

RICO COPPER MINES LTD.

Box 3' - 92'

LOG OF HOLE 1.

August 28, 1954.

- 0 - 28 Brownish metamorphosed sediments. Bedding parallel to core, fair amount of pyrite and pyrrhotite.
- 28 - 38 Brownish metamorphosed sediments, Bedding irregular. Pyrite and pyrrhotite.
- 38 - 43.6 Light gray Metamorphosed sediments.
- 43.6 - 62 Brown metamorphosed sediments. Bedding nearly parallel to core.
- 62 - 65 Light gray sediments.
- 65 - 71 Dark gray sediments. Bedding 5 to 20degree dip.
- 71 - 74 Light gray sediments. 20 degree dip.
- 74 - 83 Dark gray sediments.
- 83 - 84 Light gray sediments.
- 84 - 87 Dark gray sediments.
- 87 - 88 Light gray sediments.
- 88 - 90.6 Dark gray sediments, like hornfells, very fine.
- 90.6-100.6 Light gray to white. May be dioritic in places. Much pyrite and pyrrhotite.
- 100.6-133 Gray and brown sediments. Dip 25 - 30 degrees.
- 133 - 141 Brown sediments. Dip 70 degrees.
- 141 - 144.9 quartz with little hornblende and tourmaline.
- 144.9- 151 Brown sediments.
- 151 - 162 Brown sediments.
- 162-167 quartz with some light gray sediments, little chalcopyrite.
- 167 - 181 Brown granular rock, much biotite.
- 181 - 185.6 Brown and gray sediments mixed. Dip 50 degrees.
- 185.6- 186.6 Like conglomerate, much biotitized. Brownish, fine-grained granular muck.
- 186.6 - 198 Biotite.
- 236 Granular biotitized rock, bedding not visible.

RICO COPPER MINES LTD.LOG HOLE 2.

July 27, 1954.

- |           |  |          |
|-----------|--|----------|
| 0 - 34    | 100% silicified and biotitized sediments. Dip 70 degrees. Good recovery, less biotite more white - green sediments.                                | } Box 11 |
| 34 - 44   | Light gray sediments, some biotite. Dip of bedding 85 - 70 degrees.  |          |
| 44 - 69   | Light gray granular sediments, little biotite. Bedding undisturbed. Core 100% and unbroken.  |          |
| 69 - 96   | Coarse granular sediments with fair amount of biotite but light color. Fragmental or conglomeratic, see specimen from 75. Bedding 50 - 60 degrees. |          |
| 96 - 101  | Finer grain, dark gray, still much fine biotite.   |          |
| 101 - 117 | Finer grain, dark gray, still much fine biotite.   |          |
| 117 - 126 | More dense and dark brown. Bedding 85 degrees.   |          |
| 126 - 127 | Coarse spotty with knots of biotite. See specimen 127.   |          |
| 127 - 134 | Brownish biotite sediments with few gray bands.  |          |
| 134 - 136 | Like quartz diorite.   |          |
| 136 - 137 | Biotized sediments.  |          |
| 137 - 140 | Like quartz diorite.   |          |
| 143       | Fine quartz, coarse biotitized sediments, like quartz diorite much brown biotite.  |          |

RICO COPPER MINES LTD.

LOG OF HOLE 4.

August 6, 1954.

- 0 - 33 Brownish metamorphosed sediments, much biotite.
- 33 - 84.5 Same brown sediments, few round pebbles at 80 feet, like metamorphosed conglomerate.
- 84.5- 126 Sediments, brown, cherty from 105 to 126'
- 126 - 164 Brownish sediments, little pyrrhotite at 160'
- 164 - 200 All brownish sediments  
164 - 171 coarse biotite  
171 - 188 fine biotite, little chert  
186 - 187 little pyrite.
- 200 - 212 Fine biotite and cherty sediments.
- 212 - 231 Either a breccia or conglomerate metamorphosed to a brownish cherty rock.
- 231 - 251 Metamorphosed conglomerate or breccia.

