DRILL LOG

Hole No.:	E-55-3	Angle:	-77°
Location:	54.9 S + 5.65 E Crawford Pond Ice Grid - Coordinates	Bearing:	N 72° W
		Depth:	461'0"
		Elevation:	120' above sea level
		Logged by:	D. E. Wyke October 15 to 31, 1961

Drill Hole Data:

0' 0" - 10' 0"	AX casing, left in hole by request.
0' 0" - 8' 0"	Overburden, no core.
8' 0" - 10' 0"	BX core.
10' 0" - 461' 0"	AX core.

Depth	Lithology
0' 0" - 8' 0"	Overburden.
8' 0" - 16' 5"	Pegmatite: quartz, biotite; narrow bands of quartz-biotite schist; some limey schist.
16' 5" - 21' 9"	Marble: micaceous; lower 18" limey.
21' 9" - 28' 10"	Limey schist: calcite and biotite; 28'10" - 29'7" pegmatite vein.
28'10" - 79' 2"	Schist: quartz, biotite; minor chlorite; strong pegmatization; schistosity angle variable.
79' 2" - 96' 0"	Pegmatite: quartz, biotite; 79'2" - 79'8" quartz vein; 79'8" - 80'4" mica schist; 88'3" - 94'4" biotite-rich gabbroic inclusions.
96' 0" - 109'1"	Schist: quartz, biotite; some narrow veins of quartz; schistosity: 96' angle 60°; 100' angle 60°; 104' angle 55°; 110' angle 50°.
109' 1" - 110' 2"	Schist: biotite; minor quartz.
110' 2" - 111' 3"	Schist: quartz, biotite.
111' 3" - 112' 9"	Pegmatite: quartz, biotite.
112' 9" - 113' 6"	Dolomite: generally biotite-rich.
113' 6" - 119' 2"	Pegmatite: quartz, biotite; inclusions of altered hornblend and biotite schist at: 116'2" - 116'9" 117'5" - 117'10" 118'4" - 118'8".

Depth	Lithology
119' 2" - 121' 9"	Schist: hornblend, biotite; 120'1" - 120'5" quartz vein.
121' 9" - 125' 4"	Pegmatite: quartz, biotite; 124'0" - 125' 4" quartz-biotite schist.
125' 4" - 139' 6"	Limey schist: calcite and mica; 125'4" - 125'10" limey biotite schist; 125'10"- 127' 3" marble; 127'3" - 139'6" limey schist; schistosity angle at 135' is 50°.
139' 6" - 153' 0"	Schist: quartz, biotite; calcite veins; 143'4" - 144'2" quartz vein; schistosity angles: 145' angle 55°; 148' angle 50°; 155' angle 50°.
153' 0" - 155' 4"	Limey schist.
155' 4" - 166' 4"	Marble: micaceous; 165'0" - 166'4" band of biotite and serpentine with calcite veins.
166' 4" - 190' 6"	Marble: highly altered; chlorite, calcite, disseminated garnet; micaceous; 1% graphite; 187'0" - 187'5" dolomite.
190' 6" - 196' 2"	Schist: serpentine, chlorite, disseminated garnet; biotite present; top 3' limey.
196' 2" - 204' 4"	Limey schist: chlorite, quartz; minor biotite; 1" to 4" veins of calcite; some 1" to 3" quartz veins.
204' 4" - 238' 8"	Schist: probably altered marble; serpentine, chlorite, disseminated garnet, biotite; minor graphite; veins of calcite and quartz.
238' 8" - 284' 3"	Schist: serpentine, chlorite, disseminated garnet; veins of calcite and quartz.
284' 3" - 303' 0"	Schist: quartz, biotite, chlorite; graphite to 2%; pyrite and minor pyrrhotite parallel to foliation; schistosity angle 65°.
303' 0" - 310' 9"	Gabbro: generally fine-grained; biotite, basic feldspar, pyroxene; minor calcite; sulfides -1%.

Depth	Lithology
310' 9" - 312' 1"	Quartz vein.
312' 1" - 321' 0"	Gabbro: medium-grained; biotite, feldspar, pyroxene; lower 18" coarse-grained with minor calcite; minor disseminated garnet.
321' 0" - 324' 10"	Schist: quartz, chlorite, biotite; minor graphite; pyrite and minor pyrrhotite parallel to foliation; schistosity angle generally 80° to 90°.
324' 10" - 330' 0"	Schist: alternating quartz-biotite-chlorite schist and quartz-biotite-chlorite-serpentine schist.
330' 0" - 334' 7"	Gabbro: fine-grained; biotite, basic feldspar, pyroxene; bands of biotite schist.
334' 7" - 335' 11"	Schist: quartz, biotite; chlorite in top 6"; disseminated garnet; schistosity angle 75°.
335' 11" - 353' 7"	Gabbro: fine-grained; biotite, basic feldspar, pyroxene; minor pyrrhotite associated with quartz veins; occasional veinlet pyrrhotite; very minor disseminated copper; 352'3" - 353'7" increase in biotite.
353' 7" - 354' 9"	Quartz vein: with 3" biotite schist inclusion.
354' 9" - 366' 2"	Gabbro: medium-grained; pyrrhotite -1% to 362'; minor disseminated copper; 358'5" - 358'8" quartz-biotite schist; 360'5" - 360'9" quartz vein with minor pyrrhotite and copper; pyrrhotite generally 1% below 362'.
366' 2" - 377' 9"	Peridotite: pyroxene; 366'2" - 367'4" sulfides 10%; 367'4" - 368'6" sulfides 15%; 368'6" - 369'11" sulfides 20%; 369'11" - 373'11" sulfides 20% to 25%; 373'11" - 377'9" sulfides 25%.
377' 9" - 379' 8"	Gabbro: fine-grained; sulfides 20% to 25%.
379' 8" - 382' 0"	Gabbro or peridotite: carbonaceous; minor sulfides.

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Depth	Lithology
382' 0" - 390' 0"	Peridotite: pyroxene; 382'0" - 385'0" sulfides 25% to 30%; 385'0" - 386'0" sulfides 40%; 386'0" - 390'0" sulfides 40% to 50%; 388'11" - 389'3" quartz vein.
390'0" - 404' 6"	Schist: chlorite, serpentine, garnet, biotite; top 6" 15% sulfides; graphite 1% to 2%; calcite veins lower 3'.
404' 6" - 406' 0"	Dolomite: micaceous.
406' 0" - 429' 2"	Pegmatite: dominantly quartz; some biotite and muscovite; calcite in fractures.
429' 2" - 438'3"	Schist: quartz, biotite, chlorite; minor graphite; calcite veins; minor garnet and pyrite; schistosity angle 70°.
438' 3" - 440' 2"	Gabbro: fine-grained; some biotite; 1/2" biotite schist on top and bottom.
440' 2" - 441' 8"	Schist: quartz, biotite, chlorite; minor garnet.
441' 8" - 459' 1"	Altered rock: some bands hornblend schist; calcite in fractures; combined hornblend and pyroxene; numerous fine bands of quartz; 442'0" - 442'9" altered marble; 456'2" - 456'4" quartz vein with 20% pyrrhotite.
459' 1" - 461' 0"	Schist: quartz, biotite; disseminated garnet; narrow veins of quartz; schistosity angle with core axis 55° to 60°.

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Total Depth 461' 0"

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Assays:

E-55-3-1	365'2"	-	370'0"
E-55-3-2	370'0"	-	375'0"
E-55-3-3	375'0"	-	380'0"
E-55-3-4	380'0"	-	385'0"
E-55-3-5	385'0"	-	391'3"