ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

DIAMOND DRILL LOG

Project	WJV (IGOR)	**Grid Coordinates**	37+03 N	1+06 E	**Azimuth** 270°
Hole No.	82I025	**Elevation**	1174 m	**Total Depth** 152.1 m (499')	**Incl.** -50°
Date Started	June 18, 1982	**Date Completed**	June 21, 1982	**Logged by**	D. Heberlein

Sample No.	% Cu	ppm U	ppm Co	CPS	Core Recovery	Depth (feet)	Geology
						10	Overburden
				63			Homoclast Breccia - light grey to tan with strong foliation (40°-60° dip with respect to core axis). Fragments predominantly pale green argillite and brown to pink quartzite. They are generally rounded to sub-angular and up to 15 cm in diameter. The matrix is pervasively altered to carbonate which forms brown rhombohedral crystals. Magnetite is disseminated as euhedral grains throughout interval. Sulphides occur in trace amounts, mainly disseminated, and occasionally with chlorite in microveins. Chlorite occurs as lath like crystals up to 15 mm in length. Py <5%, Cp tr, CB 20%, Mg <5%
				65	88%	20	
				70			
26.0							
M01351	0.41	2.0	230	77		30	
31.0							
M01352	0.96	8.6	250	75			
36.0					66%		
M01353	0.05	6.1	190	77		40	
41.0							
M01354	0.44	8.8	375	77			
46.0							
M01355	0.49	6.0	280	78			Clast-Deficient Breccia - composed of magnetite 'blebs' in a carbonate, barite and chlorite matrix. The carbonate is anhedral with occasional tan coloured euhedral crystals. Barite occurs with the carbonate and in pink to white veins. Chalcopyrite is seen to replace the cores of magnetite crystals and inter-grown with them. Pyrite, chalcopyrite and magnetite veins are common.
51.0						50	
M01356	0.42	4.6	240	77	98%		
56.0							
M01357	0.56	3.1	167	75			
61.0						60	
				73	100%		

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Sample No.	% Cu	ppm U	ppm Co	CPS	Core Recovery	Depth (feet)	Geology
M01358 66.0	0.39	3.0	84				
M01359 71.0	0.17	2.8	44	76	100%	70	Clast-Deficient Breccia - with magnetite, pyrite and chalcopyrite in a barite-carbonate matrix. Py <25%, Cp<1%, CB 40%, Mg <20%
M01360 76.0	0.54	4.5	84	82			
M01361 81.0	0.10	2.6	88	76		80	
M01362 86.0	0.04	1.8	75	76	100%		Clast-Deficient Breccia - with carbonate as the most abundant alteration mineral. Tan barite occurs disseminated within the carbonate matrix. Euhedral carbonate crystals are abundant. Chalcopyrite replaces magnetite, which occurs in irregular clumps of crystals. Py 5%, Cp 1%, CB 50%, Mg 5%
M01363 91.0	0.19	2.0	81	66		90	
M01364 96.0	0.51	3.0	150	64			
M01365 101.0	0.70	2.2	99	70	100%	100	Clast-Deficient Breccia - with barite, disseminated magnetite and small amounts of sulphide in a carbonate matrix. Py ≤1%, Cp 1%, CB 40%, Mg 5%
M01366 106.0	0.01	1.5	60	70			
M01367 111.0	0.68	9.2	260	76	94%	110	Clast-Deficient Breccia - with carbonate, barite and magnetite. Magnetite ranges from <1% to 20% and occurs as euhedral crystals. Chlorite is disseminated in matrix. Pyrite occurs as disseminated grains, up to 30% in places. Py <30%, Cp 3%, CB <50%, Mg 10%
M01368 116.0	1.10	5.4	365	74			
M01369 121.0	0.47	4.8	345	80		120	
M01370 126.0	0.63	4.7	215	70			
M01371 131.0	0.98	6.1	230	70		130	
M01372 136.0	0.29	18.5	370	78			
				72			