RICO COPPER MINES LTD.LOG OF HOLE 5.

July 26, 1954.

- 0 - 35 Silicified and biotitized sediments. Dip 40 - 50 degrees.
- 35 - 74 Silicified and biotitized sediments. Like conglomerate in places.
- 74 - 119 Garnetite + chalcopyrite - little molybdenite  
The mineral is disseminated throughout the section for 45' but is spotty and very low in places.
- 119 - 145 Silicified and biotitized sediments. Bedding nearly 90 degrees
- | Sample | Interval    | Au.  | Ag. | Cu. | Grade        |
|--------|-------------|------|-----|-----|--------------|
| 5      | 75' - 85'   | 0.02 | 0.1 | 0.5 | Fair to good |
|        | 85' - 98'   | Tr.  | 0.2 | 0.4 | Fair only    |
|        | 98' - 105'  | 0.02 | 0.1 | 0.2 | Poor         |
|        | 105' - 115' | Tr.  | 0.1 | 0.3 | Poor         |
- 145 - 183 Silicified sediments and biotitized sediments. Dip about 70 degrees.
- 183 - 199 Same.

END

RICO COPPER MINES LTD.LOG OF HOLE 6.

August 4, 1954.

- 0 - 40 Metamorphosed sediments, much biotite. Bedding poor and irregular. In places looks like metamorphosed conglomerate or agglomerate.
- @ 17' Mud seam
- 40 - 75 Same sediments, more broken from 64 - 75'
- 75 - 115 Same sediments, bedding 10 - 30 degrees  
4' mud seam @ 95'
- 115.6-149.6 Same brown sediments, bedding very irregular.
- 149.6-163 Light colored silicified sediments, much calcite with large hornblende crystals, probably some garnet.
- 163 - 165 Black slate-like rock.
- 165 - 185 Brownish sediments.
- 185 - 195 Brownish sediments.
- 195 - 201 Very light colored sediments.
- 212 Brownish massive sediments - no bedding.

END

RICO COPPER MINES LTD.LOG OF HOLE 7.

August 6, 1954.

0 - 52

- 0 - 17 Brown sediments, much biotite.
- 17 - 37 Conglomerate like, metamorphosed sediments, 4 ft. mud seam  
Mud at 30' at 17'  
All core badly broken.
- 46 - 49 Mostly mud
- 49 - 52 Fair core, brown metamorphosed sediments.
- 52 - 62 Metamorphosed sediments, brownish biotite.  
At 62 much pyrrhotite.
- 62 - 72 Gray to white metamorphosed sediments
- 72 - 74 Gray metamorphosed sediments, rock fissile, 2' missing.
- 74 - 82 Brownish metamorphosed sediments.
- 82 - 83 Dark gray chert
- 83 - 85 dark green sediments, much pyrite and hornblende.  
Tourmaline and calcite.
- 85 - 100.6 Dark gray chert
- 100.6-109 Garnetite.
- 109 - 113 Quartz calcite and tourmaline, actinolite.
- 113 - 123 Garnetite actinolite. Chalcopyrite at 121, 2", not  
enough to sample.
- 123 - 160 Garnetite, tourmaline, quartz pyrite and one speck  
of chalcopyrite.
- 160 - 175 Garnetite.
- 175 - 184 Light gray nearly white sediments, Bedding nearly  
normal to hole.
- 184 - 188 Garnetite
- 188 - 194 Light colored sediments.
- 194 - 203 Mostly garnetite, some chert, One spot chalcopyrite at  
195'.

RICO COPPER MINES LTD.

August 14, 1954.

