

DIAMOND DRILL REPORT

Hole No. _____ Location _____ CO-ORDINATES: N 9250 E 12,500
 Evaluation Collar 3900 Direction of hole Down Dip of hole vertical
 Date Started June 14/56 Date finished June 21/56 Large core from _____ to _____
 #1568 Oriental Surface Small core from _____ to _____

DATE	CORE RECOVERY			GENERAL	ECONOMIC
	DEPTH		% REC.		
	FROM	TO			
				0 - 119 Overburden	
				119 - 157-485-529 Eng. green bag. Andesite Tuff. Calcareous. Limitedly argill. hole 1559 Calcareous lamination - planar some shear & fractures - all in same direction - more or less flat as strongly laminated as in hole 1559. Fractures & shearing in schist less steep than hole 1559. 60-70' & core. Heavy siliceous interbed. 485-529. 485-529 Chert trans. banding, when rare. Also small carbonate interbed 489-511 dark gray & aggl. zone.	
				529-532 Reddish brown Kfs. silice. porphy. trachyte Silt. 1-2% Small beds. only.	
				532-537 Altitud. dacite tuff with siliceous lumps & siliceous lumps. Coarse appearance due to Dark arkosic mixture. Some shearing. Coarsened fractures Heavy hematite staining 532-535.	
				537-583 Arkose congl. Co. gl. mixture. Coarsened fractures 537-540.	
				583-602-617 Thin colored trachyte silt. Tuff. Porphyritic (2-3% beds) 583-594 - beds gradually fade to light orange surface, away from margins. Fairly massive & Oolitic fracture.	

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	FROM	TO				
B.P. Rock					617 - 630	Dark grey-green diorite tuff. Some chert alteration. Also some yellow-green alteration Consist. streaky & banded reddish & buff siliceous 622-623 Band of trachyte. Fractured.
	127	137	2.8	88		
	137	147	6.2	62		
	147	157	8.8	88		
	157	163	1.5			
	163	166	2.7	47	630 - 637	Arkose grit. Coarse even grained Intermingling of dolomite in arabi patches 634-637. Fractured & coarse.
	166	176	9.7	97		
	176	186	8.4	84		
	186	196	8.2	88		
	196	202	15.2	72	637 - 706	Grey-green diorite tuff. Some streaky siliceous alteration. Looks like F.W. type. Patches of chert - reddish staining of felsic. Kematite staining 658→
	202	207	11.7	67		
	207	212	1.4			
	212	216	3.4			
	216	219	1.1	59	681-684	Arkose sand, dyke & sill. Black, /gr, amygd. Boulders 681
	219	227	4.8	60		
	227	232	3.7	74	682-687	Arkose sand, flow & sill. Black, /gr. Kematite staining. Calcite veining.
	232	242	6.1	61		
	242	252	7.6	76		
	252	256	2.5	62	706 - 720	Arkose sand, co. grit. Calcite veining. 707.5-709 Chilled grey dyke material - streaks of fine grit in dyke whitish. Fractured. Calcite veins.
	256	260	1.5			
	260	267	1.5			
	267	268	3.0	56		
	268	269	1.2			
	269	275	4.7	79	720 - 736-977-1065	Diorite tuff as 637-706 siliceous, chert, contains 728→776 also staining. Minor fractured. Fairly co. felsic. 776→siliceous. Staining in patches. Alteration to blackening in section 804→alteration is chert type. Fairly even texture. Blackening 825→ Dark brownish siliceous. 852→massive heavy. 889-915 Dark reddish-brown trachyte sill. Sil (2-3%) plume indefinite contacts. Few quartz. Fractured. Calcite veining - tiny.
	275	282	1.7			
	282	286	3.4	93		
	286	295	5.4			
	295	296	1.4	100		
	296	304	8.5	100		
	304	314	7.0	90		

