

DIAMOND DRILL REPORT

Hole No. _____ Location _____ CO-ORDINATES: N 9500 E 13000

Evaluation Collar 3798 Direction of hole _____ Dip of hole vertical

Date Started June 10/57 Date finished Aug. 12/57 Large core from 4" 0-51

#1658

Oriental Surface

Small core from AX 100-1685

EX 685m

DATE	CORE RECOVERY		% REC.	GENERAL	ECONOMIC
	DEPTH FROM	TO			
				0-87 Overburden	
99-106 pale grey, trachyte sill. pale gull, felsic sh. con. contact 30' above 99' color trending 50° E. con.				87-186 Andesite stuff. Top, bleached pale green, grey, siliceous to 120'. Siliceous - also 125-155, gritty appearance due to varying quantities of quartz. In general, fairly sharp & also rounded, rather small grains. Fractured, calcite veining. Minor grained hard, top, 155-225 fair amt. siliceous. 225-233 another zone. Section at 125-155 223-265 massive / structureless, tuff, med. hard. Tuff calcite veining 265-374 gritty appearance due to fine siliceous grains - small top 374-383 compact, siliceous & calcite veining, showing alteration 374-383 383-393-486 top, top, siliceous 1-55-466 top section of tuff. top, minor alteration - still calcite veining. A 486-555.5 Hard, fair, pale grey, siliceous dacite sill bleached sil. material - limited 75' thick also 1-290gry phenocrysts a few felsic only. Shows contact at 486' at 70° E. con. 10' from surface of andes. tuff at 506.5 + also andes. tuff 509-510 with gl. contacts sharp & about 60° to N. con. 500-500 occurs. scattered pyrite In general massive - a few calcite filled fractures Contact at 555' - 75' E. con. Some contamination with Andes. tuff 550-555.	

DIAMOND DRILL REPORT

Hole No. 11157 Location CO-ORDINATES: N E Evaluation Collar Direction of hole Dip of hole Date Started Date finished Large core from to Small core from to

DATE	CORE RECOVERY				GENERAL	ECONOMIC
	DEPTH		% REC.			
	FROM	TO				
Bed Rock	87	100	2.5	58	555.5-576 Andes. buff. Grey-green. Fg. somewhat gritty. Sph. attitud. Calcite veins fracture. Some calcite grains slumps 565-570.	
	100	106	3.7			
	106	109	1.2	54		
	109	114	2			
	114	119	4.1	51	576-594 Arkose. buff. Grey buff. reddish bedded. Fine to med. grained. Several bands of little bedded andes. buff. - about 15" to core. Heavy silic. intrud. marking a pale grey-white. Also fractured - calcite veining. Some dacite buff in last 2'	
	119	126	6.8	99		
	126	136	10.1	100		
	136	142	5.6	83		
	142	144	2.2			
	144	149	5.7			
	149	153	2.5	67	594-620-628 Andes. buff. Green-black. Fg. Not allied to above. Bands of silicified. Fractured - calcite & epidote veining.	
	153	163	2.4			
	163	166	2.3	47		
	166	172	4.2	58	628-635 Arkose. andes. buff. Coarse red hematite staining. Gritty. Calcite intrud. Fractured.	
	172	178	4.5	80		
	178	186	7.3	100		
	186	190	3.2			
	190	196	6.0	92	635-643 Andesite buff. Fg. grey-green - soft. Arkose. calcite & silic. intrud. section. Fractured. Fine dark hematite 637-639.	
	196	203	5.2			
	203	206	1.7	69		
	206	210	3.2			
	210	216	6.0	98	643-685-835 Arkose. buff. Fractured - calcite & epidote veining. Matrix vs. smaller material of same type as larger fuz. + gnt. fields. Grit. Calcite.	
	216	225	8.3	92		
	225	231	5.7	95		
	231	238	7.0	100		
	238	246	8.0	100	835-889-967 Arkose. buff. Fg. grey-buff silic. Porphy. to 851 - tiny fields - some calcite 1-2%.	
	246	256	10.1	100		
	256	266	9.0	90	Small fuz. structures 851-869. Porphy. again 869- Fractured & calcite veining.	

