

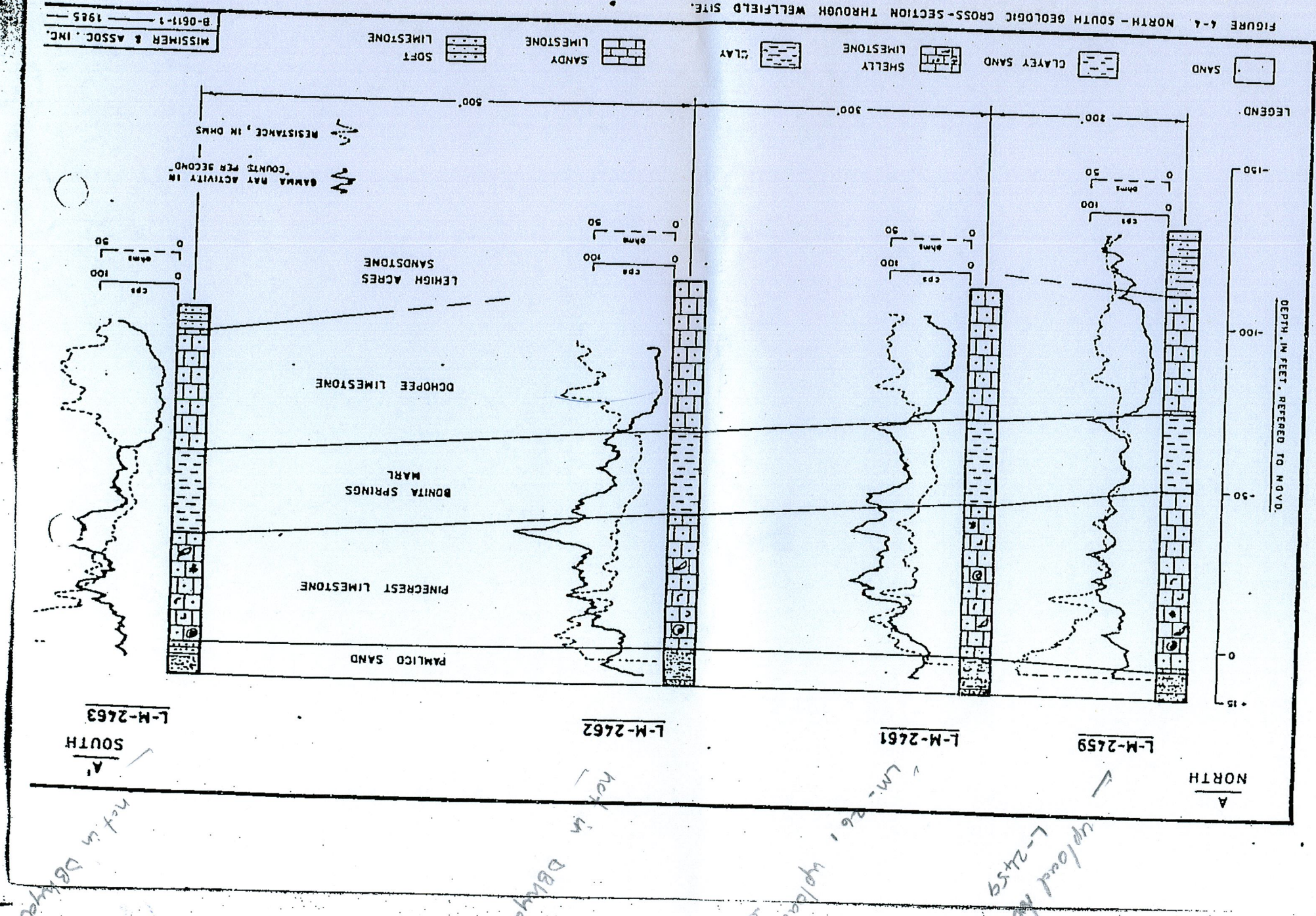
LEE COUNTY

Bonita Springs Utilities

app 060688B

36-0008W

T 46x47
R 25x26



not in DB hydro

L-2460 - ok

not in DB hydro

upload lithology & water picks

upload lithology & water picks L-2459

A NORTH

CH2M HILL
WELL DRILLING REPORT
 PROJECT NO. FC18585.C2

WELL: 13

LOCATION: Bonta Springs

Well Field

COUNTY: Lee STATE: FL

GROUND ELEVATION: _____

DIAMETER: 12"

DEPTH: 110'

STATIC WATER LEVEL: 11.7' L.S.D.