LOG OF HOLE 8

- 0 - 36 Brownish metamorphosed sediments, bedding about 45 degrees  
little pyrite at 33'
- 36 - 62.6 Brownish sediments, bedding 65 degrees.
- |          |                           | <u>Au.</u> | <u>Ag.</u> | <u>Cu./Ton</u> | <u>Cu. %</u> |
|----------|---------------------------|------------|------------|----------------|--------------|
| 62.6- 75 | Copper ore in Garnetite   |            |            |                |              |
|          | Good sample 8 - 63' - 73' | Tr.        | 1.2        |                | 2.3          |
|          | Poor sample 8 - 75' - 80' | Tr.        | 1.0        |                | 1.9          |
- 75 - 80 Skarn, little garnetite.
- 80 - 105 Brownish sediment, biotite  
@ 105' pronounced fault  
2' of mud
- 105 - 115 Light colored cherty sediments.
- 115 - 149 Light gray silicified sediment, nearly white  
quartzite, little biotite and pyrite.

RICO COPPER MINES LTD.LOG OF HOLE 9.

August 15, 1954.

- 0 - 15 Gray-brown sediments with some biotite  
 at 8' bedding 90 degrees  
 at 10' " 45 "  
 at 15' " 30 "
- 15 - 16.6 Mud seams
- 16.6 - 21 Dark gray slate colored sediments but silicified to chert
- 21 - 23 Mud seam
- 23 - 26 Light gray to white silicified sediment  
 Bedding nearly 0.
- 26 - 37 Dark gray to black silicified sediments + pyrite  
 Bedding 10 degrees to 0 degrees.
- 37 - 38 Light to white silicified sediments.
- 38 - 63 Light gray to white silicified sediments  
 At 39' bedding 10 degrees  
 At 50' " 10 - 15 degrees  
 At 55' " 0 degrees
- 63 - 72 Brownish biotitized sediments  
 Bedding 10 to 20 degrees
- 72 - 100 Brownish biotite sediments  
 Bedding 15 - 20 degrees
- 105.6 Black cherty rock, much broken, no visible bedding.
- 106 - 109 Light gray silicified sediments, much broken
- 109 - 147 Dark brownish metamorphosed sediments  
 At 141' little quartz (6")
- 147 - 179.6 Dark brown metamorphosed sediments, little garnet at 169'
- 179.6 - 217 Dark brown sediments, much pyrrhotite, bedding parallel to hole
- 217 - 256 Dark brown sediments, much pyrrhotite.
- 256 - 293 Dark brown sediments, dip 10 - 15 degrees, much biotite.



RICO COPPER MINES LTD.

LOG OF HOLE 10.

August 29, 1954.

0 - 32	Dark brown sediments, dip 50 degrees, much coarse biotite. Like conglomerate at 22'			
32 - 69	Dark brown sediments.			
69 - 95	Dark brown sediments.			
95 - 136	Garnetite with much chalcopyrite.			
95 - 102.2	Garnetite + chalcopyrite			
sample 10 - 95' - 102.2'	Fair	Au. 0.04	Ag. 0.8	Cu. 1.6
" 10 - 102.2' - 106'	Poor	Tr.	0.2	0.5
" 10 - 106' - 114'	Fair to poor	0.04	0.2	0.4
" 10 - 114' - 121'	7 Good	Tr.	1.4	2.1
" 10 - 121' - 127'	6 Fair	Tr.	0.9	1.6
" 10 - 127' - 136'	9 Good	0.00	2.3	3.9
136 - 140	Light gray silicified sediments.		5.6	7.16
			1.5	2.5

136  
27  
9

RICO COPPER MINES LTD.

September 14, 1954.

LOG OF HOLE 11.

35 - 66	Light gray silicified sediments Bedding indistinct except 63 - 66' here about 45 degrees				
66 - 68	Garnetite and chalcopyrite	<u>Sample 11</u>	<u>Au.</u>	<u>Ag.</u>	<u>Cu. %</u>
		66 - 68	Tr.	Tr.	0.4
68 - 70.6	Garnetite, very little chalcopyrite.				
70.6 - 81.6	Garnetite, some chalcopyrite	<u>Sample 11</u>			
		70.6 - 80.6	Tr.	0.3	0.5
81.6 - 88	quartz, tourmaline no copper				
88 - 94	Much sulphide and copper,	<u>Sample 11</u>			
		88 - 94	Tr.	5.8	3.4



RICO COPPER MINES LTD.

