X

PROGRESS REPORT

March - April, 1962

Docket No.: OME - 6104
Commodity : Nickel
Contract No.: 14-23-090-2123
County : Knox
State : Maine

ROLAND F. BEERS, INC. ALEXANDRIA, VIRGINIA

TABLE OF CONTENTS

GENERAL STATEMENT

STAGE II DRILLING

Drill Hole - H-18.5-2
Drill Hole - H-17.5-1

DRILL LOGS

Drill Log - H-18.5-2
Drill Log - H-17.5-1

Transverse Cross Sections showing Drill Holes on Harriman Grid from 4 North to 20 South

GENERAL STATEMENT

The nickeliferous pyrrhotite body lying below the Harriman Grid has been successfully traced from traverse 4 North through traverse 17 South. The last successful drill hole to the South was CP-13, drilled down to the west on traverse 17 South. Although the sulfide content in this drill hole was not high, the basic section measured approximately 150 feet which is significant. Drill hold CP-8, down to the east from the swamp on traverse 17 South, failed to cut basic rock.

Other drill holes south of the above-mentioned traverse have also failed to intercept basic rock. These drill holes are as follows:

Drill Hole	Location	Angle	Bearing	Total Drill Hole Depth
H-17.5-1	17.5 S + 0.75 E	-90°		424' 0"
H-18.5-1	18.5 S + 2.55 E	-45°	N 72° W	604' 0"
H-18.5-2	18.5 S + 1.00 W	-90°		299' 6"
CP-15	20.0 S + 1.15 E	-45°	N 72° W	450' 0"

With respect to the geophysical data it can now be assumed that the conductor from traverse 17.5 South to traverse 20 South is represented by graphitic schists. This leaves two possibilities for the basics:

1. The basic body does not exist south of traverse 17 South.

2. The basic body exists, but does not possess the physical characteristics recognized between traverses 4 North and 17 South - size, shape, attitude, elevation, and general location below surface grid coordinates.

Considering the first possibility, a basic section approximately 150 feet in thickness would have to lens out in 150 feet of distance between traverses 17 South and 18.5 South.

In connection with the second possibility, the basics would have to begin an easterly migration such that drill hole H-17.5-1 could not cut them, and east of drill hole H-18.5-1, basic rock would be found again. This would represent a displacement of roughly 200 feet to the east in 100 feet of traverse distance.

The reason for assuming an eastward migration is suggested by the general position of the basics in the Crawford Pond area relative to their position beneath the Harriman Grid. The approximate center of the basics with respect to grid coordinates in this area is 3.25 east and 150 feet below sea level. Beneath the Harriman Grid from traverses 17 South to 10.5 South, the average

position of the center is 0.5 west, and 50 feet below sea level. If the basics exist in the area in question, they must eventually assume a position which represents an eastward migration of 375 feet, and a drop in elevation of 100 feet. The longitudinal distance in which this displacement may occur is 2500 feet (between 17 South and 42 South). The immediate absence of the basics South of traverse 17 South suggests that whatever happened did so quite abruptly.

It is suggested that the geophysical data be carefully re-evaluated concerning a possible offset - especially in the area between 17 South and 24 South.

At the present time, the possibility of faulting is being investigated in the field office. The surface area and the core are being examined carefully in order to evaluate this hypothesis. While this line of thought is suggestive of a pre-tectonic basic body, there is also the suggestion that the basic body is post-tectonic but forcibly injected along a path or zone of weakness provided by a pre-existing shear zone.

STAGE II DRILLING

Drill Hole H-18.5-2

This drill hole was designed to cut vertically down through the conductor axis on traverse 18.5 South at 1 East. The core was dominantly quartz-biotite schist, which was graphitic and chloritic with minor hornblend to 227 feet drill hole depth, and hornblend schist to the total depth of 299'6".

Drill Hole H-17.5-1

This drill hole on traverse 17.5 South at 0.75 East cut vertically east of and below the area previously investigated by Drill Hole H-18.5-1. The general lithology was quartz-biotite schist. The schist was rich in hornblend to 36 feet, then chloritic with minor graphite to 134 feet. A black hornblend schist was cut from 134 feet to 178 feet. The core contained some chlorite and graphite to a depth of 280 feet.

A set of matched transverse cross-sections for the Harriman Grid are a part of this report. Basics cut by drill holes are shown by double lines - the cross-sections are otherwise self-explanatory and lend themselves easily to light-table study.

DRILL LOG

Hole No.: H-18.5-2
Location: 18.5 S. + 1 W.
Harriman Grid.

Angle: -90°
Depth: 299'6"
Elevation: 151.3' a.s.l.
Logged by: D. E. Wyke
2-9-62 to 3-5-62

Drill Hole Data:

0'0"	- 8'0"	Overburden, no core
8'0"	-299'6"	AX core
0'0"	- 8'0"	AX casing left in hole by request

Depth		Lithology
0'0"	- 8'0"	Overburden and boulders
8'0"	-12'2"	Pegmatite: quartz, biotite, muscovite.
12'2"	-102'9"	Schist: quartz, chlorite, muscovite, graphite 1% to 3%; pyrite 1% to 2% associated with graphite; schistosity angle with core axis: 12' - 20' generally 35° to 40°; 20' - 30' generally 85° to 90°; 30' - 70' variable; 2" of hornblend-biotite schist cut at 44'0" and 10" at 52'8" drill hole depths; several quartz-muscovite and quartz pegmatite zones 1' to 3' in thickness were noted; a general increase in biotite below 60' drill hole depth.
102'9"	-106'5"	Quartz: with minor muscovite.
106'5"	-118'0"	Schist: dominantly quartz and chlorite; muscovite present; minor biotite; occasional graphite and minor pyrite.
118'0"	-119'2"	Schist: hornblend and biotite; probable pyroxene suggesting altered gabbro; basic feldspar present.
119'2"	-124'3"	Schist: quartz, chlorite; biotite and muscovite present; very minor graphite; mica schist from 122'9" to 124'3".

Depth	Lithology
124'3" - 126'8"	Quartz: trace of tourmaline; minor muscovite.
126'8" - 196'5"	Schist: quartz, chlorite; graphite 1% to 2%; minor muscovite; abundant pyrite parallel to schistosity associated with graphite; minor garnet; biotite present; minor pegmatite; occassional quartz vein 2" to 6" in thickness; schistosity angle with core axis generally 40° to 180' changing to 80° by 195'.
196'5" - 209'0"	Pegmatite; quartz, biotite; 196'5" - 202'0" medium-grained; 202'0" - 209'0" fine-grained.
209'0" - 224'6"	Schist: quartz, chlorite; minor muscovite and graphite; schistosity angle generally 60°.
224'6" - 227'8"	Pegmatite: quartz, muscovite; minor garnet and trace of tourmaline.
227'8" - 287'3"	Schist: hornblend, quartz; chlorite present; minor quartz-chlorite schist representing veins or inclusions; schistosity angle: 227'8" - 240' generally 85°; 240' - 287' generally 35°.
287'3" - 299'2"	Hornblend and quartz: quartz dominant.
299'2" - 299'6"	Hornblend schist: minor quartz.

* * * * * * * *

Total Depth 299'6"

* * * * * * * *

DRILL LOG

Hole No.: H-17.5-1
Location: 17.5 S. + 0.75 E.
Harriman Grid

Angle: -90°
Depth: 424'0"
Elevation: 161.8'
Logged by: D. E. Wyke
3/15/62 to 4/7/62

Drill Hole Data:

0'0" - 12'0"	Overburden - no core
12'0" - 424'0"	AX core
0'0" - 12'0"	AX casing left in hole by request

Depth	Lithology
0'0" - 12'0"	Overburden - no core.
12'0" - 36'0"	Schist: quartz, biotite, hornblend; pyrrhotite to 1% in isolated crystals and streaks; schistosity highly variable and generally parallel to core axis; quartz veins 4" and 6" near 36', some narrow quartz veins parallel to core axis.
36'0" - 57'1"	Schist: quartz, biotite, chlorite; less pyrrhotite than above section; only minor hornblend.
57'1" - 68'2"	Schist: quartz, biotite.
68'2" - 81'0"	Schist: chlorite, biotite; minor quartz.
81'0" - 119'4"	Schist: chlorite, biotite, fine-grained; schistosity angle highly variable but 10° where identifiable.
119'4" - 120'4"	Quartz vein.
120'4" - 123'1"	Core Loss: marked "cave" by drillers: probably soft mica schist; possible shear zone.
123'1" - 124'11"	Schist: quartz, biotite; schistosity generally 80° to c.a.
124'11" - 128'0"	Schist: dominantly garnet to 127', then garnet, biotite, chlorite with minor quartz.
128'0" - 134'2"	Schist: quartz, biotite, quartz-biotite pegmatite lower 1'.

Depth	Lithology
134'2" - 178'0"	Schist: black; quartz, hornblend, probable chlorite; carbonates indicated by effervescence; quartz veins; core broken 158' to 159' but not suggestive; veins of quartz-biotite pegmatite in lower 5'.
178'0" - 203'5"	Schist: quartz, biotite; graphitic; quartz and feldspar cutting core at 35° angle in ½" to 1" zones; pyrite associated with graphite; pyrrhotite to 1% in lower 10"; some 1" bands of biotite schist.
203'5" - 207'6"	Schist: fine-grained; chlorite and biotite; graphitic; pyrrhotite to 1%.
207'6" - 217'5"	Pegmatite: fine-grained; quartz-biotite; occassional isolated pyrrhotite crystal.
217'5" - 230'0"	Schist: quartz, biotite; graphitic; some serpentine lower 3'; minor pyrrhotite and pyrite.
230'0" - 231'9"	Schist: quartz, biotite, chlorite; some pyrrhotite; schistosity 70° to c.a. and parallel.
231'9" - 241'1"	Schist: quartz, biotite; fine-grained; effervescence indicates lime; pyrrhotite still 1%; occassional quartz vein.
241'1" - 280'3"	Schist: probably quartz, biotite; silicified; graphitic, chloritic; pyrite and occassional pyrrhotite; no schistosity.
280'3" - 289'0"	Pegmatite: dominantly quartz; muscovite and minor biotite; minor graphite.
289'0" - 315'0"	Pegmatite: quartz, muscovite.
315'0" - 323'4"	Schist: quartz, chlorite; dominantly quartz.
323'4" - 348'0"	Pegmatite: quartz, muscovite.
348'0" - 424'0"	Schist: quartz, biotite; schistosity angle generally 90° to c.a.; some 2" to 4" quartz-muscovite pegmatite zones; lower 2' quartz; blocked bit at 415' probably soft biotite schist.

* * * * * * * *

Total Depth 424'0"

* * * * * * * *

TRANSVERSE CROSS SECTIONS

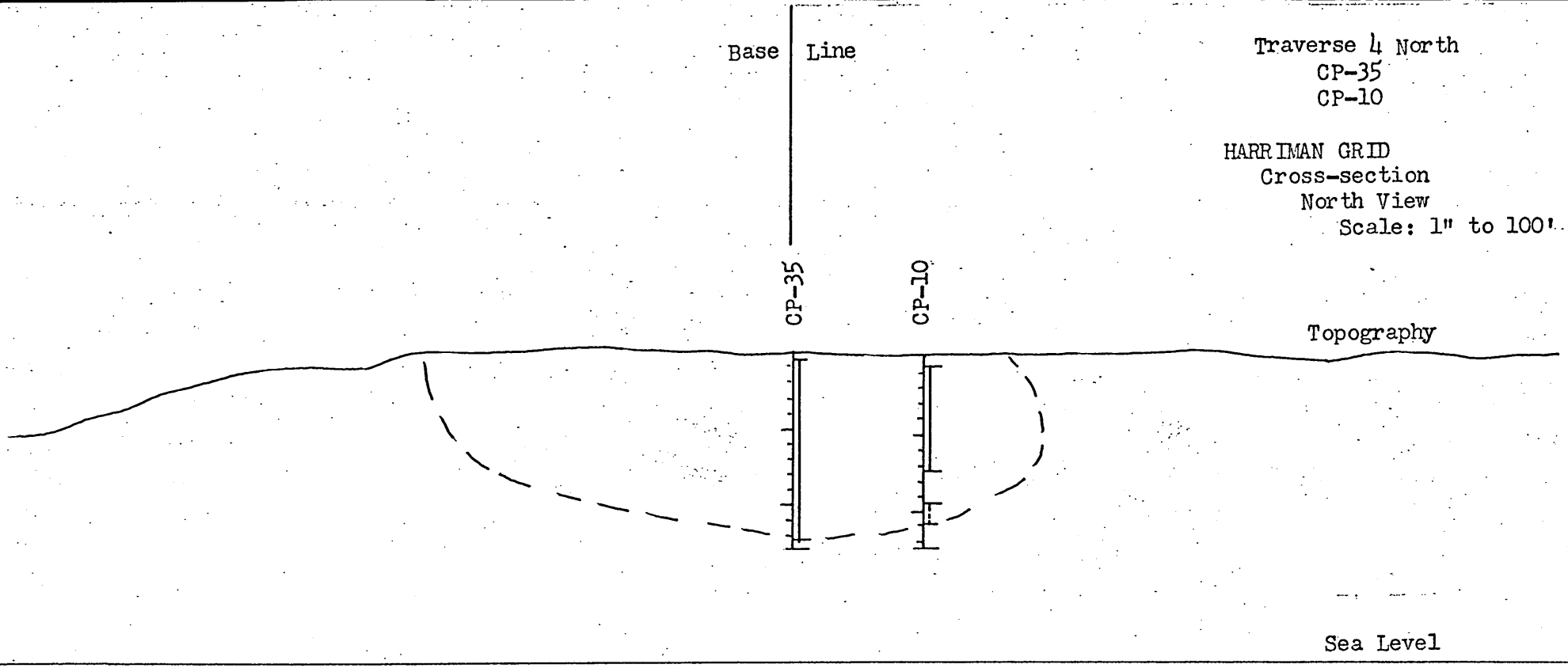
Showing Drill Holes on

Harriman Grid From

4 North to 20 South

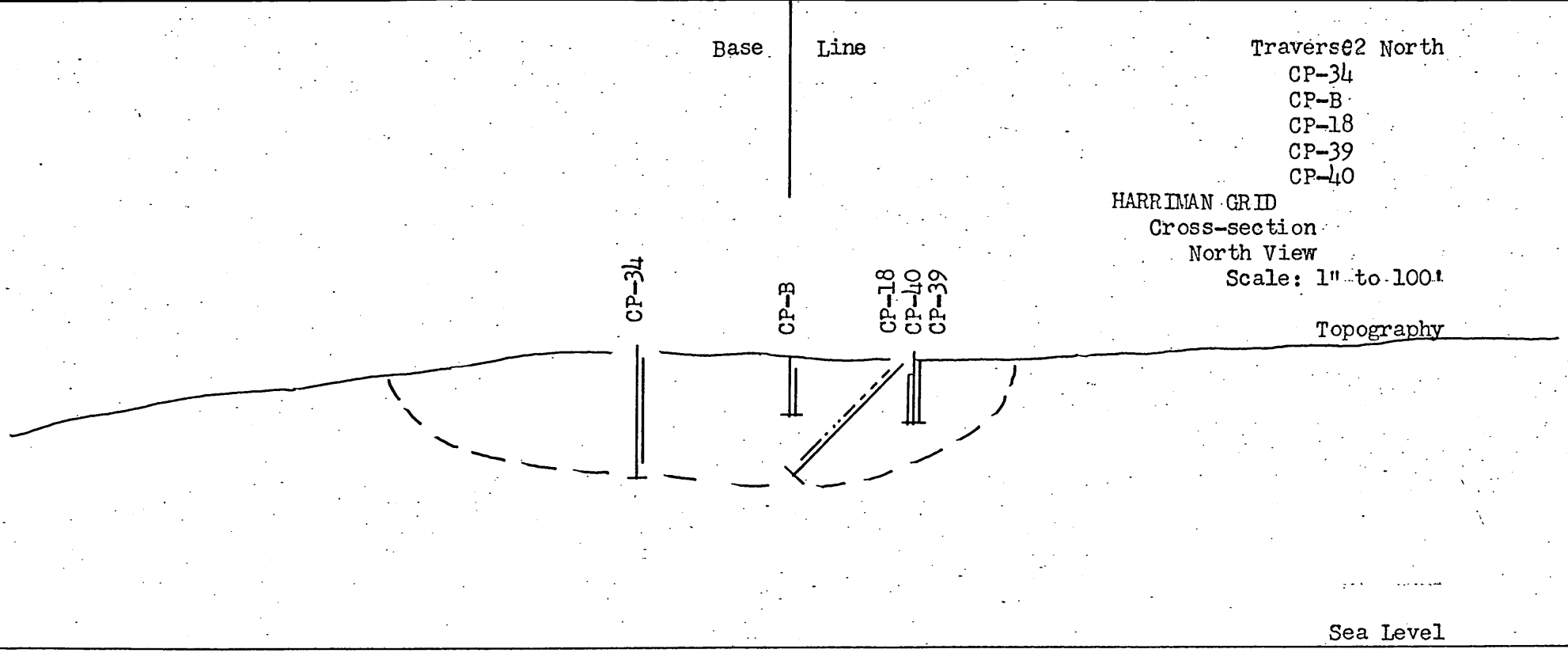
Traverse 4 North
CP-35
CP-10

HARRIMAN GRID
Cross-section
North View
Scale: 1" to 100'



Traverse2 North
CP-34
CP-B
CP-18
CP-39
CP-40

HARRIMAN GRID
Cross-section
North View
Scale: 1" to 100'

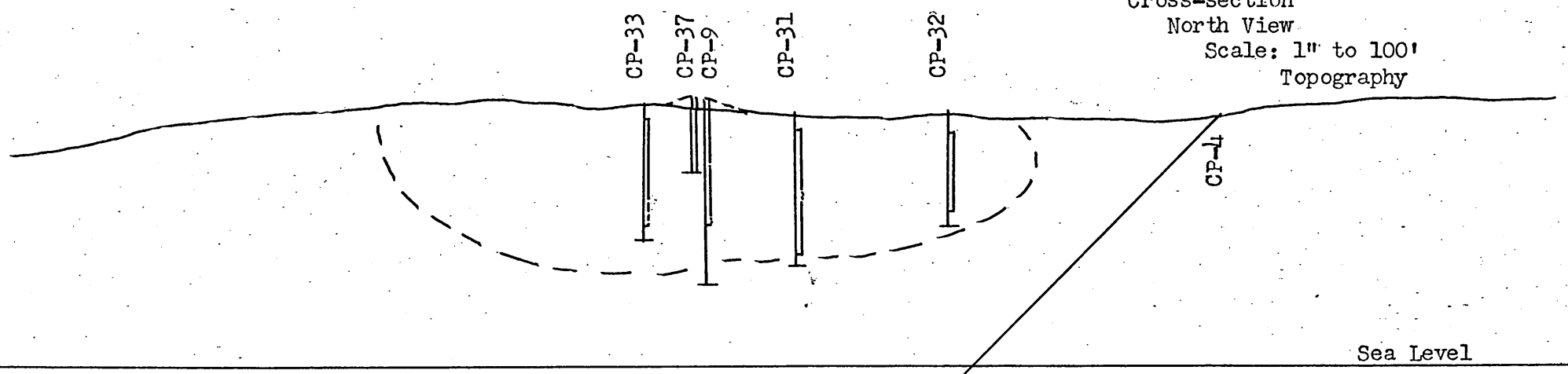


Base Line

Traverse 0

CP-33	
CP-31	
CP-32	
CP-4	
CP-37	0.42 North
CP-9	0.45 North

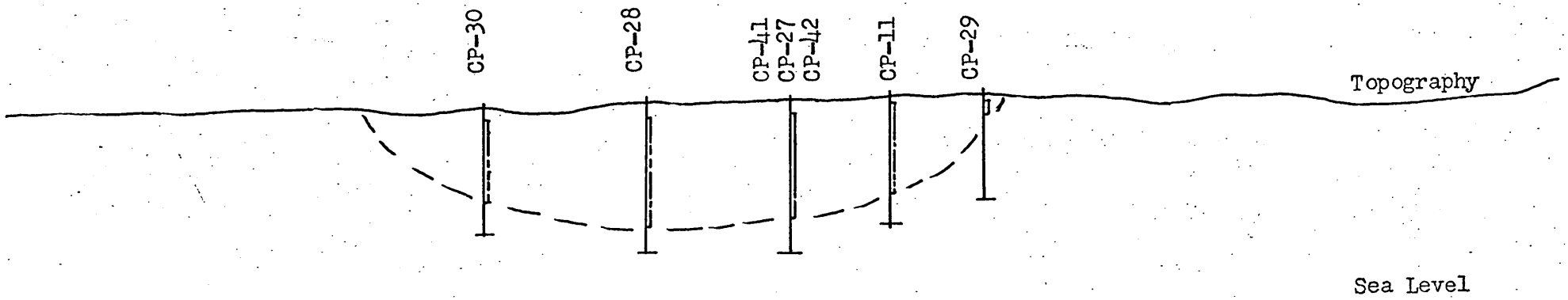
HARRIMAN GRID
Cross-section
North View
Scale: 1" to 100'
Topography



Base Line

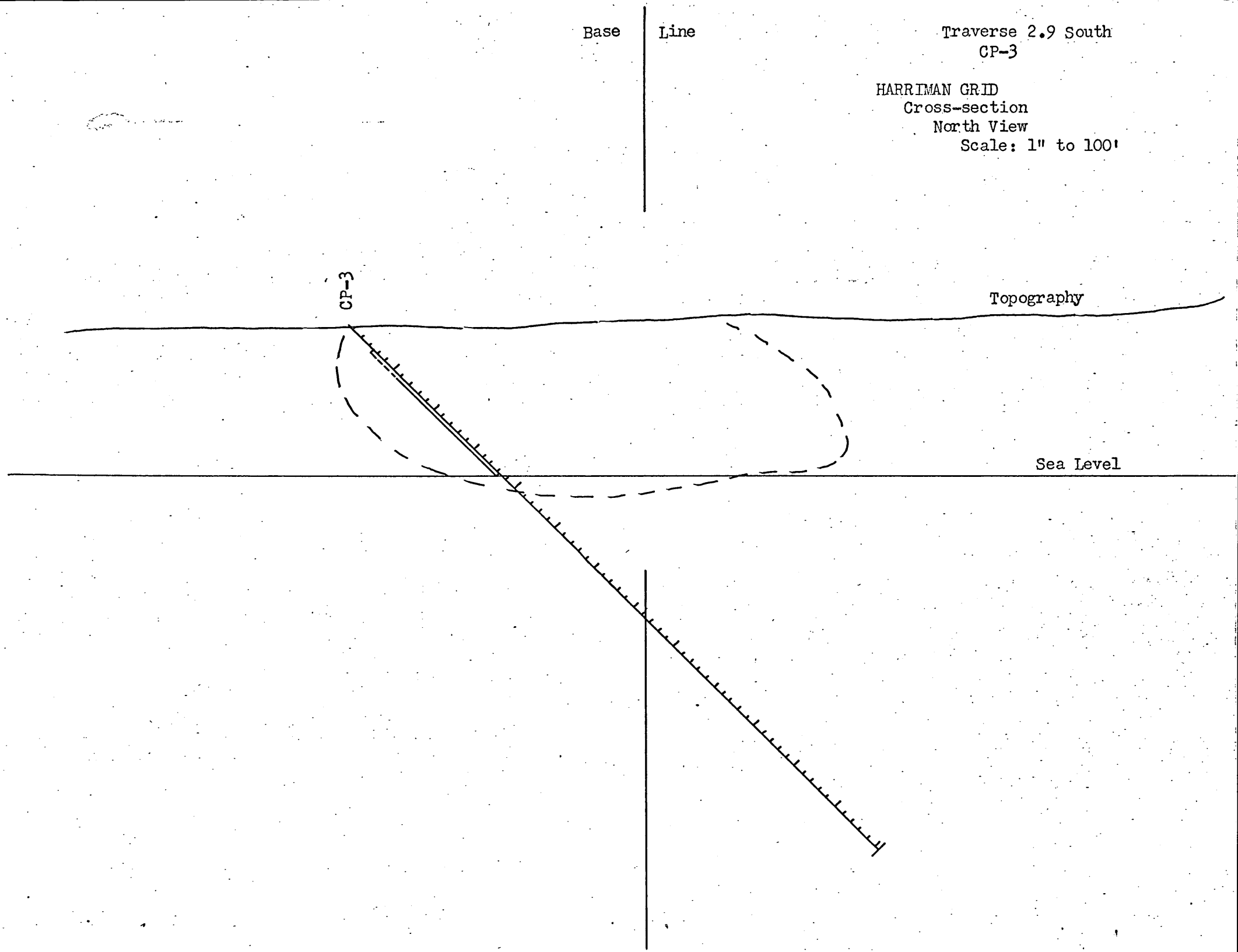
Traverse 2 South
CP-30
CP-28
CP-27
CP-41
CP-42
CP-11
CP-29

HARRIMAN GRID
Cross-section
North View
Scale: 1" to 100'



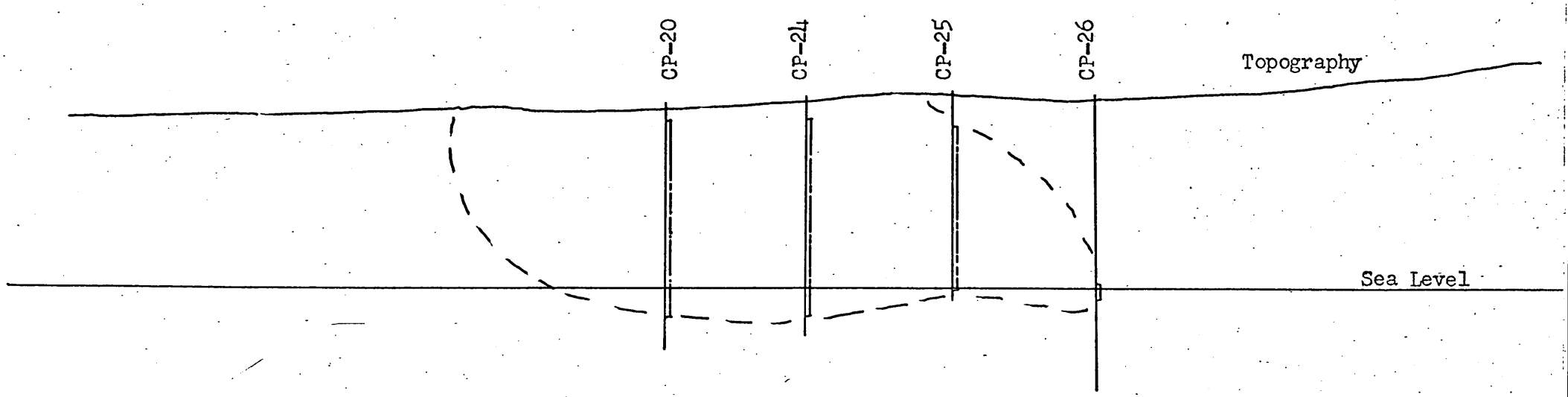
Traverse 2.9 South
CP-3

HARRIMAN GRID
Cross-section
North View
Scale: 1" to 100'



Traverse 4 South
CP-20
CP-24
CP-25
CP-26

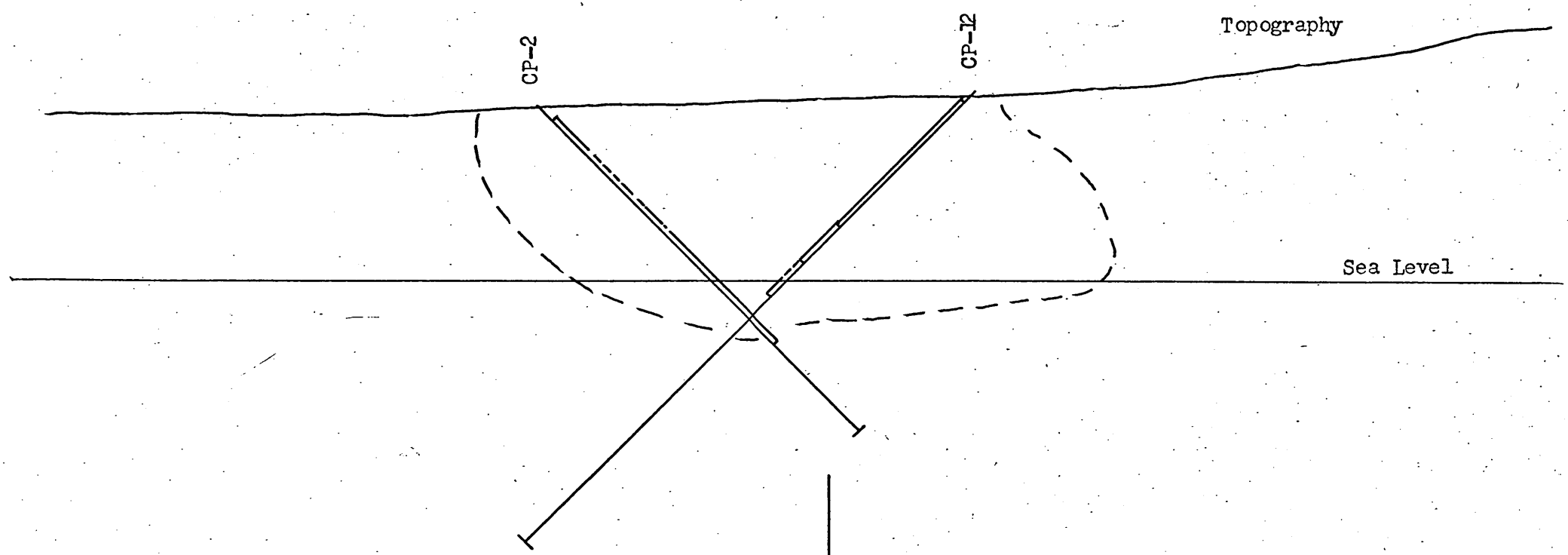
HARRIMAN GRID
Cross-section
North View
Scale: 1" to 100'