DATE: 5/3/88

CASING: 12" steel

SCREEN: none

CONSTRUCTION: rotary

DRILLER: Youngquist Bros

DATE FINISHED: 5/3/88

PUMPING TEST

SPECIFIC YIELD 56 gpm/ft @ 700 gpm

WATER ANALYSIS (ppm)

TDS _____

TOTAL HARDNESS _____

M.O. ALKALINITY _____

CHLORIDE Cl _____

IRON Fe _____

SULFATE SO₄ _____

COLOR (APHA) _____

CALCIUM _____

COMMENTS Production Zone

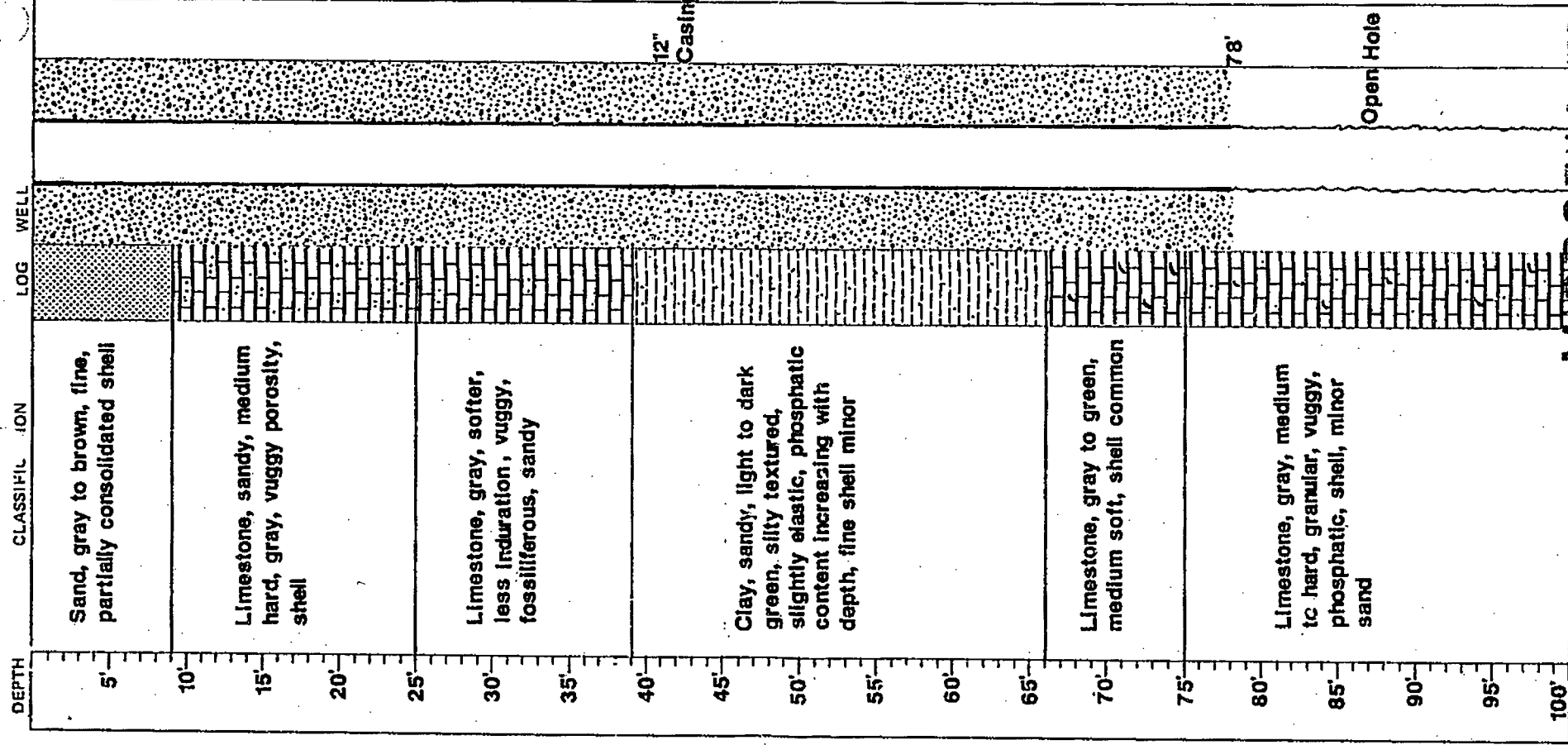
66'-110'

