DDH Logs S-72-1 to S-72-5 827734 Date: Oct. 30/72

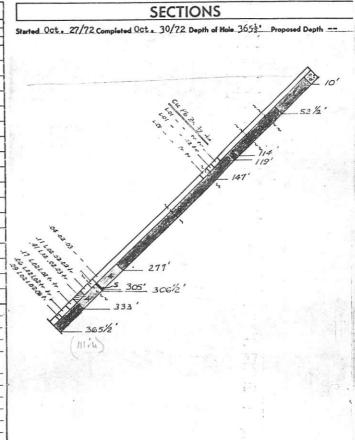
### DIAMOND DRILL RECORD

LOCATION 33 + 24 N. / 1 + 75 W.

SHEET NO. 1

		LOG
FROM	то	DESCRIPTION
0	10	Overburden.
10	521	10-14' broken rock probably due to surface
		frost action. Rock is medium green-grey,
		medium grained andesite; some minor zones
		with epidote amygdules → 1/8"; mafics too
		small to recognize; Tr. sulphide and 1 grain
		of chalcopyrite at 34'.
52 <del>1</del> / <sub>2</sub>	114	Quartz-Sericite schist, pyritic, heavily
		oxidized to 57'. Core angle 450 (to axis of
		hole) but flattens after the first 10' to
		about 70°. Throughout, the core angle varies
		from 45° to 90° with the average being about
		70°-80°.
		The rock is probably a rhyolite porphyry or
		crystal tuff (many "quartz eyes" of 2-4mm.
		are apparent). Feldspars are now altered to
		sericite and talc. Pyrite content varies
		from $\frac{1}{2}\%$ to over 20% (in some 6" sections).
		Moderate oxidation to about 100' then rock
		becomes fairly fresh.
		Fault Zones: 65 - 66½
TEST		92 - 93
114	119	Light green rhyolite amygdaloidal flow.
		10% banded, fine grained pyrite.
		6" conformable hornfelsed zone at upper
		contact (possibly a chilled margin effect
		from a sill?): lower contact is gradational

SAMPLE No.	FROM	то	WIDTH	Ĭ	AL	UE	S
1 2			41.3				
			1,01			-	
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						-	
						101	
1000	4						
					5		
						_	_
						-	
						-	-
						1	-
					1-		
A:	artz es	' C	collar Lat collar Elevat azimuth =r S	ion 1	.540°		
4 Gra	eid tuff aphitic ricite s	s .	Nzimuth at 1 NPS: F:			Ft.	
Qua	dstone rtz ch schist	Lorite	F1			Ft.	
	lorite :					. Sim	
Qua	artz ser schist inch=	TOTAL				Comp	



		LOG	1		Α	SSA	YS				SECTIONS						
FROM	то	DESCRIPTION	SAMPLE No.	FROM	то	WDTH	Cu	Pb	U E :	S Ag/Au	Started		Completed		Depth	of Hole	Proposed Dept
		over about 1'.		M. M. S.		-					1						= 54
		*SECTION QUITE POSSIBLY OVERTURNED* and	-	_		-	-			_							
		hornfels is chilled margin at base of flow.				-				-							
119	277	Quartz-sericite schist as before. Core angle			-	-	-			-			16				**
		now 70-80° quartz eyes (both rounded and	-			+	-			,							- 1 <del></del>
		angular) form up to 20% of the rock locally.	228N	129	139	10'	L.01		-	tr/tr							
		139-140½ about 30% pyrite in irregular	227N	139	144	5.	L.01		`	tr							
		bands up to ½" *probably old-timers lead*	229N	144	154	10'	L.01			tr/tr							1.0
		147-149 - probable fault zone - some oxid-															
-						1											
_	-	ation and weak silicification.	100.7								1						
		157½-159 - about 10% pyrite - fine bands															
		175-177 - possible minor fault.															
		205-209' - possible minor fault with some									1						
		oxidation and minor fracturing.			_	1					1						
		219-222' fracturing and possible fault.	226N	295	305	10'	1	L.02	.03		1						
8		- about 2' lost core.	220N	295	305	10	-04	1.02	-03	1	1						
		2562-277' - intense sericitization and minor			-	+-	-	-	-	+	1						
		silicification (some quartz veins to 2").	1.5	GEN				_	_		1						
		Some lost core.	1	3 E N		Collar Lat.					100						
277	305					Collar Eleva	Start	s. 40°	W.								
		intensely pyritic probably derived from				Azimuth at											
		argillaceous tuff - very finely laminated.				DIPS:					1						
		Pyrite probably averages 10% now with some				F	t t				1						
		zones as high as 50% sulphide; minor quartz					t										
		veining with irregular veins >1" wide.				F	÷,										
		*Many sedimentary features such as cross			- 1					son	-						
			SCALE		- 1			ng By			-						
WESTERN		bedding and graded bedding,	SCALE	inch			Assayii	· · · · · · · · · · · · · · · · · · ·			_						

