

BUCHANANS MINING CO., LTD. DIAMOND DRILL HOLE RECORD

Location Surface northeast of Oriental
 Direction Down Dip Vertical
 Started October 8, 1951 Finished January 11, 1952

COORDINATES

N. 7250 E. 13,000
 Elevation 3764.86

Hole No. 981
 Depth 1052'

DESCRIPTION				CORE								SLUDGE							
General	Section		Core Rec. %	Economic	Sample No.	Oz. Au.	Oz. Ag.	% Cu.	% Pb.	% Zn.	% Fe.	Sludge Sect.	Sample No.	Oz. Au.	Oz. Ag.	% Cu.	% Pb.	% Zn.	% Fe.
	From	To																	
<u>0-121</u> Overburden																			
<u>121-144</u> Grey-green amygdular andesite agglomerate and tuff; amygdular fragments in fine grained grey-green tuff matrix. Some pale green mottling due to siliceous introduction.	121	128	44	<u>121-144</u> Barren															
	128	132	90																
	132	140	91																
	140	142	55																
	142	146	97																
<u>144-307</u> Grey-green andesite tuff, fine to coarse grained, medium hard. Bedded from 144-146 and 164-165 at 90° to core. Tuff is soft and fine grained 175-247, 256-293. Pale green and brownish siliceous lumps from 158-175, 247-256. Minor shearing 227-243, 281-307. Considerable fracturing 299-307. Chilled diabase dyke 226-227.	146	150	57	<u>144-307</u> Flecks pyrite															
	150	154	75																
	154	159	98																
	159	166	85																
	166	177	90																
	177	188	100																
	188	197	86																
	197	208	41																
	208	214	45																
	214	221	37																
	221	227	46																
	227	233	43																
	233	240	57																
	240	251	69																
	251	261	90																
	261	271	57																
	271	281	47																
	281	289	65																
	289	299	52																
	299	307	27																
<u>307-325</u> Reddish-brown, hard coarse arkose grit; prominent quartz and feldspar in fine grained ash; some gritty feldspathic tuff. Considerable fracturing.	307	314	18	<u>307-325</u> Barren															
	314	321	27																
	321	326	26																

SIZE OF CORE
 EX From 0 To 1052
 From To
 From To
 From To

REMARKS Tro-pari instrument dip and directional tests gave the following results:
250' - dip 88° - bearing S71° W; 500' - dip 85° bearing S53° W; 750' - dip 85° - bearing S55° W. All bearings-true

Examined by _____

Engineer

Approved _____

Manager

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	Section From To				Sample No.	Oz. Au.	Oz. Ag.	% Cu.	% Pb.	% Zn.	% Fe.	Sludge Sect.	% Sulfur	Sample No.	Oz. Au.	Oz. Ag.	% Cu.	% Pb.	% Zn.	% Fe.	
<u>325-334</u> Grey-green amygdular andesite agglomerate. Soft green tuff 333-334. Siliceous introduction in lumps. Red hematite staining 325-333. Considerable fracturing.	326	333	23	<u>325-334</u>	Barren																
<u>334-474</u> Reddish-brown, hard arkose grit and agglomerate. Fine to coarse grit. Agglomerate zones 360-383, 429-437. Considerable fracturing 334-381, 394-397, 461-468; tiny pug seam 465-466. Large boulders amygdular andesite 391-392, 394-397.	333	343	65	<u>334-474</u>	Barren																
	343	349	23																		
	349	356	23																		
	356	360	25																		
	360	368	26																		
	368	377	57																		
	377	384	60																		
	384	394	80																		
	394	400	46																		
	400	410	31																		
	410	420	96																		
	420	430	91																		
	430	439	90																		
	439	448	83																		
	448	458	100																		
	458	468	91																		
	468	474	85																		
<u>474-494</u> Hard, siliceous, porphyritic reddish-grey and brown acidintermediate flow; fine grained; 20-30% reddish feldspar phenocrysts and 5% quartz eyes.	474	477	56	<u>474-494</u>	Barren																
	477	484	97																		
	484	494	100																		
<u>494-531</u> Green, altered, bleached olive green, pale grey, pale green and buff colored dacitic feldspathic tuff; 10-20% feldspar grains; soft; sheared 494-531 and schist 505-508, 516-518. Some small zones of silicification	494	505	93	<u>494-531</u>	Tiny veinlets pyrite																
	505	508	23																		
	508	516	80																		
	516	526	98																		
	526	533	53																		
														490-500	0.6	N	N	N	N	N	12.0
														500-510	0.3	N	N	N	N	N	6.3
														510-520	0.4	N	N	N	N	N	9.0
														520-530	0.4	N	N	N	N	N	9.0

