

19  
38

(5)

EMERALD MINE

800327

D. D. Hole No. 1

Lat. 6354.97  
Bearing S.70 11' W

Dep 4106.09  
Length 222 feet

Elev. 6550.97  
Dip - 45 degrees

From	To	Sample Width:	No.	Description	Au	Ag	Cu	Pb.	Zn
0.0	- 43.0			Medium grained tuffs					
43.0	- 46.0			Light fine grained felsite dike					
46.0	- 60.0			Medium grained tuffs					
60.0	- 62.0			Altered tuffs					
62.0	- 76.0			Volcanic tuffs					
76.0	- 76.0			1/2" calcite stringer slightly min. with zinc blend					
76.0	- 101.0			Tuffs					
101.0	- 103.0			Tuffs altered & silicified					
103.0	- 125.5			Medium to coarse grained tuffs					
125.5	- 127.0	1.5'	7469	Sil. vein matter about 5% min with Pb. and Zn.	Tr.	Tr.	Nil	Nil	1.2
127.0	- 149.0			Coarse to medium grained tuffs					
149.0	- 152.0			Light colored fine grained dike					
154.0	- 154.0			1" stringer slightly min. with Sil					
154.0	- 157.0			Medium to coarse grained tuffs					
157.0	- 163.0			Silicified and altered tuffs					
163.0	- 165.0			Dark colored fine grained dike					
165.0	- 168.0			Sheared and altered tuffs					
168.0	- 168.0			2" stringer slightly min. with Zinc.					
168.0	- 172.0			Silicified and altered tuffs with a few knife edge str. of Qtz. and Zinc bands					
172.0	- 222.0			Fine grained altered tuffs					

END OF HOLE

Total length is 222 feet

Core lost is 21.5 feet

Percentage of core recovered is 90.3%

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## EMERALD MINE

D.D. Hole No. 2

Lat. 6326.55  
Bearing N. 70 10' EDep. 3793.43  
Length 248 feetElev. 8573.40  
Dip.- 46 degrees

From	To	Width	Sample No.	Description	Au	Ag	Cu	Pb.	Zn
0.0	36.0			Medium to coarse grained tuffs					
36.0	-117.0			Sheared and altered tuffs					
117.0	-131.0			Sheared and altered tuffs out by many small str. with some gouge					
120.0	-121.0	1.0'	7490	very slightly min. with pyrite silicified and mineralized about 5% with Pb, Zn: & Fe.	Tr.	1.20	Tr	.10	1.20
131.0	-136.0			Altered and silicified tuffs					
136.0	-144.0			Medium to fine grained tuffs					
144.0	-155.0			Sheared and altered tuffs					
155.0	-161.0			Dark fine grained dike with some pyrite					
161.0	-187.0			Sheared and altered tuffs					
187.0	-198.0			Altered and silicified tuffs very slightly min. with knife edge str. showing Zn.					
198.0	-199.5	1.5'	7486	Silicified vein matter about 15% min. with Zn, blende and showing traces of galena	Tr.	1.88	.30	.20	14.5
199.5	-205.0			Silicified vein matter sparsely min. with Fe.					
205.0	-210.0			Dark colored, medium to coarse grained tuffs					
210.0	-216.0			Dark colored tuffs					
216.0	-219.0			Light colored and silicified and altered tuffs					
219.0	-222.0			Vein matter sparsely min. with galena and Zinc blende					
221.5	-222.5	1.0'	7491	Vein matter heavily min. with Cu:Pb: & Zn	Tr.	6.15	1.90	nil	14.6
222.0	-222.5			Heavy lead and zinc sulphides					
222.5	-235.0			Vein matter silicified and slightly min. with galena and Zinc blende					
222.5	-225.0	2.5'	7492	Vein material about 1% min with Pb.: and Zinc	Tr.	Tr.	nil	nil	1.50