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	DEPTH		% REC.			
	FROM	TO				
	314	324	8.2	88	715-923 Bleached, altered section of dacite tuff. Some yellowish green alteration. Contacts indeterminate. Much trachyte material. Also some siliceous hematite staining. Occass. small chips of frag.	
	324	328	11.4	100		
	328	338	10.2	100		
	338	342	2.1			
	342	345	1.2	47	923-954. Dark reddish brown trachyte silt. Much harder than dacite. Fractured. Tiny calcite veining.	
	345	355	8.9	89		
	355	365	7.0	90		
	365	368	2.8	97		
	368	375	5.8		954-1065 Bleached, altered, siliceous & marked dark brownish hematite staining. Reddish brown & greenish buff color. Section with altered felds. Fractured with tiny calcite veining. Occass. small frag & chips.	
	375	376	1.0			
	376	378	2.3	91		
	378	383	1.7			
	383	390	5.9	88	1034- a few frags. Thinnest - all types of inter. frags. Occass. red type. About 2-3 % frags. Still bleaching & alteration - no hematite staining. Below 5% frags. 1051-.	
	390	400	9.2	94		
	400	405	5.2			
	405	409	4.0	100		
	409	416	5.1	94	1065-1084-1221. Volc. congl. Still consid. altered dacite matrix, also ortho quartz matrix. Frags. from 50-75% block. Occass. black pyrite. Dacite not distributed evenly, but in sections. Minor fractures - calcite. More reddish types frags 1120-1140. Also occass. granite type. Bleached grey & pale green. 1140-1200. Matrix in small sections broken, fractured, or highly associated with dacite. Only chloritic alteration of dacite 1200-.	
	416	426	10.2	100		
	426	432	5.2	95		
	432	439	7.5	100		
	439	450	10.0	91	1221-1308.5 Same volc. congl. as 1065-1221 but almost no dacite. Matrix is a fine grained greyish quartz.	
	450	455	1.1	84		
	455	465	10.1	100		
	465	475	10.0	100		
	475	479	4.1			
	479	481	1.2			
	481	485	1.1	95		
	485	487	1.4			
	487	496	7.4	89		
	496	498	1.5			

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	FROM	TO				
	495	499	2.2		Still occas. granitic frag. to 1253. Also complete range of textures. Some sections have no greyish grit & matrix is vol. grit. Distribution of greyish grit is erratic. Flecks pyrite. Occas. fleck Pb-Zn. Blob Pb-Zn at 1237'	
	499	505	2.7	56		
	505	511	2.3			
	511	513	1.0	41		
	513	515	2.8			
	515	517	2.4			
	517	520	1.3			
	520	523	1.6	61		
	523	527	4.0			
	527	532	2.3	63		
	532	540	3.0	50	Fractured - calcite veining	
	540	548	8.0	100		
	548	555	7.5		1252-1258 Sand of yellowish-green altered f. in inter. stuff with small grains of f. calcite sili. dark. Also faint. 1.4% introduced chert - erratic. also streaks of same. altered stuff in cong. from 1258 →. flecks	
	555	560	5.0	100		
	560	569	9.9	99		
	569	576	7.7	100		
	576	581	5.8	100	1266-1296 Several blebs Pb-Zn, also 1" veinlets at 1272.5 & 1276, 1" veinlet at 1279.5. Pyrite also more abundant in blebs, & disseminated patches of veinlets	
	581	585	2.2			
	585	591	1.8	70		
	591	599	7.5	100		
	599	607	2.5	100	1296-1306 Quite a few tiny veinlets & flecks Pb-Zn, & pyrite. Also numerous patches of chert. A altered inter. f. stuff as 1253-1258 in matrix throughout.	
	607	611	9.8	98		
	611	622	11.1	85		
	622	630	8.6			
	630	634	4.1	100	1308.5-1349-1374 Inter. aggl. (calcite) with frags in somewhat gritty f. dark grey-green inter. stuff. Matrix sil. development. That is all. Fractured - calcite veining. Bleached greyish 1367-74, as sill is approached.	
	634	649	5.5	100		
	649	653	3.4			
	653	659	6.7	100		
	659	669	10.0	100		
	669	674	5.5			

