DIAMOND DRILL CORE RECORD

32 114   196   G43

Mines Dept Hobart

AREA OF OPERATION SAVAGE RIVER - N.W. TASMANIA.

Hole No. D.D.H. NO. 5

Drilled by ASSOCIATED DIAMOND DRILLERS

Core Recovery 0'-224' = 66%; 224'-1020'6" = 93.9%

Geological Logging by — W.J. Atkinson

Location of Site Traverse C00, 450'W

Date Commenced 22nd January, 1960.

Date Completed 30th March, 1960.

MINE COORDS 24,592N 21,498E

AMG Co-ords: 351350 E 5405696 N.

Reduced Level of Site R.L. ~~1248'~~ ~~840'~~ 837.1

Bearing of Hole ~~90°~~ ~~270°~~ Approx. 261° 30'

Dip of Hole 60°

Bore Depth 1020'6"

Ref No 2034

ASSAY RESULTS: No core held.

DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION	ASSAY RESULTS								
Date 1960.	From	To	Core Recov.	From	To	Description		Sample No.	From	To	% Fe HCl Sol.	% SiO_2	% Al_2O_3	% Mn	% P_2O_5	% S
22/1	0'	2'	2'0"	0'		Friable, yellow-orange clays, in situ										
25/1	2'					Derived from weathering of barren										
		4'	2'0"			amphibolite. Little or no iron.										
	4'					A few scree pebbles at surface.										
					29'											
				29'		Little weathered, talcose & chloriti-										
						zed magnetite-amphibolite-schist. 5-										
		33'	3"			10% pyrite. Magnetite in small, var-										
	33'	36'	1'6"			iable amounts, 2-10%. Ground broken,										
	36'				36'	poor core recovery.		M675	36'	40'9"	19.6					
		38'	1'1"	36'		Magnetite-amphibolite-schist, a low										
	38'	40'	2'0"			grade iron ore. F.gr. grey-green										
26/1	40'	40'9"	5"			chloritized & serpentinized. Magnetite		M676	40'9"	45'9"	14.4					
	40'9"	44'6"	2'7"			variable 10-70% (avg.40%) as granular										

Amphibolite schists. Hornblendic, talcose and chloritic types.

Magnetite - amphibolite - schist, similar to amphibolite-schist with magnetite greater than 5%.

Amphibolite, massive. Often altered to chloritic and serpentinous, epidote-rich types.

Magnetite - amphibolite. Composition similar to massive types with greater than 5% magnetite.

Gabbro-amphibolite. Massive, barren "doleritic" text

IRON VALUES

Greater than 50% HCl. Sol. Iron.

40%-50% HCl. Sol. Iron

30%-40% HCl Sol. Iron

Less than 30% HCl. Sol. Iron.

Hole No. 5.

197

2.

32 115

043

DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION	ASSAY RESULTS										
Date 1960	From	To	Core Recov.	From	To	Description	Core Sample	Sample No.	From	To	% Fe HCl Sol.	% SiO_2	% Al_2O_3	% TiO_2	% Mn	% P_2O_5	% S
	44'6"					masses aligned roughly parallel to								T_1		P_2	
		49'6"	4'3"			schistosity (35°-40° to core axis).		M677	45'9"	50'9"	28.3						
	49'6"	50'9"	1'0"			Highly pyritic 5-25%, as f.gr. masses											
	50'9"	51'6"	3"			similar to mag. & as minor veinlets.		M678	50'9"	56'3"	14.0						
	51'6"	53'6"	8"														
	53'6"				56'3"			M679	56'3"	63'0"	2.9						
27/1		56'	2"	56'3"		Mostly barren, f.gr. chloritic & ser-											
	56'					pentinous amph. Schistose in part.											
		61'	2'0"			Little or no pyrite. A few weathered		5A 198	36'	73'	21.2	27.8	6.27	0.87	0.12	0.42	3.31
	61'					(now gossanous) pyrite veins, mainly								0.52	=	0.18	
		63'	6"		63'	along fracture planes.											
	63'	63'9"	9"	63'		Mag-amph-schist, magnetite in small		M680	63'	73'	38.1						
	63'9"	65'9"	2"			amts. only 2-5% pyrite.											
	65'9"	67'9"	4"			69' - Pug zone.											
28/1	67'9"	69'3"	6"		69'6"												
	69'3"	71'	10"	69'6"		High grade, weathered, magnetite ore											
	71'	73'8"	1'8"			of massive granular magnetite, some											
	73'8"				73'	clay surrounding magnetite masses. No pyrite.											
				73'													
		78'	2'4"			Massive, slightly weathered, chlori-											
	78'					tized and serpentinized gabbro-											
		83'	2'10"			amphibolite. Limit of oxidation 93'											
	83'																
		88'	2'11"														
	88'																
		93'	3'0"		93'												
	93'			93'		Massive, green "gabbro-amphibolite"											
						texture typically "doleritic" consists											
		98'	1'5"			of euhedral laths of chloritized											
	98'					hornblende, subhedral altered felspar											
		100'6"	1'0"			(basic plag.). Fine ground mass mainly											

Hole No. 5

198

3.