Base Line

Traverse 4.7 to 5.55 South
CP-2 (4.7 South- collar)
(5.55 South - bottom)
CP-12 (on 5 South)

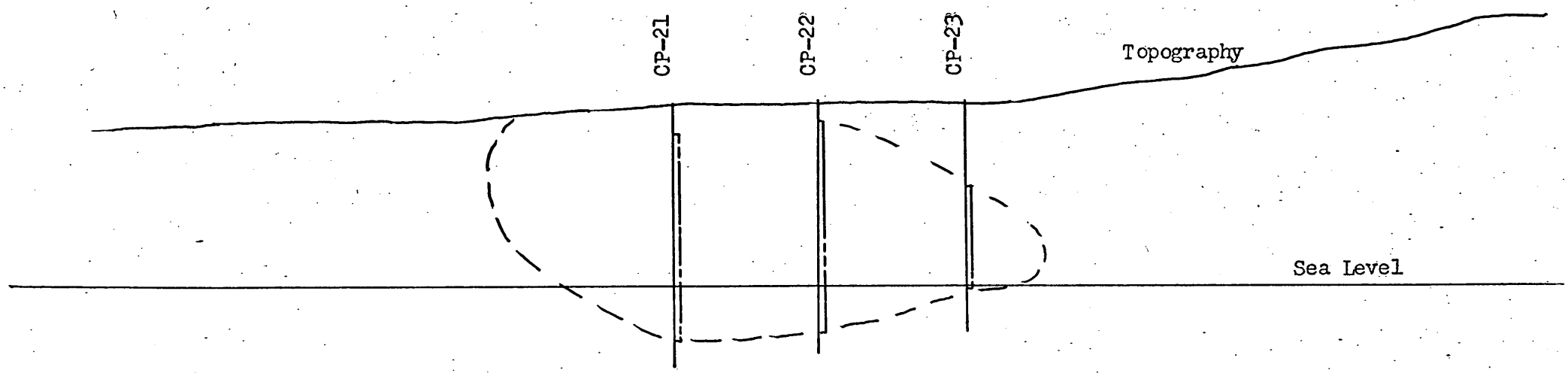
HARRIMAN GRID
Cross-section
North View
Scale: 1" to 100'



Base Line

Traverse 6 South
CP-21
CP-22
CP-23

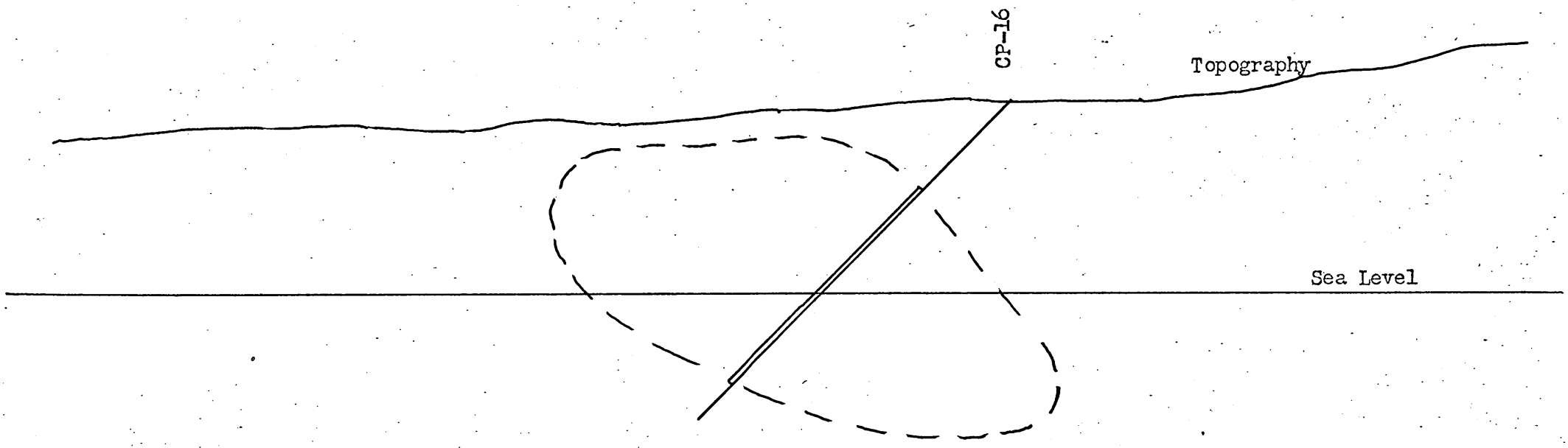
HARRIMAN GRID
Cross-section
North View
Scale: 1" to 100'



Base Line

Traverse 7 South
CP-16

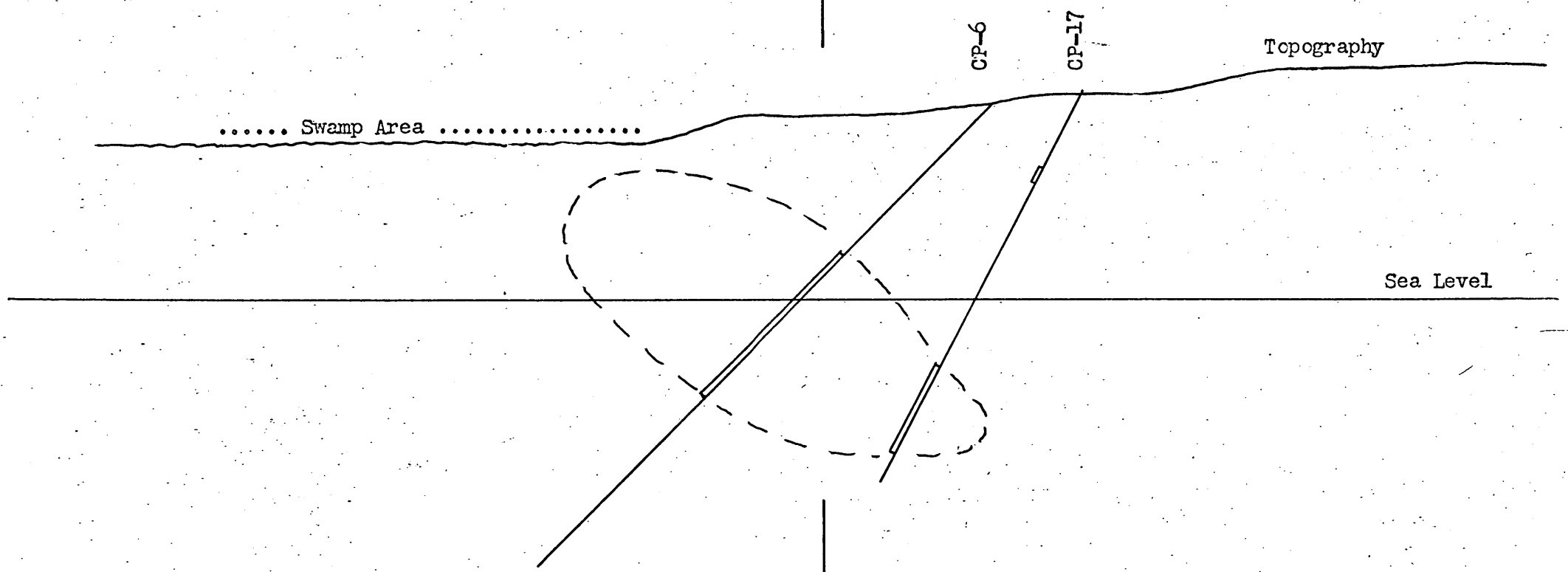
HARRIMAN GRID
Cross-section
North View
Scale: 1" to 100'



Base Line

Traverse 9 South
CP-6
CP-17

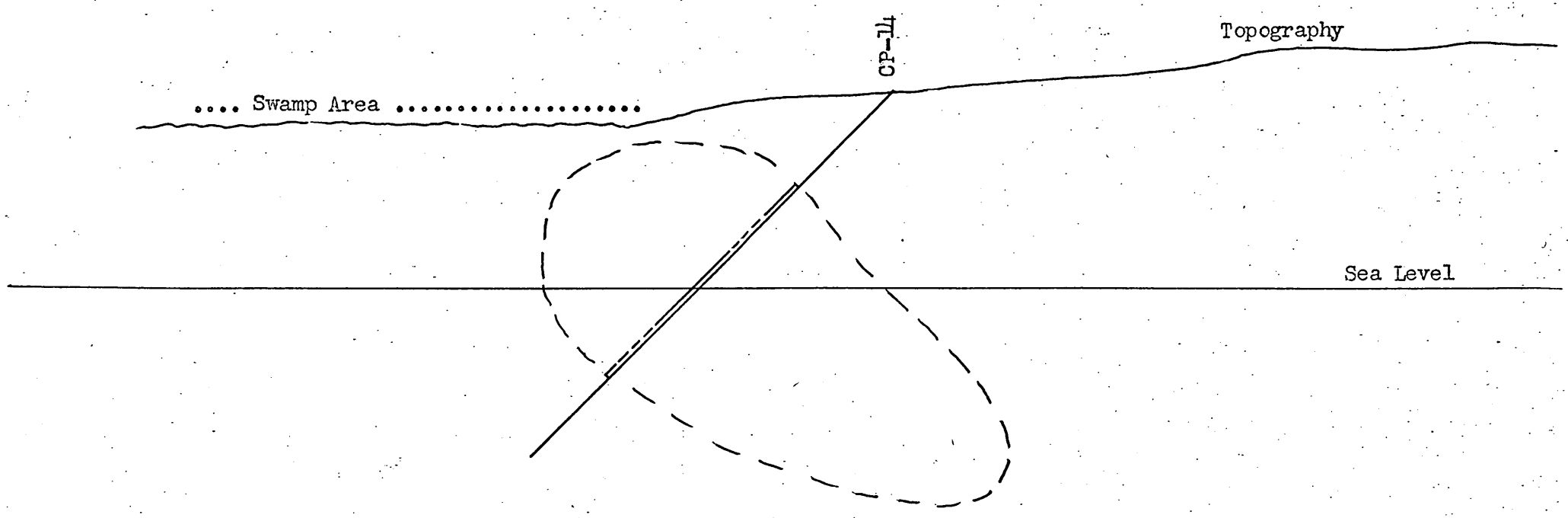
HARRIMAN GRID
Cross-section
North View
Scale: 1" to 100'



Base Line

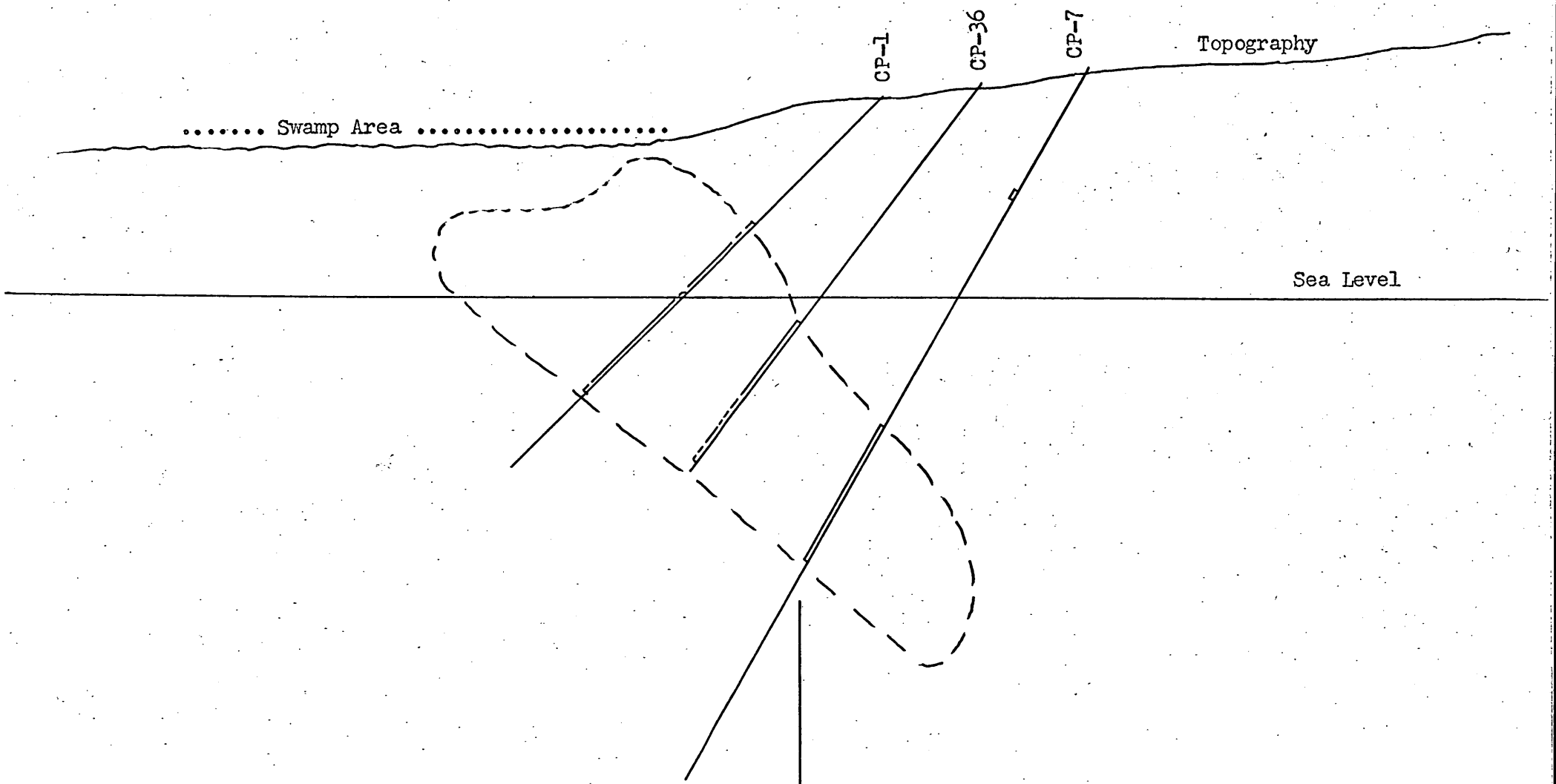
Traverse 10.5 South
CP-14

HARRIMAN GRID
Cross-section
North View
Scale: 1" to 100'



Traverse 12 South
CP-1
CP-36
CP-7

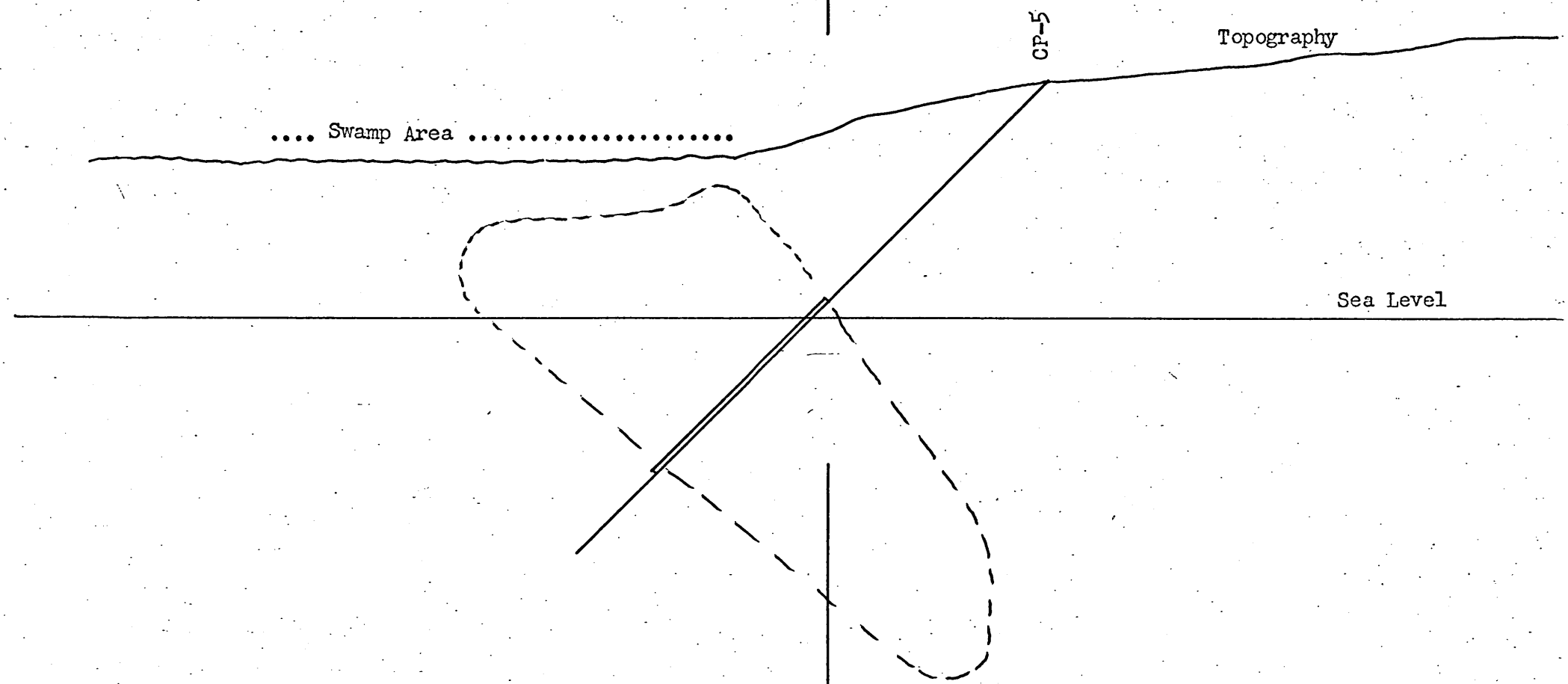
HARRIMAN GRID
Cross-section
North View
Scale: 1" to 100'

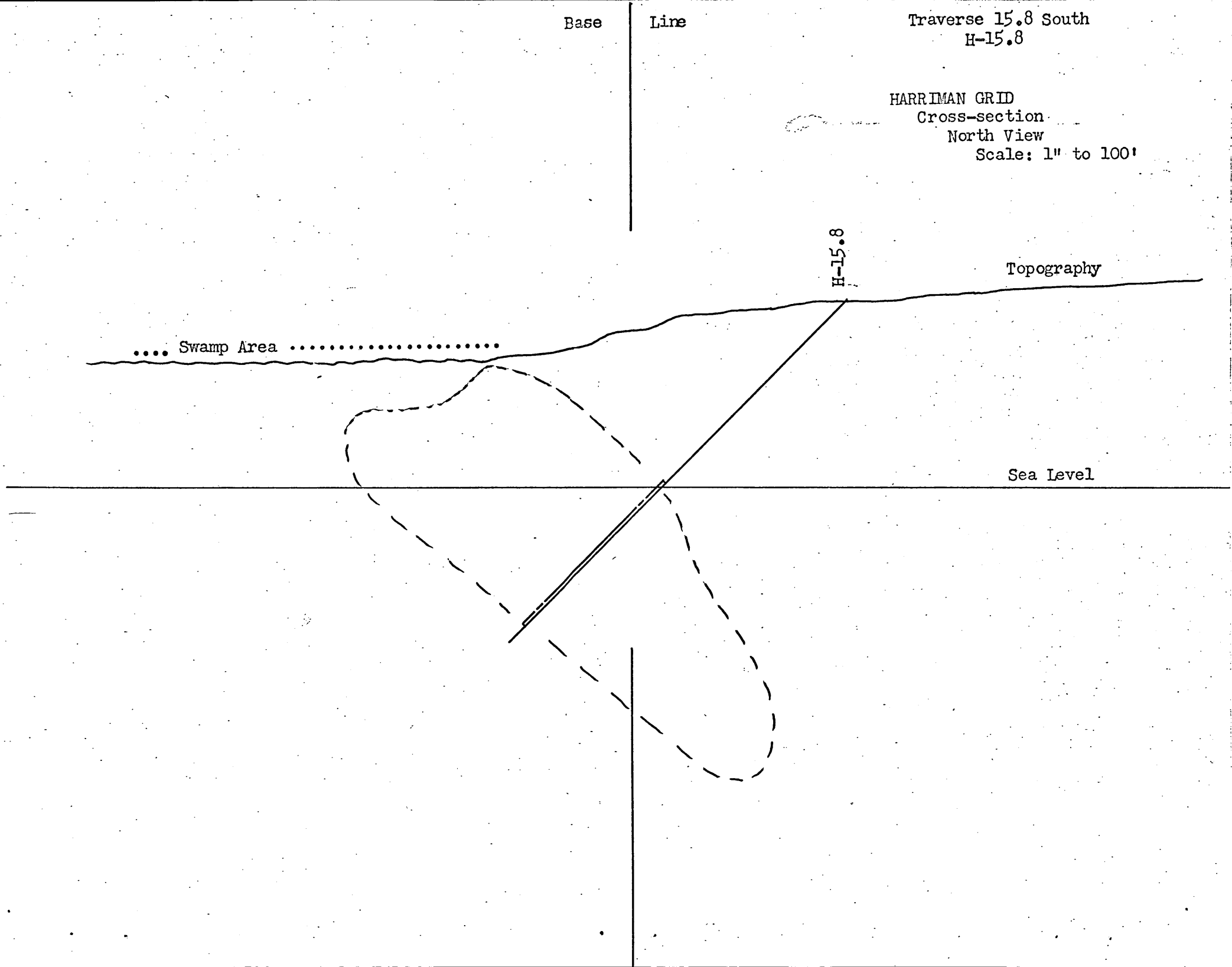


Base Line

Traverse 14.3 North
CP-5

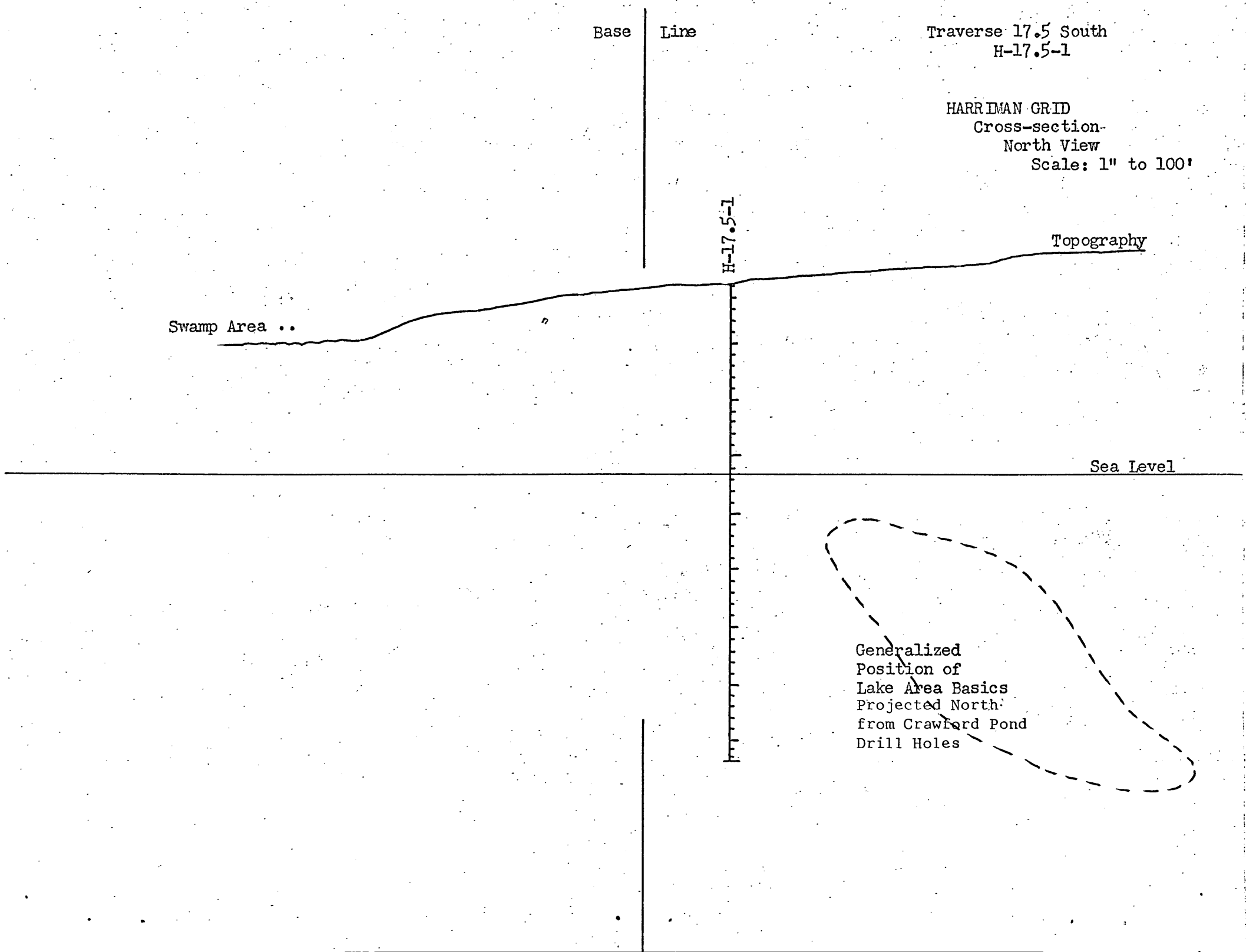
HARRIMAN GRID
Cross-section
North View
Scale: 1" to 100'




Base
Line
Traverse 15.8 South
H-15.8
HARRIMAN GRID
Cross-section
North View
Scale: 1" to 100'
H-15.8
Topography
Swamp Area
Sea Level

Traverse 17.5 South
H-17.5-1

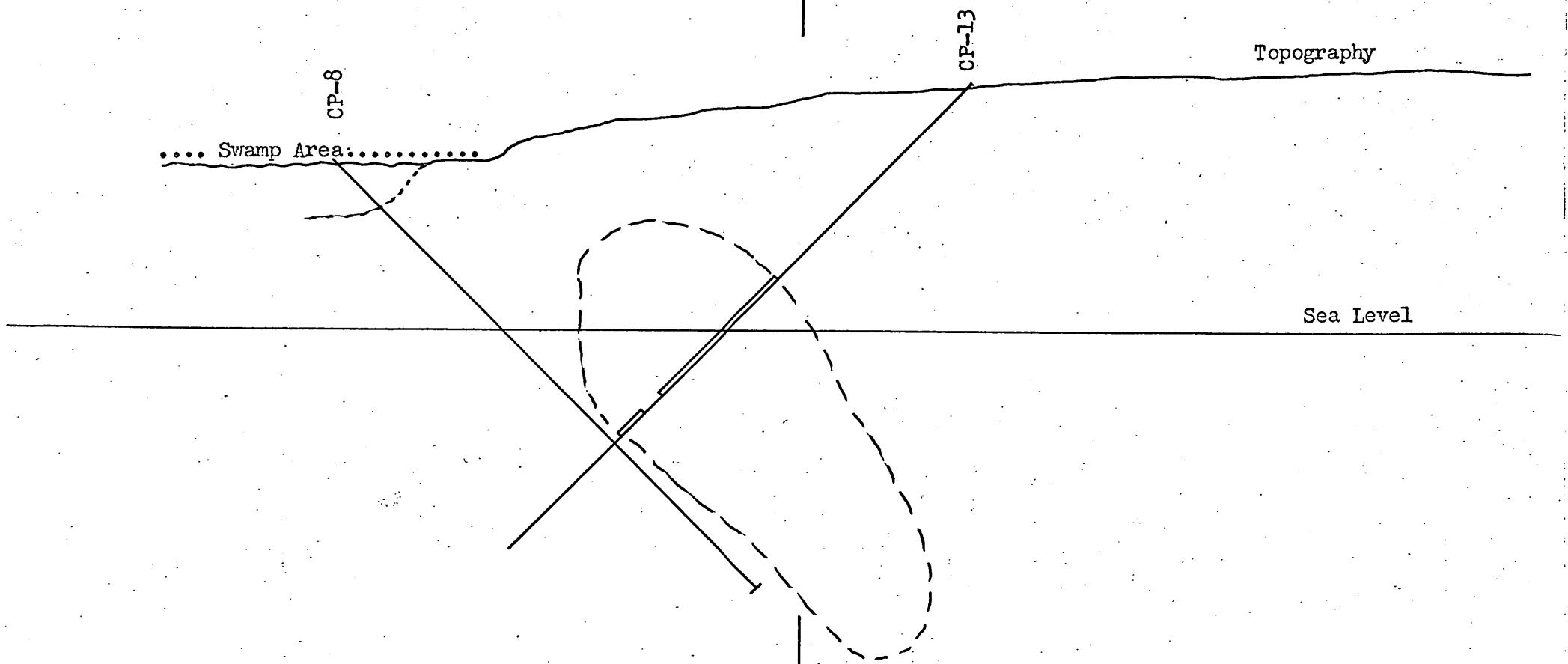
HARRIMAN GRID
Cross-section
North View
Scale: 1" to 100'

