

BUCHAN'S MINING CO., LTD. DIAMOND DRILL HOLE RECORD

Sheet No. 1

Location Surface northwest of Lucky Strike
 Direction Down Dip -90° at 0'; -88° at 650'; -85° at 1300'
 Started August 16, 1948 Finished October 12, 1948

COORDINATES

N 6219.32 E 2218.27
 Elevation 919.79

Hole No. 813
 Depth 1390

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																	
0-7 Overburden																			
7-137 Dark green, massive, fine grained amygdular andesite-basalt flow. Calcite filled amygdules. Some flow breccia from 65-75'.	7	14	60	7-340 Barren.															
	14	20	100																
	20	30	85																
	30	42	100																
	42	50	100																
	50	60	60																
	60	74	75																
	74	83	80																
	83	95	70																
	95	100	95																
	100	112	100																
	112	123	70																
	123	132	85																
137-301 Dark gray-green, amygdular, fine grained, andesite-basalt agglomerate; quartz and some calcite fillings in amygdules. Sheared and carbonated 139-141.	132	142	90																
	142	150	75																
	150	159	75																
	159	193	100																
	193	201	70																
	201	219	100																
	219	234	80																
	234	253	100																
	253	263	85																
	263	275	90																
	275	294	100																
	294	301	85																
301-303 Grey-green, massive, amygdular, andesite flow.	301	303	100																
303-309 Dark green, fine grained, andesite agglomerate.	303	309	100																
309-315 Massive, dark green, fine grained, andesite flow and flow breccia.	309	316	100																
315-324 Dark gray-green, fine grained, andesite agglomerate. A few amygdular fragments.	316	319	100																
	319	322	80																
	322	324	100																
324-340 Grey-green and dark green, fine grained, andesite flow breccia.	324	329	88																
	329	338	100																
	338	342	100																

SIZE OF CORE
 2-1/8" From 7 To 10
 1-1/8" From 10 To 500
 1/2" From 500 To 1390

REMARKS

Examined by

Approved by

H. Maclean
 BY
 GEO. G. THOMAS

Engineer

Manager

BUCHANS MINING CO., LTD.
DIAMOND DRILL HOLE RECORD

Sheet No. 2

Location Surface northwest of Lucky Strike
Direction Down Dip -90° at 0'; -88° at 650'; -85° at 1300'
Started August 16, 1948 Finished October 12, 1948

COORDINATES
N 6219.32 E 2218.27
Elevation 919.79

Hole No. 813
Depth 1390

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>340-374</u> Grey-green, fine grained, andesite flow and flow breccia. Some fracture and crush zones. Veined with epidote and quartz. Mud seam at 370'; crushed and sheared 373-374.	342	358	100	<u>340-568</u> Barren.															
	358	364	100																
	364	374	100																
<u>374-389</u> Massive, dark green, medium grained, diabase sill or dyke. Diabase is crushed from 374-376.	374	376	100																
	376	383	95																
	383	387	100																
<u>389-447</u> Olive green with some orange tinted fragments, acid- intermediate agglomerate and coarse gritty tuff. Prominent quartz and feldspar grains. Crushed and sheared from 389-391.	387	397	100																
	397	418	100																
	418	420	85																
	420	447	100																
<u>447-477</u> Dark green, hematite stained, massive, amygdular, andesite flow; calcite fillings in amygdules.	447	476	100																
<u>477-482</u> Massive, dark grey, chilled diabase dyke; cutting at small angle to core.	476	481	80																
<u>482-503</u> Massive, dark green with hematite staining, amygdular andesite flow, as 447-477.	481	500	100																
	500	510	100																
<u>503-525</u> Massive, dark purplish, grey-green, fine grained, andesite agglomerate. Not amygdular.	510	521	95																
	521	531	100																
<u>525-533</u> Olive green, and grey-green, hard and siliceous, acid-intermediate lava flow. Has 15-20% small phenocrysts of feldspar and quartz.	531	533	100																
<u>533-544</u> Massive, dark green, fine grained, intermediate flow.	533	539	100																
	539	544	100																
<u>544-568</u> Dark green and olive-green mixed agglomerate; fragments of amygdular andesite and porphyritic,	544	546	80																
	546	565	100																
	565	569	100																