EMERALD MINE

D. D. Hole No. 2 -Continued

<u>From</u>	<u>To</u>	<u>Width</u>	<u>Sample</u> <u>No.</u>	<u>Description</u>	<u>Au.</u>	<u>Ag.</u>	<u>Cu.</u>	<u>P.S.</u>
235.0				Mud seam				
235.0	-240.0			Medium grained tuffs				
240.0				Mud seam				
240.0	-248.0			Medium grained tuffs				

End of Hole

Total length is 248.0 feet finished Sept. 2nd. 1930

Core lost is 44.5 feet

Percentage of core recovered is 82.0%

EMERALD MINE

D. D. Hole No. 3

Lat. 6375.76  
Bearing S.79.53' W.

Dep. 4024.81  
Length 110.0 ft.

Elev. 6561.32  
Dip 28 degrees 49 min.

From	To	Width	Sample No.	Description	Au	Ag	Cu.	Pb.	Zc.
0.0	- 5.0			Overburden					
5.0	- 28.0			Tuffs, badly decomposed and altered					
28.0	- 31.0			Silicified tuffs, very sparsely min. with pyrite					
31.0	- 41.0			Vein material very slightly min. with Zinc and Iron					
41.0	-			Mud seam					
41.0	- 45.5			Vein material, decomposed, slightly min. with Zinc and Iron					
45.5	- 49.0			Vein material, highly silicious					
49.0	- 54.0			Silicious vein, 1% min. with sulphides					
54.0	- 65.0			Silicified vein showing some trace of Calcite					
65.0	- 73.0			Altered and silicified tuffs					
73.0	- 74.0			Fine grained dark colored dyke					
74.0	- 76.0			Light colored fine grained dyke					
76.0	- 84.0			Altered and silicified tuffs					
84.0	- 86.0			Dark colored fine grained dyke					
86.0	- 93.5			Sheared, altered and silicified tuffs slightly mineralized					
93.5	- 97.5			Fine grained felsite dyke					
97.5	- 98.5			Sheared and altered zone with mud seams					
98.5	- 102.0			Fine grained felsite dyke					
102.0	- 107.0			Silicified and altered tuffs showing scanty mineralization					
107.0	- 107.5			Vein material, silicious, containing 10% sulphides					
107.5	- 110.0			Altered and silicified tuffs					

Hole finished Sept. 5th. 1930  
Core recovered - 82%

EMERALD MINE

D. D. Hole No. 4

Lat. 6617.85  
Bearing S.75 28' W.

Dep. 3946.66  
Length 122 ft.

Elev. 6643.04  
Dip 31 degrees, 25 min.

From	To	Width	Sample -Sam-No.	Description	Au.	Ag.	Cu.	Pb.	Zn.
0.0-	17.0			Dark, medium grained tuffs					
17.0-	19.0			Altered tuffs, specks of iron					
19.0-	21.0			Altered tuffs, sheared					
21.0-	21.5			Fine grained white dyke					
21.5-				Two inch quartz stringer					
21.5-	29.0			Sheared and altered tuffs					
29.0				Mud seam two inches thick					
29.0-	34.0			Sheared and altered tuffs.					
34.0-	48.0			Dark fine grained tuffs					
48.0-	68.0			Tuffs, altered and decomposed					
68.0				Mud seam					
68.0-	73.0			Tuffs, sheared, altered and silicified					
73.0-	74.5			Vein, slightly min. with Pb.:Zn.: and Fe.:					
74.5-	79.0			Vein, slightly min. with Pb.: Zn.: and Fe.					
79.0-	90.5			Tuffs, somewhat altered and decomposed					
90.5-	92.5			Fine grained white dyke					
92.5-	93.0			Tuffs					
93.0-	94.0			Fine grained white dyke					
94.0-	108.0			Dark colored tuffs					
108.0-	109.0			Light colored fine grained dyke					
109.0-	110.5	1.5	7497	Vein, slightly min. with Pb. Zn. and Fe.	Tr.	.60	nil	nil	1.30
110.0-	110.5			Vein, fairly well mineralized					
110.5-	112.5			Vein, very poorly mineralized					
112.5-	122.0			Dark, medium grained tuffs					

