

CONDENSED GEOLOGIC LOG

<u>DDH J1</u>	L 132 W, 13 N, 90°, BQ, Recovery 97.5% Started June 2, 1970, finished June 20, 1970.
0 - 14	Overburden (casing to 17 feet)
14 - 27	Banded amphibolite, 3% pyrrhotite.
27 - 36	Calcareous quartzite.
36 - 78	Skarn with phyllite bands, 5-10% pyrrhotite with minor chalcopyrite, sphalerite and/or Galena at 37.5, 49.5-50, 52.2, 54.4, 55.5, 56, 56.5, 56.7, 57, 60.5 and 72-73.
78 -118	Skarn with decreasing phyllite, less than 3% sulfides.
118-136	Phyllitic calcareous quartzite, about 5% sulfides.
136-144.5	Brecciated greenstone with some pyrite.
144.5-207.5	Phyllitic quartzite, in part calcareous with skarn bands. 20-25% sulfides, pyrrhotite, pyrite, chalcopyrite and minor sphalerite and galena.
207.5-230.5	Quartz diorite with up to 5% sulfides, chiefly pyrrhotite.
230.5-260	Phyllitic quartzite with skarn bands, some sulfides.
260-264	Skarn.
264-276	Phyllitic quartzite with minor sulfides.
276-325	Skarn with 3-10% sulfides, chiefly pyrrhotite.
325-334	Breccia, altered phyllitic quartzite and quartz veins, up to 10% sulfides.
334-390	Skarn with phyllitic layers and disseminated pyrrhotite; galena at 362 and 375.5.
390-411	Phyllite with some quartzite layers.
411-420	Quartz diorite porphyry, disseminated pyrrhotite.
420-442	Phyllitic quartzite with disseminated pyrrhotite and chalcopyrite, sphalerite at 420.5.
442-473	Amphibolite with disseminated pyrrhotite and chalcopyrite.
473-506	Phyllitic quartzite with disseminated pyrrhotite and chalcopyrite.
506	End of hole.

CONDENSED GEOLOGIC LOG

<u>DDH J2</u>	L 140 W, 10 N, 45° N, BQ, Recovery 92%. Started June 20, 1970, finished July 1, 1970.
0 - 17	Overburden.
17 - 25	Phyllitic quartzite, broken and oxidized.
25 -110	Quartz diorite, porphyritic in part, accessory pyrite.
110-113.5	Contact zone between quartz diorite and skarned phyllite with calcareous quartzite.
113.5-122	Skarn with minor pyrrhotite and chalcopyrite; galena at 120.7.
122-157	Phyllitic quartzite, minor sulfides; galena and sphalerite at 156-157.
157-176	Skarn; up to 20% pyrite, pyrrhotite, chalcopyrite and minor lead-zinc.
164-166	Sphalerite and galena.
176-179	Altered quartz diorite.
179-201	Skarn with some galena and sphalerite.
186.7-188.3	20% pyrite; galena and sphalerite.
201-306	Quartz diorite with pyrite and pyrrhotite.
306-345	Phyllitic quartzite with pyrite, pyrrhotite and chalcopyrite; galena at 321.6.
345-370	Dark green massive quartzite, with some skarn and marble.
370-399	Skarn with less than 5% sulfides.
399-452	Fault zone with breccia, gouge, phyllite and quartzite.
452-495	Calcareous quartzite with some skarn; only minor sulfides.
495-527	Phyllitic quartzite with skarn bands, minor sulfides.
527-538	Fault zone, breccia, gouge, minor sulfides.
538-591	Phyllitic quartzite with some skarn; up to 15% sulfides; sphalerite at 568.
591-670	Phyllitic quartzite and much inter-bedded skarn, minor sulfides.
670-705	Dark quartzose phyllite, 15-25% disseminated pyrrhotite and chalcopyrite, some pyrite.
705-756	Phyllitic quartzite and inter-bedded skarn; about 5% sulfides.
756-794	Dark quartzose phyllite, less than 5% pyrrhotite.
794-850	Phyllitic quartzite and inter-bedded skarn, less than 5% pyrrhotite.
850-858	Dark quartzose phyllite.
858-895	Fault zone in phyllitic quartzite, brecciated; sphalerite and galena at 859-861.5.
895-921	Phyllitic quartzite with skarn bands; 5% pyrrhotite and pyrite.
921-939	Fault zone; calcareous quartzite and skarn.
939-974	Skarn and phyllitic quartzite, minor sulfides.
974-997	Thin-banded phyllitic quartzite, about 5% sulfides.
997	End of hole.

CONDENSED GEOLOGIC LOG

DDH J3

L 163 W, 20 N, 90°, BQ, Recovery 91%.  
Started July 2, 1970, finished July 12, 1970.