		LOG	ASSAYS								SECTIONS				
FROM	то	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH	Cu	/ A L	U E S	S Ag/Au	Started Completed Oct . 30/72Depth of Hole Proposed Depth				
		Core angle 70-90°.		-	-	-			- 1	`					
305	306 <del>2</del>	Light green slightly sheared mudstone - some		-	-	-			9		SUMMARY				
		quartz veining and epidotization - could be	-		-		_		- 3		In S-72-1 a 421 capping of intermediate volcanics				
	See	an extremely fine pyroclastic - waterlain.		-	-	+		_			overlies a sequence of acid tuffs with only one interflow of light green volcanics.				
16		Rare pyrite. chlorific			-	++-		-	-	-					
306	333	Graphitic sericite schist: as before - poss-	T.			-	-			.02/	There are many sedimentary features indicating that the tuffs were water lain. Weak evidence suggests				
17		ible fault 311'. Traces of chalcopyrite.	230 N	312	322	10'		L.02		.005	that the entire section may be overturned.				
	1	318-358 - minor chalcopyrite in disseminated	231 N	322	333	11'		L.02	.02	tr	The main mass of rock (52-114' and 119-277') is				
		fairly coarse grains.	232 N	333	343	10.		L.02		tr/tr	a lightly sheared rhyolite porphyry or rhyolite				
		323-325%'-some very coarse chalcopyrite -	233 N	343	353	10.	.06	L.02		tr/tr	crystal tuff. Quartz eyes are generally rounded and fairly abundant. Feldspars and mafics (if there				
		often crosses bedding ~1% Cu (for this 21)	234 N	353	358	5*	.09	L.02	L.02	.05/	were any) are altered to sericite and talc.				
		After 325 rock becomes slightly coarser			-		-	-	-	-	Pyrite is abundant throughout the schists and varies				
		grained (but it still is a fine-medium	-	-		-	-	-	-	-	from ½% to over 30%. Average pyrite content of the sericite schist would be about 4%. Argillic tuffs				
		grained tuff).	-	-	-	-	-	-	-	-	from 277-305' and 306\frac{1}{2}-333' are higher in pyrite				
		330-331'-some good, coarse, chalcopyrite in			-	-		-		-	(say 10-15%) and chalcopyrite is present as fairly coarse blebs and disseminations.				
J		part associated with a quartz veinlet.	-	-			-	-	\$4.85	-					
333	3651	Quartz-sericite schist as before except with		-	-		-		里多	-	Economic potential in this sedimentary sequence is confined to the lower (in the hole) band of				
U.S.	END	fewer quartz eyes. Slightly less sulphide	1 -	0511					7.4	_	graphitic schists from 3062-333'. Oxidation and				
		than preceeding unit but more than other	LE	GEN	_	Collar Lat Collar Eleva					leaching would limit the effectiveness of surface exploration.				
4	- Time	sericite schists: traces of chalcopyrite to			- 1	Azimuth at 5									
1		358' then sulphide content drops off				Azimuth at	End				November 1, 1972 J.W. Simpson				
A M		quickly.				DIPS: Fr									
19, 42	5 54					Fr									
						F									
-						F			Ft.						
					- 1			By J.			-				
			SCALE		- 1		Sampli	ng By							

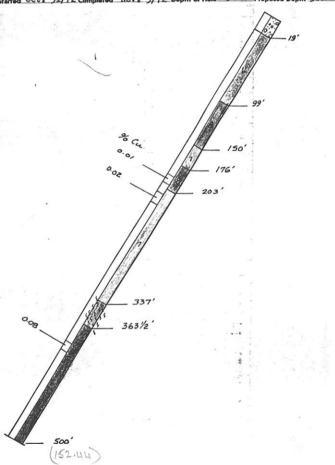
		LOG
FROM	то	DESCRIPTION
0	19	Overburden.
19	271/2	Finely banded quartz-chlorite schist; some carbonate bands, some quartz-graphite bands.
		In general these bands vary from $1/16-\frac{1}{2}$ " and
		are irregular. Core angle varies considerabl
		No sulphides.
271	55	Patchy & irregularly banded quartz chlorite schist. Differs from bed, above, in high
		degree of epidotization. Rock now about 30% epidote (after feldspar?). Minor fine-graine
		pyrite. No chalcopyrite noted. Some hematite (after pyrite?).
55	60	Fine-grained epidote-chlorite-quartz tuff.
		Massive except for minor carbonate filled
		fracture.
60	99	Variously altered siliceous pyroclastics.  Alteration is mainly epidotization and car-
		bonatization.
		73-83' more chloritic section fine-grained
	1.5	and less altered. Minor pyrite disseminated
		in some sections.
	100	73' - 2" band with about 15% pyrite.
99	150	Fine-grained, light grey, lightly sheared
		quartz-sericite schist, possibly a limy mud-
		stone modified by shearing. Core angle fairly
	-	uniform and almost at right angles to core
	1	axis.

		Α	S 5 A	Y S			
SAMPLE No.	FROM	то	WIDTH	Cu	Pb	Zn	S Ag/At
239 N	190	200	10'	.01	-	L.02	tr/t:
240 N	212	222	10'	.02	-	L.02	tr/t
241 N	387	397	10*	.08	-	.03	tr/t
1,3							
1		·					
:						-	
							+
P 2 3 F	A13	.og	Collar Lat Collar Elevat Azimuth at S Azimuth at DIPS: Ft	tion	450° 210°	Ft.	
5 5 6 F	AND		Fi			Ft.	
8	FT linch=			Sampli	ng By I	.W.Sim Compondar (	ton

**SECTIONS** 

Started Oct. 31/72 Completed Nov. 3/72 Depth of Hole 500 Proposed Depth 500

LOCATION 36 + 34 N. - 2 + 20 W. (180' E. of 4 W.)