32 116

DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION		ASSAY RESULTS			
Date 1960	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To	
	100'6"					Qtz.veining 100' ↗ serpentinized. Epidote common as						
		104'	1'6"			irregular masses in ground mass						
	104'	105'6"	1'5"			material. Minor amounts pyr. as						
	105'6"					disseminated grains. Magnetite rare						
		108'	2'7"			as occasional euhedral grains (possibly						
	108'					ilmenite). No evidence of shearing,						
		112'3"	4'3"			material quite massive.						
	112'3"					Minor hematite and limonite on						
2/2		115'	2'9"			fracture planes.						
	115'											
		120'	2'9"			120'-120'9" Magnetite, 5-10% of						
	120'					rock. Pyrite 7-10%.						
		123'	3'0"									
	123'	123'6"	6"									
	123'6"											
		128'6"	5'0"									
	128'6"	130'	1'6"									
	130'	132'	10"									
	132'	133'6"	1'0"			133' - ¼" qtz. vein, 10° to core						
	133'6"	135'	1'2"			axis.						
	135'	135'9"	5"									
	135'9"											
		140'9"	5'0"									
	140'9"											
		145'9"	5'0"									
	145'9"											
		150'9"	5'0"									
	150'9"											
3/2		153'	2'1"									
	153'											

155'

Hole No. 5

199

4.

32 117

Q43

DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION		ASSAY RESULTS			
Date 1960	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To	
		156'6"	3'0"									
	156'6"											
		160'	3'3"									
	160'											
		162'	1'7"									
	162'											
		167'	4'10"									
	167'											
		169'9"	2'9"									
	169'9"											
		176'3"	5'9"									
	176'3"											
		180'3"	3'3"									
	180'3"											
		185'3"	5'0"									
4/2	185'3"											
		189'9"	4'4"									
	189'9"											
		193'6"	3'9"									
	193'6"											
		202'3"	8'3"									
	202'3"											
		204'3"	1'10"									
	204'3"											
		210'6"	6'3"									

Hole No. 5

200

32 118

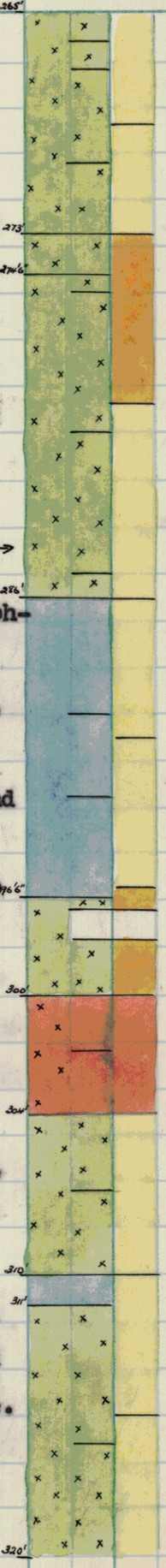
5.

Ø43

DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION		ASSAY RESULTS										
Date 1960	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To	% Fe HCl Sol.	% SiO_2	% Al_2O_3	% TiO_2	% Mn	% P_2O_5	% S
	210'6"														Ti		P	
		213'6"	2'10"															
	213'6"																	
		220'6"	6'2"		220'9"													
	220'6"			220'9"		Finer grained, altered, doleritic												
		223'6"	2'2"			amphibolite.												
	223'6"				224'													
		227'6"	3'2"	224'		Med.grade, f.gr. magnetite & magnetite amph.-schist, some chloritization			M681	224'	231'	43.0						
5/2	227'6"				228'	and serp.												
				228'		High grade magnetite, very little												
					231'	pyrite. Impur. talcose amph-schist.												
				231'		L.green, altered, mag-amph-schist.												
						Mag. 5-10%, pyrite variable from 5-50%			M682	231'	242'6"	13.1						
		237'6"	9'0"			Some qtz-carbonate veinlets // to												
	237'6"					schistosity. Schistosity 30° to core			5B 199	224'	247'6"	22.1	22.6	0.96	0.09	0.08	0.87	6.66
					240'6"	axis.									0.05		0-38	
		242'6"	5'0"	240'6"	242'6"	D.grey, graphitic clay pug zone.												
	242'6"			242'6"		Mag-amph-schist, highly pyritic												
						10-50%. Qtz-carbonate veining. Mag.			M683	242'6"	247'6"	13.6						
		247'6"	5'0"			as masses & fine veinlets parallel												
	247'6"				247'6"	to schistosity (40° to core axis)												
				247'6"		F.gr. high grade magnetite. Small												
		252'6"	5'0"			lenses ($\frac{1}{4}$-$\frac{1}{2}$") "en echelon" in magne-												
	252'6"				254'	tite. Minor qtz.veining. Pyrite 2-5%			M684	247'6"	254'	52.3						
				254'		Altered mag-amph-schist, chloritic												
		257'6"	5'0"			and serpentinous.			M685	254'	259'	17.3						
	257'6"					Pyrite≈Magnetite = 10% approx.												
						264' - 2" 50% pyr.												
		261'	3'6"			Towards end of formation serp. & talc.			M686	259'	264'	11.9						
	261'					proportions increase.												
						270' - 5" black pug zone.			5C 200	247'6"	273'	23.5	24.9	0.40	0.15	0.06	1.30	4.07
															0.09		0-57	

