

BILL SHEFFIELD, GOVERNOR

DEPARTMENT OF FISH AND GAME

2207 Spenard Road
ANCHORAGE, ALASKA 99503-1617
03-84-7.10-0.6

January 27, 1984

FEB 13 1984

Bill Wilson
Principal Investigator
Arctic Environmental Information Data Center
707 A Street
Anchorage, Alaska 99501

Dear Bill:

Attached are the scatter plots referenced to in the draft Winter Studies Report that you requested as part of your November 10, 1983 review comments on that report. These plots were part of a preliminary analysis of our basic data and should therefore be used with discretion. I have enclosed an interoffice memo summarizing the rationale used in developing the plots. I will be happy to answer any further questions you may have.

Sincerely,



Thomas W. Trent
Aquatic Studies Coordinator
Su Hydro Aquatic Studies
Telephone: (907) 274-7583

cc: Richard Fleming/with attachments
Eric Marchegiani/with attachments

ARCTIC ENVIRONMENTAL INFORMATION
AND DATA CENTER
707 A STREET
ANCHORAGE, AK 99501

MEMORANDUM

State of Alaska

TO: Christopher Estes
Aquatic Habitat & Instream Flow
Project Leader
Su Hydro Aquatic Studies

THRU: Andy Hoffmann *AH*
Fisheries Biologist

FROM:

DATE: January 31, 1984

FILE NO: 03-84-7.10-0.6

TELEPHONE NO:

SUBJECT:

Len Vining *L.V.*
Fisheries Biologist
Su Hydro Aquatic Studies

Scatter Plots Requested By
AEIDC, November 10, 1983.

The following preliminary scatter plots are organized by water quality variable (i.e., temperature, dissolved oxygen, conductivity and pH). For each variable, scatter plots are provided for left and right banks of the four sloughs studied (sloughs 8A, 9, 11, and 21). These plots are preliminary and were used for initial data screening and trend analyses. They are in an unrefined form and are not intended for general distribution. I feel that further work expended on these plots would not be a valuable use of time and effort. If there are additional questions that arise for these plots they should be dealt with on an informal basis.

The following comments are provided to aid in the interpretation of the attached scatter plots.

1. In each figure, intragravel water quality data is plotted on the vertical axis and surface water quality data on the horizontal axis.
2. Descriptive information of slough, bank, and water quality variable is given at the top of each figure.
3. Units of water quality variables are as follows:
 - a. temperature given in °C,
 - b. dissolved oxygen (DO) given in mg/l,
 - c. conductivity given in umhos/cm,
 - d. pH given in pH units, representing the negative logarithm of the hydrogen ion concentration of the water sampled.
4. The legend for each figure appears in the lower right-hand corner of the page. The following terms are defined as follows (refer to Tables in Appendix B of the Alaska Department of Fish and Game (ADF&G) Su Hydro Water Aquatic Studies report).

Late = Sampling period from 15 to 18 April, 1982.

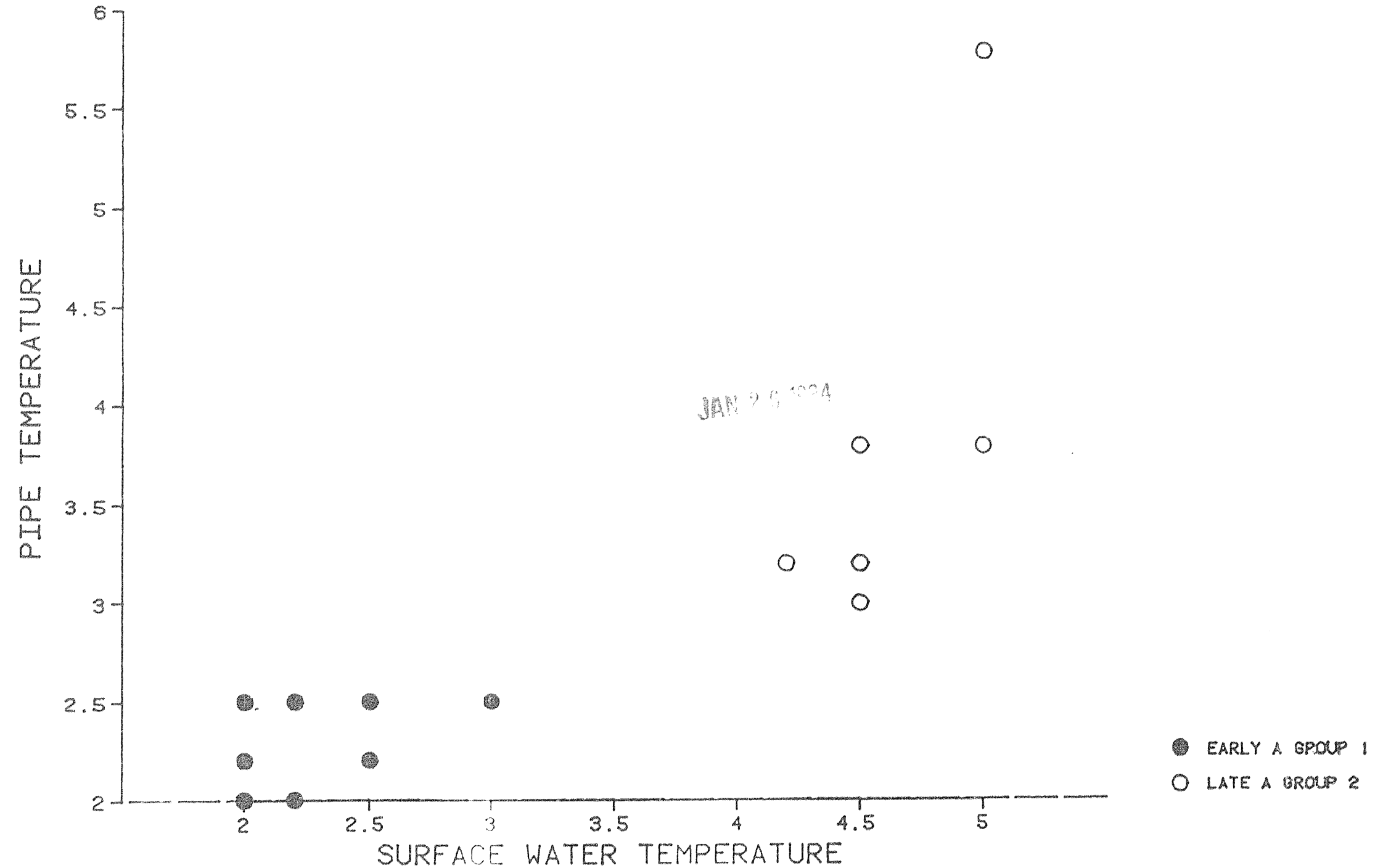
Early = Sampling period from 29 April to 2 May, 1982.

