



State of New Jersey  
Department of Environmental Protection  
Geological Survey



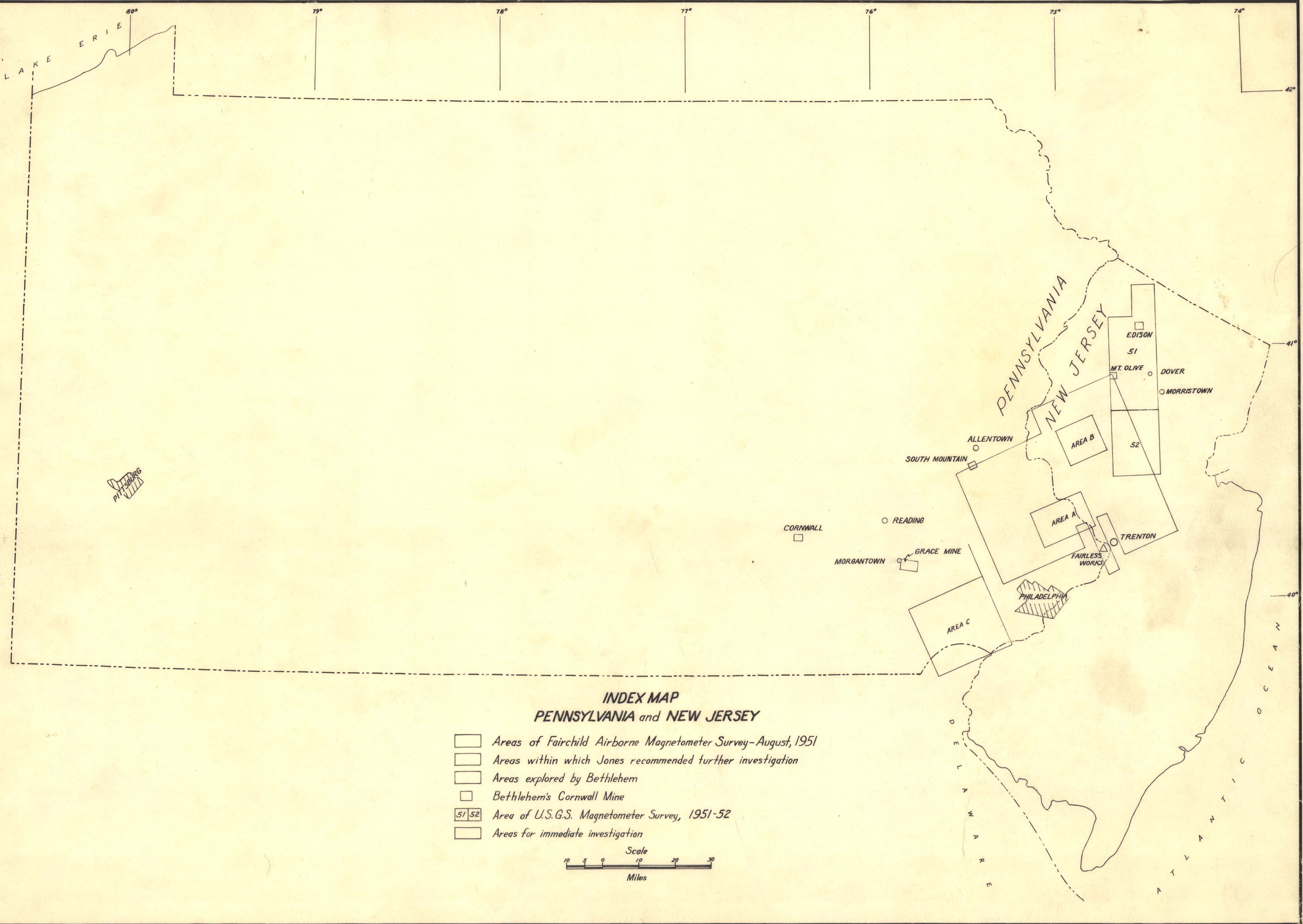
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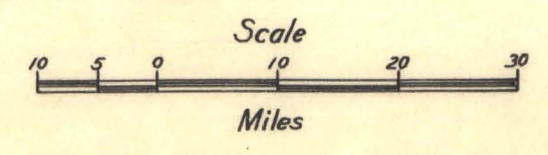
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**INDEX MAP  
PENNSYLVANIA and NEW JERSEY**

- Areas of Fairchild Airborne Magnetometer Survey—August, 1951
- Areas within which Jones recommended further investigation
- Areas explored by Bethlehem
- Bethlehem's Cornwall Mine
- Area of U.S.G.S. Magnetometer Survey, 1951-52
- Areas for immediate investigation







MAP OF  
NEW JERSEY  
SHOWING LOCATION  
OF  
NORTHERN NEW JERSEY  
MAGNETIC IRON ORE  
DISTRICT.

Scale of Miles  
0 5 10 15 20

LEGEND  
 Magnetic Iron Ore District.



GEOLOGICAL SURVEY OF NEW JERSEY  
**NEW JERSEY**

MAP  
SHOWING LOCATION OF THE  
**PRINCIPAL IRON MINES**  
1890.