SIZE OF CORE
2-1/8" From 7 To 10
1-1/8" From 10 To 500
7" From 500 To 1390
From To

REMARKS

Examined by

H. J. Maclean

Engineer

Approved by

C. G. HALL & GRAD
BY
GEO. G. THOMAS

Manager

BUCHANS MINING CO., LTD. DIAMOND DRILL HOLE RECORD

Sheet No. 3

Location Surface northwest of Lucky StrikeDirection DownStarted August 16, 1948Dip -90° at 0'; -88° at 650'; -85° at 1300'
Finished October 12, 1948

COORDINATES

N 6249.32

E

2248.27Elevation 919.79Hole No. 813Depth 1390

General

DESCRIPTION

Section
From To 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

feldspathic, acid-intermediate
lava.568-620 Olive-green and grey-green,
hard, acid-intermediate agglomerate.
Some mixture of lava fragments
similar to 544-568. Fragments have
tiny white feldspar laths.620-627 Dark greenish black andesite
agglomerate; some amygdular fragments.627-645 Olive green, hard, acid-
intermediate agglomerate, as 568-620.
Fragments have tiny white feldspar
laths and some have a few amygdules.645-661 Dark green, andesite agglomerate
as 620-627; has large amygdules.
Bleached 656-661.661-929 Dark grey-green, with
some red and green mottled zones,
acid-intermediate agglomerate
and coarse gritty tuff. Some quartz
and feldspar grains. Some shearing
and development of chlorite in the
matrix. Cut by chilled, dark grey,
diabase dyke. 728-735.5 at steep
angle to core.929-1208 Massive, dark green, diabase-
dolerite sill. Fracture zone 944-950
filled with calcite. Contact at 1208,
about 50° to core.568-1208 Barren.

REMARKS

SIZE OF CORE

2-1/8" From 7 To 10

1-1/8" From 10 To 500

1" From 500 To 1390

From To

Examined by

Hymaclean

Approved

BUCHANS MINING CO., LTD. DIAMOND DRILL HOLE RECORD

Sheet No. 4

Location Surface northwest of Lucky StrikeDirection Down Dip -90° at 0'; -88° at 650'; -85° at 1300'Started August 16, 1948 Finished October 12, 1948

