

DIAMOND DRILL REPORT

Hole No. _____ Location _____ CO-ORDINATES: N 9500 E 13750
 Evaluation Collar 3783 Direction of hole _____ Dip of hole 70-72
 Date Started Dec. 19/57 Date finished Feb. 4/58 Large core from BX 72-120 to _____
 # 1697 Oriental Surface Small core from AX 120-851 to _____

DATE	CORE RECOVERY			GENERAL	EX 851 -	ECONOMIC
	DEPTH		% REC.			
	FROM	TO				
				0-70	Overburden	
				70-261	Grey-green fine grained stuff. A few buff filled fractures. Numerous buff colored siliceous grains. 70-75. Calcite grains - grey to light colored 75-110. Small calcite inclusions. Also siliceous carbonate. 122-142. Blocks of light to cherted crystalline stuff. Tiny calcite filled fractures. Numerous small calcite 150-188. Blackish grey due to some siliceous. 189-204. Sheeted structure. 70-204. 204-215. Definitely andesite - fine siliceous. A few small quartz grains + some buff colored grains chromous. Hard section 210-215. More indurated. Grey grains - buff siliceous. No folds. Numerous tiny calcite filled fractures. 204- 225-239. Generally harder, more numerous quartz grains - still but andesite but appears to be buff siliceous of andesite. 239-261. Section with large andesite fragments.	
				261-291	Grey-green - co. stuff. Prom. quartz, also small quartz grains. Siliceous type. Occasional greenish buff siliceous. Fractured - calcite veins. None or small filled.	
				291-341-349	Dark grey-green andesite stuff. Occasional calcite grains. Numerous calcite filled fractures. 225-241. Porphyry to chert siliceous. 248-260. Folds shown only. 362-372. Cutting andesite stuff.	

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	DEPTH		% REC.			
	FROM	TO				
Red Rock	70	75	2.5		335-345 + 355.5-356 section of co. tuff from gully.	
	75	79	1.4	52	381-391 several calcareous concretions, black gully.	
	79	82	3.3		contact at 394' is 65° to core. Figs. 1 & 2.	
	82	86	4.3	100	381-394 entire intrusive is gray calc.	
	86	96	10.0	100		
	96	106	10.0	100	394-524-700-767 co. tuff. From gully + small gully: Very	
	106	116	9.9	99	fine blks. Hard gray-green. Figs. 1 & 2.	
	116	120	2.8		contact with co. tuff sandy.	
	120	121	3.3	61	1 section of pale green chilled larder.	
	126	131	3.0		chl. amyg. & chl. phos. - 1" at 397.	
	131	134	1.1		a few inches at 412 & 416. Occas. m. la. frag in	
	134	137	0.5	42	co. tuff.	
	137	141	1.6		429-433 - pale green chilled amyg. and intrusive also	
	141	146	2.6	47	chilled, as well as calcite amyg.	
	146	156	7.4	94	441-442.5 - gray-green highly amyg.	
	156	166	5.7	57	fine blks. calcite amyg.	
	166	176	6.8	68	446-448 - Chilled gray-black structures.	
	176	184	5.0	62	448-449 - calcite filled fractures. Heavy fracturing 462-482.	
	184	189	2.0	40	468-482	
	189	192	1.8		508-510 - gray and. silt contact 8 abo. 65° to core.	
	192	197	2.6	55	chl. blks. a few calcite amyg.	
	197	201	2.1		514-522 - gray-black chilled dikes - structures.	
	201	206	3.6	63		
	206	216	5.0	50	216-226 in co. tuff very fine from bluff to gray-green.	
	216	226	5.1	51	226-236 - fine amyg. more numerous where abundant.	
	226	230	1.6			
	230	236	6.9	85	606-637 - Gray-green fine and. silt. chl. flecks &	
	236	241	4.8		a few chl. amyg. a few patches with a few small fields phos.	
	241	246	2.1	69	Numerous calcite filled fractures. Calcite amyg. (31-37).	