Scale: 5 miles to an inch  
MILES

KILOMETERS



**KEY TO MINES.**

Working in 1890 underscored & Hematite.	
1 Shoemaker, Fritts, Roseberry.	Mines
2 Kaver	"
3 Helvidere Mines (Queen, Fellows, Little).	"
4 Rauh Mine.	"
5 Oxford Mines, Washington, Slope No. 3.	"
6 Kilmanslack	Mine.
7 Pequet	"
8 West End	"
9 Swayze	"
10 High Bridge	"
11 Andover Mine.	"
12 Roseville	"
13 Stanhore or Hude	Mine.
14 Mount Olive	"
15 Church	"
16 Chester	"
17 Hacklebarney	"
18 Gove	Mine
19 Horton	"
20 Henderson	"
21 Franklin Furnace	Mines.
22 Sterling Hill	"
23 Ogden	"
24 Seefeld, Ford, Dodge	"
25 Waldon	"
26 Hightstown	"
27 Hill	"
28 Johnson Hill	"
29 Orono and Washington	Mines.
30 Clark, Harvey, New Steeling	Mines.
31 Ironside	"
32 Jackson Hill, Randall Hill	"
33 Mills, Baker and Bryan	"
34 Dickerson	"
35 Bryant	Mine.
36 Horton	"
37 Dalrymple	"
38 Conahs	"
39 Mount Pleasant	"
40 Mount Hope	"
41 Hickory Hill	"
42 Teabo	"
43 Swedes	Mine.
44 White Meadow	Mines.
45 Beach Glen	"
46 Beach	"
47 Hibernia	Mines.
48 Davenport, Winter, Pardee	"
49 Green Pond	"
50 Howell	Mine.
51 Cheselottsburgh	Mine.
52 Cobb	"
53 Rockaway Valley	"
54 Clinton	"
55 Canisteot	"
56 Poshok	"
57 Edsall	"
58 Williams	"
59 Wawayanda and Green	Mines.
60 Kanouse	Mine.
61 Board	"
62 Cannon, Hard, Blue	"
63 Folan	"
64 Hope	"
65 Snyder Mine, Hewitt	"
66 Ward	"
67 Sterling, N. Y.	"
68 Southfield, N. Y.	"
69 O'Neil, N. Y.	"
70 Durham, Penn.	"
71 Connet	Mine.
72 Kahart	"
73 Pompton	"
74 Butler	"
75 Old Furnace	"
76 Fox Hill	"
77 Longdon	"
78 Hodges	"
79 Cooper & Swayze	"
80 Squires	"
81 Lewis or Heriot	"
82 George or Logan	"
83 King	"
84 Evans	"
85 Brotherton	"
86 Bryant	"
87 Allen	"
88 Asbury	"
89 Inger	"
90 Van Stockes	"
91 Beattystown	"
92 Stoutenburgh	"
93 Naughtright	"
94 Waresco	"
95 Smith or Cascade	"
96 Stables	"
97 Wallace	"
98 Centennial	"
99 Fawcett or Warwick, N. Y.	"
100 Schuler	"
101 Howell	"
102 Tax Hill	"



GEOLOGICAL SURVEY OF NEW JERSEY.

NORTHERN NEW JERSEY,

SHOWING THE  
IRON-ORE & LIMESTONE DISTRICTS.

GEORGE H. COOK, State Geologist.

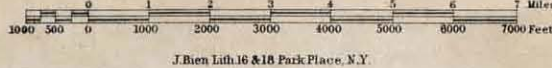
JOHN C. SMOCK, Asst. Geologist.

1874

SCALE

Horizontal 2 miles to an inch.

Vertical 2000 feet to an inch.



COLUMNAR SECTION  
GEOLOGICAL FORMATIONS  
IN NEW JERSEY.

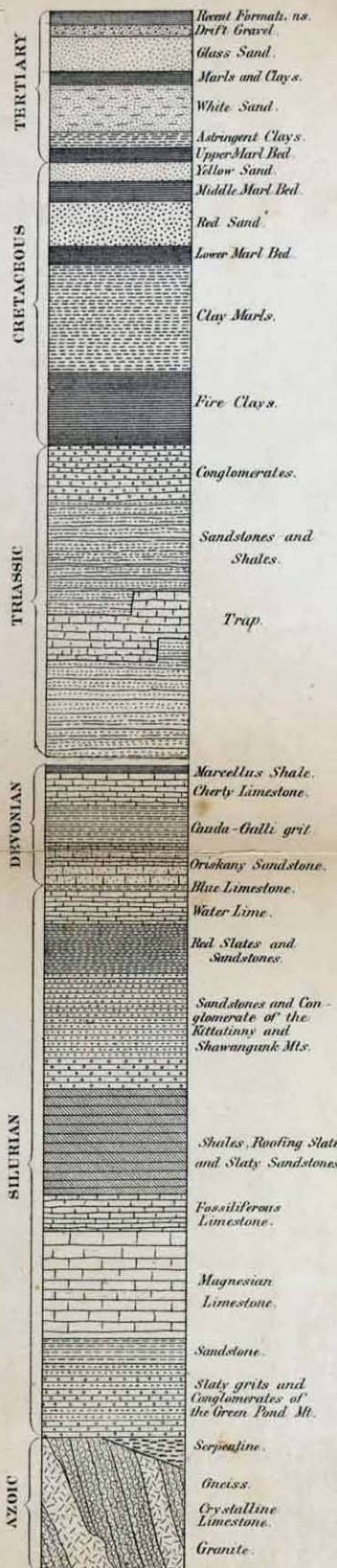
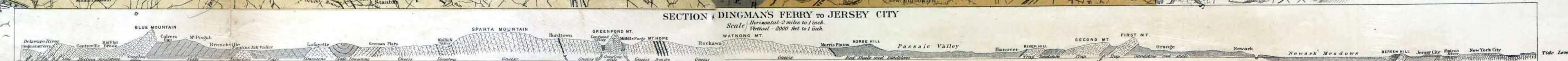
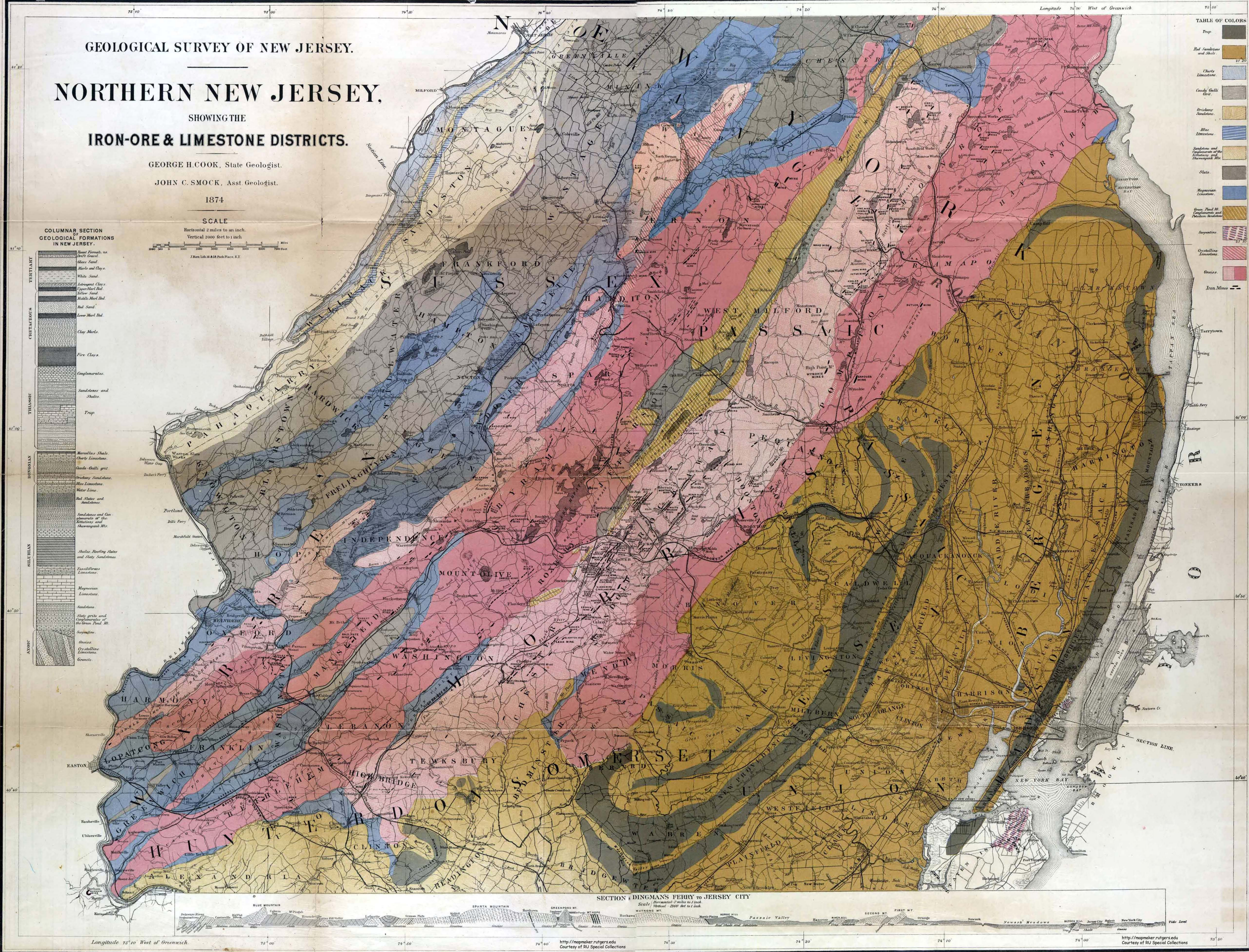