COMPILED BY M. Reilly

DATE 5/10/88

1 AS CaCO₃

FORM 381



MICROFILM

CH2M HILL
WELL DRILLING REPORT
 PROJECT NO. **FC18585.C2**

WELL: **12**
 LOCATION: **Bonita Springs Well Field**
 COUNTY: **30** STATE: **FL**
 GROUND ELEVATION: _____
 DIAMETER: **12"**
 DEPTH: **105'**
 STATIC WATER LEVEL: **13.2' L.S.D.**
 DATE: **5/6/88**
 CASING: **12" steel**
 SCREEN: **none**

CONSTRUCTION: **rotary**
 DRILLER: **Youngquist Bros**
 DATE FINISHED: **5/6/88**

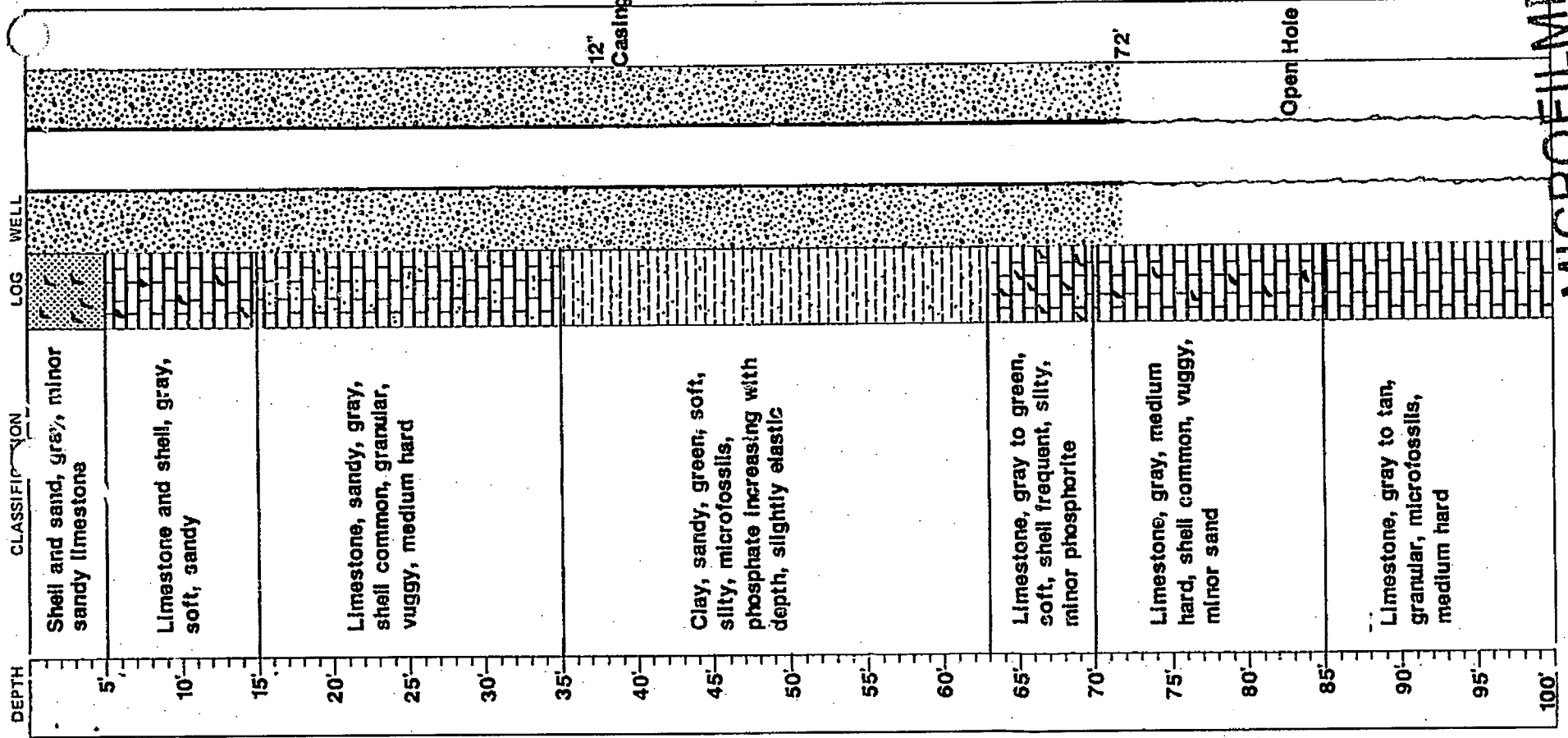
PUMPING TEST
 SPECIFIC YIELD _____ gpm/ft @ _____ gpm
 WATER ANALYSIS (ppm)

TDS _____
 TOTAL HARDNESS¹ _____
 M.O. ALKALINITY¹ _____
 CHLORIDE Cl _____
 IRON Fe _____
 SULFATE SO₄ _____
 COLOR (APHA) _____
 CALCIUM¹ _____

COMMENTS **Production Zone**

63'-105'

COMPILED BY **M. Reilly**
 DATE **5/10/88**



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WELL DRILLING REPORT

PROJECT NO. FC18585.C2

WELL: 15

LOCATION: Bonita Springs

Well Field

COUNTY: Lee STATE: FL

GROUND ELEVATION: _____

DIAMETER: 12"

DEPTH: 115'

STATIC WATER LEVEL: 14.2' L.S.D.