Hole No. 5

DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION	
Date 1960	From	To	Core Recov.	From	To	Description	Core	Sample
		266'	4'0"					
	266'	267'	1'0"					
	267'	270'5"	3'5"					
	270'5"							
					273'			
		275'	4'7"	273'	274'6"	High grade mag. 5-10% pyrite.		
	275'			274'6"		Chloritized & serpentinized mag-		
						amph-schist. Pyrite 5%		
		280'	5'0"			Mag. varies 5-25% of rock.		
	280'							
8/2		285'	5'0"		286'	Shear →		
	285'			286'		Green, f.gr. massive, chloritic amph-		
						ibolite. V.minor quantities iron.		
		290'	5'0"			Pyrite as fine disseminated grains,		
	290'					1-2% of rock, also as veneers on		
		293'	3'0"			slickensided faces. Minor serp. and		
	293'				296'6"	epidote.		
				296'6"		Mag-amph-schist, schistosity 75° to		
		298'	3'10"			axis. Pug material 297'		
	298'				300'			
		302'	4'0"	300'		F.gr. mas. magnetite. 5-15% pyrite		
	302'				304'	Serp. & chlorite in minor quantities.		
				304'		Mag-amph-schist (altered)		
		307'	5'0"			Minor quantities magnetite & pyrite		
	307'							
					310'			
		311'	4'0"	310'	311'	F.gr. massive, chld. & serpd. amph.		
	311'			311'		Mag-amph-schist, highly chloritized		
		316'	5'0"			with small amts. pyrite & magnetite.		
	316'					Schistosity 25-35° to axis.		
						From 324' pyrite increases.		



ASSAY RESULTS										
Sample No.	From	To	% Fe HCl Sol.	% SiO_2	% Al_2O_3	% TiO_2	% Mn	% P_2O_5	% S
						T1		P2	
M687	264'	269'	10.8						
M688	269'	273'	15.1						
M689	273'	279'	36.9						
5D 201	273'	296'	15.8	30.6	4.79	0.72 0.43	0.11	0.55 0.24	3.78
M690	279'	286'	14.6						
M691	286'	291'	6.2						
M692	291'	296'	2.2						
M693	296'	300'	30.7						
M694	300'	304'	42.8						
5E 202	296'	315'	26.5	22.3	2.23	0.43 0.26	0.09	0.89 0.39	5.13
M695	304'	310'	14.7						
M696	310'	315'	24.2						
M697	315'	321'	9.1						

Hole No. 5

202

7.

Q43

DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION		ASSAY RESULTS											
Date 1960	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To	% Fe HCl Sol.	% SiO_2	% Al_2O_3	% TiO_2	% Mn	% P_2O_5	% S	% Cu
		321'	5'0"												Ti		P		
	321'																			
		324'	3'2"						M698	321'	327'	9.1							
	324'				327'															
				327'		Massive magnetite (high grade) 5-10%			5F 203	315'	336'6"	16.7	29.4	6.78	1.07	0.15	0.16	3.25	
															0.64		0.07			
		329'	5'0"			pyrite. Minor amts. chlorite.			M699	327'	331'	49.6								
	329'				331'															
9/2		334'	5'0"	331'		Talcose and chloritized mag-amph-														
	334'					schist, 5% pyrite.			M700	331'	336'6"	9.4							
					336'6"															
		339'	4'6"	336'6"		High grade, pyrite rich magnetite			L876	336'6"	340'6"	53.0							
	339'				339'															
				339'	340'6"	Pyritized mag-amph-schist.			L877	340'6"	345'6"	49.0							
		342'3"	3'3"	340'6"																
	342'3"					High grade massive magnetite. 10%														
						pyrite as f.gr. masses. Some talc.			L878	345'6"	351'9"	52.6							
		347'3"	5'0"			and chlorite (5%?)														
	347'3"				351'9"				5G 204	336'6"	358'	50.7	7.76	1.75	0.38	0.08	0.19	5.67	
		352'	4'9"	351'9"		Green, barren, amph-schist.			L879	351'9"	353'	18.1			0.23		0.08		
	352'				353'															
				353'		High grade, massive, f.gr. magnetite														
		357'	5'0"			Pyrite 10%. Very little sil. mat. At														
	357'				358'	355' large grain ½" diam. chalcopyrite			L880	353'	358'	56.4							Nil.
				358'		Serpentinized mag-amph-schist.														
		361'6"	4'6"		362'				L881	358'	362'	10.7							
	361'6"			362'		Med-high grade pyrite-magnetite ore														
		366'6"	5'0"			and mag-amph-schist.			5H 205	358'	377'	31.3	18.4	1.95	0.36	0.07	0.15	6.75	
	366'6"				367'6"				L882	362'	367'	49.3			0.22		0.07		
				367'6"		Highly pyritic, altered, magnetite-														
		371'6"	5'0"			amph-schist. Schistosity 50-55% to														
	371'6"				372'	core axis. Pyrite 10-25%, f.gr. layers // to schistosity.			L883	367'	372'	18.8							
				372'		High to med. grade iron ore, pyrite														
						variable 5-40%.			L884	372'	377'	42.3							