TABLE OF COLORS

Trap	[Color swatch]
Red Sandstone and Shale	[Color swatch]
Cherty Limestone	[Color swatch]
Condy Gullies	[Color swatch]
Ordinary Sandstone	[Color swatch]
Blue Limestone	[Color swatch]
Sandstone and Conglomerates of the Silurian and Devonian	[Color swatch]
Slate	[Color swatch]
Magnesian Limestone	[Color swatch]
Green Sandstone and Devonian Sandstone	[Color swatch]
Serpentine	[Color swatch]
Crystalline Limestone	[Color swatch]
Onondaga	[Color swatch]
Iron Mines	[Symbol]





GEOLOGICAL SURVEY OF NEW JERSEY.

MAP  
OF A  
GROUP OF  
**IRON MINES**  
IN  
**MORRIS COUNTY**

Made under the direction of  
**GEO. H. COOK**, State Geologist.  
Surveyed and drawn by  
**G. M. HOPKINS**, C. E.



NOTE.

The contour lines denote the outlines of the hills  
and by horizontal planes at the distance of 20  
feet.  
The numbers upon the summits of the hills denote  
the height in feet.  
The plane of reference is mean tide at New York.  
The iron mines are indicated by the red color  
workings are shown by full red lines.  
The veins are shown by dotted red lines.





**GEOLOGICAL SURVEY OF NEW JERSEY.**

**MAP OF  
ZINC MINES,  
SUSSEX COUNTY.**

Geo. H. Cook, State Geologist

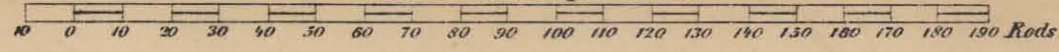
John C. Smock, Asst. Geologist

Surveyed & Drawn by

G. M. Hopkins, C.E.

1867.

Scale, 8 inches per Mile.



*Note.* The figures on the contour lines give the heights, in feet, above mean tide, and the contour lines show where the surface is of that height.



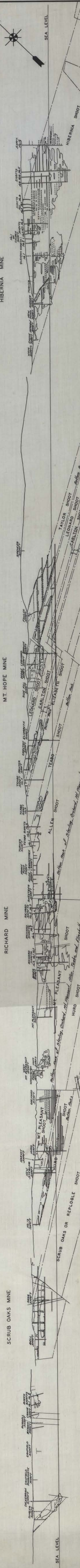


SCRUB OAKS MINE

RICHARD MINE

MT. HOPE MINE

HIBERNIA MINE



VERTICAL PROJECTION



MAP OF  
WHARTON MINING DISTRICT  
NOVEMBER 1895

- LEGEND
- Continuation of Mine
  - Strike of Veins of Sea Level
  - Faults
  - Mine workings (See Plan of Mine)
  - Land of Warren Family and Pipe Corp.
  - Additional Lands of Warren Family and Pipe Corp.
  - Other Mine Property