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Sample No.	% Cu	ppm U	ppm Co	CPS	Core Recovery	Depth (feet)	Geology
M01373 141.0	0.28	27.0	515	72		140	Clast-Deficient Breccia - as previously described.
M01374 146.0	0.21	7.3	230	80	94%		
M01375 151.0	0.27	4.2	290	77		150	
M01376 156.0	0.76	3.0	220	74			
M01377 161.0	0.63	2.8	225	70	100%	160	Clast-Deficient Breccia - with magnetite and sulphides disseminated throughout carbonate-barite matrix. Veins of carbonate crosscut matrix at shallow angle (5° to 10°). Py 10%, Cp 2%, CB 40%, Mg 10%
M01378 166.0	0.27	2.0	240	62			
M01379 171.0	0.26	2.1	181	64		170	
M01380 176.0	0.11	1.8	158	72	94%		Chloritic Clast-Deficient Breccia - additional contact with previous interval. Chlorite pervasive in matrix and in microveins. Carbonate is also pervasive. Py 3%, Cp <1%, CB 20%, Mg 2-5%
M01381 181.0	0.02	1.8	59	70		180	
M01382 186.0	0.07	1.0	57	72			Carbonate-Rich, Clast-Deficient Breccia - gradational contact with chloritic breccia. Remnant outlines of altered clasts visible. Carbonate and barite pervasive. Magnetite in matrix as disseminated euhedral crystals. Sulphides are disseminated and associated with magnetite. Py 1%, Cp tr, CB 30%, Ba 10%, Mg 3%
M01383 191.0	0.13	5.8	82	68	97%	190	
M01384 196.0	0.02	1.9	66	68			
M01385 201.0	0.13	2.8	86	70		200	
M01386	0.09	2.4	95	70	96%		Homoclast Breccia - consisting of foliated, pale grey phyllites and quartzites. Contact with above mineralized breccia diffuse, and dips parallel to foliation (-70°). Poorly sorted with subangular to elongated fragments.
				78		210	

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Sample No.	% Cu	ppm U	ppm Co	CPS	Core Recovery	Depth (feet)	Geology
215.0				78			
M01387 220.0	0.07	3.0	155	76	96%	220	Typifying minerals are carbonate, chlorite and magnetite. Carbonate is pervasive with occasional euhedral grains in matrix up to 10 mm in diameter. Sulphides are disseminated. Pink barite in patches. Py 1-3%, Cp ½%, CB 20%, Ba 10%, Mg <1%
M01388 225.0	0.17	5.9	132	90 78			
M01389 230.0	0.18	15.0	156.0	80			
M01390 235.0	0.26	3.4	250		100%	230	Clast-Deficient Breccia - with magnetite and sulphides. Chlorite in microveins and as patches within the matrix. Carbonate occurs in veins up to 2 cm wide and throughout the matrix. Pyrite and magnetite are disseminated. Py 5%, Cp 1%, CB 20%, Ba 5%, Mg 5%
M01391 238.0	0.42	2.5	445				
M01503 243.0	0.07	20.0	73	80		240	
M01504 248.0	0.01	1.2	62		88%		Fault Zone - no dip measurable. Pink barite in microveins.
M01505 253.0	0.08	1.2	124	82		250	Homoclast Breccia - as above.
M01506 258.0	0.17	2.4	93	80			
M01507 263.0	0.03	2.3	49	90	85%	260	
M01392 268.0	0.58	1.4	350	84			Homoclast Breccia - pale grey to pink with subangular quartzite fragments (up to 8 cm) in a foliated, bleached argillite matrix. Although quartzite fragments usually brown to pink in some intervals they look fresh. The pale coloration due to a hard mineral (albite?). Intensity of alteration decreases down interval. Carbonate occurs in veins and throughout matrix. Pink barite generally occurs in a similar fashion to carbonate. Some carbonate veins have selvages and sometimes envelopes of pink barite. Hematite irregularily distributed in matrix and is generally fine grained specularite.
M01393 273.0	0.44	8.6	200	110	68%	270	
M01394 278.0	1.61	12.0	215	84			
M01395 283.0	1.12	96.0	122	110		280	
				90	97%		

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Sample No.	% Cu	ppm U	ppm Co	CPS	Core Recovery	Depth (feet)	Geology
				85		290	Homoclast Breccia (cont'd from Page 4)
					97%		Sulphides occur in trace amounts, magnetite decreases down interval.
				82		300	Py 1-3%, Cp 0-tr, CB 2-30%, Mg 0.5-5%, Ba tr-10%
				140		310	
				100			
				250			
				110			
				180	97%	320	
				250			
				110			
				70		330	
				75		340	
				75		350	
					96%		
				75		360	

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Sample No.	% Cu	ppm U	ppm Co	CPS	Core Recovery	Depth (feet)	Geology
				75	96%	360	Fault Zone - chloritic.
				100		370	Homoclast Breccia - as above.
				85		380	
				75		390	
				72	95%	400	Homoclast Breccia - dark grey-green with angular to subangular fragments of shale, quartzite and variously altered equivalents. Contact gradational. Matrix chloritized and weakly hematized. Specularite occurs in patches between fragments. Carbonate occurs in microveins and as occasional, tan coloured euhedral crystals in matrix. No sulphides.
				85		410	
				80		420	
				78		430	

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Sample No.	% Cu	ppm U	ppm Co	CPS	Core Recovery	Depth (feet)	Geology
				75	99 %	440	Homoclast Breccia - pale grey with subrounded and moderately sorted fragments. Chlorite is main alteration mineral and occurs pervasively through matrix. Carbonate occurs in microveins. Only trace amounts of sulphide are present.
				72		450	
				80		460	
				130			
				100		470	
							Intensly Chloritized Zone - with veins of carbonate. Possible fault.
				110		480	Homoclast Breccia - as described above.
				90	98 %	490	
				85		499	
							End of Hole.

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