HYDROGEOLOGIC RECONNAISSANCE OF LEE COUNTY, FLORIDA

PART 2 : ATLAS

PREPARED BY :
GROUND WATER DIVISION

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

TECHNICAL PUBLICATION 82-1

January, 1982

DRE - 151

This Atlas is designed to be used in conjunction with Part 1 (Text) and Part 3 (Appendices) of this Report.

TABLE OF CONTENTS

PLATE NO. 1 - LOCATION OF GEOLOGIC CONTROL WELLS IN LEE COUNTY, FLORIDA

PLATE NO. 2 - THE THICKNESS OF THE SURFICIAL AQUIFER IN LEE COUNTY, FLORIDA

PLATE NO. 3 - THE ELEVATION OF THE TOP OF THE UPPER HAWTHORN CONFINING ZONE AND HAWTHORN FORMATION IN LEE COUNTY, FLORIDA

PLATE NO. 4 - THE THICKNESS OF THE UPPER HAWTHORN CONFINING ZONE IN LEE COUNTY, FLORIDA

PLATE NO. 5 - THE ELEVATION OF THE TOP OF THE SANDSTONE AQUIFER IN LEE COUNTY, FLORIDA

PLATE NO. 6 - THE THICKNESS OF THE SANDSTONE AQUIFER IN LEE COUNTY, FLORIDA

PLATE NO. 7 - THE ELEVATION OF THE TOP OF THE MID-HAWTHORN CONFINING ZONE IN LEE COUNTY, FLORIDA

PLATE NO. 8 - THE ELEVATION OF THE TOP OF THE MID-HAWTHORN AQUIFER IN LEE COUNTY, FLORIDA

PLATE NO. 9 - THE ELEVATION OF THE TOP OF THE LOWER HAWTHORN/TAMPA PRODUCING ZONE IN LEE COUNTY, FLORIDA

PLATE NO. 10 - THE THICKNESS OF THE HAWTHORN FORMATION IN LEE COUNTY, FLORIDA

PLATE NO. 11 - THE THICKNESS OF THE LOWER CARBONATE MEMBER OF THE HAWTHORN FORMATION IN LEE COUNTY, FLORIDA

PLATE NO. 12 - THE ELEVATION OF THE TOP OF THE SUWANNEE LIMESTONE IN LEE COUNTY, FLORIDA

PLATE NO. 13 - THE LOCATION OF THE HYDROGEOLOGIC CROSS SECTIONS IN LEE COUNTY, FLORIDA

PLATE NO. 14 - HYDROGEOLOGIC CROSS SECTION A-A'

PLATE NO. 15 - HYDROGEOLOGIC CROSS SECTION B-B'

PLATE NO. 16 - HYDROGEOLOGIC CROSS SECTION D-D'

PLATE NO. 17 - HYDROGEOLOGIC CROSS SECTION E-E'

PLATE NO. 18 - HYDROGEOLOGIC CROSS SECTION F-F'

PLATE NO. 19 - HYDROGEOLOGIC CROSS SECTION C-C' AND G-G'

PLATE NO. 20 - HYDROGEOLOGIC CROSS SECTION H-H' AND I-I'

PLATE NO. 21 - WATER LEVEL IN THE SURFICIAL AQUIFER (MARCH-1979) IN LEE COUNTY, FLORIDA

PLATE NO. 22 - WATER LEVEL IN THE SURFICIAL AQUIFER (SEPTEMBER-1979) IN LEE COUNTY, FLORIDA

PLATE NO. 23 - POTENTIOMETRIC SURFACE OF THE SANDSTONE AQUIFER (MARCH -1979) IN LEE COUNTY, FLORIDA

PLATE NO. 24 - POTENTIOMETRIC SURFACE OF THE SANDSTONE AQUIFER (SEPTEMBER-1979) IN LEE COUNTY, FLORIDA

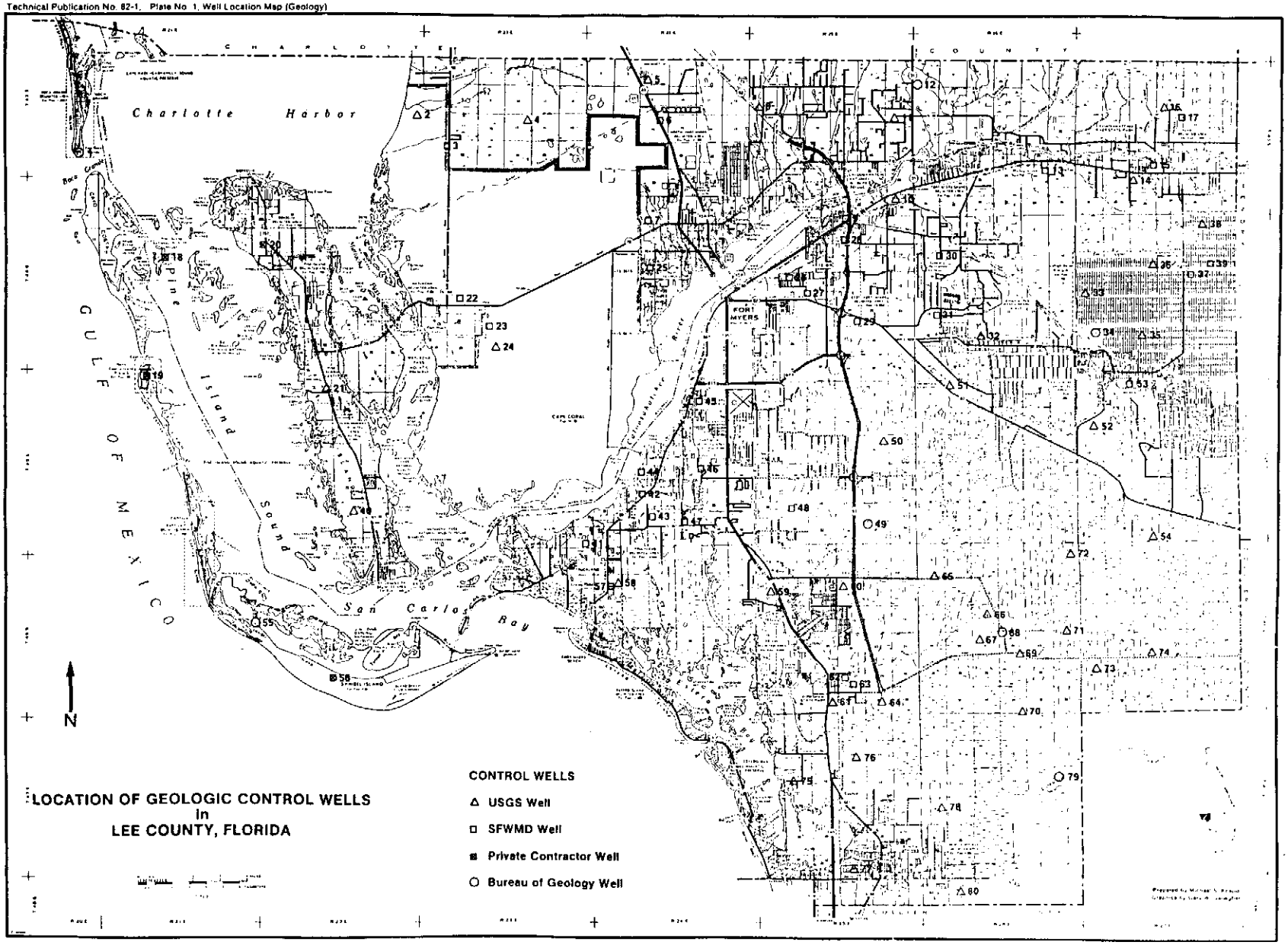
PLATE NO. 25 - POTENTIOMETRIC SURFACE OF THE MID-HAWTHORN AQUIFER (MARCH-1979) IN LEE COUNTY, FLORIDA

PLATE NO. 26 - POTENTIOMETRIC SURFACE OF THE MID-HAWTHORN AQUIFER (SEPTEMBER-1979) IN LEE COUNTY, FLORIDA

PLATE NO. 27 - POTENTIOMETRIC SURFACE OF THE LOWER HAWTHORN AQUIFER (MARCH-1979) IN LEE COUNTY, FLORIDA

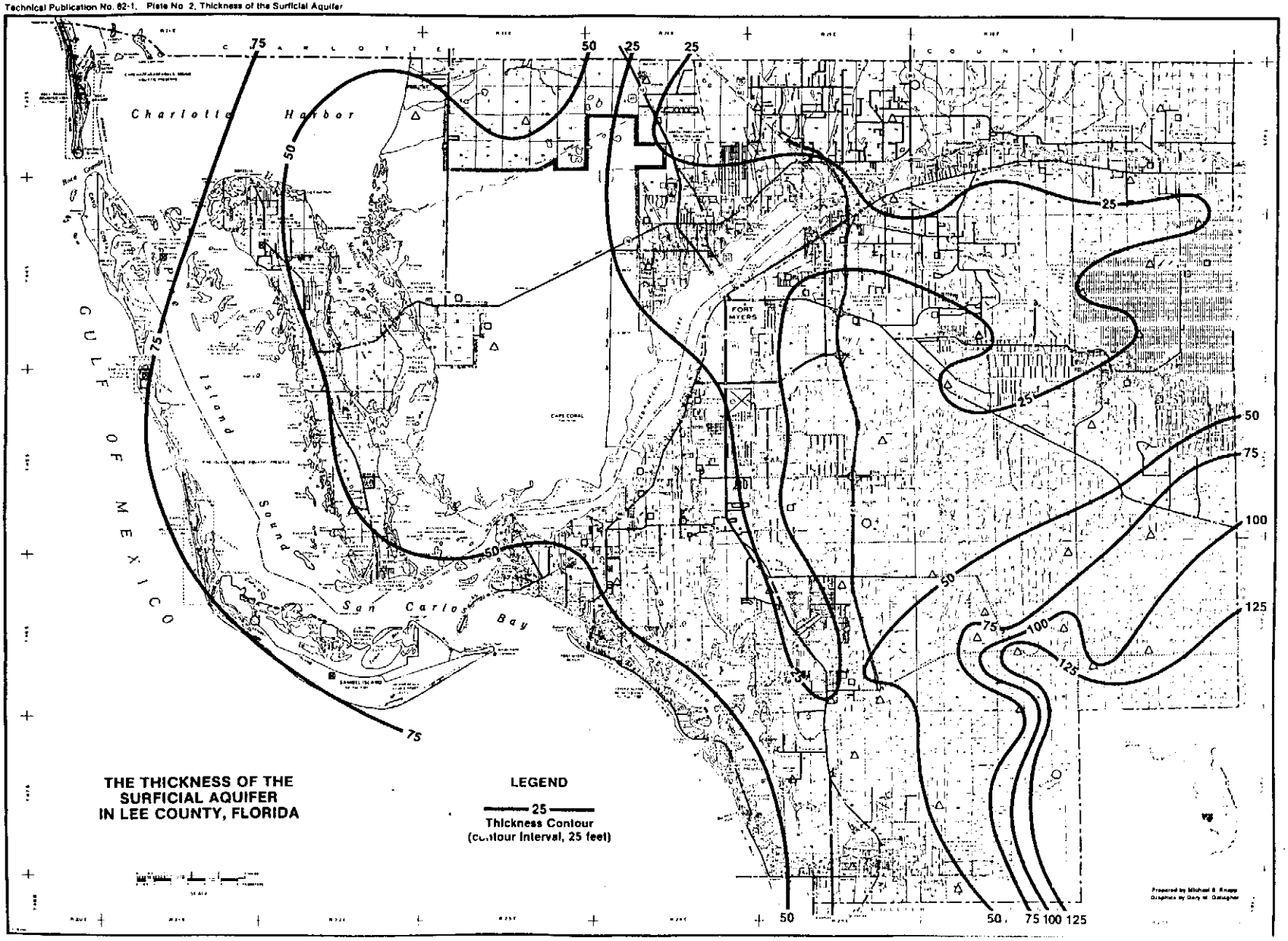
PLATE NO. 28 - POTENTIOMETRIC SURFACE OF THE LOWER HAWTHORN AQUIFER (SEPTEMBER-1979) IN LEE COUNTY, FLORIDA

Technical Publication No. 82-1, Plate No. 1, Well Location Map (Geology)