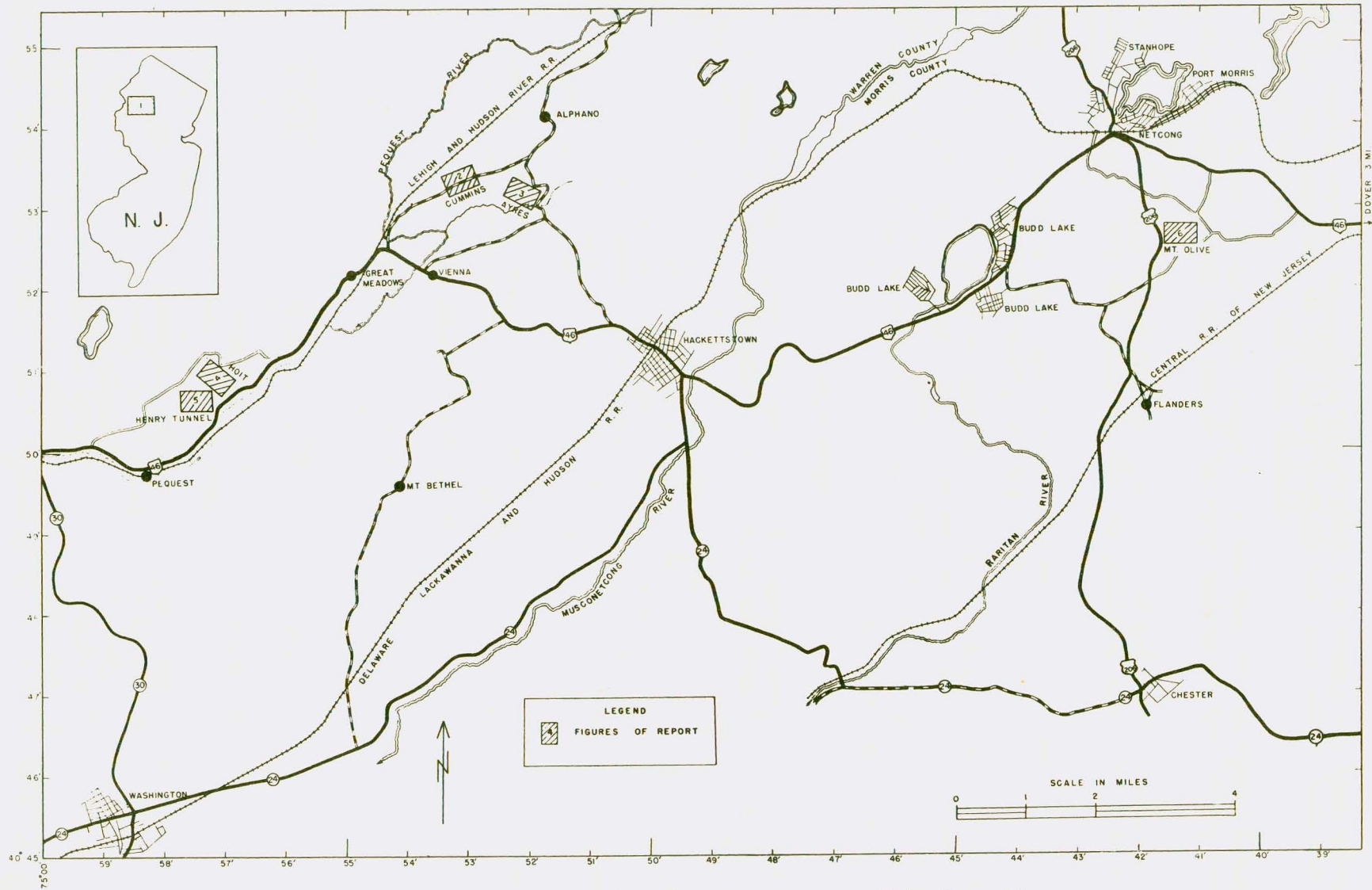
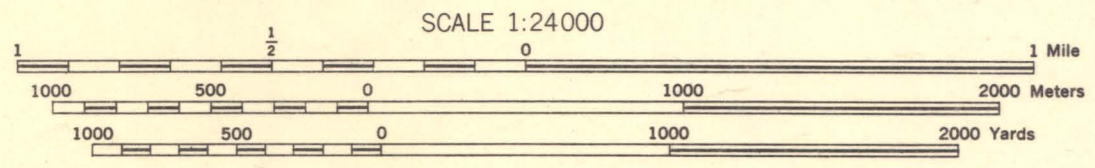


Figure 1. - Key map, certain New Jersey magnetite deposits.





First Edition (AMS 1), 1943, (AMS 2), 1947.  
 Prepared under the direction of the Chief of Engineers by the Army Map Service (AM), War Department, Washington, D. C. Marginal data revised and Universal Transverse Mercator Grid added, 1947. Copied in 1947 from New Jersey, 1:25,000, AMS, Dover, 1943. Original map compiled by the Army Map Service by stereophotogrammetric methods. Horizontal and vertical control by USCGS, USGS, AMS and New Jersey Geodetic Control Survey. Aerial photography by the Army Map Service, 1942-1943.

