, 1976 Completed: July 27, 1976

Fect

All footages questionable.

because footages blocks too weathered to read.

DDH C.N.R.7.6.0.2
2 8

Cyprus Anvil Mining Corp.
Lithologic Log

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Date: July 9 Logged By: Gas/ACP

change to 42
ce original
log

change to 110
ce orig.
log

Code	From	To	Recov.	No.	Unit	Description
	10 14 16	20 22 24 26 28 30 34 35				
L	10	1413		11	#1	Overburden
L	1413	11015		12	5C1#1#	Dark green-light green coarsely mottled rock w/ regular anastomosing S ₁ fltn w/ dk green chlorite laminae separating light off-white carbonate-filings?-chlorite. S ₁ cut by well developed S ₂ cleage. Last 10 ft is orange weathering - due to dolomite being dominant carbonate. Last 4" fine grained. Good example of intermediate development of 5C* - "leopard rock". S ₁ generally has very acute angle w/ core axis. Last 3' has steep dk green chlorite laminae seems to cut S ₂ - therefore probably not S ₁ . Core broken at top of hole - otherwise intact
L	11015	11019		13	31F9	weak (5A0) 70:30 Dk medium grey, finely x-line calcite marble interlayered w/ minor black, slightly calcareous phyllite. Marble is "not silicated". Top 1/2 broken Bottom 1/2 intact. No significant faults
L	11019	12018		14	5A10	±1 [5A6±, ±1] Dk grey to locally black, nearly P52 foliated, locally rusty brown weathering, slightly calc or dolomitic, moderately hard, to locally soft carbonaceous phyllite. Exhibits "dolomite flash". Exhibits S ₂ striping in black & light grey. Dolomite flash seems to suggest minor amt. of some carbonate. Minor py & po locally. Core broken, locally cobbly & poker chippy. TOT=140.5' - upper 1/2 is rusty brn weathering / 140 1/2 - 141.5 IN10 gauge / 175' - more gauge. / 175-195 med. broken / 195-205 med. broken to cobbly / intact to 202.

±1 means
borderline!
just not quite
hard enough

C.A.M.C. 1981 - E - 3A

99 ft. interval w/ 6.5' core recovered. Poor recovery largely 139-181 50% recovered

Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20 22 24 26 28 30 34 35					
L	12018	12019		15	10A10A	arc-carbonate vein - doesn't fizz w/ 20% unless scratched Parallel S ₂ w/ orange weathering carbonate as platy crystals across S ₂
L	12019	13113		16	15A10	± 8 ± 1 Moderately hard, dk grey to black, strongly color-striated, graphitic phyllite. Has "dolomite flash". Nearly PSZ foliated w/ 1-5 mm S ₁ bearing lithons separated by dk grey to black, softer, S ₂ carbonaceous folia. S ₂ folia are the parts that generally give "dolomite flash". Contains isolated lithons & bands of granular Qtz + orange-tan weathering carbonate (dolomite + calcite). Minor py & go disseminated - largely as thin blebs along S ₂ & S ₁ and Qtz-bearing segregations and post-S ₂ fractures. Sulphide largely py. Borderline to 5A1. Core intact - locally broken - esp. last 2' locally pale or chippy. Recovery OK. No major faults.
L	13113	13113		17	15D141*	
L	13113	13151		18	15A101	± 1 ± 9 minor [5A6 ± 1 ± 9 minor] (5A19 minor) 70:30 Mod. hard to locally very soft/hard, dk grey to black carbonaceous phyllite (as above). Generally exhibits "dolomite flash". Contains minor bands of py + go in phase bands (near center of unit). Mod. broken but no significant faults. Recovery - may be some core loss in lower 1/2 of unit - more broken w/ minor gouge. Coarser more phase bands from better lithons.
L	13151	13152		19	15D141*	

± 1 borderline
the 1
slightly siliceous

Traces of "fuchsite" Rusty orange-brn weathering, PSZ (or PSt) foliated, musc-Qtz-carbonate chon. w/ finely granular texture. No pronounced layering. Presumed carbonated mafic meta-igneous. Contacts kni Ses Hard // S₂ No alt in carbonaceous rocks. Mod. intact.