DATE: 4/29/88

CASING: 12" steel

SCREEN: none

CONSTRUCTION: rotary

DRILLER: Youngquist Bros

DATE FINISHED: 4/29/88

PUMPING TEST

SPECIFIC YIELD 50 gpm/ft @ 700 gpm

WATER ANALYSIS (ppm)

TDS _____

TOTAL HARDNESS _____

M.O. ALKALINITY¹ _____

CHLORIDE Cl _____

IRON Fe _____

SULFATE SO₄ _____

COLOR (APHA) _____

CALCIUM¹ _____

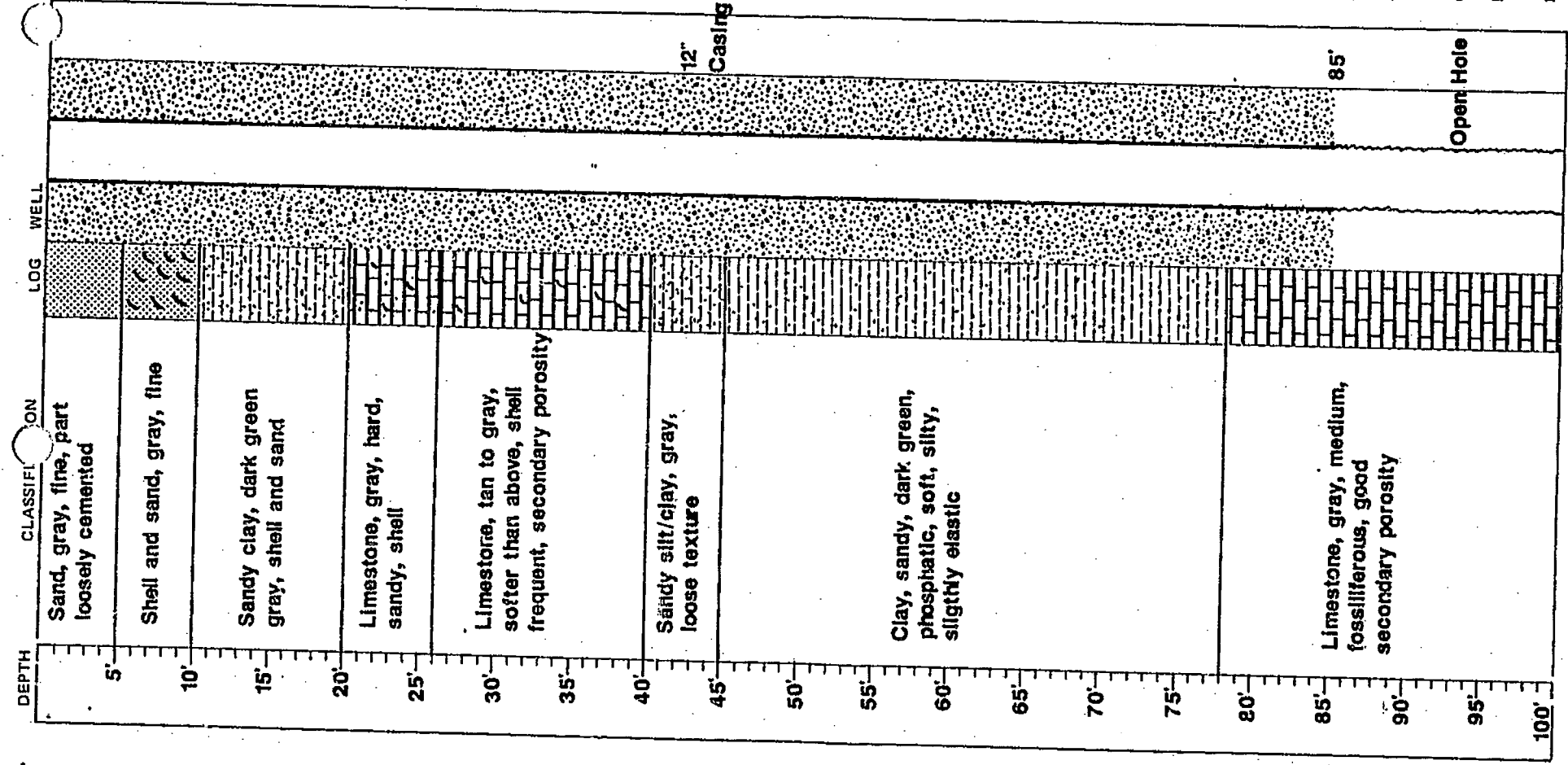
COMMENTS Production Zone

78'-115'