September 12, 1954.

LOG OF HOLE 12. (-30 degrees @ Hole 5)

0 - 44	Brown sediments, much biotite, dip 10-20 degrees			
44 - 78.6	Light gray silicified sediments.			
78.6 - 122	Light gray silicified sediments, few biotite bands and knots.			
122 - 156	Light gray silicified sediments, few bands biotite, Dip up to 40 degrees			
156 - 196	Light to dark gray silicified sediments, some biotite streaks.			
196 - 197	Silicified sediments.			
197 - 197.6	Chalcopyrite and pyrrhotite	<u>Sample 12</u>	<u>Au.</u>	<u>Ag.</u>
				<u>Cu. %</u>
		197 - 197.6	Tr.	0.8
				1.9
197.6 - 205.6	Silicified sediments, Much biotite			
205.6 - 208.2	Solid sulphide, mainly pyrite with some Chalcopyrite and arsenopyrite	<u>Sample 12</u>		
		205.6 - 208.2	Tr.1.2	0.2
208.2 - 222	Brown metamorphosed sediments, much biotite, no garnetite in this hole.			



October 18, 1954.

RICO COPPER MINES LTD.

LOG OF D.D. HOLE 13

- 0 - 11 Brownish biotite sediments, pronounced bedding 50 degrees. Scattered elongated pebbles.
- 11 - 13 White silicified sediment with some white mica and few grains of arsenopyrite.
- 13 - 44 Light gray to dark gray silicified sediments. Bedding less distinct.
- 44 - 67 Garnetite with one foot section of tourmaline and quartz at 62'
- |                   | <u>Au.</u> | <u>Ag.</u> | <u>Cu.</u> |
|-------------------|------------|------------|------------|
| Sample 13 53'-60' | -          | -          | 1.1%       |
| 13 63'-67'        | Tr.        | 0.5 oz.    | 1.2%       |
| 13 68'-68.3'      | -          | -          | 0.9%       |
- 67 - 104 Garnetite + tourmaline and quartz
- |                   |     |     |      |
|-------------------|-----|-----|------|
| Sample 13 77'-79' | Tr. | Tr. | 0.3% |
|-------------------|-----|-----|------|
- 104 - 118 Silicified sediments, bedding 85 degrees. No mineralization.

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HOLE 14

Nov. 2 , 1954.

Station 3 Flat  
Right Angles to  
Tunnel.

- 0 - 42 Silicified light gray sediments.
- 42 - 76 Garnet & quartz. 3' lost between 70 - 75  
Very little metallic mineral, hardly visible.
- 96 - 117 Garnetite with few quartz crystals.
- 117 - 153 Garnetite and quartz crystals.  
Mud 147 - 148
- 153 - 159 Garnetite and quartz.
- 159 - 162 Biotitized brownish sediments  
2' lost.
- 162 - 185 Biotitized sediments 2' lost.
- 185 - 187 Granite dyke
- 187 - 195 Biotitized brownish sediments.
- 195 - 236 Light gray and brown metamorphosed sediments.  
Fragmented
- 236 - 241 Fine grained granodiorite.

No Ore.

HOLE 15

- 0 - 36 Uniform metamorphosed sediments.
- 36 - 70 Biotized and silicified sediments,  
Brown and white  
Dip 0 - 15
- 70 - 96 Brown biotitized sediments, little pyrite.
- 96 - 103 Pale gray irregular grained quartz diorite.
- 103 - 108 " " " " " "
- 108 - 136 Brown & white biotitized sediments,  
Probably fragmental.
- 139 - 171 Coarse biotitized and silicified fragmental  
rock, brown and white.
- 175 - 181 Intensely silicified sediments.  
Light color Dip 10 - 15 degrees.
- 181 - 185 Garnetite - no mineral
- 185 - 197 Mineralized garnetite, much pyrrhotite.
- 197 - 214 Silicified and biotitized sediments, dip 15 degrees.