L			
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t	-		

L			LOG
E	RAME	5 TO	DESCRIPTION
H		- 150	111-116' - somewhat darker colour and minor
C	onti	ued)	disseminated pyrite.
		-	116-118' Some irregular quartz patches.
L			Other evidence of silicification at about 125
L		+	138-150'. Gradually changes over a few feet
L		-	to more chloritic & more silicified material.
L	150	176	Silicified andesite, (S) 153'. Rock is
L			fine-grained with trace of epidotized feld-
L			spar phenocrysts. Pervasive silicification
L		1	is accompanied by limonite stained, quartz
L		h	filled fractures. Intensity of silicificatio
E			increases down hole.
L			161-176'. Very intense silicification.
		1	165.5-176'. Brecciation - increasing in
-			intensity with depth. Very low sulphide
			content. (S) 175'.
L	176	203	Fault contact (less competant rock below
-	L		fault lost), e.g. 1' between 176-178', 12'
Ŀ			between 180.5-184. Rock is light grey quartz
			sericite schist similar to 99-150' intersec-
			tion. (S) 191'. Pyrite content about 5%
	19		between 190-200° in bands or disseminated,
	203 F	247.5	Mottled grey & white argillaceous tuff; some
	F		fairly sandy in irregular bands, distinct
	F		from preceding intersection in colour(whiter)
			and coarse mottled texture. No sulphides
		1	for 5' then irregularly banded pyrite becomes

III-41		A	SSA				
SAMPLE No.	FROM	то	WIDTH		/ A L	UES	5
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		- 1		Samplin	g By		

C	TIII	J 9	VS
2	TIC	<b>~</b> 1	CF

SHEET NO. 2

Started Completed Depth of Hole Proposed Depth

r 3		LOG			Α	SSAY	S		8				SEC	MOIT	12			
FROM	то	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH	VAL	UE	S	Started		Completed		Depth	of Hole	Pro	posed Dept	th
203	247.5	fairly abundant. Silicification is moderate						-			1 7							
(cont	inued)	& irregular. Many fine calcite stringers.			-1.5		- t	-	- 8					*5.4				
A.		Metamorphism has caused irregular aggregates				-   -   -	<u> </u>	-										
		of felsic minerals to form giving mottled						-		7 =						-		
		appearance.						-	¥ -						*	2.1		
247.5	255	Light green fine-grained andesite probably							1				×					
		tuffaceous. Feldspar altered to epidote, many	ļ			-		-	- 2					1				
		quartz & calcite filled fractures. Sulphides				$\vdash$		-	- 5									
		rare.							F.	4 4 5					-	-		
255	268	Mottled grey & white argillaceous tuff as	142 1	- X	- 17				1							11.00		
		203-247'. Progressive increase in silicific-		AND THE STREET		7 7 k		F-3-	-	7. 1			-					
		ation to 268'.						-										1 10
		262-268' - almost pure quartz.				-			-									
268	363.5	Gradation to more basic volcanics over 2'into									j							
		andesitic, silicified tuffs, further grad-						-		-								
1		ation from 278-285 into even more basic																
		volcanics (now probably basaltic composition).						-										-
		Sulphides virtually absent except for narrow				$\perp \perp \perp$		<u> </u>							. (8)			
		bands → ½". Some coarse fragments in this	LEG	GEND	T4 1655	ollar Lat.												
		section. Minor hematite in fine stringers.				collar Elevation			1									
		298' on - bulk composition probably closer				zimuth at End			- 18									
100		to andesite again. (S) 301'. Many fine irreg-				OIPS:								2.5		1.		
		ular quarte & combonete \$417 of freetune	IH.	100		Ft.												
	- 112.18	337-370' Major fault zone about 15' of core						Ft.						* *				
		lost over this 33' interval.			-	Ft												
63.5	500	In fault zone - change to pyritic quartz-					ogged By ampling By		<del></del>					97				
		chlorite schist. Probably a pyritic dacite	SCALE	inch	- 1		ampling by ussaying by											

		LOG
FROM	то	DESCRIPTION '
363.5 (cont	500 nued)	tuff or mudstone (similar to mudstone section in S-72-1).
7		367'. Some heavily pyritized material but lost core.
21		375°. Some fairly coarse grains of chalcopy- rite (over ½"). Average pyrite content varies
		between 2 and 10% for 5' sections. (S) 388'. 404-406' - Fault zone, 1' core lost, chlorite
		content varies giving darker colour where it is more abundant e.g. 389-390'. After 411'
		chlorite generally more abundant. Some small gashes filled with epidote-quartz.
		420.5' - 2" with fairly coarse chalcopyrite(S  Pyrite content decreases to about 1-2% for 5'
		sections after 404(fault).  442-444' - shcerty ("silicification?).  437 & 445.5 - some coarse chalcopyrite over
r i		1" & ½" respectively. 447' - possible fault.
		452'-453' - cherty zone ~1% Cu over 1" 487' - minor fault zone.
		489-490' - chertz zone-traces of chalcopyrite 492, 497-498' - minor faults.
	152.4	500' - END OF HOLE.

