

DIAMOND DRILL RECORD

842037

PROPERTY _____ CATARACT - EAST ZONE _____

HOLE No. _____ DDH 8301 _____

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. DDH 8301 Sheet No. 1 of 17
 Section DDH 8301 section
 Date Begun Coring July 26/83
 Date Finished Coring Aug 3/83

Lat. _____
 Dep. _____
 Bearing 125°, -60°
 Elev. Collar 1320m approx.

Total Depth 1,223 ft.
 Logged By RB, TL
 Claim Cataract 3 M.C.
 Core Size NQ with water only

Conversion Factor 1 foot = 0.305 m.

Recovery

DEPTH	DESCRIPTION	SAMPLE No.	MIN OBS. SAMPLE	M.S. No.	C.A. M.S.		
	Hole collared in bedrock, casing not used, hole plugged.	0-5	5	6	5,30,40,80		
		5-10	5	1	10		
	Definitions (1) "M.S. No." = number of mineralized	15	5	2	30,40		
	structures. This is the number of	20	5	1	20		
	veins and/or fractures containing one	25	5	3	40,45		
	or more of the following: galena,	30	4	2	10,40		
	sphalerite, chalcopyrite. Fractures	35	5	2	30,55		
	or veins with only pyrite and/or	40	5	6	30,45,60,70		
	pyrrhotite are not included. Base metal	45	5	1	45		
	sulphide structures usually contain	50	5	7	30,40,60,70		
	pyrite and/or pyrrhotite.	55	4.5	7	20,30,40,45,50		
		60	5	1	85		
		65	5	2	60,70		
	(2) C.A.M.S. = core angle of mineralized	70	5	3	35,80		
	structures	75	5	5	30,45,50,80		
0-227'	Tuff to lapilli tuff. Dark coloured, massive fragmental	80	5	9	20,25,35,55,60,70		
	material with predominant lithic fragments in the size						
	range 1 mm to 4 mm. Tuff size range: 1/4 mm to 4 mm;	85	5	5	35,40		
	lapilli tuff: 4 mm to 64 mm. Clasts are mostly accident-	90	5	0			
	al consisting of quartz, metamorphics (schist,	100	5	2	0,30		
	quartzite), sediments, and Scuzzy quartz diorite.	100-105	4.5	3	25,30		

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HOLE No. DDH 8301

DIP TEST		
		Angle
Footage	Reading	Corrected

Hole No. Sheet No. 2 of 17

Section

Date Begun

Date Finished

Lat.

Dep.

Bearing

Elev. Collar

Total Depth

Logged By

Claim

Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
0-227' (cont'd)	Scuzzy fragments occasionally up to 7 cm in diameter. Typical Scuzzy fragment sizes: 1-3 mm.						
0-24'	Section of particularly abundant Scuzzy clasts - occasionally up to 7 mm. Abundant quartz fragments - probably derived by breaking of Scuzzy quartz diorite.						
0-146'	Mineralization. Finely disseminated galena, sphalerite, chalcopyrite, pyrite and pyrrhotite. The same minerals also occur in fractures. The drill core is moderately magnetic throughout.						
0-146'	Alteration. Occasional bleaching along sulphide bearing fractures. Coarse sericite occasionally along these fractures.						
39'	10 cm wide envelope of bleaching along base metal fracture.						
61-86'	A few late fluorite bearing fractures. These cut base metal structures.						
72'	Possible accretionary lapilli.						
76-80'	Bleaching.						
98-103'	Particularly abundant Scuzzy clasts.						
111'	Intense shearing. Gouge at core angles 10, 20°						

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HOLE No. DDH 8301

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. Sheet No. 3 of 17

Lat. Total Depth
 Section Logged By
 Date Begun Bearing Claim
 Date Finished Elev. Collar Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
227' (cont'd)	121-122' Post mineral faulting. Gouged and slicken-sided sulphides. The fault cuts a sphalerite seam @ 20°. Fluorite also present.						
	128-136' Lapilli size fragments about 5 mm. Abundant "basement fragments" - Scuzzy and metamorphic clasts.						
	138-139' 1 cm wide seam of sphalerite. Minor bleaching alongside.						
	149' Massive sphalerite in 1.5 cm wide vein @ 40°						
	151-206' Large Scuzzy clasts are common -- largest 34 cm.						
	154' 1 by 4 cm pod consisting of quartz, calcite, sphalerite and chlorite.						
	199' Sphalerite seam @ 40° 0.5 cm wide.						
	146-227' Mineralization. Similar to 0-146'. Sphalerite >>galena in seams up to 5 mm. Also fine grained disseminated base metal sulphides. Locally heavy disseminated base metal sulphide e.g. 200-201'. The sphalerite occurring in seams is very dark and the disseminated variety a little lighter. Pyrite and pyrrhotite present						

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PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8301

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. Sheet No. 4 of 17 Lat. Total Depth
 Section Dep. Logged By
 Date Begun Bearing Claim
 Date Finished Elev. Collar Core Size

Recovery

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	M.S. No.	C.A. M.S.		
227' (cont'd)	as disseminations and fracture filling.						
	146-227' Alteration. Widespread pinkish non-metallic mineral of hardness about 7. Probably garnet.						
	220-227' Faulting throughout. Some slickensides. The core is very broken. Core angles typically about 10°. Chalcopyrite + pyrrhotite are slickensided.						
227-333'	Matrix supported breccia. Fragments are of aphanitic rock, medium grey, set in a siliceous ground mass.						
	Fragments contain abundant fine grained biotite and quartz. Fragments are monolithological. Few, if any, basement fragments are present unlike the pyroclastics of the hanging wall. Fragments may be either rounded or angular. Fragments are most typically in the lapilli-tuff size range (4 mm to 64 mm). Fragments typically contain very heavy disseminated sulphides - principally in the form of pyrrhotite and sphalerite. The siliceous ground mass also contains these sulphides. A few sphalerite bearing fractures also noted. Galena usually occurs with the sphalerite or in separate fractures.	105-110	5	1	40		
		115	5	3	30,35		
		120	5	7	15,20,30,45,70		
		125	5	3	25,40,50		
		130	5	1	60		
		135	5	2	0,15		
		140	5	3	0,10,70		
		145	4.5	1	15		
		150	5	1	40		
		155	5	0			

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PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8301

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. Sheet No. 5 of 17

Section

Date Begun

Date Finished

Lat. Total Depth

Dep. Logged By

Bearing Claim

Elev. Collar Core Size

Recovery

DEPTH	DESCRIPTION	SAMPLE No.	XXXXX O.F. SAMPLE	M.S. No.	C.A. M.S.		
7-333' (cont'd)	Sphalerite >> galena. Post mineral faulting in the breccia contact. The sphalerite content decreases from 304 to 333. This unit is regarded as a possible breccia pipe.	160	5	1	50		
		165	5	0			
		170	5	0			
		175	5	0			
		180	5	9	10,40,50,70,90		
		185	5	2	60,70		
		190	5	1	0		
	227-304' Heavily mineralized with sphalerite.	195	5	2	60,70		
		200	5	2	25,40		
		205	5	2	0,25		
		205-210	4	0			
	Sphalerite >> galena. Breccia fragments are loaded with sphalerite and pyrrhotite.	210-215	5	0			
		220	5	2	50,60		
		225	5	0			
	230' Heavy chalcopryrite, pyrrhotite in fractures.	230	5	2	40,50		
		235	5	1	20		
		240	5	0			
	269' Late galena bearing fracture cuts breccia fragments mineralized with sphalerite.	245	5	1	35		
		250	5	0			
		255	5	3	30,50,60		
		260	5	0			

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PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8301

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. Sheet No. 6 of 17 Lat. Total Depth
 Section Dep. Logged By
 Date Begun Bearing Claim
 Date Finished Elev. Collar Core Size

Recovery

DEPTH	DESCRIPTION	SAMPLE No.	XXIX OF SAMPLE	M.S. No.	C.A. M.S.		
7-333' (cont'd)	280' Late calcite veining. Minor fluorite.	265	5	0			
		270	5	1	70		
		275	5	4	0,20,45		
	304-333' Breccia as 227-304' except much less	280	5	6	10,25,50		
	sphalerite.	285	5	7	10,20,40,50,70		
		290	5	2	60,70		
		295	5	N/D	60,70,80		
333-343'	Dark, massive tuff-size pyroclastics. No fragments of	300	5	3	20,40,60		
	Scuzzy or metamorphics.	305	5	3	50,65		
		310	5	0			
	333-343' Mineralization. Fine grained disseminated	315	5	3	50,60,80		
	sphalerite, locally very heavy. Minor	315-320	5	2	25,40		
	pyrite.	320-325	5	2	25,50		
		330	5	1	15		
		335	4	2	30,60		
343-378½'	Light to medium grey tuff. Fragments are occasionally	340	3	1	40		
	in the lapilli tuff size (4 mm to 64 mm). The largest	345	4.5	1	25		
	fragments are subangular to subrounded. Chloritization	350	4.5	1	10		
	pervasive. Narrow chlorite - pyrite fractures	355	4	1	20		
	occasionally present. Sample etched and stained show	360	4	1	20		
	appreciable Kspar.	365	4.5	0			