0 - 4 Overburden.  
4 - 18 Dark phyllite, disseminated pyrite and pyrrhotite.  
18 - 80 Phyllitic quartzite, minor sulfides.  
80 -136.5 Phyllitic quartzite with some skarn and breccia; minor sulfides; sphalerite and galena at 120.7-121.2.  
136.5-167 Dark phyllite; shearing.  
167-187 Dark greenstone (?); disseminated pyrrhotite.  
187-210 Quartzose phyllite; disseminated pyrrhotite.  
210-248 Skarn, some marble, galena and sphalerite disseminated and in bands from 227-244.5.  
248-254.5 Fault zone; breccia and quartz veining.  
254.5-271 Phyllitic quartzite; disseminated sulfides.  
271-283 Marble.  
283-289 Phyllitic quartzite.  
289-311 Calcareous phyllitic quartzite; galena and sphalerite at 300', sphalerite at 303-306.5.  
311-369 Phyllitic quartzite.  
369-379 Fault zone in phyllitic quartzite.  
379-521 Phyllitic quartzite; disseminated pyrrhotite up to 15%.  
521-596 Phyllitic quartzite with skarn bands; locally brecciated.  
596-700 Skarn, disseminated pyrrhotite.  
700-770 Phyllitic quartzite, disseminated pyrrhotite.  
770-999 Skarn with marble bands.  
999 End of hole.

CONDENSED GEOLOGIC LOG

DDH J4 L 146 + 75 W, 66 N, 90°, BQ, Recovery 94%.  
Started July 20, 1970, finished July 25, 1970.

0 - 12 Overburden.  
12 - 24.5 Phyllite.  
24.5-48.5 Phyllitic quartzite, some skarn layers.  
48.5 - 82 Phyllite with some phyllitic quartzite and skarn; galena at 56.2 in skarn band, minor pyrrhotite.  
82 -109 Phyllitic quartzite, some pyrrhotite and chalcopyrite.  
109-155 Phyllite with some phyllitic quartzite, some pyrrhotite.  
155-170 Quartz-rich granite.  
170-240 Phyllitic quartzite, minor pyrrhotite.  
240-274 Granite with minor pyrite.  
274-290 Skarn.  
290-320 Phyllitic quartzite with minor pyrrhotite.  
320-331 Granite.  
331-390 Skarn with inter-layered marble; galena and sphalerite at 334 and 335.  
390-408 Phyllitic quartzite with minor pyrrhotite.  
408-431 Marble.  
431-506 Skarn with some pyrrhotite.  
506 End of Hole.

Supplies were hauled in on an Athey Wagon towed by the D7E Bulldozer (see Photos #1 and #2). This tracked vehicle proved very useful in the mud conditions encountered.

The bulldozer was also used about 10 hours in bed-rock trenching and bedrock road cut. Approximately 1600 feet of trenches were cut, chiefly near L.148 W, 12 N to 16 N.

The Caterpillar D6B bulldozer to be furnished by the drill contractor did not arrive until June 26th, so the D7E was kept on the property until the D6B arrived and was used a total of 125 hours for drill moves and hauling supplies.

C. Diamond Drilling

A total of 3008 feet of BQ Wireline Diamond Drilling was completed on the property in the period from June 5th to July 25th, by Artic Diamond Drilling Ltd., of Whitehorse, using a Longyear Model 38 Drill.

Eight primary drill targets were selected on the basis of the gravity anomalies, I.P. survey and detailed geologic mapping, the intention being to thoroughly test the main Anomaly "A" and dependent on results to test the other large Anomaly "B".

Anomaly "A" was tested by three drill holes. J-1-70 at L.132+00 W 13+00 N was drilled to 506 feet vertical and intersected calc-silicate skarn with very minor mineralization, bottoming in phyllitic quartzite.

J-2-70 on L.140+00 W 10+00 N at 45° azimuth 030° was drilled to 997 feet, quartz diorite dykes were cut near surface and several large scale fault and shear zones occurred at depth. Again calc-silicate skarn with minor mineralization was cut, the main rock type however, was phyllitic quartzite.

J-3-70 on L.163+00 W 20+00 N, vertical was drilled to 999 feet, mainly in phyllitic quartzites but with increasing calc-silicates with depth, marble being cut around 270 feet depth. Minor mineralization associated with calc-silicate skarn was noted.

J-4-70 was drilled on Anomaly "B" in the area of the gravity high, to 506 feet depth. A thick phyllite sequence going to phyllitic quartzite and calc-silicate skarn was cut, again minor mineralization in the skarn zones was noted.

Because of the results obtained, further drilling was not considered feasible at this time and the contract was terminated.