END

Sample 15 - 185 - 187

<u>Au.</u>	<u>Ag.</u>	<u>Cu.</u>
.04	.9	2.2

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Jan. 2, 1955.

HOLE 16

- 0 - 21 Brown biotitized sediment.
- 21 - 33 Gray sediments, dip 90 degrees to core.
- 33 - 70 Garnetite, little pyrrhotite at 70'
- 70 - 90 Garnetite.
- 90 - 92 Quartz and hornblende, tourmaline
- 92 - 97 Garnetite.
- 97 - 98 Quartz, much pyrrhotite.
- 98 - 113 Garnetite, quartz at 106
- 137 Garnetite.
- 148 Gray metamorphosed sediments,  
Little chalcopyrite @ 141,  
Dip 90 degrees.
- 148 - 170 Gray and brown metamorphosed sediments.  
Dip 90 degrees.

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HOLE 17

Jan. 2, 1955.

- 30 degrees under 16

0 - 24	Brown biotitized sediments, Dip 40 45 degrees.
24 - 33	Light gray silicified sediments.
33 - 50	Light gray silicified sediments.
50 - 62	Garnetite
62 - 67	Quartz diorite.
67 - 102	Garnetite, pyrrhotite and little chalcopyrite at 102.
109 - 147	Garnetite.
147 - 167	Garnetite.

This hole should have been  
drilled farther.



Rico Copper Mines Ltd.

Jan. 2, 1955.

HOLE 18

50 degrees right of tunnel - 0

0 - 2	Garnetite.
2 - 5	Quartz diorite.
5 - 7	Brown sediments, dip 70 degrees.
7 - 36	Garnetite.
36 - 74	"
74 - 108	"
108 - 121	"
121 - 132	Silicified and biotitized sediments Dip 80 - 90 degrees.

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Dec. 12, 1954.  
Station 3 - 50 degrees  
right from tunnel.

HOLE 19

- 0 - 32 Garnetite, much hornblende, little  
chalcopyrite @ 10' and at 22'
- 32 - 67 Garnetite, little quartz and hornblende.
- 67 - 101 Garnetite, tourmaline, quartz,
- 82 - 84 Silicified sediment, gray, bedding 30 degrees,  
at 75' 5" of fair ore  
" 84.6 2" of fair ore  
89-90 11" of fair ore.
- 101 - 139 Altered sediments with much quartz and pegmatite,  
little oxidation on fractures and at  
119 green copper stain.
- 139 - 141 Mud, probably fault gouge.
- 141 - 176 Silicified sediments, badly broken and  
very rusty near surface.

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HOLE 20

Dec. 12, 1954.

0 - 27	Garnetite, few specks chalcopyrite at 9' pyrite and pyrrhotite at 27 - 28.			
27 - 34	Mostly hornblende and quartz			
34 - 50	Garnetite, much hornblende			
		<u>Au.</u>	<u>Ag.</u>	<u>Cu.</u>
	Sample 50 - 51	Tr.	0.2	0.5
51.5- 59	Sample 51.5 - 59	Tr.	0.9	1.0
59 - 67	Light gray rock, some garnet, no chalcopyrite.			
67 - 104	Garnetite, much quartz and hornblende			
	103.5 - 104 good chalcopyrite			
	81 - 82 Mud			
105.8 - 118	Garnetite, 105 -105.8 Sample	.04	4.4	11.9
118 - 119	High grade chalcopyrite. Sample	.04	1.2	2.9
119 - 134	Garnetite, rusty, much pyrite.			
134 - 146	Quartz and hornblende.			
146 - 170	Very bad drilling ground, much faulting mostly dark and very light sediments.			
170 - 180	Nearly solid chalcopyrite			
180 - 185	Fault group, some ore			
	170 - 180 Sample	.08	16.0	15.8

Rico Copper Mines Ltd.