DIAMOND DRILL REPORT

Hole No. _____ Location _____ CO-ORDINATES: N _____ E _____

Evaluation Collar _____ Direction of hole _____ Dip of hole _____

Date Started _____ Date finished _____ Large core from _____ to _____

Small core from _____ to _____

H. 11-58

DATE	CORE RECOVERY				GENERAL	ECONOMIC
	DEPTH		% REC.			
	FROM	TO				
	266	276	9.8	98	967-1002-1003 Dacite tuff. H.W. variety. Silicified	
	276	279	3.3		masked. 0-5% of volc grit & chert. mixture. Flecks	
	279	284	3.7	88	pyrite. Fractured - talc filling. Pores. small	
	284	292	4.8	60	granitic frag. large granite pebbles 1014-1015.5	
	292	294	1.0		fractured w/it numerous frags	
	294	300	3.4	55	Sharp contact at 1063. 55° E chert	
	300	308	7.5	95		
	308	318	10.1	100	1063-1065 Pale grey hard silic. chert. Good dissem.	
	318	327	8.2	93	pyrite. Coarsely composed of fine to coarse silic.	
	327	337	10.2	100	Chert 2 1/2 in x grains.	
	337	344	5.3	76		
	344	354	9.8	100	1066-1079 Pale conglomerate. Volc grit & tuff matrix.	
	354	364	10.0	100	Grains are all silic. lumps. 7/16 in. & pyrite	
	364	374	10.0	100	Some dark in matrix up to 1070. 3/8 in. & 1/4 in.	
	374	377	1.1		tuff & matrix 1070-1079. 3 in. & 1 1/2 in. pebbles	
	377	381	1.0	34	pyrite fractures.	
	381	389	1.1	14		
	389	400	10.1	92	1079-1105 Grey & pale grey hard silic.	
	400	410	7.0	70	chert. Fine to coarse. Some bedded 60-90°	
	410	416	5.9	99	pyrite. Composed of silic. large material. High	
	416	424	2.1	26	pyrite dissem. pyrite. Matrix. 1/2 in. & 1/4 in.	
	424	435	10.1	92	fine silic. fines fractures.	
	435	442	5.6	80		
	442	448	5.2	87	1100-1280-1334 Pale grey-green & pale grey, 1/4 in. silic.	
	448	456	7.1	89	chert. Silic. chert. except for pebbles being	
	456	466	9.5	95	oldest field. chert. Fractured. Fine silic. weather.	
	466	476	9.8	98	Also because of fine weather pyrite. Sections with	
	476	482	4.2		1/4 in. & 1/2 in. silic. 1/2 in. & 1/4 in. silic. Occurs very fine Pb-Zn	
	482	485	2.2	77	and 1/2 in. 1265-1265 Pb-Zn veinlets more numerous	
	485	495	10.2	100	1295- a few veinlets every foot. Occurs. banded	

Hole No. _____ Location _____ CO-ORDINATES: N _____ E _____

Evaluation Collar _____ Direction of hole _____ Dip of hole _____

Date Started _____ Date finished _____ Large core from _____ to _____

Small core from _____ to _____

DATE	CORE RECOVERY				GENERAL	ECONOMIC
	DEPTH		% REC.			
	FROM	TO				
	495	505	10.1	100	filled fracture - 1293 → Pyrite veinlets also more numerous 1295 →	
	505	515	10.1	100		
	515	525	10.1	100		
	525	536	10.0	100	1334 - 1338	Volc. congl. - mainly grey grt. hard material.
	536	544	8.0	100	Minor amt. inter. tuff. Hard pale colored inter. lava frags. mainly. A few granitic frags. A few flecks of pyrite. Fractured, calcite veining.	
	544	555	10.0	94		
	555	565	10.1	100		
	565	575	10.1	100		
	575	585	10.1	100	1338 - 1342	Grey hard, med. to co. silic. grt. The bedding. A few flecks pyrite. Calcite filled fractures.
	585	596	9.3	86		
	596	606	10.1	100		
	606	616	10.1	100		
	616	626	10.0	100	1342 - 1347	As 1334-1338. Grey hard co. grt. material. Only. Calcite filled fractures.
	626	629	2.4			
	629	636	6.0	84		
	636	642	5.5		1347 - 1361	Fine gr. co. hard silic. grt. as 1338-1341. Calcite filled fractures.
	642	647	2.0	68		
	647	654	2.2			
	654	657	2.6	48	1361 - 1377	Trachytic inter. tuff. Soft, chloritized. Bands of trachytic material - sulphid.
	657	660	2.7			
	660	666	4.9	93		
	666	675	9.8	100		
	675	685	7.2	92		
	685	690	3.9		1377 - 1390	Inter. aggl. Fg. soft altered. Some yellowish alteration in part grt. inter. tuff. Somewhat pale grey hard silic. inter. la. frags.
	690	694	1.0	54		
	694	703	7.7	86		
	703	708	1.4	2.8		
	708	715	5.3			
	715	719	3.4	79		