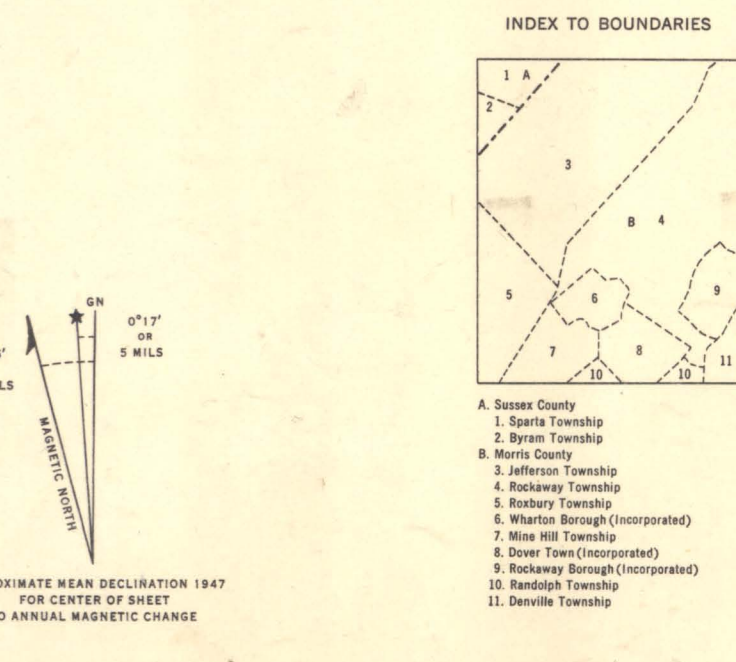


CONTOUR INTERVAL 20 FEET  
 DATUM IS MEAN SEA LEVEL  
 TRANSVERSE MERCATOR PROJECTION  
 1927 NORTH AMERICAN DATUM

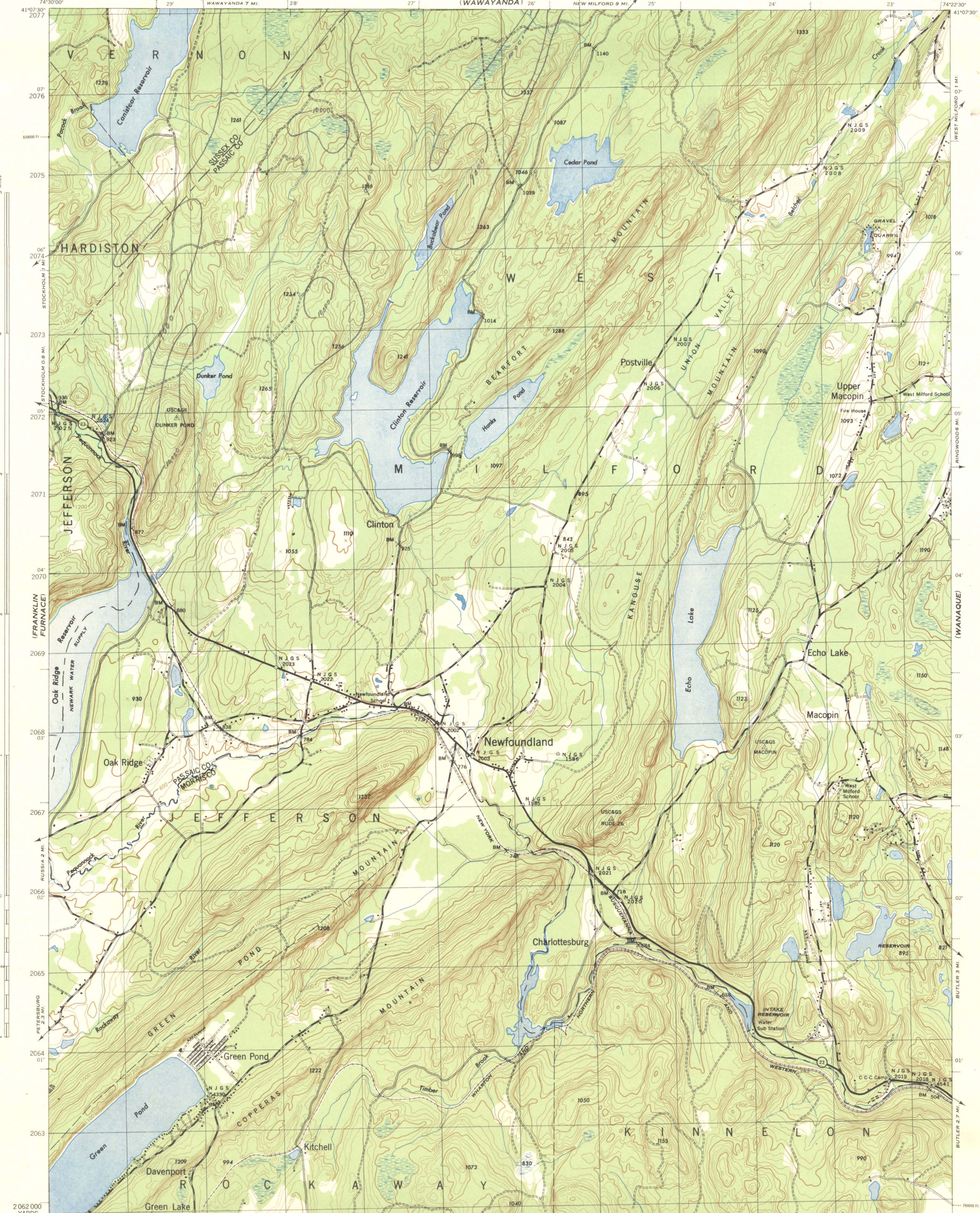
**LEGEND**  
 Tint indicates built-up areas in which only landmark buildings are shown

Hard surface, heavy duty road, more than two lanes wide	Loose surface, graded, dry weather road
Hard surface, heavy duty road, two lanes wide; Federal route marker	Trail; Dirt road
Secondary, hard surface, all weather road, two lanes wide; State route marker	Railroad in street; Carline in street
<b>RAILROADS</b>	<b>UNDER CONSTRUCTION</b>
Standard gauge	Single track
Narrow gauge	Double track
Single track carline	Single track
Double track carline	Double track
<b>BOUNDARIES</b>	<b>ABANDONED</b>
International	Single track
State	Double track
County (with monument)	Single track
County subdivision	Double track
Reservation	Single track
Military reservation	Double track
School, Church	Single track
Cemetery	Double track
Churchyard	Single track

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Scale 1:31,680

CONTOUR INTERVAL 20 FEET  
DATUM IS MEAN SEA LEVEL

THOUSAND YARD GRID COMPUTED FROM "GRID SYSTEM FOR PROGRESSIVE MAPS IN THE U. S. ZONE" A. U. S. C. & G. S. SPECIAL PUBLICATION NO. 59  
"THE LAST THREE DIGITS OF THE GRID NUMBERS ARE OMITTED."  
"NEW JERSEY STATE GRID ZONE IS INDICATED BY DOTTED TICKS OUTSIDE THE NEAT LINE AT 5000 FT. INTERVALS."  
NOTE: OFFICERS USING THIS MAP WILL MAKE NECESSARY CORRECTIONS AND ADJUSTMENTS WHICH COME TO THEIR ATTENTION AND WILL DIRECT TO "THE CHIEF OF ENGINEERS, WASHINGTON, D. C."

ROAD CLASSIFICATION 1943

Dependable hard-surface road  
Secondary hard-surface road  
All-weather road  
More than two lanes indicated by route along road with tick at point of change