Hole No. 5

203.

32 121

DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION		ASSAY RESULTS										
Date 1960	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To	% Fe HCl Sol.	% SiO_2	% Al_2O_3	% TiO_2	% Mn	% P_2O_5	% S
		376'6"	5'0"		377'										T_1		P_2	
	376'6"			377'	378'	Magnetite-amphibolite.													
10/2		380'3"	3'9"	378'		High grade, massive magnetite. Little			L885	377'	382'	43.4							
	380'3"					or no amph. Pyrite 5-10%.													
		384'3"	4'0"			375'6"-376'6", 70-80% pyrite.													
	384'3"					379' - 3" 80% pyrite.			L886	382'	388'	57.0							
		389'3"	5'0"		388'				5J 206	377'	400'	37.4	15.5	3.67	0.62	0.10	0.36	5.91
	389'3"			388'		Talcose & chloritic, magnetite-amph-									0.37		0.16		
		392'3"	3'0"			schist. 5-10% pyrite. Magnetite rich			L887	388'	395'	41.3							
	392'3"					in places.													
					395'														
		397'3"	5'0"	395'		F.gr. massive chloritized amphibolite			L888	395'	400'	2.3							
	397'3"					V.small amts. mag. & pyr. Somewhat													
		401'	5'0"			schistose towards end of formation													
	401'				400'6"														
				400'6"		Massive, f.gr. granular magnetite, a			L889	400'	405'	52.1							
		405'9"	4'9"			high grade ore. Amphiboles in v.													
	405'9"					small amts. talcose & chloritic. Py-													
						rite as f.gr. disseminated masses &			L890	405'	410'	55.8							
		410'9"	5'0"			veinlets, 5-15% of rock.			5K 207	400'	420'	52.9	6.49	1.25	0.46	0.09	0.38	4.83
	410'9"					409' - ½" pyr. vein 45° to core axis.									0.28		0.17		
									L891	410'	415'	53.2							
		415'9"	5'0"																
	415'9"					418' - 1" quartz vein.													
									L892	415'	420'	50.3							
		420'9"	5'0"			418'-424' - somewhat higher proportion													
	420'9"					of amphibolite.													
		424'	3'3"						L893	420'	425'	49.2							
11/2	424'																		
		429'	5'0"						L894	425'	430'	53.0							
	429'					429' - Pyrite, 75%													

Hole No. 5

204

DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION	
Date 1960	From	To	Core Recov.	From	To	Description	Core	Sample
							430'	
		433'	2'10"					
	433'							
		438'	5'0"					
	438'							
		441'	2'2"					
	441'							
		446'	5'0"					
	446'							
		449'6"	3'0"					
	449'6"							
		452'9"	3'3"					
	452'9"							
		456'	3'3"					
	456'							
		457'6"	9"					
12/2	457'6"	460'	2'0"					
	460'							
		465'	4'0"					
	465'							
		470'	3'1"					
	470'							
		475'	3'2"					
	475'							
		480'	5'0"					
	480'							
		485'	5'0"					

435'

ASSAY RESULTS										
Sample No.	From	To	% Fe HCl Sol.	% SiO_2	% Al_2O_3	% TiO_2	% Mn	% P_2O_5	% S
5L 208	420'	440'	54.4	6.17	1.76	0.43	0.08	0.48	3.80
L895	430'	435'	53.1			0.26		0.21	
L896	435'	440'	62.3						
L897	440'	445'	62.1						
L898	445'	450'	52.9						
5M 209	440'	460'	52.8	6.70	1.19	0.41	0.06	0.47	4.18
						0.25		0.21	
L899	450'	455'	52.4						
L900	455'	460'	43.9						
B279	460'	465'	33.0						
B280	465'	470'	17.7						
5N 210	460'	480'	37.6	13.4	2.14	0.45	0.07	0.46	5.44
B281	470'	475'	42.2			0.27		0.21	
B282	475'	480'	57.3						
B283	480'	485'	59.7						

Hole No. 5

205 043 10.

DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION		ASSAY RESULTS										
Date 1960	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To	% Fe HCl Sol.	% SiO_2	% Al_2O_3	% TiO_2	% Mn	% P_2O_5	% S
	485'														Ti		Pr	
									B284	485'	490'	58.1						
		490'	5'0"															
15/2	490'	492'	2'0"						50 211	480'	500'	58.9	4.39	1.18	0.49	0.04	0.12	3.72
	492								B285	490'	495'	58.4			0-29		0.05	
		497'	5'0"															
	497'								B286	495'	500'	59.5						
		501'	4'0"															
	501'								B287	500'	505'	56.4						
						506' - Vugh with small chalcopyrite,													
		506'	5'0"			pyrite & quartz crystal lining.			5P 212	500'	525'	56.8	4.08	1.36	0.88	0.07	0.18	4.31
	506'								B288	505'	510'	58.4			0-53		0.08	
		511'	5'0"															
	511'								B289	510'	515'	57.3						
		516'	5'0"															
	516'								B290	515'	520'	58.3						
		521'	5'0"						50 213	525'	537'	11.1	32.6	7.31	0.64	0.10	0.21	2.74
	521'								B291	520'	525'	53.7			0-38		0-09	
					525'														
17/2		526'	5'0"	525'		Massive, serpentinized, l.grey, f.gr.													
	526'	527'3"	1'3"			amphibolite. Minor quantities pyrite			B292	525'	532'	13.9						
	527'3"					and magnetite													
		532'3"	5'0"		532'														
	532'3"			532'		Fibrous, mag-amph-schist, chloritic			B293	532'	537'	7.2						
						and talcose.													
		536'9"	4'6"		537'	5-10% pyrite and magnetite.													
	536'9"			537'		High grade, massive, m.gr. magnetite													
		539'9"	3'0"			talc-chlorite impurity. Only minor													

Hole No. 5

206 Q43 11.

DRILL RECORD

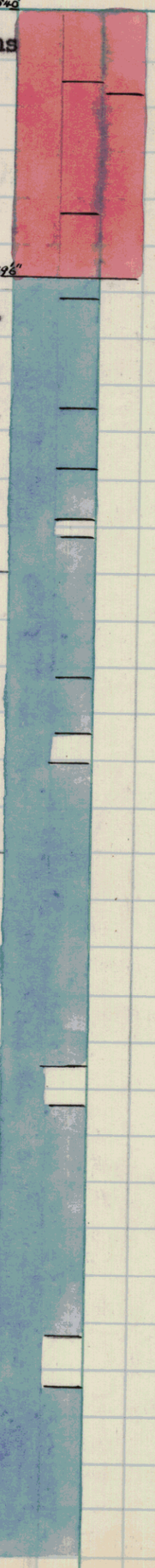
Date 1960	From	To	Core Recov.
	539'9"		
		542'6"	3'0"
	542'6"		
18/2		547'3"	4'9"
	547'3"		
		550'3"	3'0"
	550'3"		
		554'3"	4'0"
	554'3"	556'3"	2'0"
	556'3"	558'9"	1'11"
	558'9"		
		563'9"	5'0"
	563'9"		
		566'9"	2'0"
	566'9"		
		573'4"	7'1"
	573'4"		
		579'	4'3"
19/2	579'		
		589'	8'3"
	589'		

GEOLOGICAL LOG

From	To	Description
		amounts pyrite as disseminated grains and veneers on slickensided faces
	549'6"	
549'6"		F.gr. massive, serpentinous amphibolite. Barren with only minor amts. pyrite, little or no magnetite. Minor qtz. veining. Some "specular" hematite on joint planes.

GEOL. SECTION

Core Sample



ASSAY RESULTS

32 124

Sample No.	From	To	% Fe HCl Sol.	% SiO_2	% Al_2O_3	% TiO_2	% Mn	% P_2O_5	% S
B294	537'	543'	52.9			Ti		P_2	
5R 214	537'	549'6"	57.7	6.37	1.42	1.06 0.64	0.13	0.05 0.02	1.57
B295	543'	549'6"	62.1						