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HOLE No. DDH 8301

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. Sheet No. 7 of 17
 Section Dep.
 Date Begun Bearing
 Date Finished Elev. Collar

Total Depth Logged By
 Claim Core Size

DEPTH	DESCRIPTION	SAMPLE No.	Recovery		M.S. No.	C.A. M.S.		
			WIDTH	OR SAMPLE				
3-378½' (cont'd)		370	5		1	70		
		375	5		0			
	344-353' Abundant magnetite - fractures and disseminations.	380	5		5	0,20,30,45,70		
		385	5		3	10,25,30		
		390	5		0			
	369' 9 inch section of breccia with opaline matrix	395	5		0			
		400	5		0			
		405	5		0			
	371' Two-foot fault zone. Gouge. Core angle 40°.	410	4.5		0			
		415	5		1	45		
		420	4.5		0			
	376' One half inch thick sphalerite seam @ 30°	420-425	5		2	50,80		
	386-388½' Calcite - fluorite veining.	425-430	5		1	20		
		435	5		0			
378½-435'	Dark fine grained intrusive or crystal tuff. Frequently "crackle brecciated". Minor brecciation as 227-333'.	440	5		1	80		
		445	5		1	65		
		450	5		1	45		
	Minor brecciation	455	5		3	0,30,70		
	as 227-333'.	460	5		3	30,50,70		
		465	5		3	20,60		
		470	5		2	30,60		

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DIP TEST		
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Hole No. Sheet No. 8 of 17 Lat. Total Depth
 Section Dep. Logged By
 Date Begun Bearing Claim
 Date Finished Elev. Collar Core Size

DEPTH	DESCRIPTION	SAMPLE No.	Recovery		M.S. No.	C.A. M.S.		
			WITH DIAMONDS	DIAMONDS				
8½-435' (contd)	Mineralization 378½-435'. Rare sphalerite in fractures.	475	5		2	0,20		
	Minor sphalerite as disseminations. Locally heavy	480	5		1	65		
	sphalerite in the siliceous matrix occasionally found	485	5		3	0,30,60		
	between slightly rotated fragments. Fine grained	490	5		0			
	disseminated pyrite and pyrrhotite throughout.	495	5		1	20		
		500	5		1	80		
		505	5		1	20		
	401' Galena bearing fracture cuts a sphalerite	510	5		0			
	bearing fracture.	515	5		1	40		
		520	5		1	15		
	Alteration 387½-435'. Fine grained, hard, pinkish non-	525	5		1	15		
	metallic mineral pervasive; may be garnet. The same	530	5		3	10,40,50		
	mineral also occupies veinlets.							
	424.5' Chalcopyrite in hairline fracture.							
435-462'	Breccia as 227-333' above. Fragments resemble the fine							
	grained "crackle brecciated" intrusive or crystal tuff							
	of section 378½-435'. Matrix seems a little less							
	siliceous than 227-333'.							
	Alteration and mineralization 435-462'. Similar to							
	378½-435', 227-333'. Very few mineralized fractures.							
	Sphalerite and pyrrhotite are dominant sulphides.							

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HOLE No. DDH 8301

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. Sheet No. 9 of 17 Lat.

Section Dep.

Date Begun Bearing

Date Finished Elev. Collar

Total Depth

Logged By

Claim

Core Size

Recovery

DEPTH	DESCRIPTION	SAMPLE No.	WORTH OF SAMPLE	M.S. No.	C.A. M.S.		
5-462' (contd)	Mineralization typically disseminated.						
	444' Sphalerite veinlet cuts a fragment also mineral-						
	ized with sphalerite and pyrrhotite.						
462-630'	Tuff to lapilli tuff. Most of fragments in the 2-3 mm						
	size range. Fragments range up to several cm. Again	530-535	5	1	15		
	basement fragments are plentiful as in the hanging wall	540	5	2	50		
	of the breccia zone (0-227').	545	5	3	30,50,80		
		550	5	3	40,50		
	462-606' Mineralization. Seams or fracture fillings	555	5	3	25,40,50		
	consisting of pyrite, pyrrhotite, and	560	5	7	0,10,25,50		
	sphalerite. Sphalerite content is lower	565	5	5	0,10,15,80		
	than in the breccias above. Disseminated	570	5	3	0,15,90		
	sphalerite throughout.	575	5	2	0,10		
		580	5	5	40,45,60,80		
		585	5	2	20,40		
		590	5	1	50		
	500-501' Fault gouge. No core angle obtainable.	595	5	1	55		
		595-600	5	1	55		
		600-610	10	6	10,15,50,80		
	514' Fault @ 15°. Minor slickenside development.	620	10	9	15,30,45		
	A few calcite fractures.	630	9.5	10	15,25,40		

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HOLE No. DDH 8301

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. Sheet No. 10 of 17 Lat. Total Depth
 Section Dep. Logged By
 Date Begun Bearing Claim
 Date Finished Elev. Collar Core Size

Recovery

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE % RECOVERY	M.S. No.	C.A. M.S.		
62-630' (contd)		640	9.5	8	15,25,40		
		650	10	3	50,60		
	519-520' Abundant quartzite clasts.	660	10	7	0,30,40,50		
		660-670	10	3	35,40,80		
	462-606' Alteration. Abundant fine grained, pinkish, hard, non-metallic mineral as 387.5-462' throughout. This mineral is suspected to be garnet. Local quartz veining. Quartz veins are very scarce on the surface in the East Zone area.						
	546' Quartz vein with fine grained galena. Garnet(?) occurs in the vein borders.						
	558' Sphalerite in calcite - epidote pod						
	572' Sugary textured quartz vein. Sphalerite occurs in vein edges.						
	579' 4 cm wide magnetite seam containing disseminated chalcopryrite.						
	580' Sugary textured quartz vein containing sphalerite.	670-680	10	0			
		690	10	3	20,25,30		
	606-630' Mineralization. Sphalerite common in quartz veins usually associated with pyrrhotite.	700	10	0			
		710	10	0			

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PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8301

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. Sheet No. 11 of 17

Section Dep.

Date Begun Bearing

Date Finished Elev. Collar

Lat. Total Depth

Dep. Logged By

Bearing Claim

Elev. Collar Core Size

DEPTH	DESCRIPTION	SAMPLE No.	Recovery XXXXX XXXXX	M.S. No.	C.A. M.S.		
62-630' (contd)	Quartz veins appear to become more numerous	720	10	1	50		
	with depth. As was noted, quartz veins are	730	10	4	20,25,40		
	very rarely seen on the surface in the East	740	10	8	30,40,60,65,80		
	Zone area. In the section 606-630' about	750	10	6	0,40,60,80		
	15 quartz veins (typically approx. 2 mm	760	10	5	10,20,40,80		
	thick) were noted. No galena was noted in	770	10	6	15,40,90		
	the veins.	780	10	3	30,45,80		
		790	10	5	20,25,30,60		
		800	10	0			
		820	10	4	10,50,55,90		
	606-630' Alteration. Quartz veining and chlorite	830	10	2	15,40		
	veining.	840	10	5	15,25,45,70		
		850	9.5	0			
		860	10	1	90		
	606' Pyrite, chlorite, epidote veinlet.	870	10	2	40		
		870-880	10	1	65		
	606-645' Abundant disseminated garnet as 462-606'.						
	632' Fragments appear to have a fabric @ 40°.						
	638' Pyrite chlorite veinlet.						
630-740'	Lapilli tuff. Fragment size dominate in the range 1 cm						
	to 2 cm. Fragments consist of tuff, Scuzzy quartz						

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PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8301

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. Sheet No. 12 of 17 Lat. Total Depth
 Section Dep. Logged By
 Date Begun Bearing Claim
 Date Finished Elev. Collar Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
0-740' (contd)	diorite and miscellaneous basement material such as schist and quartzite. The largest fragments in the section are 20 cm.						
630-664'	Mineralization similar to 606-630'. Minor disseminated sphalerite. The drill core is still moderately magnetic, due to pyrrhotite.						
630-664'	Alteration. Quartz veins and rare sericitic fractures occasionally noted. Chloritization of fragments.						
651'	3 mm wide quartz vein with sericitic envelope contains pyrite.						
664-738'	Few sphalerite bearing fractures. Minor disseminated sphalerite. Pyrrhotite >>sphalerite. Total sulphide overall about 1%. Traces of galena and chalcopryrite.						
688-691'	Heavy disseminated sphalerite.						
695'	Chloritized metamorphic clast contains deformed quartz vein. This is interesting since in the "schist belt" west of the East Zone boudins of quartz occur. Such quartz						

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PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8301

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. Sheet No. 13 of 17 Lat. Total Depth
 Section Dep. Logged By
 Date Begun Bearing Claim
 Date Finished Elev. Collar Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
0-740' (contd)	is geochemically anomalous for gold locally.						
	705' 40 cm clast that has been bleached						
	713' Magnetite in pyritic veinlet.						
	719' Heavy sphalerite in 2 cm wide vein. This vein is cut by quartz-pyrite veinlet 2 mm in thickness.						
	664-740' Alteration. Dark fragments in the pyroclastics are chloritized. Chlorite appears to be the dominant alteration. Also abundant hard pinkish, non-metallic mineral suspected to be garnet. Very few quartz veins.						
	719-740' Abundant sphalerite in this section of abundant hairline fractures. Many different strikes and dips apparent in unbroken core.						
740-808'	Dark lithic tuff to lapilli tuff. Fragments seem to be mostly of local volcanic material but a few fragments of basement material, e.g. Scuzzy are also present.						
	740-789.5' Mineralization. Disseminated sphalerite and sphalerite in fractures. No chalcopyrite or galena noted. Pyrrhotite throughout.						

