

COLLAR

North 113N  
 East 63+50E  
 Elevation -  
 Azimuth -  
 Dip 90°  
 Logged By de Chazal

1040 Top

811409

Hole No. 132-C-1-71

Commenced 12/8/71

Finished 15/8/71

Final Depth - 708 ft. Purpose Of Hole Intersection of Hypothetical Greenstone Fold Nose

DIAMOND DRILL RECORD

		DESCRIPTION	CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES			
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	% Pb	% Zn	% Mo	% Ni	CU W	
0	57	Quartzite, actinolitic with minor interbands of micaceous quartzite. F-M.Gr., well foliated  (Sl Ave 30° to core axis normal), F.G. biotite in micaceous bands (rarely showing rims around actinolite e.g. 49.8' and 54.2')  occasional clacareous interbands. No visible sulphides.  12'-2" vein quartz and pink calcite - 15'-20' actinolite increases, minor epidote, calcareous 20' - dark green to black silicate needles -  associated with pink calcite banding. 20.5-22' - biotite actinolite epidote gneiss 22-28' - actinolitic as at 15'-20' 31-31.5' - micaceous quartzite. 33' - black needles (see 20'). 39.5' black needles 41.5-43' - biotite rims around actinolite M.GR. porphyroblasts. 47.0-49' - micaceous													
57	67	Mesocratic biotite actinolite epidote quartz gneiss with M.G. blue quartz porphyroblasts. F.GR., homogeneous, foliated at 20°(Sl), finely disseminated specks of copper sulphides (?) much less than 1%, irregular quartz and calcite veining, pink calcite has in assoc. bornite, chalcopryrite and covellite(?) especially near upper contact.	56.5	58.5	2	28951	Tr	Tr	0.24	0.01	0.01	0.01	0.01		
			58.5	67	9.5	28952	Tr	Tr	0.05	0.01	0.01	0.01	0.01		



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FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	% Pb	% Zn	% Mo	% Ni	CU W
97.5	103.5	Grey calcite biotite quartz schist, well foliated, talcose(?), Sl-45° 98.5 - 2" quartz vein 11% foliated - 101 - Sl node.	98	103		28955	Tr	Tr	0.05	LO.01	LO.01	LO.01	LO.01	
103.5	192	Pyritic gst. and relatives predominantly pyritic white calcite-actinolite rock ± epidote showing 'mobilized' structure, irregular lensing of calcite and pyrite in actinolite and well foliated - banded structure. Negligible visible copper mineralization. Secondary member is a dense, light green siliceous rock occasionally micaceous and often well banded. Fine actinolite needles common.												
		103.5-110' dense member with chalcopyrite and pyrite in 1" quartz-idocrase-calcite-pyrite vein at 104-105, tight pyritic 45° fracture with minor chalcopyrite at 105.5, and 3" quartz vein about 106'. 110-114 - mobilized 112.5-113.5 - calcite rich (mobilized) with 5% disseminated pyrite and minor chalcopyrite	103	118	15	28953	Tr	Tr	0.01	LO.01	LO.01	LO.01	LO.01	
		114-120 - dense, foliated, thin micaceous bands. 120-121.5 - F.G. massive calcite-epidote-mag.-pyrite rock. 121.5-128.5 - mobilized Gst-pyrite up to 30%, minor mag., no chalcopyrite visible.	118	128	10	28956	Tr	0.02	0.04	LO.01	LO.01	LO.01	LO.01	

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FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	% Pb	% Zn	% Mo	% Ni	CU W	
		128.5-131.7 - white quartz veining, epidote, minor pyrite. 131.7-139.5 - Fg., epidote rich, disseminated pyrite up to 20%, mag. disseminated and in fractures. 134.5-135.5 - as at 121.5-128.5'. 135.5-140.5 - dense member, nearly massive to homogeneous 140.5-141 - calcite rich, vuggy, fault gouge and breccia. 141-154 - dense, grey-green, flame like calcite stringers throughout	128	140	12	28961	Tr	Tr	0.01	L0.01	L0.01	0.005	L0.01		
		154-157 - FG-epidote, white and pink calcite-pyrite-magnetite rock. F-M Gr. pyrite and mag. disseminated in swirls of calcite and calcite silicates. 157-165 - mobilized pyritic greenstone actinolitic-chloritic, pyrite in swirls up to 30%. 163-164 - white calcite-quartzite vein. 164- 1 1/2" white calcite vein.	150	160	10	28963	Tr	Tr	0.08	L0.01	L0.01	L0.005	L0.01		
		165-180 - as at 154-157 - minor pink calcite veining. 179 - 6" white quartz vein at 45° with 1/4" white calcite bands at both contacts	160	170	10	28964	0.005	0.03	0.18	L0.01	L0.01	L0.005	L0.01		
		180-192 hybrid of two major gst. types (see above description), pyritic, becoming more actinolitic with depth. 182- 6" quartz vein	170	180	10	28965	Tr	Tr	0.13	L0.01	L0.01	L0.005	L0.01		
		182-183 4 1/4" white calcite veins at odd angles. 190-191 - micaceous.	180	192		28966	Tr	Tr	0.02	L0.01	L0.01	0.005	L0.01		