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	DEPTH			% REC.		
	FROM	TO				
	246	252	41	68	crs. fracturing 637-675 - calcite fillings	
	252	257	28		solids more noticeable 637-675 Buff. sand 2-3% at least	
	257	261	12	44	frag. fairly common 690-700	
	261	264	52			
	264	272	10	56	767-787 Arkose matrix Red. of flecks	
	272	276	10		arkose grts fine & med. gr. with interbedding	
	276	283	56	67	base of dark greenish gray tuff. Bedded 75° E. conc	
	283	287	10	78	minor fracturing	
	287	300	32	46		
	300	306	44	78	(787-790 amyg. ards. and. Greenish black crs. fracturing - calcite veins. Pink amyg. frag. matrix. Epidote matrix)	
	306	311	28	89		
	311	316	19			
	316	324	24	100		
	324	329	12		(790-811 Greenish black amyg. and. flow. low. calcite amyg. bedded fracture calcite epidote matrix)	
	329	333	12	44		
	333	337	17			
	337	339	34			
	339	341	29	62	(811-840-926 Arkose grts and. of. Sand. reddish brown. Fractured - calcite & epidote veins 817-840-926 conc. 6" amyg. and. and. 841.5-842.)	
	341	349	16			
	349	353	36	85		
	353	359	50			
	359	362	20	78		
	362	364	15			
	364	372	16	31	(926-955-956 Volcanic sand. Calcite tuff matrix fractured - calcite veins. frag. from dark green to buff. Very little quartz in matrix. Also some bedded gray silty silt in matrix 955-956 1/2 section of silt frag. reddish gray grt)	
	372	376	18	50		
	376	381	27			
	381	386	50			
	386	393	50	83		
	393	398	26	52		

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ECONOMIC

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542	552	93	02
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	DEPTH		% REC.			
	FROM	TO				
	552	562	7.4	96	1031- 1047	Arkose grit, fine to coarse
	562	572	7.8	78		reddish black grey brown. Only fossils &
	572	576	2.3			reddish brown gran. - few calcite
	576	579	1.2	50		filled fracture.
	579	589	2.1	71		
	589	599	6.2	62	1047- 1062	Pale grey-green siltstone. Fair
	599	606	2.2			bedding about 170° to core. Missing.
	606	611	4.0	53		Microcalcite filled fracture. Some fresh
	611	621	10.1	100		defect. thin. Generally very hard, a
	621	631	10.1	100		few softer streaks. Barren
	631	638	3.5			
	638	647	0.9	44	1062- 1116	Arkose congl. - a few bands
	647	646	2.0			of fm. 1037. Matrix micaceous, calc. co. grit.
	646	651	1.2	32		Expt 1062-1064, 1070-1072. Not typical arkose
	651	657	2.0	33		harder matrix is gut. plus coarse calcite, but
	657	662	0.5			shining little. Outcrop not as prominent as usual arkose
	662	667	2.3	28		a few calcite filled fractures.
	667	669	1.5			Subbands 1104-05, 1108-09,
	669	675	2.6	52		
	675	686	10.1	94	1116- 1145	Arkose grit. Coarse to fine. Fair
	686	696	10.2	100		section more of a bluish grey. Coarser material
	696	700	2.1	52		reddish black grey brown. Fair bedding 70-80° to
	700	710	10.0	100		hard. Fractured, calcite veining.
	710	721	8.6	78		
	721	726	0.5	10	1145- 1161	Calc. Tuff. Fair, co. - few, type
	726	731	0.7			Spindle + calcite interbed. Fair, massive. Very
	731	735	1.5	24		minor alteration to siliceous.
	735	742	6.1			
	742	747	3.6	81		