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HOLE No. DDH 8301

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. Sheet No. 14 of 17 Lat. Total Depth
 Section Dep. Logged By
 Date Begun Bearing Claim
 Date Finished Elev. Collar Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
7-808' (contd)	While sphalerite is present throughout, the Zn content is very low. Pyrrhotite frequently occurs in fractures and is also disseminated.						
740-808'	Alteration. Weak chloritization. Minor quartz veining. Fine grained "garnet" as above.						
792-808'	Lapilli tuff. Fragments typically 0.5 cm to 3 cm. Fragments are generally tuff. Minor metamorphic fragment component. No Scuzzy noted.						
810'	Magnetite veinlet @ 70°.						
810.5'	Magnetite,pyrite,sphalerite-chlorite seam @ 8 mm at 90°.						
819'	Possible layering @ 45°.						
808-1,197'	Dark to medium coloured tuff - lapilli tuff. Weakly to moderately magnetic. Fragments of quartz and metamorphics present.						
808-821'	Weak bleaching occasionally along veins. Chlorite alteration. Sphalerite occurs as dissemination and in veinlets. More than 2% sphalerite locally; 2% pyrrhotite.						

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HOLE No. DDH 8301

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. Sheet No. 15 of 17 Lat. Total Depth
 Section Dep. Logged By
 Date Begun Bearing Claim
 Date Finished Elev. Collar Core Size

DEPTH	DESCRIPTION	SAMPLE No.	Recovery		M.S. No.	C.A. M.S.		
			WIDE OK SAMPLE	OK SAMPLE				
008-1197' (contd)	821-826.5' Weakly altered, low sphalerite.							
	834' 2 mm wide quartz veinlet containing sphalerite,							
	pyrite and pyrrhotite cuts a sericitic							
	fracture containing pyrite.							
	845-1197' Mineralization. Sphalerite, pyrite,							
	pyrrhotite and chlorite occur in veinlets.	880-890	10	3	35,50			
	953,962,967' Hard, black silicate mineral with	900	10	4	0,10,35	40		
	prismatic crystals may be tourmaline.	910	10	1	45			
		920	10	1	30			
		930	10	2	40,80			
		940	10	3	20,75			
		950	10	2	40			
	963-989' Faulting indicated by shearing @10° and	960	10	3	60			
	slickensides. Calcite veinlets are common	970	10	1	20			
	@ 0,15,25,30. ½" of gouge at 974 @ 60°.	980	10	2	10,20			
		990	10	1	60			
		1000	10	1	20			
		1000-1010	10	3	15,50			
		1020	10	4	35,50,60			
	1009' 3 mm sphalerite - pyrite veinlets @ 60°.	1030	10	3	10,45,60			
		1040	10	2	55,75			

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HOLE No. DDH 8301

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 16 of 17 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____

Recovery

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	M.S. No.	C.A. M.S.		
78-1197' (contd)		1050	10	5	10,15,35,40		
	1082' 1-2cm wide vein of sphalerite, pyrite and	1060	10	5	10,20,30,50		
	pyrrhotite @ 55°.	1070	10	0			
		1080	10	3	15,35		
	1090-1145' Sphalerite appears to pick up again	1080-1090	10	3	35,55,75		
	relative to 845-1090. Veins contain the						
	usual pyrite, pyrrhotite, sphalerite						
	association.						
	1154-1181 Alteration. Greenish alteration may be	1090-1100	10	5	25,35,40,50		
	sericite. This section is also relatively	1110	10	4	30,40,50		
	well mineralized with sphalerite -	1120	10	1	45		
	disseminated and fracture fillings.	1130	10	7	20,25		
		1140	10	7	30,34,50,75		
		1150	9	4	20,30		
		1160	10	2	10,50		
	1145-1146' Fault. Gouge and intense shearing	1170	10	2	40		
	and slickensides @ 10°, 40°.	1180	10	0			
		1190	9.5	1	15		
		1200	10	0			
		1210	10	1	10		

DIAMOND DRILL RECORD

PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8301

[illegible]

Hole No. _____ Sheet No. **17 of 17** Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____

[illegible]

DIAMOND DRILL RECORD

PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8302

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. DDH 8302 Sheet No. 1 of 10
 Section DDH 8302 section
 Date Begun Coring Aug 3/83
 Date Finished Coring Aug 7/83

Lat.
 Dep.
 Bearing 167, -45°
 Elev. Collar 1320m approx.

Total Depth 560'
 Logged By RB, TL
 Claim Cataract 3 M.C.
 Core Size NQ with water only

Conversion Factor 1 foot = 0.305m

DEPTH	DESCRIPTION	SAMPLE No.	Recovery		M.S. No.	C.A. M.S.		
			WIDTH OF SAMPLE	PERCENT				
0 - 38'	Tuff to lapilli. Abundant fragments of basement material including Scuzzy quartz diorite, schists and quartzite. Scuzzy clasts in the 2-6 cm size range common. Abundant quartz fragments, possibly due to the fragmentation of Scuzzy. Assimilated Scuzzy forms a major part of the rock. Scuzzy is a medium to coarse grained porphyritic intrusive characterized by large quartz eyes and prominent biotite books.	0-10	7.5	3	30,50			
		15	5	0				
		20	5	1	40			
		25	5	1	50			
		30	5	2	55,60			
		35	5	4	55,60,65			
		40	4.5	5	10,40			
		45	5	6	40,50,70,80			
		50	5	2	50,70			
		55	5	6	40,50,75			
		60	5	0				
	Mineralization 0-38'	65	5	5	20,60,80			
	Sphalerite, galena, pyrrhotite and chalcopyrite occur in fractures. Minor disseminated base metal sulphides between fractures. Pyrrhotite disseminated.	70	5	2	50			
		75	5	1	10			
		80	5	0				
		85	5	3	65,80			
		90	4.5	0				
		95	5	1	60			
	Alteration 0-38'. Sericite developed along mineralized fractures occasionally, e.g. 11'. Fine grained garnet as seen throughout much of 8301 absent.	100	5	1	60			
		105	5	3	20,60			

DIAMOND DRILL RECORD

PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8302

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. Sheet No. 2 of 10

Section

Date Begun

Date Finished

Lat.

Dep.

Bearing

Elev. Collar

Total Depth

Logged By

Claim

Core Size

Recovery

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	M.S.	C.A. M.S.		
38-140'	Lithic tuff with occasional fragments >4mm (<5%). Bulk of fragments <3mm.						
56-78'	Locally abundant lapilli containing concentric rings. Light grey - Possible accretionary lapilli.						
38-140'	Alteration. Fine grained pinkish hard disseminated non-metallic mineral; may be garnet and is the dominant alteration. This mineral was widespread in DDH 8301. Good examples at 39, 84-88½'. Also minor fluorite in fractures, e.g. 67-68'. Minor sericite also in fractures. Local bleaching.						
38-140'	Mineralization. Sphalerite, pyrrhotite, galena.						
	Chalcopyrite and pyrite in veins and fractures. Sphalerite and pyrrhotite are the principal sulphides. Locally galena may be more abundant than sphalerite.	105-110	5	3	20,60,70		
		115	5	2	10,90		
		120	5	1	70		
		125	4.5	0			
		130	5	0			
		135	5	1	60		
50-55'	Numerous hairline fractures containing galena, sphalerite and chalcopyrite	140	4.5	1	70		
		145	5	1	20		

DIAMOND DRILL RECORD

PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8302

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. Sheet No. 3 of 10

Section

Date Begun

Date Finished

Lat.

Dep.