D. Magnetometer Survey

Mr. John Morris, under the direction of the writer, ran approximately 16 line miles of magnetometer survey over gravity anomalies A and B. Lines covered were L.100+00 W to L.196+00 W.

The survey showed magnetic variations of less than 100 gammas over the entire area covered, as shown in Fig. IV, and it appears that magnetic surveys are not a useful exploration tool on the Hill-Rust property.

E. Geologic Mapping

Reconnaissance geologic mapping was carried out by Dr. Harold Linder and the writer over the gravity survey cut lines for a total of 30 line miles of traverse.

Sparsity of outcrop lead to interpretation and correlation difficulties, shown in Fig. III, Geologic and Gravity Anomaly Map.



# DIAMOND DRILL RECORD,

HOLE NO. LR-1

PROPERTY LORNA

SHEET NUMBER 2 SECTION FROM 420 TO 576 STARTED \_\_\_\_\_  
 LATITUDE \_\_\_\_\_ DATUM \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 DEPARTURE \_\_\_\_\_ BEARING \_\_\_\_\_ ULTIMATE DEPTH \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_ PROPOSED DEPTH \_\_\_\_\_

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
172-420		Banding is generally very regular but some												
Contd.		small sections are strongly contorted.												
		Gradational contact between greenstones												
		and bronze-mica schist.												
420-470		Chloritic phyllite, dense, dark green to												
		grey green colour, frequent disseminated												
		black clots possibly amphibolite. Gradational												
		contact between bronze-mica schist and												
		phyllite.												
470-576		Greenstone, generally massive, mottled grey												
		green colour with black clots possibly												
		amphibolite, frequent to abundant diss.												
		pyrrhotite, <sup>occ.</sup> pyrite, numerous tiny black												
		specks <sup>could</sup> be magnetite. Very magnetic.												
		Occasional calcite veins. Gradational												
		contact between phyllite and greenstone												

Suspended drilling until spring. Casing left in hole

LORNA DIAMOND DRILL HOLE LR-1

Foliation and Fractur Angles

<u>Depth</u>		<u>Angle</u>
0-140'	Overburden	
143'		10°
145'		10°
150'		10°
155'		10°
160'		10°
165'		10°
170'		10°
172		30°
176'		30°
180'		20°
181'		30°
184'		30°
189'		20°
192'		30°
194'		30°
198'		30°
200'		30°
203'		30°
210'		30°
213'		30°
219'		30°
220'		30°
225'		25°
230'		30°
232'		20°
234'		20°
236'		65°
238'		30°
240'		25°
242'		10°

<u>Depth</u>	<u>Angle</u>
244'	10°
247'	5°
250'	15°
252'	20°
253'	0°
254'	45°
257'	45°
259'	30°
262'	25°
264'	20°
266'	5°
268'	10°
271'	20°
274'	30°
276'	35°
277'	40°
280'	Contorted, 1" calcite vein
281'	45-70° Contorted with calcite veins
283'	25°
286'	20°
289'	20° very broken
292'	20°
294'	20°
296'	20°
298'	10°
300'	10°
305'	15°
307-310'	5-30° frequent variations
312'	20°
314'	5°
317'	15°
320'	0-45° contorted
323'	15°

<u>Depth</u>	<u>Angle</u>
325'	35°
325-331'	0-50° Contorted & broken
333'	45°
335'	40°
337'	Contorted
338'	Calcite vein 10 inches
339'	5°
342'	0°
346'	5°
348'	0°
349'	Contorted
350'	0°
353'	5°
357'	0°
360'	20°
363'	5°
366'	40°
368'	0-80° Contorted
370'	20°
372'	45°
376'	45° Contorted
380'	0°
383'	0°
386'	10°
390'	0°
393'	0°
396'	5°
399'	0°
404'	5°
406'	Contorted & broken
409'	0°
414'	5°

<u>Depth</u>	<u>Angle</u>
420'	40°
427'	35°
431'	40°
433'	40°
436'	35°
438-470'	Massive, no distinct foliation
472-484'	Massive
485'	60° 5 calcite veins 1/8" to 1/2" wide
487-492'	90° Several braided calcite veins
492-518'	0° Almost massive
518-527'	0° Almost massive, very broken
527-576'	Massive

CYPRUS ANVIL MINING CORPORATION

DIAMOND DRILL CORE LOG

Hole Number: 77 LA-2

Fabric Orientation Diagram:

