

BUCHANS MINING CO., LTD. DIAMOND DRILL HOLE RECORD

Location Surface northwest of Lucky StrikeDirection Down (see remarks) Dip -90° at 0'; -86° 500'; -84° 1000'; -75° at 1400'Started September 21, 1948 Finished December 7, 1948

COORDINATES

N 5750.10 E 2000.12Elevation 918.78Hole No. 819Depth 1545'

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																	
0-30 Overburden																			
30-87 Massive, dark green, medium grained, diabase-dolerite sill. Lower contact about 45' to core.	30	33	100	30-335 Barren.															
	33	41	100																
	41	51	100																
	51	64	100																
	64	73	90																
	73	87	100																
87-114 Grey-green, reddish-flecked, hard, silicified, coarse acid-intermediate agglomerate and tuff; prominent quartz and feldspar grains. Some red staining.	87	92	100																
	92	96	80																
	96	103	100																
114-160 Hard, brittle, reddish-brown, porphyritic, acid lava flow and flow breccia. No shearing. Small phenocrysts of feldspar and quartz.	103	114	100																
	114	118	80																
	118	122	100																
	122	127	60																
	127	136	40																
	136	141	20																
	141	151	45																
	151	160	65																
160-196 Grey-green and olive-green, sheared, coarse, acid-intermediate gritty tuff; considerable amount quartz and feldspar grains; a little chlorite development in matrix; some epidote staining. Fairly prominent quartz grains.	160	170	100																
	170	179	80																
	179	190	75																
	190	196	35																
196-231 Dark green, medium grained, diabase sill. Some amygdules near the contacts. Contact at 231' about at right angles to core.	196	206	90																
	206	216	70																
	216	226	45																
	226	231	75																
231-335 Reddish-grey and grey-green, coarse, gritty, acid-intermediate tuff with prominent quartz and feldspar grains and small reddish lava chips. A minor amount of chlorite developed in the matrix.	231	241	100																
	241	250	55																
	250	260	45																
	260	270	80																
	270	280	60																
	280	290	50																
	290	298	60																
	298	308	40																
	308	319	37																
	319	329	45																

SIZE OF CORE

REMARKS Two Maas drill hole tests at 1400' gave directional strike of hole as E. 6° S.

	From	To
AX	14" From 30	To 329
EX	7" From 329	To 1545
	From	To

Examined by

BY
GEO. G. THOMAS

Engineer

Approved by

Manager

BUCHANS MINING CO., LTD.
DIAMOND DRILL HOLE RECORD

Location _____
Direction _____ Dip _____
Started _____ Finished _____

COORDINATES
N _____ E _____
Elevation _____

Hole No. 819
Depth 1545'

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																	
335-364 Olive green, sheared, chloritic, acid-intermediate gritty tuff with narrow schist bands. Has 25% small grains of feldspar and quartz; no prominent quartz.	329	335	95	335-642 Barren.															
	335	340	60																
	340	357	100																
	357	367	73																
364-421 Grey-green and purplish-grey, hard, siliceous, acid-intermediate lava flow with 25% small phenocrysts of feldspar and quartz. No shearing.	367	377	100																
	377	388	90																
	388	395	90																
	395	404	80																
421-541 Olive-green, acid-intermediate gritty tuff and agglomerate; alternating zones of agglomerate and tuff; some sheared bands with development of chlorite and sericite; some siliceous replacement.	404	414	55																
	414	419	22																
	419	431	90																
	431	442	95																
	442	451	100																
	451	462	50																
	462	467	28																
	467	477	77																
	477	497	85																
	497	517	72																
	517	529	90																
	529	534	70																
541-560 Dark grey, massive, porphyritic intermediate andesite lava flow. Has reddish stained feldspar phenocrysts in a fine grained matrix.	534	544	21																
	544	548	15																
	548	550	95																
	550	555	35																
560-584 Olive-green, silicified, acid-intermediate agglomerate; fragments have small white feldspar phenocrysts. No mixture of rock types.	555	560	58																
	560	564	20																
	564	570	75																
	570	581	100																
584-597 Olive-green and darker grey-green, somewhat silicified, mixed agglomerate with dacite and andesite lava fragments.	581	586	60																
	586	588	50																
	588	595	70																
597-642 Dark grey-green intermediate-andesite agglomerate; some amygdular	595	605	90																
	605	611	65																
	611	620	65																