Hole finished September 11th. 1930  
Core recovered 75%

EMERALD MINE

D. D. Hole No. 5- No. 2 Tunnel

Lat. 5792.38  
Bearing N. 70 44' W

Depth 4414.96  
Length 483.0'

Elev. 5990.64  
Dip = Horizontal

From -To	Width	Sample No	Description	Au.	Ag.	Cu.	Pb.	Zn.
0.0- 4.0			Sheared and altered tuff					
4.0- 9.5			Medium grained tuffs					
9.5- 15.0			Gouge and slickenside, some qtz.					
15.0- 20.0			Sheared and altered tuff, mud seam at 20.0 ft.					
20.0- 25.0			Sheared and altered tuffs					
25.0- 39.0			Light colored fine grained andesite					
39.0- 52.0			Medium and fine grained tuffs					
52.0- 70.0			Andesite					
72.0- 98.0			Tuffs, sheared and altered					
98.0-129.0			Medium grained tuffs, sheared and altered, Few small stringers of quartz and calcite					
129.0-168.0			Altered andesite, no mineralization					
168.0-170.0			" " " "					
170.0			1" stringer of Qtz. and Zn.					
174.0			Quartz stringers					
174.0-196.0			Altered andesite					
196.0-227.0			Altered andesite, sheared and broken					
227.0-230.0			Altered andesite, sheared and broken					
230.0-233.5	3.5'	7409	Vein showing 10% min. Cu. Pb. and Zn. Cuts core at angle of 45 degrees. Run 1.5' short	Tr. 2.40		Tr.	.90	18.4
233.5-237.0			Brecciated vein showing considerable rhodochrosite					
237.0-241.0			Altered andesite, sheared and brecciated					
241.0-245.0			Light colored fine grained andesite					
245.0-261.0			Altered andesite, sheared and brecciated, mostly dark colored					
261.0-280			Andesite, porphyritic, light colored					

EMERALD MINE

D. D. Hole No 5 -Continued

F	From	To	Width	Sample N No.	Description	Au.	Ag.	Cu.	Pb.	Zn.
	280.0	297.0			Dark fine grained altered andesite					
	297.0	309.0			Light, fine grained and altered andesite					
	309.0	312.0			Same as above but cut by a few Qtz. stringers					
	312.0	347.0			Light colored andesite, fine grained sheared and altered					
	347.0	361.0			Light colored andesite, porphoritic,					
	361.0	366.0			Same as above, rusty colored					
	366.0	370.0			Dark colored altered andesite					
	370.0	375.0			Light colored, fine frained and altered andesite					
	375.0	377.0			<del>Sheared and altered andesite</del>					
					<del>porphoritic</del>					
					Vein material with Qtz and Rhodochrosite. No mineralization					
	377.0	415.0			Sheared and altered andesite-porphoritic. (1/2" stringer at 384.0', of Zinc cutting core at anle of 30 degrees)					
	415.0	419.0	4.0'	7410	Heavy lead and zinc sulphides	Tr. 8.95		1.12	12.2	28.4
					Sample of core					
				7411	Sample of cuttings	Tr. 3.80		.28	2.4	9.0
					Run 3.0' short					
	419.0	446.0			Altered andesite, dark and fine grained. 1/4" stringer, at Pb. & Zn cutting core at angle of 30 degrees at 426.5					
	446.0	483.0			Altered andesite					

Hole finished October 17th. 1930  
Core recovered - 85.4 %

EMERALD MINE

D. D. Hole No. ~~1~~ No. 2 Tunnel

Lat. 5913.63  
Bearing N. 68 8' W.