Project: Lower Anvil Joint Venture

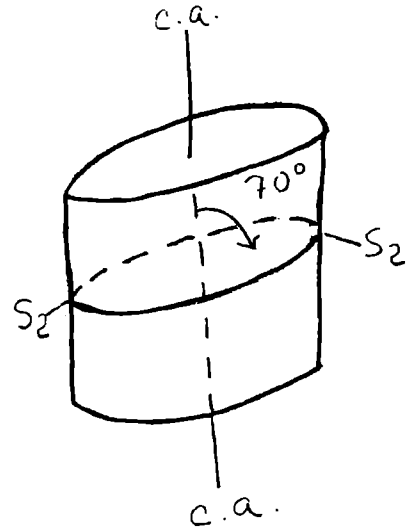
Location: Lower Anvil Creek

Claim: Aro 24

Terr. Plane  
Co-ords.: \_\_\_\_\_ N

\_\_\_\_\_ E

Grid  
Co-ords.: L48W, 57+50N



All symmetry determinations looking

NW with S<sub>2</sub> dipping

SW with dip azimuth \_\_\_\_\_.

Elevation: Approx. 2,900'

Total Depth: 337.11 M

Purpose: To test Gravity and Turam Anomalies.

Logged by: G. D. House

Date(s) Logged: 11, 12, 13 September, 1977

Drilling

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

BQ 95.1 M 337.11 M

Started: 26/08/77

Completed: 12/09/77



Code	From	To	Unit	Code	Description	
1	10 14 16 20	22 23 25 27				
L	00	95	1 1	#	Overburden and casing. Bedrock from 80.8 M - cased to 95.1 M.	
L	95	97	0 2	1,C,7	Contorted S <sub>2</sub> , broken ground, staurolite.	
L	97	100	0 3	1,C,7	Knots garnets, light brown.	
L	100	103	0 4	1,C,7	Garnets.	
L	103	104	0 5	0,Q,0	Muscovite, pyrite in quartz vein, 75° to core axis.	
L	104	106	0 6	1,C,8	Mixed 1C1, S <sub>2</sub> at 0-5°, broken ground.	
L	106	110	5 7	1,C,7	Contorted S <sub>2</sub> .	
L	110	111	5 8	1,C,1	Quartz-feldspar-muscovite-garnet "quartzite".	
L	111	116	5 9	1,C,7		
L	116	116	0 4	1,0	Quartz vein, 80°, garnets.	
L	116	132	0 1	1,C,7	Garnets.	
L	132	135	0 4	1,C,8	Fine-grained, chloritic, garnets in veins.	
L	135	142	0 1	3	1,C,7	Lost core 136.3-136.6. Contorted S <sub>2</sub> , biotite knots, pyrite associated S <sub>2</sub> planars from 137 M.
L	142	144	0 1	4	1,C,8	Contorted S <sub>2</sub> .
L	144	148	0 1	5	1,C,7	Pyrite on S <sub>2</sub> planars, garnets, chlorite.
L	148	148	0 9	1,6	1,C,1	Quartz-feldspar-muscovite "quartzite", altered.
L	148	151	0 7	1,7	1,C,7	Minor quartz planars to S <sub>2</sub> .
L	151	155	0 1	8	1,C,7	Contorted S <sub>2</sub> , minor bands to 0.2 M 1C8.
L	155	160	0 7	1,9	1,C,7	Much decreased staurolite, minor garnets.
L	160	164	0 2	0	1,C,8	Mixed chlorite and biotite schist.
L	164	167	0 4	2,1	1,C,7	Minor garnets.
L	167	167	0 6	2,2	0,Q,0	Quartz vein.
L	167	176	0 4	2,3	1,C,7	Contorted S <sub>2</sub> , pyritic.
L	176	178	0 8	2,4	1,C,7	Altered, chloritic sericitic, gougey? Quartz-muscovite vein 179.4-179.7 M.
L	178	185	0 2	5	1,C,7	Contorted S <sub>2</sub> .
L	185	186	0 2	6	1,C,7	To 1C8 in parts, associated quartz veining, altered, chloritic, pyrite.
L	186	188	0 2	7	1,C,7	Quartz veining part S <sub>2</sub> , pyrite, chlorite.
L	188	199	0 2	8	1,C,7	Pyritic, minor quartz veins cross-cutting S <sub>2</sub> planes, chloritic 195-196 M.
L	199	200	0 2	9	0,E,8	Hornblende-quartz-feldspar intrusive, dyke, fault bounded.

