

DIAMOND DRILL REPORT

Hole No. _____ Location _____ CO-ORDINATES: N 7250 E 13500Evaluation Collar 3992 Direction of hole down Dip of hole verticalDate Started Sept. 9/58 Date finished Oct. 24/58 Large core from 4" 0-95 to 95-100#1756 Oriental Borehole Small core from _____ to _____

DATE	CORE RECOVERY			GENERAL	ECONOMIC	
	DEPTH		% REC.			
	FROM	TO				
				0-95 Overburden		
				95-937-600 calc. sil. tuff. 7.5' - 10' at base no mineral. Grey - yellow. Fractured. Calc. sil. limestone. 122.5-178.5 section with a few buff cl. sil. gran. - cl. sil. gran. - cl. sil. gran. - cl. sil. gran. 155-166 sil. gran. - cl. sil. gran. - cl. sil. gran. - cl. sil. gran. 187-439 sil. gran. - cl. sil. gran. - cl. sil. gran. - cl. sil. gran. shaking - sh. gran. - cl. sil. gran. - cl. sil. gran. - cl. sil. gran. cl. sil. gran. - cl. sil. gran. - cl. sil. gran. - cl. sil. gran. present. ill. fracture at 9' to hearing		
				343-352.5 buff. brown. porphy. tuff. 3-5' to small. Stop and cut out to 343' cl. sil. gran. - cl. sil. gran. - cl. sil. gran. - cl. sil. gran. Pot. sil. gran. - cl. sil. gran. - cl. sil. gran. - cl. sil. gran. 2" tuff. sil. gran. - cl. sil. gran. - cl. sil. gran. - cl. sil. gran.		
				439-514 sil. gran. - cl. sil. gran. - cl. sil. gran. - cl. sil. gran. fractures & along shear planes - also probably bedding		
				514-555 sil. gran. - cl. sil. gran. - cl. sil. gran. - cl. sil. gran. 557-588.3 sil. gran. - cl. sil. gran. - cl. sil. gran. - cl. sil. gran. 588-597.5 sil. gran. - cl. sil. gran. - cl. sil. gran. - cl. sil. gran.		
				600-616 Interbedded ark. sil. gran. - cl. sil. gran. & sil. gran. - cl. sil. gran. - cl. sil. gran. - cl. sil. gran. interbedded. Predominantly ark. sil. gran. material. Patches of sil. gran. - cl. sil. gran. - cl. sil. gran. - cl. sil. gran. A few calc. sil. gran. - cl. sil. gran. - cl. sil. gran. - cl. sil. gran.		

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DATE	CORE RECOVERY			GENERAL	ECONOMIC
	DEPTH		% REC.		
	FROM	TO			
	95	100	1.5	642-658 Andesite tuff: 7.9	Dark grey green
	100	101	1.4	4.000 black. Microfossils to	interact. filling
	101	102	2.2	all chert alteration. Patches of	microfossils, brachiopods
	102	110	1.0	to 1021. Brownish red tuff. Partly	laminar to 6.20
	110	112	0.9	3.4 in. with fine to - felds green to 6.20-23	
	112	113	1.1	6.23-6.23 consid. calcite in matrix - as grains	
	113	119	5.7	in matrix. Consid. fracture. calcite +	
	119	129	10.5	epidote veining. Heavy siliceous - buff colored -	
	129	136	6.2	6.42-6.58	
	136	140	3.4		
	140	146	2.6	6.58-6.74 (active) Amorph. Andes. aggl. Above tuff a	
	146	153	11.3	matrix. Flat numerous. Open. Partly	
	153	156	2.3	showing staining. Above tuff. In tuff	
	156	166	10.1	along with interd. silica & epidote alteration	
	166	176	10.2	large members only, a few small frags.	
	176	186	9.4	fractured as above	
	186	196	9.5		
	196	206	10.1	6.74-7.78-7.83 pinkish horizon	
	206	212	6.1	6.78-6.78 brownish corals, coarse matrix	
	212	222	10.1	fractured - calcite veining - consid.	
	222	226	3.6		
	226	228	1.1	7.78-7.84 chert, black, very dark	fractured calcite
	228	234	3.9	7.85-7.95 " " " "	" "
	234	244	7.3		
	244	249	1.7	7.95-10.07 (active) Fairly co.	fractured -
	249	254	2.6	calcite veining. Patches of silica	
	254	260	3.0	6.95-2.5-9.70 reddish-brown porphy. brachiopods. Felds	
	260	266	4.0	4.0. Consid. fracture - chert & calcite	
	266	271	3.3	fractured with quartz & few frags. 9.70-9.73	