Code	From	To	Recov.	No.	Unit	Description
	10 14 16	20 22 24	26 28 30	34 35		
L	131512	141219		1110	51A101	±1 ±9 v. minor ± \$ minor (5A1) Dk gray to blk, med. hrd to hard, carbonaceous siliceous phyllite. Pg, ps & some sphal. dissem. along SZ & S ₁ & iron glauconite bands. Rock locally interbedded dk gray & black nearly PS2 flinty black & white. Lighter grey units resemble fine grained breccia in 4A - implies perhaps meta-cherts. Has "dolomite flash" locally - except where it is really hard. Rock has characteristic very fine laminated texture in black & dk. med. grey. Rock extremely hard where that texture is well developed. 2 1/2 inch band of py w/ minor calcite at 396'. Minor interbeds of possible dolomitic siltstone. Mod. broken ^{Minor gouge} TOI - 390 / intact 390-406 / med. broken 406-EOI. Post S ₂ veining qtz-carb. & possible minor faults. Nothing significant.
L	141219	141660		1111	51A1	gouge - fault Mod. hard to med. soft, dk gray to black, highly broken & sheared, carbonaceous phyllite. Locally "dolomite flash". Similar to above only very broken. 60% recovery. Considerable INO gouge 450'-460'. Sections of steep S ₂ & steep fractures. At TOI fractures 20° C.A. Shearing - steep in middle of zone. Bottom INO. Steeply dipping normal fault. (?)
L	141616	141619		1112	51A101	(5A1) 70-80 Dk grey, med. hard, carbonaceous phyllite. "Dolomite flash". Intact. Two rock types grade into each other.
		141710		1113	51D141*	Fold nose / intact

130.7

142.0

143.1

143.4

borderline

Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20 22 24 26 28 30 34 35					
L	15100	15108		114	51A10	± 1 ± $\frac{1}{A}$ ^{minor} v. minor (5A19 minor) 70:30 Mod. hard to locally hard or soft, dk grey to black carbonaceous phyllite "Dolomite flecks" from dk bands. Minor dissem py, po, sphal in the bands // S ₂ folia. Mod. lithons where banding coarser - generally lithons are small. Thin mang-brn weathering dolomitic siltstone bands One 4" layer 504# at 502'. Intact to mod. broken TOI-500/500-EOI mod. broken w/ minor IND gauge. Two units are gradational.
L	15108	15112		115	51E2	[3F9] Thinly laminated, dk grey carbonaceous limestone, finely v. fine marble. Intact
L	15112	15114		116	51A10	Dk grey, slightly calcareous (?), carbonaceous phyllite / Intact
L	15114	15125		117	51A11	→ 5A0 Dk med. greenish grey, mod. hard to soft, phyllite w/ possible chlorite (greenish colour) Intertongued calcareous bands Does not look like SA. Suspect alteration adjacent to fault Grades downhole to dk grey phyllite Mod broken w/ local rubble
L	15125	15128		118	51A11T	Dk grey rubble w/ some greenish grey chunks IND

to =
508

From
508
156.0

156.6

160.0

160.9

Potential
conodont
rock -
sampled
and given
to GSC.

185.9

187.4

189.8

202.9

Code	From				To				Recov.	No.	Unit	Description
	10	14	16	20	22	24	26	28				
L	15218	16110							119	5TA01	± 9 ± 1 (5A19) 80: 20 Mod. hard to locally very hard, dk grey carbonaceous phyllite. 'Dolomite flash' locally. Contains thin bands of gt-calcite-dolomite (?) - minor py siltstone (?) - Minor sphal in dense bands along S1. bands very thin (3mm) olive-greenish grey possible buff bands. One foot interbands of extremely hard black gts with po disseminators along S2 - chert? Last 10' has thin interbands of py + py as blebs along folia. Intact to mod. broken - no major faults.	
L	16110	16115							120	5TA11	± 9 minor Hard, dk grey to black, carbonaceous, fine grained gts w/ minor dissem. po + py lighter colored bands resemble darker bands in 4A Intact. No "dolomite flash"	
L	16115	16213							121	5TA01	± 5 (?) calc-silicate minor Mod. hard, dk grey phyll. w/ gt-calcite ± dol + py in lithons Intact	
L	16213	16660							122	5TA11	± 9 minor Hard to very hard, dk grey to black, thin S2 foliated carbonaceous phyllite. Minor po + py along folia & in gts blebs. Intact to mod. broken, no signif faults. Small bra vein 624' 25° C.A.	

