DRILL LOG

Hole No.: E-64-1
Location: 63.87 S + 4.3 E
Crawford Pond
Ice Grid
Coordinates

Angle: -42°
Bearing: N. 72° W.
Depth: 550'
Elevation: 120' (water level +10)
Logged by: D. E. Wyke
6/10/61 to 6/30/61

Drill Hole Data:

0' 0"	- 50' 0"	Overburden
50' 0"	- 52' 0"	BX Core
52' 0"	- 550' 0"	AX Core

Depth	Lithology
0' 0" - 50' 0"	Overburden (sand and boulders).
50' 0" - 54' 0"	Schist: quartz, biotite-rich; poor schistosity.
54' 0" - 60' 0"	Pegmatite: quartz, biotite; 55' 8" - 55' 11" inclusion of altered pyroxene containing no sulfides; 58' - 60' biotite-rich.
60' 0" - 69' 7"	Schist: quartz, biotite-rich; strongly pegmatized lower 29"; 60' 6" - 61' 2" quartz-biotite pegmatite.
69' 7" 102' 10"	Pegmatite: quartz, muscovite; minor biotite; 101' 4" - 101' 8" inclusion of quartz-biotite schist.
102' 10" - 109' 6"	Schist: quartz, biotite-rich; poor schistosity; calcite in fractures.
109' 6" - 115' 6"	Marble and Dolomite: 115' 6" - 137' 3" white marble; 137' 3" - 155' 0" dolomite; 155' 0" - 157' 10" Grey altered dolomite; 157' 10" - 158' 0" quartz vein.

Depth	Lithology
158' 0" - 173' 10"	Schist: quartz, biotite; minor chlorite; strong pegmatization; minor garnet in bands; schistosity angle 70° to core axis; 164'7" - 165' 3" quartz vein.
173' 10" - 181' 3"	Schist: quartz, biotite-rich, hornblende; banded garnet; schistosity angle 80° to core axis.
181' 3" - 182' 10"	Schist: quartz, biotite; schistosity angle 70° to core axis.
182' 10" - 187' 2"	Schist: quartz, biotite, hornblende; banded garnet; 185' 5" - 187' 2" garnet-rich in pegmatized zone.
187' 2" - 205' 7"	Schist: quartz, hornblende; minor biotite and garnet; calcite in fractures; 193'6" - 193' 11" biotite-rich zone with 1/2" quartz vein; 1/8" pyrrhotite vein cutting core at 40° to axis; minor pyrrhotite disseminated; pyrite on fracture surface; 203' 7" - 204' 3" quartz-biotite-muscovite pegmatite with minor pyrite.
205' 7" - 208' 11"	Pegmatite: quartz, muscovite; minor biotite; 208' 2" - 208' 11" garnet-rich.
208' 11" - 217' 2"	Schist: quartz, biotite, chlorite; minor disseminated garnet; strong pegmatization.
217' 2" - 218' 4"	Pegmatite: quartz, biotite, muscovite.
218' 4" - 297' 7"	Schist: quartz, biotite, chlorite, garnet; minor graphite with associated pyrite; pyrite in veinlets, disseminated; schistosity angle generally 60° to 80° to core axis, below 280' angle is 70°.
297' 7" - 300' 0"	Schist: quartz, biotite; minor hornblende; schistosity poor.

Depth	Lithology
300' 0" - 301' 4"	Schist; quartz, biotite, chlorite, garnet; minor graphite and pyrite; top of section shows ground water present.
301' 4" - 302' 1"	Schist: quartz, biotite; schistosity poor.
302' 1" - 312' 0"	Schist; soft chlorite; 302' 2" - 309' 0" fissure with mud and sand; 309'0" - 312'0" soft mica schist with poor core recovery, broken
312' 0" - 314' 6"	Schist: quartz, biotite, chlorite; very soft; schistosity angle 70° to core axis.
314' 6" - 316' 0"	Pegmatite: quartz, muscovite.
316' 0" - 327' 2"	Schist: quartz, biotite, hornblende; 324' 6" - 326' 2" gabbro or diorite, barren.
327' 2" - 338' 5"	Schist: quartz, chlorite, minor biotite, minor graphite; pyrite to 2%; 335' 6" - 337' 0" graphite to 5%; 337' 0" - 338' 5" highly altered by pegmatite.
338' 5" - 358' 8"	Pegmatite: quartz, biotite; minor disseminated garnet; 338' 5" - 338' 10" as above; 338' 10" - 341' 4" fine grained, dark grey to black hornblende schist, abundant biotite, minor quartz; 341' 4" - 341' 5" quartz vein; 341' 5" - 342' 6" massive pyrrhotite; 342' 6" - 343' 4" semi-massive pyrrhotite in quartz-garnet-biotite pegmatite; 343' 4" - 344' 6" biotite-rich zone with chlorite and biotite containing 10% to 15% pyrrhotite and 5% copper; 344' 6" - 345' 0" massive pyrrhotite; 345' 0" - 345' 3" 5% to 10% pyrrhotite and copper in quartz-biotite-garnet pegmatite; 345' 3" - 351' 4" quartz dominant with minor biotite, two 1/8" veinlets pyrite cutting across core axis at 30°, garnetiferous from 346' 3"-346' 6";

