

BUCHANS MINING CO., LTD.
DIAMOND DRILL HOLE RECORD

Sheet 1

Location Middle Branch River, East of Oriental

APPROX. COORDINATES

Hole No. 577Direction Down Dip VerticalN 7160E 14,830Depth 1417'Started February 9, 1945 Finished Apr 11 12, 1945Elevation 692'

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																	
0-41' Overburden.																			
41-741 Dark green, porphyritic, andesite lava flow. Prominent epidote and chlorite altered feldspar phenocrysts up to $\frac{1}{4}$ ". Tiny calcite-quartz-chlorite filled amygdaloids. Some calcite veinlets. Sheared and crushed 417-424; some calcite cemented breccia 422-423'.	41	53	40	41-741 Barren.															
	53	59	10																
	59	68	50																
	68	80	30																
	80	90	45																
	90	100	45																
	100	110	35																
	110	121	30																
	121	131	25																
	131	151	35																
	151	172	65																
	172	191	80																
	191	211	90																
	211	233	75																
	233	255	60																
	255	280	85																
	280	300	50																
	300	320	40																
	320	350	60																
	350	400	80																
	400	422	70																
	422	460	90																
	460	490	80																
	490	510	90																
	510	541	85																
	541	581	65																
	581	618	90																
	618	648	70																
	648	666	20																
	666	694	90																
	694	714	75																
	714	741	85																
741-785 Hard, bleached, pale gray to purplish gray, intermediate lava flow. Fine grained to glassy. Some chloritic flecks.	741	749	85	741-785 Barren.															
	749	756	90																
	756	763	80																
	763	773	85																
	773	780	90																

SIZE OF CORE

From To

1 $\frac{1}{4}$ " From 41 To 50

7" From 50 To 1417'

From To

REMARKS

Standpipe left in hole.

Examined by

H. J. Maclean

Engineer

Approved by

Manager

BUCHANS MINING CO., LTD.
DIAMOND DRILL HOLE RECORD

Sheet 2

Location Middle Branch River, East of OrientalDirection Down Dip VerticalStarted February 9, 1945 Finished April 12, 1945

APPROX. COORDINATES

N 7160 E 14,830Elevation 692'Hole No. 577Depth 1417'

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>785-793'</u> Massive, dark green, fine grained, andesite lava flow.	780	786	90	<u>785-844'</u> Barren.															
<u>793-796'</u> Hard and fairly glassy intermediate lava, as 741-785. Bleached to ivory color.	786	796	80																
<u>796-844'</u> Massive, dark green, andesite lava flow. Has prominent, altered feldspar phenocrysts.	796	806	45																
Out by black, chilled, diabase dykes at 800-811 and 836-839.	806	811	60																
	811	815	55																
	815	822	50																
	822	828	55																
	828	836	80																
	836	845	80																
<u>844-1044'</u> Dark gray-green, fine grained, andesitic, volcanic tuffs; some bleaching and development of chlorite. Sheared in part but not schistose. Bedding or shear banding at angle to core of 65° at 860', 35° at 869', 45° at 887', 45° at 915', 50° at 935', 60° at 976' and 65° at 1036'.	845	850	60	<u>844-1044'</u> Barren except for sheared and bleached zones from 979-982 and 1000-1001 which contain traces of pyrite and Pb-Zn, and a sheared zone from 1038-1044 with lightly disseminated pyrite.															
	850	858	40																
	858	865	60																
	865	870	50																
	870	879	70																
	879	887	80																
Out by a diabase dyke 872-874.	887	896	70																
	896	904	90																
	904	912	60																
	912	917	70																
	917	926	45																
	926	935	80																
	935	944	75																
	944	954	85																
	954	964	95																
	964	970	55																

27-																			
845-850	8912	Nil	Nil	Nil	Nil	Nil	Nil	9.5											
850-855	3	"	"	"	"	"	"	6.6											
855-860	4	"	"	"	"	"	"	7.7											
860-865	5	"	"	"	"	"	"	11.0											
865-870	6	"	"	"	"	"	"	9.8											
870-875	7	"	"	"	"	"	"	7.8											
875-880	8	"	"	"	"	"	"	11.2											
880-885	9	"	"	"	"	"	"	10.2											
885-890	8920	"	"	"	"	"	"	10.6											
890-895	1	"	"	"	"	"	"	8.5											
895-900	2	"	"	"	"	"	"	7.5											
900-905	3	"	"	"	"	"	"	8.6											
905-910	4	"	"	"	"	"	"	8.8											
910-915	5	"	"	"	"	"	"	9.1											
915-925	6	"	"	"	"	"	"	7.8											
925-930	7	"	"	"	"	"	"	16.6											
930-935	8	"	"	"	"	"	"	19.4											
935-940	9	"	"	"	"	"	"	14.3											
940-945	8930	"	"	"	"	"	"	11.8											
945-950	1	"	"	"	"	"	"	16.0											
950-955	2	"	"	"	"	"	"	16.5											
955-960	3	"	"	"	"	"	"	18.4											
960-965	4	"	"	"	"	"	"	13.2											
965-970	5	"	"	"	"	"	"	9.8											

SIZE OF CORE		REMARKS
From	To	
1 1/4"	From 41 To 50'	
7/8"	From 50 To 1417'	
From	To	

Examined by

H. Maclean

Engineer

Approved by

Manager

BUCHANS MINING CO., LTD.
DIAMOND DRILL HOLE RECORD

Sheet 3

Location Middle Branch River, East of OrientalDirection Down Dip VerticalStarted February 9, 1945 Finished April 12, 1945

APPROX. COORDINATES

N 7160 E 14,830Elevation 692'Hole No. 577Depth 1417'