Bearing

Elev. Collar

Total Depth

Logged By

Claim

Core Size

Recovery

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	M.S.	C.A. M.S.		
38-140' (cont'd)	88-140' Clasts of Scuzzy and other basement fragments particularly abundant.	150	5	1	80		
		155	5	0			
		160	4.5	0			
		165	5	0			
	108' 1.5 cm thick seam of essentially massive sphalerite @ 70°.	170	5	0			
		175	5	3	20,25		
		180	5	2	15		
	111.5' Galena in 2 mm wide quartz veinlet with pink mineral in the borders.	185	5	1	15		
		190	5	1	60		
		195	5	1	15		
	120-121' Fluorite veinlet 2 mm.	200	5	2	15,75		
		205	5	1	75		
	134.5' 1 cm wide sphalerite fracture. Minor associated chalcopryite.	210	5	3	55,75		
		210-215	5	4	20,25,70		
		220	5	1	75		
	129-136' Calcite veinlets common.	225	5	2	50,75		
		230	5	8	0,25,35,70,80		
140-207'	Lapilli tuff. Dominant fragment size >4mm. The largest Scuzzy fragment is 19 cm; 2cm - 4 cm is the dominant Scuzzy fragment size. Generally abundant basement fragments.	235	5	8	15,25,35,55,65,80		
		240	5	3	30,75		
		245	5	1	60		
		250	5	3	20,30,70		

DIAMOND DRILL RECORD

PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8302

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. Sheet No. 4 of 10 Lat. Total Depth
 Section Dep. Logged By
 Date Begun Bearing Claim
 Date Finished Elev. Collar Core Size

DEPTH	DESCRIPTION	SAMPLE No.	Recovery		M.S.	C.A. M.S.		
			WORTH OF SAMPLE	PERCENT				
		255	5	2	30,50			
40-207' (contd)	140-207' Alteration. Minor calcite veining. Sericite	260	5	6	15,35,60,70,80			
	occasionally noted along fractures, e.g. 144'	265	5	4	20,25,55,75			
	Considerable fine grained pink mineral	270	5	4	20,25,35,90			
	suspected to be garnet.	275	5	4	10,50,60			
		280	5	3	10,35,60			
		285	5	3	35,70,90			
		290	5	2	20,40			
	140-207' Weakly developed fracture controlled	295	5	11	30,50,70,75,80,90			
	sphalerite but considerable fine grained	300	5	1	70			
	disseminated sphalerite. Traces of galena,	305	5	5	0,25,30,80			
	sphalerite pyrrhotite. Low overall sulphide	310	5	2	25,90			
	content. The sphalerite content appears to	310-315	5	4	20,45,80			
	increase from about 190' to the end of the							
	section.							
	201.5' Fault @ 30°. One foot of gouge and sheared	315-320	4	4	25,30			
	rock.	325	10	3	40,60,70			
		330	5	6	25,40,50,70			
	206' Very heavy sphalerite with associated	335	5	5	0,45,50,60			
	pyrrhotite in quartz vein. Bleaching	340	5	>10	40,50			
	adjacent to this structure.	345	5	1	50			

HOLE No. DDH 8302

[illegible]

Hole No. Sheet No. 5 of 10

Lot. _____

Total Depth.....

Section..... Dep.....

Logged By.....

Date Begun Bearing

Claim

Date Finished Elev. Collar.

Core Size

Recovery

[illegible]

DIAMOND DRILL RECORD

PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8302

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. Sheet No. 6 of 10

Section

Date Begun

Date Finished

Lat.

Dep.

Bearing

Elev. Collar

Total Depth

Logged By

Claim

Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
207- 301' (contd)	207-262' Mineralization. Heavily mineralized with pyrrhotite, sphalerite; minor pyrite, galena and chalcopryrite. Mineralization occurs both in fragments and in the ground mass. Base metals as well as pyrrhotite occur in discrete fractures which cut the fragments and the ground mass, e.g. 221'. The sphalerite is very dark.						
	207-262' Alteration. Bleaching appears to be the dominant alteration. Also abundant fine grained pinkish, hard mineral seen throughout much of DDH 8301. This appears to be garnet.						
	229.5' Two veinlets @ 1 cm of massive sphalerite @ 70°.						
	260' A few fragments of quartzite						
	262-281' Fine grained tuff or intrusive medium to light grey. No basement fragments apparent.						

DIAMOND DRILL RECORD

PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8302

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. Sheet No. 7 of 10 Lat. Total Depth
 Section Dep. Logged By
 Date Begun Bearing Claim
 Date Finished Elev. Collar Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
207-301' (contd)	262-281' Mineralization. Disseminated sphalerite, pyrrhotite, pyrite, chalcopryrite and galena. The same sulphides also occupy fractures.						
	281-286' Breccia as 207-262'.						
	286-301' Medium grey fine grained tuff or intrusive. Pyrrhotite, sphalerite, galena, chalcopryrite and pyrite occur in fractures. Very little disseminated sulphide.						
301-319'	Light grey fine grained, possible tuff. Mineralized as 286-301'.						
319-329'	Dark fine grained massive. Tuff? Mineralized as 286-301'.						
329-428'	Fine grained dark, almost black, massive, containing 1 mm phenocrysts of feldspar. Andesite or fine grained diorite? Local "crackle breccia" development with abundant quartz and sericite between the fragments. Also heavy pyrrhotite and base metal sulphides -- principally sphalerite, e.g. 335-340, 345-349. Little disseminated sulphide in this section.						

DIAMOND DRILL RECORD

PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8302

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. Sheet No. 8 of 10

Section

Date Begun

Date Finished

Lat.

Dep.

Bearing

Elev. Collar

Total Depth

Logged By

Claim

Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
329-428' (contd)	366-393' Minor green epidote in fractures.						
	378' 1 cm wide calcite veinlet @ 20°.						
	383-386' Zone of intense crackle brecciation and						
	heavy silica flooding. Sharp breccia contact						
	@ 60°.						
	389-395' Crackle breccia. Dark fragments in silica						
	and sericite matrix. Heavy fine grained						
	disseminated garnet. Fragments have not						
	moved far.						
	400-422' Crackle breccia as above. Angular fragments						
	set in quartz and sericite. Fragments						
	obviously have not moved far. Lots of						
	pyrrhotite in the matrix but generally						
	sphalerite.						
	420-424' Very heavy sphalerite as disseminations;						
	heavy sphalerite in fracture at 424'.						
428-476'	Breccia containing abundant black clasts of the lithology						
	found in section 329-428' mixed with finer black clasts,						
	quartz clasts and metamorphic clasts. There are also						
	fragments of light grey tuff but no Scuzzy. Pyrrhotite						

DIAMOND DRILL RECORD

PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8302

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. Sheet No. 9 of 10

Section Dep.

Date Begun Bearing

Date Finished Elev. Collar.

Total Depth

Logged By

Claim

Core Size

Recovery

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	M.S.	C.A. M.S.		
428-476' (contd)	is much more abundant than sphalerite. Sphalerite is locally fairly abundant.						
428-430'	Quartz vein 2-3 mm thick cuts breccia. Minor sphalerite in the breccia.	460-470	10	2	70		
		470-480	10	2	70		
		480-490	10	2	30,65		
		490-500	10	1	70		
451'	Pink garnet form selvages relative to pyrrhotite - sphalerite fracture.	510	10	2	65,70		
		520	10	1	55		
		530	10	2	30,50		
		540	10	5	0,25,70,75		
471½-476'	Calcite veinlets.	550	7.5	2	50		
474'	Calcite veinlet cuts sphalerite fracture.	560	10	3	20,40		
476-560'	Lapilli tuff containing abundant fragments of Scuzzy.						
	Scuzzy fragments appear to be getting fewer with depth, so by 514' Scuzzy is scarce. The principal lapilli are dark fragments typically 2-6 cm in diameter. Fragments of schist also noted.						
	476-506' Alteration. Pervasive development of fine grained pink mineral. Hard to knife. This material is similar to suspected garnet seen						

DIAMOND DRILL RECORD

PROPERTY

CATARACT - EAST ZONE

HOLE No. DDH 8302

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. Sheet No. 10 of 10

Section

Date Begun

Date Finished

Lat.

Dep.

Bearing

Elev. Collar

Total Depth

Logged By

Claim

Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
475-560' (contd)	elsewhere in the drill target. Also Chloritization.						
476-506'	Very sparse base metal mineralization. General traces of sphalerite. About ½% iron sulphides.						
500'	Heavy sphalerite and pyrite in fracture @ 65°.						
506-560'	Alteration. Fine grained pink mineral as 476-506'. Minor quartz veining, sericite and chlorite. Minor fluorite in calcite veins.						
514-545'	Scarce clasts of Scuzzy quartz diorite.						
527'	Very heavy sphalerite in fracture.						
533-545'	A major fault occurs in this interval. Abundant gouge, shearing and slickenside development. Slickensided surfaces @ 20° and 0°. This is the most noticeable fault zone so far intersected.						
533'	Very heavy sphalerite in quartz vein. Sericitic vein border.						
560'	END OF HOLE						

DIAMOND DRILL RECORD

PROPERTY CATARACT

HOLE No. DDH 8303

DIP TEST		
		Angle
Footage	Reading	Corrected

Hole No. DDH 8303 Sheet No. 1 of 4

Section Coring
Date Begun night shift Aug. 7/83

Coring Date Finished day shift Aug. 9/83

Lat.

Dep.

Bearing 085°, -45°

Elev. Collar

Total Depth 234

Logged By R. Bruaset, T. Lee

Claim Cataract 3 M.C.

Core Size NQ with water

Conversion Factor - 1 foot = 0.305 m.