COORDINATES

N 6249.32 E 2248.27Elevation 919.79Hole No. 813Depth 1390

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																	
1208-1211.2 Pale gray-green and ivory tinted, fine grained, siliceous, acid-intermediate agglomerate.	1202	1213	100	Sample 1208-1211.2 Two inch veinlet of barite at 1208'; a few traces of Pb-Zn.	333641	.01	0.4	0.2	N	N	4.2	1205-1210	333953	N	0.2	N	N	N	N
1211.2-1217 Massive grey barite	1213	1220	100	Sample 1211.2-1217 Massive grey barite with disseminated low grade ore.	2	.04	3.6	0.6	4.1	5.8	2.1	1210-1215	4	.02	2.8	0.6	4.7	5.8	7.0
1217-1222 Grey-green, hard, siliceous, acid-intermediate flow; has 25% small phenocrysts of feldspar and quartz. Some narrow veinlets barite 1218.2-1219, in sheared agglomerate zone.	1217	1222	100	Sample 1217-1219 Barren from 1217-1218.2; from 1218.2-1219 are several narrow veins of low grade baritic Pb-Zn ore.	3	.02	1.8	N	2.5	2.6	5.0	1215-1220	5	.02	2.8	0.4	4.7	5.9	5.2
1222-1245 Olive green, acid-intermediate agglomerate; small feldspar and quartz grains; a little alteration and shearing.	1222	1232	100	1219-1276 Barren.								1225-1230	6	.01	0.8	N	0.2	1.0	N
1245-1281.6 Olive green, sheared and bleached, acid-intermediate gritty tuff. From 1271-1281.6 is sheared with considerable development of yellowish sericite schist containing embedded grains of quartz and feldspar.	1232	1240	100									1230-1235	7	N	0.2	N	N	0.4	N
	1240	1247	100									1235-1240	8	N	0.2	N	N	N	9.7
	1247	1251	.85									1240-1245	9	N	N	N	N	N	N
	1251	1257	90									1245-1250	60	N	0.2	N	N	N	N
	1257	1266	100									1250-1255	1	N	0.2	N	N	N	N
	1266	1276	100									1260-1270	2	N	0.2	N	N	N	N
	1276	1283	100	Sample 1276-1280 Barren.	4	N	0.2	N	N	1.2	2.4	1270-1280	3	N	0.2	N	0.2	1.4	N
				Sample 1280-1281.6 Partial replacement by baritic Pb-Zn ore.	5	.04	2.4	0.4	7.2	11.0	3.5	1280-1290	4	N	0.2	N	N	0.4	N
1281.6-1303.5 Grey-green acid-intermediate agglomerate and conglomerate; hard; some mixture of fragments of intermediate and acid-intermediate lava; has narrow bands of hard grey, bedded grit; some bands of sheared, yellowish, sericitic gritty tuff at 1288-1295 and 1302.4-1303.5.	1283	1287	100	Sample 1281.6-1283 Barren.	6	.01	0.4	N	N	1.7	3.6	1300-1305	5	N	0.2	N	N	N	10.3
	1287	1293	100	1283-1301 Barren.															
	1293	1300	100																
	1300	1311	95	Sample 1301-1302.4 Narrow veinlets Pb-Zn from 1301-1301.6; good grade, massive ore band 1301.6-1302.4 1302.4-1303.5 Barren.	7	.04	2.0	1.4	9.0	17.3	8.0	1305-1310	6	N	0.2	N	N	N	13.7
1303.5-1390 Grey and grey-green, well bedded, hard and flinty grit and siltstone. A few pebble conglomerate or agglomerate	1311	1321	100	1303.5-1390 Barren.								1310-1315	7	N	0.2	N	N	N	8.7
	1321	1329	75																
	1329	1332	100																
	1332	1335	100																

SIZE OF CORE
 2-1/8" From 7 To 10
 1-1/8" From 10 To 500
 7" From 500 To 1390
 From To

REMARKS

Examined by

Approved by

G. G. Thomas
 BY
 GEO. G. THOMAS

Engineer

Manager

BUCHANS MINING CO., LTD.
DIAMOND DRILL HOLE RECORD

Sheet No. 5

Location Surface northwest of Lucky Strike
Direction Down Dip -90° at 0'; -88° at 650'; -85° at 1300'
Started August 16, 1948 Finished October 12, 1948

COORDINATES
N 6249.32 E 2248.27
Elevation 919.79

Hole No. 813
Depth 1390

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																	
zones. All fairly hard; no shearing. Bedding at angle to core of 60° at 1306, 60° at 1331, 70° at 1350', 75° at 1373, and 70° at 1382'.	1335	1338	100																
	1338	1344	100																
	1344	1352	100																
	1352	1358	80																
	1358	1365	100																
	1365	1380	100																
	1380	1390	100																
1390' end of hole.																			
					Depth		Feet		Average Assay										
					1211.2-1217		5.8		.04 3.6 0.6 4.1 5.8 2.1										
					1280-1281.6		1.6		.04 2.4 0.4 7.2 11.0 3.5										
					1301-1302.4		1.4		.04 2.0 1.4 9.0 17.3 8.0										

:EC

SIZE OF CORE

REMARKS

2-1/8" From 7 To 10
1-1/8" 14" From 10 To 500
7" From 500 To 1390
From To

Examined by H. G. Thomas
Approved by GEO. G. THOMAS
ORIGINAL SIGNED BY
Engineer
Manager