Loam-surface graded  
Dirt road  
Dotted line  
Blank line

U. S. Route 160  
30

Scale 1:31,680

1 Mile  
1000 500 0 1000 2000 Yards

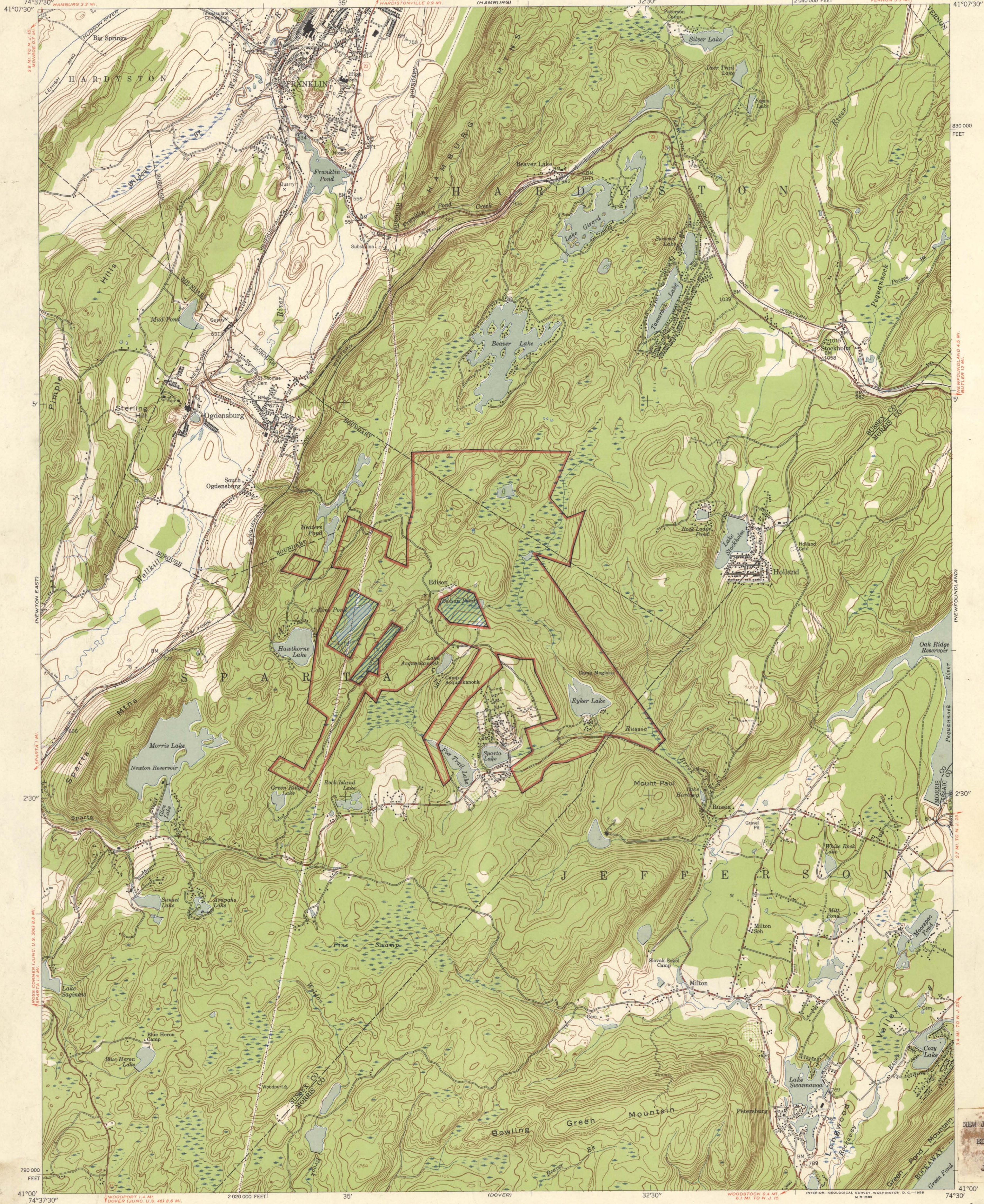
APPROXIMATE MEAN DECLINATION 1942  
FOR CENTER OF SHEET  
ANNUAL MAGNETIC CHANGE 0'

Use diagram only to obtain numerical values. To determine magnetic north line, connect the pivot point "P" on the south edge of the map with the value of the angle between grid and magnetic north, as plotted on the degree scale of the north edge of the map.

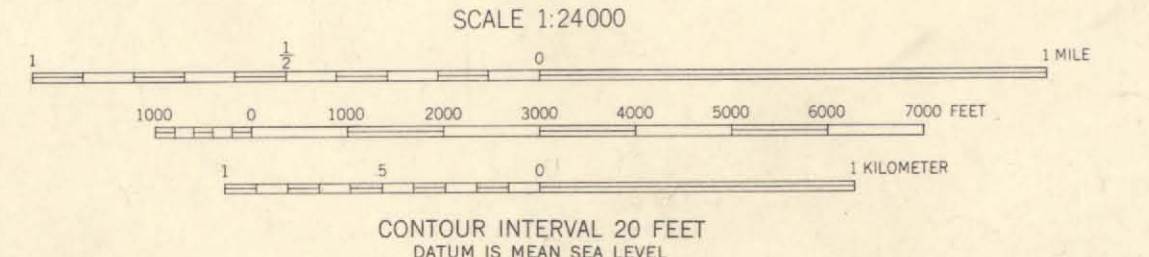
NEWFOUNDLAND, N. J.  
N4100-W422.5/7.5

INTERNATIONAL MAP COMPANY, INC.  
90 WEST STREET NEW YORK, N. Y.  
Specialists in Topographic and Geologic Maps





Mapped by the Army Map Service  
Edited and published by the Geological Survey  
Control by USGS, USCG&GS, and New Jersey Geodetic Survey  
Topography from aerial photographs by stereophotogrammetric  
methods. Aerial photographs taken 1942. Field check 1946  
Culture revised by the Geological Survey 1954  
Polyconic projection. 1927 North American datum  
10,000-foot grid based on New Jersey coordinate system  
Unchecked elevations are shown in brown



ROAD CLASSIFICATION  
Heavy-duty ——— Light-duty ———  
Medium-duty ——— Unimproved dirt ———  
U. S. Route ——— State Route ———



FRANKLIN, N. J.  
N4100-W7430/7.5  
1954

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U. S. GEOLOGICAL SURVEY, WASHINGTON 25, D. C.  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

NEW JERSEY ZINC PROPERTY  
EDISON, NEW JERSEY  
January 1, 1959

OLIVER IRON MINING  
DIVISION  
U. S. GEOLOGICAL SURVEY  
Date: 3/13/59  
File: 42-5  
Case: Newark  
Drawn: A-1

NAM Outline of  
N.J. Zinc Co  
Land, Exception  
1/1/59



Handwritten notes on a small piece of paper in the top left corner, including names like "Hamburg, Newton East, Franklin Furnace" and "Quads".

Faint printed text in the upper left quadrant, likely a legend or technical specifications for the magnetic intensity data.

NOTE: Indicated values are approximately 14% higher than actual values. To correct, multiply indicated value by 0.875.