MOUNT SICKER

WESTERN MINER FORM NO. 506

		Α	S 5 A							
SAMPLE No.	FROM	то	WIDTH		VAL	UE	S			
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THE TO										
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10.00		100		-						
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26 KG	disdest	399	15.	:1			-			
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	S E N [	A A D	ollar Lat  ollar Elevat zimuth at S zimuth at I IPS:  Ft.  Ft.	ion itart End Logged	Ву	Ft Ft				
		- 1				••••				
SCALE	inch			Assayin	g By					

A	SHEET NO	

		SEC	TIONS			
arted	Completed		Depth of Hole	Pro	posed Depti	٠
SUMMARY					4	

LOCATION

0 - 19' Overburden.

19 - 99' Variously silicified and epidotized. Chloritic pyroclastics. Usually very fine grained (i.e. tuffaceous).

99 - 150' Quartz sericite schist - probably a sheared mudstone not pyritic.

150 - 176' Silicified, light green andesite.

176 - 203' Quartz sericite schist similar to 99-150 intersection but now well pyritized (indigenous sulphides form bulk of this pyrite).

203 - 363.5 Variously altered pyroclastics and andesitic flows(?) often give mottled appearance.

337 - 370' Major fault.

363.5 - 500' Light grey quartz-chlorite-sericite schist (similar to 176-203 section but more chlorite and highly variable pyrite). Some stlicified sections with minor chalco-pyrite as coarse grains and irregular blebs.

Note: Rhyolite sequence of S-72-1 was not intersected.

Mudstones have no substantial chalcopyrite bearing zones as in S-72-1.

PROPERTY MOUNT SICKER

HOLE NO. S-72-3

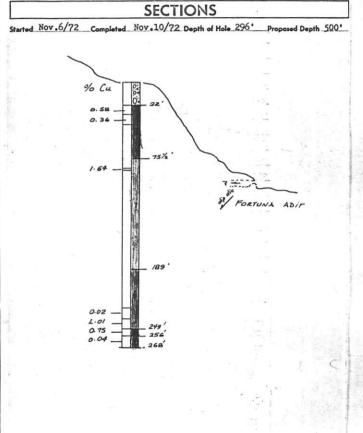
DIP -90°

LOCATION 60 E - 29 N

SHEET NO 1

0		LOG
FROM	то	DESCRIPTION
0	22'	Overburden.
22	751	Quartz sericite schist, variable amounts of
	23,0	chlorite & pyrite (some zones are almost
		chlorite schist). Colour is medium grey.
196	4	Pyrite content varies (in 5' sections) from
		5 - 7%. Chalcopyrite in stringers up to 3mm.
		wide, scattered (e.g.) 23', 26', 37', 40'.
		30-36': 2½' core lost.
	177.14	Between 38 & 42: 1' of core lost. Probably a
		quartz stringer with chalcopyrite.
1		42-46': 2' core lost - possible fault.
		54-61': 2' core lost.
		54-57: ½' core lost.
75=	189	Chlorite schist. Heavily pyritic. 7-15% for
	57.6	5' sections - colour almost black (looks a
		little like graphite in places but turns
V 48		pale green when scratched).
Mark I		87-89' - ~1% Cu as chalcopyrite irregularly
	D.F.	disseminated & banded.
1	10->	131-141' - 8' core lost in fault. Some
	str	pebbles from recovered _material indicates
		some almost massive sulphide (90% pyrite)
		some pebbles with good chalcopyrite.
		141-144' - 2½' lost core, angle about 45°.
189		Fault contacts with light green no chalco-
	58.8	pyrite - minor extremely fine pyrite.
193	200	Chlorite schist as before.

		Α	SSA	YS			
			1	V	AL		S
SAMPLE No.	FROM	то	WIDTH	Cu	Pb	Zn	Ag/Aı
242 N	22	32	* 10*	0.58		.02	.03/
243 N	32	42	* 10'	0.36	-	.03	.04/
244 N	87	89	2'	1.64	-	.04	12/
	200		1				tr/
236 N	229	239	10'	.02	-	L.02	tr/
237 N	239	249	10'	L.01	L.02	L.02	.06/
235 N	249	256	7'	0.75	.02	.02	
238 N	256	268	12'	0.04	-	L.02	tr/t
					, ,		
* lost	some c	ore		2			
A S	GENI s on lo -72-1 hert &	heavy	Collar Lat Collar Eleval Azimuth at S Azimuth at DIPS: F1 F1 F1	tion 184	ю.	Ft. ,	son
SCALE	1 inch =	60.		Assaying	ву Во	ndar C	legg



PROPERTY MOUNT SICKER

HOLE NO. S-72-3

DIP

SHEET NO.\_\_\_2\_

		LOG
FROM	то	DESCRIPTION
200	202	Light green andesite with abundant carbonate
		filled fractures & gashes.
202	217	Chlorite schist as before but less abundant
14.5		sulphide.
217	224	Andesite - as 200-202 intersection, gradat-
Diego.	34	ional at bottom to chlorite schist, (S)-220'.
224	249	Chlorite schist as before but some sericitic
		sections (up to 6-8") then gradual gradation
(2)		to more sericitic material.
249	256	Chert & massive pyrite, about 60% pyrite, fin
		chalcopyrite disseminated in many places.
		Some very coarse blebs of chalcopyrite. >1% (
256	268	Quartz-sericite schist, about 7-8% fine
		pyrite. (S)-264', some good chalcopyrite at
		261'- (S) 1/4 split of core.
	268	END OF HOLE. Rods stuck - some
H.	A SELECT	abandoned.
5.17		
4.5%	Fig.	
	BER	

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SAMPLE No.	FROM	то	WIDTH				
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LEC	GENE	- c	ollar Lat ollar Elevat	ion			
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SECTIONS					
d	Completed	Depth of Hole	Proposed Depth		

#### SUMMARY

LOCATION.