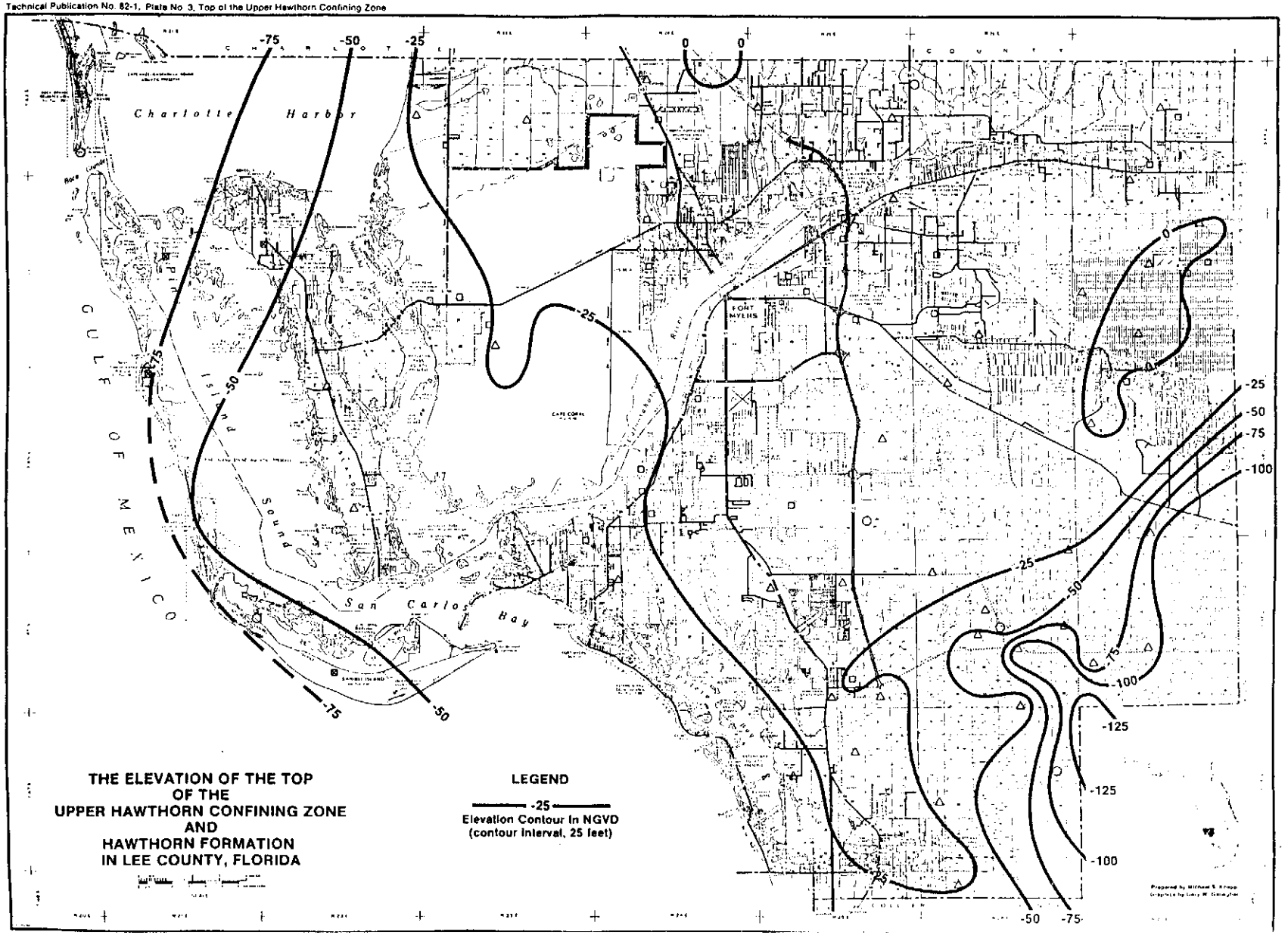


LOCATION OF GEOLOGIC CONTROL WELLS
in
LEE COUNTY, FLORIDA

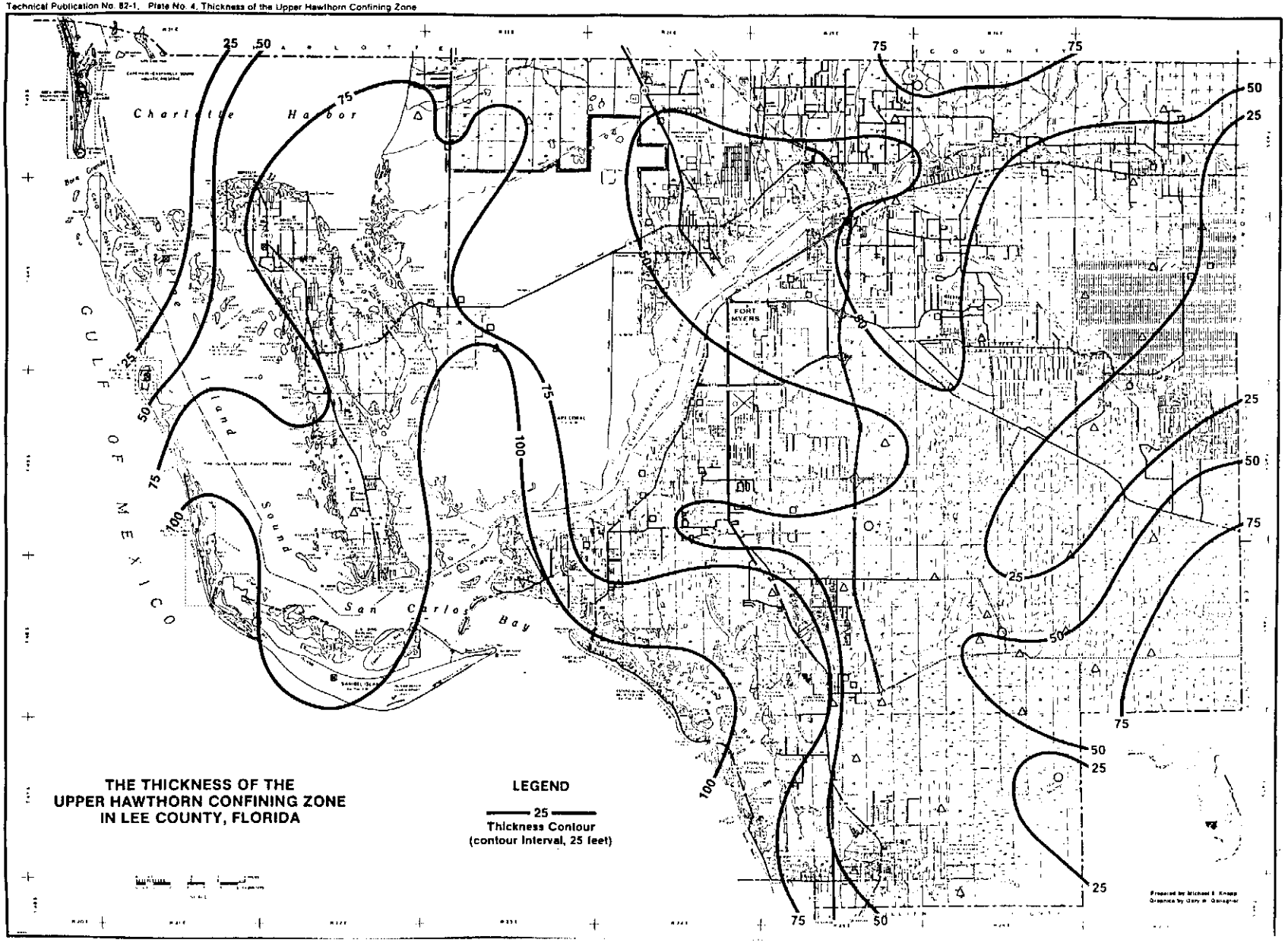
Technical Publication No. 82-1. Plate No. 2. Thickness of the Surficial Aquifer



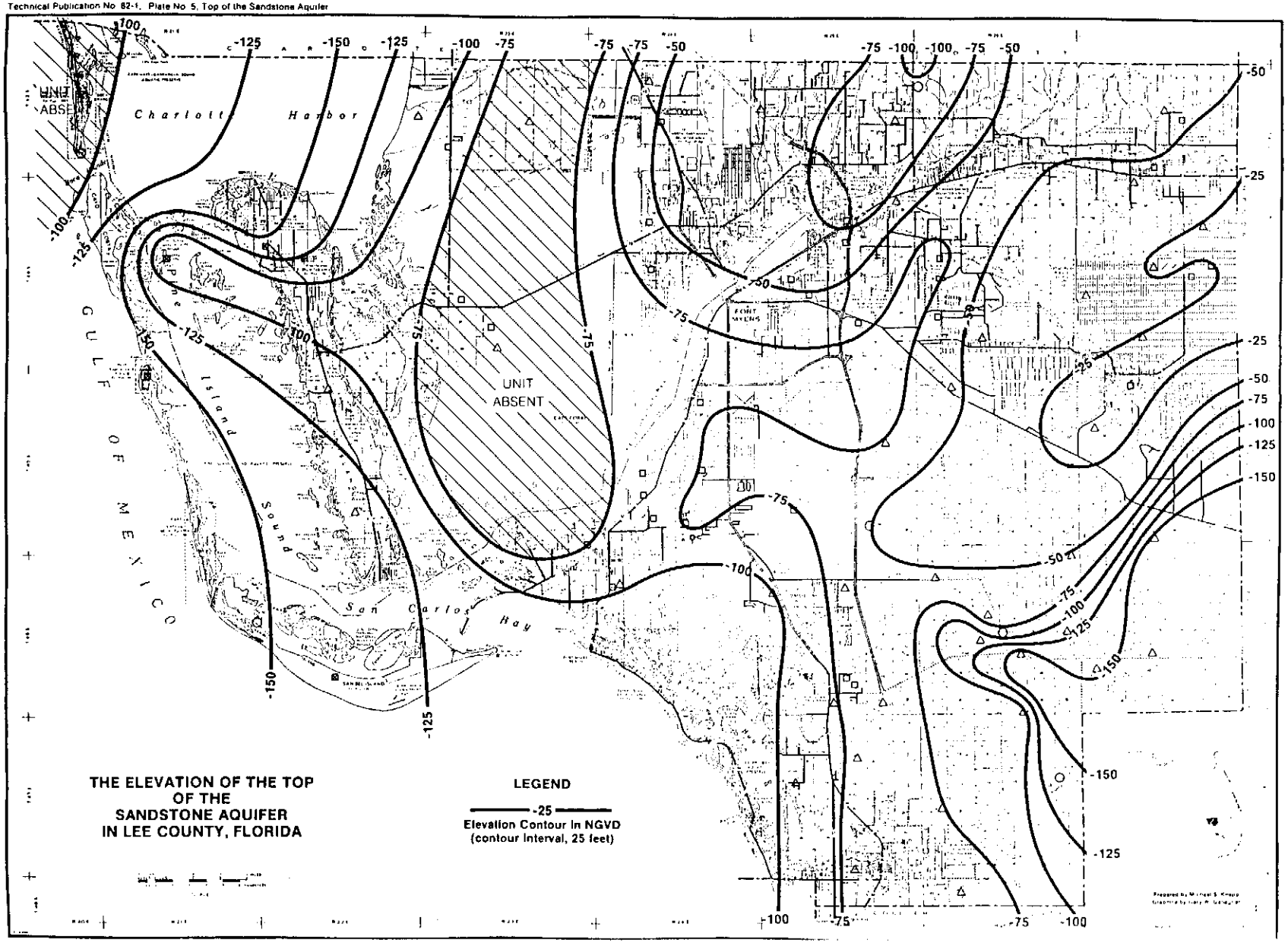
Technical Publication No. 82-1, Plate No. 3, Top of the Upper Hawthorn Confining Zone

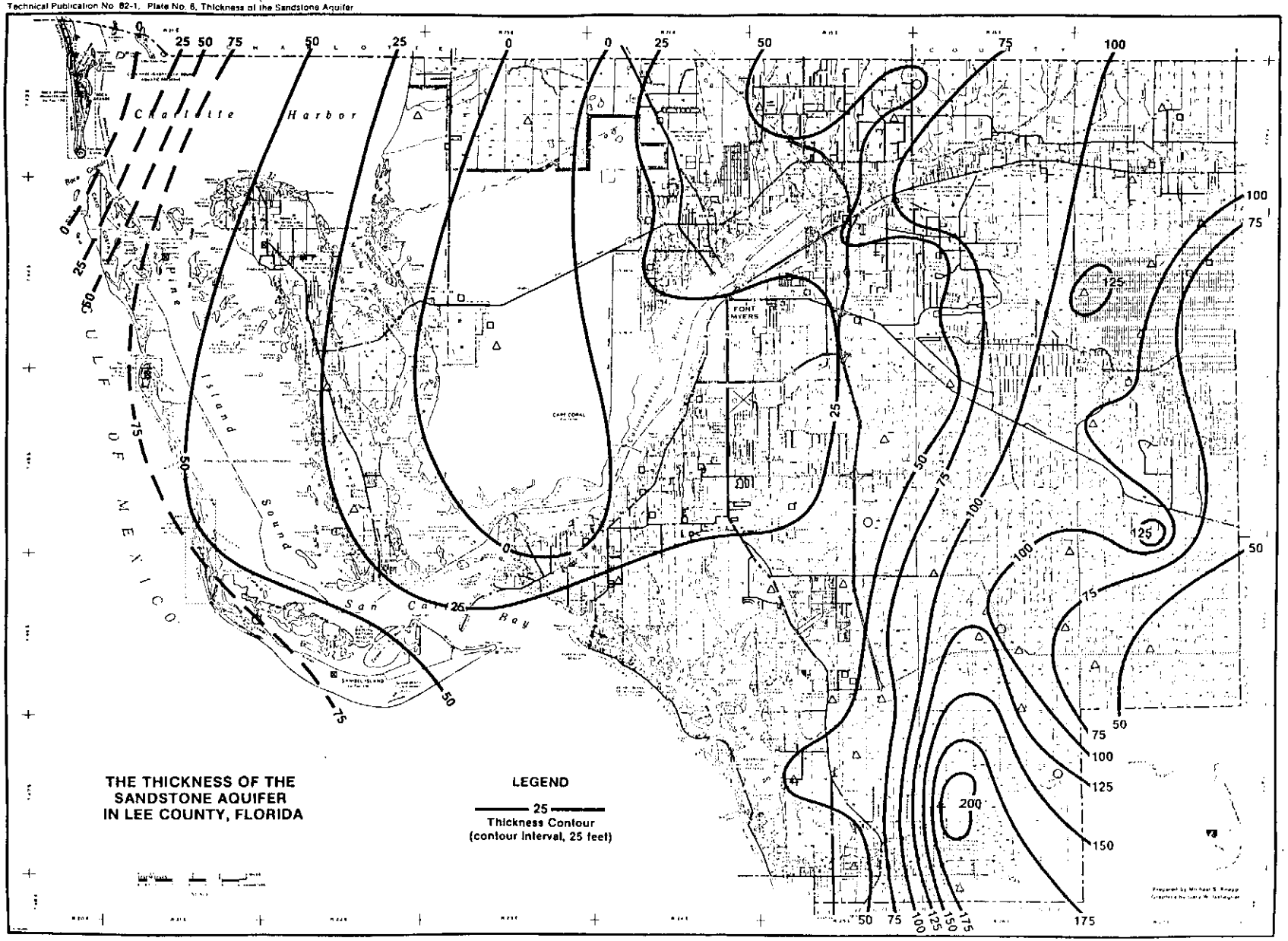


Technical Publication No. 82-1, Plate No. 4, Thickness of the Upper Hawthorn Confining Zone