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FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	% Pb	% Zn	% Mo	% Ni	CU W
192	212	Mesocratic biotite actinolite quartz feld. gneiss with minor disseminated pyrite and blue quartz porphyroblasts. Becomes more actinolitic with depth.												
212	240	Greenstone - dense, grey-green with thin flame like calcite stringers. 212-213 - contact of quartz-white-calcite-idocrase vein. 213-230.5 - no visible sulphides 230.5-231+ 20% swirls of pyrite and chalcopyrite in actinolitic greenstone. 231-231.5 - white quartz-calcite vein 231.5-240 - darker green, actinolitic, micaceous interbands. 235- minor F.Gr. disseminated chalcopyrite. 235-240 disseminated associated pyrite, pyrr. and chalcopyrite.	228	230	12	28930	Tr	Tr	0.07	L0.01	L0.01	L0.005	L0.01	
			230	240	10	28967	Tr	Tr	0.06	L0.01	L0.01	L0.01	L0.01	
240	244	Mesocratic biotite quartz-feldspar gneiss with blue quartz porphyroblasts (Augens?) minor disseminated pyrite, trace chalcopyrite homogeneous, foliated.												
244	298	Complexly interbanded quartzites, micaceous quartzites, greenstones and schists, visible chalcopyrite and disseminated pyrite. 244.5 - tight fracture with chalcopyrite - in quartzite band.	240	250	10	28968	Tr	Tr	0.02	L0.01	L0.01	L0.01	L0.01	













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Hole No. 132-C-4-71  
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FROM	TO	DESCRIPTION	CORE LENGTH				ASSAYS				ACCUMULATIVE AVERAGES			
			FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU		AU W	AG W	CU W	
		biotite schist. 107-118 - 1st predominates.												
118	128	Mica schists with minor small 1st. interbands; disseminated pyrr. trace chalcopryrite; biotite porphyroblasts frequently near top.												
128	134	Micaceous and calcareous quartzite interbands with minor white siliceous 1st. interbands.												
134	195	Mica schists and gneisses; predominately muscovite which when alone gives F.G.												
		schists (grey) and with biotite gives F.G. brownish mica schists often with coarse biotite porphyroblasts; schist interbands												
		often actinolitic, rarely with thin gst. interbands; minor disseminated pyrr. and pyrite up to 2% with quartz augens or												
		porphyroblasts.												
		143-1/2" irreg. quartz vein at 70° with minor pyrr. 145-146 thin calcite actinolite-rich												
		interbeds, with pyrr. 158.5 - 3" Gst. interbed with pyrite and pyrr. 158.5-160 -												
		quartzite porphyroblasts. 171.5 - 4" Gst. interbed with calcite, pyrr, pyrite and chalco	169	174	5	28986	Tr	0.03	0.02					
		pyrite 174-176 - quartz porphyroblasts												
		189.5 - 1 1/2" Gst. interbed with pyrr. pyrite and minor chalcopryrite. 191-192.5	185	195	10	28998	Tr	0.02	0.03					

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FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU			AU W	AG W	CU W	
		Gst. interbed with up to 30% pyrite, lesser pyrr. and chalcopryrite.													
195	263	Greenstone and relatives. Act.-epid.-calcite-chlorite-pyrite-mag-rock; variable composition; irreg. and variable structure; usually poorly to moderately foliated at best; most often shows "mobilized" structure with irregular pods, stringers, swirls and bands of various combinations of the constituent minerals; hard in dense leucocratic members with flame-like stringers (of idocrase? and calcite); very soft in dark green chloritic sections, with whole range covered between. 197-200 - clean white quartz vein with minor epidote pods. 201.5 - well developed actinolitic needles. 202.5-207.5 - biotite gneiss with disseminated pyrite; very poorly developed foliation; most biotite books randomly orientated. 212.5 - minor chalcopryrite associated with pyrr. and pyrite in dark green member 213-214 - very soft, brecciated, "mobilized".													
		215.5-217.5 - massive fine grained calcite-act.: epidote-pyrr.-mag.-rock with minor chalcopryrite and trace pyrite. 217.5-218.5 - mobilized, fractured, 20% pyrite, pyrr. &	210	220	10	28631	Tr	0.02	0.05						