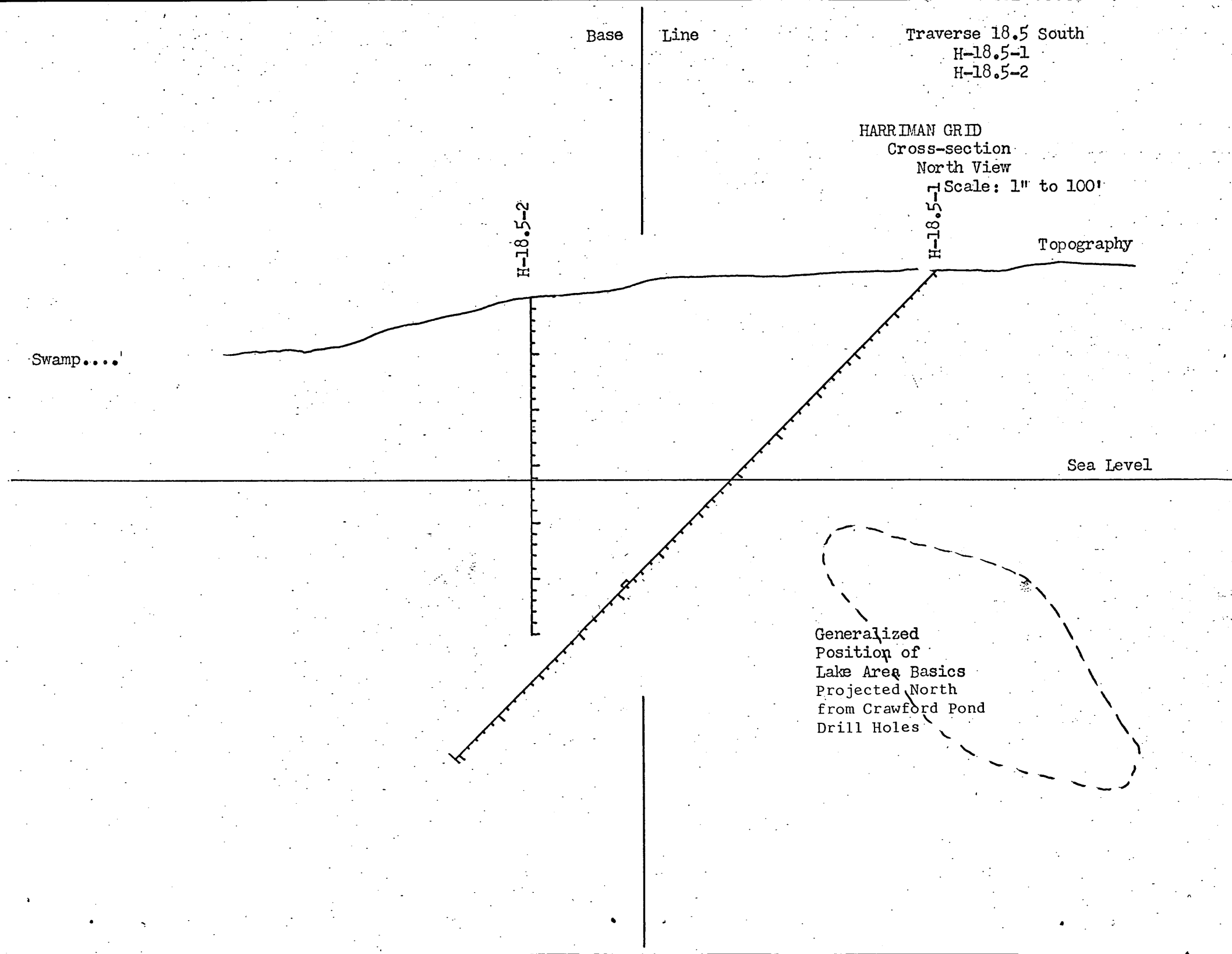


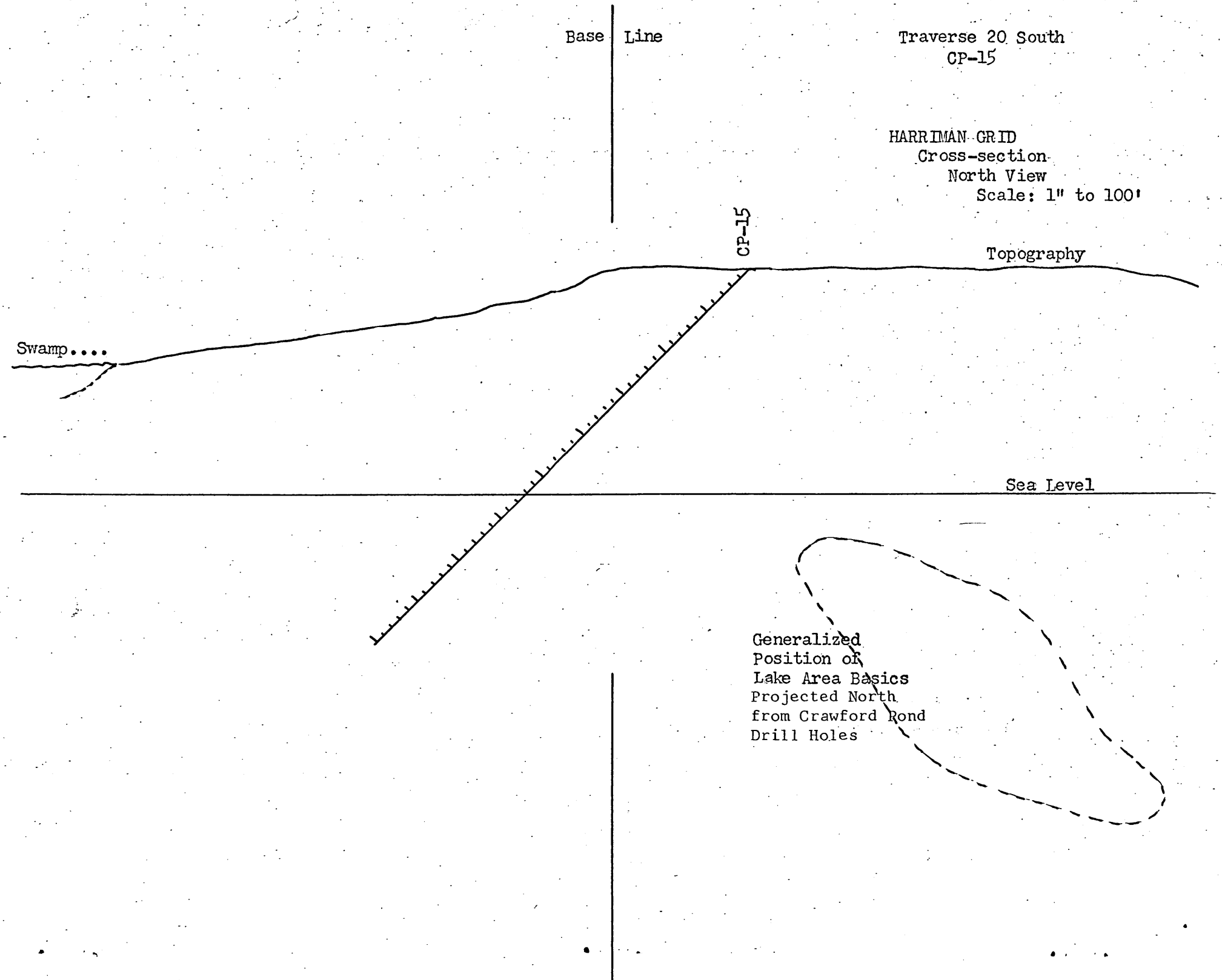
Base Line

Traverse 17 South
CP-8
CP-13

HARRIMAN GRID
Cross-section-
North View
Scale: 1" to 100'




Base Line
Traverse 18.5 South
H-18.5-1
H-18.5-2
HARRIMAN GRID
Cross-section
North View
Scale: 1" to 100'
H-18.5-2
H-18.5-1
Topography
Swamp....
Sea Level
Generalized
Position of
Lake Area Basics
Projected North
from Crawford Pond
Drill Holes


Base Line
Traverse 20 South
CP-15
HARRIMAN GRID
Cross-section
North View
Scale: 1" to 100'
CP-15
Topography
Swamp....
Sea Level
Generalized
Position of
Lake Area Basics
Projected North
from Crawford Rond
Drill Holes

500

PROGRESS REPORT

February, 1962

Docket No.: OME - 6104
Commodity : Nickel
Contract No.: 14-23-090-2123
County: Knox
State: Maine

ROLAND F. BEERS, INC. ALEXANDRIA, VIRGINIA

GENERAL STATEMENT

Contract No. 2123 (OME - 6104), dated February 16, 1961, as amended, was further amended by Amendment No. 5 by the Office of Mineral Exploration on February 16, 1962, effective January 29, 1962. This amendment permitted diamond drill footage not used on Crawford Pond and Alford Lake to be used for investigation of the Harriman Tract between Traverses 18.5 South and 24 South. A further amendment (No. 6) increased the above area to Traverse 17 South.

Five drill holes were designed on the Harriman Tract within the limits mentioned above. The information concerning these drill holes is listed below in tabular form:

	Coordinates	Designation	Angle	Estimated Depth
1.	18.5 S. + 1 W.	H-18.5-2	-90°	300'
2.	17.5 S. + .75 E.	H-17.5-1	-90°	400'
3.	20.0 S. + 1.25 W.	H-20-2	-90°	300'
4.	20.0 S. + 2.0 E.	H-20-2	-90°	400'
5.	24.0 S. + 2.5 E.	H-24-1	-90°	400'

Drill Hole H-18.5-2 represents the first to be drilled with respect to the above mentioned area. It is not expected that all five of the listed drill holes will be drilled; or that the coordinates offered for the last three holes will remain unchanged. The investigation is concerned with extending the known southern limit of valuable minerals as far as possible. It is believed by all concerned that the difficulty so far experienced has been caused by one or more of the following factors:

1. A change in the depth;
2. A change in the attitude;
3. An offset caused by a drag fold;
4. The effect of graphite influencing the geophysical data at the expense of the valuable mineral deposite.

In the event that Drill Hole H-18.5 is successful in cutting basic rock with significant values the geophysical conductor axis will be further investigated by a second hole located at 20.0 S. + 1.25 W. If the first drill hole supplies information that the conductor is represented by graphite, then the second drill hole will be located at 17.5 S. + .75 E on the assumption that one or more of the four factors listed do exist. In case the latter location proves successful drill holes on Traverses 20 South and 24 South can be expected to extend the southern limits at 2.0 E. and 2.5 E. respectively.

STAGE II DRILLING - February, 1962

DRILL HOLE H-18.5-2

The drill was moved on location February 9 and final preparations were completed. The nearest water supply was located at 18.5 South and approximately 3.5 E. A trench dug at this location supplied sufficient water but difficulty was experienced because the standing water in the trench repeatedly froze. The total depth attained at the writing of this report is 124' 3" and the drill log to this depth accompanies this report.

ROLAND F. BEERS, INC.

DRILL LOG

Hole No.: H-18.5-2
Location: 18.5 S. + 1 W.
Harriman Grid

Angle: -90°
Depth: 124' 3"
Elevation: 151.3' a.s.l.
Logged by: D. E. Wyke
2-9-62 to 2-28-62

Drill Hole Data:

0' 0" - 8' 0"	AX casing left in hole by request
0' 0" - 8' 0"	Overburden, no core
8' 0" - 124' 3"	AX core

Depth	Lithology
0' 0" - 8' 0"	Overburden and boulders
8' 0" - 12' 2"	Pegmatite: quartz, biotite, muscovite.
12' 2" - 102' 9"	Schist: quartz, chlorite, muscovite, graphite 1% to 3%; pyrite 1% to 2% associated with graphite; schistosity angle with core axis: 12' - 20' generally 35° to 40°; 20' - 30' generally 85° to 90°; 30' - 70' variable; 2" of hornblend-biotite schist cut at 44' 0" and 10" at 52' 8" drill hole depths; several quartz-muscovite and quartz pegmatite zones 1' to 3' in thickness were noted; a general increase in biotite below 60' drill hole depth.
102' 9" - 106' 5"	Quartz: with minor muscovite.
106' 5" - 118' 0"	Schist: dominantly quartz and chlorite; muscovite present; minor biotite; occasional graphite and minor pyrite.
118' 0" - 119' 2"	Schist: hornblend and biotite; probable pyroxene suggesting altered gabbro; basic feldspar present.
119' 2" - 124' 3"	Schist: quartz, chlorite; biotite and muscovite present; very minor graphite; mica schist from 122' 9" to 124' 3".

Represents total depth attained February 28, 1962.

~~Mr. Hart~~
File

PROGRESS REPORT

January, 1962

Docket No.	:	OME - 6104
Commodity	:	Nickel
Contract No.	:	14-23-090-2123
County	:	Knox
State	:	Maine

ROLAND F. BEERS, INC. ALEXANDRIA, VIRGINIA

TABLE OF CONTENTS

STAGE II DRILLING - JANUARY, 1962

DRILL HOLE A-O-2

DRILL LOG

DRILL HOLE A-O-2

MAP SECTION

DRILL HOLE LOCATION AND INDEX MAP

ALFORD LAKE MAGNETOMETER SURVEY - IN PART

STAGE II DRILLING - JANUARY, 1962

DRILL HOLE A-0-2

This drill hole was collared at 0.20 South + 0.35 West and drilled down to the west at -44° approximately parallel to Traverse Line "0". The purpose of the drill hole was threefold:

1. To probe for the conductor unexplained by Drill Hole A-0-1.
2. To cut the magnetic anomaly of approximately 2000 gamma relief between 1 West and 2.5 West on Traverse 0.
3. To obtain stratigraphic and structural information.

The drill cut schist and pegmatite to 278 feet drill hole depth before intercepting lime rock in the form of limey schist. To this depth the schists and pegmatites intermittently contained finely-divided and disseminated FeS to 1% which was identified to be partly pyrrhotite by hand lens only. Minor graphite was present in the schists, especially the chloritic schists. Graphite occured as extremely thin layers parallel to the schistosity in amounts of -1% and occassionally 1%. The total amount of graphite was considerably less than that found in drill cores throughout most of the Crawford Pond area. Most of the graphite in the core was found at depths of less than 200 feet vertically below the surface. Since the Horizontal Coil survey made during the original geophysical work did not show anomalous values, it is not certain that the percentage of graphite present in this drill hole explains the conductor. This January the Horizontal Coil unit was run over Traverse 0 with negative results. Due to sub-zero temperatures the unit becomes inoperative within a few minutes and only Traverse 0 was rechecked at this time. When slightly warmer weather exists the traverses will be checked to 10 North at least.

Several narrow basic sections were cut throughout the drill hole as listed below:

111' 5" - 112' 1"
116' 2" - 118' 2"
239' 2" - 240' 1"
370' 10" - 372' 0"

All of the basics were fine-grained, barren of sulfides, and usually gabbroic. The eight foot basic section from 230' to 238' drill hole depths in Drill Hole A-0-1 was not intercepted in the current hole.

Plotting the tops of the upper lime sections in both drill holes gives a dip of -48° down to the east. Other attempts to correlate lithologically similar sections in the two drill holes have met with little success.

Hand lens studies of the core of the current drill hole failed to show evidence of magnetite; however, the magnetic anomaly is believed due in part to disseminated magnetite. Representative samples of the core of both drill holes were sent to Charlottesville, Virginia as the individual holes progressed. A petrographic examination of the core should yield more specific information with respect to the pyrrhotite, magnetite, and graphite content.

Drill Hole A-0-2 was terminated at a total depth of 510 feet after failing to intercept peridotite or the conductor. The Sharpe SE-200 unit was rerun over the "East-Side" conductor on Alford Lake with the data obtained closely approximating that of the original survey through Traverse 10 North. Both drill holes are being left open.

DRILL LOG

Hole No.:	A-O-2	Angle:	-44°
	Alford Lake No. 2	Bearing:	N. 78° W.
Location:	0.20 South + 0.35 W.	Total Depth:	510' 0"
	Alford Lake Ice Grid	Elevation:	269' (lake level)
	Coordinates	Logged by	D. E. Wyke
		1-4-62 to 1-18-62	

Drill Hole Data:

0' 0" - 17' 0"	Overburden - no core
17' 0" - Total Depth	AX core
0' 0" - 20' 0"	AX casing left in hole by request
403' 3" - 405' 5"	Serpentine zone - caving - cemented

Depth	Lithology
0' 0" - 17' 0"	Sand and boulders
17' 0" - 45' 8"	Pegmatite: quartz, muscovite; narrow zones of quartz and of biotite schist.
45' 8" - 59' 8"	Schist: quartz, biotite, chlorite; schistosity angle 45° to 60° to core axis and variable.
59' 8" - 74' 10"	Schist: quartz, hornblend; minor biotite; 66' 8" - 68' 7" quartz-muscovite pegmatite; 68' 10" - 69' 2" quartz-muscovite pegmatite; 70' 0" - 70' 5" quartz-muscovite-biotite pegmatite; 70' 8" - 72' 0" quartz-biotite-chlorite schist.
74' 10" - 79' 0"	Schist: quartz, biotite, chlorite; strongly pegmatized.
79' 0" - 89' 8"	Pegmatite: quartz, muscovite; some quartz-biotite-chlorite schist.
89' 8" - 113' 10"	Schist: dominantly quartz, chlorite; minor muscovite; some biotite; possibly very minor graphite; pyrite parallel to schistosity; some narrow veins of quartz-muscovite pegmatite; 105' 2" - 105' 10" quartz; 111' 5" - 112' 1" fine-grained chloritic basic (gabbro).
113' 10" - 116' 2"	Pegmatite: Quartz, muscovite, biotite.
116' 2" - 118' 2"	Probable gabbro: fine-grained; minor biotite; barren of sulfides.

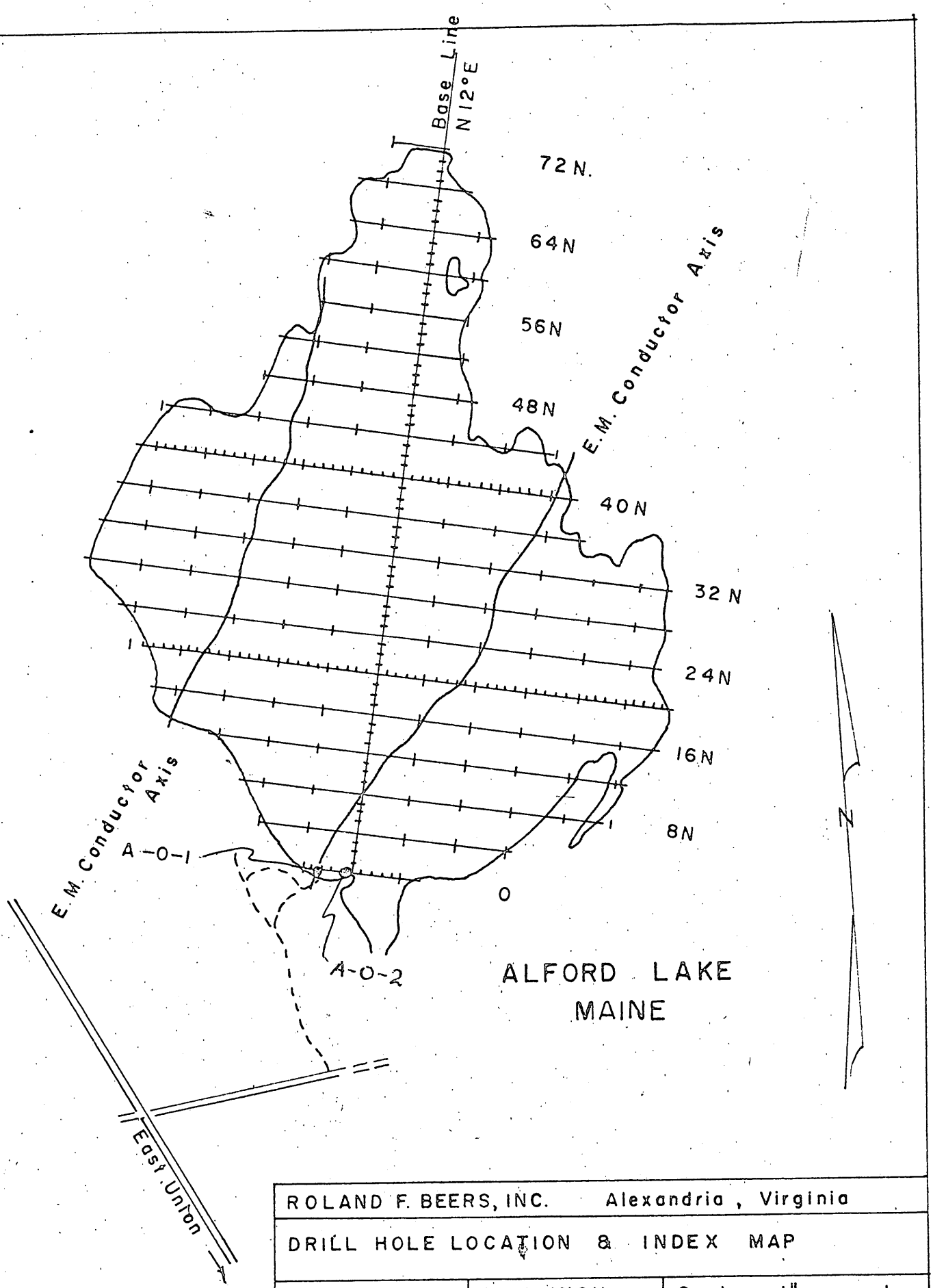
Depth	Lithology
118' 2" - 201' 9"	Schist: quartz, biotite, muscovite, chlorite; abundant quartz veins below 134', above 152'; sulfides disseminated in quartz (pyrite, possible pyrrhotite); schistosity angle 40° to 550; increase in quartz at 191'; increase in biotite lower 1'.
201' 9" - 256' 4"	Schist: quartz, biotite; numerous narrow pegmatite veins; quartz veins varying in thickness from 4" to 18"; schistosity angle 45° to 60°; disseminated sulfides (pyrite, possible pyrrhotite); decrease in sulfides (from 1%) below 230'; 239' 2" - 240' 1" probable gabbro, biotite-rich, fine-grained, 4" quartz on top and bottom.
256' 4" - 261' 0"	Pegmatite: quartz, muscovite; tourmaline (brown) noted.
261' 0" - 278' 8"	Schist: quartz, biotite; quartz veins present; some biotite schist; 266' 4" - 271' 11" quartz-muscovite pegmatite; 274' 8" - 278' 8" quartz-muscovite pegmatite.
278' 8" - 286' 0"	Limey schist: biotite, chlorite; serpentine; hornblend present top 6"; schistosity angle 50°.
286' 0" - 301' 0"	Dolomite and marble: generally grey; bands of limey schist; disseminated sulfide to 1%; 286' - 287' 6" serpentine or chlorite, probable ophicalcite.
301' 0" - 308' 0"	Schist: quartz, biotite; chlorite; minor graphite below 303'; bands of quartz-biotite schist.
308' 0" - 310' 1"	Quartz
310' 1" - 329' 2"	Limey schist: abundant quartz; bands of dolomite.
329' 2" - 376' 0"	Marble: generally white; minor serpentine present in zones; 370' 10" - 372' 0" probable fine-grained basic, barren of sulfides.
376' 0" - 378' 1"	Schist: quartz, biotite; fine-grained.
378' 1" - 408' 0"	Marble: generally white; 378' 1" - 378' 10" serpentine, minor calcite; 403' 3" - 404' 5" serpentine, minor calcite; 405' 5" - 408' 0" ophicalcite; caving in hole from zone (403' 3" - 405' 5") of serpentine; zone cemented.

Depth	Lithology
408' 0" - 410' 2"	Marble & dolomite: micaceous; thin veins of calcite.
410' 2" - 412' 10"	Marble & dolomite: impure; abundant serpentine.
412' 10" - 414' 10"	Schist: quartz, biotite; 413' 9" - 414' 10" quartz dominant; minor mica; trace of copper; minor pyrrhotite.
414' 10" - 426' 9"	Schist: quartz, biotite, chlorite; minor graphite; schistosity angle variable but generally 80°.
426' 9" - 429' 10"	Marble & dolomite: grey, impure.
429' 10" - 434' 8"	Schist & marble: micaceous; probable limey schist.
434' 8" - 440' 0"	Schist: quartz, biotite.
440' 0" - 456' 4"	Dolomite: finely divided FeS disseminated to 1%; narrow quartz-biotite schist inclusion at 441' 6".
456' 4" - 463' 2"	Schist & dolomite: some limey schist; 1% plus pyrrhotite at 458' to 459'.
463' 2" - 485' 9"	Marble & dolomite: impure.
485' 9" - 500' 0"	Schist: quartz, biotite; some mica schist; some limey schist; 490' 3" - 491' 2" quartz.
500' 0" - 501' 2"	Marble & dolomite:
501' 2" - 510' 0"	Schist: quartz, biotite; quartz in 2" to 6" veins; some marble present.

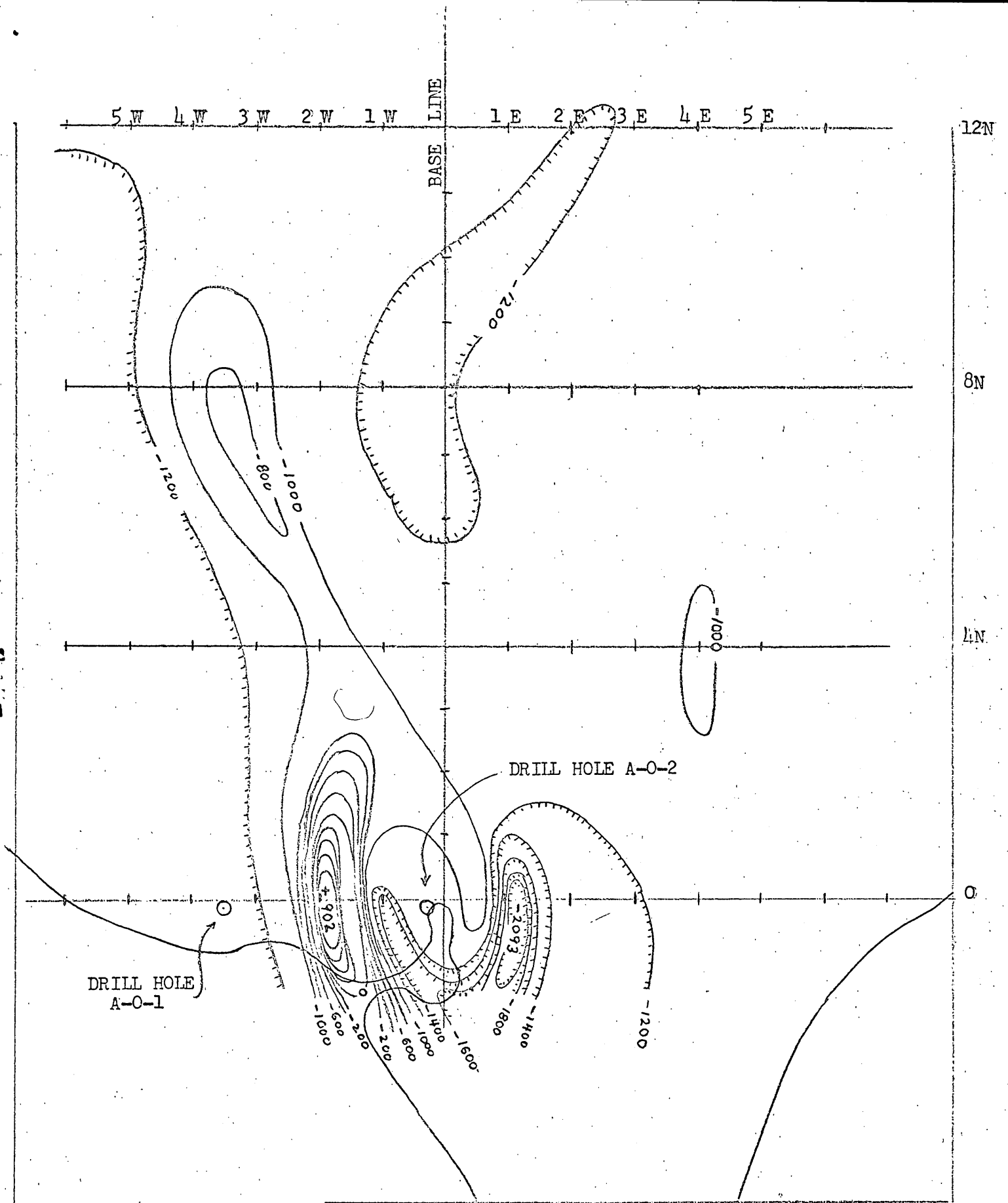
* * * * * * *

Total Depth 510' 0"

* * * * * * *



ROLAND F. BEERS, INC. Alexandria, Virginia		
DRILL HOLE LOCATION & INDEX MAP		
Twnp. HOPE	Co. KNOX	Scale 1" = 1320'



ROLAND F. BEERS, INC.		ALEXANDRIA, VIRGINIA
MAGNETIC SURVEY - ALFORD LAKE, MAINE Contour Interval - 200 gammas		
Twnp. HOPE	County KNOX	Scale: 1" = 200'

EXTRA COPY
O. M. E.
RECEIVED MAR 16
DATE

March 15, 1962

Mr. George C. Selfridge
Chief, Office of Field Operations
Office of Minerals Exploration
U. S. Department of the Interior
Washington 25, D. C.

Reference: Docket No. OME-6104
Contract No. 14-23-090-2123
Nickel
Knox County, Maine

Dear Mr. Selfridge:

In accordance with our telephone conversation this afternoon, I am enclosing three copies of the Assay Samples listing on Drill Hole E-50-1, which should have been included with our report to you for December, 1961.

Please accept our apologies for the inconvenience this omission has caused you.

Very truly yours,

ROLAND F. BEERS, INC.

