

BUCHANS MINING CO., LTD. DIAMOND DRILL HOLE RECORD

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Location 1/4 mile East of Sandy Lake and 1/2 mile West of Buchans Railway.
Direction Down Dip Vertical
Started April 2, 1938 Finished June 22, 1938

COORDINATES
N 14950 E 10700
Approx. Elevation 900'

Hole No. 270
Depth 842'

SECTION		DESCRIPTION		CORE								SLUDGE							
From	To	GENERAL	ECONOMIC	Core Rec %	Sample No.	Oz. Au	Oz. Ag	% Cu	% Pb	% Zn	% Fe	Core Rec %	Sample No.	Oz. Au	Oz. Ag	% Cu	% Pb	% Zn	% Fe
		0'-18' Coarse gravel.																	
		18'-64' Coarse gravel, boulder 18'-19', 22'-23', 31'-33' and 45'-47'.																	
64	70	64'-70' Rock recovered in very small pieces.		23															
70	74	Light gray-green, resembles quartz porphyry.	64'-132' Pyritized thruout, and	24															
74	80		quite heavily at brecciated and fractured zones.	35															
80	88	70'-85' Dark green rock, strongly		33															
88	93	resembles diabase. Rock cored in 3/8"-1" pieces.		35															
93	98			27															
98	109	85'-132' Tuff, altered, pyritized, gray; some shearing parallel to core. Numerous		22															
109	112	irregular shaped crystals of white feldspar, less than 1/8".		25															
112	117			16															
117	127			52															
127	132			48															
132	157	132'-156' Tuff, silicified, gray-green.	132'-156' Barren except for a little pyrite.	31															
157	146	Slight alteration towards 156'.		15															
146	151			24															
151	156			47															
156	164	156'-164' Tuff, sheared. Shearing parallel to core.	156'-164' 2-4% pyrite.	23															
164	173			12															
173	178	164'-173' Tuff, silicified, gray-green.		14															
178	183	173'-178' Tuff, sheared. Shearing parallel to core.		31															
183	191			9															
191	195	178'-183' Tuff, silicified, gray-green.	164'-223' Small amount pyrite thruout. 5% to 6% at sheared and fractured sections.	21															
195	200			16															
200	208	183'-223' Tuff, silicified. Some shearing at 200'.		22															
208	213			15															
213	218			10															
218	223			17															
223	232	223'-240' Tuff, gray-green, white feldspar. Crystals present similar to 85' - 132'.		77															
232	236			56															
236	239			41															
239	240			56															
240	243	240'-263' Same as 223'-240'.		27															
243	248			59															
248	253			6															
253	258			18															

SIZE OF CORE		REMARKS
From	To	
1 1/4" From	64' To 68'	
1 1/4" From	68' To 842'	
From	To	

Examined by _____
Approved by _____
Engineer
Manager

BUCHANS MINING CO., LTD. DIAMOND DRILL HOLE RECORD

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Location $\frac{1}{4}$ mile East of Sandy Lake and $\frac{1}{4}$ mile West of Buchans Railway
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Approx. N 14950 E 10700
Elevation 900'

Hole No. 270
Depth 842'

SECTION		DESCRIPTION	ECONOMIC	Core Rec. %	CORE							Core Rec. %	SLUDGE						
From	To				GENERAL	Sample No.	Oz. Au	Oz. Ag	% Cu	% Pb	% Zn		% Fe	Sample No.	Oz. Au	Oz. Ag	% Cu	% Pb	% Zn
258	263			9															
263	268			8															
268	273			18															
273	278			10															
278	283			7															
283	288	283'-288' No core.	283'-323' Pyrite in small amounts thru-	No core															
288	293	288'-301' Tuff - core 1/4" pieces.	out core but well pyritized in sheared																
293	298		and altered sections.																
298	301			8															
301	306	301'-323.5' Altered tuff, Dark green,		9															
306	311			10															
311	316			20															
316	320			17															
320	323			27															
323	324	323.5'-358' Light gray to light green		61															
324	325	quartz porphyry. Phenocrysts common.		58															
325	332			95															
332	339			58															
339	342			56															
342	347			57															
347	348			75															
348	352			81															
352	358			80															
358	367	358'-371' Slightly altered quartz porphyry, greenish.	358'-428' Very few traces pyrite.	46															
367	371			76															
371	377	371'-388' Highly silicified quartz		83															
377	381	porphyry. Light gray phenocrysts		19															
381	386	1/8" to 1/4"		27															
386	391	388'-391' 1/4" stringers white quartz.		80															
391	395	391'-401' same as 371'-388'.		64															
395	401			25															
401	407	401'-409' Highly silicified gray rock.		52															
407	409	Resembles section 371'-388' but no		20															
409	417	phenocrysts present. May be silicified		44															
417	424	tuff. (?)		18															
424	428	409'-412' Altered pyritized greenish tuff.		57															
428	432	412'-428' Same as 371'-388'.		16															
432	436	428'-436' Same as 401'-409'.	Some pyrite at 436'.	25															
				21															
				12															

SIZE OF CORE

From To

REMARKS

SIZE OF CORE		REMARKS
From	To	
1 1/2"	64' To 65'	
3"	66' To 842'	
From	To	

Examined by

430'-435' 17-3418 Nil Tr. Nil Tr. Tr. 1.6

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Page 3

Location $\frac{1}{2}$ mile East of Sandy Lake & $\frac{1}{2}$ mile West of Buchans Railway.