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	DEPTH		% REC.				
	FROM	TO					
	747	752	2.2		1161- 1172	Light brown brachite silt	1- 7/16 small
	752	756	1.6	42		alters feld. chert. Also a few unaltered	
	756	761	1.1			old pieces of quartz. Fractured - calcite	
	761	766	3.9	50		grit, siliceous, thin grained, chert.	
	766	776	7.2	72			
	776	783	5.4	77	1172- 1182	Conglomerate All type frags including	
	783	788	2.8			mya. and. Reddish silt type most common	
	788	792	1.2	44		Mainly coarse arkosic type grit matrix. Several	
	792	798	2.2			patches of dark grey, con. chert, etc. stuff in matrix.	
	798	803	2.9	46		Consid. fractured & calcite veins	
	803	806	1.8				
	806	813	5.1	69	1192- 1289	Dacite stuff. Fine type fairly co	
	813	817	0.8			Dark & patches of quartz. Tail-grained	
	817	821	2.2			appearing from 1165-7. Consid. gritty later. 1286	
	821	824	1.1	37		Dacite frag.	
	824	829	0.6		1289- 1294	Pale grey & pale green - green inter	
	829	830	0.8			calc. breccia frags & matrix blend & chert	
	830	834	0.8	22		A few frags have a few altered felds. Phos. - most	
	834	837	2.0			just felds - all hard, silt. fgl. matrix - general	
	837	839	2.9			hard fgl, silt, some silt & gritty. Also some with	
	839	844	4.2	71		tiny lava grains. Some minor frag. mixture	
	844	846	1.1				
	846	851	1.0		1294- 1303	Gritty inter. - chert. Some one tiny lava	
	851	855	1.1	29		grains, occurs frag. sections close to chert. Unaltered	
	855	860	1.2			to gritty inter. - tail. actually in 0-2. Fair massive	
	860	864	1.4	29		matrix fracture. No silt. fgl. Dsp - consid. calcite	
	864	870	3.2			chert matrix	
	870	873	3.2	71			
	873	878	3.1				
	878	883	0.9	30			

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	DEPTH			% REC.		
	FROM	TO				
	883	887	1.1		1303-1317	Volc. breccia ss. 1289-1779. Very minor amount of matrix. A few tiny black Pb-7 2" part.
	887	890	1.5	41		Calcareous replacement with alab. & fresh Pb-7 at 1309'.
	890	896	4.6	77		Considerable fracture - calcite & siliceous. Last 6" are
	896	901	4.8			calc. congl. frag. matrix
	901	904	0.7	19		
	904	910	4.5			
	910	914	1.1	56	1317-1323	Later. small F.W. type. Chloritized
	914	918	1.6			slightly siliceous. Pb-7 with some
	918	922	0.7	29		finely crystalline. A few sil. frags - hard
	922	926	1.0			gray - purplish gray. Considerable fracture - calcite being
	926	933	3.2	30		
	933	938	3.9			
	938	941	1.4	66	1323-1355	Reddish gray-brown Arkose gnt s.
	941	946	3.9			fine to co. Fractured - calcite replacing
	946	951	2.9	68		siliceous matrix 1333-1355. Considerable fracture to 1333
	951	956	1.7			
	956	961	4.1	83		
	961	970	9.0	100	1355' End	
	970	980	10.5	100		
	980	991	10.4	96		
	991	995	2.8			
	995	1000	5.2	89		
	1000	1011	10.0	100		
	1011	1020	9.3	100		
	1020	1030	10.2	100		
	1030	1040	10.4	100		
	1040	1051	10.5	100		
	1051	1060	9.3	100		
	1060	1070	10.4	100		

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	DEPTH		% REC.			
	FROM	TO				
	1070	1073	2.5			
	1073	1078	5.1	95		
	1078	1082	7.9	83		
	1082	1094	10.0	100		
	1094	1102	10.4	100		
	1102	1124	1.5			
	1124	1136	6.6			
	1136	1130	11.2	90		
	1130	1130	10.5	100		
	1130	1136	3.5	58		
	1136	1141	4.9			
	1141	1145	2.4			
	1145	1148	3.4	89		
	1148	1158	6.8			
	1158	1151	1.5	94		
	1151	1167	10.2	100		
	1167	1172	3.4			
	1172	1180	6.5	75		
	1180	1185	1.5	30		
	1185	1188	0.7			
	1188	1193	1.9	32		
	1193	1201	7.0	88		
	1201	1208	2.1			
	1208	1211	0.9	30		
	1211	1221	8.0	80		
	1221	1226	3.4			
	1226	1230	2.0	60		
	1230	1240	8.4	88		
7.0	1240	1250	10.4	100		

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Small core from _____ to _____

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1250	1255	2.1	
1255	1260	2.1	42
1260	1270	9.0	90
1270	1276	2.7	50
1276	1286	10.3	100
1286	1296	9.0	90
1296	1302	5.3	88
1302	1306	0.7	
1306	1312	3.1	40
1312	1316	1.0	
1316	1320	1.3	29
1320	1325	1.1	
1325	1328	0.4	19
1328	1333	1.1	
1333	1338	1.3	29
1338	1345	7.1	100
1345	1355	10.1	100