Clifford F. Casey
Chief Physicist

CFC:am
Encls. (3)

ASSAY SAMPLES

Drill Hole: E-50-1

E-50-1-1	5	378' 0"	- 383' 0"		Ni, Cu
2	5	383' 0"	- 388' 0"		Ni, Cu
3	6	388' 0"	- 394' 0"		Ni, Cu
4	10	394' 0"	- 404' 0"		Ni, Cu, Co, Fe, S
5	9	404' 0"	- 413' 0"		Ni, Cu
6a	2.3	413' 0"	- 415' 3"		Ni, Cu
b	2.2	416' 8"	- 418' 11"		
c	2.5	420' 8"	- 423' 2"		
7a	1.4	415' 3"	- 416' 8"		Ni, Cu
b	1.8	418' 11"	- 420' 8"		
c	1.8	426' 4"	- 428' 0"		
8a	3.2	423' 2"	- 426' 4"		Ni,
b	1.5	428' 0"	- 429' 6"		
c	0.8	429' 6"	- 430' 4"		
d	2.0	430' 4"	- 432' 4"		
9a	0.8	432' 4"	- 433' 1"		Ni, Cu
b	0.7	434' 8"	- 435' 5"		
c	1.8	435' 5"	- 437' 3"		
10a	1.6	433' 1"	- 434' 8"		Ni, Cu
b	2.7	442' 10"	- 445' 6"		
11	5.6	437' 3"	- 442' 10"		Ni, Cu, Co, Fe, S
12	4.5	445' 6"	- 450' 0"		Ni, Cu
13	5.0	450' 0"	- 455' 0"		Ni, Cu
14	8.0	455' 0"	- 463' 0"		Ni, Cu, Co, Fe, S
15	8.2	463' 0"	- 471' 2"		Ni, Cu
16	5.8	471' 2"	- 477' 0"		Ni, Cu
17	5.6	477' 0"	- 482' 7"		Ni, Cu
18	0.7	482' 7"	- 483' 3"		Ni, Cu, S
19	6.3	493' 0"	- 499' 4"		Ni, Cu
20	5.0	499' 4"	- 504' 4"		Ni, Cu, Co, Fe, S
21	7.0	504' 4"	- 511' 4"		Ni, Cu, Co, Fe, S
22	7.8	518' 4"	- 526' 2"		Ni, Cu,

Because of the abundance of narrow pegmatite zones and variable sulfide content, many of the assay samples in this drill hole are grouped together according to rock type and sulfide content.

January 29, 1962

FILE COPY
O. M. E
RECEIVED JAN 30 1962
DATE | INITIALS | CODE
500

Mr. George C. Selfridge
Office of Minerals Exploration
Washington 25, D. C.

Reference: Docket No. OME-6104
Contract No. 14-23-090-2123
Nickel
Knox County, Maine

Dear Mr. Selfridge:

Enclosed you will find four copies each of:

MME Form 60,
Operator's Monthly Voucher for
Stages I and II

MME Form 61,
Operator's Progress Report for
Stages I and II

Narrative Report for Stage II

for the month of December, 1961 for the captioned contract.

Very truly yours,

ROLAND F. BEERS, INC.

John S. Bakos
Controller

JSB:ph

PROGRESS REPORT

December, 1961

Docket No.: OME - 6104
Commodity : Nickel
Contract No.: 14-23-090-2123
County: Knox
State: Maine

ROLAND F. BEERS, INC. ALEXANDRIA, VIRGINIA

TABLE OF CONTENTS

STAGE II DRILLING - DECEMBER, 1961

DRILL HOLE A-O-1

DRILL LOG

DRILL HOLE A-O-1

MAP SECTION

DRILL HOLE LOCATION AND INDEX MAP

DRILL HOLE CROSS SECTION - A-O-1

ASSAY REPORT

DRILL HOLE E-50-1

STAGE II DRILLING - DECEMBER, 1961

DRILL HOLE A-O-1

Drill Hole A-O-1 (Alford Lake No. 1) began on December 4 after transporting the drill by barge to the southwest side of Alford Lake. The drill hole was carefully surveyed by transit before the barge was secured over the hole, and was re-checked by transit as the drill was positioned.

The hole was collared at 0.16 South + 3.50 West on the ice-grid coordinates, immediately over an E. M. cross-over, and drilled vertically to a total depth of 491 feet. The elevation of the lake surface is logged as 269 feet above sea level and this elevation was accepted for the collar of the hole.

Two thick sections of lime rock, consisting mostly of marble and dolomite were cut from 62 feet through 114 feet and from 164 feet through 228 feet, all drill hole depths. The only basic rock cut in the hole was located below the second lime section from 228' 6" through 238' 0". This basic section was represented by a fine-grained peridotite, barren of sulfides, serpentinized to 232 feet drill hole depth; and characterized by an increase in biotite and basic feldspar with a decrease in pyroxene below 232 feet. Other sections of marble and dolomite were cut from 270 feet through 467 feet. The schist represented in the hole was dominantly quartz-biotite-chlorite with some sections of quartz-biotite schist intermittently included. Graphite was identified only in very minor amounts in the core; the extent being substantially less than that found in the wall rock of the Crawford Pond ore-body. Although sulfides were disseminated throughout the core they were represented mostly by pyrite and occassionally traces of chalcopyrite. The sulfides seldom exceeded -1% but occassionally were present to 2%.

The drill hole was terminated at a depth of 491 feet since a conductor had not been intersected. The hole was left open in case further investigation of the area of interest might suggest deepening the hole.

DRILL LOG

Hole No.:	A-O-1	Angle:	-90°
	Alford Lake No. 1	Bearing:	None
Location:	0.16 South + 3.5 West	Total Depth:	491'
	Alford Lake Ice Grid	Elevation:	269' - lake level
	Coordinates	Logged by:	D. E. Wyke
		12-4-61 to 12-31-61	

Drill Hole Data:

0' 0" - 33' 0"	Overburden - no core
33' 0" - 48' 0"	AX core
33' 0" - 48' 0"	Reamed through caving zone.
33' 0" - 48' 0"	AX casing and bit left in hole by request to keep hole open.
48' 0" - 491' 0"	AX core

Depth	Lithology
0' 0" - 5' 0"	Water
5' 0" - 33' 0"	Sand
33' 0" - 62' 1"	Schist: quartz, biotite, chlorite; minor graphite and associated pyrite parallel to schistosity; schistosity angle variable.
62' 1" - 64' 7"	Marble & Quartz: minor mica; minor disseminated sulfides (pyrite).
64' 7" - 65' 3"	Limey Schist: quartz, biotite, chlorite.
65' 3" - 79' 2"	Dolomite: bands of quartz and of quartz-biotite schist.
79' 2" - 81' 5"	Dolomite: top 14" serpentinized.
81' 5" - 101' 1"	Dolomite & Schist: quartz-biotite-chlorite schist; numerous 1" to 3" bands quartz; bands of schist, some limey; serpentine increase lower 3'; pyrite on fractures.
101' 1" - 114' 3"	Dolomite: fine-grained; talc and serpentine; veinlets of calcite.
114' 3" - 164' 0"	Schist: quartz-biotite & quartz-biotite-chlorite; some quartz veins; minor disseminated garnet adjacent to quartz veins; abundant calcite veins; minor graphite to 142'; broken core above 142' indicates fracture zone; quartz and muscovite in 6" to 18" zones below 142'; schistosity angle in quartz-biotite schist generally 55° to core axis; 145' 6" - 146' 2" serpentine abundant.

Depth	Lithology
164' 0" - 222' 6"	Marble: white; 171' 0" - 176' 0" core broken; 186' 0" - 200' 0" brown mica and serpentine present.
222' 6" - 228' 6"	Marble & Quartz: core broken; probably marble invaded by quartz; dominantly quartz below 223' 6".
228' 6" - 238' 0"	Basic section: peridotite and gabbro; barren of sulfides; serpentinized peridotite to 232'; increase in biotite and basic feldspar with decrease in pyroxene below 232'.
238' 0" - 244' 10"	Schist: quartz, biotite, hornblend; 242' 11" - 243' 11" quartz.
244' 10" - 255' 8"	Schist: dominantly quartz, biotite; 245' 5" - 247' 9" dolomitic.
255' 8" - 259' 5"	Pegmatite: quartz, biotite; 258' 8" - 259' 5" quartz-biotite schist.
259' 5" - 270' 4"	Schist: quartz, biotite, chlorite; very minor graphite; some serpentine parallel to schistosity; schistosity angle variable but generally 50° to core axis.
270' 4" - 273' 0"	Limey Schist: probably altered marble; fine-grained; dark-grey; minor hornblend present.
273' 0" - 274' 6"	Pegmatite: quartz, biotite; fine-grained.
274' 6" - 281' 4"	Marble: narrow bands containing biotite, serpentine and possible pyroxene; 274' 6" - 274' 10" biotite, serpentine; 274' 10" - 275' 3" marble; 275' 3" - 275' 10" biotite, serpentine; 275' 10" - 276' 7" marble; 276' 7" - 281' 4" serpentine, biotite, chloritic lower 2'.
281' 4" - 292' 0"	Schist: quartz, biotite; schistosity angle 50°.
292' 0" - 294' 3"	Schist: quartz, biotite; abundant calcite.
294' 3" - 307' 10"	Limey Schist: abundant quartz; banded with chlorite; disseminated sulfides to -1%; schistosity angle variable but generally 50°.
307' 10" - 313' 5"	Dolomite or Marble: minor serpentine.
313' 5" - 316' 6"	Schist: quartz, biotite; narrow quartz veins; schistosity angle 55°.

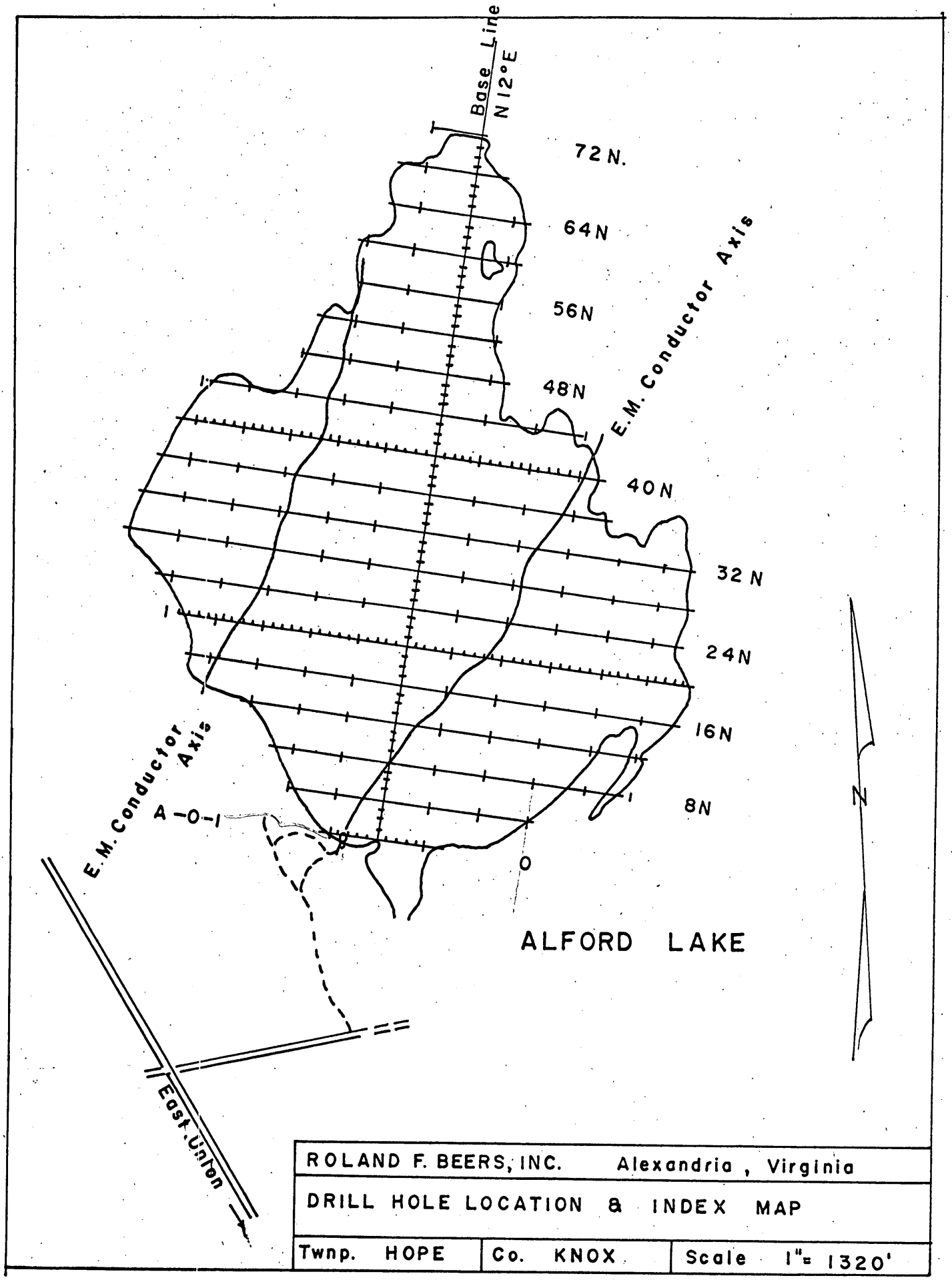
Depth	Lithology
316' 6" - 322' 2"	Marble: calcite and serpentine present; disseminated sulfides to 1% (pyrite, possible pyrrhotite); 320' 3" - 320' 8" biotite schist; 321' 4" - 322' 2" biotite schist.
322' 2" - 334' 5"	Limey Schist: probably dolomitic; micaceous; quartz present; disseminated sulfides 1% to 3% (pyrite, possible pyrrhotite); lower 4' dolomitic.
334' 5" - 348' 0"	Schist: quartz, biotite, muscovite; contains sulfides to 2% (pyrite, possible pyrrhotite).
348' 0" - 353' 4"	Schist: quartz, biotite; sulfides -1%; hornblend present with increase in lower 3'; schistosity angle generally 50°.
353' 4" - 369' 0"	Marble and Dolomite: 4" to 6" bands quartz-biotite schist; grades to fine-grained quartz-biotite schist lower 2'; occassional sulfides disseminated in marble and schist (pyrite, possible pyrrhotite); chlorite present lower 2 1/2'.
369' 0" - 394' 7"	Schist: quartz, biotite; fine-grained; chlorite present; sulfides to 1% parallel to foliation; section occassionally limey (probable calcite on fractures; 379' 8" - 381' 0" marble, brown mica and minor sulfides present, minor quartz.
394' 7" - 422' 6"	Marble: generally white.
422' 6" - 428' 6"	Schist: quartz, biotite; fine-grained; occassional quartz vein.
428' 6" - 437' 5"	Marble: generally white; becomes micaceous below 436'.
437' 5" - 440' 3"	Schist: quartz, biotite.
440' 3" - 448' 4"	Marble: talcose; tremolite present; occassional sulfides; minor quartz veins; feldspar crystals; 443' 8" - 445' 6" micaceous.
448' 4" - 458' 3"	Schist: quartz, biotite; fine-grained; grades to marble or dolomite lower 6".
458' 3" - 467' 2"	Marble: generally white.
467' 2" - 469' 6"	Schist: mica; minor quartz.
469' 6" - 478' 2"	Schist: quartz, biotite, chlorite; serpentine present; grades to quartz-biotite schist; lower 18" limey.

Depth	Lithology
478' 2" - 482' 3"	Marble: generally white.
482' 3" - 491' 0"	Schist: quartz, biotite; occassional sulfide crystal.

* * * * * * *

Total Depth 491' 0"

* * * * * * *


Base Line
N 12°E
72 N.
64N
56N
48N
40N
32 N
24N
16N
8N
E.M. Conductor Axis
E.M. Conductor Axis
A -0-1
0
ALFORD LAKE
N
East Union
ROLAND F. BEERS, INC. Alexandria, Virginia
DRILL HOLE LOCATION & INDEX MAP
Twnp. HOPE
Co. KNOX
Scale 1"= 1320'

Telephone EMpire 3-3302

Hand Sample Serial 26095-26116

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary

Salt Lake City 10, Utah

Mine Roland F. Beers, Inc.
P.O. Box 84
Rockpost, Maine

RESULTS PER TON OF 2000 POUNDS

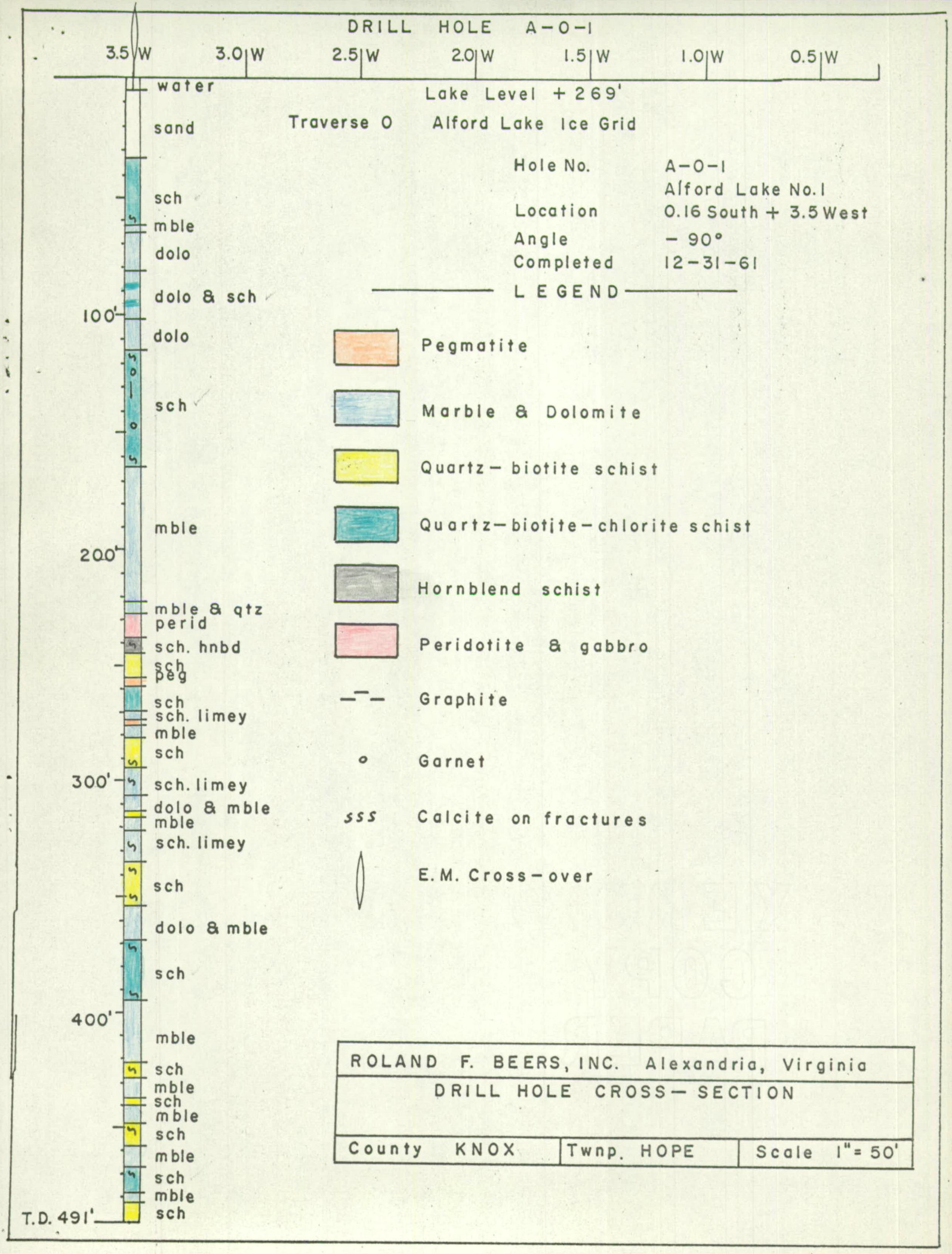
January 10, 1962

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Oro	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent Ni	Per Cent Co
	ft.										
E-50-1-1	5.0			0.315						0.162	
E-50-1-2	5.0	10'		0.081	0.198					0.174	0.168
E-50-1-3	6.0	6'		0.107						0.406	—
E-50-1-4	10.0			0.050			0.91	6.2		0.097	0.014
E-50-1-5	9.0			0.061						0.138	
E-50-1-6	7.0			[illegible]						0.109	
E-50-1-7	4.8			[illegible]						0.203	
E-50-1-8	7.5									0.020	
E-50-1-9	3.3			0.113						0.211	
E-50-1-10	4.3			0.056						0.060	
E-50-1-11	5.6			0.107			4.99	12.0		0.312	0.022
E-50-1-12	4.5			0.056						0.115	
E-50-1-13	5.0			0.144						0.251	
E-50-1-14	8.0			[illegible]			2.42	11.4		0.308	0.014
E-50-1-15	8.2			[illegible]						0.069	
E-50-1-16	5.8			[illegible]						0.125	
E-50-1-17	5.6			0.113						0.154	
E-50-1-18	0.7	8.93		[illegible]	0.084		0.03			0.130	0.149
E-50-1-19	6.3			0.037	[illegible]					0.028	
E-50-1-20	5.0			0.434			9.04	18.8		0.694	0.051
E-50-1-21	7.0			[illegible]056			1.13	8.2		0.134	0.014
E-50-1-22	7.8			0.220						0.079	0

Remarks

Charges $ 188.00

W. C. Wanlass


DRILL HOLE A-0-1
3.5 W
3.0 W
2.5 W
2.0 W
1.5 W
1.0 W
0.5 W
water
Lake Level + 269'
sand
Traverse 0
Alford Lake Ice Grid
Hole No. A-0-1
Alford Lake No. 1
Location 0.16 South + 3.5 West
Angle - 90°
Completed 12-31-61
sch
mble
dolo
dolo & sch
100'
dolo
sch
mble
200'
mble & qtz
perid
sch. hnbd
sch
peg
sch
sch. limey
mble
sch
300'
sch. limey
dolo & mble
mble
sch. limey
sch
dolo & mble
sch
400'
mble
sch
mble
sch
mble
sch
mble
sch
mble
T.D. 491'
sch
LEGEND
Pegmatite
Marble & Dolomite
Quartz-biotite schist
Quartz-biotite-chlorite schist
Hornblend schist
Peridotite & gabbro
Graphite
Garnet
Calcite on fractures
E.M. Cross-over
ROLAND F. BEERS, INC. Alexandria, Virginia
DRILL HOLE CROSS-SECTION
County KNOX
Twnp. HOPE
Scale 1" = 50'

ROLAND F. BEERS, INC.
POST OFFICE BOX 23
ALEXANDRIA, VIRGINIA

TELEPHONE
KING 9-2910

OFFICE
2520 OAKVILLE STREET

December 30, 1961

Mr. George C. Selfridge
Office of Minerals Exploration
Washington 25, D. C.

OFFICIAL FILE COPY
O. M. E.
RECEIVED JAN 2 1962

DATE	INITIALS	CODE
1/4/62	[illegible]	120
		500

Reference: Docket No. OME-6104
Contract No. 14-23-090-2123
Nickel
Knox County, Maine

Dear Mr. Selfridge:

Enclosed you will find four copies each of:

MME Form 60,
Operator's Monthly Voucher for
Stages I and II

MME Form 61,
Operator's Progress Report for
Stages I and II

Narrative Report for Stage II

for the month of November, 1961 for the captioned contract.

Very truly yours,

ROLAND F. BEERS, INC.

John S. Bakos

John S. Bakos
Controller

JSB:am
Enclosures

PROGRESS REPORT

November, 1961

Docket No.: OME - 6104
Commodity : Nickel
Contract No.: 14-23-090-2123
County: Knox
State: Maine

ROLAND F. BEERS, INC. ALEXANDRIA, VIRGINIA

TABLE OF CONTENTS

STAGE II DRILLING - NOVEMBER, 1961

DRILL HOLE E - 50 - 1

SAMPLE STUDY

DRILL LOG

DRILL HOLE E - 50 - 1

ASSAY REPORT

DRILL HOLE E - 55 - 3 STAGE II

STAGE II DRILLING - NOVEMBER, 1961

The negative results of Drill Hole E-48-1 (-90°) on Traverse 48 South of the Crawford Pond Ice Grid (48 South + 4.60 East) created the need for a general picture of the ore-body between Traverses 42 South and 52 South. A low angle hole (-41°) was designed to be drilled from the eastern shoreline at 6.88 East on Traverse 50 South to provide this information. This Drill Hole was designated as E-50-1 and was drilled on a bearing of N. 72°W.

shore

Considerable difficulty was experienced in securing the drill hole. Although the bit entered bedrock at 1 foot of depth, the plunge of the lake bottom exposed the drill rods at a depth of 45 feet. While attempting to reach bedrock again the drill rods broke. Attempts to retrieve approximately 60 feet of rods resulted in a second set of rods being locked in the hole. The collar of the hole was moved directly east approximately 8 inches and another hole drilled. The second hole cut sand and boulders at 45 feet 6 inches, penetrated to bedrock at 75 feet, and casing was set to 77 feet, all drill hole depths, to secure the hole.

Exceptionally thick sections of limey schist, garnet schist, marble and dolomite were cut with very little pegmatite encountered above the peridotite section. Once the peridotite section was reached, pegmatite represented a substantial percentage of the core. Peridotite and pegmatite were alternately cut from 380 feet to 531 feet drill hole depths. Narrow gabbroic sections were also cut to a depth of 542 feet.

The mineralization in the basic rock section was generally low except for the zone immediately below 499 feet and in general the mineralization was not uniform. Samples for assay were taken throughout the section. Because of the variation in mineralization and the numerous pegmatites, some samples were combined to group the pegmatites together.

The drill hole was stopped at 565 feet drill hole depth after cutting 24 feet of schist at the bottom.

SAMPLE STUDY

In addition to the sample study carried on throughout the entire grid from Traverse 4 North to Traverse 64 South, samples have been selected from subsequent drill holes. Included drill holes are E-55-2, E-55-3, and E-50-1. This additional sampling may delay the final report on the analysis being carried on by Robert S. Young in Charlottesville, Virginia.

DRILL LOG

Hole No.: E-50-1
Location: 49.90 S. + 6.88 E.
Crawford Pond
Ice Grid
Coordinates

Angle: -41°
Bearing: N. 72° W.
Depth: 565'
Elevation: 120' above sea level
Logged by: D. E. Wyke
11/1/61 to 11/30/61

Drill Hole Data:

0' 0"	- 1' 0"	Overburden - no core
1' 0"	- 77' 0"	AX casing and casing bit left in hole by request
1' 0"	- 77' 0"	Reamed for AX casing
1' 0"	- 45' 6"	AX core
45' 6"	- 75' 0"	Sand and boulders - no core except of boulders
75' 0"	- 565' 0"	AX core 12 hours cementing and drilling out cement in caving zones.

Depth		Lithology
0' 0"	- 1' 0"	Overburden, no core
1' 0"	- 27' 9"	Schist: quartz, biotite; strong pegmatization; occasional disseminated pyrrhotite; 17' 2" - 17' 9" biotite schist.
27' 9"	- 38' 2"	Pegmatite: quartz with abundant biotite lower 5'; quartz veins present.
38' 2"	- 45' 6" plus	Schist: quartz, biotite; disseminated garnet.
45' 6"	- 75' 0" minus	Schist: chlorite; serpentine present; minor calcite.
75' 0"	- 90' 8"	Pegmatite: quartz, biotite.
90' 8"	- 102' 5"	Schist: quartz, biotite; schistosity angle 60o.
102' 5"	- 138' 2"	Schist: quartz, biotite; schistosity angle increases to 80°; fine-grained; calcite on fractures.
138' 2"	- 142' 2"	Schist: hornblend, biotite; minor chlorite and serpentine.
142' 2"	- 146' 6"	Schist: quartz, biotite; angle 80°.
146' 6"	- 148' 10"	Schist: garnet; limey.
148' 10"	- 153' 7"	Pegmatite: quartz, biotite, muscovite.
153' 7"	- 157' 0"	Schist: quartz, biotite; calcite on fractures.
157' 0"	- 164' 2"	Altered dolomite: dolomite, serpentine; minor garnet; calcite on fractures; top 15" narrow bands of quartz-biotite schist and biotite schist.

Depth	Lithology
164' 2" - 166' 10"	Schist: quartz, biotite; angle 70°.
166' 10" - 169' 3"	Limey schist: calcite, biotite, chlorite; minor garnet.
169' 3" - 173' 5"	Limey schist: garnet; bands of biotite and quartz.
173' 5" - 176' 6"	Limey schist: micaceous; narrow bands of hornblend schist.
176' 6" - 188' 4"	Schist, limey: garnet; numerous bands of calcite; bands of hornblend and serpentine; 183' 5" - 184' 7" chlorite, serpentine, hornblend, angle generally 75° to 80°.
188' 4" - 191' 8"	Schist: quartz, biotite; calcite on fractures; abundant biotite; 191' 0" - 191' 8" marble.
191' 8" - 206' 1"	Schist: quartz, biotite; calcite on fractures; abundant biotite.
206' 1" - 210' 7"	Marble: impure; mica and garnet present; 208' 3" - 208' 7" garnet schist.
210' 7" - 211' 11"	Schist: garnet, limey.
211' 11" - 213' 0"	Marble and dolomite: bands of garnet schist.
213' 0" - 260' 8"	Schist: garnet; narrow bands of quartz and of calcite; narrow bands of biotite; abundant serpentine present; angle generally 60° to 80°.
260' 8" - 262' 11"	Schist: quartz, biotite; calcite veins.
262' 11" - 272' 3"	Schist: quartz, biotite, chlorite; minor graphite; minor calcite veins; angle 60° to 70°.
272' 3" - 313' 5"	Schist: quartz, biotite, chlorite; graphite to 2% parallel to schistosity; serpentine localized in 2" to 8" zones; decrease in graphite and increase in disseminated garnet below 285'; angle variable but generally 65°; occasional pyrrhotite and copper parallel to schistosity in serpentine zones.
313' 5" - 322' 4"	Schist: dominantly mica and garnet; veins of calcite; serpentine present.
322' 4" - 341' 10"	Limey schist: serpentine, garnet, calcite veins; calcite on fractures; graphite to 2%; 1" to 2" quartz veins; schistosity angle generally 70°.