Dep. 4388.08  
Length 496 feet

Elev. 5990.83  
Dip- Flat

From	To	width	Sample No	Description	Au	Ag	Cu.	Pb.	Zn.
0.0-	21.5			Fine grained dark colored sheared and altered andesite with specks of pyrite					
22.5				Black gouge					
21.5-	61.0			Dark colored fine grained altered andesite					
61.0-	62.0			Light colored fine grained altered andesite					
62.0-	91.0			Dark colored fine grained altered andesite					
91.0-	93.0			Light colored fine grained altered andesite					
93.0-	94.0			Dark colored fine grained altered andesite					
94.0-	104.0			Light colored fine grained altered andesite					
104.0-	143.0			Dark colored fine grained altered andesite					
143.0-	145.0			Silicified and altered andesite					
145.0-	233.0			Medium to dark colored, medium grained altered andesite					
233.0-	237.5			Light colored, fine grained altered andesite					
237.5-	254.0			Dark colored fine grained altered andesite					
254.0-	256.0			Light colored fine grained andesite altered and silicified					
256.0-	256.5	0.5	7412	Silicified vein material mineralized with galena and zinc blende	Tr.	.80	.12	nil	5.3
255.0-	260.0	5.0	7434	Cuttings	Tr	Tr	nil	nil	nil
256.5-	270.0			Light colored coarse grained altered andesite					
270.0-	271.0	1.0	7413	Vein material silicified and very slightly mineralized with Zinc blende	Tr	Tr	nil	nil	1.8
270.0-	275.0	5.0	7435	Cuttings	Tr	Tr	nil	nil	.75
271.0-	281.0			Light colored fine grained altered andesite slightly silicified					



EMERALD MINE

D. D. Hole No. 6 - Continued

From- To	Width	Sample No	Description	Au.	Ag.	Cu.	Pb.	Zn
281.0-295.0			Medium to light colored fine grained altered andesite slightly silicified					
295.0-303.0			Light colored fine grained altered andesite					
303.0-310.0			Dark colored fine grained altered andesite sheared and broken					
310.0-320.0			Fine grained, light colored, altered andesite					
320.0-323.0			Medium grained dark colored altered andesite					
323.0-324.5			light colored fine grained andesite					
324.5-327.0	2.5'	7414	Vein material, silicified and mineralized with galena and zinc blende	Tr	3.40	.53	1.5	21.5
327.0-330.0	5.0	7436	Cuttings	Tr	1.90	.32	1.6	13.6
327.0-330.0			Dark colored sheared and altered andesite					
330.0-339.0			Light colored fine to medium grained altered andesite					
339.0-341.5			Dark colored fine grained altered andesite					
341.5			1/4" stringer of Pb. : Zn. : & Cu. :					
341.5-358.0			Light colored medium grained andesite					
358.0-359.5			Two 1/4" stringers in altered andesite					
359.5-361.0	1.5	7415	Silicified vein material mineralized 10% with Pb., Zn., & Cu. ,	Tr	4.20	2.18	nil	8.4
360.0-365.0	5.0	7437	Cuttings	Tr.	.70	.44	1.1	3.6
361.5			1/2" stringer of Zinc & Cu.					
361.5-366.0			Light colored silicified and altered andesite, No mineralization					
366.0-377.0			Dark colored medium to coarse grained altered andesite					
377.0-382.0			Light colored medium to coarse grained sheared, altered and silicified andesite					
382.0-440.0			Dark colored medium grained altered andesite					
440.0-445.5			Light colored fine grained silicified and altered andesite					
444.5-445.0	0.5	7416	Vein material silicified and mineralized with 5% Zn., Pb., & Cu.,	Tr	4.60	.76	6.5	10.8
440.0-445.0	5.0	7438	Cuttings	Tr	Tr	nil	nil	nil

