DRILL LOG

Hole No. :	E-64-2	Angle:	-60°
Location:	63.87 S. + 4.30 E. Crawford Pond Ice Grid Coordinates	Bearing:	N. 72° W.
		Depth:	T.D.A. 157' 7" (7-31-61) T.D. 399' 6"
		Elevation:	120' above sea level
		Logged by:	D. E. Wyke 7-19-61 to 8-9-61

Drill Hole Data:

0' 0"	-28' 0"	BX casing left in hole by request also 2' out of hole...total 30' BX casing.
0' 0"	-25' 10"	Overburden, no core
25' 10"	-28' 0"	BX core
28' 0"	-399' 6"	BX Wireline core.

Depth		Lithology
0' 0"	-25' 10"	Soil and sand.
25' 10"	-26' 6"	Pegmatite: quartz, muscovite; minor biotite.
26' 6"	-27' 11"	Schist: quartz, biotite; fine-grained; dark grey color, possibly hornblende; narrow irregular veinlet of chlorite and pyroxene containing very minor pyrrhotite giving positive Ni test; minor effervescence indicates presence of carbonate.
27' 11"	-139' 4"	Pegmatite: dominantly quartz; muscovite and minor biotite present; abundant large feldspar crystals, some basic; narrow carbonaceous zones containing serpentine; below 100' calcite in fractures; 28' 7" - 29' 11" inclusion quartz-biotite schist; 29' 11" - 30' 4" pegmatized marble or dolomite; 34' 8" - 35' 6" pegmatized marble or dolomite;

Depth	Lithology
	41' 8" - 42' 2" inclusion quartz-biotite schist; 44' 2" - 44' 7" inclusion quartz- biotite schist, probable hornblende; 47' 7" - 48' 0" quartz-biotite-chlorite schist inclusion; 48' 4" - 48' 9" fine-grained quartz-biotite schist, dark grey, probable hornblende; 48' 9" - 52' 6" as above but veined with quartz parallel to core axis; 112' 6" - 129' 0" increase in biotite.
139' 4" - 157' 7"	Marble: generally white; 147' 4" - 148' 7" serpentenitic; 155' 0" - 157' 0 dolomitic.

Total depth attained July 31, 1961.

157' 7" - 158' 6"	Pegmatite: quartz dominant; abundant feldspar, some basic feldspar; fractured; calcite in fractures.
158' 6" - 160' 2"	Schist: abundant quartz-biotite; calcite in fractures.
160' 2" - 165' 2"	Pegmatite: quartz dominant; muscovite present; some basic feldspar.
165' 2" - 167' 0"	Schist; biotite; fine-grained; brobable hornblende present; narrow veins of quartz; calcite in fractures; schistosity 80° to core axis.
167' 0" - 178' 1"	Pegmatite: quartz, muscovite; minor garnet; 177' 5" - 178' 1" inclusion quartz-biotite-chlorite schist; narrow quartz veins; disseminated garnet; schistosity angle 50°.
179' 5" - 192' 6"	Schist: quartz, biotite, chlorite; narrow quartz veins; disseminated garnet; 192' 0" - 192' 6" increase in biotite; schistosity angle 50° to core axis.

Depth	Lithology
192' 6" - 196' 1"	Schist: garnet; fine bands of biotite; possible hornblende; thin quartz veins; schistosity angle 60° to core axis.
196' 1" - 200' 2"	Schist: quartz, biotite chlorite, garnet; probable hornblende; calcite in fractures; 199' 8" - 200' 2" increase in biotite and hornblende.
200' 2" - 204' 7"	Pegmatite: quartz dominant; muscovite; biotite lower 18".
204' 7" - 207' 7"	Schist: hornblende; possible altered diorite; biotite-rich upper and lower 2"; fine-grained; thin quartz veins; calcite in fractures.
207' 7" - 210' 1"	Pegmatite: quartz, biotite, muscovite.
210' 1" - 228' 3"	Norite: altered; fine-grained; basic feldspar, pyroxene; minor chlorite and biotite; calcite in fractures; calcareous; 210' 1" - 214' 6" strong pegmatization; 228' 0" - 228' 3" quartz veins.
228' 3" - 229' 5"	Schist: fine-grained; hornblende; biotite; calcareous; fine bands of garnet.
229' 5" - 231' 1"	Schist: garnet; bands of quartz; calcite on fractures.
231' 1" - 268' 5"	Schist: quartz, muscovite, biotite, chlorite; garnet disseminated; 2" to 8" quartz veins; 231' 1" - 232' 6" quartz-muscovite pegmatite; 237'6" - 238' 0" Garnet schist; schistosity angle generally 70° to 80°.