Jan. 2, 1955.

HOLE 21

+ 75

- 0 - 6 Silicified sediment.
- 6 - 9 " " , fine chalcopyrite.
- Sample 21 - 16 - 9 Au. Ag. Cu.  
Tr. 0.8 1.9
- 9 - 16 Fine silicified sediment.
- 16 - 21 Garnetite.
- 21 - 34 Silicified and biotitized sediments.
- 34 - 65 Fine silicified sediments. Dip parallel to core. Chalcopyrite at 35', 40', 46'
- 43 - 44 Fine chalcopyrite in fine silicified sediments. Sample 21 - 43 - 44 Tr. 0.4 0.9
- 65 - 100 Light gray silicified sediments,
- 84 - 85 Veinlet of metal 1/16 inch wide like native bismuth (determined as bismuth) about 1 foot long. Bedding parallel to core.
- 100 - 132 Light gray silicified sediments, dip parallel to core.
- 132 - 141 Light gray silicified sediment.
- 141 - 150 Dark gray and brown metamorphosed sediments, looks fragmental.
- 150 - 165 Light gray silicified sediments.
- 165 - 176 Light gray silicified sediments, little biotite
- 176 - 189 Dark brown biotitized sediments.
- 186 - 200 Light gray sediments, streaks of biotite. Dip parallel to core.
- 200 - 231 Biotitized fragmental rock.
-

HOLE 22

0 - 18	Garnetite			
18 - 22	Highly altered diorite.			
22 - 34	Garnetite with patches of silicified sediments.			
34 - 67	Garnetite			
35 - 37	small mineral content, hardly worth sampling			
	Sample 22 - 47 - 49	Tr.	0.5	1.2
	22 - 50 - 55	Tr.	Tr.	0.3
	22 - 55 - 57.9	Tr.	Tr.	0.1
67 - 101	Garnetite			
	Sample 22 - 76 - 82	Tr.	0.5	0.4
	22 - 86 - 89	Tr.	0.2	0.4
	22 - 96 - 97	Tr.	0.7	1.1
101 - 112	Garnetite, quartz and hornblende			
112 - 116.5	Sample 22 - 112 - 116.5	Tr.	0.6	Tr.
112 - 134	Garnetite, little chalcopyrite			
	Sample 22 - 122 - 124	Tr.	0.6	1.4
	22 - 126 - 127	Tr.	0.6	1.3
	22 - 130 - 133	0.02	0.2	0.6
134 - 138	Garnetite, much quartz and sericite.			
	Sample 22 - 137.5 - 145	Tr.	0.2	0.9
149	Rusty silicified sediments 1" of chalcopyrite at 147.5			
149 - 157	Silicified sediments.			
157 - 172	Quartz			
172 - 190	Silicified sediments, little ore at 172.3, galena, zinc, copper.			
190 - 194	Only 2' of core fragments, Sample 22 - 190 - 194	Tr.	6.8	8.7

HOLE 23

0 - 15	Garnetite.			
19 - 32	Quartz hornblende, etc. pyrrhotite & pyrite			
32 - 45.6	Garnetite, hornblende			
45.6- 55.6	Quartz hornblende & chalcopyrite, Sample 23 - 45.6 - 55.6	<u>Au.</u> 0.01	<u>Ag.</u> 0.5	<u>Cu.</u> 0.9
55.6- 67	Garnetite			
67 - 70	Garnetite, little ore at 86.7			
70 - 79	Garnetite - much hornblende with ore Sample 23 - 73 - 79	0.01	0.2	0.6
79 - 100	Sample 23 - 90 - 93 Garnetite Chalcopyrite at 96.8	Tr.	1.7	3.5
100-- 114	Garnetite, little chalcopyrite at 100-103, 104-107, 112-114.			
114 - 125	Quartz and silicified sediments.			
125 - 189	Silicified sediments, much broken and rusty, much core missing.			
167 - 170	Much pyrite, few flakes of molybdenum.			