## Lithologic Log

Code	From	To	Unit	Code	Description
	10 14 16 20 22 23 25 27				
L	210100	210111	310	1C18	Sheared, broken ground to 200.2, siliceous and chloritic pyrite.
L	210111	210164	311	1C17	Increased biotite-muscovite, pyritic, siliceous.
L	210164	210182	312	1C18	1.1 M recovery, lost core. Chloritic alteration, broken ground, FAULT.
L	210182	210192	313	1C11	Very pyritic, BROKEN GROUND, FAULT GOUGE AND ALTERATION.
L	210192	211000	314	1C17	Pyritic, ALTERED, GOUGE, VERY BROKEN, FAULT ZONE.
L	211000	211115	315	1C17	LOST CORE, NO RECOVERY.
L	211115	211136	316	1C18	Slightly pyritic, broken ground.
L	211136	211143	317	1C18	Gougey, altered, pyritic.
L	211143	211162	318	1C18	Less gougey, pyritic.
L	211162	211170	319	1C18	Pyritic, GOUGE.
L	211170	211195	410	1C18	More solid, quartz veined.
L	211195	212300	411	1C17	Pyritic, altered, chloritic, healed shear zone?
L	212300	212577	412	1E12	Muddy gouge at 223.7 M, very pyritic.
L	212577	213322	413	1C17	Very pyritic.
L	213322	213338	414	1C18	Fine grained, chloritic (alteration around dyke?).
L	213338	213688	415	0D18	LOST CORE. 0.2 M recovered, very fine grained, pink garnets.
L	213688	213800	416	0D18	LOST CORE, GROUND, BROKEN GROUND, PEBBLES 10D. 0.8 M recovered.
L	213800	213855	417	1C17	0.2 M recovery, LOST CORE, BROKEN, RUST, FAULT ZONE.
L	213855	214033	418	1C15	Coarser S <sub>2</sub> layering, banding, increased quartz-feldspar.
L	214033	214233	419	1C18	FAULT ZONE, QUARTZ-FELDSPAR-CHLORITE VEINED, FILLED.
L	214233	214355	510	1C17	BROKEN GROUND.
L	214355	214600	511	1C17	Healed shear zones - quartz filled, 25° to core axis at 244.6, 244.5, 246.0 M.
L	214600	214799	512	1C17	
L	214799	214822	513	1C18	Quartz-feldspar-muscovite-garnet-chlorite shear 65°.
L	214822	215222	514	1C17	Contorted S <sub>2</sub> .
L	215222	215244	515	1C18	Garnet-chlorite-muscovite filled fracture.
L	215244	215355	516	1C17	Very contorted kinked S <sub>2</sub> .
L	215355	215500	517	1C17	Siliceous, quartz-filled veins, shears, at high angles.
L	215500	215544	518	1C17	Increased staurolite.
L	215544	215622	519	1C17	Ptygmatic veining.

Lithologic Log

Code	From	To	Unit	Code	Description
	10 14 16 20 22 23 25 27				
L	2,5,6	2,5,7	4 6,0	1,C,7	Large porphyritic garnets, late, cross-cut S <sub>2</sub> .
L	2,5,7	2,5,9	5 6,1	1,C,7	Chloritic garnets, contorted S <sub>2</sub> .
L	2,5,9	2,5,9	7 6,2	0,C,0	Biotite-rich quartz-feldspar vein, shear.
L	2,5,9	2,6,1	2 6,3	1,C,7	Altered, siliceous, very contorted S <sub>2</sub> .
L	2,6,1	2,6,1	4 6,4	1,C,7	Biotitic, contorted around quartz-feldspar vein.
L	2,6,1	2,6,7	5 6,5	1,C,7	Contorted S <sub>2</sub> , late kink folds, increased disseminated garnet.
L	2,6,7	2,7,0	6 6,6	1,C,7	S <sub>2</sub> at low angles, also quartz-feldspar veins, healed fault/shear zone.
L	2,7,0	2,7,5	4 6,7	1,C,7	Altered, increased staurolite and garnet, quartz-feldspar veins and healed shears.
L	2,7,5	2,8,5	8 6,8	1,B,5	Calcareous, 1C3, margin to 1G5. TACTITE.
		2,7,5	6 6,9	1,C,4	1C3 garnets.
		2,7,6	0 7,0	1,B,3	Bands pink-brown garnets, silicated marble, calcareous.
		2,7,6	4 7,1	1,B,5	Bands biotite-garnet-marble, calcareous.
		2,7,6	8 7,2	1,B,3	Large pink garnets in marble.
		2,7,8	9 7,3	1,B,5	Bands biotite-garnet-marble, S <sub>2</sub> layers.
		2,7,9	3 7,4	1,C,3	Staurolite and garnets, soft altered.
		2,7,9	9 7,5	1,B,0	Contorted S <sub>2</sub> layers/bands garnet-marble-biotite-chlorite.
		2,8,0	5 7,6	1,B,5	Calc-silicate S <sub>2</sub> layers parallel to core axis, slightly contorted.
		2,8,1	5 7,7	1,B,5	Biotite-calc-silicate-garnet narrow S <sub>2</sub> layers.
		2,8,5	0 7,8	1,C,3	Staurolite, garnet, calcareous.
		2,8,5	8 7,9	1,C,3	0.2 M recovered, LOST CORE, GOUGE, BRECCIA.
L	2,8,5	2,8,7	4 8,0	1,C,3	BRECCIA, LOST CORE, FAULT ZONE, BRECCIA. 1C3.
L	2,8,7	2,8,8	2 8,1	1,C,3	Garnets, staurolite, shears at 35-45°, gougey.
L	2,8,8	2,9,0	4 8,2	1,C,7	Contorted, garnets, slightly calcareous.
L	2,9,0	2,9,8	2 8,3	1,C,7	Garnets, disseminated, contorted S <sub>2</sub> , calc-silicate veins at 296.5.
L	2,9,8	3,0,2	3 8,4	1,C,7	Garnets, gouge associated quartz-feldspar veins in part.
L	3,0,2	3,0,3	0 8,5	1,B,5	Massive garnet-calc-silicate-biotite layer, part S <sub>2</sub> .
L	3,0,3	3,1,9	4 8,6	1,C,7	Garnet-rich veins, disseminated garnets.