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																		
	970	976	70										27-							
													970-975	8936	N11	N11	N11	N11	N11	12.5
	976	980	90										975-980	7	"	"	"	"	"	12.0
	980	990	75										980-985	8	"	"	"	"	0.2	24.3
	990	1001	85										985-995	9	"	"	"	"	N11	11.6
													995-1000	8940	"	"	"	"	"	17.5
	1001	1012	85										1000-1005	1	"	"	"	"	"	17.5
													1005-1010	2	"	"	"	"	"	17.2
	1012	1022	85																	
	1022	1030	85										1020-1025	3	"	"	"	"	0.2	10.5
													1025-1035	4	"	"	"	"	N11	18.0
	1030	1040	100																	
	1040	1046	80										1035-1040	5	"	"	"	"	"	21.3
													1040-1045	6	"	"	"	"	"	21.6
1044-1063 Dark gray-green andesite flow. Some phenocrysts of white feldspar in a fine grained matrix. Some shearing and brecciation from 1044-1050'.	1046	1054	85	1044-1063' Barren.									1045-1050	7	"	"	"	"	"	15.3
	1054	1058	85										1050-1055	8	"	"	"	"	"	11.8
	1058	1063	85										1055-1060	9	"	"	"	"	"	11.6
													1060-1065	9245	"	"	"	"	"	17.5
													1065-1070	6	"	"	"	"	"	17.7
1063-1066 Gray-green, sheared, andesitic volcanic tuff.	1063	1066	80	1063-1066' Barren except for 2" pyrite-quartz veinlet at 1063'.									1070-1075	7	"	"	"	"	"	24.8
1066-1119 Dark gray-green andesite flow. Some calcite filled amygdules 1087-1089'.	1066	1076	100	1066-1119 Barren except for 12" of quartz replacement with lightly disseminated pyrite, from 1089-1090'.									1075-1080	8	"	"	"	"	"	23.0
	1076	1087	95										1080-1085	9	"	"	"	"	"	13.5
	1087	1098	80										1085-1090	9250	"	"	"	"	"	14.6
	1098	1109	95										1090-1095	1	"	"	"	"	"	16.0
	1109	1118	90										1095-1100	2	"	"	"	"	"	15.0
	1118	1123	85	1119-1193' Barren.									1115-1120	3	"	"	"	"	"	26.3
1119-1120' Banded, gray-green chert. Bedding 80° to core.													1120-1125	4	"	"	"	"	"	25.1
1120-1164 Amygdular andesite agglomerate; some bleaching; considerable red hematite staining; some siliceous replacement.	1123	1133	50										1125-1130	5	"	"	"	"	"	17.5
	1133	1148	60										1130-1135	6	"	"	"	"	"	17.6
	1148	1158	55										1135-1140	7	"	"	"	"	"	18.0
	1158	1163	100										1140-1145	8	"	"	"	"	"	20.5
1164-1193 Fairly massive andesite lava flow; fine grained with a few amygdules. Color varies from greenish-gray to purplish-gray due to bleaching and hematite staining.	1163	1174	90										1145-1150	9	"	"	"	"	"	23.2
	1174	1185	95										1150-1155	9260	"	"	"	"	"	14.6
	1185	1190	75										1160-1165	1	"	"	"	"	"	13.2
	1190	1194	100										1165-1170	2	"	"	"	"	"	16.6
													1170-1175	3	"	"	"	"	"	21.5

SIZE OF CORE			
From		To	
1 1/4"	From 41	To	50'
7/8"	From 50	To	1417'
From		To	

Examined by

Hymachan

Engineer

Approved by

Manager

BUCHANS MINING CO., LTD.
DIAMOND DRILL HOLE RECORD

Sheet 4

Location Middle Branch River, East of OrientalDirection Down Dip VerticalStarted February 9, 1945 Finished April 12, 1945

APPROX. COORDINATES

N 7160 E 14,830Elevation 692'Hole No. 577Depth 1417'

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>1193-1326'</u> Massive, reddish tinted, "arkose" type of grit. This is correlated with the "upper" arkose horizon.	1194	1205	95	<u>1193-1326'</u> Barren.									1175-1180	27-							
	1205	1216	80											9264	N11	N11	N11	N11	N11	20.6	
	1216	1227	90											1180-1185	5	"	"	"	"	"	19.5
	1227	1235	75											1185-1190	6	"	"	"	"	"	19.8
	1235	1242	75																		
	1242	1252	50																		
	1252	1267	100																		
	1267	1278	95																		
	1278	1288	100																		
	1288	1299	95																		
	1299	1306	85																		
<u>1326-1327'</u> Pale green, considerably altered schist after acid-intermediate lava. The schist has small quartz eyes in a fine grained matrix.	1306	1315	100	<u>1326-1327'</u> Barren.																	
	1315	1328	90																		
<u>1327-1417'</u> Massive, reddish and yellowish tinted, "arkose" type of grit with a few thin siltstone bands. This is correlated with the "lower" arkose horizon.	1328	1331	90	<u>1327-1417'</u> Barren.																	
	1331	1341	65																		
	1341	1351	70																		
	1351	1362	90																		
	1362	1373	100																		
	1373	1383	100																		
	1383	1393	65																		
	1393	1401	70																		
	1401	1406	60																		
	1406	1412	55																		
	1412	1417	40																		
1417' End of Hole																					

1417' End of Hole

JGE

SIZE OF CORE		REMARKS
From	To	
1 1/4"	From 41 To 50	
7/8"	From 50 To 1417'	
From	To	

Examined by

H. J. Maclean

Engineer

Approved by

Manager