74°-45'-00"

74°-37'-30"  
41°-07'-30"

74°-37'-30"

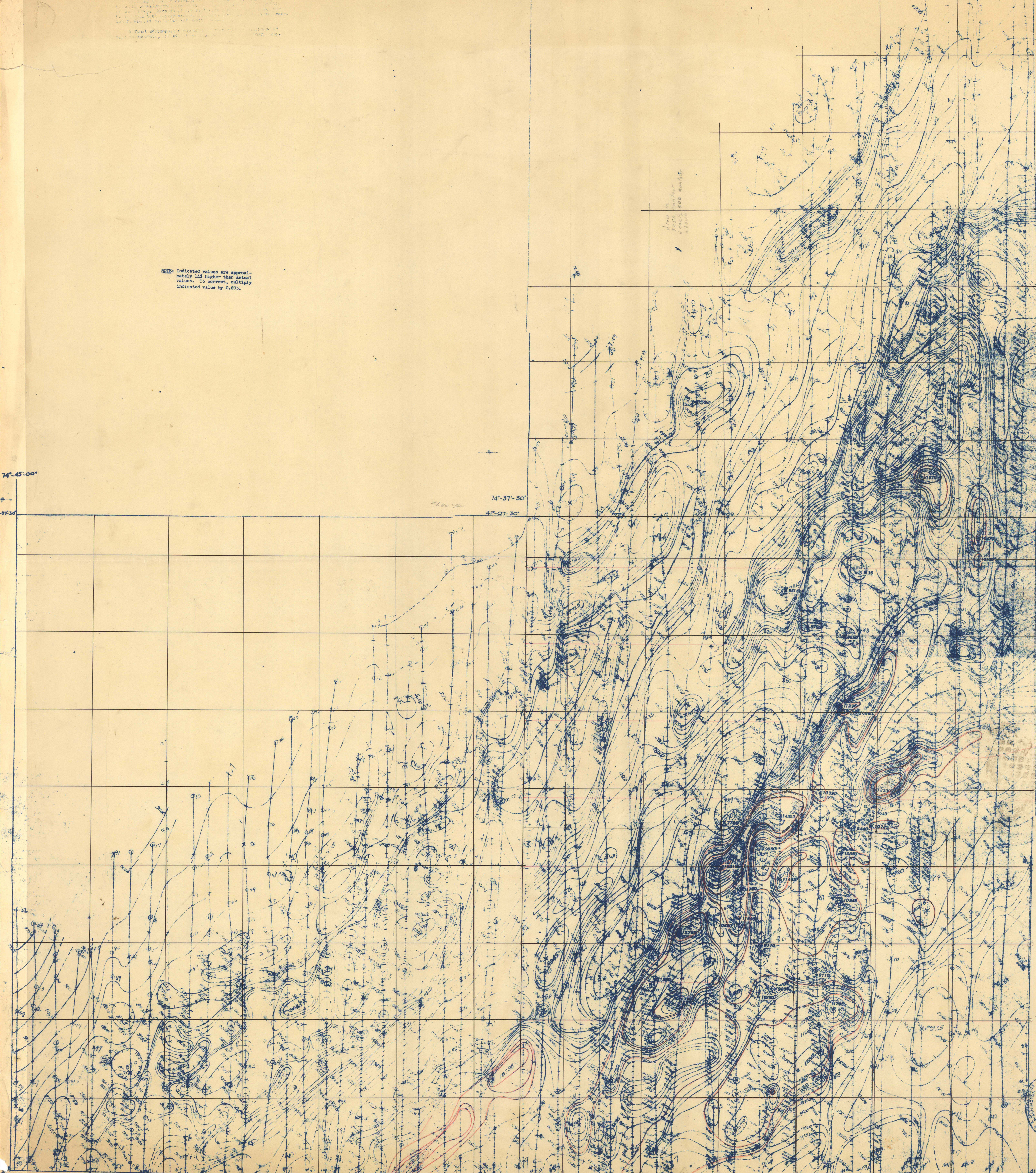
74°-00'-00"