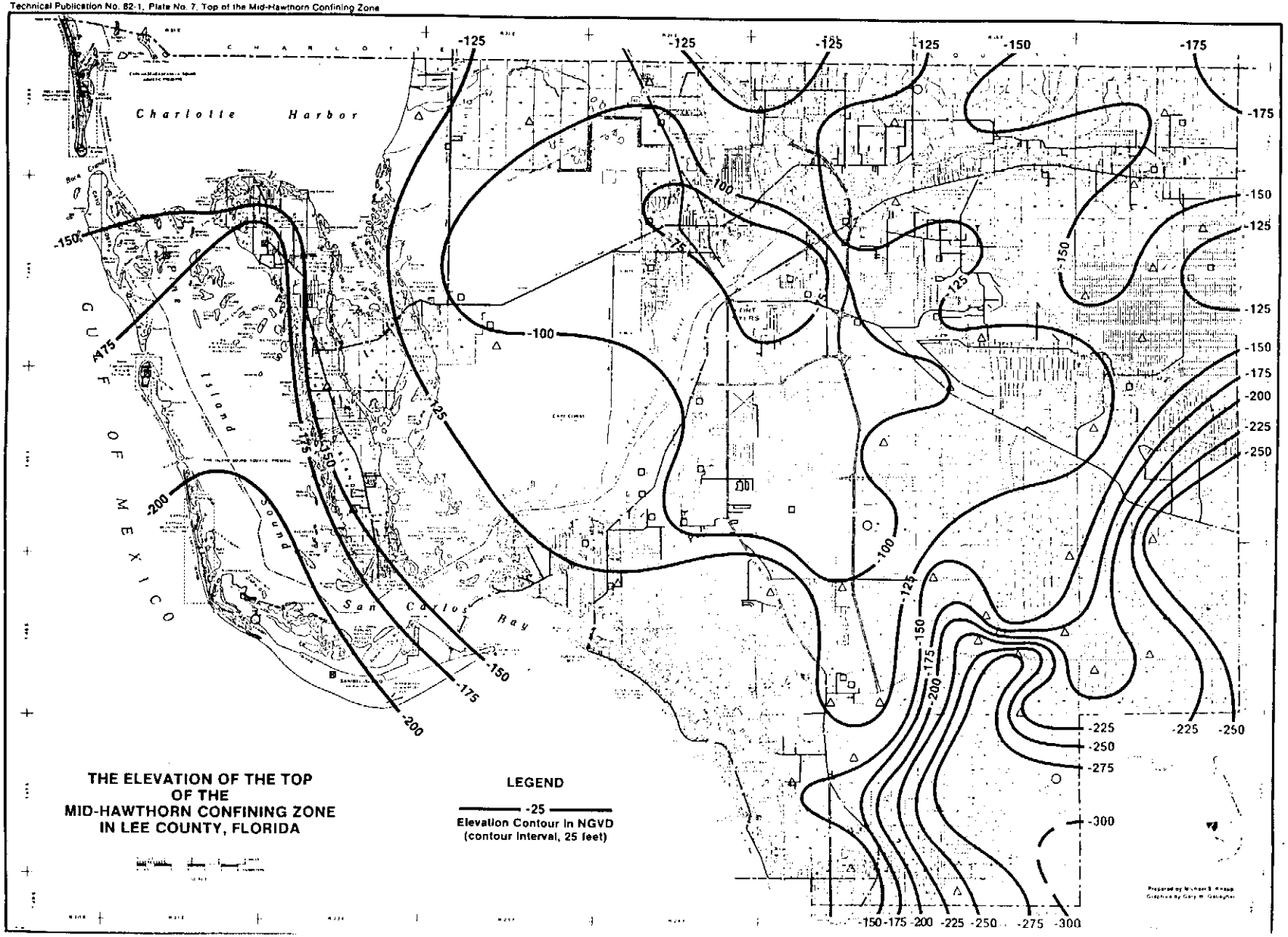


Technical Publication No. 82-1, Plate No. 5, Top of the Sandstone Aquifer

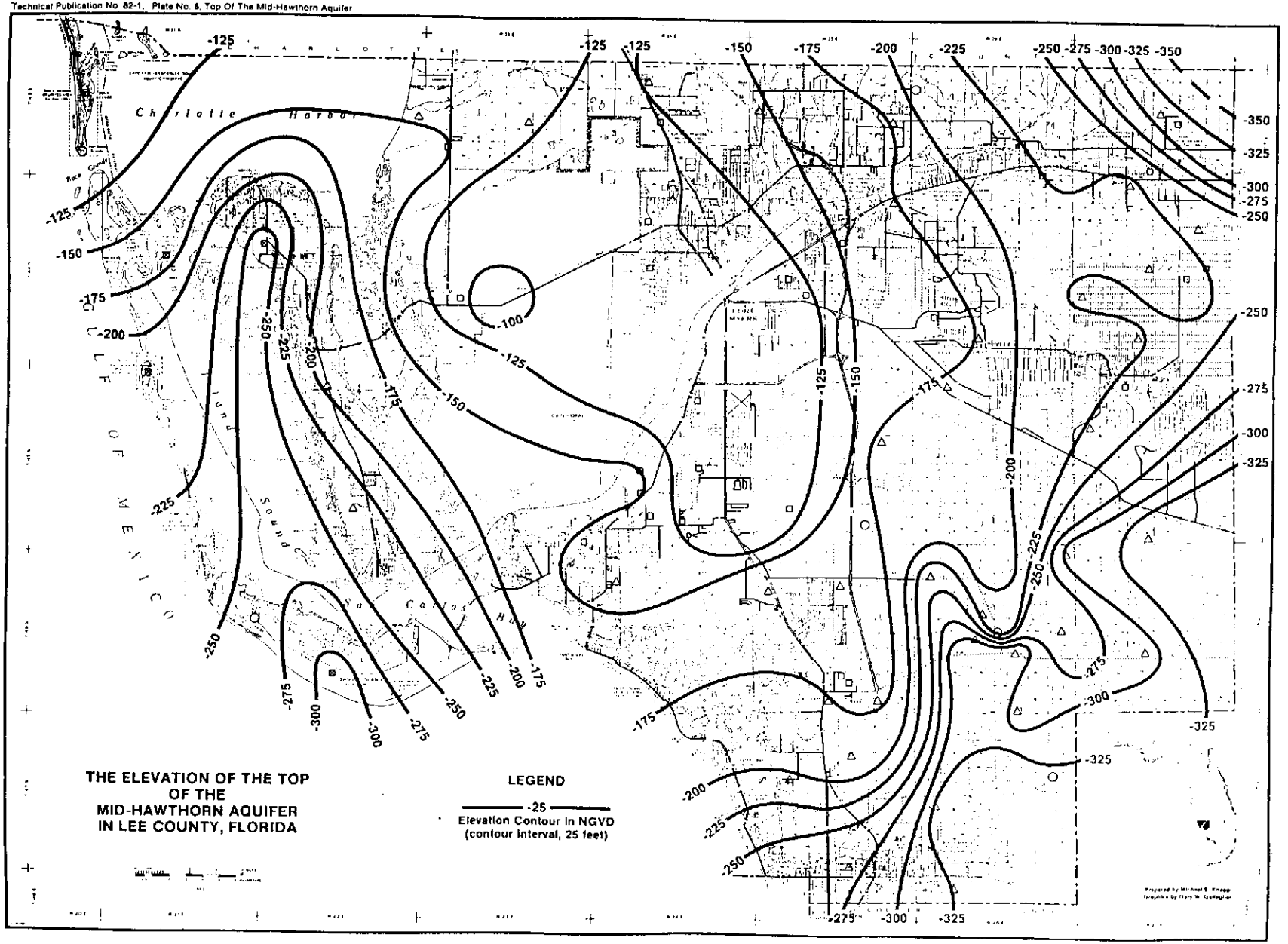



Charlotte Harbor
Pine Island Sound
San Carlos Bay
GULF OF MEXICO
FORT MYERS
CAPE CORAL
THE THICKNESS OF THE SANDSTONE AQUIFER IN LEE COUNTY, FLORIDA
LEGEND
25
Thickness Contour
(contour interval, 25 feet)

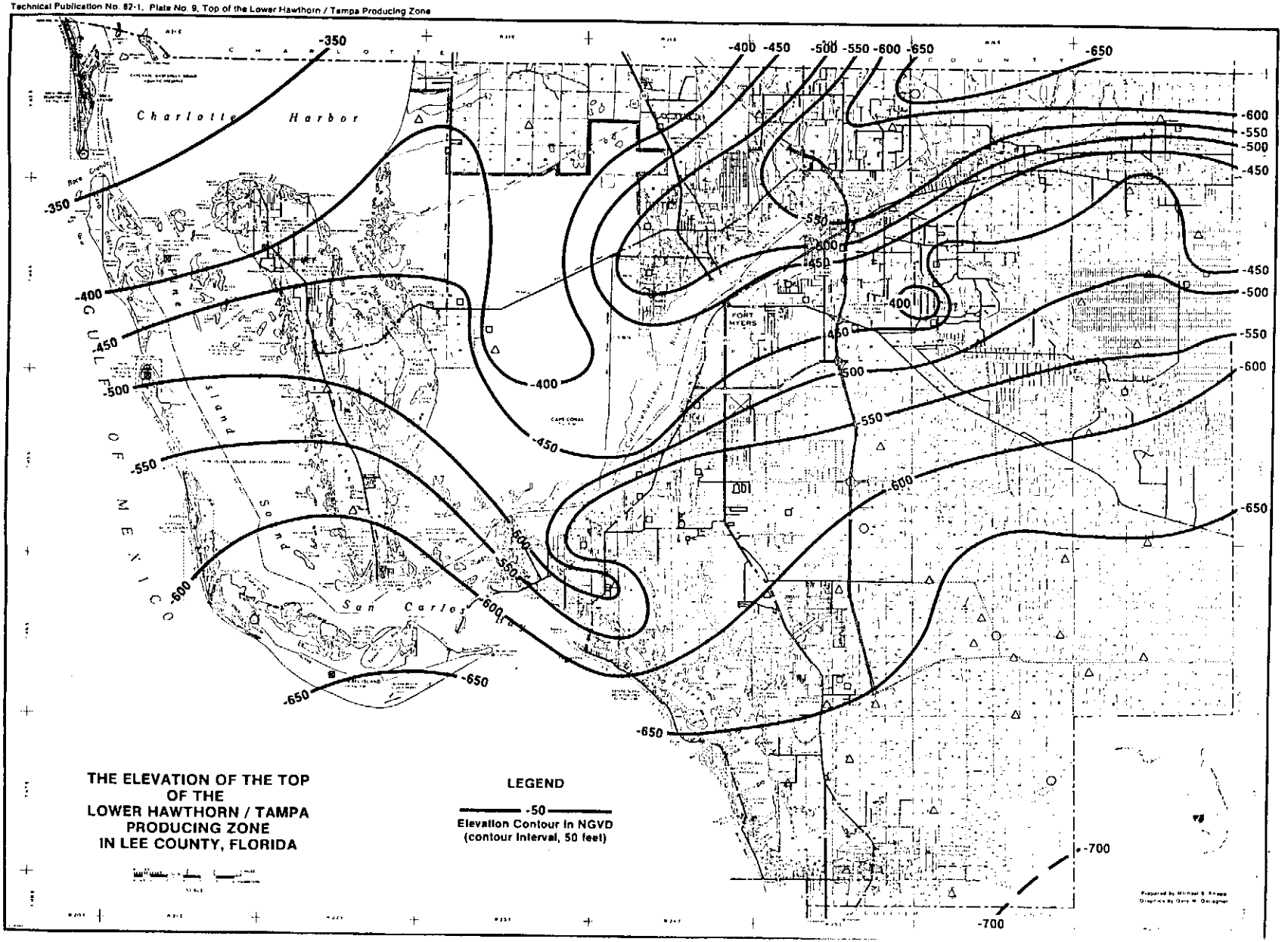
Technical Publication No. 82-1, Plate No. 7. Top of the Mid-Hawthorn Confining Zone



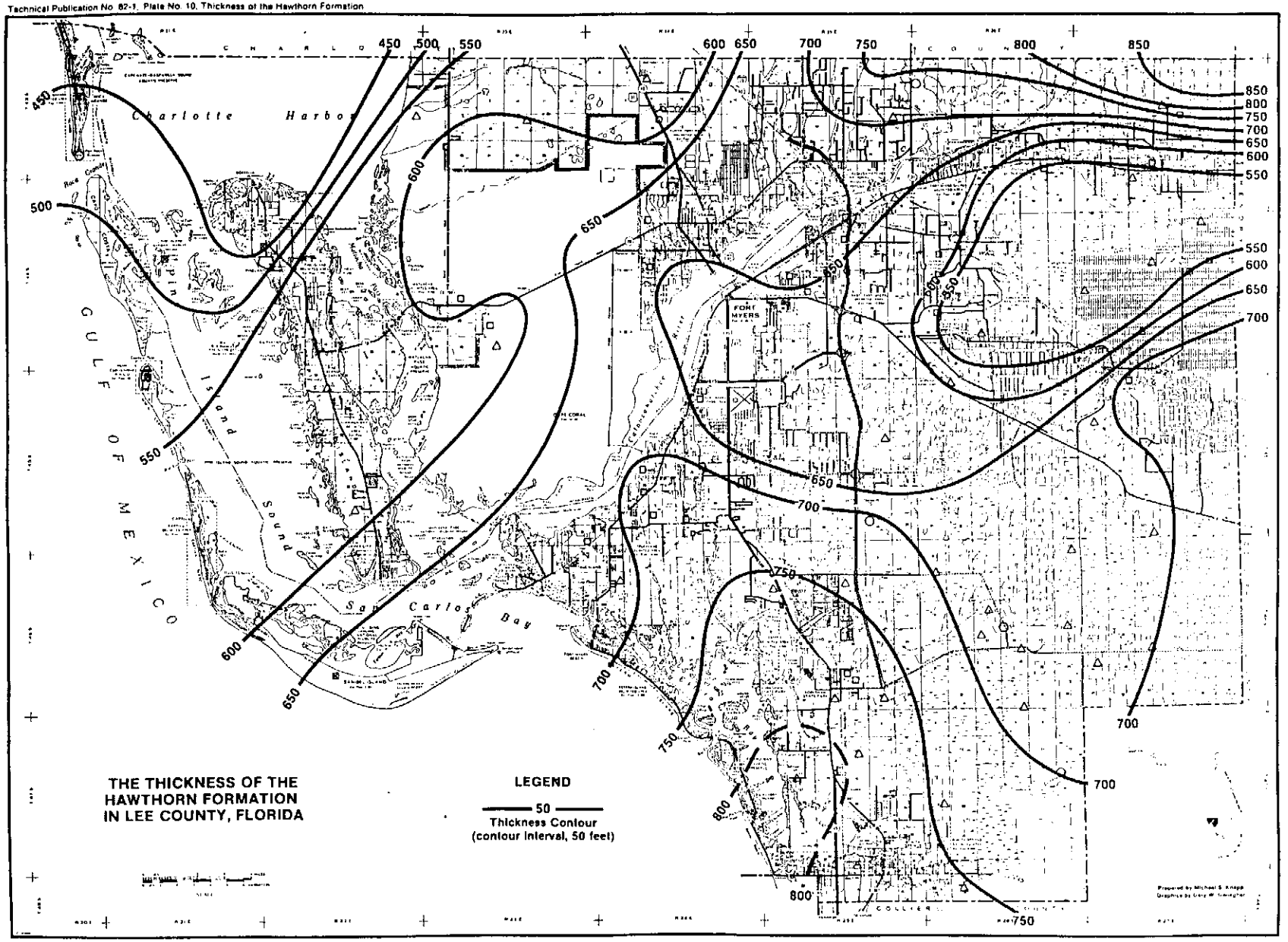
Technical Publication No. 82-1. Plate No. 8. Top Of The Mid-Hawthorn Aquifer