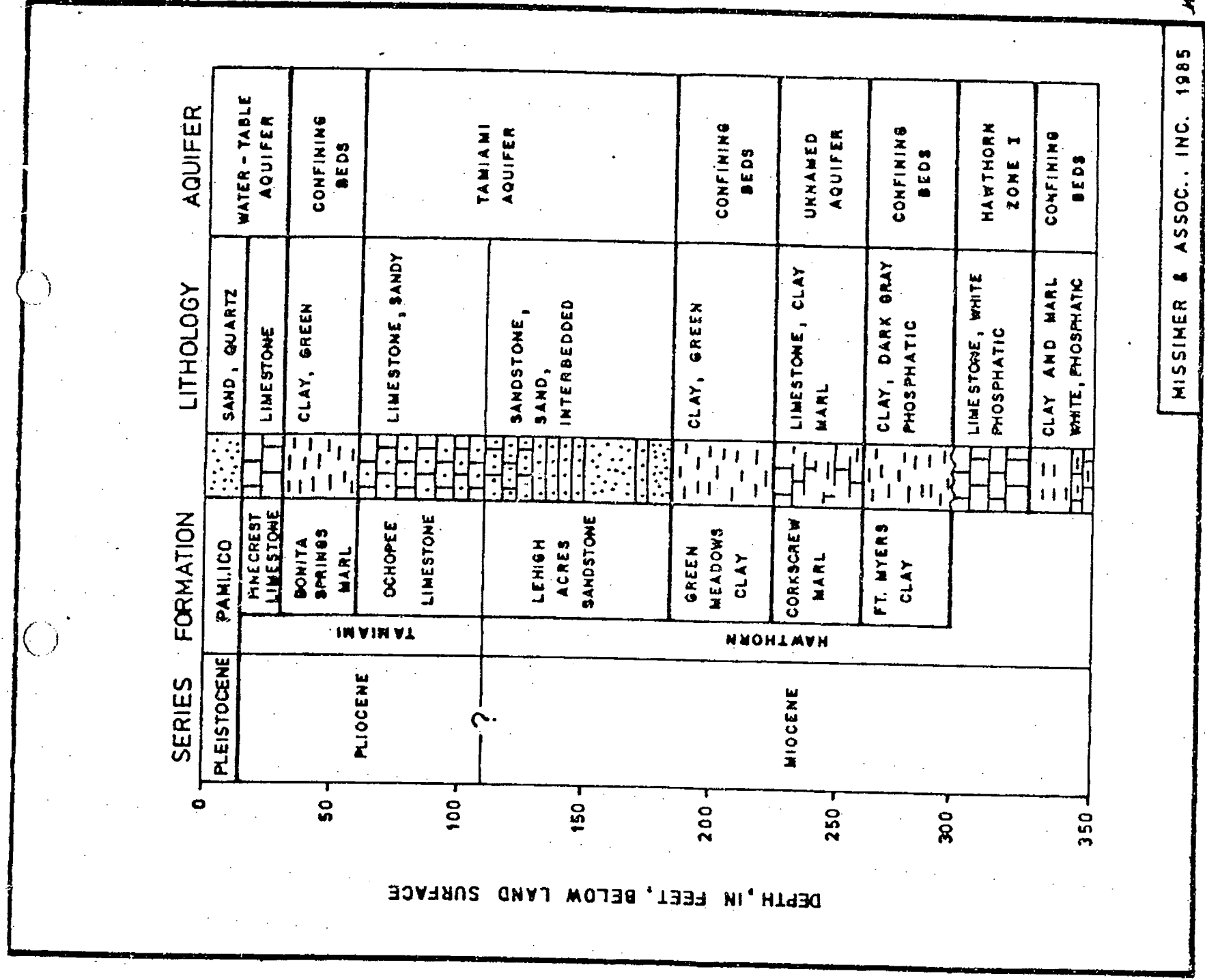
COMPILED BY M. Rolly

DATE 5/10/88

¹ AS CaCO₃



MICROFILMED



MISSIMER & ASSOC., INC. 1985

FIGURE 4-1. DIAGRAM SHOWING THE GENERALIZED GEOLOGY AND STRATIGRAPHIC AQUIFER POSITIONS IN SOUTH LEE AND NORTHWEST COLLIER COUNTIES