Depth	Lithology
341' 10" - 346' 0"	Schist: hornblend; minor garnet; calcite on fractures.
346' 0" - 348' 3"	Schist: quartz, biotite; fine-grained.
348' 3" - 349' 4"	Pegmatite: quartz, biotite.
349' 4" - 351' 5"	Altered gabbro: hornblend, biotite, pyroxene, basic feldspar; 6" band quartz-biotite schist in center of section.
351' 5" - 355' 1"	Schist: quartz, biotite, chlorite; minor graphite; garnet parallel to schistosity; minor pyrite parallel to schistosity; schistosity angle generally 75°.
355' 1" - 356' 5"	Schist: quartz, hornblend, biotite.
356' 5" - 361' 4"	Schist: quartz, biotite, chlorite; serpentine; finely banded; garnet and minor pyrite parallel to schistosity; minor graphite; angle generally 75°; 360' 5" - 361' 4" hornblend-biotite schist.
361' 4" - 366' 3"	Schist: quartz, biotite; 361' 4" - 361' 10" biotite schist.
366' 3" - 368' 4"	Marble or dolomite: pegmatized; narrow vein of pyrrhotite at 366' 4".
368' 4" - 370' 11"	Schist: quartz, biotite.
370' 11" - 375' 12"	Schist: hornblend, biotite; biotite-rich lower 6"; calcite and pyrite in fractures; 371' 9" - 372' 2" quartz vein;
375' 12" - 380' 2"	Schist: quartz, biotite, serpentine; minor chlorite; pyrite on fractures; 2'-04" 377' 10" - 380' 2" schist contains sulfides to 25% including high copper; 379' increase in serpentine and biotite with decrease in quartz.
380' 2" - 408' 0" - 28'	Peridotite: anthophyllite, chlorite, biotite, pyroxene; biotite-rich top 6"; sulfides generally less that 15%: 380' 2" - 384' 0" sulfides 15%; 384' 0" - 392' 1" sulfides 15%, increase in chlorite; 392' 1" - 393' 8" sulfides 25%, increase in pyroxene; 393' 8" - 408' 0" sulfides 10% to 15%.
408' 0" - 411' 10"	Pegmatite: quartz, biotite; biotite-rich top 10"; generally 10% sulfides;

Depth		Lithology
411' 10" - 413' 0"		Peridotite: pyroxene, chlorite; sulfides 15%.
413' 0" - 415' 3"		Pegmatite: quartz, biotite; 5% sulfides top 12".
415' 3" - 416' 8"		Peridotite: pyroxene, chlorite, minor anthophyllite; biotite-rich lower 1"; sulfides 10% to 15%.
416' 8" - 418' 11"		Pegmatite: quartz, biotite; sulfides 2% to 5%.
418' 11" - 420' 8"		Peridotite: pyroxene, chlorite; biotite-rich top and bottom; sulfides 5% to 10%.
420' 8" - 423' 2"		Pegmatite: quartz, biotite; sulfides 2%.
423' 2" - 426' 4"		Quartz: barren.
426' 4" - 428' 0"		Peridotite: pyroxene, chlorite; biotite-rich top and bottom; sulfides 2%.
428' 0" - 429' 6"		quartz: barren.
429' 6" - 430' 4"		Peridotite: pyroxene, chlorite, biotite;barren.
430' 4" - 432' 4"		Pegmatite: quartz, biotite.
432' 4" - 433' 1"	9"	Peridotite: talc, anthophyllite;sulfides 20%.
433' 1" - 434' 8"		Pegmatite: quartz, biotite; sulfides 2% to 3%.
434' 8" - 435' 5"	9"	Peridotite: talc, chlorite, anthophyllite; sulfides 10% to 15%.
435' 5" - 437' 3"		Pegmatite: quartz, biotite; inclusion of peridotite parallel to core axis with sulfides 5% to 10%.
437' 3" - 439' 6"	2'-0"	Peridotite: talc, chlorite, anthophyllite; sulfides 20% to 25%.
439' 6" - 440' 1"		Pegmatite: quartz, biotite; sulfides 2% to 4%.
440' 1" - 442' 10"	2'-0"	Peridotite: talc, chlorite, anthophyllite; sulfides to 15%.
442' 10" - 445' 6"		Pegmatite: sulfides 1%.
445' 6" - 452' 4"		Peridotite: talc, chlorite, anthophyllite; 10% sulfides to 452' 0"; lower 4" biotite-rich and barren.
452' 4" - 463' 0"	10'-0"	Peridotite: chlorite, pyroxene; sulfides 15% to 20%.

Depth	Lithology
463' 0" - 471' 3"	Peridotite: chlorite, anthophyllite; sulfides 5%; 463' 0" - 463' 3" quartz-biotite pegmatite; 464' 2" - 464' 7" quartz-biotite pegmatite; 465' 4" - 466' 6" quartz-biotite pegmatite; 469' 2" - 469' 8" quartz-biotite pegmatite; 469' 8" - 471' 3" biotite-rich.
471' 3" - 482' 7"	Peridotite: talc, chlorite; sulfides 2% to 5%.
482' 7" - 493' 3"	Quartz: top 6" contains possible NiS.
493' 3" - 499' 5"	Gabbro: fine-grained; biotitic; very minor sulfide: 493' 7" - 493' 11" quartz vein; 494' 5" - 494' 7" quartz vein; 498' 2" - 499' 0" quartz-biotite pegmatite.
499' 5" - 511' 6"	Peridotite: chlorite, pyroxene; sulfides to 50%; 5'-08 499' 5" - 504' 8" sulfides 50% with high copper; 2"-11" 504' 8" - 507' 7" sulfides 25%; 1'-0" 507' 7" - 508' 7" sulfides 30%; 508' 7" - 509' 3" quartz vein with biotite; 509' 3" - 511' 6" sulfides 10%.
511' 6" - 515' 10"	Pegmatite: quartz, biotite.
515' 10" - 516' 9"	Gabbro: fine-grained and biotitic.
516' 9" - 518' 8"	Pegmatite: quartz, biotite.
518' 8" - 530' 10"	Peridotite: fine-grained with biotite and chlorite except for top 15" of coarse-grained chlorite peridotite; generally less than 2% sulfides finely disseminated; 520' 8" - 521' 3" sulfides 5%; 524' 8" - 525' 8" quartz-biotite schist with veins of pyrrhotite and high copper; 530' 2" - 530' 5" quartz vein with 2% sulfide; lower 18" of section increase in biotite.
530' 10" - 538' 2"	Gabbro: fine-grained; biotitic; minor sulfide.
538' 2" - 540' 6"	Schist: mica and quartz; finely divided sulfides to 3% parallel to schistosity.
540' 6" - 541' 6"	Gabbro: fine-grained; minor sulfides.
541' 6" - 544' 5"	Schist: quartz, biotite; fine-grained; contains 2% pyrrhotite parallel to schistosity; pyrite on fractures.
544' 5" - 565' 0"	Schist: quartz, biotite; some chlorite and serpentine; minor graphite; minor sulfide (5%) to 546' 3" with high copper; 550' 0" - 552' 10" quartz-biotite pegmatite; schistosity angle 45° to core axis.

* * * * * * *

Total Depth 565' 0"

* * * * * * *

TELEPHONE EM 3-3302

Hand Sample Serial 26189-93

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Roland F. Beers, Inc.
Box 84
Rockport, Maine

RESULTS PER TON OF 2000 POUNDS

November 27, 1961

NO.	GOLD Ozs. per Ton	SILVER Ozs. per ton	LEAD Per Cent Wet	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent Ni	Per Cent Co	VALUE GOLD
E-55-3-1				0.113			5.03	11.4		0.316	0.022	5'
E-55-3-2				0.220			6.06	13.4		0.375	0.014	5'
E-55-3-3				0.441			10.36	19.8		0.613	0.036	5'
E-55-3-4				0.522			7.89	14.6		0.447	0.029	5'
E-55-3-5				0.233			14.29	26.4		0.845	0.058	6.'
				0.303				17.5		0.532		26.0

Remarks

Charges $ 77.50

W. C. Wanlass

ROLAND F. BEERS, INC.
POST OFFICE BOX 23
ALEXANDRIA, VIRGINIA

TELEPHONE
KING 9-2910

OFFICIAL FILE COPY
O. M. E
RECEIVED NOV 24 1961

DATE	INITIALS	CC.
11-24	gad	VVO
		~~VVO~~

OFFICE
2520 OAKVILLE STREET

November 21, ~~1961~~

Mr. George C. Selfridge
Office of Minerals Exploration
Washington 25, D. C.

Reference: Docket No. OME-6104
Contract No. 14-23-090-2123
Nickel
Knox County, Maine

Dear Mr. Selfridge:

Enclosed you will find four copies each of:

MME Form 60,
Operator's Monthly Voucher for
Stages I and II

MME Form 61,
Operator's Progress Report for
Stages I and II

Narrative Report for Stages I and II

For the month of October, 1961 for the captioned contract.

Very truly yours,

ROLAND F. BEERS, INC.

John S. Bakos

John S. Bakos
Controller

JSB:ph
Enclosures

OFFICIAL FILE COPY
O. M. E.
RECEIVED NOV 24 1961

DATE	INITIALS	CODE

E-55-2
E-55-3

PROGRESS REPORT

October, 1961

Docket No.: OME - 6104
Commodity : Nickel
Contract No.: 14-23-090-2123
County: Knox
State: Maine

Roland F. Beers, Inc. Alexandria, Virginia

TABLE OF CONTENTS

GENERAL INFORMATION

STAGE I DRILLING - OCTOBER, 1961

Drill Hole E-55-2

Drill Hole E-55-3

DRILL LOGS

Drill Hole E-55-2

Drill Hole E-55-3

ASSAY REPORT

Drill Hole E-55-2

GENERAL INFORMATION

Through September geophysical data dominated the designing of drill holes on Crawford Pond. This was the expected procedure during the Stage I program. By October sufficient cross-sectional information was obtained to supplement the geophysical data and significantly help guide the program.

The October drilling provided a crosssection view of the ore-body in the center of the area of interest with the successful holes E-55-2 and E-55-3. It is expected that with this information the ore-body can be extended and deliniated beyond the present limits represented by Traverses 62 South and 52 South with a high probability of success.

STAGE I DRILLING - OCTOBER, 1961

Drill Hole E-55-2

This drill hole was collared on shore on Traverse 55 South and drilled at an angle of -45° on a bearing of N. 72° W. This hole represents the second of three drill holes designed to give a cross-sectional view of the ore-body on Traverse 55 South. | Shore

A 66 foot basic section was cut from 315' 4" to 380' 11" drill hole depths. The central peridotite zone extended 50 feet from 323' 1" to 372' 9" drill hole depths. The basic rock enclosing the periodotite on top and bottom was generally a fine-grained gabbro containing sulfides to 2% on top and to 5% on the bottom. The peridotite was characteristically a pyroxene-chlorite basic with sulfides ranging from 25% to 40%, the highest quantity of sulfides occupying the lower part of the zone.

The schist below the lower gabbro was highly mineralized from 380' 11" to 385' 6" extending the significantly mineralized section from 323' 1" to 385' 6" for a total of 62' 5".

Twelve assays were cut from 321' 1" through 385' 7". All assay determinations are for nickel, copper, and sulfur; six of the assays include determinations for cobalt and iron.

Drill Hole E-55-3

This drill hole was collared at the same location as E-55-2 and drilled on the same bearing at an angle of -77°. Essentially, the basic section extended intermittently from 303' 0" to 440' 2" drill hole depths. Since the rocks at 459 feet still contained significant amounts of pyroxene, the total depth of 461 feet is not believed to represent the bottom of the entire basic section. The drill hole was stopped at 461 feet because there was sufficient evidence that the main conductor was cut. | Shore

The pyroxene-chlorite peridotite contained sulfides to 50% and was significantly mineralized from 367 feet to 390 feet drill hole depths. The zone was not as thick or highly mineralized as the zone in Drill Hole E-55-1 (-60°), but the assay returns are expected to show the high nickel values characteristic of this area.

DRILL LOG

Hole No.:	E-55-2	Angle:	-45°
Location:	54.9 S + 5.65 E Crawford Pond Ice Grid - Coordinates	Bearing:	N 72° W
		Depth:	420' 0"
		Elevation:	120' above sea level
		Logged by:	D. E. Wyke October 1 to 15, 1961

Drill Hole Data:

0' 0" - 10' 0"	AX casing - left in hole by request.
0' 0" - 10' 0"	Overburden, no core.
10' 0" - 420' 0"	AX core

Depth	Lithology
0' 0" - 10' 0"	Overburden
10' 0" - 13' 3"	Schist: quartz, biotite; strong pegmatization; variable schistosity angle.
13' 3" - 19' 8"	Pegmatite: quartz with abundant biotite.
19' 8" - 27' 2"	Mica Schist: biotite; soft, represents 60% core loss.
27' 2" - 49' 8"	Schist: quartz, biotite; variable chlorite; 4" to 6" veins quartz-biotite pegmatite.
49' 8" - 58' 1"	Limey schist: abundant mica.
58' 1" - 59' 2"	Schist: biotite; minor quartz; section is fine-grained; veinlets of calcite.
59' 2" - 68' 3"	Pegmatite: quartz, biotite; abundant feldspar.
68' 3" - 79' 0"	Dike: probably altered gabbro; minor biotite; serpentine; basic feldspar; possible olivine; very minor calcite; thin veins quartz.
79' 0" - 80' 8"	Pegmatite: dominantly quartz; minor biotite.
80' 8" - 83' 1"	Dike: probably altered gabbro; minor biotite; serpentine; basic feldspar; possible olivine; very minor calcite; quartz-biotite pegmatite veins lower 8".
83' 1" - 85' 7"	Pegmatite: quartz, biotite.

Depth	Lithology
85' 7" - 88' 2"	Schist: quartz, biotite; fine-grained; no schistosity.
88' 2" - 94' 10"	Schist: quartz, biotite; 88'2" - 88'4" quartz vein; 89' schistosity angle 55°; 92' schistosity angle 35°.
94' 10" - 98' 0"	Schist: hornblend; abundant biotite; minor quartz; schistosity angle variable but generally 45° to 50°; 96'9" - 97'4" quartz-biotite schist.
98' 0" - 113' 10"	Schist: quartz, biotite; schistosity angles: 98'0" - 101'6" angle 0° in drag; 101'6" - 102'0" angle 30°; 102' - 104' angle variable in drag; 104' - 106' angle 30°; 106' - 114' angle variable.
113' 10" - 115' 6"	Limey schist: abundant mica.
115' 6" - 118' 5"	Schist: quartz, biotite; minor calcite.
118' 5" - 145' 0"	Marble: micaceous; soft; broken core.
145' 0" - 170' 4"	Limey schist: micaceous; some 4" to 8" zones micaceous marble; soft; broken core.
170' 4" - 171' 10"	Limey schist: garnet; schistosity angle 50°.
171' 10" - 185' 9"	Limey schist: mica, serpentine, abundant disseminated garnet; chloritic to 183' in some zones; abundant calcite veins; schistosity angle: 178' angle 35° to 45°; 181' angle 52°.
185' 9" - 187' 2"	Marble: white.
187' 2" - 210' 0"	Limey schist: mica, serpentine, abundant disseminated garnet; schistosity angle: 191' angle 55°; 203' angle 60°.
210' 0" - 233' 6"	Schist: serpentine; disseminated garnet; micaceous; calcite veins; graphite to 2% in some zones.

Depth	Lithology
233' 6" - 241' 8"	Schist: chlorite; serpentine and biotite in 1" to 2" zones; graphite to 1%.
241' 8" - 269' 10"	Schist: chlorite; serpentine, disseminated garnet; graphite 2%.
269' 10" - 273' 9"	Schist: quartz, biotite; disseminated garnet.
273' 9" - 278' 3"	Schist: quartz, muscovite, chlorite; minor serpentine; graphite to 2%; schistosity angle generally 55°.
278' 3" - 284' 8"	Schist: quartz, biotite; fine-grained; 279' 11" increase in biotite.
284' 8" - 287' 6"	Schist: mica; minor quartz.
287' 6" - 291' 9"	Schist: quartz, biotite; fine-grained.
291' 9" - 306' 10"	Schist: quartz, biotite, chlorite; veins of quartz; caving 298'9"-302'6", cemented.
306' 10" - 312' 8"	Schist: hornblend; biotite; disseminated garnet; top 12" dominantly fine-grained biotite schist.
312' 8" - 315' 4"	Schist: quartz, chlorite; minor biotite and hornblend.
315' 4" - 323' 1"	Gabbro: sulfides -1%.
323' 1" - 346' 3"	Peridotite:? generally proxene and chlorite; zones with serpentine and biotite; some zones with talc-anthophylli 323'1" - 323'3" biotite & pyroxene, barren; 323'3" - 323'5" serpentine and biotite, barren; 9" 323'5" - 324'2" sulfides 25%; 1 10" 324'2" - 325'0" serpentine and biotite; barren; 14'4" 325'0" - 339'4" sulfides to 30%; 7' 339'4" - 346'3" sulfides to 20%; generally 15% to 20%.

Depth			Lithology
346' 3"	-	347' 3"	1' Pegmatite: quartz, biotite; barren of sulfides.
347' 3"	-	358' 8"	11'-5" Peridotite: pyroxene and chlorite; minor anthophyllite; sulfides 25% to 30%.
358' 8"	-	365' 5"	6'-9" Dike: hornblend and biotite; few veins of quartz; minor pyroxene; sulfides 1%.
365' 5"	-	370' 5"	Pegmatite: quartz, biotite; 365' 9" - 365'11" sulfides 10%; 1 365'11" - 367' 0" semi-massive sulfides; 3 367' 0" - 368' 9" sulfides 10%; 1' 368' 9" - 369' 9" barren; 9 6" 369' 9" - 370' 3" biotite-rich, sulfides 10%; 2" 370' 3" - 370' 5" quartz vein.
370' 5"	-	372' 9"	10 2'-4" Peridotite: pyroxene and chlorite; sulfides 35% to 40%.
372' 9"	-	375' 5"	2'-9" Schist: biotite-rich; quartz present; sulfides to 5%.
375' 5"	-	378' 10"	11 3'-5" Pegmatite: quartz, biotite; fine-grained; sulfides 1% to 2%.
378' 10"	-	380' 11"	2'-1" Gabbro: biotite-rich; sulfides 5%.
380' 11"	-	385' 6"	Schist: host rock not obvious; 380'11" - 382'2" sulfides 2% to 5%; 12 4'-7" 382' 2" - 383'5" massive sulfides; 383' 5" - 384'0" semi-massive sulfides; 384' 0" - 384'6" sulfides 5%; 384' 6" - 385'6" semi-massive sulfides.
385' 6"	-	387' 8"	Pegmatite: dominantly quartz with 1" to 2" bands of biotite schist; sulfides 1%.
387' 8"	-	392' 2"	Schist: quartz, biotite, chlorite; graphite to 2%; abundant serpentine; schistosity angles: 388' angle 35°; 390' angle 40°; 392' angle 45°; 394' angle 50°.

385-07
365-11
19-68"

385-6
366.0
19.6

358.9
321.1
37.6

Hole E-55-2

October vouchers & report.

Hole & Samples	Cu	S	Fe	Ni	Co		
55-2-1	0.107	5.09		0.337		4'	37.5' ft ave.
✓ 2	0.207	7.50	16.6	0.430	0.088	5'	0.190 Cu 0.455 Ni
✓ 3	0.170	8.47	18.8	0.548	0.058	6.5'	
✓ 4	0.119	3.71		0.244		4'	
✓ 5	0.270	9.26		0.532		4'	
✓ 6	0.107	5.89	14.0	0.333	0.073	4.5'	Fe 14.0' ave
✓ 7	0.156	11.64	24.0	0.727	0.058	5.0'	18.15%
✓ 8	0.387	7.11	15.8	0.394	0.066	4.5'	
							73 ft. ~~bris~~ sample
✓ 9	0.170	7.16		0.402		4.5	19.5 ft ave.
✓ 10	0.321	9.40		0.394		2.0	0.338 Cu 0.429 Ni
✓ 11	0.504	2.47		0.138		6.0	
✓ 12	0.308	11.88	23.8	0.707	0.058	7.0	

Depth	Lithology
392' 2" - 420' 0"	Schist: chlorite; quartz present; graphite to 4% to 395' then generally 2% to bottom of section; 2" to 6" zones of serpentine-rich core in top 3'; minor pyrite parallel to foliation; 414'0" - 414'10" quartz vein.

* * * * * * * *

Total Depth 420' 0"

* * * * * * * *

Assays:

E-55-2-1	4'	321'1"	- 325'0"	Ni, Cu, S.33
E-55-2-2	5'	325'0"	- 330'0"	Ni, Cu, S, Co, Fe
E-55-2-3	6½	330'0"	- 336'6"	Ni, Cu, S, Co, Fe
E-55-2-4	4'	336'6"	- 340'4"	Ni, Cu, S
E-55-2-5	4'	340'4"	- 344'6"	Ni, Cu, S
E-55-2-6	4½	344'6"	- 349'0"	Ni, Cu, S, Co, Fe
E-55-2-7	5'	349'0"	- 354'0"	Ni, Cu, S, Co, Fe
E-55-2-8	4½	354'0"	- 358'8"	Ni, Cu, S, Co, Fe
E-55-2-9	4½	365'11"	- 370'5"	Ni, Cu, S
E-55-2-10	2'	370'5"	- 372'9"	Ni, Cu, S
E-55-2-11	5'	372'9"	- 378'10"	Ni, Cu, S
E-55-2-12	4'	378'10"	- 385'7"	Ni, Cu, S, Co, Fe

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.

DRILL LOG: E-55-3

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°.

* * * * * * *

Total Depth 461' 0"

* * * * * * *

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"

OFFICIAL FILE COPY
O. M. E.
RECEIVED OCT 12 1961

DATE	INITIALS	CODE

PROGRESS REPORT

September, 1961

Docket No. : OME-6104

Commodity : Nickel

Contract No. : 14-23-090-2123

County : Knox

State : Maine

ROLAND F. BEERS, INC. ALEXANDRIA, VIRGINIA

No work was done during September, 1961 by the Operator involving drilling or exploration in either Stage I or Stage II of its contract with the Office of Minerals Exploration.

During September, 1961 the Operator was engaged in obtaining large samples of ore for laboratory tests.

OFFICIAL FILE COPY
O. M. E
RECEIVED SEP 26 1961

DATE	INITIALS	CODE

E-64-2
E-48-1

PROGRESS REPORT

August, 1961

Docket No.: OME - 6104
Commodity: Nickel
Contract No.: 14-23-090-2123
County: Knox
State: Maine

Roland F. Beers, Inc. Alexandria, Virginia

TABLE OF CONTENTS

GENERAL INFORMATION

STAGE I DRILLING - August, 1961

Drill Hole E-64-2

STAGE II DRILLING - August, 1961

Drill Hole E-48-1

DISCUSSION

DRILL LOGS

Drill Hole Log E-64-2

Drill Hole Log E-48-1

ASSAY DATA

Drill Hole E-64-2, Hand Sample Serial 19690

MAP SECTION

Cross Section Drill Hole E-64-2

Cross Section Drill Hole E-48-1

GENERAL INFORMATION

At the end of the month of August, 1961 a total of 2,915 feet 6 inches have been drilled. The last 399 feet of this drilling is part of the Stage II program. This data is listed as follows:

Drill Hole	Date	Drill Hole Depth	Stage
E-60-2	5/1/61 to 5/13/61	420'	I
E-52-2	5/14/61 to 5/31/61	420'	I
E-55-1	6/1/61 to 6/10/61	363'	I
E-64-1	6/11/61 to 6/30/61	550'	I
E-62-1	7/1/61 to 7/18/61	364'	I
E-64-2	7/19/61 to 8/9/61	399' 6"	I
E-48-1	8/10/61 to 8/26/61	399'	II
	Total	2,915' 6" OK 399 2,516-6"	

STAGE I DRILLING - August, 1961

Drill Hole E-64-2

This drill hole collar is located 20' on the east shore of Crawford Pond at 63.87 South and 4.30 East and was drilled on a bearing of N. 72° W. parallel to the 64 South traverse line. This -60° hole began July 19 and reached a depth of 157' 7" on July 31. During the first 9 days of August the drill hole was completed to a depth of 399' 6". Shore

Barren altered norite was cut from 210' to 228' drill hole depths. Quartz-biotite schist containing chlorite and minor graphite, which characteristically borders the orezone, was cut from 290' to 322' and from 328' to 378' drill hole depths. Massive pyrrhotite was cut from 322' 0" to 327' 10" and the top 2 inches of the footwall schist contained 20% sulfides. The interval from 322' 0" to 328' 0" was cut as one assay, and showed 1.5% nickel in the assay results. The assay report is attached hereto. Altered basics cut from 381' 1" to 399' 6" contained only very minor sulfides in the top 3 feet of the section and were not considered significant. The drill hole was stopped at 399' 6" with casing left in the hole to permit deepening the hole should it become necessary at a future date.

STAGE II DRILLING - August 1961

Drill Hole E-48-1

Four drill holes of the Stage II drilling program were designed to investigate the area between Traverses 42 South and 52 South. Drill Hole E-48-1 on Traverse 48 South was selected to begin this part of the program.

The three geophysical cross-overs on Traverse 48 South located at 4.25 East, 4.40 East and 4.55 East. The drill was collared at 4.60 East - immediately east of the three closely spaced cross-overs. This collar location was judged to be the safest considering the expected east dip of the ore body as intersected on drill holes from 52 South to 64 South. The center of the target area was determined as 4.60 East and 160 feet below sea level (270' drill hole depth).

From 268' 0" to 303' 5" a highly altered and fine-grained rock was cut and identified as an altered norite. Sulfides were present from 1% to 3% disseminated and represented only in some 2 to 3 inch zones through the section. Insufficient sulfides were evident to account for the geophysical cross-overs. The amount of graphite cut in the rock above and below this altered norite was also judged insufficient to explain the geophysical anomaly.

It was noted that a straight line in plan view drawn between E-3 (52 South and 3.75 East, 3/25/60 to 3/30/60) and E-1 (42 South and 4.0 East, 3/4/60 to 3/17/60) passed 75 feet west of the E-48-1 collar. From E-3 to E-1 the geophysical cross-overs deviated 55 feet eastward on 48 South from the above mentioned line. To allow for the possibility that the geophysics had mapped a shallow and perhaps irregular conductor to the east on 48 South the drill hole depth was increased to 399 feet to permit intersection of an eastward dipping ore-body lying to the west. The drill hole was stopped at this elevation and temporarily left open. This drill hole failed to intersect significantly mineralized basic rock and also failed to explain the conductor represented by the cross-overs on Traverse 48 South. No assay samples were taken from the core in this drill hole.

DISCUSSION

With the completion of Drill Hole E-64-2 exploratory drilling on the southern end of the geophysical trend was temporarily discontinued to permit a study of the problems involved.

Drill Hole E-62-1 cut 44 feet of mineralized basic rock, yet E-64-1 and E-64-2 cut only fine-grained basic rock resembling basic dike material which was not associated with significant mineralization. These two holes on 64 South cut the vein of massive sulfide in schist which explains the geophysical cross-over on this traverse. The two intersections of the massive sulfide established an eastward dip of -21°. The character of the conductor changes from a total of 4 feet of massive sulfide through a drill hole interval of 17 feet to a solid 6 feet of massive sulfide from Drill Holes E-64-1 to E-64-2 respectively. This suggests that the vein might increase in thickness toward the east. Since the assays from E-62-1 carry little resemblance to the high nickel values of the massive metal on Traverse 64 South, it is possible that the ore cut on 62 South is not connected along the trend with the massive metal on 64 South.

It is noted that ore has been cut by all of the drill holes in the Stage I program. Plotting the intersections both in plan and cross-section views supplements the interpretation of the geophysical data. After assimilation and study of this data, further drilling and the location of these holes will be recommended.

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 foliation; 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; graphite 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.

* * * * * * * * * * * * * * *

Total Depth 399' 6"

* * * * * * * * * * * * * * *

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

DRILL LOG

Hole No.:	E-48-1	Angle:	-90°
Location:	48 S. +4. 60E. Crawford Pond Ice Grid Coordinates	Bearing:	None
		Depth:	399'0"
		Elevation:	110' above sea level
		Logged by:	D. E. Wyke 8/10/61 to 8/26/61

Drill Hole Data

0' 0"	- 108' 0"	BX casing (removed)
0' 0"	- 143' 0"	AX casing (temporarily in hole - will be removed)
0' 0"	- 141' 0"	Overburden - no core
141' 0"	- 143' 0"	BX core
143' 0"	- 399' 0"	AX core

Depth		Lithology
0' 0"	- 52' 0"	Water
52' 0"	- 108' 0"	Mud
108' 0"	- 141' 0"	Sand, Cobbles, Boulders.
141' 0"	- 143' 5"	Schist: garnet; abundant biotite; carbonaceous; thin veins of quartz parallel to foliation; schistosity angle 45°.
143' 5"	- 147' 10"	Dolomite: altered; micaceous; 144' 0" - 144' 2" quartz vein; 144' 4" - 144' 9" quartz vein.
147' 10"	- 149' 3"	Schist: garnet; abundant biotite; carbonaceous.
149' 3"	- 151' 6"	Pegmatite: quartz, biotite.
151' 6"	- 156' 3"	Schist: garnet; abundant biotite; carbonaceous.
156' 3"	- 160' 7"	Pegmatite: quartz, biotite; inclusions of garnet schist.
160' 7"	- 162' 1"	Schist: garnet; micaceous, carbonaceous.