Depth	Lithology
268' 5" - 275' 4"	Schist: quartz, biotite, chlorite; disseminated garnet; garnet also in thin bands; increase in biotite over above section; graphite present in minor amount; serpentine parallel to foliction; 272' 6" - 275' 4" core broken and more graphitic.
275' 4" - 278' 6"	Pegmatite: quartz, muscovite; minor biotite.
278' 6" - 290' 4"	Schist: quartz, muscovite; minor biotite; probably a pegmatized schist; increase in biotite from 288' 0".
290' 4" - 302' 8"	Schist: quartz, biotite, chlorite; disseminated garnet; braphite present; schistosity angle generally 60° to 80°; minor disseminated pyrrhotite parallel to foliation.
302' 8" - 317' 4"	Pegmatite: quartz, muscovite; minor garnet.
317' 4" - 322' 0"	Schist: quartz, biotite, chlorite; graphite; pyrite associated with graphite; increase in biotite below 320' 0"; 321' 9" - 321' 10" vein quartz-biotite pegmatite; 321' 10" - 322' 0" biotite schist.
322' 0" - 327' 10"	Massive pyrrhotite: garnet 1%; 3% other minerals identified as biotite and serpentine; occassional quartz; high copper content; section not determined to be basic with hand lens.
327' 10" - 332' 3"	Schist: quartz, biotite, chlorite; disseminated garnet; top 2" contains 20% pyrrhotite and copper.
332' 3" - 335' 4"	Pegmatite: quartz, biotite.

Depth	Lithology
335' 4" - 369' 5"	Schist: quartz, biotite, chlorite; minor graphite; strongly pegmatized to 357'; schistosity angle 70° to 90°.
369' 5" - 372' 2"	Pegmatite: quartz, muscovite; minor biotite; minor garnet.
372' 2" - 376' 6"	Schist: quartz, biotite, chlorite; disseminated garnet; very minor graphite.
376' 6" - 377' 10"	Schist: quartz, biotite; disseminated garnet; abundant basic feldspar; minor pyroxene; very minor pyrrhotite.
377' 10' - 378' 2"	Schist: garnet, biotite; chlorite and pyroxene in minor amount; 2% disseminated pyrrhotite; quartz present.
378' 2" 379' 10"	Schist: garnet, quartz; occassional radiating crystal, probable anthophylite; very minor pyrrhotite.
379' 10" - 381' 1"	Pegmatite: quartz, biotite; minor muscovite; abundant basic feldspar.
381' 1" - 384' 11"	Altered basic: chlorite, pyroxene, biotite-rich; pyrrhotite -1%; quartz representing thin irregular veins; fine-grained; dark-green color; lower 14" gradation to quartz-biotite schist; top 3" has disseminated garnet.
384' 11" - 388' 11"	Pegmatite: quartz, muscovite; minor biotite; very minor pyrrhotite associated with biotite crystals; 387' 5" - 388' 0" quartz-biotite-chlorite schist. 388' 0" - 388' 5" quartz-biotite schist; 388' 5" - 388' 11" quartz-biotite pegmatite.

Depth	Lithology
388' 11" - 389' 6"	Pegmatized basic: fine-grained; hornblend or augite, pyroxene, chlorite.
389' 6" - 399' 6"	Schist: hornblend or augite; pyroxene minor; streaked with fine quartz veins; biotite present.

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Total Depth 399' 6"

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ASSAY: E-64-2-1 322' 0" - 328' 0"