Hole No. 5

207 · 12.
32 125 043

DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION	
Date 1960	From	To	Core Recov.	From	To	Description	Core	Sample
		598'6"	9'6"				598'	
	598'6"							
		601'	2'6"					
	601'	604'	3'0"					
3/3	604'	605'	1'0"		605'			
	605'			605'		Massive magnetite containing smal	605'	
						amts. chloritic f.gr. amph. Pyrte		
		610'	3'4"			5-15% as granular aggregates.		
4/3	610'					614'-615'6" - massive barren amp.		
		615'	3'2"					
	615'				618'			
				618'		Altered, chloritized and talcose	618'	
						mag-amph-schist. Minor amts. pyite		
		623'6"	8'0"		622'6"			
	623'6"			622'6"		Massive, high grade, f.gr. pyrite	622'6"	
						magnetite. Minor amts. chloriteetc.		
		628'3"	5'0"		628'3"		628'3"	
	628'3"			628'3"		F.gr. barren, massive amphibolit.		
		632'3"	4'0"			Chloritized in part, well develoed		
	623'3"				633'3"	actinolite xtals.	633'3"	
				633'3"		Chloritic mag-amph-schist, littl		
		637'3"	4'0"			pyrite. Mag. up to 40% by vol.		
8/3	637'3"						639'	
					639'			
		642'3"	5'0"	639'		F.gr. schistose in part, amphiboite		
	642'3"					very small quantities magnetite. Epi-		
						dote common as veinlets & "vugh"		
		647'3"	5'0"			linings	648'	
	647'3"				648'			
				648'		Magnetite-amphibolite. Barren f gr.	650'	

ASSAY RESULTS										
Sample No.	From	To	% Fe HCl Sol.	% SiO_2	% Al_2O_3	% TiO_2	% Mn	% P_2O_5	% S
						Ti		P	
B296	605'	610'	57.4						
B297	610'	615'	46.2						
B298	615'	618'	47.3						
583	605'	628'3"	48.4	11.3	2.93	1.07	0.09	0.05	3.04
B299	618'	622'6"	30.3			0.64		0.02	
B300	622'6"	628'3"	57.1						
F251	628'3"	633'3"	3.4						
F252	633'3"	639'	41.4						
F253	639'	648'	4.9						
584	628'3"	655'6"	23.5	27.6	8.13	1.04	0.03	0.19	1.78
						0.62		0.08	

Hole No. 5

208

13.

32 126 043

DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION		ASSAY RESULTS										
Date 1960	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To	% Fe HCl Sol.	% SiO_2	% Al_2O_3	% TiO_2	% Mn	% P_2O_5	% S
						amph. ground mass containing patches									Ti		P	
						1"-2" diam. high grade magnetite.			F254	648'	655'6"	45.6						
		656'3"	4'3"		655'6"													
	656'3"			655'6"		Barren, pyritic, serpentinous and												
						chloritized massive amph. Epidote			F255	655'6"	659'6"	19.4						
		661'	4'9"		659'6"	rich. Minor qtz-carbonate veining.												
	661'			659'6"		Mag-amph-schist, talcose & chloriti			F256	659'6"	664'2"	23.0						
						zed highly pyritic. Med. grade ore.												
		664'2"	3'1"		664'2"				585	655'6"	669'2"	16.1	30.0	8.99	0.88	0.06	0.68	2.98
	664'2"			664'2"		Amph-schist, only v.minor amts. mag.			F257	664'2"	669'2"	7.0			0.53		0.30	
						and pyr. Devel. small black horn-												
		669'2"	5'0"		669'2"	blende xtals. in veins.												
9/3	669'2"			669'2"					F258	669'2"	675'	36.2						
						Mag-amph-schist. Altered f.gr.												
		674'2"	3'0"			amph-schist and magnetite in alter												
	674'2"	675'8"	1'6"			nate bands (approx. 35-40° to core												
	675'8"					axis) 2-10 mm. thick.			F259	675'	680'	33.4						
		680'8"	5'0"						586	669'2"	690'	34.9	12.7	0.93	0.28	0.04	0.05	11.34
	680'8"					671-674' F.gr. pyrite, 90% of rock									0.17		0.02	
						with minor amounts chalcopyrite.			F260	680'	685'	38.9						
		685'8"	5'0"			Little or no magnetite.												
	685'8"																	
		687'5"	1'7"						F261	685'	690'	31.0						
	687'5"																	
		691'3"	3'10"															
	691'3"								F262	690'	695'	57.0						
		695'	3'4"						587	690'	710'	41.6	10.6	1.79	0.48	0.05	0.02	7.27
	695'														0.29		0.01	
									F263	695'	700'	38.9						
		698'	3'0"															
10/3	698'	700'9"	2'9"															
	700'9"								F264	700'	705'	20.6						
		705'9"	5'0"	706'														

Hole No. 5

209

14.