Water

Depth	Lithology
162' 1" - 180' 11"	Schist: quartz, biotite, chlorite; minor graphite and pyrite; 173' 3" - 175' 1" garnetiferous; 176' 0" - 178' 8" garnetiferous.
180' 11" - 182' 7"	Marble: grey, impure; dolomitic.
182' 7" - 183' 10"	Schist: garnet; carbonaceous.
183' 10" - 193' 6"	Schist: quartz, muscovite, chlorite; graphite present but not consistent; 183' 10" - 185' 1" garnet present; 189' 9" - 191' 1" garnet present; 191' 1" - 192' 2" quartz vein with muscovite; 191' 4" - 191' 11" inclusion quartz-biotite schist.
193' 6" - 196' 2"	Pegmatite: quartz, abundant muscovite.
196' 2" - 202' 7"	Schist: quartz, muscovite, biotite, chlorite; minor graphite and pyrite; generally garnetiferous.
202' 7" - 223' 5"	Marble: generally white; micaceous; thin vein of quartz.
223' 5" - 268' 0"	Schist: quartz, biotite, muscovite, chlorite; intermittent chlorite; intermittent garnet; serpentine in fractures; minor graphite and pyrite; occasional calcite in fractures; 254' 5" - 260' 9" increase in serpentine and graphite, core broken; 263' 1" - 267' 6" increase in serpentine and graphite, core broken; 267' 6" - 268' 0" quartz.
268' 0" - 288' 9"	Norite: altered; biotite, chlorite, feldspar, serpentine present; pyrrhotite generally 1% but increases to 3% in some narrow 2" to 3" zones; some very narrow veinlets of pyrrhotite with copper visible.
288' 9" - 303' 5"	Schist: general rock type changing each 6" to 18" to quartz-biotite schist, biotite schist, or quartz-biotite-chlorite-schist; zones of disseminated garnet; some chloritic zones; disseminated pyrrhotite to 1%; few minor veinlets pyrrhotite cutting across core axis.

Depth	Lithology
303' 5" - 373' 0"	Schist: quartz, biotite, chlorite; minor graphite and pyrite; serpentine in fractures; disseminated pyrrhotite to 1%; schistosity angle 55°; 311' 7" - 312' 5" quartz; 321' 4" - 322' 2" vein quartz-muscovite pegmatite; 335' 4" - 336' 11" vein quartz-muscovite pegmatite, some 2" biotite-rich zones; 367' 2" - 367' 9" impure marble.
373' 0" - 377' 4"	Pegmatite: quartz, muscovite; minor biotite.
377' 4" - 387' 8"	Schist: chlorite; minor biotite; narrow veins of quartz.
387' 8" - 399' 0"	Pegmatite: quartz, muscovite; minor biotite.

* * * * * * * * * * * * * *

Total Depth 399' 0"

* * * * * * * * * * * * * *

No assays cut.....

Telephone EMpire 3-3302

Hand Sample Serial 12690

Mine Roland F. Beers, Inc.
P.O. Box 84
Rockport, Main

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J.V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary

Salt Lake City 10, Utah

RESULTS PER TON OF 2000 POUNDS

August 29, 1961

NO.	GOLD Ozs. per Ton	SILVER Ozs. per ton	LEAD Per Cent Wet	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent Ni	Per Cent Co	VALUE GOLD
E-64-2-1				0.655			28.88	47.6		2.503	0.117	

Remarks

Charges $ 15.50

Ed. C. Wanlass

PROGRESS REPORT

July, 1961

Docket No. OME - 6104

Contract No. 14-23-090-2123

Roland F. Beers, Inc. Alexandria, Virginia

TABLE OF CONTENTS

GENERAL INFORMATION

Sample Study

STAGE I DRILLING - JULY 1961

Drill Hole E-62-1

Drill Hole E-64-2

DRILL LOGS

Drill Hole Log E-62-1

Drill Hole Log E-64-2

ASSAY DATA

Drill Hole E-64-1, Hand Sample 17258-60 (Drill Log in June 1961 Report)

Drill Hole E-62-1 Hand Sample 17786-17792

MAP SECTION

Cross Section Drill Hole E-62-1

Cross Section Drill Hole E-64-2 (in progress)

GENERAL INFORMATION

The Field Office was pleased by a visit from Mr. George C. Selfridge, Chief, Division of Field Operations, OME during July 18 and 19. Mr. Selfridge spent his time here acquainting himself with the prospect, examining representative core, and reviewing the prospect with respect to maps and cross-sections.

Sample Study.

Selected samples of massive pyrrhotite were taken for polished-section study from the Crawford Pond area and one sample from the Harriman Grid. This study will supplement a preliminary study on the state of occurrence of nickel with respect to the pyrrhotite and associated minerals in the ultra-basic rock. If this supplementary study confirms previous findings, as expected, then a more comprehensive study will follow. The samples included in this selection are as follows:

Drill Hole	Interval	Sample No.	Assay No.
E-4	414' 10" - 414' 11"	E4-414	E-4-5
E-64-1	351' 5" - 351' 6"	E641-3515	E-64-1-2
H-15.8-S	326' 2" - 326' 3"	H158-3262	H-15.8-S-5
E-62-1	338' 6" - 338' 7"	E621-3386	E-62-1-7
E-3	288' 6" - 288' 7"	E3-2886	E-3-6
E-55-1	330' 7" - 330' 8"	E551-3307	E-55-1-7
E-60-2	394' 0" - 394' 1"	E602-3940	E-60-2-5
S-3	54' 5" - 54' 6"	S3-545	
S-1	56' 8" - 56' 9"	S1-568	S-1-2
E-52-2	375' 4" - 375' 5"	E522-3754	E-52-2-6

STAGE I DRILLING JULY, 1961

Drill Hole E-62-1

Drill Hole E-64-1 on Traverse 64 South (6-11-61 to 6-30-61) failed to cut ultra-basic rock and the core produced only four feet of massive pyrrhotite from a pegmatite at approximately 350 feet drill hole depth. This drill hole location represented an attempt to extend the nickel-ore body from Traverse 59 South to Traverse 64 South, a southward extension of 500 feet along the conductor axis. The drill hole was designed to cut the conductor 147 feet below sea level and below the E. M. axis at 110 East. It had been assumed that the narrow vein of massive pyrrhotite has an eastward dip and therefore

extends above the ore horizon to the west of the ore-body. Since the E. M. unit would determine the conductor axis on the basis of the electrical conductor nearest the surface, the location at 110 East on Traverse 64 South represents the vein and not the main conductor.

Drill Hole E-62-1 was located on Traverse 61.75 South and was designed to cut the conductor zone between Traverses 59 South and 64 South. The purpose of this drill hole was to determine if the ore-body extends south of Traverse 59 South and to gain information with respect to the attitude, direction, and mineralization of the ore-body that might lend support to the assumption mentioned above.

Drill Hole E-62-1 cut basic rock from 295 feet to 339 feet drill hole depths. The mineralized ultra-basic present in the core was divided into three zones by two pegmatite dikes. The upper and lower sections contained from 25% to 30% pyrrhotite in chloritic peridotite. The center section, composed of relatively unaltered peridotite, contained from 40% to 50% sulfides. The wall rock on either side of the ore zone was the characteristic slightly graphitic chlorite schist. Assays were cut through the entire section and shipped to the Union Assay Office in Salt Lake City, Utah. The assay reports are available for this report.

The low angle of the hole (-41°) seriously reduced the effectiveness of the BXWL core barrel. Between drill hole depths 120 feet and 249 feet, the recovered core was broken and abnormally frequent pulls were necessary to clear the bit. Although water circulation was good, a change to AX rods was made because of the condition of the core. The core recovery and the condition of the core immediately improved.

Drill Hole E-64-2

This -60° drill hole was located on Traverse 64 South on the assumption that Drill Hole E-64-1 (-41°) over-shot the ore-body. The information gained from Drill Hole E-62-1 lends support to the assumption that the main conductor continues southward and lies to the east of the E. M. axis on Traverse 64 South.

Bedrock was cut at 25' 10" drill hole depth and the hole had reached a depth of 157' 7" at the end of July. Pegmatite was the dominant rock encountered to 139 feet drill hole depth and the core is marble through 157 feet at this writing. The drill log and cross-section for the total depth attained is included in this report.

DRILL LOG

Hole No.:	E-62-1	Angle:	-41°
Location:	61.75 S. + 4.70 E.	Bearing:	N. 72° W.
	Crawford Pond	Depth	364'
	Ice Grid	Elevation:	110' above sea level
	Coordinates	Logged by:	D. E. Wyke
		7/1/61 to 7/18/61	

Drill Hole Data:

0' 0" - 46' 0"	NX casing (left in hole at Operator's request)
45' 0" - 55' 0"	AX casing (left in hole at Operator's request)
55' 0" - 249' 0"	AX casing lost in hole
0' 0" - 46' 0"	Sand (no core)
46' 0" - 249' 0"	BXWL core
249' 0" - 364' 0"	AX core

Depth	Lithology
0' 0" - 46' 0"	Sand
46' 0" - 68' 9"	Schist: quartz, biotite; pegmatized; Schistosity angle with core axis 70°.
68' 9" - 71' 10"	Schist: quartz, chlorite; 3" altered hornblende schist near base of section; 70' 11" - 71' 4" vein quartz-biotite pegmatite.
71' 10" - 73' 0"	Schist: quartz, biotite; schistosity angle 70° to core axis; 72' 1" - 72' 5" quartz-chlorite schist.
73' 0" - 77' 11"	Pegmatite: quartz, biotite; 74' 7" - 75' 0" chloritic; 76' 7" - 76' 10" chloritic.
77' 11" - 89' 5"	Schist: quartz, biotite; strong pegmatization.

Drill Log: E-62-1

Depth	Lithology
89' 5" - 91' 8"	Schist: quartz, biotite; minor chlorite; minor pyrite lower 3"; schistosity angle generally 80°; 89' 5" - 89' 9" quartz vein with pyrite; 90' 10" - 91' 5" quartz-biotite-hornblende schist.
91' 8" - 98' 9"	Pegmatite: quartz, biotite; 3" inclusion quartz-biotite schist.
98' 9" - 107' 10"	Marble: impure, probably dolomitic; pegmatized lower 2'.
107' 10" - 120' 6"	Schist: quartz, biotite; strong pegmatization; inclusions quartz-biotite schist and biotite schist.
120' 6" - 138' 0"	Marble: partly dissolved by ground water; abundant disseminated garnet; micaceous; narrow quartz veins; 130' 9" - 138' 0" dolomitic; 120' 6" - 130' 9" fractured core.
138' 0" - 141' 2"	Schist; garnet; calcareous; minor calcite and quartz veins.
141' 2" - 162' 0"	Schist; quartz, biotite, chlorite, garnet; calcareous; narrow quartz veins.
162' 0" - 164' 3"	Schist: quartz, biotite, chlorite; minor garnet; calcareous and micaceous.
164' 3" - 166' 0"	Pegmatite: quartz, biotite.
166' 0" - 204' 0"	Schist: quartz, biotite, chlorite; minor garnet; calcareous and micaceous; 2" to 8" quartz-biotite pegmatite veins; increase in garnet at 184'; 184' - 204' fractured core.

Drill Log: E-62-1

Depth	Lithology
204' 0" - 213' 3"	Pegmatite: quartz, muscovite; minor biotite.
213' 3" - 272' 3"	Schist: quartz, chlorite, biotite; garnetiferous top 3"; irregular schistosity; calcareous and micaceous; evidence of very minor graphite; pyrite in fractures; Changed to AX core at 249' 0" for better recovery and condition of core.
272' 3" - 283' 4"	Schist: quartz, muscovite, biotite; fine-grained; poor schistosity; 3" to 8" veins quartz-biotite pegmatite; strongly pegmatized section.
283' 4" - 295' 3"	Schist: quartz, biotite, chlorite; minor graphite; minor pyrite; minor pyrrhotite below 295' 0".
295' 3" - 302' 10"	Peridotite: pyroxene; chloritic; 295' 3" - 295' 7" pyrrhotite semi-massive with high copper content; 295' 7" - 302' 10" pyrrhotite to 25%; pyrrhotite disseminated and doubtfully interconnected.
302' 10" - 320' 0"	Pegmatite: quartz, biotite; top 6" contains 10% pyrrhotite and copper; 317' 5" - 317' 11" contains 10% pyrrhotite.
320' 0" - 325' 6"	Peridotite: pyroxene; less chlorite than above section; pyrrhotite to 40% plus; disseminated and interconnected.
325' 6" - 330' 0"	Peridotite: pyroxene; minor chlorite; pyrrhotite to 55%.
330' 0" - 334' 8"	Pegmatite: quartz, biotite; inclusions anthophylite peridotite with 5% to 15% pyrrhotite from: 330' 9" - 331' 2"; 331' 8" - 332' 0"; 333' 1" - 333' 10".

Drill Log: E-62-1

Depth	Lithology
334' 8" - 339' 1"	Peridotite: pyroxene; chloritic; pyrrhotite generally 25%; pyrrhotite to 30%; 338' 3" - 339' 1" massive pyrrhotite.
339' 1" - 343' 0"	Schist: quartz, biotite, chlorite, graphite; graphite 2% to 3%; pyrrhotite 1% top 18"; schistosity angle with core axis 60°.
343' 0" - 364' 0"	Schist: quartz, chlorite; minor biotite; schistosity angle 60°; minor graphite and pyrite; 1" veins quartz; strong pegmatization below 362' 1".

* * * * * * * * * * * *

Total Depth 364' 0"

* * * * * * * * * * * *

ASSAYS:

E-62-1-1	295' 3" - 302' 0"	
E-62-1-2	302' 0" - 305' 6"	
E-62-1-3	305' 6" - 320' 0"	dike
E-62-1-4	320' 0" - 325' 0"	
E-62-1-5	325' 0" - 330' 0"	
E-62-1-6	330' 0" - 335' 0"	dike
E-62-1-7	335' 0" - 339' 2"	

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"
		Elevation:	120' above sea level
		Logged by:	D. E. Wyke
			7/ 19/ 61 to 7/ 31/ 61
			(Drilling not completed at July 31, 1961, for this hole).

Drill Hole Data:

0' 0" - 28' 0"	BX casing (will be left in hole at Operator's request)
0' 0" - 25' 10"	Overburden, no core.
25' 10" - 157' 7"	BXWL core (TDA 7/31/61)

Depth	Lithology
0' 0" - 25' 10"	Soil and sand (no core)
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;

Drill Log: E-64-2

Depth	Lithology
	34' 8" - 35' 6" pegmatized marble or dolomite. 41' 8" - 42' 2" inclusion quartz-biotite schist. 44' 2" - 44' 7" inclusion quartz-biotite schist, probably 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 157' 7"

* * * * * * * * * * * * * * * * *

Telephone EMpire 3-3302

Hand Sample Serial 17258-60

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary

Salt Lake City 10, Utah

Mine Roland F. Beers, Inc.
Box 34
Rockport, Maine

RESULTS PER TON OF 2000 POUNDS

August 1, 1961

NO.	GOLD Ozs. per Ton	SILVER Ozs. per ton	LEAD Per Cent Wet	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent Ni	Per Cent Co	VALUE GOLD
E-64-1-1				0.441			23.14	38.4		1.213	0.088	4
E-64-1-2				0.567			29.95	47.8		1.715	0.110	25
E-64-1-3				0.340			27.26	44.6		1.528	0.102	15

Remarks [illegible]

W. C. Wanlass

Charges $ 46.50

Telephone EMpire 3-3302

Hand Sample Serial 17786-17792

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary

Salt Lake City 10, Utah

Mine Roland R. Beers, Inc.
Box 81
Rockport, Maine

RESULTS PER TON OF 2000 POUNDS

August 7, 1961

NO.	GOLD Ozs. per Ton	SILVER Ozs. per ton	LEAD Per Cent Wet	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent Ni	Per Cent Co	VALUE GOLD
E-62-1-1				0.189			7.10	14.8		0.398	0.044	
E-62-1-2				0.138			5.09	11.4		0.284	0.029	
E-62-1-3				0.088						0.073		
E-62-1-4				0.201			14.06	28.6		0.744	0.073	
E-62-1-5				0.252			16.04	31.4		0.845	0.088	
E-62-1-6				0.088						0.170		
E-62-1-7				0.302			12.40	24.2		0.638	0.059	

Remarks

W. C. Wanlass

Charges $ 90.50

EXTRA COPY
O. M. E.
RECEIVED AUG 15 1961

DATE	INITIALS	CODE

August 7, 1961

United States Department of the Interior
Office of Minerals Exploration
Washington 25, D C

Attention: Mr. George C Selfridge

Re: OME-6104 (Nickel)
Crawford Pond, et al, Prospects
Knox County, Maine
Contract 2123

Dear Mr. Selfridge:

Enclosed are four copies of amended drill log for Hole No. E-64-1, This amendment includes the descriptive material for the core in the section 341' 5" to 357' 10" which was ommitted in the drill log submitted with the narrative report for June, 1961.

The casing charges shown on the drilling contractor's statements for May and June, 1961, are the charges for casing left in drill holes at our request. The charges for this casing were not included in the Operator's Monthly Vouchers.

Union Assay Office, Inc's. charges for assays were increased effective July 1, 1961. A comparison of the old and current rates follows:

Determinations:	Rates prior to 7/1/61	Rates after 6/30/61
Copper, Iron & Sulphur	$1.00	$1.50
Nickel	4.00	5.00
Cobalt	5.00	6.00

A copy of Union Assay's July 1, 1961 price list is enclosed for your files.

Please inform me if the unit costs stipulated in the contract for assays are maximums. If not maximums then the charge on the June 1961 Operator's Voucher for nickel and cobalt assays should read as follows:

10 Assays at $9.00	$90.00
9 Assays at $11.00	99.00
	$189.00

This change will increase the total cost to $4,596.98 for the June Voucher.

We will abide by your wishes as to the number of copies of MME Form 60, MME Form 61 and the narrative report to be submitted and, as to the classification of assays on Forms 60 and 61.

Sincerely yours,

John S. Bakos

John S Bakos
Controller

JSB/eb

ROLAND F. BEERS, INC.

Crawford Pond
Knox County, Maine

OME 6104, Contract No. 2123

AMENDED DRILL LOG

E-64-1

(Part of June 1961 Narrative Report)

August 7, 1961

AMENDED 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.

* * * * * * * * * *

Total Depth 550'0"

* * * * * * * * * *

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"

PROGRESS REPORT

June, 1961

Docket No. OME-6104

Contract No. 14-23-090-2123

Logs
E-55-1
E-64-1

Roland F. Beers, Inc. Alexandria, Virginia

TABLE OF CONTENTS

GENERAL INFORMATION

Stage I Drilling - May, 1961

Drill Hole E-60-2

Drill Hole E-52-2

Stage I Drilling - June, 1961

Drill Hole E-55-1

Drill Hole E-64-1

DRILL LOGS AND ASSAY DATA

Drill Hole Log E-55-1

Drill Hole Log E-64-1

Assay Report on Drill Hole E-52-2

Assay Report on Drill Hole E-55-1

MAP SECTION

Cross Section Drill Hole E-55-1

Cross Section Drill Hole E-64-1

GENERAL INFORMATION

Stage I Drilling - May, 1961

Drill Hole E-60-2

The first drill hole in May, 1961, was collared at 60.00 South + 5.52 East and was designed to check the eastern limit of the ore-body near Traverse 60 South. This drill hole was designated as E-60-2. Drill Hole E-4 (5/30/60 to 6/13/60) which was collared at 60.00 South + 5.50 East cut ore from 335 feet to 444 feet drill hole depths. Drill Hole E-60-2 cut ore from 370 feet to 394 feet drill hole depths. In this ore vein cut by E-60-2 the peridotite was relatively unaltered, the heavy mineral content was uniformly disseminated, and the percentage of nickel was unusually high. These facts suggested that the vein cut might be nearer to the original source of the metal and that this source would probably lie east of the main conductor trend plotted by geophysics. Plotting the bottom of the ore in Drill Holes E-4 and E-60-2 presented an eastward dip of the vein of 20°, and the ore zone was extended a distance of 143 feet to the East. This second drill hole on Traverse 60 South satisfied the Stage I drilling requirements for this vicinity.

Drill Hole E-52-2

Two drill holes were proposed on Traverse 52 South. These drill holes were designated on Attachment F of the OME Contract as E-52-2 and E-52-3, both to be drilled from the same collar at 52 South + 7.25 East. The sharp relief of the land on Traverse 52 South dictated the best location for the drill would be 52.2 South + 6.20 East. Since a -45° drill hole would over-shoot the target area from this location the -60° drill hole was designed to check the eastern extent of the ore-body on this traverse. This drill hole was designated as E-52-2 since it was the second hole to be drilled on Traverse 52 South. This hole was stopped at a total depth of 420 feet after passing through the eastern margin of the conductor from 350 feet to 400 feet.

The assay report on this drill hole has been received and is included in this report. The assays are considerably less in value than those previously received on Drill Hole E-3 (3/25/60 to 3/30/60) which was a vertical hole immediately to the east. The assays of Drill Hole E-52-2 are representative of the marginal area of the ore body.

Plotting the bottom of the ore zone from Drill Hole E-3 to Drill Hole E-52-2 shows that the angle of dip is 46° eastward. For the present the information desired from drilling on Traverse 52 South has been gained and no further drilling is planned in this vicinity during the Stage I drilling program.

The Stage I drilling proceeded during the month of June with two drill holes completed. These drill holes are described in the following text, and the drill logs, drill hole cross sections, and available assay data are included in this report.

Drill Hole E-55-1

The third hole of Stage I into the conductor was originally planned for 55.5 South with the collar at 56.2 South + 6.90 East. After several unsuccessful attempts were made to drill into the westward sloping surface of the bedrock at this location, a favorable shelf was located at 54.9 South + 5.10 East. This -60° drill hole cut basic rock containing 50% to 60% nickeliferous pyrrhotite from 297 feet to 318 feet and massive pyrrhotite from 325 feet to 344 feet drill hole depths. The total width of the ore zone cut was 46.5 feet, but the two zones were separated by a 7 foot pegmatite dike containing inclusions of highly altered basic rock. The dike zone contained only a minor amount of visible sulfides and was assayed separately from the rest of the ore zone.

With respect to the vertical holes planned in Stage II drilling it is expected that one vertical hole will be allowed on Traverse 55 South at the expense of another less favorable area.

Drill Hole E-64-1

Traverse 64 South was the only remaining area to be investigated in the Stage I drilling program. A -42° hole was collared at 63.87 South + 4.30 East and designated as Drill hole E-64-1. Drilled on a bearing of N. 72° W. this hole was to cut the conductor zone at approximately 430 feet drill hole depth and the ore zone between -100 feet and -200 feet below sea level. Specifically, the center of the target area was assumed to be 147 feet below sea level and directly below the E. M. crossover at 64 South + 1.10 East.

No basic rock was cut in this hole and the only concentration of sulfides present was a total of 4 feet of massive pyrrhotite in a pegmatite dike from 350 feet to 358 feet drill hole depths. The chlorite-graphite schist which is the favorable host rock for the ultra-basics was present from 210 feet to 370 feet, drill hole depths, but only minor disseminated pyrrhotite was noted besides the massive pyrrhotite mentioned above.

Considerable difficulty was experienced in penetrating the 50 feet of sand and boulders at the top of the hole and the low angle of the hole was a contributing factor. As a result of this difficulty and to regain water circulation, it was necessary to reduce to AX drilling rods. Water circulation was lost two more

times, the third time in a 7 foot fissure beginning at 303 feet. It is concluded that the fissure was filled with hard-packed mud since this was present in the bit on the first pull. Neither the mud nor the broken pieces of soft mica schist in the barrel produced any evidence of the presence of sulfides. Circulation was regained only temporarily and further attempts to do so were abandoned. A series of 3 foot to 5 foot pulls were made until more competent rock was encountered.

It is possible that the E. M. cross-over at 64 South + 1.10 East is satisfied by the sulfides cut at approximately 350 feet drill hole depth even though the cross section map shows an offset of approximately 50 feet. Since no basic rock had been encountered so far, it was necessary to continue the drilling until the drill hole passed under a second E. M. cross-over located at 64 South + 0.25 East where the drill hole was stopped at a total depth of 550 feet.

At June 30, 1961, a total of 1,753 feet of the 3,540 feet of Stage I drilling had been used as follows:

Drill Hole	Date	Drill Hole Depth
E-60-2	5/1/61 to 5/13/61	420 '
E-52-2	5/14/61 to 5/31/61	420 '
E-55-1	6/1/61 to 6/10/61	363 '
E-64-1	6/11/61 to 6/30/61	550 '
	Total	1,753 '

DRILL LOG

Hole No.:	E-55-1	Angle:	-60°
Location:	54.9 S. + 5.~~1~~ 3 E.	Bearing:	N. 72° W.
	Crawford Pond	Depth:	363'
	Ice Grid	Elevation:	120' (water level + 10')
	Coordinates	Logged by:	D. E. Wyke
			6/1/61 to 6/10/61

Drill Hole Data:

0'0"	- 9' 0"	Overburden
9' 0"	-287' 0"	BXWL core
287' 0"	- 363' 0"	AX Core (reduction to regain water for sludge samples through ore zone).

Depth		Lithology
0' 0"	- 9' 0"	Overburden.
9' 0"	- 10' 10"	Schist: quartz, biotite, chlorite; minor graphite; pyrrhotite -1%; minor pyrite.
10' 10"	- 18' 5"	Pegmatite: quartz, biotite; very minor pyrrhotite; 17' 6" - 18' 5" inclusion of mica schist with minor graphite and -1% pyrrhotite.
18' 5"	- 22' 2"	Pegmatized marble.
22' 2"	- 32' 2"	Marble and Dolomite.
32' 2"	- 35' 5"	Pegmatite: quartz, biotite; quartz top 8".
35' 5"	- 38' 10"	Schist: quartz, biotite, hornblende; quartz vein lower 6".
38' 10"	- 47' 1"	Pegmatite: quartz, biotite.
47' 1"	- 51' 1"	Schist: quartz, biotite, hornblende.
51' 1"	- 62' 4"	Pegmatite: quartz, biotite.

Drill Log: E-55-1

Depth	Lithology
62' 4" - 64' 0"	Schist: quartz, biotite, hornblende.
64' 0" - 67' 3"	Pegmatite: quartz, biotite; 64' 10" - 65' 8" inclusion quartz-biotite-hornblende schist.
67' 3" - 68' 11"	Schist: quartz, hornblende; calcite in fractures.
68' 11" - 92' 1"	Limy Schist: quartz, biotite; some 4" veins quartz-biotite pegmatite; 68'11"-70' 0" altered by ground water; 91' 0" - 92' 1" inclusion quartz-hornblende schist.
92'1" - 105' 6"	Schist: quartz, biotite; strong pegmatization.
105' 6" - 112' 9"	Schist: quartz, hornblende; numerous fractures with calcite; lower 1" dolomite.
112' 9" - 132' 10"	Limy Schist: Quartz, biotite; schistosity variable; 112' 9" - 113' 3" quartz-biotite muscovite pegmatite with included calcite; 122' 8" - 123' 5" quartz-muscovite pegmatite with included calcite.
132' 10" - 135' 0"	Schist: quartz, biotite, muscovite, garnet; abundant calcite; 134' 6" - 135' 0" quartz vein with included calcite partly removed by ground water.
135' 0" - 175' 0"	Limy Schist: muscovite, chlorite, garnet; serpentinized; narrow veins of quartz present; altered micaceous marble zones at: 150' 2" - 150' 6" 156' 3" - 157' 5" 161' 5" - 163' 4" 165' 4" - 167' 6"
175' 0" - 178' 8"	Marble: micaceous, minor quartz veins.

Depth	Lithology
178' 8" - 205' 0"	Schist: muscovite, chlorite, garnet; strong serpentinization; minor graphite lower 6".
205' 0" - 228' 0"	Limy Schist; muscovite, chlorite, garnet; strongly serpentinized; graphite present to 2%; minor pyrite; some narrow quartz-biotite pegmatite veins.
228' 0" - 252' 5"	Schist: muscovite, chlorite, minor garnet; graphite to 1%; minor serpentine; 240' 6" increase in garnet content.
252' 5" - 256' 9"	Schist: quartz, biotite; top 7" quartz-biotite pegmatite; schistosity angle generally 60° to 70°.
256' 9" - 267' 2"	Schist: muscovite, chlorite, minor garnet; minor graphite; minor pyrite; very minor pyrrhotite.
267' 2" - 268' 4"	Schist: quartz, biotite.
268' 4" - 270' 1"	Schist: quartz, biotite, chlorite; minor garnet; minor graphite, pyrite, and pyrrhotite.
270' 1" - 271' 7"	Schist: quartz, biotite.
271' 7" - 273' 2"	Schist: quartz, biotite, hornblende.
273' 2" - 274' 1"	Pegmatite; quartz, biotite.
274' 1" - 278' 7"	Gabbro: strongly pegmatized; biotitic; minor pyrrhotite.
278' 7" - 280' 2"	Pegmatite: quartz, biotite.
280' 2" - 283' 0"	Gabbro: strongly pegmatized; biotitic; minor pyrrhotite.