SIZE OF CORE		REMARKS
From	To	
1" From	To	
2" From	To	
From	To	

Examined by _____
Approved by _____
BY
GEO. G. THOMAS
Engineer
Manager

BUCHANS MINING CO., LTD.
DIAMOND DRILL HOLE RECORDLocation _____
Direction _____ Dip _____
Started _____ Finished _____

COORDINATES

N _____ E _____
Elevation _____Hole No. 819
Depth 1515'

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																	
fragments. Some silicification.	620	630	65																
	630	637	15																
642-655 Grey-green, hard, fine grained, silicified, acid-intermediate agglomerate.	637	646	100	642-891 Barren.															
655-659 Grey-green and purplish-grey, hard, siliceous, acid-intermediate flow. Small feldspar phenocrysts. No quartz.	646	655	90																
	655	662	100																
659-667 Grey-green, hard, silicified, acid-intermediate, to intermediate agglomerate. Fine grained.	662	668	70																
667-722 Dark grey-black, fine grained, chilled, andesite lava flow; a few amygdulæ; some reddish staining.	668	671	50																
	671	682	95																
	682	692	70																
	692	712	85																
	712	722	40																
722-728 Pale yellowish-green, hard, intermediate tuff; fine grained; silicified; no phenocrysts.	722	732	100																
728-732 Dark green, fine grained, amygdular andesite agglomerate.																			
732-746 Olive-green and yellowish-green, intermediate tuff; silicified; as 722-728.	732	737	70																
	737	743	70																
	743	745	50																
746-844 Grey-green, chloritic, acid-intermediate agglomerate and gritty tuff; medium grained; considerable development of chlorite in the matrix.	745	756	90																
	756	766	35																
	766	772	30																
	772	781	80																
	781	791	75																
	791	798	85																
	798	849	100																
844-891 Grey-green, hard, silicified, acid-intermediate agglomerate; small phenocrysts of feldspar and quartz. Some minor development of chlorite in the matrix.	849	852	100																
	852	864	90																
	864	874	100																
	874	885	95																
	885	895	100																

SIZE OF CORE		REMARKS
From	To	
1 1/4" From	To	
7/8" From	To	
From	To	

Examined by _____

ORIGINAL SIGNED
BY
GEO. G. THOMAS

Engineer

Approved by _____

Manager

BUCHANS MINING CO., LTD.
DIAMOND DRILL HOLE RECORD

Location _____
Direction _____ Dip _____
Started _____ Finished _____

COORDINATES
N _____ E _____
Elevation _____

Hole No. 819
Depth 1545'

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																	
891-892 Dark green diabase dyke. Contact with core about 45°.				891-1376 Barren.															
892-893 Pale grey-green, fairly hard, acid-intermediate agglomerate. as 844-891.																			
893-894.5 Dark green diabase dyke.																			
894.5-895.5 Hard, reddish-grey, silicified, acid-intermediate agglomerate.																			
895.5-1162 Massive, dark green, amygdular, diabase-dolerite sill.	895	905	100																
Medium grained. Contacts 45° to core.	905	986	100																
	986	1007	50																
	1007	1078	100																
	1078	1087	90																
	1087	1095	100																
	1095	1107	90																
1162-1264 Grey-green, fairly hard, silicified, acid-intermediate	1107	1164	100																
agglomerate. Some minor development of	1164	1173	45																
chlorite in the matrix. Small	1173	1195	100																
phenocrysts of feldspar and quartz.	1195	1205	77																
	1205	1215	95																
	1215	1224	100																
	1224	1234	100																
	1234	1245	100																
	1245	1255	90																
	1255	1261	100																
	1261	1265	100																
1264-1307 Dark grey-green, chloritic, gritty, acid-intermediate tuff. Less	1265	1275	100																
silicified than above; considerable	1275	1296	100																
development of chlorite in the matrix.	1296	1307	95																
1307-1354 Dark grey-green, acid- intermediate agglomerate; some	1307	1314	90																
development of chlorite. Some siliceous replacement.	1314	1354	100																
1354-1376 Grey-green and olive-green, acid-intermediate gritty tuff. Has	1354	1364	100																
30% white feldspar grains. Some shearing and bleaching.	1364	1372	95																