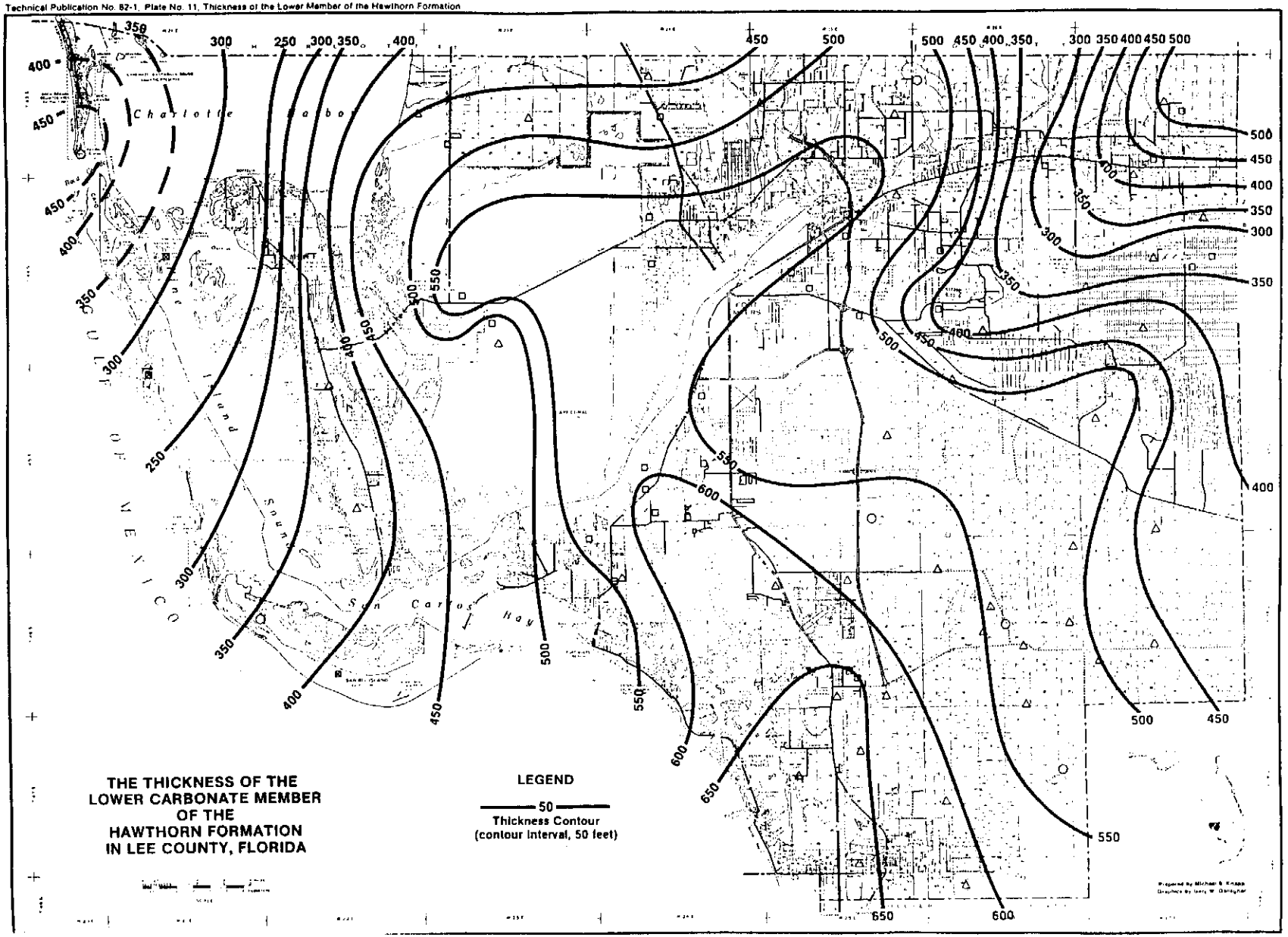


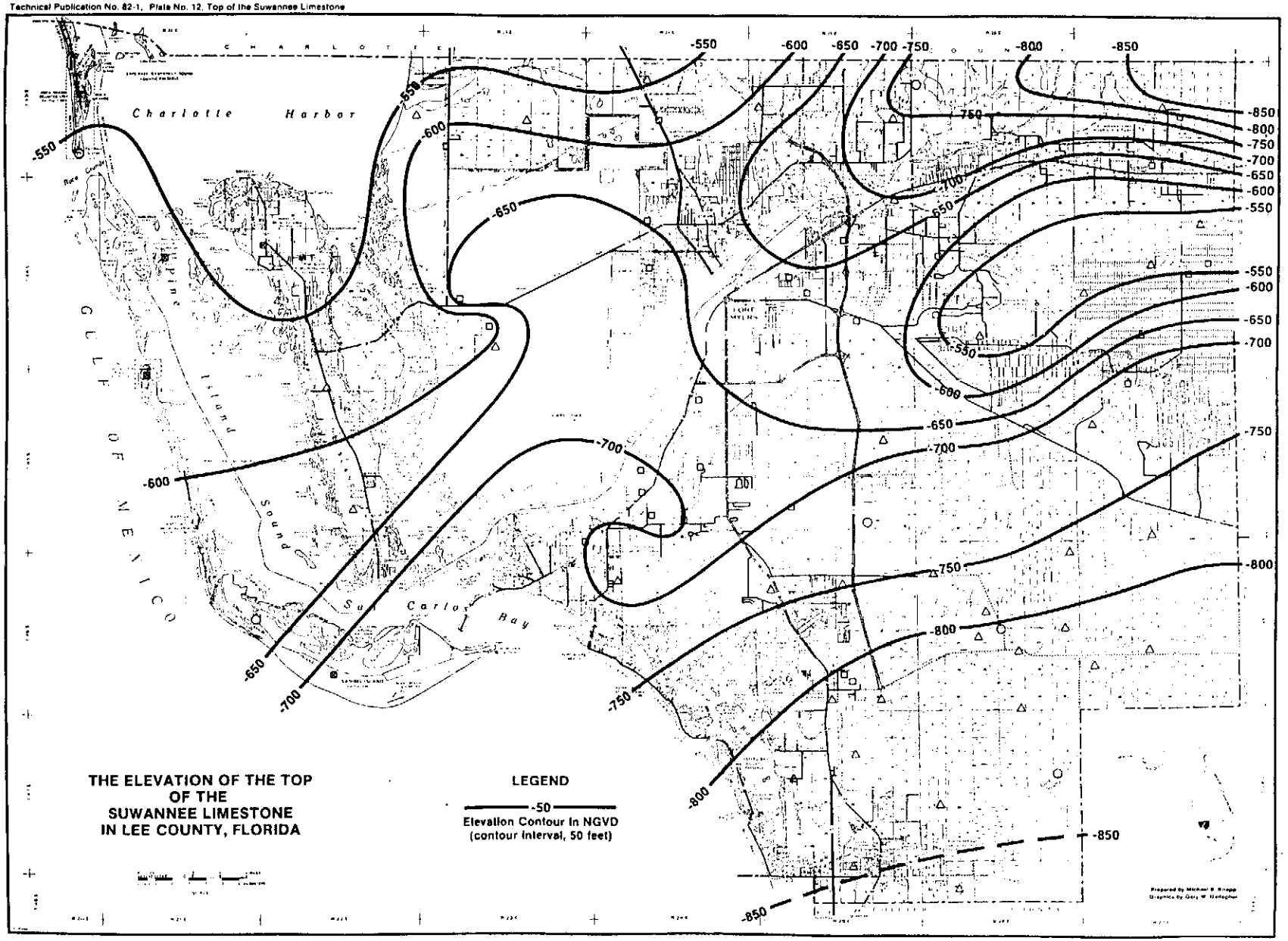
Technical Publication No. 82-1. Plate No. 9. Top of the Lower Hawthorn / Tampa Producing Zone

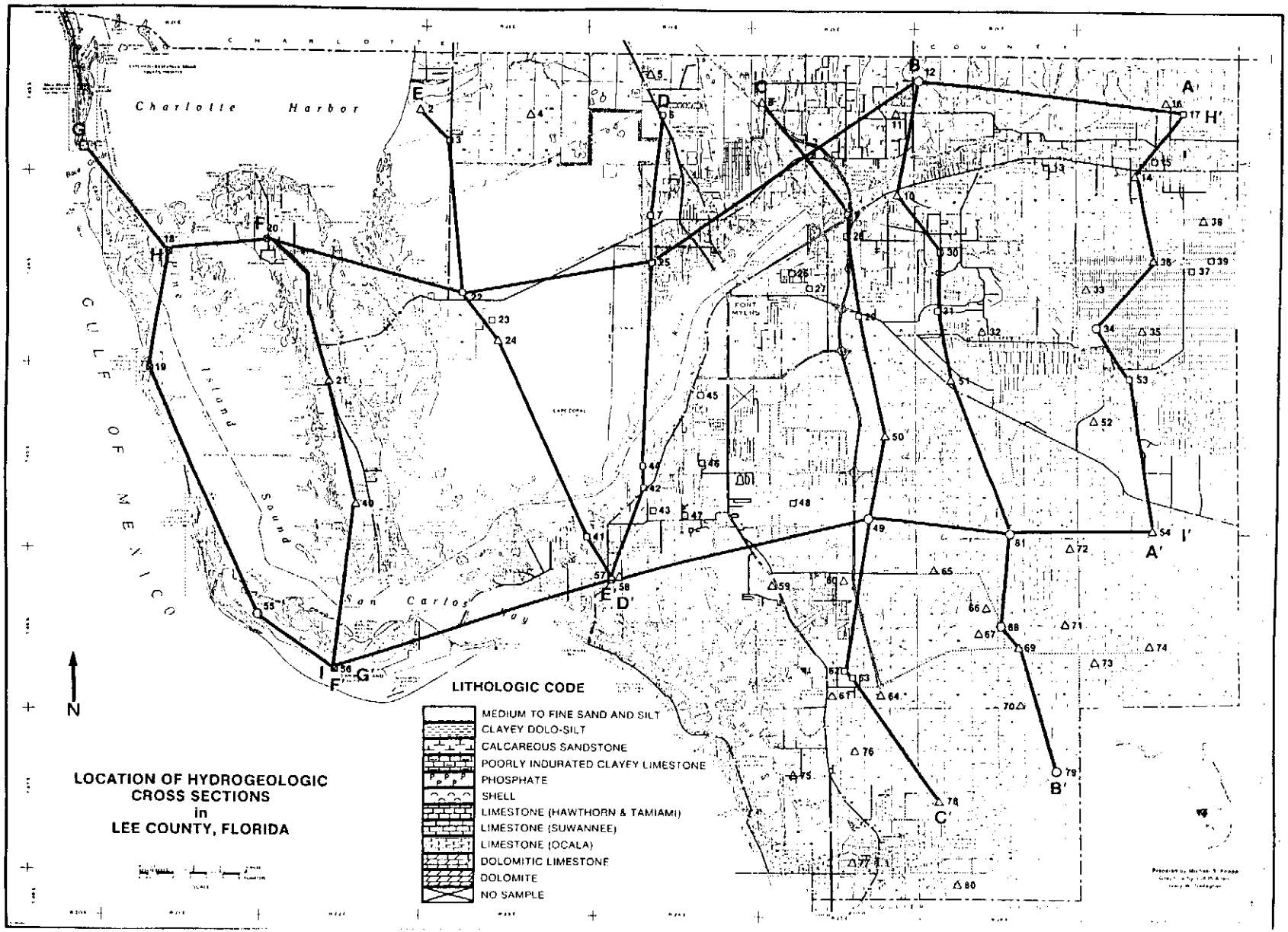


Technical Publication No. 82-1, Plate No. 10, Thickness of the Hawthorn Formation



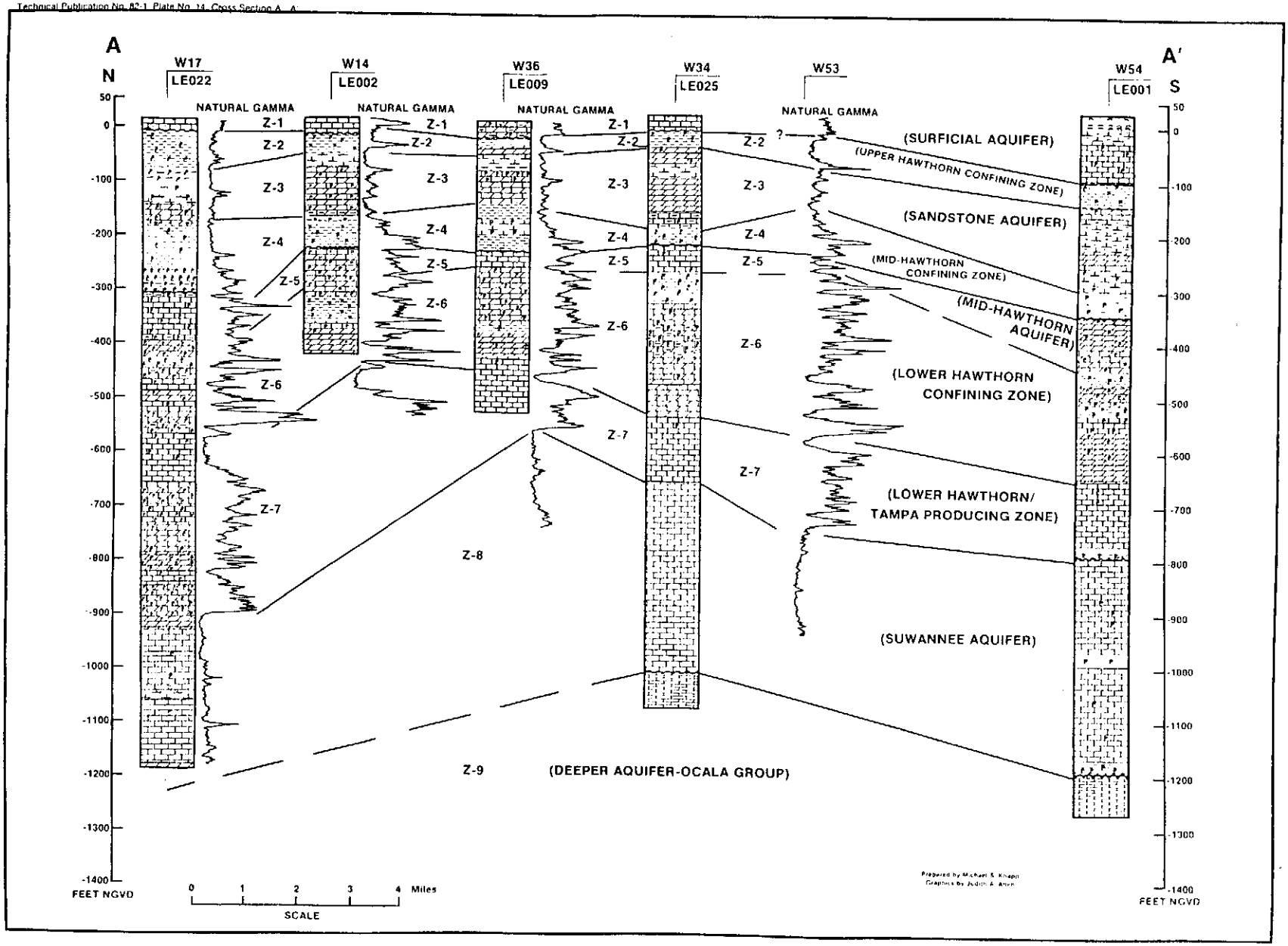

THE THICKNESS OF THE
LOWER CARBONATE MEMBER
OF THE
HAWTHORN FORMATION
IN LEE COUNTY, FLORIDA
LEGEND
50
Thickness Contour
(contour interval, 50 feet)
Charlotte Harbor
Gulf of Mexico
Sanibel Island
San Carlos Bay