DEPTH (feet)	DESCRIPTION	SAMPLE No.	Recovery	M.S. No.	C.A./M.S.	
0-55'	Dark tuff to lapilli tuff. High percentage Scuzzy fragments. Weakly magnetic.	0-10	7	3	15,30,50	
		10-20	10	5	20,30,35,60	
	0-55' Alteration. Chlorite along fractures, sericite and epidote also present.	30	8.5	7	10,15,30,50	
		40	10	1	50	
	0-55' Mineralization. Sphalerite-galena-pyrrhotite-pyrite-chalcopyrite veinlets and occasionally the	50	10	3	15,30,70	
	above in quartz veins. Also disseminated sulphides,	60	10	9	15,20	
	vein mineralization >>disseminations. Galena seems	70	10	5	0,30,50	
	to be more abundant in the top of this hole than	80	10	4	5,40,45	
	in the tops of 8301, 8302.	90	10	4	35,60,65	
		100	10	4	55,70	
	20' Heavy galena and sphalerite in 1 mm to 1 cm. wide	110	10	4	10,23,30,50	
	veinlets.	120	10	2	25,35	
	41-56' Fine grained disseminated garnet.	130	9.5	3	10,20,50	
	46' Minor epidote in sphalerite bearing fracture.	140	10	1	10	
55-112'	Tuff as 38-140 in DDH 8302 with scarce Scuzzy clasts.	150	10	6	25,40	
	About 15% lapilli size fragments. Gradational contact	160	10	5	40,65,75	
	with the tuff to lapilli tuff above.	170	10	5	20,25,30,40	
	55-112' Alteration. Weak bleaching in short sections	180	10	6	20,30,55	
	generally associated with mineralized fractures.	190	10	3	20,30,	
	Dissem. garnet throughout.	199	9	3	20,30,60	
		201	2	2	0,30	

DIAMOND DRILL RECORD

PROPERTY CATARACT

HOLE No. DDH 8303

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. DDH 8303 Sheet No. 2 of 4

Section

Date Begun

Date Finished

Lat.

Dep.

Bearing

Elev. Collar

Total Depth 234'

Logged By

Claim

Core Size

DEPTH	DESCRIPTION	SAMPLE No.	Recovery	M.S.No.	C.A./M.S.		
55-112' (cont'd)	55-112' Mineralization. Galena-sphalerite-pyrrhotite-	201-210	9	2	0,30		
	pyrite-chalcopyrite veinlets. The bulk of the	220	10	7	10,25,45,60		
	sulphides is structurally controlled. Weakly	234	13.5	14	25,30,80		
	magnetic.						
	75-109' Round lapilli size clasts exhibit concentric						
	layering. Possible accretionary lapilli (see						
	DDH8301 & 8302 for occurrences of the same type						
	of lapilli.)						
	106-107' Faulting @70°. Calcite veinlets, slickensides,						
	minor gouge.						
112-234'	Lapilli tuff. Fragments typically 1cm to 6cm,						
	occasionally up to 40 cm, e.q. 135'. The largest						
	clasts are Scuzzy. Abundant Scuzzy throughout.						
	Clasts of quartzite and schist also recognized. No						
	accretionary lapilli. Upper contract gradational						
	over about 1 foot. Faint foliation due to biotite						
	@55°.						

DIAMOND DRILL RECORD

PROPERTY CATARACT

HOLE No. DDH 8303

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. Sheet No. 3 of 4 Lat. Total Depth
 Section Dep. Logged By.
 Date Begun Bearing Claim
 Date Finished Elev. Collar Core Size

DEPTH	DESCRIPTION	SAMPLE No.	Recovery				
			WIDTH OF SAMPLE				
112-234' (cont'd)	117-118' Faulting. Gouge, slickensides and generally intense shearing. Slickensided surfaces have core angles as 0°, 30°. Also heavy calcite veining.						
	145-234' Mineralization becoming stronger as base metal fractures become wider and more numerous. It appears that galena remains relatively abundant to depths greater than in either of the previous holes.						
	112-234' Alteration. Alteration is generally weak. Fine grained garnet is pervasive. Chloritization and sericitization locally noted in mineralized fractures. Also minor calcite veining, e.g. 168½', 171', 198'. Epidote locally present, e.g. 134-135. Minor quartz veining.						
	135' Heavy galena and chalcopryite in quartz vein with associated epidote and chlorite.						

DIAMOND DRILL RECORD

PROPERTY _____ CATARACT _____

HOLE No. _____ DDH 8303 _____

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 4 of 4 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
112-234' (contd)	146,154,167' Layering @ 50°, 60°						
	195' Galena veinlet cuts quartz-calcite veins.						
	199-201' Very heavy sphalerite and galena in 5 mm						
	seam more or less parallel to core axis.						
	213' Quartz vein containing sphalerite cuts						
	a sphalerite bearing seam.						
	210-234' Limonitic fractures.						
	232-234' Fault @ 35°. Sericitic gouge and slickensides.						
	This hole was abandoned at 234' due to encounter with						
	a sub-terranean stream. There was no water return and						
	the rods were whipping badly. The rushing of the water						
	could clearly be heard at the drill collar. Attempts						
	to block the water flow failed. In the absence of						
	BQ equipment we were unable to try to deepen the hole						
	using the NQ equipment as casing and drilling out the						
	NQ bit. The hole was pegged and probably could be						
	deepened if required. It is notable that holes 8301 and						
	8302 had both been making water up to this point but						
	for some unexplained reason stopped making water upon						
	DDH 8303 encountering the subterranean stream. (it is						
234'	unknown at what point the other holes started to make water) END OF HOLE						

DIAMOND DRILL RECORD

PROPERTY CATARACT

HOLE No. DDH 8304

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. DDH 8304 Sheet No. 1 of 10
 Section DDH 8304 section
 Date Begun Coring on Aug 16/83
 Date Finished Coring on Aug 21/83

Lat.
 Dep.
 Bearing 056, -50°
 Elev. Collar

Total Depth 558.5'
 Logged By T. Lee, R. Bruaset
 Claim Cataract #3
 Core Size NQ

DEPTH	DESCRIPTION	Interval	Recovery	M.S.	C.A. M.S.		
		SAMPLE NO.	WIDTH OF SAMPLE				
0-21'	Medium grey lithic tuff. Fragments are derived from	0-11	6	1	60		
	basement material largely including Scuzzy (minor),	11-13	2	8	10,40,50		
	quartzite and schist and Tertiary volcanic material.	13-20	7	5	0,15,45,50		
	Dominant fragment size 2 mm or less. Scuzzy fragments	20-25	5	4	15,35,40		
	up to 3 cm noted, e.g. 6'. At the lower contact, the	25-30	4.5	2	60,80		
	tuff grades into pyroclastics containing abundant Scuzzy.	30-35	4.5	1	40		
	No accretionary lapilli seen.	35-40	5	0			
		40-45	5	2	15		
		45-50	5	1	15		
		50-55	5	3	0,20,50		
	0-21 Alteration. Sericitic fractures, e.g. 18-21'.	55-60	5	2	0,15		
	Local bleaching. The degree of sericite develop-	60-65	5	3	0,15,65		
	ment appears to increase with the amount of	65-70	5	4	0,30		
	sulphide mineralization. Abundant fine grained	70-75	5	1	20		
	garnet present throughout. Quartz veins are	75-80	5	0			
	occasionally noted and these may contain galena.	80-85	5	2	40,45		
		85-90	5	2	5,60		
		90-95	5	5	20,25,40,65		
		95-98	3	3	10,25,40		
		98-105	7	3	10,30,40		
		105-110	5	0			

DIAMOND DRILL RECORD

PROPERTY CATARACT

HOLE No. DDH 8304

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 2 of 10 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
0-21' (contd)	0-21 Mineralization. Galena, sphalerite, pyrrhotite in veins. Also disseminations of the above. Cross cutting relationships of galena, in quartz veins suggest a late period of mineralization.						
	11-31 Very heavy sphalerite in a fracture parallel to the core axis. Apparent reactivation of this fracture with subsequent galena introduction.						
21-53'	Lapilli tuff containing abundant Scuzzy fragments up to 3-4 cm. High degree of assimilation of Scuzzy.						
	21-53 Alteration. Sericitic fractures locally well developed, e.g. 22-23', 36', typically with associated sphalerite. Also abundant fine grained disseminated garnet.						
	21-53 Mineralization. Very weakly mineralized.						
	29-36 Very broken core but no direct evidence of faulting such as gouge and slickensides. Drillers encountered lost circulation here which required cementing.						

DIAMOND DRILL RECORD

PROPERTY CATARACT

HOLE No. DDH 8304

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. Sheet No. 3 of 10

Section

Date Begun

Date Finished

Lat.

Dep.

Bearing

Elev. Collar

Total Depth.....

Logged By.....

Claim

Core Size

Recovery

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	M.S.	C.A. M.S.		
21-53 (cont'd)	41' One half cm wide fault zone @ 20°. Galena, sphalerite, pyrrhotite veinlet is offset by this fault.						
	71' Veinlet containing garnet and chalcopryrite.						
53-143'	Lithic tuff. Minor Scuzzy fragments. Very weakly magnetic relative to the pencil magnet. Weak mineralization. Sphalerite, pyrrhotite, galena and chalcopryrite occur together in fractures and the same minerals occur in disseminated form.						
	64-115' Abundant disseminated garnet.						
	96-106' Occasional accretionary lapilli.						
	106-112' Abundant accretionary lapilli.						
	112-123' Occasional accretionary lapilli.						
	123-143' Abundant accretionary lapilli.						
	90-98' Relatively heavy sphalerite, galena, pyrite, pyrrhotite in veinlets and as disseminations.						
	106' Abundant garnet in 8 cm section.	110-115	5	1	45		
		120	5	2	30,45		
	123' Layering @ 40°	125	5	1	45		
		130	5	1	70		

DIAMOND DRILL RECORD

PROPERTY CATARACT

HOLE No. DDH 8304

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. Sheet No. 4 of 10

Section

Date Begun

Date Finished

Lat.

Dep.