1360-1370 626 336-
N N N N N

SIZE OF CORE		REMARKS
From	To	
14" From	To	
8" From	To	
From	To	

Examined by H. Maclean Engineer
Approved by GEO. G. THOMAS Manager

ORIGINAL SIGNED
BY
GEO. G. THOMAS

BUCHANS MINING CO., LTD. DIAMOND DRILL HOLE RECORD

Location _____
 Direction _____, Dip _____
 Started _____ Finished _____

COORDINATES

N _____ E _____
 Elevation _____

Hole No. 819
 Depth 1545'

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																		
1376-1408 Pale grey, bleached, feldspathic, gritty tuff; considerably sheared and bleached. Schistose 1391-1397. Some of shearing dips at a very steep angle.	1372	1382	100	Sample 1376-1381	Traces of pyrite.	336132	N	N	N	N	N	1.9								
	1382	1392	100	Sample 1381-1386	Traces of Pb-Zn pyrite. from 1381-1383.	3	N	N	N	N	N	1.4								
				Sample 1386-1391	Traces of pyrite.	4	N	N	N	N	N	2.9								
	1392	1397	100	Sample 1391-1397	Schistose and consider- ably pyritic.	5	N	N	N	N	N	2.8	1395-							
	1397	1407	100	Sample 1397-1402	Lightly pyritic.	6	N	N	N	N	0.8	3.3	1400	336627	N	N	N	N	N	12.6
				Sample 1402-1408	Traces of Pb-Zn from 1402-1403.	7	0.1	0.2	N	N	0.4	2.4	1400-1405	8	N	N	N	N	N	11.2
				1408-1424	Barren.								1415-1425	9	N	N	N	N	N	18.3
1408-1424 Dark green, fine grained, andesite tuff and agglomerate. Shearing at 1412' parallel to core. Some small calcite filled, amygdular fragments.	1407	1418	95																	
	1418	1424	100										1435-1440	30	N	N	N	N	N	12.3
1424-1439 Olive-green, acid-intermediate gritty tuff; small phenocrysts of feldspar and quartz. Some steep shear- ing at 10° to 45° core.	1424	1435	90	1424-1439	Barren.															
	1435	1436	50																	
1439-1445 Massive, dark green, fine grained, intermediate-andesite flow.	1436	1446	100	1439-1445	Barren.															
1445-1457 Gray-green and olive-green acid-intermediate gritty tuff. Medium grained; somewhat chloritic.	1446	1457	100																	
1457-1459 Dark green, fine grained, andesite tuff.	1457	1468	100																	
1459-1461 Olive-green acid-intermediate gritty tuff.																				
1461-1463 Dark green, fine grained, andesite tuff.																				
1463-1479 Olive-green acid-intermediate gritty tuff; shearing at 1477' is 25° to core.	1468	1471	80																	
1479-1545 Dark green, fine grained, andesite tuff with some amygdular fragments with calcite filled amygdules. Calcite cemented matrix in tuff.	1471	1474	40																	
	1474	1481	100	1479-1545	Barren.															
	1481	1489	90																	
	1489	1503	100																	
	1503	1506	80																	
	1506	1525	100																	
	1525	1535	90																	
	1535	1545	75																	
1545' end of hole.																				

1545' end of hole.

SIZE OF CORE		REMARKS
From	To	
14" From	To	
8" From	To	
From	To	

Examined by _____

Approved by _____

ORIGINAL SIGNED
 BY
 GEO. G. THOMAS

Engineer

Manager