THE ELEVATION OF THE TOP
OF THE
SUWANNEE LIMESTONE
IN LEE COUNTY, FLORIDA
LEGEND
-50
Elevation Contour in NGVD
(contour interval, 50 feet)
Charlotte Harbor
GULF OF MEXICO
Pine Island Sound
San Carlos Bay
-550
-600
-650
-700
-750
-800
-850

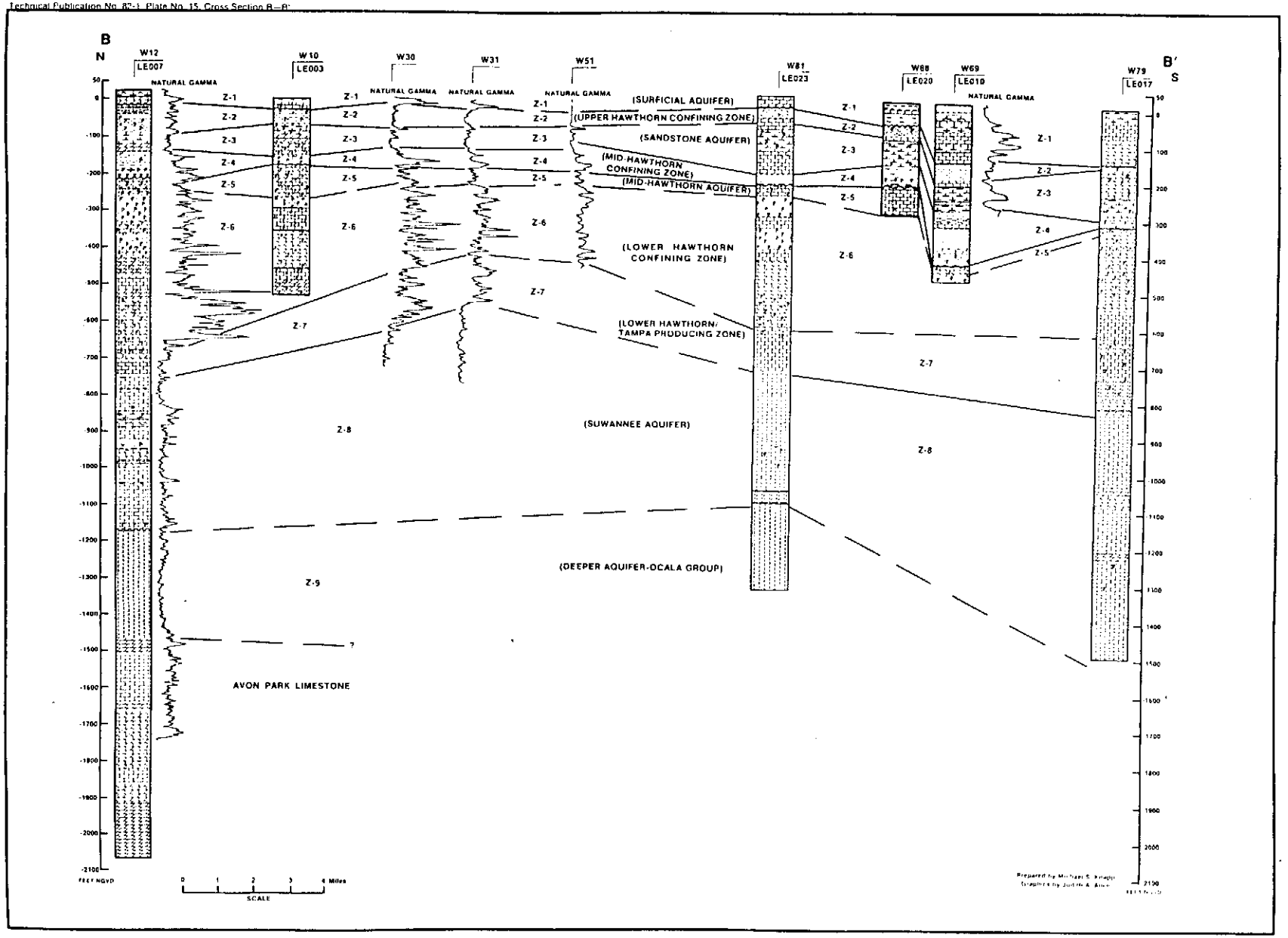


LOCATION OF HYDROGEOLOGIC CROSS SECTIONS in LEE COUNTY, FLORIDA

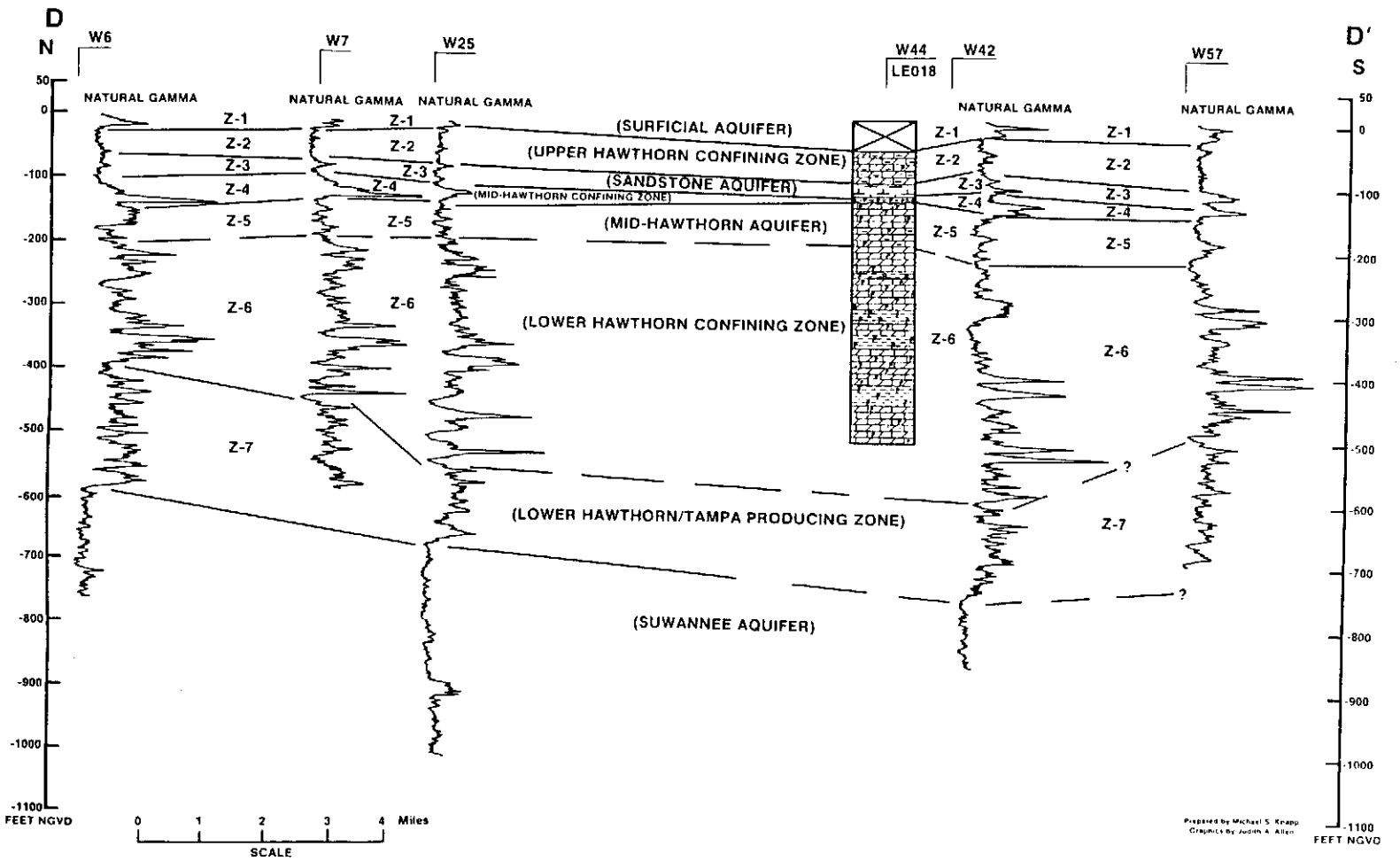
Technical Publication No. 82-1, Plate No. 14, Cross Section A - A'



Technical Publication No. 82-1, Plate No. 15, Cross Section B—B'

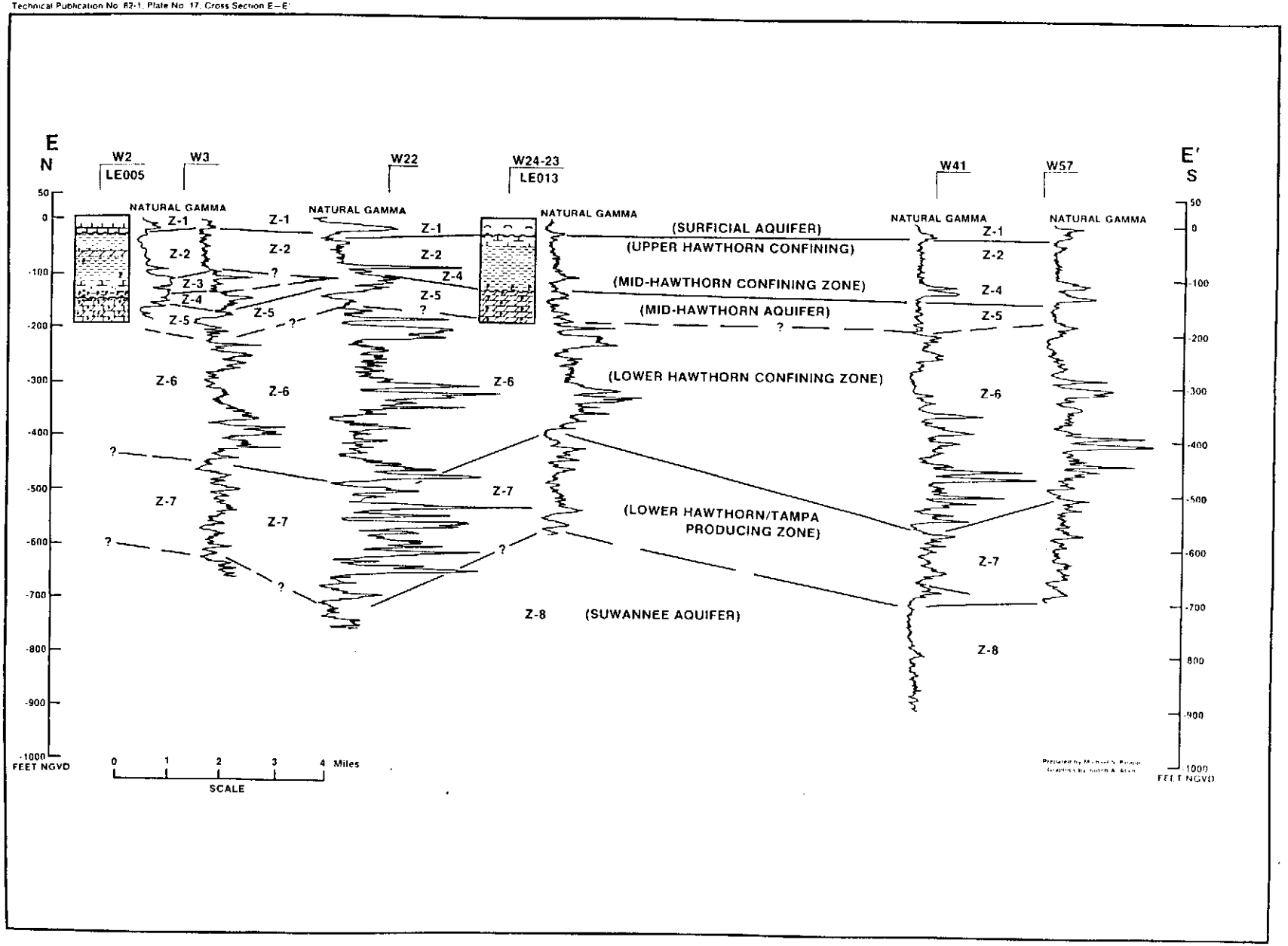


Technical Publication No. 82-1 Plate No. 15. Cross Section D—D'