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	DEPTH					
	FROM	TO				
	271	277	2.9		A few frags throughout 973 →	all types
	277	280	3.3			
	280	283	3.1		1007-1057-1092.5 Volc. coal. Dark matrix	
	283	287	3.3		Some fine fragments of rock. A few flecks	
	287	292	4.1		1057-1101 All types frags. Some sections	
	292	297	5.1		Volc. out frags. No oceans. calcite filled	
	297	301	3.3		Fracture. Considerable silic. marking throughout	
	301	311	10.0		Consid. fracture 1057 → 1071	
	311	316	5.0			
	316	320	2.6			
	320	326	6.4		1092.5-1242 Volc. coal. volc. pit & pit matrix	
	326	332	5.8		Matrix inter. till in matrix. Solutions are	
101	332	342	10.0		partially altered and a piece bedded development	
101	342	344	1.5		70-90% porosity, coarse material. Cons. disconformity	
101	344	351	6.4		pyrite & oceans. fracture only. Bleached pale grey &	
	351	354	3.6		altered. 6" massive pyrite 1092.5-1093, also black Pb-Zn	
	354	361	11.9		Oceans. black Pb-Zn 1093-1097	
	361	364	1.7		Several black Pb-Zn 1097-1099	
	364	367	2.3		1099-1101 Pb-Zn ore. 16" massive replacement	
	367	377	9.4		1101-1137 Oceans. black, black & variegated Pb-Zn	
	377	384	2.1		1137-37 more inter. till in matrix	
	384	390	7.6		1137 is a. of bleached & altered zone. Also	
	390	400	9.3		also pyrite 1137 →	
	400	410	10.0		1140.5-1141 (Pb-Zn) out-cropping	
	400	410	10.0		Disconformity 1140.5 → matrix	
	410	412	9.7		Disconformity - till.	
	412	422	6.8		1154-1150 section of bedded sandstone	
	422	424	2.1		65-70° to core	
	424	432	7.9			
	432	440	8.1			

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	DEPTH					
	FROM	TO				
	440	450	10.2		1180-1229	Coar. plus gravel. from Dacite matrix with coarse reddish bedded sandstone & minor bedded 1189-1191
	450	454	1.3			
	454	460	6.0			
	460	470	10.0		1200-1205	chilled black dyke & fractures - calcite
	470	480	10.0			
	480	490	10.2			
	490	497	7.3		1229-1242	Some sand 1141-1180 some sorted & bedded. Bands of sandstone 30' bedded 1231-32
	497	507	10.0			
	507	517	9.5		1233.5-1236	Bedding 65° to 70°
	517	527	9.0			
	527	537	10.2			
	537	542	5.0		1242-1262	Dacite stuff lined with hyal. injections or boulders 1242-43, 1244-45.5, 1246-47, 1251-52, 1253.5-54, 1254.5-1255.5
	542	550	7.1			
	550	560	10.2			
	560	566	5.5			
	566	570	4.0			
31	570	580	9.5			
	580	584	4.0			
	584	588	4.2		1262-1262.5	Grey chert introduction. Dense.
	588	593	3.4			
	593	603	10.3		1262.5-1268	Interbedded volc. grit with chl. felds. stuff matrix and bands of greyish sandstone fine to med. gr. Bedding 50° to 60° - consid. dissem. pyrite in sandstone, less in volc. grit. Consid. silicified.
	603	612	9.1			
	612	616	2.3			
	616	625	9.0			
	625	635	10.4			
	635	640	5.0		1268-1272	Trachyte sill. Grey-brown, felds & a few quartz. Chert & fractures - calcite & epidote weathering to v.
	640	649	8.6			
	649	650	0.8			
	650	653	3.1			
	653	659	4.6			