The rocks encountered in S-72-3 are predominantly chlorite schists with considerable pyrite and rarely chalcopyrite.

From 22-75 $\frac{1}{2}$ ' the rock is chloritic sericite schist. From 75 $\frac{1}{2}$  to 189' chlorite schist dominates. Between 189' and 249' the schists are faulted against andesite flows and tuffs. A massive pyrite-chert zone was intersected from 249-256', and this is assumed to be the stratigraphic equivalent of cherts in the northeast Cu zone. Copper, in the form of chalcopyrite is disseminated and forms about 1% of the zone. The hole ends in quartz-sericite schist with minor disseminated chalcopyrite and about 10% pyrite.

Much core was lost in the upper chlorite schist and some of these lost sections contained copper. It is not known if these zones are of economic interest or not.

The hole was abandoned at 268' when the rod string became stuck.

WESTERN MINER FORM NO. 506

PROPERTY MOUNT SICKER

HOLE NO. 5-72-4

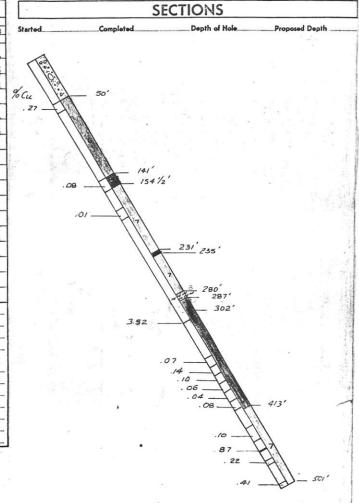
DIP -60°

LOCATION 26 1

SHEET NO......

		LOG
FROM	то	DESCRIPTION
0	50	Overburden.
50	141	Sericitic, quartz-chlorite schist very simil-
	15	ar to upper section in S-72-3. 5-15% pyrite
AG.	1	(over 5' sections). Minor chalcopyrite. e.g.
- Maria	200	$\frac{1}{2}$ " stringer at $46\frac{1}{2}$ " with some coarse blebs of
133		chalcopyrite, 692 fine-medium grained chalco
		pyrite in quartz segregation,
1.36		96' a few grains of chalcopyrite.
-5-	2.	Core angle about 45°.
		86-108' very steep fault - almost parallel
		to core axis, limonite abundant.
		87-95' - 1' core lost.
	*	95 - 108' - 10' core lost.
		Chlorite content varies, some of rock could
		be called chlorite schist.
		113' About 1" of pyrite mud, probably ground
		core.
	3	128-131'. Fault zone. 1' core lost.
1000	1.50	Much pyrite.
141	1542	Pyritic chert, some quartz veining, minor
		chalcopyrite - usually in fairly splashy
		blebs (~0,2% Cu for 13½').
1543	231	Muddy chlorite schist. Presumably similar
	1	to material above chert but more altered.
		Pyrite content fairly uniform at about 6-8%
f.		for 5' sections.
		About 176' Kaolin alteration (muddy

5 45 4		Α	SSA	YS	,		
SAMPLE No.	FROM	то	WIDTH	Cu	Pb Pb		S Ag/Au
-	-						
245 N	50	60	10'	.27	-	.03	.04/
246 N	141	154	131/2	.08	-	L.02	.02/
247 N	176	186	10'	.01	L.02	.03	tr/ tr
		47.7	1	1			.26/
248 N	307	308	1'	3.52		.05	:005
249 N	350	360	10'	0.07	L.02	.02	t.7
250 N	360	370	10'	0.14	_	.02	-
251 N	370	380	10'	0.10	L.02	.02	tr/
252 N	380	390	10'	0.06	-	-	=/_
253 N	390	400	10'	0.04	-	-	-/_
254 N	400	410	10'	0.08	L.02	L.02	
255 N	432	448	16'	0.10	-	-	.04/
256 N	459	460	1'	0.87			-/
257 N	470	475	5.	0.22	-		.02/ tr/ tr/
258 N	496	501	5'	0.41	L.02	L.02	
As R-	O E N   on Lo 72-1	100	Ft.	ion 1 tart	905°	Ft Ft Ft	pson-
SCALE 3	inch=	60.			g By Bo	Comp ndar C	