Depth	Lithology
283' 0" - 289' 1"	Schist: quartz, biotite; pegmatized; minor garnet; 283' 3" - 283' 10" quartz vein; 284' 7" - 285' 3" quartz vein.
289' 1" - 297' 8"	Alteration zone: 289' 1" - 291' 8" Schist: quartz, biotite, hornblende; calcite in fractures; 291' 8" - 295' 10" Schist: quartz, biotite, chlorite; graphite; garnet; minor pyrite; pyrrhotite to 1%; 295' 10" - 296' 10" Pegmatite: quartz, biotite rich; 296' 10" - 297' 8" Pegmatite; quartz, biotite; abundant basic feldspar; no metals.
297' 8" - 318' 0"	Peridotite: pyroxene, chlorite; copper 2% plus; 297' 8" - 311' 6" pyrrhotite 50%; 311' 6" - 318' 0" pyrrhotite 60% with less chlorite.
318' 0" - 325' 4"	Dike zone: 318' 0" - 318' 4" biotite rich pegmatite; 318' 4" - 319' 0" quartz-biotite pegmatite; 319' 0" - 319' 3" serpentine and anthophylite; 319' 3" - 320' 3" quartz-biotite pegmatite; 320' 3" - 321' 1" serpentine and anthophylite; 321' 1" - 325' 4" fine-grained gabbro; barren of sulfides; calcite in fractures.
325' 4" - 344' 2"	Massive pyrrhotite; except for: 326' 10" - 327' 6" gabbro dike, barren; 331' 1" - 331' 2" calcite vein; 340' 11" - 341' 1" quartz vein with high copper.
344' 2" - 363' 0"	Schist: quartz, biotite, chlorite; minor graphite begins at 347' 0"; minor pyrite and pyrrhotite present; schistosity angle with core axis: 55° at 346'; 80° to 90° from 346' to 363'; 354' 9" - 356' 4" quartz-biotite pegmatite.

* * * * * * * * * * * * * * * *

Total Depth 363' 0"

* * * * * * * * * * * * * * * *

ASSAYS:

E-55-1-1	297' 8" - 303' 0"
E-55-1-2	303' 0" - 308' 0"
E-55-1-3	308' 0" - 313' 0"
E-55-1-4	313' 0" - 318' 0"
E-55-1-5	318' 0" - 325' 0"
E-55-1-6	325' 0" - 330' 0"
E-55-1-7	330' 0" - 335' 0"
E-55-1-8	335' 0" - 340' 0"
E-55-1-9	340' 0" - 344' 2"

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" - 341' 5"	Schist; quartz, chlorite, minor biotite; minor graphite, pyrite to 2%; 338' 6" - 340'0" graphite to 5%; 340'0" - 341' 5" highly altered by pegmatite.
341' 5" - 357' 10"	Pegmatite: quartz, biotite; minor disseminated garnet; 350' 0" - 350' 6" broken rock in ground water zone; 350' 6" - 350' 7" biotite schist with minor hornblende; 350' 7" - 350'8" massive pyrrhotite with high copper content; 350' 8" - 351' 0" biotite schist with minor hornblende; 351' 0" - 353' 2" massive pyrrhotite with high copper content; 353' 2" - 354' 1" pegmatite with quartz, biotite and minor disseminated pyrrhotite; 354' 1" - 356' 5" 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;

Depth	Lithology
	356' 5" - 357' 10" massive pyrrhotite with high copper content. 1'-05"
357' 10" - 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.
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.

Depth	Lithology
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 pegmatites.
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°.
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.

* * * * * * * * * * * * * * * * *

Total Depth 550' 0"

* * * * * * * * * * * * * * * * *

ASSAYS:

E-64-1-1	341' 4" - 345' 3"	= 4'
E-64-1-2	351' 5" - 353' 2"	= ~
E-64-1-3	356' 2" - 357' 10"	= 2

approved DC

TELEPHONE EM 3-3302

Hand Sample Serial 14485-94

Roland F. Beers, Inc.
P. O. Box 84
Rockport, Maine

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary

Salt Lake City 10, Utah

RESULTS PER TON OF 2000 POUNDS

June 26, 1961

NO.	GOLD Ozs. per Ton	SILVER Ozs. per ton	LEAD Per Cent Wet	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent	VALUE GOLD
										Ni	Co	
E-52-2-1				0.063			2.82	8.4		0.227	0.029	4'-09" = 5'
E-52-2-2				0.189			7.23	14.2		0.422	0.030	5'
E-52-2-3				0.144			6.62	13.4		0.443	0.051	5'
E-52-2-4				0.434			4.01	10.4		0.256	0.029	5'
E-52-2-5				0.623			4.88	10.6		0.307	0.029	5'
E-52-2-6				0.359			8.08	17.8		0.530	0.014	5'
E-52-2-7				0.201			1.46	6.2		0.122	0.036	5'
E-52-2-8				0.207			3.65	9.4		0.274	0.022	5'
E-52-2-9				0.126			1.51	6.0		0.140	0.014	5'
E-52-2-10				0.195			0.87	6.2		0.079	0.014	5'
				0.254			4.11	12.37		0.280	0.027	
				10			10	10		10	10	

90
30
120

90
30
120

Remarks

Charges $ 120.00

W. C. Wanlass

Telephone EMpire 3-3302 Hand Sample Serial 15131-39

ASSAY REPORT

UNION ASSAY OFFICE Ltd

J. V. SADLER, President
W. C. WANLASS, Vice-President & Treas.
LILY M. HOTTINGER, Secretary
Salt Lake City 10, Utah

Mine Roland F. Beers, Inc.
Box 84
Rockport, Maine

RESULTS PER TON OF 2000 POUNDS July 6, 1961

NO.	GOLD Ozs. per Ton	SILVER Ozs. per ton	LEAD Per Cent Wet	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent Ni	Per Cent Co	VALUE GOLD
E-55-1-1				0.346			13.79	28.4		0.843	0.102	5'-04"
E-55-1-2				0.680			13.96	31.6		0.983	0.095	5'
E-55-1-3				0.510			15.68	31.8		0.780	0.088	5'
E-55-1-4				0.283			17.37	34.6		1.079	0.088	5'
E-55-1-5				~~0.176~~			~~1.92~~	~~8.6~~		0.156	~~0.014~~	7' dia.
E-55-1-6				0.415			24.29	46.8		1.593	0.073	5'
E-55-1-7				0.617			31.98	54.2		1.914	0.095	5'
E-55-1-8				1.012			30.97	53.0		1.719	0.110	5'
E-55-1-9				1.315			29.24	47.4		1.662	0.117	4'-02"
				0.[illegible]			22.1[illegible]	42.[illegible]		1.[illegible]	0.096	

81
27
108

Remarks

Charges $ 139.50

W. C. Wanlass

PROGRESS REPORT

May, 1961

Docket No. OME-6104

Contract No. 14-23-090- 2123

Logs
E-52-2
E-60-2

Roland F. Beers, Inc. Alexandria, Virginia

REVIEW OF PROSPECT

The termination of Contract No. Idm-E 1224 (Docket No. DMEA-4947) on 1 June, 1960, between Roland F. Beers, Inc., and the Defense Minerals Exploration Administration (now Office of Minerals Exploration) left considerable territory remaining to be explored. It was deemed justifiable by the Operator to apply for financial aid in prosecution of the additional work. Accordingly, an application was prepared which resulted in the current contract agreement, (OME-6104-Nickel) Contract 2123. Work began on this Contract 1 May, 1961, and is continuing as reported below.

OBJECTIVES OF THE PROGRAM OF EXPLORATION.

By reference to the Drill Hole Location Map, it will be seen that the program proposed by the Operator includes drilling by diamond drill in a pattern to intersect the ore body at intervals of not more than 200 feet along its extent as presently known. This program has been designed to increase the estimate of ore reserves to the point where an economic operation could result. Prior to the current program, reserves of about 4 million tons were estimated. The current operations are designed to confirm this estimate, and, in addition, to increase the figure somewhat. The amount of additional reserves cannot be estimated at this time, but the objective is an increase of 2 million tons. With these reserves, the provision of capital funds for mining and milling operations would be justified.

The basis of the expectation of additional reserves may be seen in the geophysical maps and in the intersections of ore found in drill holes E-3 and E-4 (grid lines 52 south and 60 south, respectively). Correlation of these data shows the conductor to extend continuously from grid line 41 south to 98 south. In terms of geophysical amplitude the cores taken from drill holes E-3 and E-4 suggest that the sulfide body throughout its mapped length will be not less than that found in these two cores. The full meaning of this indication remains to be confirmed by the current drilling program.

RESULTS OF THE DRILLING PROGRAM IN MAY, 1961.

By the end of May, 1961, two core holes had been completed under the current contract. These are E-60-2, located on grid line 60 south, at a distance of 552 feet east of the base line, and drilled down to the west at an angle of 60 degrees, at an azimuth of N 63° 30' W, and hole E-52-2 (shown as hole E-52-3 on drill hole location map in application) collared 620 feet east of the base line at grid line 52.2 S down to the west at an angle of 60°, with an azimuth of N. 72° W.

72
16
56

63-30
16
79-30

The logs of these core holes are attached to this report. One assay has been received from Union Assay Office, Inc., of Salt Lake City, which is also attached.

INTERPRETATION OF RESULTS

Drill hole E-60-2 intersected peridotite with pyrrhotite to the extent of 70% throughout a section from 369' 9" to 394' 4". At the bottom 3 inches of this core the silicate phase was probably altered schist, containing 50% pyrrhotite. Pyrrhotite content of the metamorphosed sediments ranged up to 1% above the peridotite section from about 200 feet to the contact with the intrusive at 369'9". The customary graphite sheath was found in the section immediately above the peridotite, containing about 1% graphite and about the same pyrrhotite content. The entire sedimentary section shows evidence of pegmatitic intrusions, ranging from thin veins to a few feet in thickness. The peridotite section in this core was free from pegmatites.

Drill hole E-52-2 encountered the peridotite from a depth of 350' 3" to 400' 0", a section twice the thickness of that found in hole E-60-2. The sulfide content of this core ranged over much wider limits than that found in E-60-2, and at no place reached a value as high as that in E-60-2 (70%). The entire sulfide-bearing section was selected for assay, 5 foot intervals being chosen in each core. The peridotite section in hole E-52-2 was frequently traversed by peridotite intrusives in contrast with that in E-60-2. The contrast between these two holes leads one to speculate on the genetic relations of the two locations. By reason of the higher purity in the E-60-2 hole, one might suggest that a feeder dike has been located at this point, in which the high sulfide and high nickel content are the result of a higher degree of differentiation between the silicate and sulfide phases of the intrusive body. One can draw no final conclusions at this point. The developments in succeeding core holes will be followed with interest. Also of interest will be the structural attitude of the intrusive, as its details are unfolded by the drilling program.

CONTINUING PROGRAM

The remainder of this program, Stage I, as defined in the Contract, is continuing without interruption. To date a total of 840 feet has been drilled, leaving a balance of 2,950 feet out of a total of 3,790 feet for this stage. Since the structural attitude of the ore body is not clear at this time, it may prove desirable

to re-enter some of the holes drilled early in this Stage. This eventuallity is permitted by the arrangements made at the time of suspending drilling on the first two holes, E-60-2 and E-52-2. No decision can be made on this point at this time. It is worth while noting that the projected depths of each of these holes (600' and 700", respectively) was not reached due to the intersection of a significantly mineralized section at shallower depths. The possibility of another sulfide section at greater depth should not be overlooked before the program is completed.

LEASING ACTIVITY.

The following lease has been taken since date of original application. Copy of this lease will be forwarded to OME at Washington.

Lease No. 9.0-1-128

Sidney M. and Katherine H. Bird, 14 Acres.

Telephone Maine 3-3302

Hand Sample Serial 11911-11915

Mineral Engineering

Roland F. Beers, Inc.
Box 84
Rockport, Maine

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary

Salt Lake City 10, Utah

RESULTS PER TON OF 2000 POUNDS

June 1, 1961

RECEIVED JUN 7 1961

NO.	GOLD Ozs. per Ton	SILVER Ozs. per ton	LEAD Per Cent Wet	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent Ni	Per Cent Co	VALUE GOLD
Nickel Ore												
E-60-2-1				0.497			18.17	32.8		0.951	0.095	
E-60-2-2				0.371			16.66	29.8		0.886	0.103	
E-60-2-3				0.648			18.90	35.6		1.008	0.103	
E-60-2-4				0.422			21.19	38.4		1.097	0.110	
E-60-2-5				0.522			20.64	37.2		1.097	0.103	
				0.472			19.11	35.0		1.008	0.103	

45.00
15.00
60.00

Remarks

Charges $ 60.00

W. C. Wanlass

DRILL LOG

Hole No.:	E-52-2	Angle:	-60°
Location:	52.2 S - 6.2E	Azimuth:	N 72° W
	Crawford Pond	Depth:	420'
	Ice Grid	Elevation:	120' (water level + 10')
	Coordinates	Logged by:	D. E. Wyke
			5/14/61 to 5/31/61

Drill Hole Data:

0' 0" - 20' 0"	BX casing
0' 0" - 0' 6"	Soil (no core)
0' 6" - 290' 0"	BX wireline core
290' 0" - 420' 0"	AX core (water recovery for sludge)

Depth	Lithology
0' 0" - 0' 6"	Soil.
0' 6" - 4' 3"	Pegmatite: quartz, biotite, muscovite.
4' 3" - 6' 0"	Schist: quartz, biotite.
6' 0" - 11' 1"	Pegmatite: quartz, biotite, muscovite.
11' 1" - 12' 4"	Schist: quartz, biotite, chlorite, hornblende; minor pyroxene evident.
12' 4" - 49' 5"	Pegmatite: quartz, muscovite; minor biotite; 46' 0" - 47' 3" quartz-biotite schist.
49' 5" - 84' 10"	Pegmatized marble: quartz-muscovite pegmatite.
84' 10" - 94' 7"	Pegmatite: quartz, muscovite.
94' 7" - 116' 3"	Marble: pegmatized; lower 1' contains quartz-biotite schist and dark gray marble.
116' 3" - 120' 3"	Pegmatized limey hornblende schist: transition zone.
120' 3" - 127' 9"	Schist: quartz, hornblende; some biotite; calcite in fractures; becomes limey in lower 1'.

Depth	Lithology
127' 9" - 149' 1"	Marble: pegmatized; some bands of limey schist; shistose 136' - 149'.
149' 1" - 150' 3"	Pegmatite: quartz, muscovite.
150' 3" - 175' 0"	Schist: quartz, biotite; bands of garnet; pegmatized; 156' 6" - 157' 3" hornblende schist; 166' 10"- 168' 2" pegmatite; 172' 6" - 173' 0" mica schist; 168' 2" - 175' 0" limey.
175' 0" - 181' 8"	Schist: mica, chlorite; limey; disseminated garnet.
181' 8" - 183' 1"	Pegmatite: quartz, muscovite.
183' 1" - 190' 11"	Schist: mica, chlorite; talcose; abundant desseminated garnet; 188' 2" - 189' 2" minor disseminated copper.
190' 11" - 195' 6"	Schist: quartz, garnet; some chlorite; limey; probably dolomitic or altered dolomite.
195' 6" - 224' 9"	Schist: mica, chlorite, garnet; talcose; calcite in fractures; very minor disseminated copper; below 206' graphite present with associated pyrite; pyrrhotite parallel to schistosity - 1%; schistosity angle generally 90° to core axis.
224' 9" - 251' 3"	Schist: quartz, biotite, garnet; graphite; minor pyrite and pyrrhotite.
251' 3" - 280' 10"	Schist: quartz, chlorite; white mica abundant; minor biotite; minor pyrite and pyrrhotite; graphite 1% to 2%; schistosity angle generally 60° to 80°; 261' 2"-262' 3" biotite rich.
280' 10" - 287' 7"	Pegmatite: quartz, muscovite; 282' 3" - 283' 2" mica schist.
287' 7" - 288' 2"	Schist: quartz, biotite, chlorite; garnet and graphite present; pyrite associated with graphite; minor pyrrhotite parallel to schistosity; schistosity angle 60°.

Depth	Lithology
288' 2" - 293' 6"	Pegmatite: quartz, muscovite.
293' 6" - 302' 5"	Schist: quartz, biotite; minor garnet; poor schistosity.
302' 5" - 308' 4"	Pegmatite: quartz, muscovite; 2" to 3" bands quartz-biotite schist.
308' 4" - 335' 7"	Schist; Quartz, biotite, chlorite; disseminated garnet; graphite and associated pyrite; pyrrhotite 1% parallel to schistosity; pegmatized to 18"; broken 1% 310' 8" - 318' 3"; lower 9" biotite rich; some 4" to 6" bands quartz-biotite pegmatite.
335' 7" - 350' 3"	Schist: quartz, biotite, hornblende; probably mostly norite; minor pyrrhotite; lower 9" serpentinized.
350' 3" - 400' 0"	Peridotite: pyroxene, chlorite, minor biotite; top 16" barren; generally high copper content; 350' 3" - 351' 9" pyrrhotite 1% to 2%; 351' 9" - 353'5" pyrrhotite 5% to 10%; 353' 5" - 354'6" quartz vein with 10% to 25% pyrrhotite; 354' 6" - 359' 0" pyrrhotite 20%; 359' 0" - 361' 0" pyrrhotite 25%; 361' 0" 362' 1" pyrrhotite 20% to 25%; 362' 1" - 362' 2" pyrrhotite massive; 362' 2" - 363' 3" quartz-biotite schist with 10% pyrrhotite; 363' 3" - 365' 8" pyrrhotite to 30%; 365' 8" - 366' 2" Quartz vein; 366' 2" - 371' 8" pyrrhotite to 25%; 371' 8" - 372' 9" quartz, serpentine, pyroxene, pyrrhotite to 15%; copper to 5%; 372'9" - 375' 4" gabbroic; pyrrhotite 10%, copper to 5%; 375' 4" - 376' 3" dominantly quartz with semi-massive pyrrhotite, high copper; 376' 3" - 376' 7" quartz-biotite schist; 376' 7" - 377' 1" rose quartz; 377' 1" - 378' 0" pyrrhotite to 10%; 378' 0" - 378' 2" pyrrhotite massive;

Depth	Lithology
	378' 2" - 379' 11" pyrrhotite to 30%; 379' 11" - 383' 0" quartz top 10" then gabbroic with pyrrhotite to 15%; 383' 0" - 384' 7" pyrrhotite to 15%; 384' 7" - 385' 3" pegmatite with pyrrhotite to 20%; 385' 3" - 388' 0" pyrrhotite 30%; 388' 0" - 397' 6" pyrrhotite to 15%; 397' 6" - 398' 3" quartz with 10% pyrrhotite; lower 1/2" massive; 398' 3" - 400' 0" pegmatized peridotite; pyrrhotite to 5%.
400' 0" - 420' 0"	Schist: quartz, biotite, chlorite; graphite 1% to 3%; associated pyrite; pyrrhotite to 1% parallel to schistosity decreasing to -1% at bottom of hole.

* * * TDA 420' 0" * * *

ASSAYS: N.G.

E-52-2-1	350' 3" - 355' 0" –
E-52-2-2	355' 0" - 360' 0" –
E-52-2-3	360' 0" - 365' 0" –
E-52-2-4	365' 0" - 370' 0" –
E-52-2-5	370' 0" - 375' 0" –
E-52-2-6 ✓	375' 0" - 380' 0" –
E-52-2-7	380' 0" - 385' 0" –
E-52-2-8	385' 0" - 390' 0" –
E-52-2-9	390' 0" - 395' 0" –
E-52-2-10	395' 0" - 400' 0" –

DRILL LOG

Hole No.:	E-60-2	Angle:	-60°
Location:	60.00 S + 5.52 E	Azimuth:	N. 63° 30' W.
	Crawford Pond	Depth:	420'0"
	Ice Grid	Elevation:	120' (water level + 10')
	Coordinates	Logged by:	D. E. Wyke
			5/1/61 to 5/13/61

Drill Hole Data:

0' 0" - 20' 0"	BX casing
16' 8" - 420' 0"	Diamond Drill Core

Depth	Lithology
0' 0" 16' 8"	Soil
16' 8" - 25' 7"	Pegmatite or pegmatized schist: quartz, biotite, minor basic feldspar; medium grained; uniformly granular; no schistosity; quartz veins: 23'4" - 23'5" 24'6" - 24'7" 24'11"-25'7"
25' 7" -33' 11"	Schist: quartz, biotite; pegmatized in sections; calcite in fractures; pegmatite veins: 26'3" - 26'7" 26'11" - 28'8" 29'2" - 29'8"
33' 11" - 37' 10"	Marble and dolomite: evidence of talc; few narrow bands of quartz-biotite schist.
37' 10" - 45' 1"	Schist: quartz, biotite; coarse-grained; crystals altered as in flow rock; 37'10" - 38'9" Schist: quartz, biotite; minor calcite; 38'9" - 39'0" quartz vein.
45' 1" - 49' 5"	Dolomitic marble: altered; few 1" bands of quartz-biotite schist.
49' 5" - 53' 10"	Pegmatite: quartz, muscovite.

Depth	Lithology
53' 10" - 71' 9"	Schist: quartz, biotite, muscovite; strong pegmatization in upper 13"; calcite in fractures.
71' 9" - 76' 11"	Marble: altered; soft; fractured; subjected to ground water action; pegmatized in upper 4'.
76'11" - 90'2"	Mica schist: generally fine-grained; abundant calcite; calcite increases in weathered and friable zone from 83'0" - 90'2".
90'2" - 121'0"	Marble: white to 102'0"; micaceous below 102'0"; weathered and soft below 110'5".
121'0" - 136'4"	Schist: quartz, biotite; some 1" to 2" quartz veins; minor fractures with calcite; schistosity angles with core axis: 122' 40° 125' 0° (drag) 132' 70° 134' 65°
136'4" - 140'0"	Pegmatite: quartz, biotite; narrow bands quartz-biotite schist.
140'0" - 153'10"	Schist: quartz, biotite; strongly pegmatized.
153'10" - 159'4"	Pegmatized Marble: some 1" to 3" quartz veins.
159'4" -160'6"	Schist: quartz, biotite; schistosity angle with core axis: 50°.
160'6" - 183'1"	Marble: 160'6" - 168'2" pegmatized; 168'2" - 168'8" quartz-biotite schist; 168'8" - 180'4" impure and weathered.
183' 1" - 184' 8"	Pegmatite: quartz, muscovite.
184' 8" - 190' 1"	Schist: quartz, biotite.
190' 1" - 192' 0"	Pegmatite: quartz, biotite, muscovite.

Depth	Lithology
192'0" - 200' 7"	Schist: quartz, biotite, garnet; strong pegmatization; schistosity angle 45°.
200' 7" - 201' 10"	Schist: quartz, biotite.
201' 10" - 206' 1"	Schist: quartz, biotite, garnet; chloritic; strongly pegmatized; occasional pyrrhotite crystal adjacent to garnet crystal; some pyrite veinlets.
206' 1" - 208' 10"	Schist: quartz, biotite, chlorite; garnet bands to 1/2"; very minor pyrrhotite; minor pyrite; schistosity angle with core axis; 206' 75° 210' 75° 215' 75° 220' 75°
208' 10" - 228' 10"	Schist: quartz, biotite, chlorite; disseminated garnet.
228' 10" - 239' 9"	Schist: quartz, biotite, chlorite; minor graphite parallel to schistosity; pyrite associated with graphite.
239' 9" - 301' 0"	Schist: quartz, biotite, garnet, chlorite; serpentinized and calcite in fractures; minor graphite; pyrite associated with graphite; quartz-biotite-garnet pegmatite 242' 2" - 243' 10"; schistosity angle with core axis generally 60° to 70°; pyrrhotite noticeable below 201' 10" and is now approaching 1%; pyrrhotite generally parallel to schistosity.
301' 0" - 327' 2"	Schist; quartz, biotite, chlorite: section as above except garnet in bands 1" to 2".
327' 2" - 328' 6"	Pegmatite; quartz, biotite.
328' 6" - 344' 3"	Schist: quartz, biotite, chlorite: disseminated garnet; graphite and pyrite present; pyrrhotite approximately 1%; section strongly pegmatized.

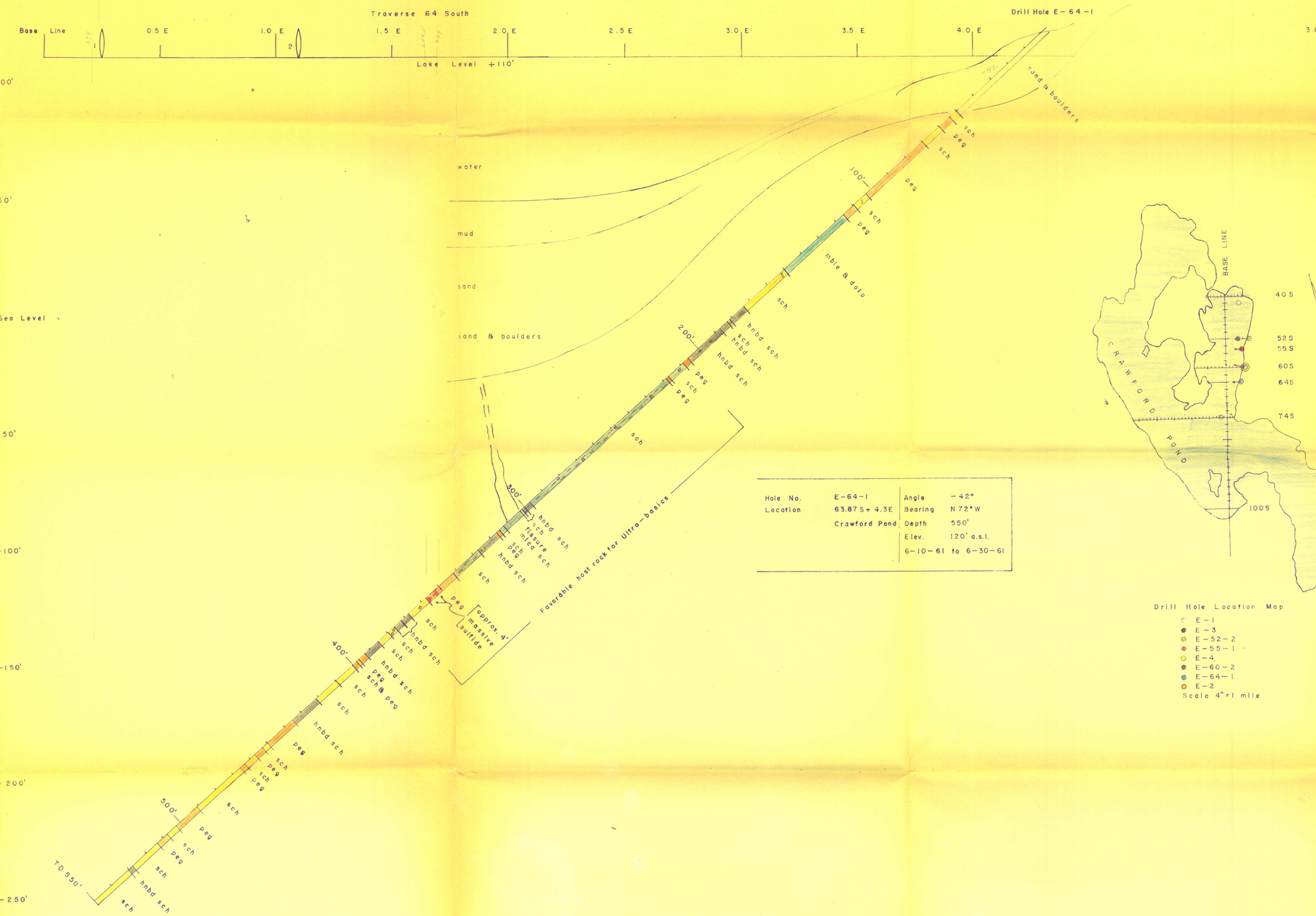
Depth	Lithology
344' 3" - 353' 7"	Schist: quartz, hornblende, biotite; strongly pegmatized.
353' 7" - 357' 0"	Schist: quartz, biotite, garnet, chlorite; serpentinized; calcite in fractures; graphite 1% plus; disseminated garnet; pyrrhotite 1% plus; section pegmatized.
357' 0" - 369' 9"	Schist: quartz, hornblende, biotite; quartz bands; some garnet; serpentine in lower 1'.
369' 9" - 394' 4"	Peridotite: black; probably augite; generally unaltered; some evidence of chlorite; pyrrhotite 70% and uniformly disseminated; 377' 0" - 377' 4" massive pyrrhotite; 377' 4" - 379' 1" pyrrhotite content drops to 20% in 4" biotite rich zone then increases to 70% at bottom of this zone; 393' 9" - 394' 1" massive pyrrhotite. 394' 1" - 394' 4" probably altered schist with pyrrhotite content 50%.
394' 4" - 420' 0"	Schist: quartz, biotite, chlorite; graphite to 1% parallel to schistosity; 2" to 4" pegmatite veins of quartz-biotite-minor muscovite.