COORDINATES

Hole No. 270

Direction Down Dip Vertical

N 14950

E 10700

Depth 842'

Started April 2, 1938 Finished June 22, 1938

Approx. Elevation 900'

DESCRIPTION				CORE								Sludge Section SLUDGE							
SECTION		GENERAL	ECONOMIC	Core Rec. %	Sample No.	Oz. Au	Oz. Ag	% Cu	% Pb	% Zn	% Fe	Core Rec. %	Sample No.	Oz. Au	Oz. Ag	% Cu	% Pb	% Zn	% Fe
From	To																		
436	440	436'-481' Highly silicified gray rock.	436'-440' Slightly pyritized.	23								436-440	17-3419	Nil	Tr.	Tr.	0.5	0.7	1.3
440	445	Resembles section 371'-388' but no	440'-495' Barren.	84															
445	452	phenocrysts seen. May be silicified tuff.		8															
452	457			13															
457	462			24															
462	467			20															
467	472			32															
472	477			21															
477	481			31															
481	488	481'-488' Same as 371'-388'. Phenocrysts common.	Barren.	57															
488	491	488'-525' Same as 401-409, but a few		52															
491	495	phenocrysts seen at 514'.		54															
495	497		495'-523' Slightly pyritized.	56															
497	500			17															
500	505			14															
505	509			14								505-510	17-3420	Nil	Tr.	Tr.	0.2	0.2	1.6
509	514			26															
514	519			24															
519	523		523'-592' Scattered traces pyrite.	24															
523	531	523'-526' Tuff, silicified, light gray.		10															
531	547	526'-545' Lava. Amygdules filled with		24								540-545	17-3421	Nil	Tr.	Nil	0.1	0.1	2.5
547	572	chlorite and small amounts of calcite.		40								550-555	17-3422	"	"	"	Tr.	0.1	5.0
572	577	Resembles diabase in hole 265 at Middle		12								570-575	17-3423	"	"	Tr.	0.1	0.1	5.1
577	592	Branch.	592'-674' Barren.	27															
592	599	545'-547' Tuff, silicified, light gray.		55															
599	605	547'-566' Quartz porphyry. A few pheno-		25															
605	609	crysts seen in parts thruout. Rock resembles		50															
609	619	tuff in section 545'-547' except for		55															
619	625	presence of quartz phenocrysts.		32															
625	626	566'-692' Altered greenish quartz porphyry.		53															
626	632	592'-597' Brownish medium grained arkose.		95															
632	638	597'-599' Greenish fine grained sediments.		90															
638	642	Also a band of calcite 4" at 599'.		91															
		599'-628' Brownish medium grained arkose.																	
		628'-639' Dark green amygdaloidal lava,																	
		calcite and narrow calcite stringers. Few																	
		fragments of arkose at 634'. Shearing 70°																	
		to core.																	

SIZE OF CORE	
From	To
1 1/4" From 64'	To 66'
1/2" From 66'	To 842'
From	To

REMARKS

Examined by

Engineer

Approved by

Manager

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Hole No. 270
 Depth 842'

SECTION		DESCRIPTION	ECONOMIC	Core Rec. %	CORE							SLUDGE							
From	To				GENERAL	Sample No.	Oz. Au	Oz. Ag	% Cu	% Pb	% Zn	% Fe	Core Rec. %	Sample No.	Oz. Au	Oz. Ag	% Cu	% Pb	% Zn
		639'-642' Reddish medium grained arkose. Some mud at 642'. Rock broken up. Contact sharp, well defined at about 90° to core.																	
642	656	642'-652' Light colored medium grained arkose. 5" of lava at 656'-658.5'.		38															
656	662			12															
662	670	662'-683' Dark green lava.		26															
670	674	675'-678' Lava tends to split along calcite seams lengthwise of core.		75															
674	679			72															
679	683	683'-692' Medium grained arkose.		84															
683	692	692'-700.5' Greenish medium grained arkose with thin band bedded sediments at 696'.		53															
692	701			27															
701	709	Lava-arkose contact at 700.5'.		14															
709	717	701'-708' Greenish silicified lava.		3															
717	724	708'-717' Diabase or dike rock.		12															
724	729	717'-724' Chloritized lava badly sheared.		20															
729	734	Low core recovery.		65															
734	741	724'-729' Silicified quartz porphyry as indicated by few phenocrysts seen		74															
741	746			30															
746	750		A trace of chalcopyrite at 754'.	15															
750	756	729'-756' Highly silicified and brecciated quartz porphyry. A few scattered phenocrysts.		50	17-3436	Nil	Tr.	Nil	Tr.	Tr.	3.2	750-755 17-3427	"	"	0.1	"	Tr.	3.2	
756	766		756'-802' Pyrite in small amounts 3% to 4%.	20	7	"	Nil	"	Nil	Nil	3.1	755-760	28	"	"	Nil	Nil	4.0	
766	772			15	8	"	"	"	"	"	3.1	760-765	29	"	"	"	"	3.0	
772	779	756'-802' Similar to 729-756' but shows a little more pyrite.		12	9	"	Tr.	Tr.	Tr.	0.1	3.0	765-770 17-3430	"	"	"	Tr.	"	4.5	
779	786			70	17-3440	"	"	"	"	Tr.	2.5	770-775 17-3431	"	"	Tr.	"	"	3.7	
786	793			36	1	"	Nil	Nil	Nil	"	2.4	775-780	32	"	"	"	"	3.0	
793	802	Mineralization associated with spots of chlorite.		56	2	"	"	"	"	"	15.3	780-785	33	"	"	"	"	0.1	3.5
									</										

END

SIZE OF CORE
 From To
 1 1/4" From 64' To 66'
 1 1/4" From 66' To 842'
 From To

REMARKS Dip of hole checked at 842'. Dip 87°.

Examined by A.A. McCloskey 0'-642'
F.M. Stephens 642'-835' *F.M. Stephens*
 Engineer
 Approved by *[Signature]*
 Manager