11 borderline

Minor calc-silicate mineralogy

1 borderline

Code	From		To		Recov.	No.	Unit	Description		
	10	14	16	20					22	24
L	161610		181020			1213	51A01	± 1 minor ± 9 minor ± calc.-silicate Mod. soft to mod. hard, dk grey to black, variably calcareous, carbonaceous phyllite. Short sections of greenish calcite-calc-silicate lithons forming bands. Short sections very hard. Minor py & pyg bands along S1 & S2, blots along S1 & S2. "Dolomite flash" TOI-770 intact to locally pitted chippy / 770-780 broken rubble w/ 40% 100 gauge / 780-800 broken w/ local rubble. Recov. below 770' x 75%		
L	181020		191113			1214	51A11	± 9 minor Hard to very hard, dk grey to black, carbonaceous, white. Cuts very small. Resembles 4A. Contains py lenses in glassy bands forming lithons. Also minor py & sphal. Sulphides also disseminated along S1 & S2. Contains minor, indistinct layers of coarser ph. calcite-calc-silicate forming lithons. Minor "Dolomite flash" Characteristic fine laminations along S1 Beautifully intact		
L	191130		191210			1215	51A01	c.s. (51A ± 9 minor) 70:30 Mod. hard to hard, dk grey, variably calcareous, ph phyllite. Two calc types A - mod. hard phyllite w/ greenish (calc-silicate) calcareous lithons. B - dk grey, very hard, carbonaceous, white. 9 fu py, pyg, minor sphal Intact		

244.4

278.2

280.3

~~abundant~~
~~with py~~
lithons.

281.8

297.3

~~294.9~~
294.9

295.4

Code	From	To	Recov.	No.	Unit	Description
	10 14 16 20 22 24 26 28 30 34 35					
L	19120	1925		126	5TA11	± 9 minor Hard, dk grey to black, variable siliceous, carbonaceous phyllite. Minor po, py, possible sphal. basal gtz-calcite; calc-silicate bands Intact
L	1925	1943		127	5TA10	calc silicatey ± 1 ± 9 minor. Mod hard, variably calcareous, carbonaceous phyllite. gtz-calcite-calc silicate lithology in 30% of unit. Minor diss po > py. Other lithons are gtz. Intact to slightly broken.
L	1943	1968		128	5TA11	± 9 Hard, dk grey to black siliceous phyllite. No "dolomite flash" Good, fine lithon texture w/ thin, laminated light & dk layers H S, light bands quartz. locally removes metal. Identical to non-calcareous, non-calc silicatey sections of last unit Core mod. broken to poker chippy, basal rubble & gung locally recovery problem. 75% recov. overall. Gauge TND.
L	1968	1969		129	5B140	0 (??) [425 6 minor] [344 8 3] Mod hard, musc > chlorite, gtz phyllite. Minor calcite. Lithon texture. Cannot relate to usual lithologies. Broken & poker chippy

broken like /
doesn't remove
metal yet very
hard.

Code	From		To		Recov.		No.		Unit		Description
	10	14	16	20	22	24	26	28	30	34	
336.1			111013					1310	5A119		Hard to med hard, siliceous carbonaceous phyllite to carb g shale with po > py. Sulph heavily dissem in granular glassy bands giving rock a 4A texture. Similar to above 5A1's only not quite so hard. Characteristic light grey / dk grey striping - in many siliceous phyllites. Good fine lithone structure - approaches P52 with fine laminas - lithone parallel S ₁ . 1075-1080 - softer and paker chippy. Core intact. Only local "kalamite flock" - mainly in last 30'
337.6	L		111018						3G41		Bie. light to med. silvery green & light brown banded, retrograded looking schist. Good silvery green musc-chlorite folia. Ben bands related to biotite occurrence. Some sections (green) could have been calc-silicates. Can't assign formation Intact Not typical Vangardan Upper contact is drilled away - probably relatively sharp. Few slickens. Bad preser of core w/ dk chlorite no major fault indicated EOH

Structural Log

Date: July 10/84 Logged By: G.A.J./KCP

Code	From		To		Feature	S/E	S ₀		S ₁		S ₂		Description	
	10	14	16	20			Dip	Direct.	Dip	Direct.	Dip	Direct.		
	10	14	16	20	22	24	26	28	32	34	38	40	44	
S				15	30				110	010	10	515		S ₁ very steep 10/180 to
S				18	90				110	18	0	715		S ₁ very steep 20/000
S				11	120							65		CS ₂ → PS ₂
S				11	140							713		CS ₂ → PS ₂
S				11	820							610		CS ₂ → PS ₂
S				12	1180							610		
S				12	410							60		PS ₂ → CS ₂
S				12	600							60		PS ₂ → CS ₂
S				12	920							518		CS ₂ → PS ₂
S				13	140							612		
S				13	410							715		
S				13	7150							512		
S				14	030							413		
S				14	280							515		
S				14	890							810		
\$				14	890							415	21910	post S ₂ crenulations cleave
S				14	6180							715		PS ₂ → CS ₂
S				15	0150							615		
S				15	1160							615		
S				15	630							715		
\$				15	630				318	3510				post S ₂ crenulations cleave
S				15	8180				710	010	0	610		
\$				15	8180				215	010	0			post S ₂ crenulations cleave
S				16	0125							80		
\$				16	0125				413	11810				post S ₂ crenulations cleave
S				16	245							78		
\$				16	245				512	11810				post S ₂ crenulations cleave
S				16	5100							815		
\$				16	5100				415	21715				post S ₂ crenulations cleave
S				16	620							60		
\$				16	620				410	11810				post S ₂ crenulations cleave
S				16	940							810		
\$				16	940				215	010	0			post S ₂ crenulations cleave
S				17	4160							810		
\$				17	4160				410	01910				post S ₂ crenulations cleave
S				17	690							615		

FEET!