WELL DRILLING REPORT

PROJECT NO. FC18585.C2

WELL: 16
 LOCATION: Bonita Springs
 Well Field
 COUNTY: Lee STATE: FL
 GROUND ELEVATION:
 DIAMETER: 12"
 DEPTH: 115'
 STATIC WATER LEVEL: 13.6' L.S.D.
 DATE: 4/26/88
 CASING: 12" steel
 SCREEN: none

CONSTRUCTION: rotary
 DRILLER: Youngquist Bros

DATE FINISHED: 4/26/88

PUMPING TEST

SPECIFIC YIELD 50 gpm/ft @ 700 gpm

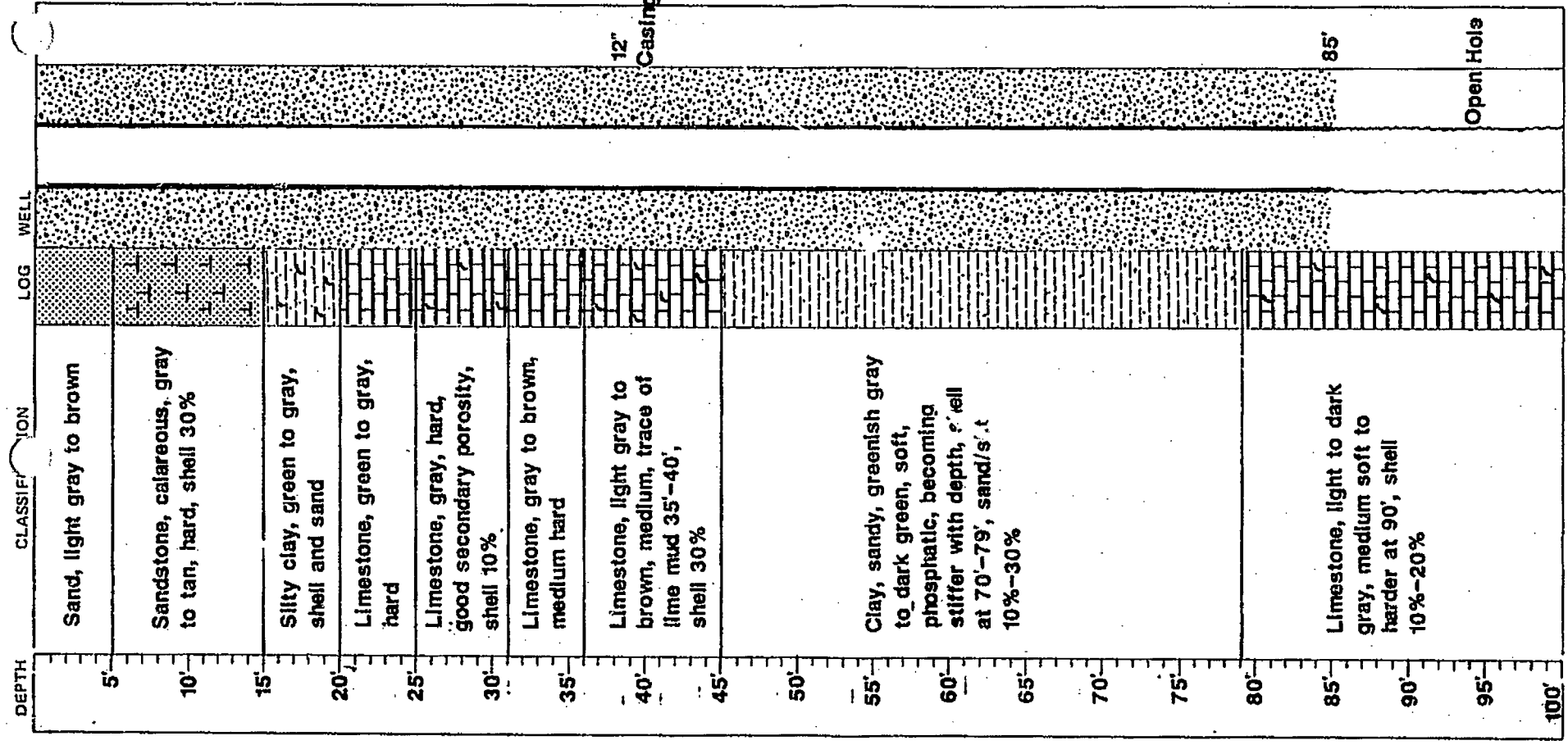
WATER ANALYSIS (ppm)

TDS
 TOTAL HARDNESS!
 M.O. ALKALINITY!
 CHLORIDE Cl
 IRON Fe
 SULFATE SO₄
 COLOR (APHA)
 CALCIUM!