32 127

043

DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION		ASSAY RESULTS										
Date 1960	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To	% Fe HCl Sol.	% SiO_2	% Al_2O_3	% TiO_2	% Mn	% P_2O_5	% S
	705'9"			706'		Highly pyritic, massive high grade									Ti		P	
		710'3"	4'0"			magnetite, minor amts. talc and chlorite. Serpentine on fracture planes.			F265	705'	710'	50.0						
	710'3"								F266	710'	715'	55.0						
		714'6"	4'0"															
	714'6"								F267	715'	720'	58.9						
		719'	4'6"						588	710'	726'	58.0	3.75	1.50	0.70 0·42	0.09	0.04 0·02	3.85
	719'					724' - 2" 5% chalcopyrite.													
		724'	4'3"		726'				F268	720'	726'	59.7						
	724'	726'3"	2'3"	726'		Chloritic amphibolite, secondary	726'		F269	726'	730'	6.3						
	726'3"				728'	devel. of hornblende xtals in veinlets. Little mag. and pyr.	728'												
		731'6"	3'2"	728'		Magnetite - amphibolite.													
11/3	731'6"				733'		733'		F270	730'	735'	32.0							
		735'9"	4'3"	733'		Barren, massive, amphibolite (altered			589	726'	740'	14.9	35.9	10.86	1.05 0·63	0.02	0.07 0·03	0.79
	735'9"					chloritic & serpentinous). Minor													
		738'3"	2'6"			pyr. 338'6" - ½" qtz. vein.			F271	735'	740'	4.6							
	738'3"																		
		742'	3'0"		742'3"														
	742'			742'3"		Magnetite & talcose amphibolite	742'3"		F272	740'	745'	45.9							
		745'3"	3'3"			Minor amts. pyrite.													
	745'3"	747'6"	2'3"			743'6" - Small veinlet chalcopyrite.													
	747'6"								F273	745'	750'	54.0							
		750'9"	3'3"		750'9"				590	740'	763'	45.1	14.3	4.22	0.64 0·38	0.09	0.19 0·08	1.14
	750'9"			750'9"		F.gr.barren, serpentinized & chloritic	750'9"												
					753'	amphibolite.	753'		F274	750'	755'	22.3							
		755'5"	3'5"	753'		Mag-amph-schist (altered)													
14/3	755'5"				757'		757'												
				757'		Magnetite, only small amounts talc			B275	755'	760'	48.6							
		760'3"	4'10"			and chlorite.	760'												

Hole No. 5

210

15.

32 128

Q93

DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION	
Date 1960	From	To	Core Recov.	From	To	Description	Core	Sample
	760'3"						760'	
					763'		763'	
				763'		F.gr. massive, chloritized amphibolite,		
		767'5"	7'2"			slightly schistose in parts. Devel.		
	767'5"					of l.green actinolite xtals. in vein-		
						lets and as vugh linings.		
		772'5"	5'0"			Minor amts. pyrite, magnetite.		
	772'5"					epidote and quartz (veins).		
		776'	2'8"					
	776'							
		779'6"	3'6"					
15/	779'6"							
		782'8"	3'2"					
	782'8"							
		786'7"	3'11"					
	786'7"	788'	1'3"					
	788'	789'6"	1'6"					
16/3	789'6"							
		795'6"	3'8"					
	795'6"							
		798'6"	2'0"					
	798'6"							
		801'9"	3'1"					
	801'9"							
		805'2"	3'5"					
	805'2"							
		808'9"	2'8"					
	808'9"							
		813'9"	5'0"					
17/3	813'9"						813'	

ASSAY RESULTS				
Sample No.	From	To	% Fe HCl Sol.	
F276	760'	763'	60.9	

Hole No. 5

DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION		ASSAY RESULTS										
Date 1960	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To	% Fe HCl Sol.	% SiO_2	% Al_2O_3	% TiO_2	% Mn	% P_2O_5	% S
		818'9"	5'0"		818'6"		815' 818'6"								Ti		P	
	818'9"			818'6"		Altered (talcose & chloritic) magnetite amphibolite, generally massive, schistose in part. Barren and iron rich areas alternate. Much epidote developed with only small amounts pyrite.			F277	818'6"	823'	23.9						
		823'	4'3"																
	823'								F278	823'	828'	39.9						
		828'	5'0"						591	818'6"	843'	29.6	27.0	6.71	1.12 0.67	0.09	0.04 0.02	0.69
	828'								F279	828'	833'	36.1						
		833'	5'0"		833'		833'												
	833'			833'		F.gr. barren massive amphibolite			F280	833'	836'6"	8.1						
					836'6"		836'6"												
		838'	5'0"	836'6"		F.gr. mas. mag-amph. Pyr. about 5%													
	838'					Mag. c.gr. in locally developed rich patches 2-10 inches. Minor qtz-carb. veining.			F281	836'6"	843'	32.1						
		843'	5'0"		843'		843'												
	843'			843'		F. gr. generally massive, barren amph. Schistose in part. Pyr. as c.gr. veinlets, 2-5 mm width. Mag. not more than 5%. Qtz-carb. veining 847' devel. of much epidote.			F282	843'	850'	6.4						
		848'	5'0"																
	848'								F283	850'	859'	12.1						
		851'4"	2'10"																
18/3	851'4"								592	843'	871'2"	16.9	34.7	7.83	0.93 0.56	0.07	0.09 0.04	1.21
		855'2"	3'10"																
	855'2"																		
		858'	2'10"																
	858'				859'		859'		F284	859'	867'1"	32.0							
		861'	3'0"	859'	860'6"	Talcose magnetite-amph. High grade magnetite.	860'6"												
	861'			860'6"	862'	D.green, mag-amph. Prop. mag. small Pyr. varies 1-5%													
		865'8"	4'8"	862'		Talcose, mag-amph, a low grade iron ore. Small bands, f.gr. massive													
	865'8"				867'1"	chloritic amph. Pug zone fault 866-867'.	867'1"		F285	867'1"	871'2"	15.8							
		867'1"	1'2"	867'1"		"Puggy" d.green, highly chloritized & sheared amph-schist. Fairly barren.	870'												
	867'1"																		

Q93

Hole No. 5

212

17.

