Glen E. White GEOPHYSICAL CONSULTING & SERVICES LTD.

DRILL LOG

PROPERTY ?? HOLE DDH 83-4-YP 091501

GRID REF Line 0+000 NS 0+100E ELEVATION 1400 M STARTED Aug. 27 COMPLETED Sept. 1/83 DRILLER KEN SHECK

DEPTH 1105' (337m) DIP -45° BEARING S 70° E ASSAYER BONDAR - CLEGG LOGGED BY FURNEAUX & White

FOOTAGE	DESCRIPTION	SECTION			ASSAYS						
		FROM	TO	WIDTH	Au	Ag	Cu	Pb	Zn		
0-16	OB & boulders										
16-168	banded, thin bedded, argillaceous L.S. -85° westerly dip rusty staining on fracture plans to 120'. rusty grey black rx bedding? @ rt. angles to core to 145' then becoming swirly fracture planes										
168-175	highly altered qtz-feldspar porphry, almost gouge material fault zone? Contact @ 168 is 40° ± to core conformable. Many pink softened feldspar vein lets to 1cm. Random orientation. PINK MATERIAL MAY BE RHODOCHROSITE										
175-258	as @ 145-168										
258-260	fault gouge with sulphides.										
260-268	brecciated L.S. entirely fragmental (to 3cm)										
268-284	arg. L.S. some fragments qtz-veining										
284-307	286-296 breccia containing many rhyolite fragments mainly a L.S. breccia with some greenstone frag. & some felsite frag. Badly pulverized 302-307 start of fault zone?										
307-315	Vuggy-feldspar qtz.porphry- highly altered with sulphides present and a distinct green color.pyrite,pyrrhotite, black sphalerite, galena Mostly as fragments.	313	315	2'	<0.002	0.51	0.01		1.10		
315-326	As @ 302-307										
326-355	Arg.L.S. some breccia frag. Swirly fracture planes random qtz-veining to 10cm in width. Some of the qtz-is mineralized. Varies from 40° to 11 to core.										

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DEPTH 1105' (337m) DIP -45° BEARING S 70° E ASSAYER BONDAR-CLEGG LOGGED BY FURNEAUX & WHITE

FOOTAGE	DESCRIPTION	SECTION FROM	SECTION TO	SECTION WIDTH	ASSAYS Au	Ag	Cu	Pb	Zn
0-16	OB & boulders								
16-168	banded, thin bedded, argillaceous Lst -85° westerly dip rusty staining on fracture plans to 120'. rusty grey black rx bedding? @ rt. angles to core to 145' then becoming swirly fracture planes								
168-175	highly altered qtz-feldspar porphry, almost gouge material fault zone? Contact @ 168 is 40° ± to core conformable. Many pink softened feldspar vein lets to 1cm. Random orientation. PINK MATERIAL MAY BE RHODOCHROSITE								
175-258	as @ 145-168								
258-260	fault gouge with sulphides.								
260-268	brecciated L.S. entirely fragmental (to 3cm)								
268-284	arg. L.S. some fragments qtz-veining								
284-307	286-296 breccia containing many rhyolite fragments mainly a L.S. breccia with some greenstone frag. & some felsite frag. Badly pulverized 302-307 start of fault zone?								
307-315	Vuggy-feldspar qtz.porphry- highly altered with sulphides present and a distinct green color.pyrite,pyrrhotite, black sphalerite, galena Mostly as fragments.	313	315	2'	<0.002	0.51	0.01		1.10
315-326	As @ 302-307								
326-355	Arg.L.S. some breccia frag. Swirly fracture planes random qtz-veining to 10cm in width. Some of the qtz-is mineralized. Varies from 40° to 11 to core.								

FAULT ZONE

Jon C. White GEOPHYSICAL CONSULTING & SERVICES LTD.