EMERALD MINE

D. D. Hole No. 6 - Continued

<u>From</u>	<u>To</u>	<u>Width</u>	<u>Sample</u> <u>No.</u>	<u>Description</u>	<u>Au.</u>	<u>Ag.</u>	<u>Cu.</u>	<u>Pb.</u>	<u>Zn.</u>
445.0	446.5			Silicified and altered andesite, medium grained					
446.5	450.0	3.5'	7417	Vein material silicified and 5% mineralized with Cu.:Pb.: & Zn.:	Tr	1.55	.66	nil	13.0
445.0	450.0	5.0'	7439	Cuttings	Tr.	.93	.28	nil	7.8
450.0	454.5	4.5'	7418	Vein material silicified and slightly mineralized with Pb.:Cu.: & Zn.	Tr.	5.45	1.13	nil	3.1
450.0	455.0	5.0	7440	Cuttings	Tr.	3.52	1.06	nil	6.8
455.0	496.0			Light colored medium to coarse grained altered andesite					

END OF HOLE

Hole finished Nov. 2nd. 1930

29.5 feet of core lost in hole  
92.2 % recovered

D. D. Hole #7

EMERALD MINELat. 5918.48 Tunnel No. 2  
Bearing N. 70d 41' WDep 4388.40  
Dip - 29 d. 22'

Elev. of collar 5989.43

From - To	Width	Sample No.	Description	Au.	Ag.	Cu.	Pb.	Zn.
0-0-	17.5		Light colored, medium grained altered andesite Silicified with fe <sup>w</sup> specks of pyrite, core much broken					
17.5-	28.0		Medium to dark colored, medium to fine grained altered andesite, silicified with specks of pyrite					
28.0-	55.0		Medium to light colored, fine grained altered andesite					
55.0-	60.0		Medium to dark colored, fine grained altered andesite					
60.0-	68.5		Medium to light colored, fine grained, altered andesite					
68.5-	97.0		Light colored, fine to medium grained, altered andesite					
97.0-	100.0		Dark colored, fine grained altered andesite					
100.0-	109.0		Light colored, fine grained altered andesite					
109.0-	120.0		Dark colored, fine grained altered andesite					
120.0-	145.0		Medium to light colored, fine grained altered andesite					
145.0-	150.0		Very light colored, fine grained altered andesite					
150.0-	159.5		Dark colored, medium grained altered andesite					
159.5-	166.0		Medium colored, fine grained altered andesite					
166.0-	183.0		Light colored, fine grained, altered andesite with stringers of Rhodochrosite, silicified but no mineralization, Mud seam at 169.0 and 169.5					
183.0-	198.0		Light colored, medium grained, altered andesite. 1/4" str. of rhodochrosite at 183.0 cuts core at 20 degrees, contact cuts core at about 25 degrees					
198.0-	200.0		White fine grained, altered, andesite, str. of Quartz and rhodochrosite, no mineralization					

EMERALD MINE

D. D. Hole #7 - Continued

From to	Width	Sample No	Description	Au.	Ag.	Cu.	Pb.	Zn.
200.0-205.0			Very light colored and fine grained altered andesite					
205.0-208.0			Dark colored medium grained, altered andesite					
208.0-209.5			Light colored, fine grained, altered andesite					
209.5-216.0			Dark colored, fine grained, sheared and altered andesite					
216.0-223.0			<del>Dark colored, medium grained, altered andesite</del>					
<del>223.0-231.0</del>			<del>Light colored, fine grained, altered andesite</del>					
223.0-230.0			Dark colored sheared and altered andesite, medium grained					
230.0-235.0			Medium colored, fine grained, altered andesite a few specks of pyrite					
235.0-237.5			Very dark colored, medium to fine grained, altered andesite with a few specks of pyrite, 2" str. 10% mineralized with pyrite at 237.0					
237.5-246.0			Medium colored, medium to coarse grained altered andesite					
246.0-248.0			Light to medium colored, fine grained, altered andesite. Well banded at 45 degrees to core					
248.0-253.0			Dark colored, fine grained, altered andesite sheared and brecciated.					
253.0-256.0			Medium colored, fine grained, altered andesite. brecciated with much rhodochrosite					
256.0-258.0			Dark colored, fine grained, altered andesite, core very broken.					
258.0-258.5			Light colored, fine grained, altered andesite					
258.5-260.0			Dark colored, fine grained, altered andesite					
260.0-263.5			Light colored, fine grained, altered andesite					
263.5-270.0			Dark colored, fine grained, altered andesite. very slightly mineralized with pyrite. 1/4" str. of quartz at 266.0					
270.0-272			Medium colored, medium grained, altered andesite Mud seam at 272.0					