32 130

Q93

DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION		ASSAY RESULTS			
Date 1960	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To	
		871'2"	2'8"		871'							
	871'2"			871'		D.green, f.-m gr. highly chloritied amphibolite, schistose in part.						
		876'2"	5'0"			Pyrite 5%, generally as coarse						
	876'2"					xtalline grains. Little or no ma-						
		881'2"	4'2"			netite. Small xtal. lined voids common. Minor amounts of qtz. fes.						
21/3	881'2"					material as veinlets and irregula granular masses.						
		886'	4'10"									
	886'											
		890'3"	4'3"		890'							
	890'3"			890'		F.gr. barren, massive chloritic aph-						
		895'3"	5'0"			ibolite. Epidote common as irreglar masses often surrounded by a halo						
	895'3"					of quartz-felspar (some carbonate)						
		899'3"	4'0"			material. Pyrite limited to c.gr highly chloritic schistose zones,as						
	899'3"	900'3"	1'0"			c.gr. cubes etc. Quartz (some fes.						
	900'3"	902'6"	2'0"			& poss. carb). as veins and irreglar						
	902'6"	903'6"	1'0"			masses at 898', 904' & 905', 901.						
22/3	903'6"											
		908'6"	5'0"									
	908'6"											
		913'6"	3'5"									
	913'6"											
		917'4"	3'10"									
	917'4"											
		922'4"	3'4"									
	922'4"											
		925'5"	3'1"									

Hole No. 5

32 213 131

18.

Q93

DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION		ASSAY RESULTS			
Date 1960	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To	
	925'5"											
		929'6"	4'1"									
23/3	929'6"											
		932'	2'6"									
	932'											
		934'	1'9"									
	934'	937'	2'10"									
	937'					Mag-amph-schist 6" 937'						
		939'	2'0"			Puggy, sheared, fault? zones Fine black, iron rich, clay.						
24/3	939'											
		944'	3'2"									
	944'											
		949'	4'0"			947'-950'6" - Talcose & chloritic?						
	949'					magnetite. 50% magnetite.						
		953'	4'2"									
25/3	953'											
		958'	4'6"									
	958'											
		963'	5'0"									
	963'					½" Qtz. Vein 40° to axis.						
					967'	Minor amts. talcose magnetite.						
		968'	5'0"	967'		F.gr. l.green barren chloritic am-						
	968'					phibolite. Minor amts. mag. as fine disseminated grains. Minor qtz.						
					972'	epidote as irregular veinlets.						
		973'	5'0"	972'		Chloritized mag-amph-schist. Little						
	973'					mag.						
					976'6"							
		978'	5'0"	976'6"		F-m grained, virtually barren						
28/3	978'					chloritized amphibolite, schistose						

Hole No. 5

214

32 132

DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION		ASSAY RESULTS			
Date 1960.	From	To	Core Recov.	From	To	Description	Core	Sample	Sample No.	From	To	
						in parts. Magnetite sparse, as fine						
		983'	5'0"			scattered grains.						
	983'					Epidote, qtz. present in small						
						amounts. Pyrite sparse 2-3%.						
		988'	5'0"									
	988'											
		992'	4'0"									
	992'				994'							
		995'9"	3'9"	994		Talc-magnetite-schists. Pug zone 6"						
29/3	995'9"				996'	10-25% mag. "Puggy" in shear zone						
				996'		C.gr. green, highly chloritic amph-						
		1000'9"	4'4"			schist. Pyr. ≈ 10%. Scattered qtz-						
	1000'9"				1002'6"	fels. grains (porphyroblasts?) No mag. Schistosity 45° to axis.						
				1002'6"		Light green to grey, highly chloritic						
		1005'9"	5'			amph-schist containing appreciable						
	1005'9"					quantities (up to 50%) qtz-felspar						
						material as grains, veinlets & bands						
		1010'	4'3"			In parts banded & lenticular struc-						
	1010'					tures produce "gneissic" texture.						
		1014'	4'0"			Pyrite 2-5%. Mag-nil.						
	1014'					Schistosity 30-40° to axis.						
30/3		1017'	3'0"									
	1017'											
		1020'6"	3'6"		1020'6"							

END OF HOLE