COMMENTS Production Zone
 78'-115'

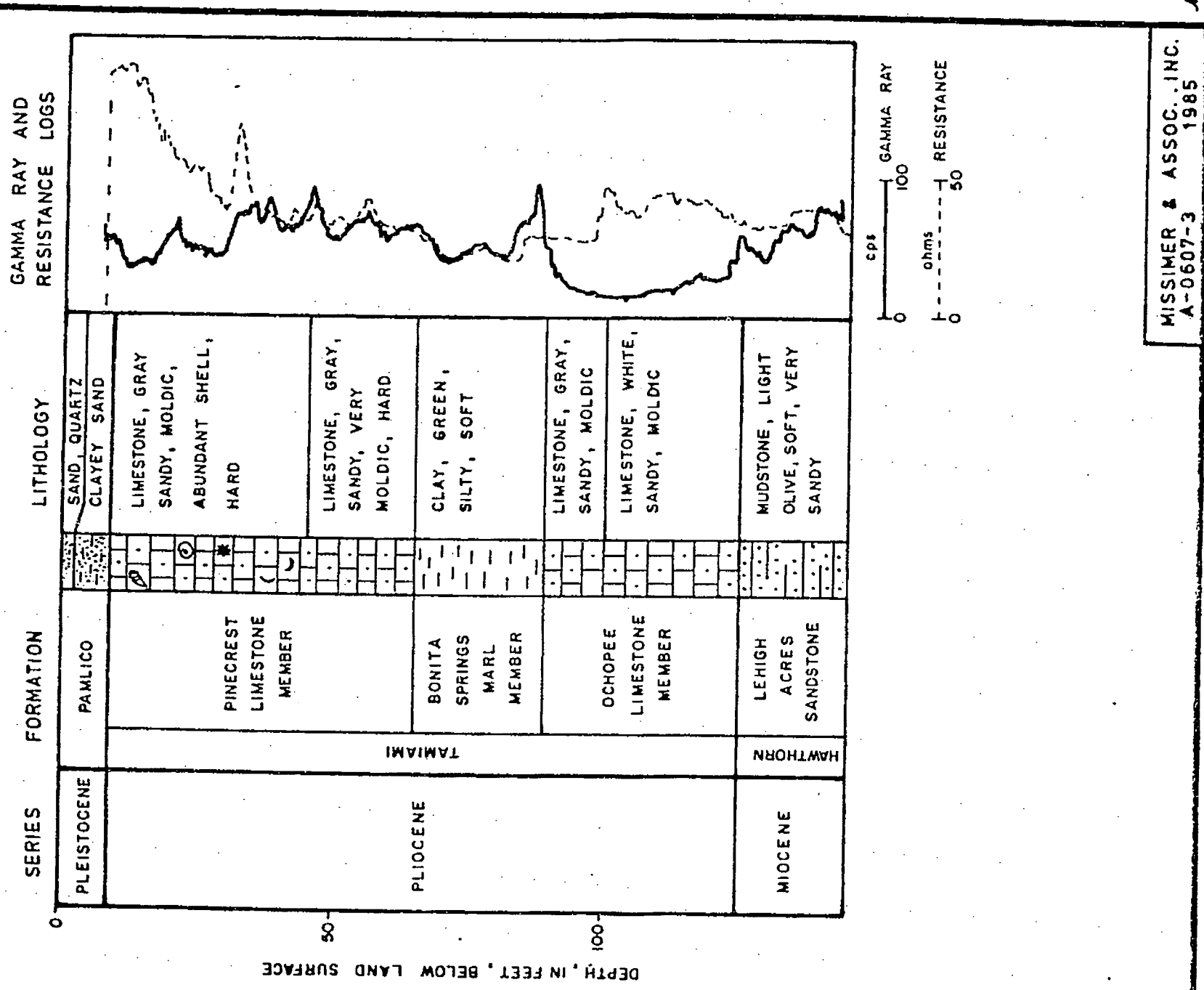
COMPILED BY M. Reilly
 DATE 5/10/88

¹AS CaCO₃



MICROFILMED

WELL L-M-2459



MISSIMER & ASSOC., INC.
A-0607-3
1985

M

FIGURE 4-2. GEOLOGIC SECTION OF WELL L-M-2459 WITH GAMMA RAY AND RESISTANCE LOGS

TABLE A-1. GEOLOGIST LOG OF TEST-PRODUCTION WELL L-M-2459

<u>Depth(feet)</u>	<u>Lithology</u>
0-2	Sand, white to light gray, fine quartz, organics common, medium permeability.
2-9	Clayey sand, gray-brown, some shell present, low to medium permeability.
9-16	Limestone, gray-tan, very sandy, medium, moldic, abundant molluscan shell, medium permeability.
16-19	Limestone, similar to above, hard to medium.
19-26	Limestone, similar to above, with shell common, good moldic porosity, high to medium permeability.
26-30	Limestone, gray, sandy, medium, moldic/macro-vugular porosity, shell common (mollusks, coral, borings) some loss of drilling fluid, high permeability.
30-33	Limestone, similar to above, but hard to very hard.
33-45	Limestone, gray to off-white, very sandy, medium, abundant uniformly tan shell (whole shells common; predominantly mollusks with some coral and worm borings), minor secondary spar, medium to high permeability.
45-65	Limestone, gray, sandy, medium, coarsely moldic with occasional shell, some loss of drilling fluid, high permeability.
65-68	Clay, light olive, soft, quartz sand and phosphate sand common, low permeability.
68-89	Clay, green, stiff, silty, low permeability.
89-99	Limestone, light gray, sandy, medium, moldic, occasional shell, high to medium permeability.
99-125	Limestone, off-white, sandy, good moldic porosity, trace shell, medium to medium soft, some arenaceous texture, high permeability.
125-145	Limestone, light olive, soft, very sandy mudstone, minor shell molds, occasional shell, friable to sandy/silty mud, medium to low permeability.

TABLE A-2.

GEOLOGIST LOG OF OBSERVATION WELL L-M-2460

<u>Depth(feet)</u>	<u>Lithology</u>
0-2	Sand, white to light gray, fine, unconsolidated quartz, organic plant material common, medium permeability.
2-3	Clayey sand, gray, quartz as above with 30-50% medium gray detrital clay, organics common, low to medium permeability.
3-5	Shell and clayey sand, unconsolidated bleached white molluscan shell occurring with 40-60% sand and clayey sand as above, medium to low permeability.
5-7	Sandstone, dark yellow, medium, calcareous matrix, white molluscan shell fragments common, medium permeability.