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FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU			AU W	AG W	CU W	
		278-279 - pyrite and chalcopyrite totalling 5% in actinolitic section.													
		279-281 - actinolitic quartzite. 284.5-285.5 -													
		- Gst. interband with 5% disseminated pyrite and trace chalcopyrite. 286-288 - thin diffuse actinolitic bands with minor pyrite. 288-297 - actinolite poor - close to foliated micaceous quartzite. 297-298 - pyrite-pyrr. -rich with minor chalcopyrite, actinolitic	302	312	10	28627	Tr	Tr	0.05						
		311.5-312.5 - quartzite interband. 318-320 - banded quartzite noses. 320-331 - schistose													
		342-343 - micaceous quartzite (i.e. actinolite muscovite-poor gneiss). 346-349 - gneissic (discontinuous foliated compositional lenses)													
		349-366 - minor disseminated chalcopyrite, occasional pyritic band, some with chalcopyrite parallel to Sl. 362-367 - tight, steep													
		irregular fractures; slickensides pitch at 5° to 20°; if Sl. dips south, then last relative movement was dextral strike-slip, down to the	345	355	10	28641	Tr	0.02	0.08						
		west (confirmed in three places)	355	365	10	28642	0.005	0.02	0.12						
365	516	Mesocratic biotite-muscovite-actinolite-quartz-gneiss (structure as above); less biotite and	365	375	10	28633	0.005	0.05	0.04						
		more actinolite than above gives light-green coloured rock with slightly less well developed	375	385	10	28995	Tr	0.03	0.04						
			385	395	10	28993	0.005	0.04	0.05						
			395	405	10	28994	0.005	0.04	0.05						



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FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU			AU W	AG W	CU W	
592.5	605	Garnetiferous muscovite schist; medium grained; massive looking; 40-60% medium grained, massive, soft bluish-grey mineral (altered?) cleavage is either nonexistent or not visible because grains are massive aggregates of extremely fine grained material, does not react with hot or cold dilute Hcl.; 10% disseminated pyrr.; small pink garnets													
		601-603 - biotite quartz gneiss interbands with biotite porphyroblasts.													
605	610.2	White xstal. lst. - appears to have some greyish mineral as above. 605-6" white quartz vein.													
610.2	621	Banded mica schist with narrow interbands of biotite-muscovite schist and muscovite - unknown-grey mineral schist.													
621	626	Interbanded biotite-muscovite schist as above and coarse grained calcareous actinolite gneiss.													
626	635.5	Garnetiferous muscovite schist as above with unknown grey mineral disseminated pyrr. and minor chalcopyrite.	625.5	635.5	10	28636	Tr	0.02	0.01						
635.5	639	Calcite actinolite gneiss with sharp conformable upper contact and lower contact gradational over 6". Pyrr. pyrite and significant	635.5	639.5	4	28635	0.010	0.05	0.35						





















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 East 54+60E  
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Hole No. 132-C-3-71  
 Commenced 16/8/71  
 Finished 19/8/71  
 Purpose Of Hole \_\_\_\_\_  
 Final Depth - 735.5 ft.

## DIAMOND DRILL RECORD

		DESCRIPTION	CORE LENGTH				ASSAYS				ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU			AU W	AG W	CU W	
0	3.5	Casing.													
3.5	68	Mesocratic actinolite biot. gneiss and schist with blue quartz porphyroblasts or augens, minor pyrite, up to 20% blue quartz in sections, biot. often of schist proportions. 33.5-37 - open calcite-rich breccia-filled fracture at 80° to core axis normal - slickensiding pitches at 30° on fracture. 41-45 - high angle fractures as above - breccia filled 51-55 - same near vertical open breccia filled													
68	83.5	fracturing. Grey-green epidote-actinolitic quartzite and qtzitic greenstone well foliated. Gradational contact with above. 79.5 4" white quartz vein. 80-81 - unidentified red mineral 1) on fracture surface (60-70°) sheared very fine grained, metallic copper red, appears to powder on scratching. 2) disseminated in rock - looks translucent, flaky, cranberry red - may be discolouring musc. flakes.													
83.5	106.5	Mesocratic Act. gneiss as above. with blue quartz porph. 89' soft irregular grass-green Act. band followed by irreg. 4" qtz-vein	80	90	10	28940	Tr	0.03	0.02						
		92 - clean 1/4" qtz-filled fract. at 45° 93.5 -94.5 - very soft dark green band with M.GR. Mag. and vis. chalco. pods (+ minor bornite?)	90	100	10	28941	Tr	Tr	0.02						