TACTITE HORIZON DETAILED



Core	From		To		Feature	E N	S <sub>1</sub>		S <sub>2</sub>		Description	
	Dip	Direct.	Dip	Direct.			Dip	Direct.	Dip	Direct.		
1	10	14	16	20	22	24	26	28	32	34	38	
S	19	5	1	10	3					6	5	
S	10	3	6	10	4	0				0		0-5° S <sub>2</sub> quartz filled fault?
S	10	4	0	10	7	0				6	5	Contorted S <sub>2</sub> , fracture at 0-5°.
S	10	7	0	11	0	6				6	5	S <sub>3</sub> dip 40° to 300° az.
S	11	1	2	11	5	7				5	0	S <sub>3</sub> dip 60° to 270° az.
S	11	6	1	13	2	0				6	5	Minor S <sub>3</sub> .
S	13	2	0	13	5	4				6	0	Fracture dip 25° to 010°.
S	13	5	4	13	9	0						Distorted S <sub>2</sub> to 139 M.
S	13	9	0	14	8	4				6	5	S <sub>2</sub> to 45° dip around quartz vein at 14
S	14	8	4	15	5	0				6	0	Contorted quartz veins, etc.
S	15	5	0	16	0	7				4	0	
S	16	0	7	16	4	0				7	0	Most contorted, 70° dip in 1C8 at 162.
S	16	4	0	16	6	1				7	0	
S	16	6	1	16	7	6						Quartz-muscovite vein, very contorted
S	16	7	6	17	2	0				7	5	S <sub>3</sub> kinks to 20 mm on S <sub>2</sub> .
S	17	2	0	17	6	4				5	0	Minor variation about 50°, S <sub>3</sub> -S <sub>4</sub> kinks to 20 mm.
S	17	7	4	17	7	7						Quartz vein, healed shear at 80°.
S	17	8	0	18	2	0				4	0	S <sub>3</sub> kink folds on S <sub>2</sub> .
S	18	2	0	18	5	0				5	0	Minor S <sub>3</sub> kink folds in S <sub>2</sub> .
S	18	8	0	18	8	1				5	0	Minor quartz veins at 50°N.
S	18	8	1	19	0	2				7	5	
S	19	0	2	19	7	3				5	0	Quartz veins cross cut at 50°.
S	19	7	3	19	9	0				6	5	Increasing quartz, siliceous.
S	20	1	1	20	6	5				5	0	Contorted S <sub>2</sub> , S <sub>3</sub> and S <sub>4</sub> ✓
S	20	6	5	21	1	5						FAULT ZONE, GOUGE ETC. at 40-50°.
S	21	1	5	21	3	6				7	5	Chloritic.
S	21	3	6	21	4	0						GOUGE, FAULT, 50°.
S	21	4	0	21	9	5				6	5	Strong S <sub>2</sub> , minor quartz veins, very minor S <sub>3</sub> .
S	21	9	5	22	3	0				7	5	Healed shear? Strong S <sub>2</sub> .
S	22	3	0	22	3	8				7	5	Carbonaceous layers, S <sub>2</sub> gouge at 223.8
S	22	3	8	22	4	3				7	5	
S	22	4	3	22	5	3				4	5	Contorted S <sub>2</sub> to S <sub>3</sub> folds.
S	22	5	3	22	6	8				5	5	