DIAMOND DRILL REPORT

Hole No. _____ Location _____ CO-ORDINATES: N _____ E _____

Evaluation Collar _____ Direction of hole _____ Dip of hole _____

Date Started _____ Date finished _____ Large core from _____ to _____

Small core from _____ to _____

14 11 58

DATE	CORE RECOVERY				GENERAL	ECONOMIC
	DEPTH		% REC.			
	FROM	TO				
	719	730	10.2	93	1390-1417-1438 Dark grey - black fine inter. trill. Fairly soft. Some ch. flecked l. Occas. many of inter. lower frag (bedded). A few grains collected 1407-1412. Below flat, not let pyrite. A few thin calcite filled fractures. Some interbedding of arkose grit mixture from 1429 - Low ch. bearing & some crushing 1429-1429	
	730	736	5.1	85		
	736	746	9.6			
	746	748	2.4	100		
	748	753	4.3			
	753	758	1.8	61		
	758	766	6.3	79		
	766	776	10.0	100		
	776	780	3.5	95		
	780	790	0.3	100		
	790	800	2.3	83	1438-1461 Fine to med to some co. arkose grit. Buff & pink colored. Reddish flecked. No bedding recalled, carb. & silic. veining.	
	800	803	1.7			
	803	805	1.7	68		
	805	812	7.5	75		
	812	820	3.6	72		
	820	830	4.7	47		
	830	835	1.5			
	835	842	2.7	31		
	842	850	7.8	97		
	850	861	10.1	92		
	861	871	5.6	56	1461 End	
	871	878	11.2	60		
	878	886	5.0	62		
	886	896	6.5	65		
	896	900	2.7			
	900	908	3.6	52		
	908	912	3.0	75		
	912	920	4.0	50		
	920	928	1.2	15		

Hole # 1658 Oriental June 10/57 → Aug 2/57
N: 9500 E: 13,000 Dip = -90° Size - AX
Elevation: 798

Entered
Aug 5/08
RS.

0-87° Overburden

87-486° Andesite Tuff. f gr. Blacked pale green,
grey. Silicified. Gritty with grtz. Fract.
Calcite veins.

↳ 155-225: Silicification strong

↳ 225-233: coarse grit

↳ 233-265: massive tuff. Calcite veins.

↳ 266-374: gritty, silicious.

↳ 374-383: strong Silic. & calcite veining, shear.

↳ 383-393-486: f gr. Tuff, calcite veins.

486-555.5° Fine gr. Paleogreen, Silicious ~~200~~ dacite sill.
Quartz phobs. Sharp contact -40°.

↳ 509-510 - contact sharp - 60°, pyritic veinlet.
Massive, calcite ff.

↳ 555-555.5 - contact 750

↳ 550-555 - Andes. tuff

555.5-576° Andes. tuff. Grey green - fine gr. Gritty
Calcite fractures

576-594° Arkosic grit. Grey tuff, red. Fine-med gr.

Andesite tuff interbeds. -75° Silic. Strong
Fractured, calcite veins.

↳ 592-594: dacite tuff.

594-620-628: Andes. tuff. Green black fine gr.
Silic. Fract. Cal & Epi veins.

628-635: Amyg. adersite aegyl. Red hematite
Calcite, fract. f. agr matrix

635-643: Andes tuff. F. agr grey green. Cal & Epi
& silic. Fract. Arkose grit.

↳ 637-639:

643-685-835: Arkose congl. Fract cal & epi veins.
Fragging quartz & bedded grit.

835-887-967: Trachyte sill - F gr. grey buff.
Silic. beds.

↳ ~~887~~ 869: 967: Fract, cal veins.

967-1022-1063: Dacite tuff. Hanging wall. Silic.
Vdc grit & congl. Pyrite. Fract cal v. no.
Granite frag

↳ 1014 - 1015.5: Granite boulder - Fragg

↳ 1062 - 1063: Sharp contact, 55°

1063-1066: Pale grey silic. grit Fine diss pyrite.
w. agr - Lava frag.

1066-1079: Volc congl & gritty tuff matrix. Pyrite frags - Porite
frag

↳ 1076-1079: inter tuff f.g. calcite cc.

1079-1100: Grey & pale grey silic. grit. coarse, bedded, noy 70°
Dissem pyrite. Moss. up. Calcite cc

1100-1320-1334: Pale grey green f.g. silic dacite. Sil.
felds pheno. Fractured. Calcite veinlet
pyrite vlnet. PbZn veinlet

↳ 1265-1295: PbZn veinlets. Barite

↳ 1295-1320: fracture, Pyrite veinlets.

1334-1338: volc. congl grey grit. Inter tuff.
Lava frag, flecks pyrite, fract, calcite

1338-1342: Grey, mod grit Flus Pyrite chert
filled fractures, Sil.

1342-1347: Grey coarse grit, calcite ff.

1347-1361: Fine, Sil grey grit, calcite ff.

1361-7377: Felds inter tuff, chlor, f.g. Bands of
trachyte sil. Purple.

↳ 1361-1361.5: Grey

↳ 1372-1372.5: Blobs trachyte Fract. Calcite vein

1377-1390: Inter ogg. fine gr yellow gritty inter tuff
Pale grey, silic, frag.

1390-1417-1438: Dark grey, black f.g. inter tuff. chlor
flecks - Amyg, frag

↳ 1407-1412: Calcite^{ff}, pyrite veinlet

↳ 1429-1429: Shale & crushing

↳ 1429-1438: Arkose grit.

1438-1461: Fine arkose grit. Buff, Red flecks. Fracture
carb & silic vein

1461' - ED41 -