7-8	Shell and clayey sand, white molluscan shell and light blue gray clayey sand, medium to low permeability.
8-17	Limestone, beige to light gray, medium to medium hard, very sandy with abundant molluscan shell fragments, occasional mold or cast, trace secondary spar, medium permeability.
17-19	Limestone, similar to above, shell common, medium hard, molds and casts common, vugular, minor spar, medium to high permeability.
19-32	Limestone, similar to above, good vugular and moldic porosity, loss of drilling fluid, occasional shell, high permeability.
32-35	Limestone, gray to off-white, very hard, very sandy as above, abundant uniformly tan whole shell (predominantly bivalves with occasional gastropod and minor coral), medium to high permeability.
35-39	Limestone, similar to above, medium hard to hard, with abundant light beige coral fragments, medium to high permeability.

TABLE A-4. GEOLOGIST LOG OF OBSERVATION WELL L-M-2462

<u>Depth(feet)</u>	<u>Lithology</u>
0-1	Sand, gray, fine quartz, organics common, medium permeability.
1-4	Clayey sand, beige; occasional similar poor to fairly indurated sandstone, some organics, medium to low permeability.
4-6	Clayey sand, gray-brown, low to medium permeability.
6-11	Clayey sand, light green-gray, low to medium permeability.
11-14	Limestone, beige to light gray, medium, very sandy, abundant molluscan shell fragments, medium permeability.
14-19	Limestone, similar to above, hard, less shell but common, moldic, minor spar, medium to high permeability.
19-26	Limestone, similar to above, moldic, very sandy, hard, occasional shell, good secondary porosity, high permeability.
26-29	Limestone, similar to above, very hard, good moldic porosity, high permeability.
29-43	Limestone, light gray to beige, medium 30% uniformly tan shell (mollusk, coral, bryozoa), whole shells common to abundant, medium to high permeability.
43-53	Limestone, gray, sandy, medium, good moldic porosity, 10-15% shell, medium to high permeability.
53-57	Clay, light olive, soft, quartz sand and phosphate sand common and decreasing with depth, low to medium permeability.
57-79	Clay, green, stiff, silty, low permeability.
79-95	Limestone, light gray, medium, sandy, moldic, occasional shell, medium to high permeability.
95-115	Limestone, off-white, medium, sandy, good moldic porosity, some arenaceous texture, high to medium permeability.
115-125	Limestone, as above but medium soft, very sandy, minor phosphate sand.