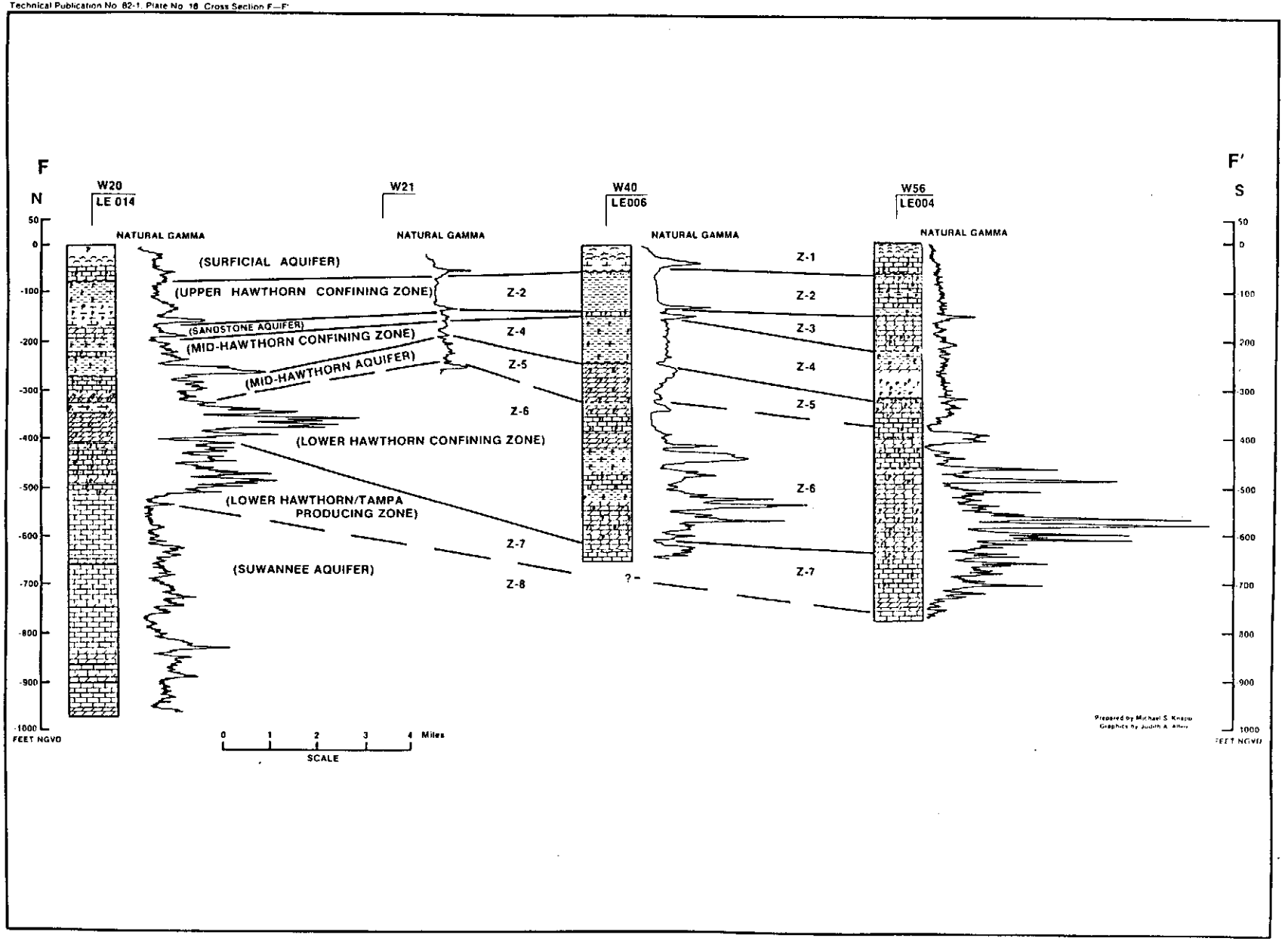


Prepared by Michael S. Knapp
Graphics By Judith A. Allen

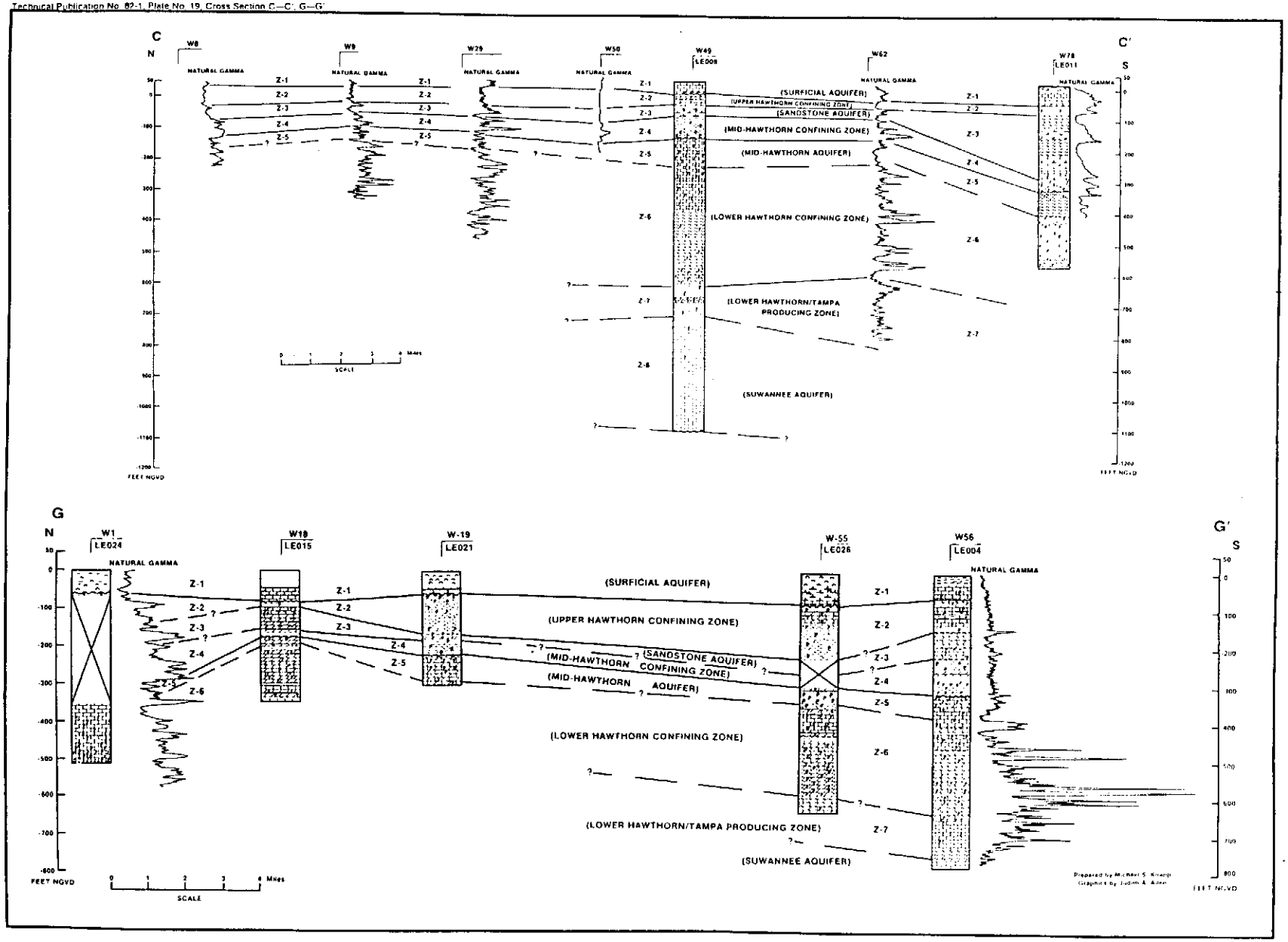
Technical Publication No. 82-1, Plate No. 17, Cross Section E–E'



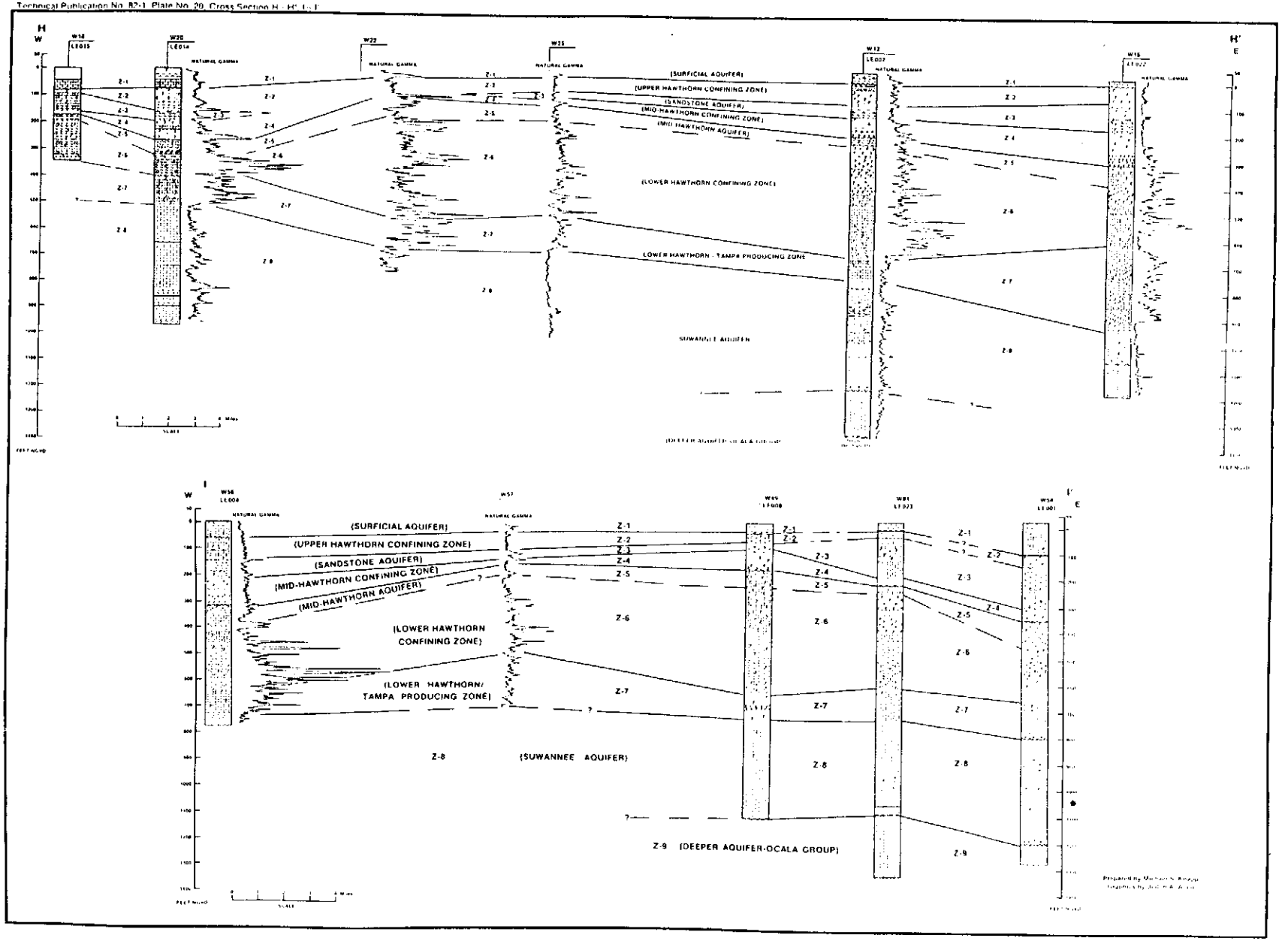
Technical Publication No. 82-1, Plate No. 18 Cross Section F—F'



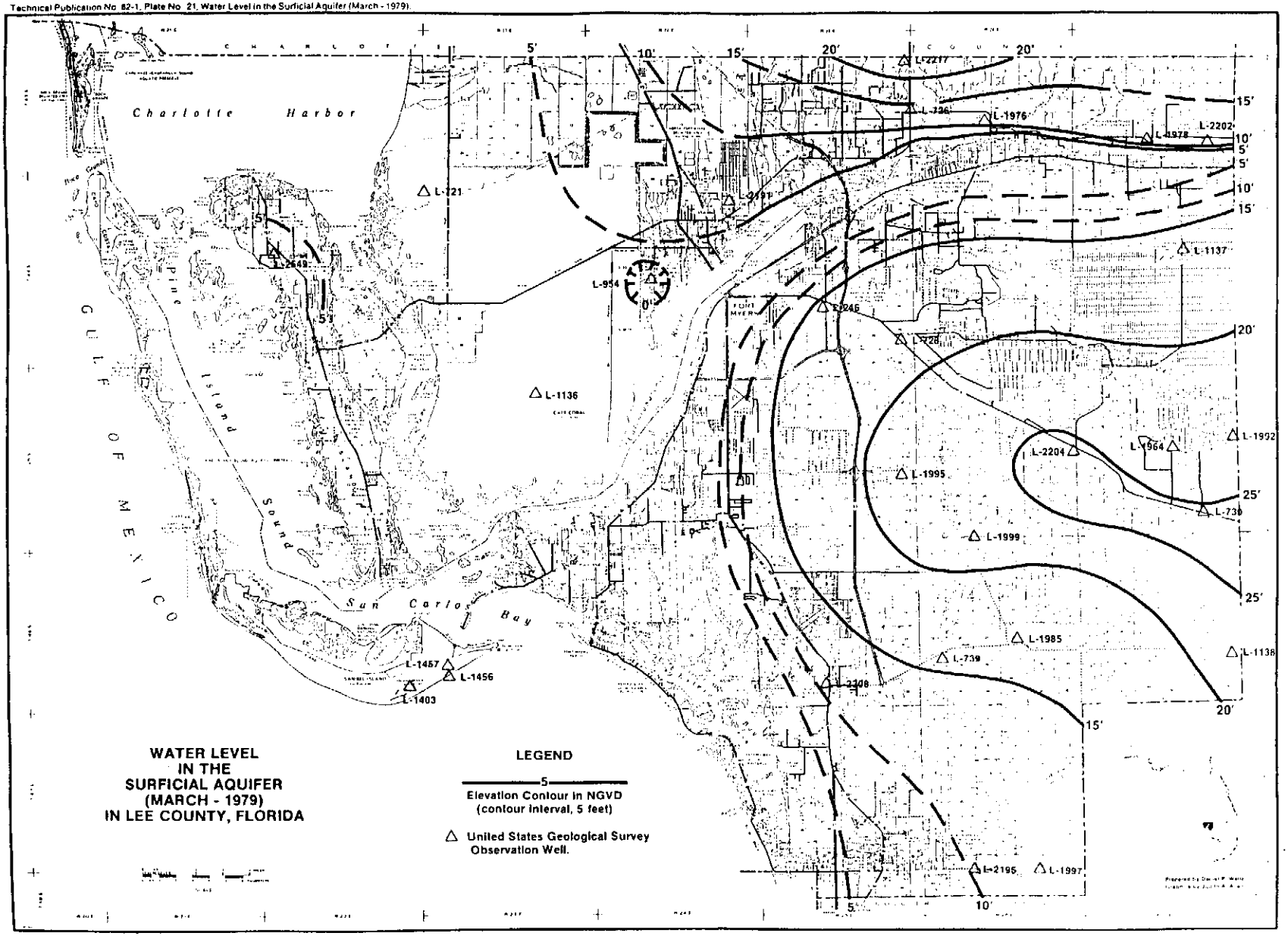
Technical Publication No. 82-1, Plate No. 19, Cross Section C—C', G—G'



Technical Publication No. 82-1, Plate No. 20, Cross Section H - H', I - I'



Technical Publication No. 82-1, Plate No. 21, Water Level in the Surficial Aquifer (March - 1979).