EMERALD MINE

D. D. Hole #7 - Continued

From	To	Width	Sample No	Description	Au.	Ag.	Cu.	Pb.	Zn
272.0	-280.0			Medium colored, very fine grained, altered andesite with a few specks of pyrite					
280.0	-282.0			Dark colored, fine grained, altered andesite					
282.0	-285.0			Light colored, medium grained, altered andesite					
285.0	-288.0			Light colored, very fine grained, silicified and altered andesite. Specks of pyrite					
288.0	-290.0			Very dark, fine grained, altered andesite with a few specks of pyrite					
290.0	-292.5			Medium to dark, fine grained, sheared and altered andesite					
292.5	-293.5			Light colored, very fine grained, altered andesite with a few specks of pyrite					
293.5	-297.0			Very dark colored, fine grained, sheared and altered andesite with a few specks of pyrite					
297.0	-304.0			Dark colored, medium grained, sheared and altered andesite					
304.0	-306.0			Medium colored, fine grained, altered andesite with a few specks of pyrite					
306.0	-309.0			Dark colored, fine grained, altered andesite					
309.0	-313.5			Light colored, very fine grained, altered andesite					
313.5	-318.0			Medium grained colored, coarse grained, altered andesite with a few specks of pyrite					
318.0	-319.0			Same as above but cut length ways of the core by 1/8" str. calcite, galena, and zinc blende					
319.0	-337.0			Coarse grained, granular, medium to dark colored altered andesite					
337.0	-341.0			Very dark colored, very fine grained, altered andesite with specks of pyrite					
341.0	-350.0			Dark colored, coarse grained, sheared and altered tuffs					
350.0	-358.5			Medium colored, very fine grained, altered andesite					
358.5	-36000			Light colored, fine grained, altered andesite, sheared and brecciated with stringers of rhodochrosite					

EMERALD MINE

D. D. Hole #7 - Continued

From + To	Width	Sample No	Description	Au.	Ag.	Cu.	Pb.	Zn.
360.0-362.0			Sheared and altered tuffs					
362.0-364.5			Coarse grained altered tuffs					
364.5-368.0			Dark colored, fine grained, altered andesite with specks of pyrite.					
368.0-371.0			Light colored, fine grained, sheared and altered andesite. Specks of pyrite and a little quartz					
371.0-389.0			Medium colored, fine grained, altered andesite. Very uniform					
389.0-390.0			1/2" stringer of quartz, lead and zinc cutting core at about 10 degrees.					
390.0-418.0			Light colored to white, very fine grained altered andesite.					
418.0-421.0			Altered tuffs					
421.0-427.0			Light colored, fine grained, altered andesite					
427.0-428.0			Quartz with no mineralization.					
428.0-430.0	2.0'	7441	Vein material with quartz, slightly mineralized with zinc and copper	Tr. 4.22		1.48	nil	2.4
430.0-439.0			Medium colored, fine grained, altered andesite 1/4" stringer of Zn. at 433.0					
439.0-443.0			Light colored, fine grained, altered andesite					
443.0-458.0			Medium colored, medium grained, altered andesite slightly silicious					
458.0-471.0			Medium colored, fine grained, altered andesite					
471.0-485.0			Coarse grained tuffs.					
485.0-510.0			Medium colored, coarse grained tuffs					
510.0-512.0			Dark colored, fine grained, altered andesite					
512.0-524.5			Medium to light colored, fine grained, sheared and altered andesite. Shows flow banding.					
524.5-530.0			Dark colored, fine grained, sheared and altered andesite.					