Bearing

Elev. Collar

Total Depth

Logged By

Claim

Core Size

DEPTH	DESCRIPTION	SAMPLE No.	Recovery		M.S.	C.A. M.S.		
			WIDTH OF SAMPLE					
53-143' (contd)	127' Quartz veinlet with pyrite only.	135	5	0				
		140	5	0				
3 - 558.5'	Lapilli tuff containing abundant Scuzzy clasts. Other	145	5	1	30			
	clasts included are quartzite and schist. High quartz	150	5	0				
	component is presumeable due to assimilation of Scuzzy.	155	5	0				
	Weakly magnetic.	160	5	1	35			
		165	5	1	30			
		170	5	1	20			
		175	5	0				
		180	5	1	0			
	Mineralization. Very sparsely mineralized with	185	5	0				
	sphalerite, galena, chalcopryrite. Pyrite and	190	5	5	0,20			
	pyrrhotite, estimated ½%. Minor arsenopyrite noted	195	5	0				
	215-253'; disseminations and in fractures.	200	4	0				
		205	5	2	25			
		210	5	1	30			
	Alteration. Principal alteration is fine grained	210-215	5	3	10,15			
	disseminated garnet occurring in fractures as well as							
	disseminations. Epidote is locally associated with							
	this material.							

DIAMOND DRILL RECORD

PROPERTY CATARACT

HOLE No. DDH 8304

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. Sheet No. 5 of 10

Section

Date Begun

Date Finished

Lat.

Dep.

Bearing

Elev. Collar

Total Depth

Logged By

Claim

Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
143-558.5 (contd)	165,166' Two bands a few cm thick containing accretionary lapilli. Core angle 40°. A quartz veinlet cuts the lapilli.						
	168-170' Layering @ 30°						
	183' Quartz veinlet with sericitic border.						
	185.9-190 Heavy sphalerite, galena, chalcopryrite, and pyrrhotite in veinlets.						
	188-196' Layering @ 35°						
	189' Galena in 2 mm quartz veinlet.						
	225' Arsenopyrite veinlet @ 50°						
	196-198, 199-204, 209-210' Calcite-quartz-fluorite veins @ 50° fairly common. Minor gouge development 196-198.						
	215' Minor arsenopyrite in fracture.						
	217' Minor disseminated arsenopyrite.						
	237-238' Heavy garnet and chlorite in shear zone. Minor associated arsenopyrite.						
	243' Strong layering @ 50°.						
	252' Disseminated arsenopyrite in sections of bleaching.						

DIAMOND DRILL RECORD

PROPERTY CATARACT

HOLE No. DDH 8304

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. Sheet No. 6 of 10 Lat. Total Depth.....
 Section..... Dep. Logged By.....
 Date Begun Bearing Claim
 Date Finished..... Elev. Collar Core Size

DEPTH	DESCRIPTION	SAMPLE No.	Recovery		M.S.	C.A. M.S.		
			WIDTH OF SAMPLE	OR SAMPLE				
143-558.5 (contd)	253' Minor arsenopyrite in fracture; also associated garnet.							
	263-264, 277' Minor disseminated arsenopyrite.							
	275' Slickensides @ 80°-90° 2 cm wide shear zone.							
	299' Sphalerite in garnet-chlorite-epidote veinlet @ 80°							
	324-558.5 Generally very low sulphide content. Pyrite and pyrrhotite probably 1/10%. Overall, locally much higher.	215-220	5		2	40,70		
		225	5		0			
		230	5		2	40,50		
		235	5		3	30,40,60		
	379-402' Tuff to lapilli tuff.	240	5		1	50		
		245	5		0			
	415-446' 1-2% pyrite and pyrrhotite; dissemination mostly.	250	5		1	15		
		255	5		1	70		
		260	5		1	50		
	454-558.5' Weak to moderate magnetism.	265	5		2	20,60		
		270	5		1	15		
	328' 7m wide vein @ 75° containing unidentified dark green mineral. Too hard for chlorite.	275	5		2	45,65		
		280	5		0			
		285	5		1	45		
		290	5		0			

DIAMOND DRILL RECORD

PROPERTY CATARACT

HOLE No. DDH 8304

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. Sheet No. 7 of 10

Section

Date Begun

Date Finished

Lat.

Dep.

Bearing

Elev. Collar

Total Depth

Logged By

Claim

Core Size

Recovery

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	M.S.	C.A. M.S.		
143-558.5 (contd)	346-347' Quartz calcite veinlets @ 30°	295	5	0			
		300	5	1	80		
	360.5-361.5 Heavy sphalerite, pyrite, galena in altered	305	5	2	20,55		
	zone 4 cm wide @ 25°	310	5	1	35		
		315	5	0			
	384-385' Heavy sphalerite in altered zone @ 20°.	315-320	5	0			
	404.5-405.5 Heavy sphalerite, pyrrhotite, pyrite, galena						
	@ 60°.						
	412-413' Dark fine grained lithology containing						
	abundant plagioclase laths @ 1 mm. Sharp						
	contacts. This may be a dyke equivalent of						
	the crackle brecciated units in DDH 8301 & 8302.						
	420' Heavy sphalerite, pyrrhotite in 2 mm veinlet						
	@ 20°.						
	430,441' Possible layering @ 45°						
	460-461' Shearing @ 50°.						
	478.5-481 2 mm wide veinlet semi-parallel to core contains						
	heavy sphalerite, pyrrhotite and galena. This						
	vein is cut by a late quartz vein.						

DIAMOND DRILL RECORD

PROPERTY CATARACT

HOLE No. DDH 8304

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. Sheet No. 8 of 10 Lat. Total Depth
 Section Dep. Logged By.
 Date Begun Bearing Claim
 Date Finished Elev. Collar Core Size

Recovery

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	M.S.	C.A. M.S.		
143-558.5' (contd)	509' Base metal veinlet @ 25° cut by late	320-325	5	1	35		
	quartz veinlet @ 55°	330	5	0			
		335	5	2	50,70		
	505-558' Calcite-fluorite-quartz veinlets up to 3	340	5	0			
	per foot. Core angles usually from 50-70°	345	5	0			
	Some weak breccia development locally.	350	5	1	20		
		355	5	1	65		
		360	5	2	30,40		↑
		365	5	0			NOTE
		370	5	0			Sample
		375	5	0			interval
		380	5	0			vary
		385	5	1	20		const
		390	5	2	20,30		erably
		395	5	0			
		400	5	1	40		
		405	5	3	20,30,60		
		410	5	1	40		
		415	5	0			
		420	5	3	10,120		
		420-425	5	1	20		↓

DIAMOND DRILL RECORD

PROPERTY _____ CATARACT _____

HOLE No. DDH 8304 _____

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 9 of 10 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	Recovery		M.S.	C.A. M.S.		
			WIDTH OF SAMPLE	PERCENTAGE				
143-558.5' (contd)	534-535, 538-543, 552-558' Abundant veins.	425-430	5	1	75			
		435	5	0				
		440	5	1	0			
		445	5	3	0,35			
		450	5	1	10			
	526-527' Dark fine grained rock containing 1 mm	455	5	1	10			NOTE: Sample Interva highly variab
	feldspar phenocrysts. Upper contact sharp	460	5	0	75			
	@ 75° lower @ 55°. Contains minor	465	5	2	25,35			
	disseminated pyrite and sphalerite. Possible	470	5	2	25,65			
	dyke.	475	5	1	30			
		480	5	1	10			
		485	5	2	10,55			
		490	5	0				
	529' Sphalerite-pyrite veinlet cut by calcite	495	5	2	20,75			
	veinlet.	500	5	0				
		505	5	0				
	539' Sphalerite-galena veinlet 3 mm wide @ 30°	510	5	1	25			
	is cut and offset by quartz-calcite filled	515	5	2	25,35			
	fracture.	520	5	1	15			
		525	5	0				
	543' 5 cm wide fault gouge @ 80°	530	5	2	25,55			

DIAMOND DRILL RECORD

PROPERTY CATARACT

HOLE No. DDH 8304

[illegible]

Hole No. _____ Sheet No. 10 of 10 Lot _____

Total Depth.....

Section..... Dep.....

Logged By

Date Begun Bearing

Claim

Date Finished..... Elev. Collar.....

Core Size

[illegible]

DIAMOND DRILL RECORD

PROPERTY CATARACT

HOLE No. DDH 8305

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. DDH 8305 Sheet No. 1 of 8

Section

Date Begun Aug. 22, 1983

Date Finished Aug. 25, 1983

Lat.

Dep.

Bearing 232° -45°

Elev. Collar 1325 m

Total Depth 348' (106.1m)

Logged By T. Lee

Claim Cataract #3

Core Size NQ

Conversion - 1 foot = 0.305 m

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
	<u>SUMMARY</u>						
0 - 18'	Overburden.						
- 38'	Medium coloured lapilli tuff. Accidental clasts present include quartzite and plutonics (Scuzzy). Sphalerite and galena with traces of chalcopyrite occur in fractures and as disseminations. Associates include pyrite and pyrrhotite. Garnet widespread.						
38 - 120'	Generally medium coloured, also light to dark. This section lacks the pyroclastic character (distinct rock fragments) of the section above. No Scuzzy clasts present. It appears that dark patches in the rock are relics of the pre-alteration lithology. Finer grained material between patches appears to consist largely of fine grained quartz and sericite. Similar to 227' to 333' in 8301. Base metal mineralization as above. Garnet present.						
120 - 173'	Medium coloured lapilli tuff. Distinct fragments in this section include some of basement lithology. Mineralization as above. The frequency of mineralized fractures is noticeably lower than the sections above although the base metal contents have not changed appreciably. Garnet present.						