1301
1306
1301



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	DEPTH			% REC.		
	FROM	TO				
	667	675	6.7		1374-1380 Buff colored porphy. trachyte soil. 1-2% felds. phenos. in matrix - a few Calcite concretions Open vesicles soft altered grey, green and quartz. Lath at 1380' -- could be top of basalt / rhyolite.	
	675	677	1.0	100		
	677	685	1.9	100		
	685	697	10.1	100		
	697	700	2.5			
	700	706	5.9			
	706	709	3.2	100		
	709	718	7.0			
	718	719	1.2	100		
	719	729	10.5	100		
	729	734	10.3	100		
	734	745	5.4	100		
	745	749	4.5			
	749	756	7.5	100		
	756	758	1.7			
	758	766	8.4	100		
	766	773	7.5			
	773	776	3.6	100		
	776	782	5.1			
	782	796	11.3			
	796	797	0.1	98		
	797	797	10.3	100		
	797	804	7.6	100		
	804	812	7.1	100		
	812	814	1.7			
	814	818	4.0			
	818	822	4.0	97		
	822	830	6.8			
	830	832	1.3	81		
	832	839	5.9	99		
					1380' End of Hole	

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DATE	CORE RECOVERY				GENERAL	ECONOMIC
	DEPTH		% REC.			
	FROM	TO				
	839	842	2.8			
	842	847	2.5	70		
	847	852	2.4			
	852	857	3.2	56		
	857	867	7.6	97		
	867	877	7.4	100		
	877	879	1.9			
	879	883	3.9	100		
	883	884	1.1			
	884	891	7.6	100		
	891	896	4.4			
	896	900	3.9	92		
	900	903	2.3			
	903	910	6.0	83		
	910	915	1.9	38		
	915	923	5.3	66		
	923	928	5.3			
	928	934	5.7	100		
	934	938	3.6			
	938	947	3.1			
	947	948	0.9			
	948	945	2.4	100		
	945	951	6.5			
	951	954	2.9	100		
	954	964	10.6	100		
	964	970	4.5	82		
	970	977	7.4	100		
	977	987	9.0	94		
	987	997	9.2	100		

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H 1568

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	DEPTH		% REC.			
	FROM	TO				
	997	1001	5.4	100		
	1001	1009	8.3			
	1009	1011	2.2	100		
	1011	1020	8.4			
	1020	1023	3.7	97		
	1023	1028	4.8			
	1028	1030	2.2			
	1030	1033	3.1			
	1033	1035	1.8	100		
	1035	1045	10.1	100		
	1045	1055	10.0	100		
	1055	1061	6.6			
	1061	1066	5.0	100		
	1066	1071	5.0			
	1071	1073	2.0	100		
	1073	1084	10.6	96		
	1084	1089	4.1			
	1089	1090	1.7	97		
	1090	1099	2.9	100		
	1099	1104	5.3			
	1104	1107	2.8	100		
	1107	1117	10.3	100		
	1117	1127	10.0	100		
	1127	1137	10.2	100		
	1137	1139	2.4			
	1139	1142	2.9	100		
	1142	1146	3.4			
	1146	1151	5.1	100		
	1151	1161	10.2	100		

Small core from _____ to _____

[illegible]

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H. 1568

DATE	CORE RECOVERY				GENERAL	ECONOMIC
	DEPTH		% REC.			
	FROM	TO				
	1161	1170	8.2	100		
	1170	1180	10.2	100		
	1180	1190	10.1	100		
		1200		100		
		1210		100		
		1220		100		
		1230	10.2	100		
	1230	1240	10.2	100		
	1240	1250	10.0	100		
	1250	1260	10.0	100		
	1260	1270	10.2	100		
	1270	1280	10.1			
	1280	1281	1.3	100		
	1281	1291	10.2	100		
	1291	1296	4.6	100		
Core	1296	1301	5.7	100		
"	1301	1306	5.0	100		
	1306	1313	5.9	84		
	1313	1317	3.0			
	1317	1320	1.6	66		
	1320	1324	3.9			
	1324	1327	2.1			
	1327	1330	1.9	79		
	1330	1336	3.9			
	1336	1339	2.8	74		
	1339	1349	10.0	100		
	1349	1357	7.0	94		
	1357	1360	10.3	100		
	1360	1370	5.2	100		