Hole finished Nov. 20th. 1930

Total core lost - 11.0 feet

Percentage of core recovered - 79.06%

EMERALD MINE

D. D. Hole No. 3 : from Lower tunnel

Latitude 6070.35  
Dip- Flat

Departure 4702.32  
Bearing - N 89d10'

Elevation 5429.71

Footage	Description	Remarks	Au.	Ag.	Cu.	Pb.	Zn.
0.0-198.0	Dark colored, medium to fine grained altered andesite						
198.	1 inch stringer of rhodochrosite						
198.0-414.0	Dark colored, medium to fine grained altered andesite						
414.0-425.0	Light to medium colored, fine grained, altered andesite showing banding with line of core						
425.0-468.0	Dark colored, fine grained, altered andesite	1/8" str. Zn. at 441.0' 1/2" str. rhodochrosite at 447.0' Small bunch of Zn. at 458.0' of 1/4" wide					
468.0-470.0	Light colored medium grained altered andesite						
470.0-469.0	1/2" str. well min. with Cu.						
470.0-483.0	Dark colored, medium grained, altered andesite with few specks of pyrite						
483.0-522.5	Medium colored, medium grained, altered andesite	1/2" str. of Calcite and rhodochrosite at 504.0'					
522.5-526.0	Medium to light colored, sheared and altered andesite						
526.0-560.0	Dark colored, fine grained, altered andesite						
560.0-571.0	Dark colored, coarse grained, sheared and brecciated, altered andesite						
571.0-603.0	Dark colored, medium to fine grained, altered andesite						
603.0-604.0	Cut by many small stringers of of Calcite						
604.0-644.0	Dark colored, medium to fine grained altered andesite	635-642 core chopped					
644.0-664.0	Medium colored, coarse grained, granular, granite-diorite						
664.0-680.0	Medium colored, medium to coarse grained altered andesite						

EMERALD MINE

D. D. Hole No. 9 from Lower tunnel

Latitude 6069.86

Departure 4731.29

Elevation 5430.04

Dip- Flat

Bearing North 89 degrees 34 minutes East

Footage	Description	Remarks	Au.	Ag.	Cu.	Pb.	Zn
0.0-66.0	Dark colored, fine grained, altered andesite						
66.0-106.0	Very dark and very fine grained altered andesite, almost glassy						
106.0-110.5	Dark colored, coarse grained, altered andesite						
110.5-140.0	Black, very fine grained, altered andesite						
140.0-152.0	Dark colored, coarse grained, altered andesite. Brecciated.						
152.0-186.0	Medium colored, medium to coarse grained, brecciated and altered andesite						
186.0-202.0	Black, very fine grained, altered andesite						
202.0-224.0	Dark colored, medium to fine grained, altered andesite, sheared and much brecciated						
224.0-249.0	Medium colored, very fine grained, almost glassy, altered andesite, appears silicious						
249.0-265.0	Medium colored, very fine grained, altered andesite, sheared and brecciated						
265.0-281.0	Medium colored, very fine grained, altered andesite						
281.0-297.0	Medium colored, medium grained, altered andesite						
297.0-298.0	Light colored, coarse grained, altered andesite						
298.0-306.0	Medium colored, fine grained, altered andesite						
306.0-325.0	Medium to dark colored, fine grained altered andesite. Sheared and brecciated						
325.0-339.0	Medium to light colored, brecciated, sheared and recemented altered andesite						