Code	From				To				Feature	E N	S <sub>1</sub>		S <sub>2</sub>		Description
	10	14	16	20	22	24	26	28			Dip	Direct.	Dip	Direct.	
S	12	27	3	22	9	0					7	0			
S	12	32	2	23	3	5					7	0			Courser banding S <sub>2</sub> .
S	12	38	5	24	0	0					6	5			
S	12	40	0	24	1	0									FAULT ZONE, DIP 35°. Healed quartz-feldspar.
S	12	41	7	24	2	3									FAULT ZONE, DIP 5-15°. Quartz healed.
S	12	43	6	24	4	5					7	0			
S	12	44	5	24	5	0					4	0			Healed shears at 40° also.
S	12	45	0	24	7	6					7	0			Contorted S <sub>2</sub> , S <sub>3</sub> -S <sub>4</sub> kink folds.
S	12	48	0	24	8	4					3	5			
S	12	48	4	25	0	2					7	0			Contorted S <sub>2</sub> , S <sub>3</sub> -S <sub>4</sub> kink folds.
S	12	50	2	25	1	8									Very contorted S <sub>2</sub> , no regular S <sub>2</sub> .
S	12	51	8	25	2	2					7	5			
S	12	52	2	26	1	5									Quartz veined, contorted S <sub>2</sub> , late S <sub>3</sub> -S <sub>4</sub> kinks.
S	12	61	5	26	5	5					6	5			Kink folded S <sub>2</sub> , late S <sub>2</sub> -S <sub>3</sub> ✓
S	12	65	5	26	7	3					7	0			Quartz veined in part.
S	12	67	3	26	8	3					1	5			Faulted, sheared, low angle S <sub>2</sub> .
S	12	68	3	27	1	2									FAULT, healed SHEAR, low angle 35-45°.
S	12	71	2	27	5	4					4	0			Quartz-feldspar veined, at 80°.
S	12	76	0	27	6	4					7	5			Banded marble.
S	12	81	5	28	5	0					6	5			Biotite-marble-garnets S <sub>2</sub> layers.
S	12	85	0	28	7	4									FAULT, BRECCIA, GOUGE, 35-50°.
S	12	87	4	28	8	2					3	5			1C3, strong S <sub>2</sub> .
S	12	88	2	29	0	4					6	0			1C7, contorted S <sub>2</sub> .
S	12	90	4	29	3	0					3	5			1C7.
S	12	93	0	29	4	0					6	5			1C7.
S	12	94	0	29	5	4					5	5			
S	12	96	0	29	7	0					6	0			
S	13	01	0	31	1	0					6	5			
S	13	10	0	31	1	3									Contorted S <sub>2</sub> , S <sub>3</sub> -S <sub>4</sub> kink folds.
S	13	13	0	31	1	5					3	5			Contorted S <sub>2</sub> , S <sub>3</sub> -S <sub>4</sub> kink folds.
S	13	15	0	32	0	0					7	0			S <sub>2</sub> planars.
S	13	22	0	32	5	0					7	0			
S	13	25	0	32	7	0					3	5			



CYPRUS ANVIL MINING CORPORATION

DIAMOND DRILL CORE LOG

Hole Number: 70 LA-1

Fabric Orientation Diagram:

Project: Tintina/Lorna

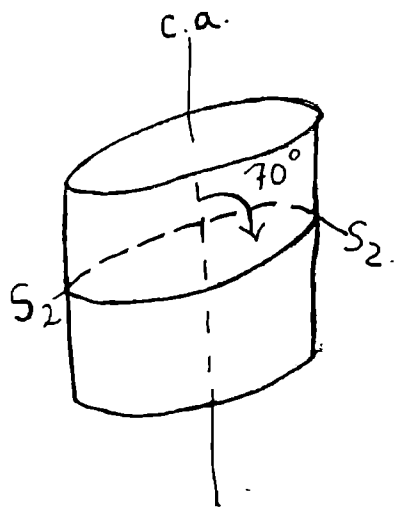
Location: Map Area C-6; 105-K-5

Claim: Lorna 29

Terr. Plane  
Co-ords.: \_\_\_\_\_ N

\_\_\_\_\_ E

Grid  
Co-ords.: L24W, 9+00N



All symmetry determinations looking

NW with S<sub>2</sub> dipping

SW with dip azimuth \_\_\_\_\_.