# TOTAL MAGNETIC INTENSITY MA NEW JERSEY TRIASSIC-HIGHLANDS HAMBURG, NEWTON EAST, FRANKLIN FURNACE QUADS

Scale 1:25000  
Miles  
Flown approximately 500 feet above the surface

New Jersey (Highlands) aeromagnetic. 1:25,000  
Hamburg, N.J.  
Cop 1

LIBRARY  
1951





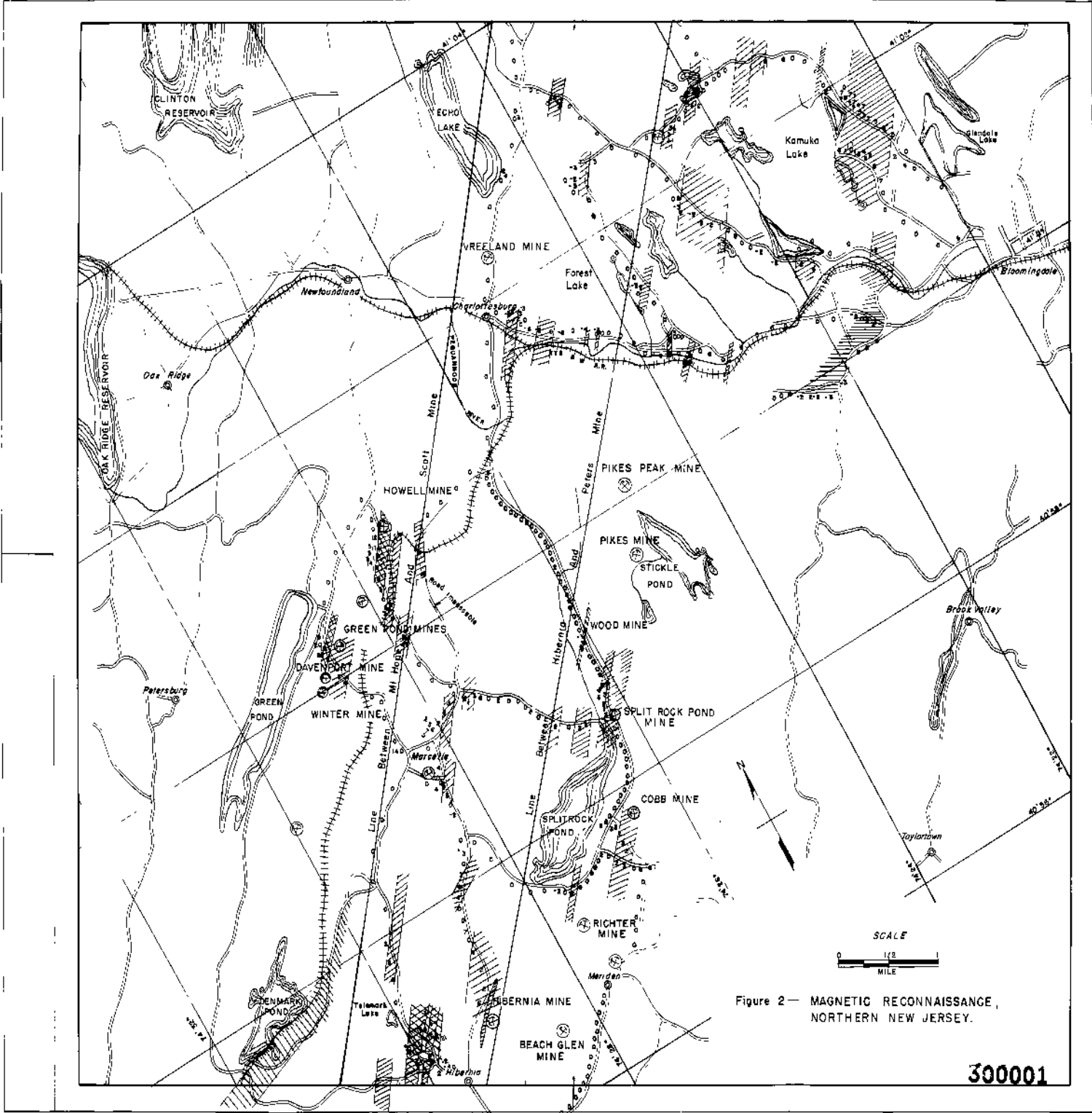
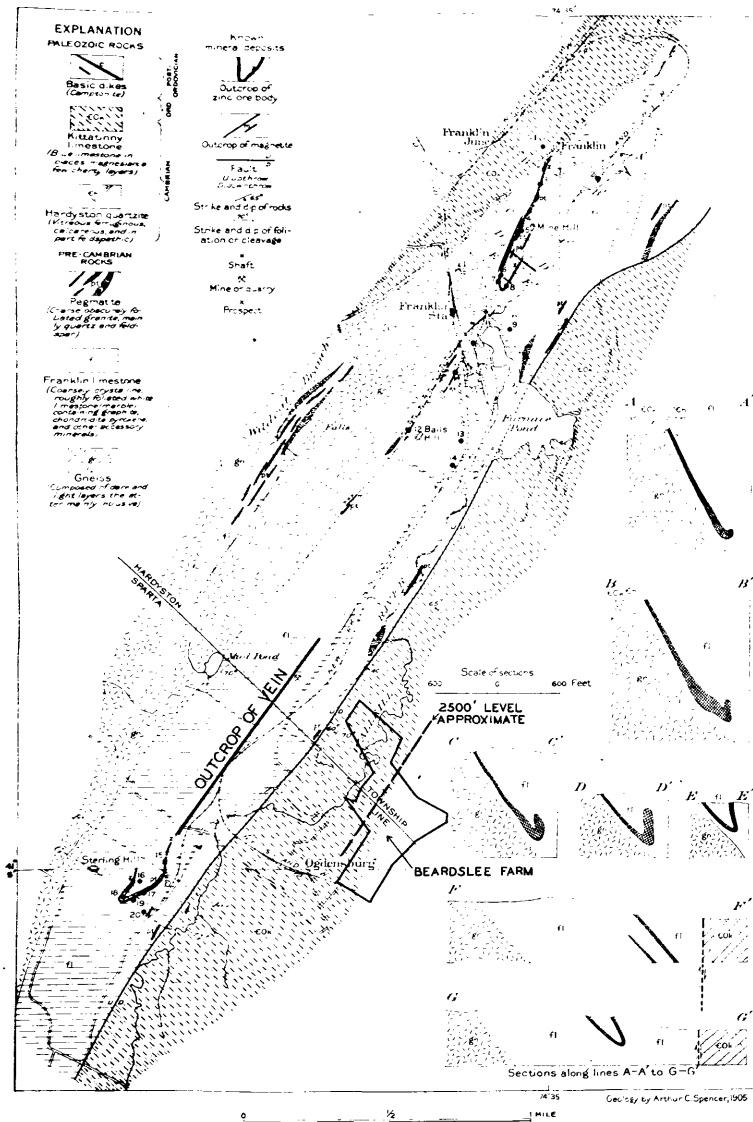


Figure 2— MAGNETIC RECONNAISSANCE,  
NORTHERN NEW JERSEY.

300001

300001





GEOLOGIC MAP OF THE FRANKLIN MINING DISTRICT, SHOWING SITES OF PRINCIPAL MINERAL LOCALITIES.

Figure 2.

BEARDSLEE FARM, SUSSEX COUNTY, NEW JERSEY.

30002 409 14.5:1 300838



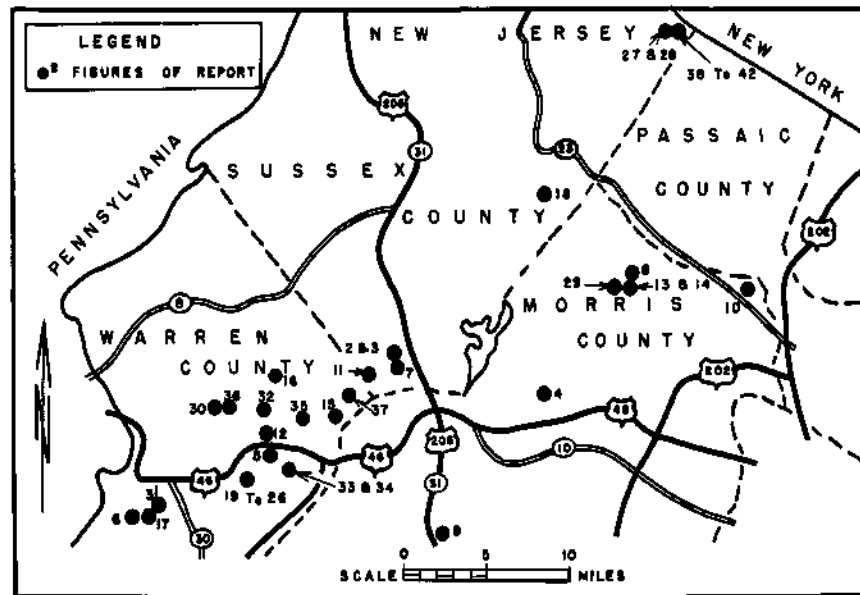


Figure 1. - Key map, showing location of magnetic surveys of magnetite deposits in Morris, Passaic, Sussex, and Warren Counties.

30002 | 338

14.5.1 | 300767