DIAMOND DRILL RECORD

PROPERTY

CATARACT

HOLE No. DDH 8305

[illegible]

Hole No. 8305 Sheet No. 2 of 8

Hole No. 8305 Sheet No. 2 of 8

Section _____

Date Begun .. .

Date Finished.....

Lat.

Dep.

Bearing _____

Elev. Collar

Total Depth.....

Logged By.....

Claim _____

Core Size

[illegible]

DIAMOND DRILL RECORD

PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8305

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. DDH 8305 Sheet No. 3 of 8

Section

Date Begun

Date Finished

Lat.

Dep.

Bearing

Elev. Collar

Core Interval Recovery

Total Depth 348' (106.1 m)

Logged By

Claim

Core Size

Note: Order of listing does not imply relative abundance

DEPTH	DESCRIPTION	SAMPLE X M.	WIDTH OR SAMPLE	M.S. No.	C.A. M.S.	Sample Number
	NOTE:	18-25'	6	1	45	9100R
	(1) "M.S. No." = Number of mineralized structures	25-30	5	1	5	01
	(vein or fracture) containing one or more of	30-35	5	0		02
	sphalerite, galena, chalcopyrite. Structures with	35-40	5	4	45,30	03
	only pyrite and/or pyrrhotite are not included.	40-45	5	2	35,10	04
	(2) "C.A. M.S." = core angle of M.S.	45-50	5	5	50,35,0	05
0 - 18'	OVERBURDEN (talus).	50-55	4.5	5	5,70,35	06
18 - 38'	Medium coloured lapilli tuff with various lithic	55-60	5	5	45,35,55	07
	fragments consisting of abundant quartzite and	60-65	5	7	50,30,70	08
	occasional dark fine grained fragments with or without	65-70	5	7	15,30,	09
	disseminated garnet-sphalerite-pyrrhotite-pyrite. Parts	70-75	5	10	15,30,40,60	10
	are weakly bleached. This section is weakly mineralized	75-80	5	8	10,40,50,60	11
	with sphalerite in veinlets and disseminations.	80-85	5	5	10,15,60	12
	30' Fragment of Scuzzy intrusive.	85-90	5	8	0,10,15,35,60	13
38 - 120'	Generally medium coloured (variable light to dark).	90-95	5	7	0,15,45,70	14
	Dark, fine to medium grained fragments or patches with	95-100	4.5	0		15
	or without disseminated garnet-sphalerite-pyrite-	100-105	5	1	15	16
	pyrrhotite are most abundant in the 38-61' interval.	105-110	5	4	0,30,50	17
	61-120' is mainly lighter coloured in places with a	110-115	5	2	0,50	18
	mottled, white and greenish, appearance. This interval	115-120	5	6	0,10,50	19
	is possibly an altered dark fine grained rock. There is	120-125	5	8	10,40,75	9120R

DIAMOND DRILL RECORD

PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8305

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. DDH 8305 Sheet No. 4 of 8

Section _____ Lat. _____ Total Depth _____
 Date Begun _____ Dep. _____ Logged By _____
 Date Finished _____ Bearing _____ Claim _____
 Elev. Collar _____ Core Size _____

Interval Recovery Note: Order of Listing does not imply relative abundance

DEPTH	DESCRIPTION	SAMPLE XXX	RECOVERY	M.S. No.	C.A. M.S.	Sample Number
38 - 120' (cont'd)	a gradual change between these two subintervals. The	125-130	5	3	10,30,50	9121R
	38-61' interval is similar to intervals in other holes	130-135	5	0		22
	with dark fine grained fragments or patches.	135-140	5	0		23
	Magnetism is strong in dark fragments, weak else-	140-145	5	1	30	24
	where. Fragments relatively rich in pyrrhotite	145-150	5	1	45	25
	are also relatively rich in sphalerite. No Scuzzy	150-155	5	0		26
	fragments noted. This interval also contains a couple	155-160	5	0		27
	of short sections (a few feet) in which distinct	160-165	5	3	55,30,40	28
	fragments are present. Abundant garnet is present in	165-170	5	0		29
	disseminated form and the colour of the garnet varies	170-175	5	3	30,60	30
	from pinkish to black. Moderate mineralization in the	175-180	5	0		31
	form of sphalerite, pyrite, galena, chalcopryrite and	180-185	5	1	15	32
	pyrrhotite. Sphalerite is dominant. Sulphides as	185-190	5	0		33
	veins and disseminations. Mineralization sometimes	190-195	5	2	10,65	34
	associated with quartz, garnet/or chlorite.	195-200	5	2	45,0	35
	43-45' Dark and fine to medium grained section with	200-205	5	4	15,30,50	36
	garnet. Lacks the light coloured alteration	205-210	5	7	20,35,40	37
	typical in the section 38-120'. Mineralized	210-215	5	2	20	38
	as above.	215-220	5	5	10,25	39
	81-83' 4 mm wide sphalerite-pyrite-galena-garnet-	220-225	5	0		40
	chlorite veinlet @10°.	225-230	5	0		9141R

DIAMOND DRILL RECORD

PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8305

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. DDH 8305 Sheet No. 5 of 8

Section

Date Begun

Date Finished

Lot

Dep.

Bearing

Elev. Collar

Total Depth

Logged By

Claim

Core Size
Note: Order of listing does not imply relative abundance

DEPTH	DESCRIPTION	SAMPLE No.	WORTH OF SAMPLE	M.S. No.	C.A. M.S.	Sample Number
120 - 173'	Medium coloured lapilli tuff. Colour variable due to various lithic fragment types. Fragments in the section tend to be more distinct than in the section 38-120' are generally distinct. Abundant fine grained light to medium coloured fragments, many with foliation. Lesser dark, fine grained fragments. Dark fragments increase approaching the lower contact to the point where it is the matrix. Occasional quartz veinlets. Weak chlorite alteration, bleaching and silicification in places.	230-235	5	0		9142R
		235-240	5	2	10,15	43
		240-245	5	1	30	44
		245-250	5	3	30,20,40	45
		250-255	5	1	15	46
		255-260	5	0		47
		260-265	5	1	20	48
		265-270	5	1	10	49
		270-275	5	1	10	50
		275-280	5	0		51
		280-285	5	1	0	52
		285-290	5	0		53
		290-295	5	0		54
		295-300	5	1	50	55
		300-305	5	0		56
	139-140' Fault gouge and shear at 15°.	305-310	5	0		57
	143' Pink (hard, H 6) mineral along edge of quartz vein. Maybe rhodenite?	310-315	4.5	0		58
		315-320	5	0		59
	146' 4 mm wide crushed rock shear zone at 65°.	320-325	5	0		60
	155' Veinlet at 20° with unknown mineral (tabular, colourless, H=4 zeolite or barite?) as in other holes, plus calcite.	325-330	5	0		61
		333-335	4.5	0		9162R

DIAMOND DRILL RECORD

PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8305

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. DDH 8305 Sheet No. 6 of 8

Section

Date Begun

Date Finished

Lat.

Dep.

Bearing

Elev. Collar

Total Depth

Logged By

Claim

Core Size

Interval Core Recovery

Note: Order of listing does not imply relative abundance

DEPTH	DESCRIPTION	SAMPLE NO.	WIDTH OF SAMPLE	M.S. No.	C.A. M.S.	Sample Number
120-173' (Cont'd)	164' sphalerite veinlet at 30° cut by quartz veinlet	335-340	5	0	-	9163R
	at 40°.	340-348	8	0	-	9164R
- 179.5'	Dark (almost black) lapilli tuff. Fine to medium grained matrix and lapilli fragments. Fragments and matrix appear to be similar in composition and texture.					
	Also some minor foreign fragments including a few Scuzzy intrusive fragments. Abundant pinkish to black disseminated garnet. Weak mineralization.					
179.5 - 183'	Whitish lapilli tuff to tuff. Fragments and matrix both light coloured. Also two Scuzzy intrusive fragments and some probable Scuzzy derived quartz fragments.					
	Minor mafics. Weak mineralization.					
- 191'	Similar to 173-179.5' interval except it appears to be more fragmental and has less garnet.					
191 - 248'	Medium to dark tuff to lapilli tuff. Fragments are diverse in composition and indistinct. Minor Scuzzy intrusive component. Some dark fragments with garnet-pyrite ± sphalerite. Most of the lapilli size fragments occur at the start of the interval. Some bleaching occurs with veining and chlorite/ occurs					

DIAMOND DRILL RECORD

PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8305

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. DDH 8305 Sheet No. 7 of 8

Section

Date Begun

Date Finished

Lat.

Dep.