Rico Copper Mines Ltd.

Dec. 25, 1954.

HOLE 24

0 - 10	Garnetite			
10 - 15	Mineralized quartzite. Sample 24 - 10 - 15	<u>Au.</u> 0.02	<u>Ag.</u> 0.7	<u>Cu.</u> 1.7
15 - 26	Garnetite			
26 - 34.6	Diorite (quartz)			
34.6 - 49	Garnetite, No mineral.			

*Deepened later and called #25*

Rico Copper Mines Ltd.

Dec. 25, 1954.

HOLE 24

0 - 10	Garnetite
10 - 15	Mineralized quartzite. Sample 24 - 10 - 15
15 - 26	Garnetite
26 - 34.6	Diorite (quartz)
34.6 - 49	Garnetite, No mineral.

Au.	Ag.	Cu.
0.02	0.7	1.7



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RICO COPPER MINES LTD.

LOG OF HOLE A.

November 1, 1954.

- 0 - 38 Light gray to white silicified sediments, little  
biotite in narrow band at 9'.  
Bedding 50 degrees to hole.  
At 33' bedding 60 degrees.
- 38 - 63 Light gray silicified sediments at 60'  
Bedding 70 degrees



RICO CO PER MINES LTD.LOG OF HOLE B

September 1, 1954.

- 0 - 31 Good garnetite, much tourmaline and quartz at 25'  
Bedding 90 degrees.
- 31 - 42 Light gray sediments  
@ 33' Bedding 60 degrees.  
@ 37' " 45 "
- 42 - 47 Brown sediment, much biotite and pyrite  
@ 47' bedding 70 degrees
- 47 - 51 Dark gray sediments, little quartz.
- 51 - 59 Granular rock, like quartz diorite but much biotite.

END



RICO COPPER MINES LTD.

(S 52 degrees E)  
September 12, 1954.

LOG OF HOLE "C"

- 0 - 36 Garnetite with quartz and tourmaline,  
little chalcopyrite at 28 and at 34.  
Would not assay  $\frac{1}{2}\%$
- 36 - 63 Garnetite, tourmaline quartz,  
little chalcopyrite at 38.6, 40.6, 52.



RICO COPPER MINES LTD.

LOG OF HOLE "D"

September 12, 1954.

- 0 - 34 Light and dark gray silicified sediments.  
34 - 44 Silicified sediments, little pyrite at 38.

END OF HOLE



154  
139  
49  
154  
115  
59  
112  
773

# DIAMOND DRILL LOG

 Location Rico Copper, Lucky Four #4

 Hole No. 41

 Date Collared 15 Sept/71 Latitude 7655

 Bearing 202°35'