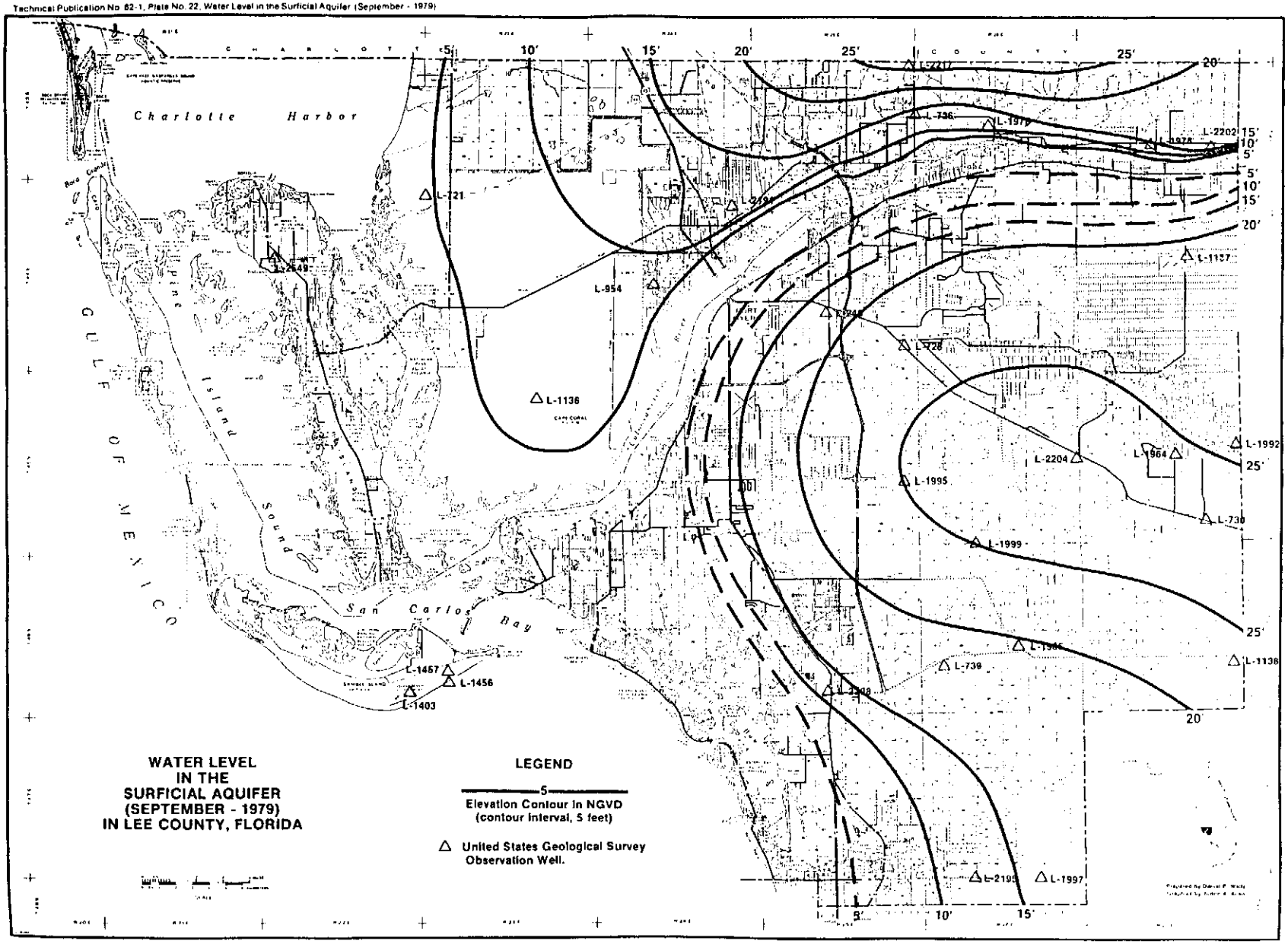
WATER LEVEL IN THE SURFICIAL AQUIFER (MARCH - 1979) IN LEE COUNTY, FLORIDA

LEGEND

5 — Elevation Contour in NGVD (contour interval, 5 feet)

△ United States Geological Survey Observation Well.

Technical Publication No. 82-1, Plate No. 22, Water Level in the Surficial Aquifer (September - 1979)



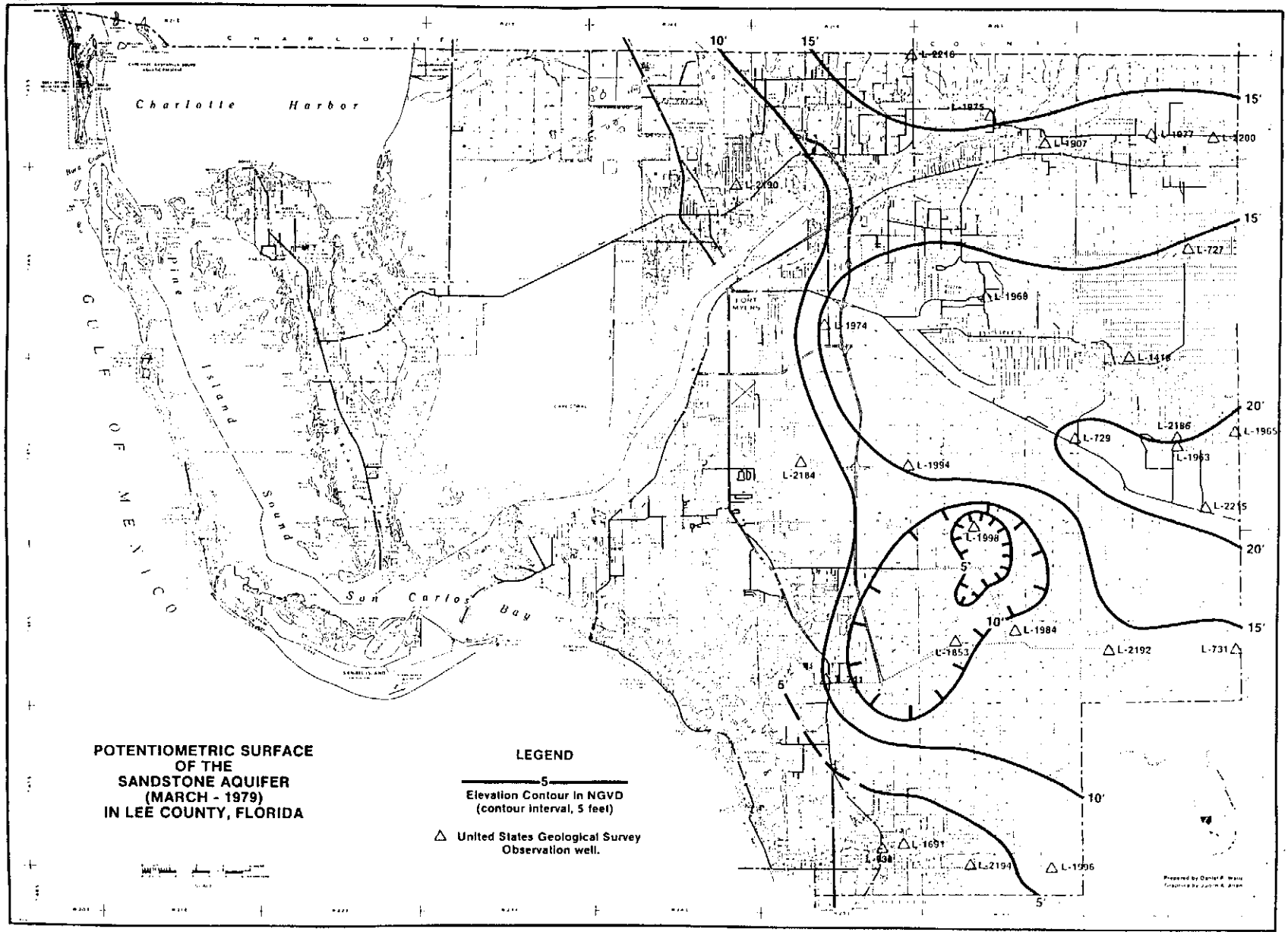
WATER LEVEL IN THE SURFICIAL AQUIFER (SEPTEMBER - 1979) IN LEE COUNTY, FLORIDA

LEGEND

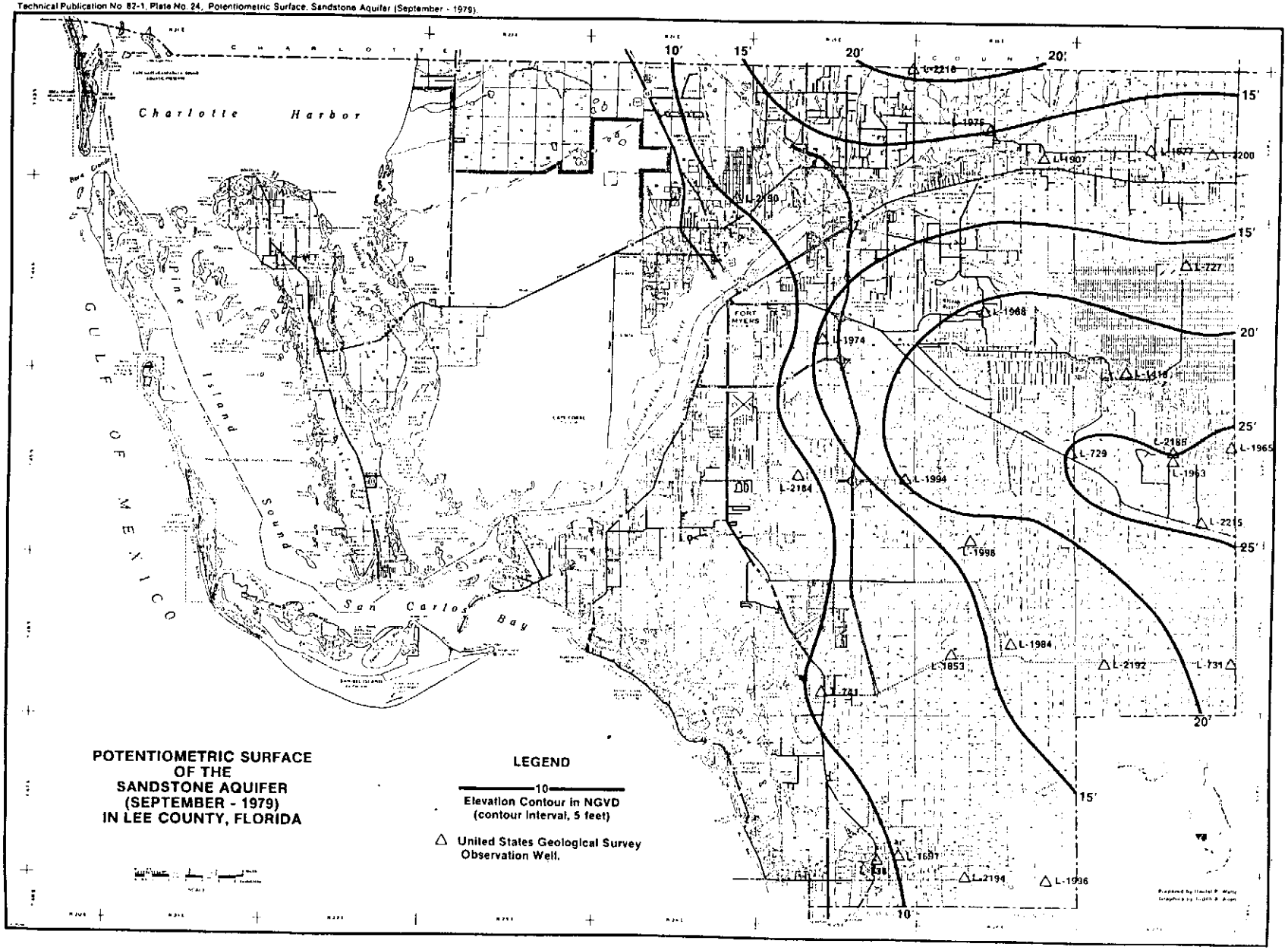
5 — Elevation Contour in NGVD (contour interval, 5 feet)

△ United States Geological Survey Observation Well.

Technical Publication No. 82-1, Plate No. 23, Potentiometric Surface, Sandstone Aquifer (March - 1979)



Technical Publication No. 82-1, Plate No. 24, Potentiometric Surface, Sandstone Aquifer (September - 1979).