2.54=18.3

4		LOG	100		Α	SSAY		^	1	SECTIONS				
FROM	то	DESCRIPTION	SAMPLE No	FROM	то	WIDTH	V A	LUES	Started	Completed	Depth of Hole	Proposed Depth		
1542	231	appearance) grades into dark chlorite schist.										A		
(conti	nued)	Pyrite increases to 15% in some 5' sections.				<del> </del>	_		-					
	8.85	(S) 206'.		_	)	$\vdash$	_							
231	235	Pyrite bearing chert - no chalcopyrite. Some			-	-	-		1 182					
		fine fracturing. Pyrite is mostly dissemin-	-			$\vdash$	-							
	1	ated & in irregular aggregated bands.		-			_		1 19 19 1					
235	280	Sericitic-chlorite schist - heavily pyritized.		-		+								
1		Varying degree of chlorite (e.g. 2482-259 is				+-+			1.0-1					
		chloritic, quartz sericite schist). Sulphides	-			+-+			- 14					
		in bands, some $\frac{1}{2}$ wide.				$\vdash$								
280	287	Quartz sericite schist - about 20% fine dis-				-	_		-			A Property and		
		seminated pyrite. (S) 281'. Fault 285-287'.	-			$\vdash$			-					
287	302	Major fault zone. Only fragments of core	-						-					
		recovered. Rock types include chert, quartz							-					
		sericite schist & quartz veins. All contain	-						4					
15	T	considerable pyrite. Some pieces have coarse							-					
	1	blebs of chalcopyrite - sample of sludge comes	-			$\vdash$			-					
95		from 292-298 zone.	1.5	GENI		$\perp \perp \perp$			- 9					
302	413	Quartz sericite schist - about 10% chlorite		O L N I		Collar Lat		•	1 3					
120	OFF.	giving a light grey green colour. Pyrite				Azimuth at Star								
of the	S 194	content about 4-5% for 10' sections.				Azimuth at End	I				and the second			
	1	307-308' - some very coarse blebs of chalco-			0	DIPS:		f. 6.			3.			
		pyrite controlled by fracturing & contortions	IH			Ft		Ft						
		in schist. (S)-3072'. Average 3% Cu over 1			-	Ft		Ft						
		Traces of chalcopyrite 350-360 (section may			-	Ft		Ft	-					
		average 0,1% Cu). Best material in this					ogged By ampling By							
		section is at 354-355' which runs about .3%.	SCALE	inch	- 1		assaying By .							

		LOG	ASSAYS							SECTIONS			
ом	то	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH	Y A	LUES	S	Started	Completed	Depth of Hole	Proposed Depth
2	413	383-384 - minor fault zone. Minor amounts of	0					-					2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ont		chalcopyrite scattered throughout.	155		-			-					
3	4	Gradation into true chlorite schist (i.e.						-		0			
	c- ()	contact is arbitrarily set at 413'). Sulphide	977			-	-	_	-				
49		content has dropped off to 1 or 2% for most	100										9
		5' sections.	100				_	_		i.			
-		421' - quartz segregation -1" wide with mod-	5.5							PACE OF THE PACE O			
-		erate chalcopyrite (fine-grained).								ě.		. " 1 V."	
_		433' - 2" band with some coarse chalcopyrite.								2			
_		447-448' - fractures parallel to core with					0						
_		some coarse chalcopyrite. Some calcite filled											
		fractures & gashes, some remnant chystalline.	-						-	-			
		Sections indicating possible intertuff flows.	-						<u> </u>				
		END OF HOLE.		-		$\vdash$	_	_					
										10.00			
	S. 25-		3- Y 4	1				Leve					
-										£			
	-											a no n , s	
-			LEC	SEND		Collar Lat	Dej	p					
						collar Elevation	7777. T.				€ £		
-						Azimuth at Start Azimuth at End					3		
-		THE CONTROL OF THE			- 1	Nzimuth at End DIPS:		***************************************					
-						F1		Ft					
					-	Ft		F1					
			IF			Ft							
					-	Ft		F1					
		,											
			SCALE	inch	- 1		ssaying By						

PROPERTY MOUNT SICKER

HOLE NO. 5-72-5

DIP -61° (start)

LOCATION 4 E. - 6 N.

SHEET NO. 1

ROM	то	DESCRIPTION
0	7	Overburden.
7	12	Diorite - dark green medium-grained irreg-
./	3.7	ular patches of epidote after feldspar.
	4.15	No sulphide.
12	151	Surface - leached & oxidized quartz sericite
1	4.7	schist - badly broken up.
151	151	Diorite - sheared, some patches with recogniz-
	46,0	able mafics, other gone to epidote. Some
	Vi u	sections highly silicified e.g. 20-201 (also
	R	some brecciation here) 24-25' & 28-32'.
		Note 33-36' - fractures filled with fine-
E		grained copper coloured material; very soft
		but metallic sheen like native copper.
		Mostly in fractures, but some disseminated.
		More silicified sections - average compos-
		ition of rock probably closer to dacite -
3-	100	many irregular gashes filled with calcite.
S part		More Cu coloured material & Fe oxide (red).
	te i	69-70' and then scattered rarely beyond there
	121	83-84' - minor shearing, more Cu? mostly in
	1776	fractures, also 89', 92', 93'.
2.50	1 1	125-126' - minor shearing to give quartz
-	5 1	chlorite schist.
		131½-134° - quartz sericite schist.
	N-	135-136' - quartz sericite schist & minor
4.		very fine pyrite in these more acid sections.
1		(S) 134½ - "diorite".