FAULT

DDH C.N.R. 7.6.0.2
2 8

Cyprus Anvil Mining Corp.

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REC Structural Log
UPPER MIDDLE LOWER

Date: July 15/84 Logged By: KCP

Code	From		To		Feature	Dip			Description
	10	14 16	20	22 24 26 28		S ₀ Dip Direct.	S ₁ Dip Direct.	S ₂ Dip Direct.	
F	11015	5	11070	21B					brken - no signif. faults
F	11019	0	11410	5 BIRT					brken, locally rubbly & poker chippy
F	11410	5	11750	G					gauge IND
F	11750	0	11950	21B					mod brken
F	11950	0	12050	21BR					mod. brken to rubbly
F	11410	5	11950	P 5					poor recov 139-181 x 50% recov
F	12018	0	12019	5 Q1					qtz-carbonate vein
F	13110	5	131130	B1					brken - recovery OK
F	13113	5	13511	0 21B					mod brken - no major faults
F	13512	5	139100	21B					mod brken
F	14106	0	14219	0 21B					mod brken
F	14219	0	14616	0 F31B6					fault, v. brken, 60% recovery
F	14510	0	14610	0 21G					considerable IND gauge fractures 20° C.A.
F	15101	0	151018	0 21B					mod brken, minor IND gauge
F	15114	0	15215	0 21B					mod brken w/ local rubble
F	15215	0	15218	0 F31R					rubble & IND
F	15218	0	16110	0 11B					mod brken to intact
F	16213	0	16616	0 11B					intact to mod brken
F			16214	0 11X1Q					small bra vein 25° to C.A.
F	17710	0	17800	0 RIG					brken rubbly w/ 40% IND gauge
F	17810	0	18102	0 21BR					mod brken w/ local rubble
F	17710	0	18102	0 P 7					75% recovery
F	19125	0	19143	0 11B					intact to slightly brken
F	19143	0	191618	0 21BIT 7					mod brken to poker chippy
F	19143	0	191618	0 11GR					local rubble & gauge IND - 75% recovery
F	191618	0	191619	5 BIT					brken & poker chippy
									EOH

DIAMOND DRILL RECORD

 LOGGED BY STANLEY B. REAMSBOTTOM

 D. D. H. No 76-2

 PAGE 1

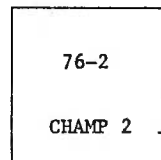
 PROPERTY VANGORDA MINES
(Drilled by C.M.R.)

 LATITUDE 8S STARTED JULY 20, 1976

 DEPARTURE 16W COMPLETED JULY 27, 1976

 ELEVATION 3875 ft PROPOSED DEPTH OPEN
 ULTIMATE DEPTH 1108 ft

HOLE SURVEY:		
DEPTH	BEARING	DIP
0		- 90°


 CLAIM No CHAMP 2

 DIRECTION AND DISTANCE
 FROM N.E. CLAIM POST

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x			
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
0	42 ft	OVERBURDEN														
42	105	GREEN & WHITE STRIPPED CH-CALCITE-TALC SCHIST. Probably meta-tuff or volcanic. White cc-talc rich laminae (0-0.5cm) alternate with green ch-rich laminae. Cc is possibly inter plagioclase? Note F ₁ F ₂ relationship. F ₁ mainly parallel to core. CA: 60, F ₂ =65; 80=F ₁ sub-v, F ₂ 70, 100=F ₁ sub-v, F ₂ 61.	98%													
105	110	GREY-IMPURE-LIMY PHYLLITE Quite rich in dark-gray cc xtals.														
110	1103	THICK SECTION OF BLACK-STRIPPED QUARTZ-GRAPHITIC PHYLLITE Thin (1-2mm) qu-laminae alternate with black graphitic laminae F ₂ foliation is dominant throughout section. Local small-scale F ₂ fold noses. Blebs and stringers of Po and Py throughout section. Stringers of Sphalerite at 394-95' at 561 with Po in F ₁ laminae; at 564' similarly with po;	2		120	130										

Ch-cc-scst unit probably sub-vertical