Depth	Lithology
	351'4" - 351' 5" fine-grained black hornblende-biotite schist; 351' 5" - 351' 6" massive pyrrhotite; 351' 6" - 351' 10" biotite schist with minor hornblende; 351' 10" - 354' 0" massive pyrrhotite with high copper content; 354' 0" - 354' 11" pegmatite with quartz, biotite and minor disseminated pyrrhotite; 354' 11" - 357' 3" quartz-biotite-chlorite schist with minor garnet; pyrrhotite to 2%; schistosity angle variable but approximately 75° to core axis (probably an inclusion); lower 2" zone 25% pyrrhotite; 357' 3" - 358' 8" massive pyrrhotite with high copper content.
358' 8" - 367' 6"	Schist: quartz, biotite; minor chlorite and garnet; schistosity angle 70° to 90° variable to core axis; very minor pyrrhotite.
367' 6" - 372' 0"	Schist: quartz, hornblende, chlorite; very minor pyrrhotite; schistosity angle 50° to core axis.
372' 0" - 376' 0"	Schist: quartz, hornblende; fine-grained; 372' 0" - 372' 5" quartz vein; 375' 0" - 376' 0" quartz vein with inclusion of hornblende schist.
376' 0" - 379' 7"	Schist; garnet; quartz, biotite, chlorite present.
379' 7" - 385' 4"	Schist: quartz, biotite-rich; strongly pegmatized; schistosity angle 60° to core axis
385' 4" - 394' 0"	Schist: quartz, hornblende; minor calcite in thin fractures; biotite-rich on either side of narrow quartz veins; increase in biotite lower 12".
394' 0" - 396' 5"	Pegmatite: quartz, biotite.

Depth	Lithology
396' 5" - 397' 5"	Schist: quartz, biotite; very minor hornblende.
397' 5" - 400' 0"	Pegmatite: quartz dominant; minor muscovite and biotite.
400' 0" - 409' 11"	Schist: quartz, biotite; fine-grained; resembles quartzite.
409' 11" - 421' 3"	Schist: quartz, biotite; top 3' of section pegmatized; biotite-rich; chloritic.
421' 3" - 435' 4"	Schist: quartz, biotite, hornblende; fine-grained; quartz-biotite pegmatite and quartz veins parallel to core axis; minor pyrrhotite crystals at border of pegmatite and schist.
435' 4" - 449' 10"	Pegmatite: quartz, muscovite; minor biotite; rare crystal of pyrrhotite.
449' 10" - 452' 5"	Schist: quartz, biotite; strong pegmatization.
452' 5" - 457' 2"	Pegmatite: quartz, muscovite; minor biotite.
457' 2" - 463' 1"	Schist: quartz, biotite; strong pegmatization.
463' 1" - 465' 8"	Pegmatite: quartz, muscovite; minor biotite.
465' 8" - 491' 0"	Schist; quartz, biotite; strong pegmatization; some 4" to 8" quartz-biotite pegmatite veins.
491' 0"-502' 3"	Pegmatite: quartz, muscovite, biotite; minor tourmaline.
502' 3" - 507' 6"	Schist; quartz, biotite; strong pegmatization.
507' 6" - 513' 0"	Pegmatite: quartz, biotite, muscovite.
513' 0" - 527' 9"	Schist: quartz, biotite; strong pegmatization; schistosity angle 80°.

Depth	Lithology
527' 9" - 530' 3"	Schist: quartz, biotite; minor hornblende and chlorite; schistosity angle 80°.
530' 3" - 550' 0"	Schist: quartz, biotite; few inclusions quartz-biotite schist with hornblende.

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Total Depth 550'0"

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ASSAYS:

E-64-1-1 341' 4" - 345' 3"
E-64-1-2 351' 5" - 354' 0"
E-64-1-3 357' 0" - 358' 8"