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	DEPTH					
	FROM	TO				
	659	669	8.7		1312-1363 Intermediate Loc. wall zone	
	669	673	5.3		1312-1323 Chlorite with buff. slightly gritty	
	673	679	2.6		few beds, grain. A little mixed types	
	673	681	1.6		small frag. mixture to 1315'	Consid.
	681	685	3.9		Chlorite (1317-1323) fractured - calcite veining	
	685	690	7.0	very buff	1323- amyo (calcite) and some buff with	
	690	692	2.3	much	split through in thin buff shales - colored	
	692	698	4.6		very few frags. 1340-	
	698	703	4.2		1356-66 gray buff & reddish brown siliceous	
	703	708	6.1		zone. Masking original rock. L.A. 70 fine	
	708	710	2.0		pyrit. 1356-58. Siliceous a band of siltstone	
	710	712	7.2		1358-58 carbonaceous gray 1358-60	
	712	720	7.0			
	720	722	1.7		1363-1365-1367 Siltstone, gray buff & green	gray hard &
	722	727	4.1		buff. Fractured - calcite veining	becomes
	727	728	1.0		ophid. U. coarse sandstone	more grit 1378-
	728	731	3.4		contacts of fine, gritty soft inter. buff	1401-02, 1403-0
	731	739	7.2		contacts about 90° to each other.	
	739	744	5.2			
	744	751	1.7			
	751	761	1.9			
	761	768	7.6		1407 End	
	768	774	6.5			
	774	780	5.1			
	780	782	2.1			
	782	784	1.6			
	784	785	0.5			
	785	790	3.9			
	790	800	9.9			
	800	810	10.1			

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DATE	CORE RECOVERY			GENERAL	ECONOMIC
	DEPTH		% REC.		
	FROM	TO			
	710	819	9.7		
	819	854	5.6		
	821	725	0.9		
	825	835	10.1		
	835	841	6.2		
	841	851	10.1		
	851	861	10.4		
	861	870	7.4		
	870	877	7.7		
	877	879	2.1		
	879	880	0.7		
	880	881	4.5		
	881	890	6.7		
	890	894	2.6		
	894	896	2.5		
	896	899	3.2		
	899	901	5.3		
	901	910	7.0		
	910	920	10.0		
	920	921	1.1		
	921	931	11.4		
	931	938	6.9		
	938	942	2.7		
	942	948	5.2		
	948	951	3.2		
	951	954	3.4		
	954	961	5.6		
	961	962	2.1		
	963	965	0.6		
	965	967	1.6		

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DATE	CORE RECOVERY			GENERAL	ECONOMIC
	DEPTH		% REC.		
	FROM	TO			
	76.4	94.1	5.8		
	77.0	98.0	10.3		
	98.0	98.9	9.1		
	98.9	99.9	10.0		
	99.9	100.9	10.1		
	100.9	101.9	10.1		
	101.4	102.7	7.9		
	102.7	103.7	10.2		
	103.4	104.7	10.4		
	104.7	105.7	10.1		
	105.7	106.5	8.8		
	106.5	106.7	2.1		
	106.7	107.1	3.8		
	107.1	107.3	1.6		
	107.3	108.0	6.6		
	108.0	109.0	10.2		
	109.0	109.7	9.5		
	109.7	110.9	10.2		
	110.9	111.7	8.0		
	111.7	112.7	10.2		
	112.7	113.7	10.2		
	113.7	114.7	12.1		
	114.7	115.7	10.2		
	115.7	116.7	10.1		
	116.7	117.2	8.3		
	117.5	118.5	10.0		
	118.5	119.0	4.6		
	119.0	119.2	2.0		
	119.2	119.4	1.9		

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DATE	CORE RECOVERY			GENERAL	ECONOMIC
	DEPTH		% REC.		
	FROM	TO			
	1194	1202	6.9		
	1202	1205	0.8		
	1205	1206	1.3		
	1206	1215	7.7		
	1215	1225	2.8		
	1225	1235	10.0		
	1235	1238	1.1		
	1238	1242	1.7		
	1242	1247	4.8		
	1247	1251	3.9		
	1251	1254	3.0		
	1254	1264	9.3		
	1264	1269	3.1		
	1269	1279	9.2		
	1279	1288	7.5		
	1288	1294	5.5		
	1294	1302	4.7		
	1302	1307	1.2		
	1307	1312	1.5		
	1312	1318	1.9		
	1318	1323	1.1		
	1323	1328	1.9		
	1328	1335	5.7		
	1335	1341	3.1		
	1341	1351	8.3		
	1351	1360	5.1		
	1360	1365	7.0		
	1365	1370	1.4		
	1370	1380	6.3		

Small core from _____ to _____

H. 1756.

[illegible]