Elevation: Approx. 3,000'

Total Depth: 567'

Purpose: Test Gravity Anomaly with Coincident Magnetic Anomaly

Logged by: D.S. Jennings/G.A. Jilson Date(s) Logged: \_\_\_\_\_

Drilling Contractor: \_\_\_\_\_ Core: Size From To Collar Cased and Capped: Yes

B0 140 576

\_\_\_\_\_

\_\_\_\_\_

Started: 4 Nov., 1970 Completed: 6 Dec., 1970



## Lithologic Log

Logged By: DSJ and GAJ

Code	From	To	Unit	Code	Description
	10 14 16 20 22 23 25 27				
L	1 0 0	1 4 0 0	1	#	Overburden.
L	1 4 0 0	1 4 6 0	2	3 D 4	Calc-silicate.
L	1 4 6 0	1 7 5 0	3	3 C 0	Metabasite, "gabbroic" texture with prominent relict pyroxene phenos and minor pyrrhotite.
L	1 7 5 0	1 8 6 0	4	3 D 8	Calc-silicate, almost no calc-silicate or CO <sub>3</sub> bands, medium reddish-brown biotite-muscovite schist.
L	1 8 6 0	2 1 8 0	5	1 D 0	1D0 band in 3D sequence. In general, this looks like 3A9 transition zone.
L	2 1 8 0	3 0 9 5	6	3 D 4	Calc-silicate - sub-equal calc-silicate and biotite-phyllite bands.
L	3 0 9 5	3 1 4 0	7	1 D 0	3A9, similar to 186-218. Looks like transition zone at mine.
L	3 1 4 0	3 1 9 5	8	3 D 1	3D1 band with 3D4 318.5-319.5.
L	3 1 9 5	3 3 7 0	9	1 D 0	3A9 as 186-218; 309.5-314.
L	3 3 7 0	3 5 4 0	10	3 D 8	Essentially 175-186; reddish brown biotite-muscovite phyllite/schist with no calc-silicate or CO <sub>3</sub> interbands.
L	3 5 4 0	3 6 0 0	11	3 D 1	3D1 band.
L	3 6 0 0	3 6 2 0	12	1 D 0	3A9.
L	3 6 2 0	3 6 4 0	13	3 D 1	3D1 breccia, highly epidotized post-D <sub>2</sub> breccia.
L	3 6 4 0	3 6 9 5	14	1 D 0	3A9.
L	3 6 9 5	3 7 2 5	15	3 D 4	3D4 band.
L	3 7 2 5	3 8 0 0	16	3 D 8	As 175-186; 337-354.
L	3 8 0 0	3 8 2 0	17	3 D 1	
L	3 8 2 0	3 9 9 0	18	3 D 4	Sub-equal calc-silicate and biotite-phyllite bands.
L	3 9 9 0	4 0 3 5	19	3 D 1	Massive "metabasite" or calc-silicate band.
L	4 0 3 5	4 0 8 0	20	1 D 0	3A9. Finely crystalline Al <sub>2</sub> SiO <sub>5</sub> in PS <sub>2</sub> foliated carbonaceous biotite-muscovite-andalusite schist.
L	4 0 8 0	4 1 7 0	21	3 D 4	3A9. Sub-equal calc-silicate and biotite-phyllite. Excellent transition zone lithology.
L	4 1 7 0	4 3 8 0	22	3 C 0	Metabasite with relict igneous texture. This interval is interpreted as foliated margin of pre-D <sub>2</sub> and/or pre-D <sub>1</sub> gabbro or diorite.
L	4 3 8 0	5 7 6 0	23	0 G 0	Gabbro with relict igneous texture, magnetite-bearing, feldspars altered; this interval is unfoliated equivalents of 417-438.



CYPRUS ANVIL MINING CORPORATION

DIAMOND DRILL CORE LOG

Hole Number: 77 LA-1

Fabric Orientation Diagram:

Project: Lower Anvil Joint Venture  
(Cyprus Anvil/Preussag Canada)

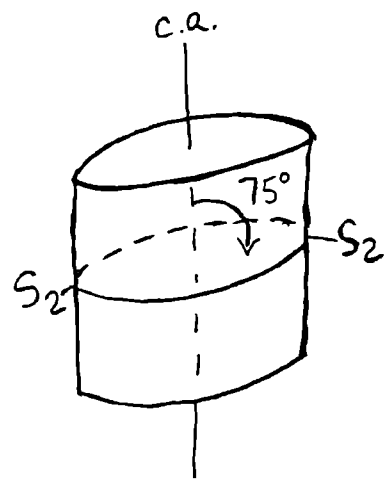
Location: Lower Anvil Creek, Map Area C-6

Claim: Gran 15

Terr. Plane  
Co-ords.: \_\_\_\_\_ N

\_\_\_\_\_ E

Grid  
Co-ords.: 152 W, 36+50N



All symmetry determinations looking

NW with S<sub>2</sub> dipping

SW with dip azimuth \_\_\_\_\_.

Elevation: Approx. 3,000'

Total Depth: 152 M

Purpose: To test Gravity Anomaly

Logged by: G. D. House Date(s) Logged: \_\_\_\_\_

Drilling Contractor: Arctic Diamond Drilling Core: Size From To Collar Cased and Capped: No

BQ 15.4 152.0

\_\_\_\_\_

\_\_\_\_\_

Started: 15/08/77 Completed: 20/08/77