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FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU			AU W	AG W	CU W	
135.2	155	pyrite - two 1 1/2" sections separated by mesocratic gneiss. Mesocratic gneiss with blue qtz. augens and porphyroblasts - variable composition approaching greenstone and mica schist in places. Negligible sulphides.													
155	244.5	Greenstone and relatives. Highly variable structure and comp. from dense grey-green, siliceous to epidote-rich rock, to dark green chlorite actinolite mag. rock, to calcareous sections with actinolite needles, to dense pink calc-EP-mag rocks. 157.5-161 - altered (silicified?) mesocratic gneiss. 161-165-EP-rich calc-chl-act. rock with minor py. and chalco. 165-168.5 - light grey green dense, and sub parallel calc-mafic-filled fractures at 45° from 166.5 to 168. 168.5-185 - dark grass-green EP-Act-(chl?)-Mag-cal-rock, up to 15% med. gr. mag. xstls. occasionally in vugs; very irreg. blocky structure often massive; irreg. calcite-filled fractures at all angles; minor chalco 172.5-179 - vuggy with mag filling 178.5-180- calcite with actinolite needles as fracture filling 180-185 - calcareous 185-195 - dense, grey-green, becoming													
			160	170	10	28939	Tr	Tr	0.04						
			170	180	10	28938	Tr	Tr	0.02						
			180	185	5	28937	Tr	Tr	0.06						

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		increasingly siliceous to 195, irreg.													
		mobilized structure 186-191 - 6 clean frac. at 50° with filling of calcite, qtz. and very soft green mafics; occasionally pyritic; up to 1/2" thick. 192 - irreg. white qtz vein dips in opposite direction to above. 195-208 - dense green, irreg. flame-like light green stringers throughout (increase?); minor pyrite. 202.5 irreg. cal-py-filled frac. 202.5-203 - irreg. white qtz. vein dipping opposite to above 207 - 2" qtz. vein at 10° 208.5 - irreg pink cal-qtz vein at 5° opposite to 207 - 208-240 light grey green, well fol. in part with micaceous interbands from 210 to 233, S, 25° -30°. 210.5 - 299.5 - grass green with visible disseminated chalco; mobilized; calc-rich.													
244.5	258	Leucocratic biot. -Act-qtz. -feld gneiss hybrid btn. gstone and bio. schist - well foliated at 10°. Greenstone and relatives 258-261 - dense grey green leuco member grading into following 261-274 - chl-Act. -EP-Cal-Py-rock with minor mag. - 2.5% vis chalco in some sections; massive to faintly foliated at 30°													
258	392.5	274-285.5 - leuco member - mostly well foliated at 30°, flame like stringers in last	240	245	5	28948	Tr	Tr	0.26						
			260	270	10	28932	Tr	Tr	0.15						
			270	280	10	28933	Tr	Tr	0.01						





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475	480	Actinolitic qtzite. Greenstone and relatives													
480	624	as above. 480-505.5 - light green leuco member with flame-like calcite and greenish-yellow (idocrase?) stringers; dense; trace of py. and chalco. 505.5-514.5 - stringers become more numerous and more irregular; rock becomes darker and more calcic; occasional tiny speck, of chalco.; epidote appears in bottom 2'. 514.5-526 - same	510	520	10	28950	Tr	Tr	LO.01						
		mobilized irreg. structure but becoming more and more epidote rich. 520-525.5 - calcite-epidote-act.-mag. rock with sections of 1.2% chalco and abundant py.; almost massive and homogeneous in sections. 526-542 - F.GR. massive epidote-act. rock with very finely disseminated pyrite and chalcopyrite(?), occasional irregular stringers of calcite and greenish-yellow silicates; pitted and vuggy;	520	525	5	28976	0.005	0.03	0.08						
		lower contact grades into following. 542-593 dense light grey-green leuco. greenstone with flame-like stringers - occasional large disseminated grains of pyrite - often with epidote halo + calcite + chalco. 544-545 - py. in blebs and along fractures and finely disseminated. 547 - irreg. calcite fractures	525	535	10	28977	Tr	Tr	0.02						
			535	545	10	28978	Tr	Tr	LO.01						