Bearing

Elev. Collar

Total Depth

Logged By

Claim

Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
191-248' (Cont'd)	along some of the fractures. Some disseminated						
	garnet generally more abundant in the dark fragments.						
	Weak to moderate mineralization as sphalerite pyrite-						
	pyrrhotite veinlets and disseminations.						
	195' Slickenside at 5°.						
	205-210' Relatively abundant sphalerite.						
	Associated pyrrhotite and pyrite.						
	214' 2 mm wide veinlet of pyrite-chlorite/ - arseno-						
	pyrite-pyrrhotite sphalerite at 30°.						
	225' Minor slickenside and gouge at 30°.						
	226' ½ cm veinlet of unknown mineral (colourless -						
	white, tabular, H=4. Zeolite or barite?) at 45°.						
	233' 5 cm quartz-calcite pod.						
	244-245' 7 cm wide zone of breccia and veining.						
	Mineralized throughout but more intense mineraliza-						
	tion in the veins. Veining @30°.						
248 - 348'	Dark lapilli tuff lesser tuff. High metamorphic						
	fragment component including schist and quartzite. Low						
	volcanic component. Minor Scuzzy component. Lapilli						
	are generally distinct. Matrix is dark. Weak to						
	moderate magnetism. Occasional white calcite-quartz						

DIAMOND DRILL RECORD

PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8305

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. DDH 8305 Sheet No. 8 of 8

Section

Date Begun

Date Finished

Lat.

Dep.

Bearing

Elev. Collar

Total Depth 348' (106.1m)

Logged By

Claim

Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
	veinlet and some sections where it is abundant.						
	Minor disseminated garnet. Weak mineralization in the form of pyrrhotite > pyrite-chlorite-quartz > sphalerite-chalcopyrite veinlets and disseminations.						
	254-255' About one dozen calcite-quartz veinlets at 20-30°.						
	260' Thin fault gouge at 40°.						
	281' Slickensides on fracture with calcite at 25°.						
	306-307' Abundant calcite and unknown mineral (white, very soft, greasy feel in veinlets at 40-50° and irregular veinlets. Possible shear zone.						
	314-316.5' Two slickenside surfaces at 20° and some calcite veinlets.						
	333' Unknown mineral (white, tabular, H=4. Zeolite or barite?) + calcite and crushed rock at 45°.						
	346' Slickensided fracture. Pyrite slickensided.						
	335-348' No base metal sulphides. Traces of pyrrhotite.						
348'	END OF HOLE						

DIAMOND DRILL RECORD

PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8306

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. DDH 8306 Sheet No. 1 of 5
 Section DDH 8306
 Date Begun August 26/83
 Date Finished August 29/83

Lat.
 Dep.
 Bearing 017°, -60°
 Elev. Collar.
 Core

Total Depth 361 feet
 Logged By TL, RB
 Claim Cataract #3
 Core Size NQ

Interval Recovery

DEPTH	DESCRIPTION	XXXXXX	XXXXXX	M.S. No.	C.A. M.S.	Sample Number
	NOTE:	27-35	7	5	10,0,60	9165R
	(1) "N.S. No." = number of mineralized structures which	35-40	5	1	40	66
	are the number of veins or fractures containing one	40-45	5	2	30,0	67
	or more of: sphalerite, galena, chalcopyrite.	45-50	5	3	15,20	68
	Fractures or veins containing only pyrite and/or	50-55	5	1	80	69
	pyrrhotite are not included. Cataract base metal	55-60	5	2	50,60	70
	sulphide structures usually contain pyrite and/or	60-65	5	1	35	71
	pyrrhotite.	65-70	5	2	60	72
	(2) "C.A. M.S." = core angle of M.S.	70-75	5	0		73
		75-80	5	0		74
0 - 27'	OVERBURDEN.	80-85	4.5	0		75
		85-90	5	0		76
		90-95	5	1	45	77
7 - 34'	Lapilli tuff to tuff. Lapilli are composed mainly of	95-100	5	1	10	78
	basement fragments such as schist and quartzite. Minor	100-105	5	2	10,0	79
	disseminated garnet. Base metals occur as sphalerite-	105-110	5	0		80
	pyrite- galena- chalcopyrite veinlets and as	110-115	5	1	35	81
	disseminations.	115-120	5	1	25	82
		120-125	5	1	30	83
		125-130	5	1	10	84
		130-135	5	1	40	9185R

DIAMOND DRILL RECORD

PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8306

DIP TEST		
		Angle
Footage	Reading	Corrected

Hole No. DDH 8306 Sheet No. 3 of 5

Section

Date Begun

Date Finished

Lat.

Dep.

Bearing

Elev. Collar

Total Depth 361 feet

Logged By

Claim

Core Size

DEPTH	DESCRIPTION	Interval		Recovery		M.S. No.	C.A. M.S.	Sample Number
		XXXXXX	XXXXXX	XXXXXX	XXXXXX			
96.5 - 130'	Dark breccia fragments set in a lighter sericitic ground mass. Garnet, pyrrhotite, pyrite, sphalerite and chalcopyrite occur in the fragments as well as in the ground mass. This section is strikingly similar to 34-56' in this hole. Weak sulphide mineralization. A Scuzzy clast is noted at 103'.	240-245	5	2	15,80			9207R
		245-250	5	0				08
		250-255	5	2	40,65			09
		255-260	5	3	60,45			10
		260-265	5	1	30			11
		265-270	5	0				12
		270-275	5	0				13
		275-280	4.5	0				14
130 - 153'	Dark andesitic lapilli tuff or breccia. Fragments and matrix appear to be of the same composition. This section is similar to 56-96.5' in this hole but less altered. Minor disseminated garnet. Weak sericite development. Very weak base metal sulphide mineralization. No Scuzzy clasts.	280-285	4.5	0				15
		285-290	5	1	40			16
		290-295	5	2	45			17
		295-300	5	0				18
		300-305	5	0				19
		305-310	5	0				20
		310-315	5	1				21
		315-320	5	1	10			22
		320-325	5	0				23
153-- 163'	Breccia as 34-56' in this hole. Garnet present throughout. Weak base metal mineralization.	325-330	5	0				} 24
		330-335	5	0				
		335-340	5	0				} 9225f
		340-345	5	0				

DIAMOND DRILL RECORD

PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8306

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. DDH 8306 Sheet No. 2 of 5 Lat. Total Depth 361 feet
 Section Dep. Logged By
 Date Begun Bearing Claim
 Date Finished Elev. Collar Core Size

Interval Core Recovery

DEPTH	DESCRIPTION	SAMPLE NO.	RECOVERY	M.S. No.	C.A. M.S.	Sample Number
34 - 56'	Dark monolithological breccia similar to 227-333 in DDH 8301. Fragments are composed of a fine grained lithology set in a lighter sericitic ground mass. The fragments contain garnet, sphalerite, pyrrhotite, galena and chalcopyrite. Basement fragments of Scuzzy absent.	135-140	5	1	50	9186R
		140-145	5	1	25	87
		145-150	5	0		88
		150-155	5	1	45	89
		155-160	5	5	15,50	90
		160-165	5	3	20,50	91
		165-170	5	0		92
56 - 96.5'	Dark, almost black, fine grained andesitic flow. The fragments in the section 34-56' maybe altered and mineralized equivalents of this unit. Occasionally present are 1-3 mm plagioclase laths. This lithology is similar to certain portions of the breccia zone intersected in DDH 8301 and 8302. Specifically, the material is similar to 378-435 in DDH 8301 but crackle brecciation is not developed in the present interval.	170-175	5	0		93
		175-180	5	1	40	94
		180-185	5	1	25	95
		185-190	5	1	45	96
		190-195	5	0		97
		195-200	5	0		98
		200-205	5	3	30,10,45	9199R
		205-210	5	1	25	9200R
		210-215	5	1	30	01
		215-220	5	5	20,40,85	02
		220-225	5	0		03
		225-230	5	3	15,50,25	04
	56-62' Abundant disseminated garnet.	230-235	5	3	45,15	05
		235-240	5	0		9206R

DIAMOND DRILL RECORD

PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8306

[illegible]

Hole No. Sheet No. 4 of 5

Section.....

Date Begun: _____

Date Finished.....

Lat.

Dep. _____

Bearing _____

Elev. Collar

Total Depth.....

Logged By

Claim

Core Size

[illegible]

DIAMOND DRILL RECORD

PROPERTY CATARACT - EAST ZONE

HOLE No. DDH 8306

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. Sheet No. 5 of 5 Lat. Total Depth
 Section Dep. Logged By
 Date Begun Bearing Claim
 Date Finished Elev. Collar Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
199-361' (contd)	Bleaching occasionally along veins and fractures. Minor garnet. Weak base metal sulphide mineralization. This section is similar to 163-182' in this hole.						
	199-211' lighter section apparently due to bleaching.						
	201' Quartz-sphalerite veinlet at 10° offsets a sphalerite veinlet at 35° by 5 cm.						
	228' Sphalerite -pink mineral galena veinlet with 5 cm bleached envelope offset by 1 cm.						
	264' 2 mm wide gouge at 40°.						
	275-287' Occasional calcite plus unknown white mineral in veinlets. 276' 276' minor gouge at 15°.						
	278-281' broken core. 287' unknown white mineral (hardness 4) + calcite veinlet at 30°.						
	287.5' 3mm wide pinkish veining at 30°.						
	289-291' Abundant alteration, bleaching and chlorite.						
	357' 1 cm wide calcite veinlet at 35°.						
361'	END OF HOLE						