DRILL LOG

PROPERTY _____ HOLE DDH-83-4-YP

091501

GRID REF._____ ELEVATION_____ STARTED_____ COMPLETED_____ DRILLER _____

DEPTH_____ DIP_____ BEARING_____ ASSAYER _____ LOGGED BY_____

FOOTAGE	DESCRIPTION	SECTION			ASSAYS						
		FROM	TO	WIDTH	Au	Ag	Cu	Pb	Zn	Cd	Ni
355-440	Varies from L.S. breccia with qtz. & other rock frag. @ 335 to qtz.										
	breccia with Lst. frag. @ 440'. Distinctive grey & white rock.										
440-576	Some sulphide frag. 440' has 2" of sulphide fragments spal. pyrr. at										
	contact in breccia	545	551	<	0.002	0.04			0.88		
440-576	Vuggy-pale green 440-490, white 490-560, green 560-565, white 565-576,	551	561	<	0.002	0.08		0.08	0.80		
	qtz.-eye, qtz.-feldspar, rhyolite, porphry breccia fragments of arg. L.S.	561	566	<	0.002	0.04		0.02	0.06		
	all throughout 525-534 more arg. L.S. than rhyolite fracturing &										
	banding @ 40° to core scattered sulphides @ 545, arsenopyrite 6"										
	556-559 bands & chunks of sulphides (heavy arsenopyrite)										
576-602	L.S. breccia with qtz. fragments										
602-641	L.S. & qtz. breccia course fragments 4"										
641-652	banded swirly arg. L.S. with fragments of L.S. & qtz. Sulphides accom-	651	656	<	0.002	0.60	0.06		4.20	0.03	<0.01
	pany the qtz. (qtz. veinlets with pyrr. & cpy. increasing)	656	661	<	0.002	0.91	0.08		4.57	0.04	<0.01
652-666	as above but heavily mineralized. (rained out)	662	664	<	0.002	2.78	0.09	0.94	3.85		
	652 massive pyrr with spal. 30% heavy quartz-sulphides fragmental 1"	681	688	<	0.002	0.19			2.52		
666-688	as @ 641-652 - much less silica-mineralized pyrr. & sphal. swirled with (broken	774	776	<	0.002	0.20	0.03		1.75		
	less fragments	785	791	6' <	0.002	0.60	0.11		0.74		
688-785	L.S.										
785-791	heavy mineralization 785 massive pyrr. sphal. to 791				Co	W	Sn				
791-811	L.S. swirled and banded #	651	656		0.01	<0.01	<0.01				
	#	656	661		<0.01	<0.01	<0.01	-			

Ian C. White GEOPHYSICAL CONSULTING & SERVICES LTD.

DRILL LOG

PROPERTY _____ HOLE DDH-83-4-XP

091501

GRID REF._____ ELEVATION._____ STARTED._____ COMPLETED._____ DRILLER _____

DEPTH._____ DIP._____ BEARING._____ ASSAYER _____ LOGGED BY._____

FOOTAGE	DESCRIPTION	SECTION			ASSAYS						
		FROM	TO	WIDTH	Au	Ag	Cu	Zn	Cd	Ni	Co
811-812.6	Solid metal pyrr-cpy. & sphal. (minor)										
812.5-831	L.S.										
831-831.5	6" arsenopyrite										
831.5-955	L.S.	811	812.6	<	0.002	0.72	0.18	0.01			
955-967	(12'), sulphide zone	956	967	<	0.002	0.05	0.06	0.03			
		982	994	<	0.002	0.13	0.13	0.02			
967-982	L.S.	994	999	<	0.002	0.16	0.15	0.01	<0.01	<0.01	0.02 *
982-1004	(22') sulphides	999	1004	<	0.002	0.38	0.19	0.01	<0.01	<0.01	0.02 *
1004-1016	L.S.	1020	1025	<	0.002	0.06	0.15	<0.01	<0.01	<0.01	0.02 *
1016-1052	(36') sulphides L.S. banded @ 1041-1044	1025	1030	<	0.002	0.06	0.17	<0.01	<0.01	<0.01	0.02 *
1052-1105	L.S. with intermittant banded sulphides and qtz veins (vuggy) to 15cm										
END	containing sulphides Strong mineralized breccia @ 1097-1099										
	Hole still in mineral @ end. increasing thermal gradient- slight to				W	Sn					
	moderate metamorphism? *	994	999		<0.01	<0.01					
	Assays 313-315 956-967 *	999	1004		<0.01	<0.01					
	545-551 982-994 *	1020	1025		<0.01	<0.01					
	551-561 1015-1020 *	1025	1030		<0.01	<0.01					
	561-566 1029-1042										
	662-664 1044-1052				Au	Ag	Cu	Zn			
	681-688 1095-1103	1015	1020	<	0.002	0.12	0.13	<0.01			
	774-776	1029	1042		0.002	0.19	0.17	0.01			
	785-791	1044	1052	<	0.002	0.09	0.18	<0.01			
	811-812.6	1095	1103	<	0.002	0.08	0.09	<0.01			