	and the same of th		T	V			S
SAMPLE No.	FROM	то	WIDTH	Cu	Zn	Au oz/r	Ag OZ/T
259	24	34	10'	L.01	-	-	-
260	34	36	2'	L.01	- 5	_	-
261	36	46	10'	.01	_	_	-
262	81	91	10'	L.01	-	-	-
263	91	101	10'	L.01	_	-	-
264	266	276	10'	.04	-		-
265	452	462	10'	.05	.46	-	-
266	462	472	10'	.01	.14	-	-
267	472	482	10.	L.01	.02	_	_
268	482	495	13'	.02	.09	_	
269	642.5	647.	5 5'	.01	-	.005	.02
270	830	840	10*	L.01	L.02	-	
271	850	860	10'	L.01	L.02	-	_
272	870	880	10*	L.01	.02	2 -	-
273	890	890 900 10° .02 L.02 -	900	-			
274	1157	1167	10'	.03	L.02	.01	.05
A	SEN s on Lo	og (	400 =	on 18 ord 17 -61° -64° -57° -51°	7: 11:	54 Ft. 51 Ft. 00 Ft. Ft.	-26° -31°

**SECTIONS** 

Started Nov . 19/72 Completed Nov . 27/72 Depth of Hole 1342' Proposed Depth 1500'

SECTION PLOTTED ON SEPARATE SHEET

PROPERTY MOUNT SICKER

IOLE NO. S-72-

\_\_\_\_\_LOG

SHEET NO. 2

- 31		LOG
FRO.	то	DESCRIPTION
151	166	RHYOLITE CRYSTAL TUFF - sheared to give whit-
-		ish quartz-sericite schist. Traces of fine
		disseminated pyrite. Angular quartz & felds-
	Table 1	par fragment to 2mm. Core angle -45°.
166	1682	Andesitic flow - irregular fractures filled
1,466		with calcite - minor disseminated pyrite.
168 <del>1</del>	190	QUARTZ SERICITE SCHIST as 151-166. (S) 173'.
17		From 174' on rock becomes coarser grained &
14	1.0	more basic, gradation into chloritic tuff
		188-190' & then fairly sharp contact.
190	1962	Fairly coarse diorite. Mafics& feldspar
[G]		altered > epidote & chlorite.
1962	201	Quartz sericite schist.
201	452	Hornfels 201-202' some chalcopyrite & about
		15% pyrite then coarse diorite 20% feldspar
		in laths & irregular masses. Irregular vein
		lets filled with epidote, some wide (3")
15	FI S	quartz-carbonate-epidote veins; fracturing
1	100	weak - very few sulphides. (3)-230'.
Section	1000	268-269' - some quartz veining in area of
to de		more intense fracturing than before - traces
		of chalcopyrite & minor pyrite in fractures
18		associated with quartz. Graphite develops
		on some minor slips.
		305' - another zone of fracturing quartz-
		epidote veining & carbonate fracture filling
		1 large (3mm.) grain of chalcopyrite.

		A	S 5 A				-
SAMPLE No.	FROM	то	WIDTH		AL	UE	S
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							-
			$\vdash$		-		
			-				
17 6							
			-				-
			-		-	-	
				- 9			
			-				-
	SEND	- C	Collar Lat Collar Elevat Azimuth at S Azimuth at I DIPS:FtFt.	tart		Ft	
SCALE					g By		

	S	ECTIONS	
•db•	Completed	Depth of Hole	Proposed Depth

1019	79	LOG
FROM	то	DESCRIPTION
201	452	316-318, 326-327 - fine-grained grey dykes.
(cont	inued)	385-390 - some wide carbonate veinlets
R.		(fracture fillings).
gl-x		392-393 - much quartz veining.
P.F.	3 5	399' - minor fault.
N. W.	80	441-452' - progressive silicification, minor
		pyrite.
452	495=	Quartz-sericite schist, minor amounts of
		pyrite in bands. Core angle 70-80° to axis
		of hole. Traces of chalcopyrite & sphalerite
		associated with quartz rich sections.
		478-484' - abundant quartz veining but very
		little sulphide. Traces of chalcopyrite in
		with fine pyritic bands.
4952	506	Medium-grained diorite - as 201-452'. Traces
		of pyrite.
506	611	Fine dark green sheared calcareous andesite
111		tuffs. Now chlorite schist in part. Some
		coarse sections like the diorite. Calcite
		may be part indigenous, certainly most of it
		has been introduced along fractures, rock has
1		little or no pyrite. (S) 554'. More very fin
		red metallics (like red specularite), scatt-
		ered 538-565.
		565-567' - medium grained diorite again.
		554' - minor chalcopyrite in fracture.
		575-611' - considerable calcite in gashes

- 10		A	SSA	YS			
SAMPLE No.	FROM	то	WIDTH		VAL	UES	
30111 22 1103	TROM						_
7. 7. 1.	195.5		-				
11.00		-31	Carl-		201		
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WAR S							
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- 9.5							-
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		-			-		_
		_			-		_
P. 14							
5 24		i		1			
9'90	1.0				5		11
E			_k				
Series I	eens.	2 . 7	- 39	8,41	2.5		
	15.3			4 7	1.	7.1	
	END	A A	ollar Lat ollar Elevat zimuth at S zimuth at I IPS:	tart		ft	
			Ft.				
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		-	Ft.			Pt	
					111171		