EX	SIZE OF CORE		REMARKS
	From	To	
	0	1052	
	From	To	
	From	To	
	From	To	

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Engineer

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Manager

Elevation 3764.86

Manager

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General	DESCRIPTION		Core Rec. %	Economic	CORE								SLUDGE							
	Section From	To			% Sulfur Sample	Oz. Au.	Oz. Ag.	% Cu.	% Pb.	% Zn.	% Fe.	Sludge Sect.	% Sulfur Sample	Oz. Au.	Oz. Ag.	% Cu.	% Pb.	% Zn.	% Fe.	
	682	687	42	<u>Sample 680-685</u> Veinlets Pb-Zn up to 1/4", also blebs and flecks	5.9	.02	0.8	0.1	3.0	6.7	3.5									
	687	691	60	<u>Sample 685-691</u> Tiny veinlets, blebs and flecks Pb-Zn	1.6	.01	0.6	N	0.4	1.6	3.0									
<u>691-766</u> Pale grey & grey-green, gritty feldspathic dacite and minor amount agglomerate; only a few quartz eyes. About 75% hard and silicified, rest is soft, sheared. Massive.	691	700	100	<u>691-766</u> A few tiny pyrite veinlets and flecks. Traces Pb-Zn.								700-710	0.5	N	N	N	N	N	7.9	
	700	710	100																	
	710	718	98																	
	718	725	49										715-725	0.1	N	N	N	N	N	10.1
	725	734	85										725-735	0.2	N	N	N	N	N	11.3
	734	736	100																	
	736	746	76																	
	746	756	94																	
	756	766	52									755-765	0.5	N	N	N	N	N	16.0	
<u>766-986</u> Dark grey and grey green intermediate agglomerate and coarse tuff. Mixture of fragments of fine grained bleached intermediate lava and a few dark green fragments; a few amygdular fragments. Soft grey coarse tuff 766-781 with chips and shreds of intermediate lava. All agglomerate from 851-986; fragments are prominently amygdular and porphyritic from 851-892 with quartz and calcite filled amygdules; soft altered feldspar phenocrysts. Some patches silicification throughout. Considerable fracturing.	766	776	26	<u>766-986</u> Finely, lightly, disseminated pyrite.								765-775	0.5	N	N	N	N	N	16.8	
	776	782	50										775-780	0.3	N	N	N	N	N	11.8
	782	790	44										780-790	0.2	N	N	N	N	N	9.9
	790	796	20										790-800	0.3	N	N	N	N	N	5.8
	796	806	63																	
	806	816	52										805-815	1.1	N	N	N	N	N	22.7
	816	821	20																	
	821	828	57																	
	828	833	56																	
	833	843	12																	
	843	851	10																	
	851	858	50										855-860	0.5	N	N	N	N	N	6.0
	858	867	37										860-865	0.3	N	N	N	N	N	6.1
	867	874	48										865-870	0.4	N	N	N	N	N	6.7
	874	884	79										870-880	0.2	N	N	N	N	N	7.3
	884	892	40										890-900	0.7	N	N	N	N	N	7.5
	892	902	13																	
	902	912	10																	
	912	921	14																	
	921	931	6																	
	931	933	65																	
	933	943	14																	

SIZE OF CORE

REMARKS

From _____ To _____
 From _____ To _____
 From _____ To _____
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Examined by _____

Engineer

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Manager

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General	Section		Core Rec. %		Sample No.	Oz. Au.	Oz. Ag.	% Cu.	% Pb.	% Zn.	% Fe.	Sludge Sect.	Sample No.	Oz. Au.	Oz. Ag.	% Cu.	% Pb.	% Zn.	% Fe.	
	943	950	11																	
	950	956	16																	
	956	963	7																	
	963	974	20																	
	974	981	17																	
	981	986	32																	
<u>986-994</u> Grey-green gritty feldspathic dacite; no quartz. Some patches silicification and bleaching. Considerable fracturing	986	994	20	<u>986-994</u>	Barren															
<u>994-1007</u> Grey-green, fine grained, hard, porphyritic intermediate flow. A few feldspar phenocrysts. Fractured and bleached. Reddish-brown siliceous replacement and red hematite staining.	994	1001	13	<u>994-1007</u>	Barren															
	1001	1007	17																	
<u>1007-1011</u> Grey-green gritty feldspathic dacite tuff; no quartz soft sheared.	1007	1013	33	<u>1007-1011</u>	Barren															
<u>1011-1034</u> Buff colored, intermediate agglomerate. Heavy fracturing, silicification and bleaching. Some red hematite staining. Indefinite rock type	1013	1019	30	<u>1011-1034</u>	Barren															
	1019	1028	14																	
	1028	1038	8																	
<u>1034-1052</u> Buff colored, hard, medium and even grained quartz-feldspar arkose grit; fractured.	1038	1048	6	<u>1034-1052</u>	Barren															
	1048	1052	25																	

1052' End of Hole

SIZE OF CORE			REMARKS
EX	From	To	
	0	1052	
	From	To	
	From	To	
	From	To	

Examined by _____ Engineer
Approved _____ Manager