* * * TDA 420' * * *

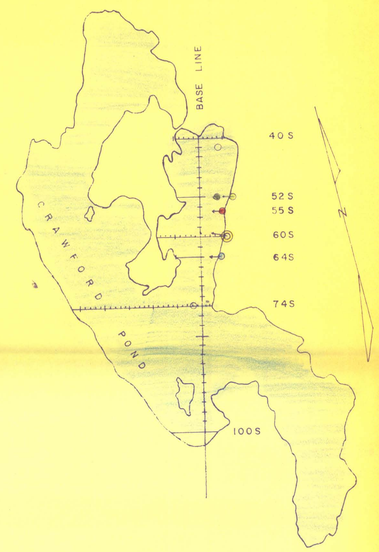
ASSAYS: Ni, Cu, Co, Fe, S.

E-60-2-1	369' 9" - 374' 9"
E-60-2-2	374' 9" - 379' 9"
E-60-2-3	379' 9" - 384' 9"
E-60-2-4	384' 9" - 389' 9"
E-60-2-5	389' 9" - 394' 4"

DRILL HOLE CROSS-SECTION MAP



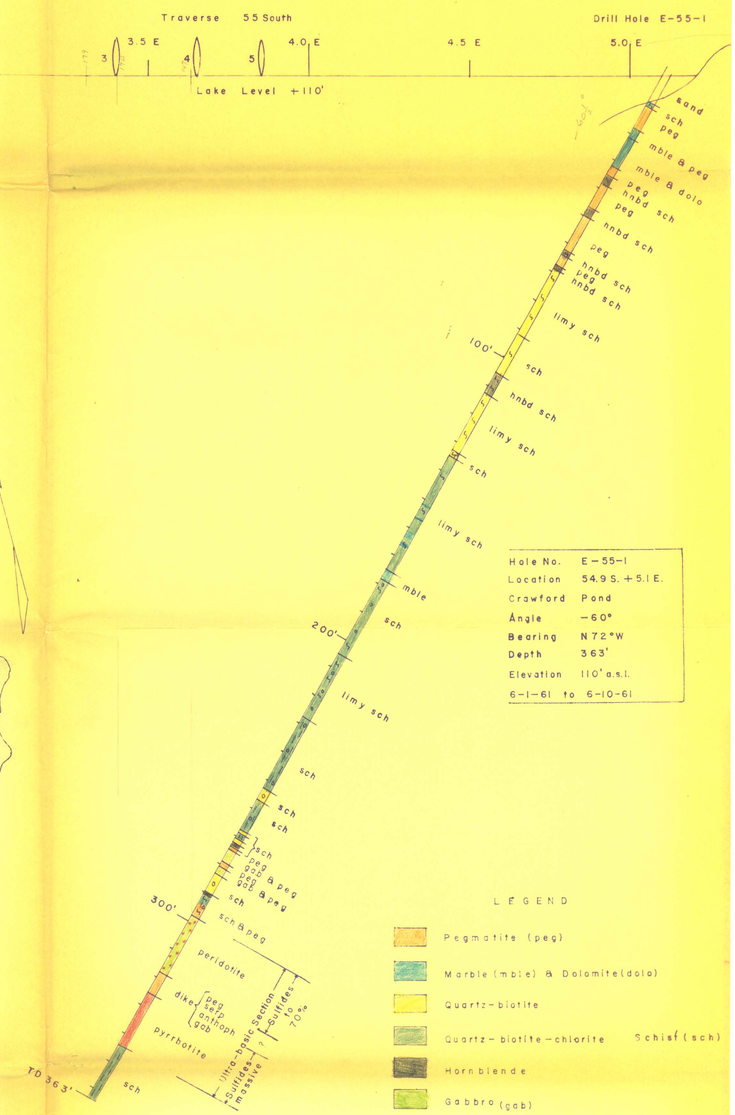
Hole No.	E-64-1	Angle	-42°
Location	63.87 S + 4.3 E	Bearing	N 72° W
	Crawford Pond	Depth	550'
		Elev.	120' a.s.l.
		6-10-61 to 6-30-61	



Drill Hole Location Map

- E-1
- E-3
- E-52-2
- E-55-1
- E-4
- E-60-2
- E-64-1
- E-2

Scale 4" = 1 mile

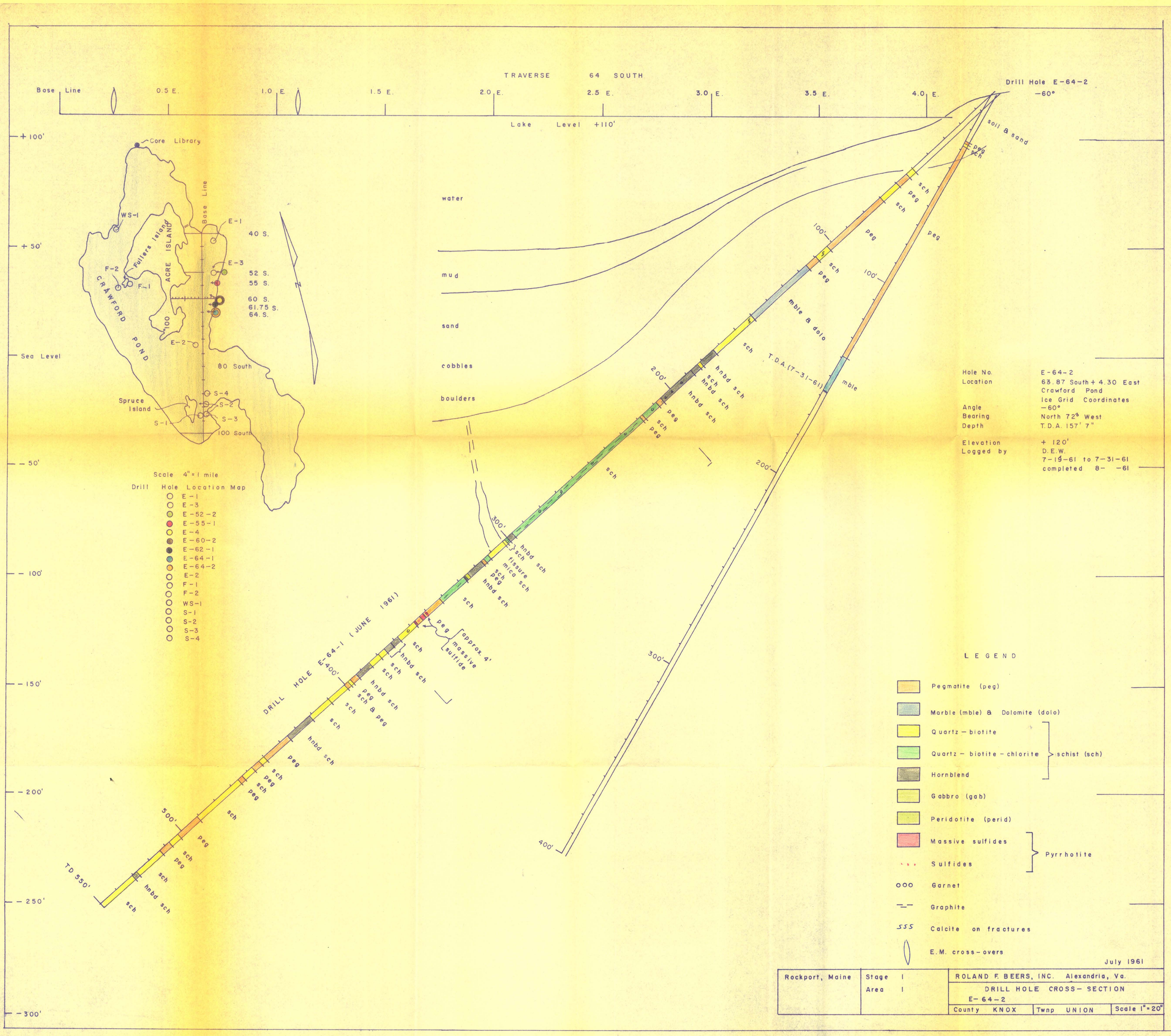


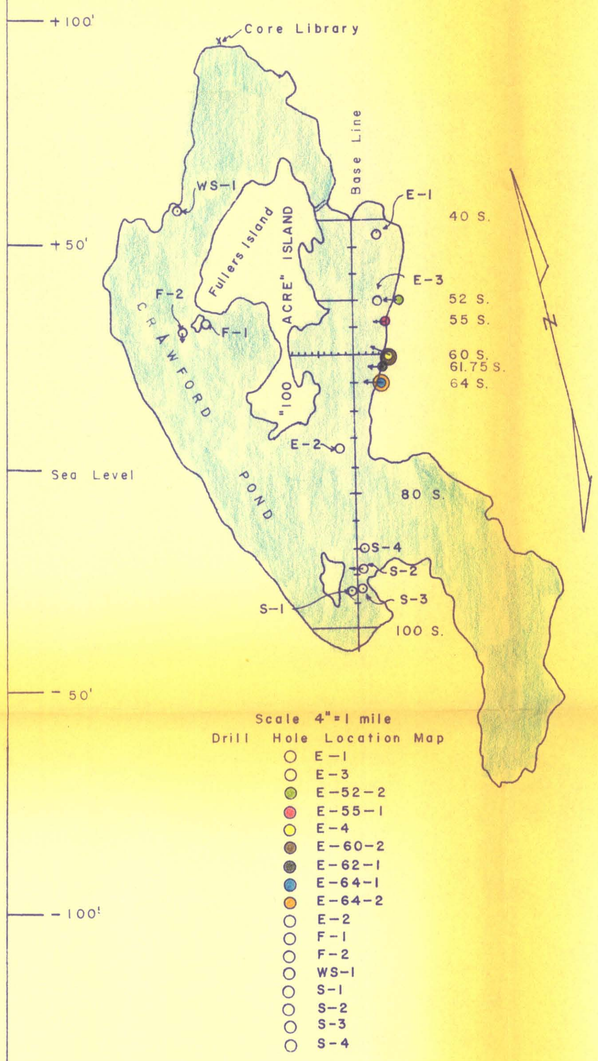
Hole No.	E-55-1
Location	54.9 S. + 5.1 E.
Crawford	Pond
Angle	-60°
Bearing	N 72° W
Depth	363'
Elevation	110' a.s.l.
6-1-61 to 6-10-61	

LEGEND

- Pegmatite (peg)
- Marble (mble) & Dolomite (dolo)
- Quartz-biotite
- Quartz-biotite-chlorite — Schist (sch)
- Hornblende
- Gabbro (gab)
- Peridotite (perid)
- Massive Sulfides } Pyrrhotite
- Sulfides } Pyrrhotite
- Garnet
- Graphite
- Calcite on fractures
- E.M. Cross-over

Rockport, Maine June 1961	Stage I Area I	Roland F. Beers, Inc. Alexandria, Virgi DRILL HOLES E-55-1 & E-64-1 County Knox Twnp. Union Sca


TRAVERSE 64 SOUTH
Base Line
0.5 E.
1.0 E.
1.5 E.
2.0 E.
2.5 E.
3.0 E.
3.5 E.
4.0 E.
Lake Level +110'
Drill Hole E-64-2
-60°
+100'
+50'
Sea Level
-50'
-100'
-150'
-200'
-250'
-300'
Core Library
WS-1
Fullers Island
ACRE ISLAND
CRAWFORD POND
F-2
F-1
Base Line
E-1
40 S.
E-3
52 S.
55 S.
60 S.
61.75 S.
64. S.
100
E-2
80 South
Spruce Island
S-4
S-2
S-3
S-1
100 South
Scale 4" = 1 mile
Drill Hole Location Map
E-1
E-3
E-52-2
E-55-1
E-4
E-60-2
E-62-1
E-64-1
E-64-2
E-2
F-1
F-2
WS-1
S-1
S-2
S-3
S-4
water
mud
sand
cobbles
boulders
soil & sand
peg
sch
mble & dolo
T.D.A. (7-31-61)
mble
hnbd sch
fissure
mica sch
approx. 4'
massive
sulfide
sch & peg
DRILL HOLE E-64-1 (JUNE 1961)
TD 550'
100'
200'
300'
400'
500'
Hole No. E-64-2
Location 63.87 South + 4.30 East
Crawford Pond
Ice Grid Coordinates
Angle -60°
Bearing North 72° West
Depth T.D.A. 157' 7"
Elevation + 120'
Logged by D.E.W.
7-19-61 to 7-31-61
completed 8- -61
LEGEND
Pegmatite (peg)
Marble (mble) & Dolomite (dolo)
Quartz - biotite
Quartz - biotite - chlorite
Hornblend
schist (sch)
Gabbro (gab)
Peridotite (perid)
Massive sulfides
Sulfides
Pyrrhotite
Garnet
Graphite
Calcite on fractures
E.M. cross-overs
July 1961
Rockport, Maine
Stage I
Area I
ROLAND F. BEERS, INC. Alexandria, Va.
DRILL HOLE CROSS-SECTION
E-64-2
County KNOX
Twnp UNION
Scale 1" = 20'



Scale 4" = 1 mile

Drill Hole Location Map

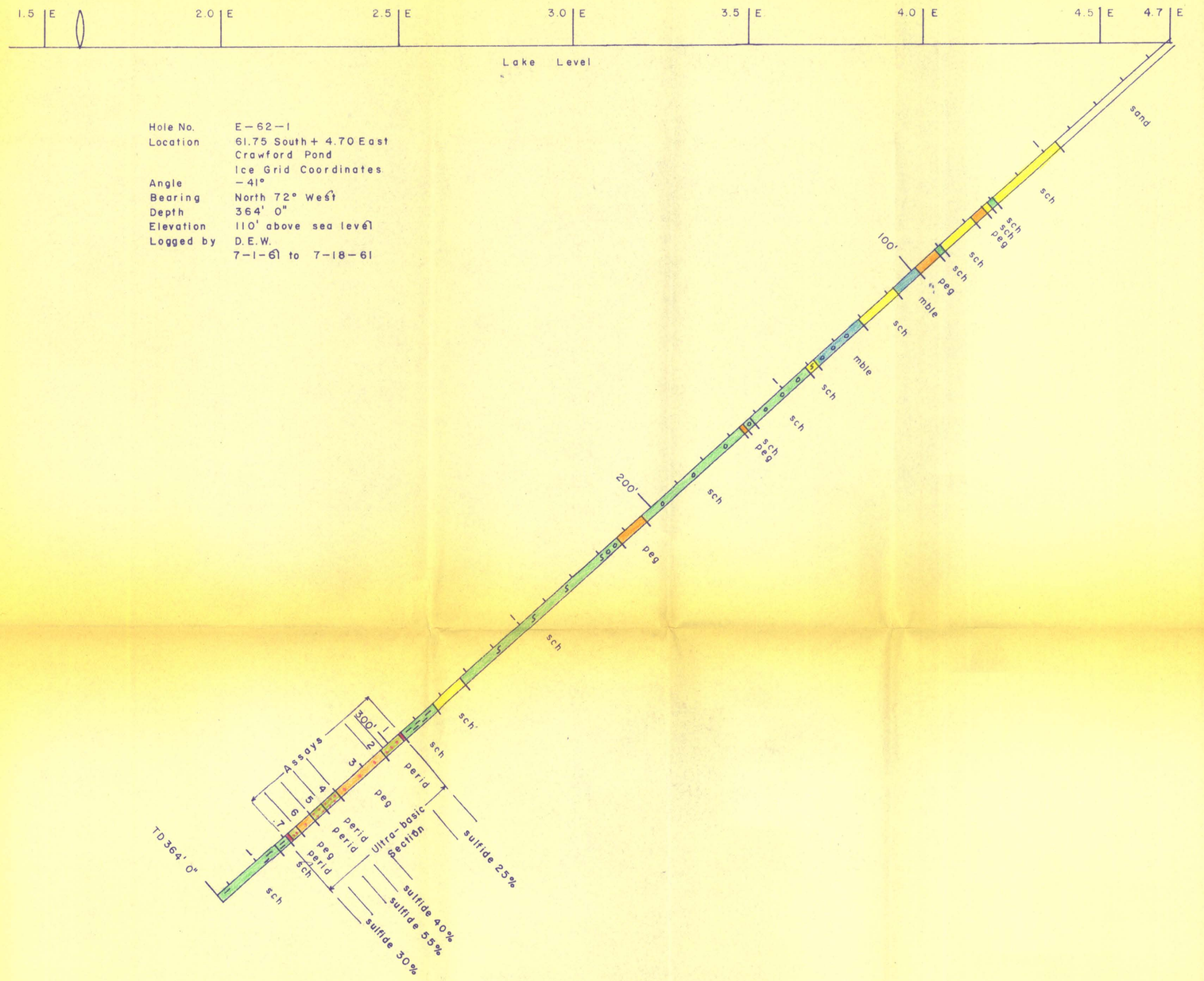
- E-1
- E-3
- E-52-2
- E-55-1
- E-4
- E-60-2
- E-62-1
- E-64-1
- E-64-2
- E-2
- F-1
- F-2
- WS-1
- S-1
- S-2
- S-3
- S-4

LEGEND

- Pegmatite (peg)
- Marble (mble) & Dolomite (dolo)
- Quartz - biotite schist (sch)
- Quartz - biotite - chlorite schist (sch)
- Hornblend schist (hnbd sch)
- Gabbro (gab)
- Peridotite (perid)
- Massive sulfides } Pyrrhotite
- Sulfides } Pyrrhotite
- Garnet (gar)
- Graphite
- Calcite on fractures
- E. M. Cross-over

Drill Hole E-62-1

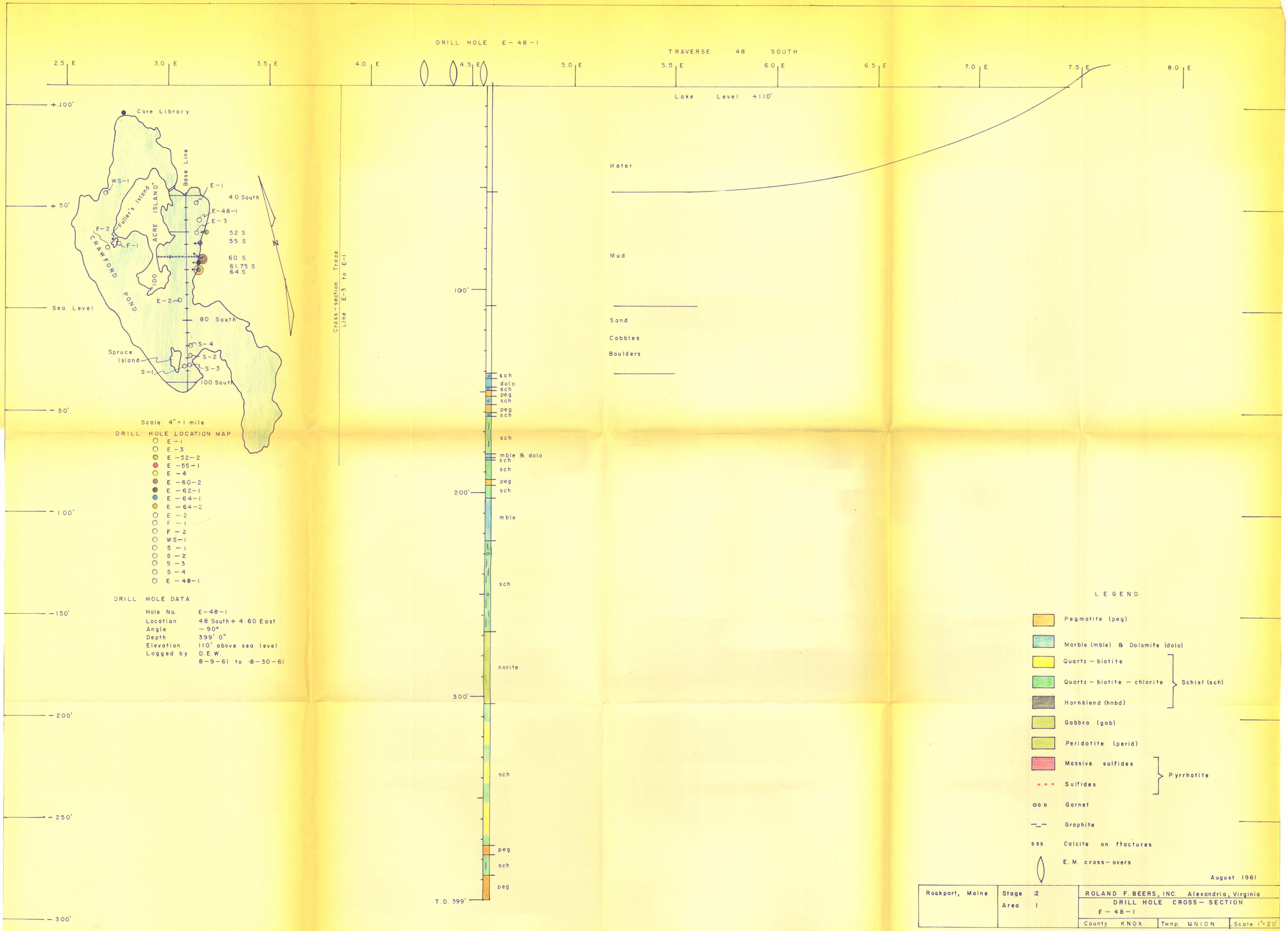
Traverse 61.75 South

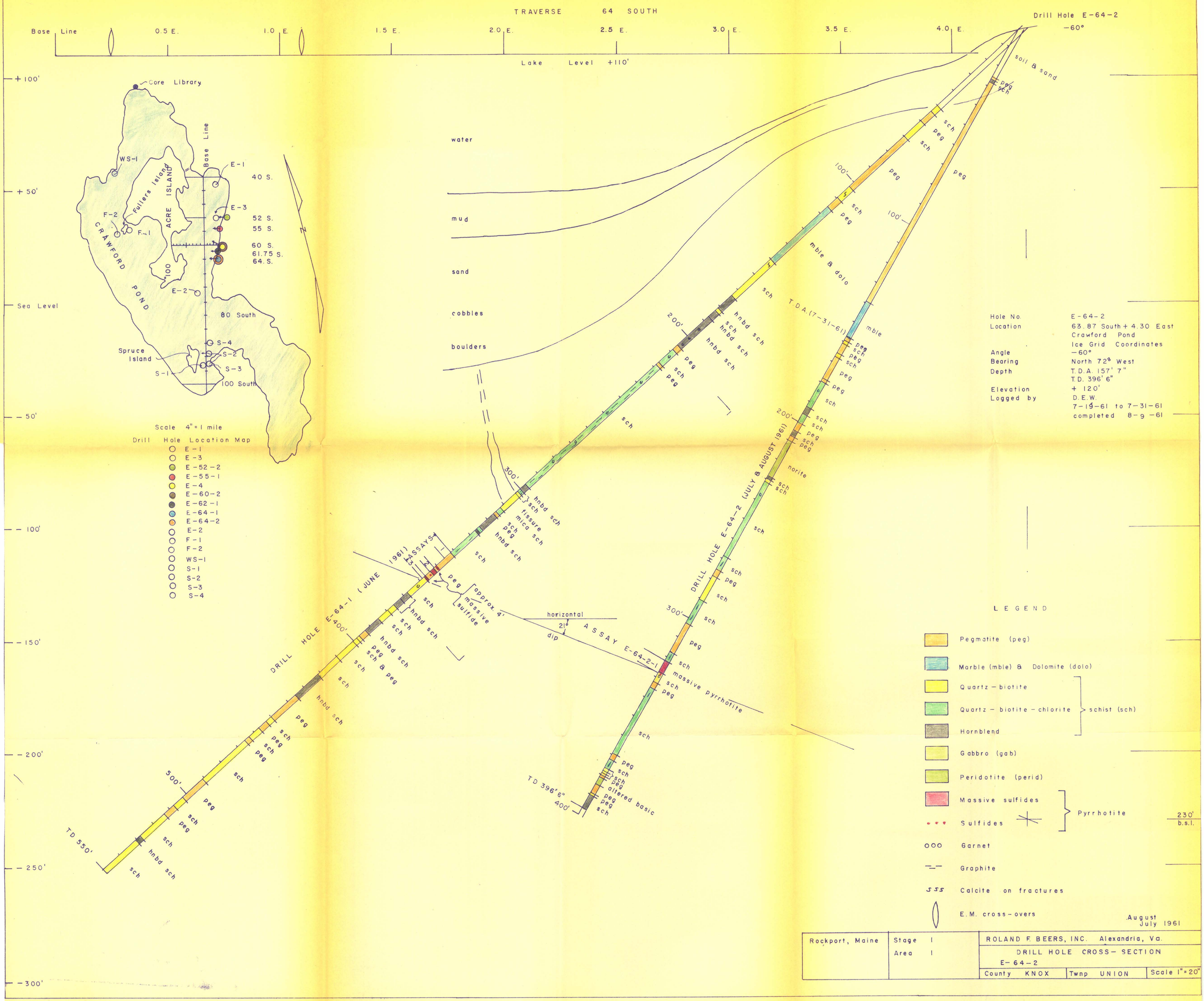


Hole No.	E-62-1
Location	61.75 South + 4.70 East Crawford Pond Ice Grid Coordinates
Angle	-41°
Bearing	North 72° West
Depth	364' 0"
Elevation	110' above sea level
Logged by	D.E.W. 7-1-61 to 7-18-61

JULY 1961

Rockport, Maine	Stage 1 Area 1	ROLAND F. BEERS, INC. Alexandria, Va. DRILL HOLE CROSS SECTION E-62-1
		County KNOX · Twnp. UNION · Scale 1" = 20'


DRILL HOLE E-48-1
TRAVERSE 48 SOUTH
2.5 E
3.0 E
3.5 E
4.0 E
4.5 E
5.0 E
5.5 E
6.0 E
6.5 E
7.0 E
7.5 E
8.0 E
Lake Level +110'
+100'
+50'
Sea Level
-50'
-100'
-150'
-200'
-250'
-300'
Core Library
Base Line
WS-1
Fuller's Island
"ACRE ISLAND"
E-1
4.0 South
E-48-1
E-3
52 S
55 S
60 S
61.75 S
64 S
F-2
F-1
CRAWFORD POND
100
E-2
80 South
S-4
Spruce Island
S-2
S-1
S-3
100 South
N
Scale 4" = 1 mile
DRILL HOLE LOCATION MAP
E-1
E-3
E-52-2
E-55-1
E-4
E-60-2
E-62-1
E-64-1
E-64-2
E-2
F-1
F-2
WS-1
S-1
S-2
S-3
S-4
E-48-1
DRILL HOLE DATA
Hole No. E-48-1
Location 48 South + 4.60 East
Angle -90°
Depth 399' 0"
Elevation 110' above sea level
Logged by D.E.W.
8-9-61 to 8-30-61
Cross-section Trace
Line E-3 to E-1
100'
200'
300'
T.D. 399'
sch
dolo
sch
peg
sch
peg
sch
sch
mble & dolo
sch
sch
peg
sch
mble
sch
norite
sch
peg
sch
peg
Water
Mud
Sand
Cobbles
Boulders
LEGEND
Pegmatite (peg)
Marble (mble) & Dolomite (dolo)
Quartz - biotite
Quartz - biotite - chlorite
Hornblend (hnbd)
Schist (sch)
Gabbro (gab)
Peridotite (perid)
Massive sulfides
Sulfides
Pyrrhotite
Garnet
Graphite
Calcite on fractures
E. M. cross-overs
August 1961
Rockport, Maine
Stage 2
Area 1
ROLAND F. BEERS, INC. Alexandria, Virginia
DRILL HOLE CROSS-SECTION
E-48-1
County KNOX
Twnp. UNION
Scale 1" = 20'


TRAVERSE 64 SOUTH
Base Line
0.5 E.
1.0 E.
1.5 E.
2.0 E.
2.5 E.
3.0 E.
3.5 E.
4.0 E.
Lake Level +110'
Drill Hole E-64-2
-60°
+100'
+50'
Sea Level
-50'
-100'
-150'
-200'
-250'
-300'
Core Library
WS-1
Fullers Island
ACRE ISLAND
Base Line
E-1
40 S.
E-3
52 S.
55 S.
60 S.
61.75 S.
64. S.
F-2
F-1
CRAWFORD POND
100
E-2
80 South
S-4
Spruce Island
S-2
S-3
S-1
100 South
Scale 4" = 1 mile
Drill Hole Location Map
E-1
E-3
E-52-2
E-55-1
E-4
E-60-2
E-62-1
E-64-1
E-64-2
E-2
F-1
F-2
WS-1
S-1
S-2
S-3
S-4
water
mud
sand
cobbles
boulders
soil & sand
peg
sch
mble & dolo
T.D.A. (7-31-61)
mble
hnbd sch
fissure
mica sch
norite
altered basic
DRILL HOLE E-64-1 (JUNE 1961)
DRILL HOLE E-64-2 (JULY & AUGUST 1961)
ASSAYS
approx. 4' massive sulfide
horizontal
21°
dip
ASSAY E-64-2-1
massive pyrrhotite
sch & peg
TD 550'
TD 396'6"
100'
200'
300'
400'
500'
Hole No. E-64-2
Location 63.87 South + 4.30 East
Crawford Pond
Ice Grid Coordinates
Angle -60°
Bearing North 72° West
Depth T.D.A. 157' 7"
T.D. 396' 6"
Elevation + 120'
Logged by D.E.W.
7-19-61 to 7-31-61
completed 8-9-61
LEGEND
Pegmatite (peg)
Marble (mble) & Dolomite (dolo)
Quartz - biotite
Quartz - biotite - chlorite
Hornblend
schist (sch)
Gabbro (gab)
Peridotite (perid)
Massive sulfides
Sulfides
Pyrrhotite
Garnet
Graphite
Calcite on fractures
E.M. cross-overs
230' b.s.l.
August July 1961
Rockport, Maine
Stage 1
Area 1
ROLAND F. BEERS, INC. Alexandria, Va.
DRILL HOLE CROSS-SECTION
E-64-2
County KNOX
Twnp UNION
Scale 1" = 20'