 Logged by M. K. Lorimer

 Sheet No. 1 of 1

 Date Completed 21 Sept/71 Departure 5223

 Dip -45°

 Date 17-21 Sept/71

 Core Size AX Elevation 6181

 Length 110

 Purpose of Hole Intersect ore zone

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	FEET	% Au	% Ag	% Cu
0	11	GREYWACKE: Bedding 30-40 degrees to core							
11	12	QTZ VEIN: 60 degrees to core							
12	22	GREYWACKE CALCITE VEINLETS							
22	24	DECOMPOSED GRANITIC DYKE WITH MoS <sub>2</sub>							
24	67	GREYWACKE: Becoming increasingly silicic with depth. Minor pyrite disseminations and fracture fillings.							
67	70	GARNETITE: Well mineralized with chalcopyrite	32536	67	71	4	Tr	0.1	0.57
70	72	GREYWACKE: Chalcopyrite disseminations & fracture filling. Patches of tourmaline	37	71	76	5	Tr	0.1	0.66
72	81	MAINLY GARNETITE, FREQUENTLY SILICIFIED: Some calcite veinlets. Well mineralized with chalcopyrite & pyrrhotite, disseminated and massive. Magnetic.	38	76	81	5	0.01	1.2	3.06
81	83	MAINLY QUARTZ WITH BLEBS OF CHALCOPYRITE	39	81	83	2	Tr	Tr	0.50
83	91	Altered sediments with frequent patches of garnetite and coarse-grained dark green rock containing much calcite. Generally well mineralized but patchy with chalcopyrite and pyrrhotite, the latter magnetic	40	83	87	4	0.01	0.3	1.40
			41	87	91	4	Tr	0.1	0.57
91	101	GREYWACKE WITH MINOR GARNETITE: Weakly mineralized							
101	110	GREYWACKE WITH FREQUENT LIMONITE BANDS							
			AVERAGES:						
		E.O.H							
				67	91	24	Tr	0.4	1.26
				76	87	11	0.01	0.8	2.03

# DIAMOND DRILL LOG

 Location Rico Copper Lucky Four #4

 Hole No. 42

 Date Collared 22 Sept/71 Latitude 7653

 Bearing 175°35'

 Logged by M. K. Lorimer

 Sheet No. 1 of 2

 Date Completed 4 Oct/71 Departure 5225

 Dip -60°

 Date 25 Sept - 9 Oct/71

 Core Size AX Elevation 6181

 Length 165

 Purpose of Hole Intersect ore zone below #41

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	FEET	Bk Au	Zn Ag	Cu
0	3	GREYWACKE							
3	4	GREYWACKE, BROKEN & OXIDIZED							
4	21	GREYWACKE WITH FREQUENT BIOTITE							
21	22	ARGILLITE							
22	24	QUARTZ VEIN: Disseminated chalcopyrite & MoS <sub>2</sub> . 50% core loss.							
24	31	ARGILLACEOUS GREYWACKE							
31	41	GREYWACK WITH PROMINENT PURPLE BANDING							
41	56	ARGILLACEOUS GREYWACKE: Becoming silicic near 56							
56	61	SKARN ZONE: Mineralize with chalcopyrite & Pyrrhotite. Magnetic.	32542	56	61	5	0.01	0.6	1.44
61	66	QUARTZITE: Comparatively barren. Some chalcopyrite & MoS <sub>2</sub>	43	61	66	5	Tr	Tr	0.10
66	67	ALMOST SOLID CHALCOPYRITE AND PYRRHOTITE.	44	66	71	5	0.01	1.58	3.36
67	111	GARNETITE SKARN ZONE: Well mineralized with chalcopyrite and pyrrhotite. Mineralization patchy. Occasional patches of coarse garnet and/or quartz crystals.	45	71	76	5	Tr	0.1	0.90
		8" quartz @ 87 .	46	76	81	5	0.01	0.78	1.64
			47	81	86	5	Tr	0.1	0.46
111	123	MAINLY GREYWACKE: With occasional blebs chalco and pyrrhotite	48	86	91	5	Tr	0.1	0.80
			49	91	96	5	Tr	0.3	0.86
123	125	COARSE GRAINED WITH MUCH TOURMALINE	50	96	101	5	0.01	0.59	1.15
125	136	GREYWACKE: With frequent chalcopyrite and pyrrhotite	79	101	106	5	0.01	0.4	0.99
136	140	MAINLY QUARTZ: Some calcite, Muscovite 139-140. 2" solid sulphides @ 137 but otherwise comparatively barren.	80	106	111	5	Tr	0.1	0.60
140	150	SILICCOUS, ALTERED SEDIMENTARIES: Considerable calcite. Scattered chalcopyrite and pyrrhitite. 2" tourmaline @ 150.							