EMERALD MINE

D. D. Hole No. 9 from Lower tunnel

Latitude 6069.86  
Dip- Flat

Departure 4731.29  
Bearing North 89 degrees 34 minutes East

Elevation 5430.04

Footage	Description	Remarks	Au.	Ag.	Cu.	Pb.	Zn
0.0- 66.0	Dark colored, fine grained, altered andesite						
66.0-106.0	Very dark and very fine grained altered andesite, almost glassy						
106.0-110.5	Dark colored, coarse grained, altered andesite						
110.5-140.0	Black, very fine grained, altered andesite						
140.0-152.0	Dark colored, coarse grained, altered andesite. Brecciated.						
152.0-186.0	Medium colored, medium to coarse grained, brecciated and altered andesite						
186.0-202.0	Black, very fine grained, altered andesite						
202.0-224.0	Dark colored, medium to fine grained, altered andesite, sheared and much brecciated						
224.0-249.0	Medium colored, very fine grained, almost glassy, altered andesite, appears silicious						
249.0-265.0	Medium colored, very fine grained, altered andesite, sheared and brecciated						
265.0-281.0	Medium colored, very fine grained, altered andesite						
281.0-297.0	Medium colored, medium grained, altered andesite						
297.0-298.0	Light colored, coarse grained, altered andesite						
298.0-306.0	Medium colored, fine grained, altered andesite						
306.0-325.0	Medium to dark colored, fine grained altered andesite. Sheared and brecciated						
325.0-339.0	Medium to light colored, brecciated, sheared and cemented altered andesite						

EMERALD MINE

D. D. Hole No. 9 - Continued

<u>Footage</u>	<u>Description</u>	<u>Remarks</u>	<u>Au.</u>	<u>Ag.</u>	<u>Cu.</u>	<u>Pb.</u>	<u>Zn.</u>
339.0-371.0	Dark colored, fine grained, altered andesite						
371.0-385.0	Medium colored, fine grained, altered andesite, sheared and brecciated						
385.0-442.0	Light colored, medium to fine grained, sheared and altered andesite						
442.0-459.0	Medium colored, fine grained, sheared and altered andesite						
459.0-462.0	Light colored, coarse grained, altered andesite						
462.0-478.0	Medium to dark colored, fine grained, sheared and altered andesite						
478.0-506.0	Medium to light colored, fine grained, sheared and altered andesite						
506.0-551.0	Dark colored, fine grained, altered andesite						
512.0-535.0	Medium colored, medium to fine grained, altered andesite						
535.0-573.0	Medium to light colored, fine grained, altered andesite						
573.0-670.0	Medium colored, fine grained, altered andesite						
670.0-672.0	Dark colored, fine grained, altered andesite						
672.0-673.5	Light colored, fine grained altered andesite	665.0-670.0 core chopped					
673.5-713.0	Medium to dark colored, medium to fine grained, altered andesite						
713.0-739.5	Dark colored, medium to fine grained, altered andesite						
739.5-752.0	Medium colored, coarse grained, granular, altered andesite						
752.0-830.0	Dark colored, fine to medium grained, andesite						
830.0-890.0	Dark colored, coarse grained, andesite with traces of iron						
890.0-895.0	Fine grained, light colored andesite						

EMERALD MINE

D. D. Hole No. 9 - Continued

<u>Footage</u>	<u>Description</u>	<u>Remarks</u>	<u>Au.</u>	<u>Ag.</u>	<u>Cu.</u>	<u>Pb.</u>	<u>Zn</u>
895.0-897.5	Dark colored, fine grained, andesite						
897.5-903.5	Light colored, fine to coarse grained, andesite, with small quartz stringers						
903.5-925.0	Coarse grained, dark colored, andesite						
925.0-938.0	Dark colored, fine grained, andesite						
938.0-982.0	Dark colored, fine to coarse grained, Andesite with occasional quartz stringers						

No. 9 D.D. Hole ended at a depth of 982.0 feet

Commenced on Dec. 16th. 1930 and ended on  
January 9th. 1931

Percentage of core recovered was 78.6%

CHANGE ROLL