SECTIONS

Depth of Hole Proposed Depth

		LOG			Α	SSA	YS				5 C	SECTIONS	4. 12.5
FROM	то	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH	Y A	LUES	Started	Cor	npleted	Depth of Hole	Proposed Depth
506	611	and fractures.	G-014 EL 140.	11011									
(Cont	inued)	3 M. s							-		100		1 /
611	673	Quartz sericite schist - as before, light		7.6		-			- 1				
FF 5	5.00	grey, minor disseminated pyrite.	2.363										
		643-648' - 2-10% fine banded pyrite.	-			-							
	9	652-654' - andesitic tuff - dark green.	- 3			-		+					
		656-660' - very siliceous.	-			-			-			and the second	
673	807	Acid crystal tuff. No sulphides. Crystals				-			-				
THE V		average about 2-3mm. sometimes rounded. Rock				-			-				
19		is comprised of about 60-70% crystal frag-				-			- 1				
2		ments & 30-40% clay-sericite-chlorite matrix.	-			-			-				1.0
201		(s)-713'.				-			_	50			
		Minor faults 745', 746½,				-			-				
	4.3	757-764 - chloritic zone. Rock is progress-							_				
4-	14	ively silicified towards bottom of inter-							1 40				
A 1		section.				-			_				
807	914	Quartz-sericite schist - pyritic sulphides	-			-							Park grad
		in irregular bands & patches - always fine-	15/	GENE									
	140	grained. Average pyrite content 27-8% for	1	JENL	-			p					
Sec. 117	WE	5' sections.											
47.00		898-899' - graphitic zone.			1	Azimuth at E	nd						
914	980	Sheared andesite tuff. Sometimes a chlorite				DIPS:			1.5				
3		schist. Sometimes fairly coarse-grained				Ft.		Ft					
		(almost diorite). Occasional fractures &			-	Ft.		Ft					
		gashes filled with calcite.			-	Ft.		Ft					
		947-948' - FAULT GOUGE. Minor amounts of											
		fine disseminated pyrite.	SCALE	inch			Assaying By						

	7	LOG
FROM	то	DESCRIPTION
7814		Last 15' grade into more acidic rock.
980	1044	Quartz-chlorite-sericite schist, medium grey
8,00		colour. Minor disseminated pyrite.
34	-	997-1007' - Fault gouge, Much shearing
	1	beyond 1007' indicating major Fault Zone.
		Only 2-3' of core lost. After 1007' - pyrite
		content increases slightly in more silicified
45		rock - sulphide now averages 304%.
1044	1076	Complex section of andesite tuffs, diorites
		& chlorite schists, low sulphide.
		$1045-1046\frac{1}{2}$ - Fault gouge. Much quartz vein-
		ing & calcite fracture filling. 1063-1065' -
		Fault gouge.
4		1066-1072' - Quartz sericite schist interbed.
1076	1153	Quartz-chlorite-sericite schist.
100		$1080-1081\frac{1}{2}$ - fault gouge. Core angle $70^{\circ}$ -
4		80° to axis of hole except for minor contor-
		tions.
1 2	E I	1092-1093 & 1103' - minor faults. Pyrite
		content of schists only 1% or so. Very fine
		disseminated crystals. (S)-1105' - Quartz
56		chlorite-sericite schist.
		1121-1125 - major fault. Filled with gouge,
		no sulphides, probably fairly steep.
9,		1½' core lost.
1153	1160	Not+lad grow group shoomed sooms tuff on

pyroclastic, minor fine pyrite.

		A	SSA	YS			
AMPLE No.	FROM	то	WIDTH	Ý	A L	U E S	
	75 P V	18.4			- Far	7.5	3/1
- 20		Drift-	$\tau \mid \mathcal{Q}_{\mathcal{A}}$		. fa	W.(-)	
	To the			et i	-	7/-	
			100			-	
	30						
						1	7
	E .	-			-		
- 12							
7. 7				200			phi.
127			Takes	7	11.00	1.4	
	BEND	A A D	ollar Lat ollar Elevati zimuth at Si zimuth at E IPS: Ft. Ft. Ft.	on art nd		Ft Ft Ft	

SECTIONS

ad Depth of Hole Proposed Depth

PROPERTY MOUNT SICKER

HOLE NO 5-72-5

DIP.

LOCATION.

SHEET NO. 6

	ale ?-	LOG
FROM	то	DESCRIPTION
1169	1188	Quartz-chlorite schist, medium grey fracture
		fillings of calcite & quartz. Minor fine-
- 3		grained disseminated pyrite. 1178-1188' -
		major fault zone, much gouge, about 2' core
	-	lost. Chlorite content very high before faul
STATE .	100	& then drops off afterwards.
1188	1277	Quartz-chlorite-sericite schist as before -
1		considerable tectonic activity but good core
3		recovery.
		1213-1214' - fault, also 1221-1222'.
		After 1222' grades in quartz-sericite schist
		with minor chlorite. Fractured silicified
		sections after 1230' have minor sulphides
		(mostly pyrite on fractures).
1277	1315	Gradual increase in chlorite from 1277' on.
		Could be called quartz chlorite schist, minor
		disseminated pyrite, core angle about 45°.
	les e	Some coarse sections (on a scale of a few
		inches) indicating waterlain environment.
		Gradation into more basic material 1307-1315'
1315	1343	Amygdaloidal andesite - like "diorite" before
Part of		but "feldspar" grains (now epidote) look more
		like amygdules. Very light shearing has
		produced matrix of chlorite. Very rare
		pyrite.
		END OF HOLE.

		Α	SSA	YS			
SAMPLE No.	FROM	то	WPTH	Ĭ	AL	UES	
- 1,1		-					
						100	
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-7 121	100	4	F 300	100	18		
7.71			1196	1	4.1		_22
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N SE	7	,	-	1.5	1/1		
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	SECTIONS				
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