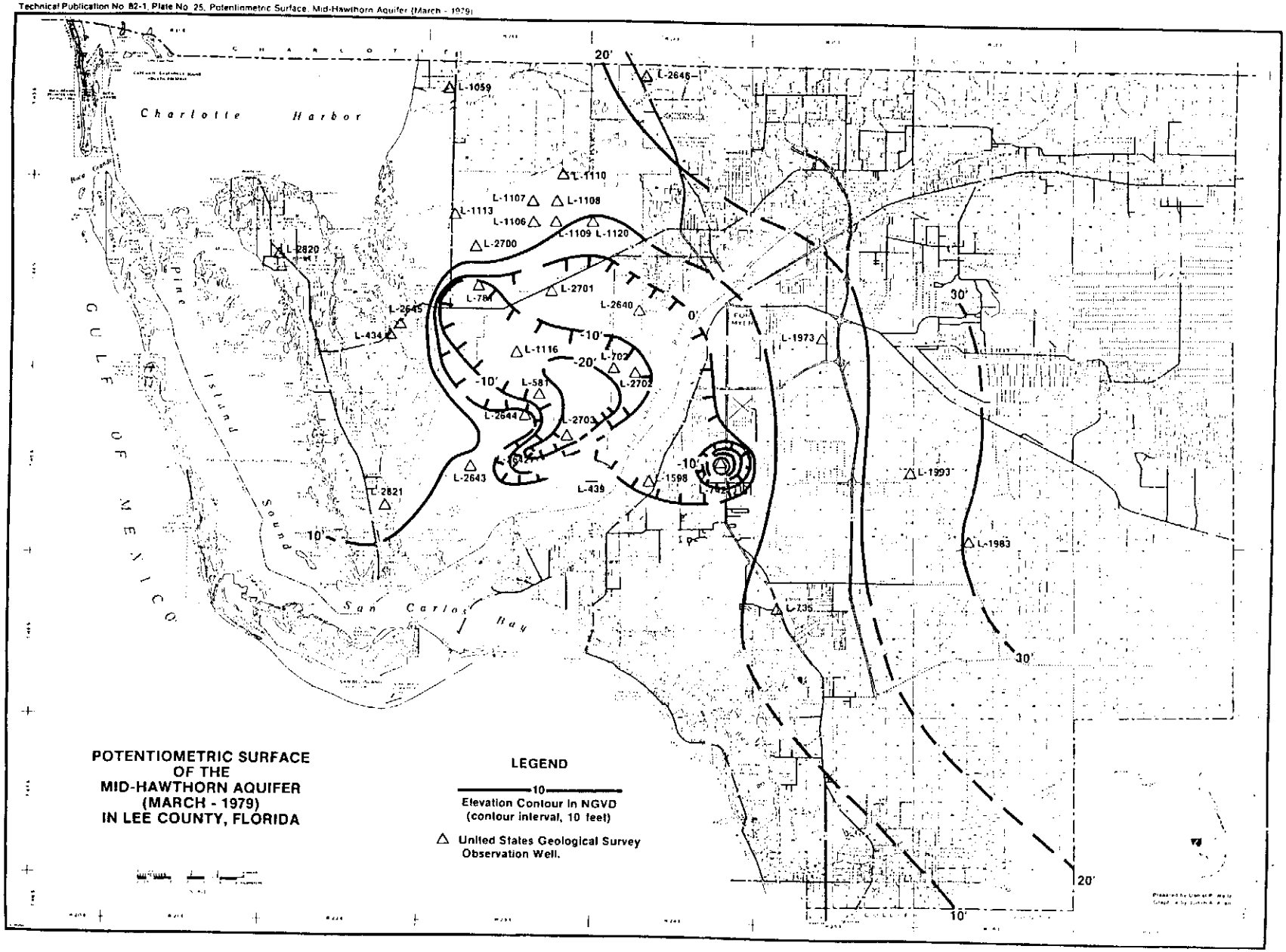
POTENTIOMETRIC SURFACE
OF THE
SANDSTONE AQUIFER
(SEPTEMBER - 1979)
IN LEE COUNTY, FLORIDA

LEGEND

10 — Elevation Contour in NGVD (contour interval, 5 feet)

△ United States Geological Survey Observation Well.

Technical Publication No. 82-1, Plate No. 25, Potentiometric Surface, Mid-Hawthorn Aquifer (March - 1979)



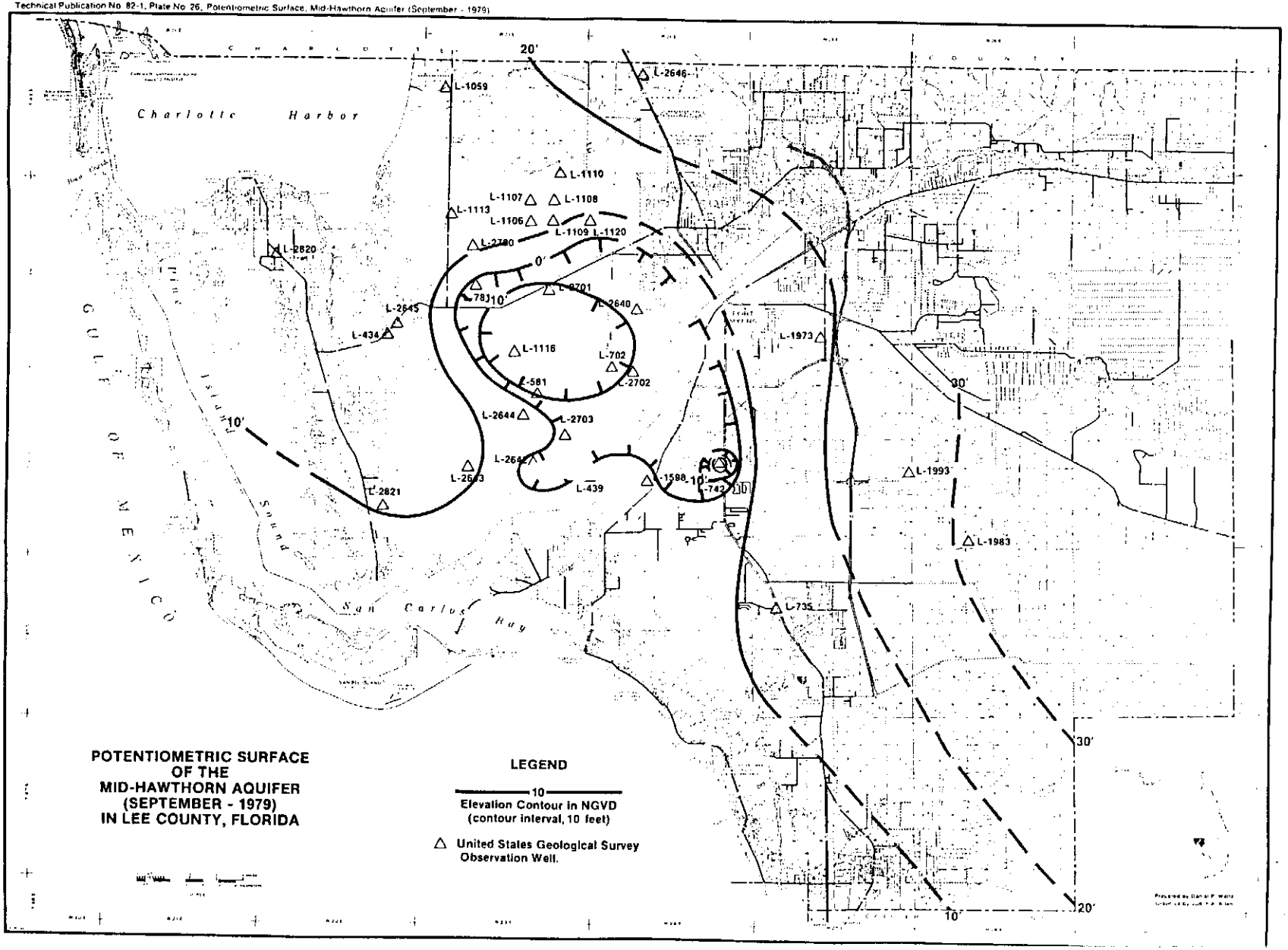
POTENTIOMETRIC SURFACE
OF THE
MID-HAWTHORN AQUIFER
(MARCH - 1979)
IN LEE COUNTY, FLORIDA

LEGEND

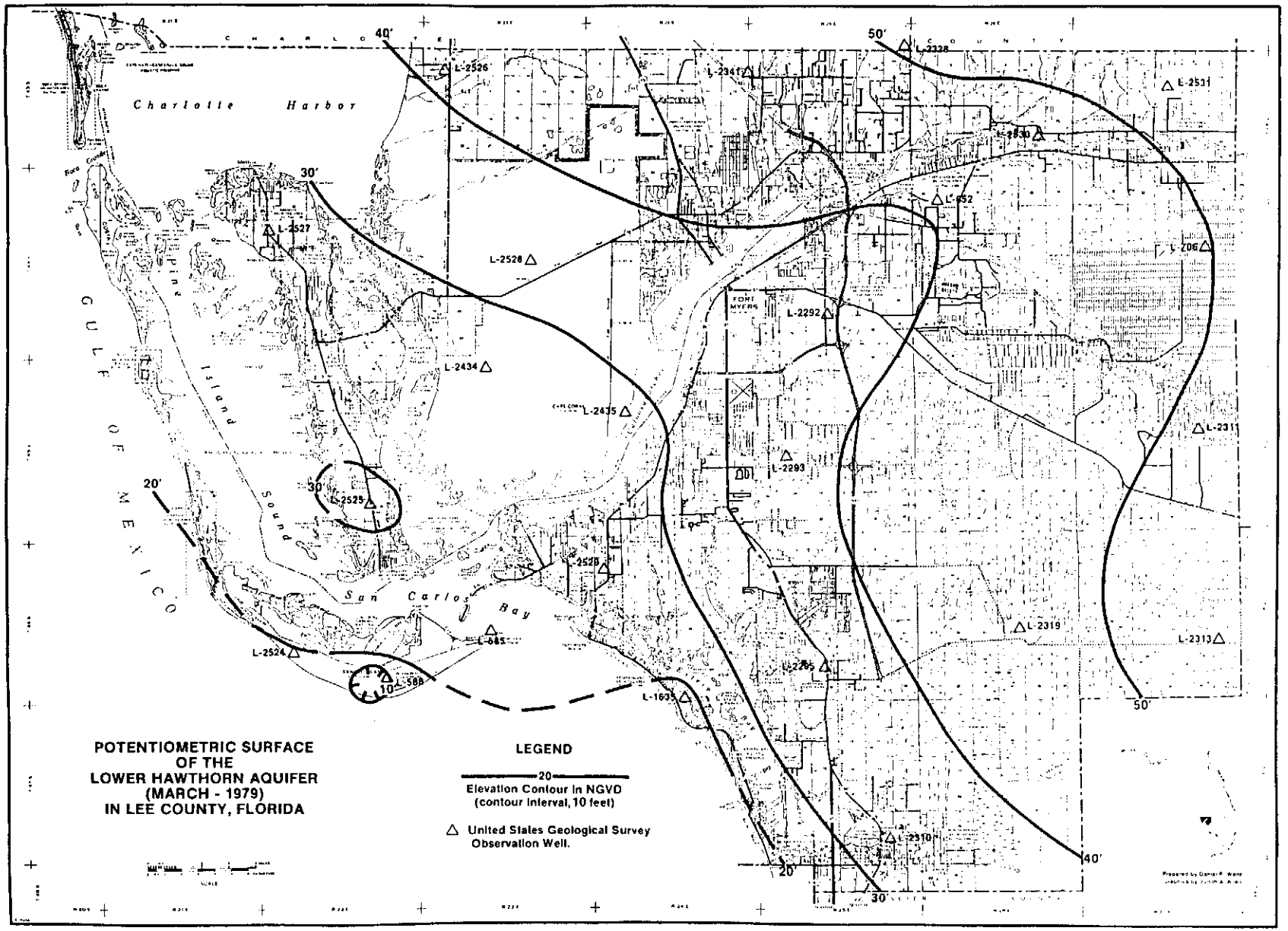
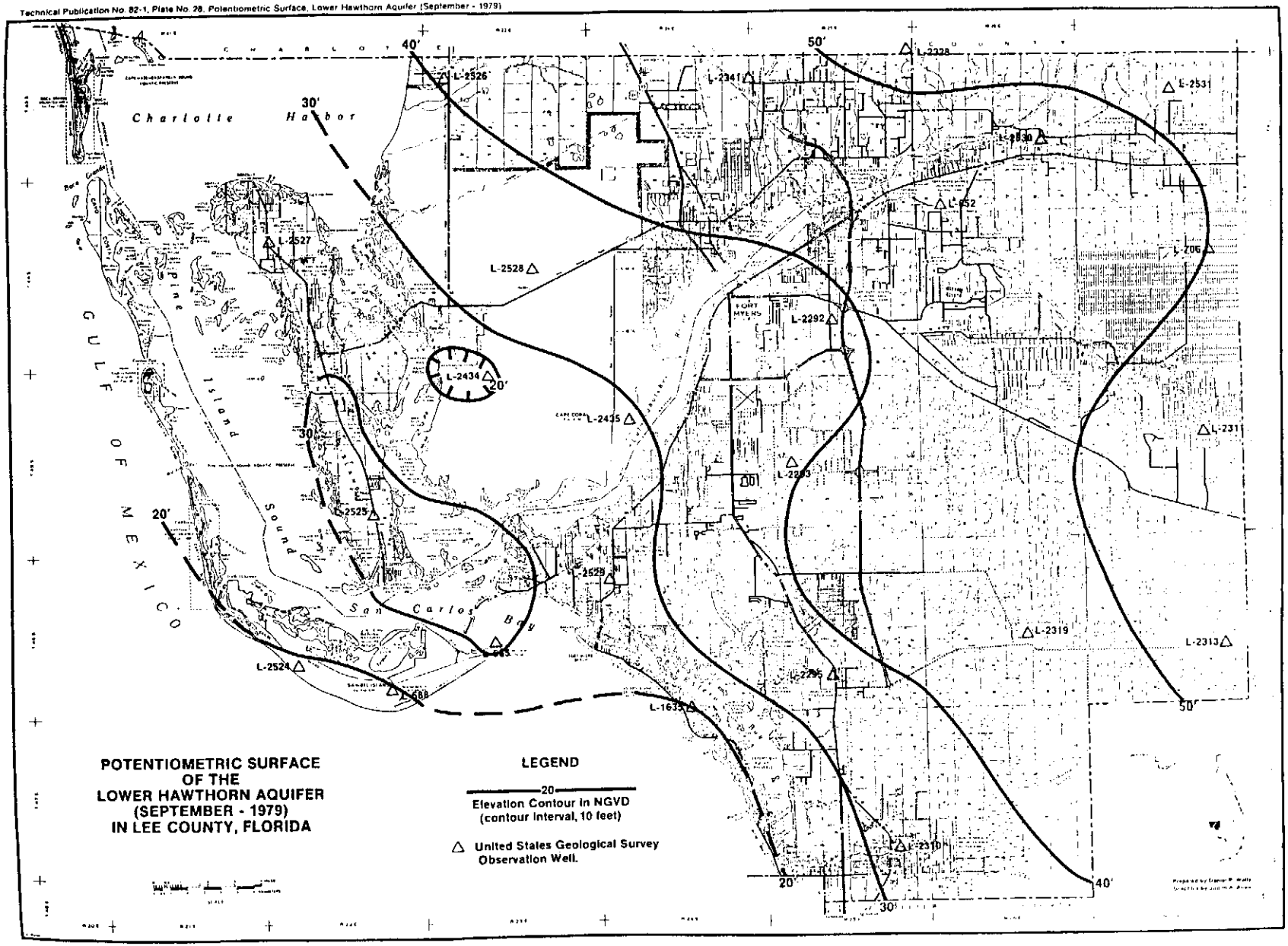
10
Elevation Contour in NGVD
(contour interval, 10 feet)

△ United States Geological Survey
Observation Well.

Technical Publication No. 82-1, Plate No. 26, Potentiometric Surface, Mid-Hawthorn Aquifer (September - 1979)



Technical Publication No. 82-1, Plate No. 27. Potentiometric Surface, Lower Hawthorn Aquifer (March - 1979).



Technical Publication No. 82-1, Plate No. 28. Potentiometric Surface, Lower Hawthorn Aquifer (September - 1979)