Letters A, B or C = Site designations within a particular slough.
Disregard "Group" designations.

5. There may be a discrepancy between the number of points plotted on a particular graph and the number of points reported in the corresponding table in Appendix B. This occurs because overlapping data points are represented as single points on the plots.
6. In the event that there is a discrepancy between the plots and data reported in the report, rely exclusively on the report data, because it has been checked thoroughly by ADF&G personnel.

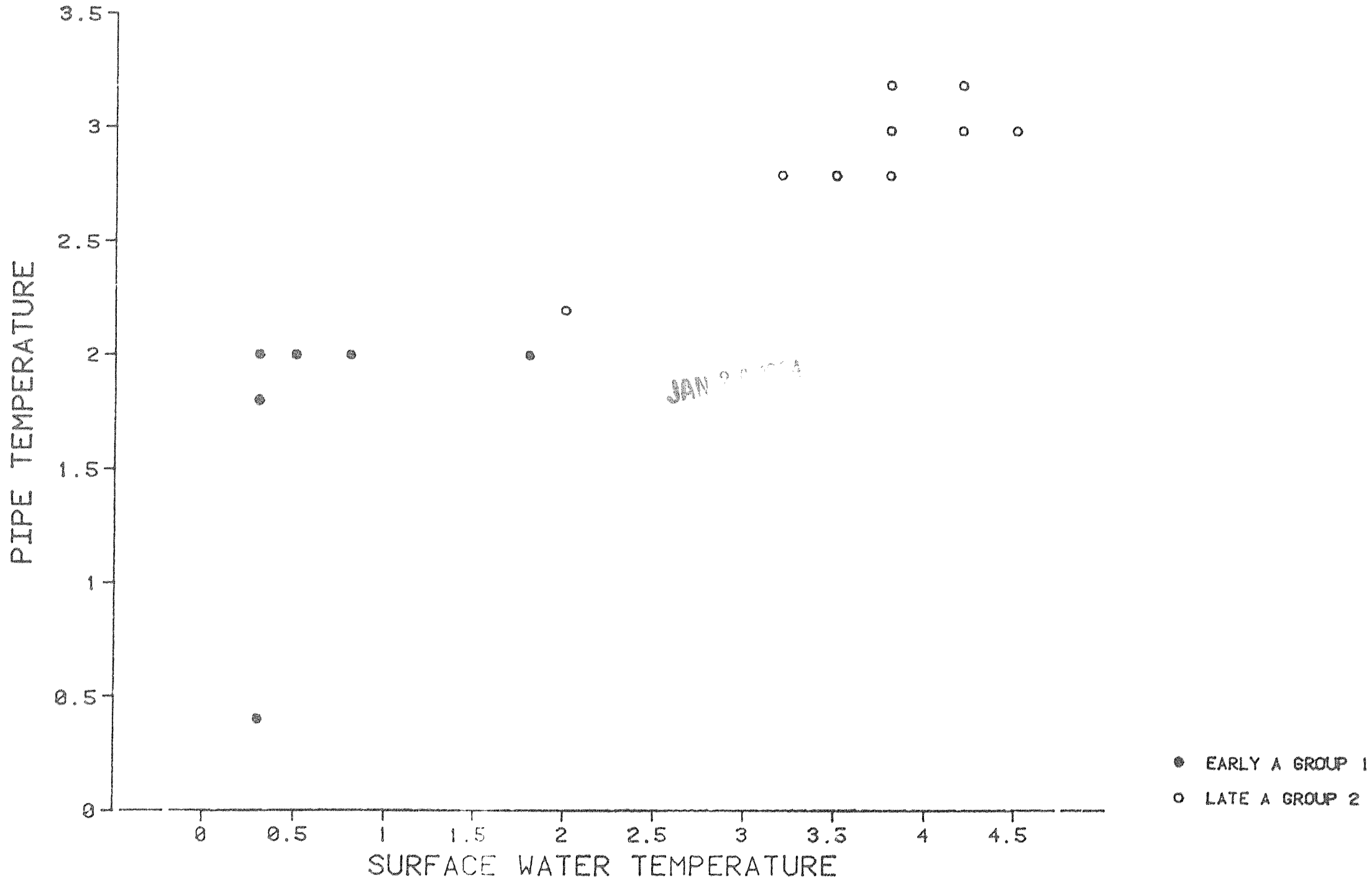
SLOUGH 8A

LEFT BANK WATER TEMPERATURE



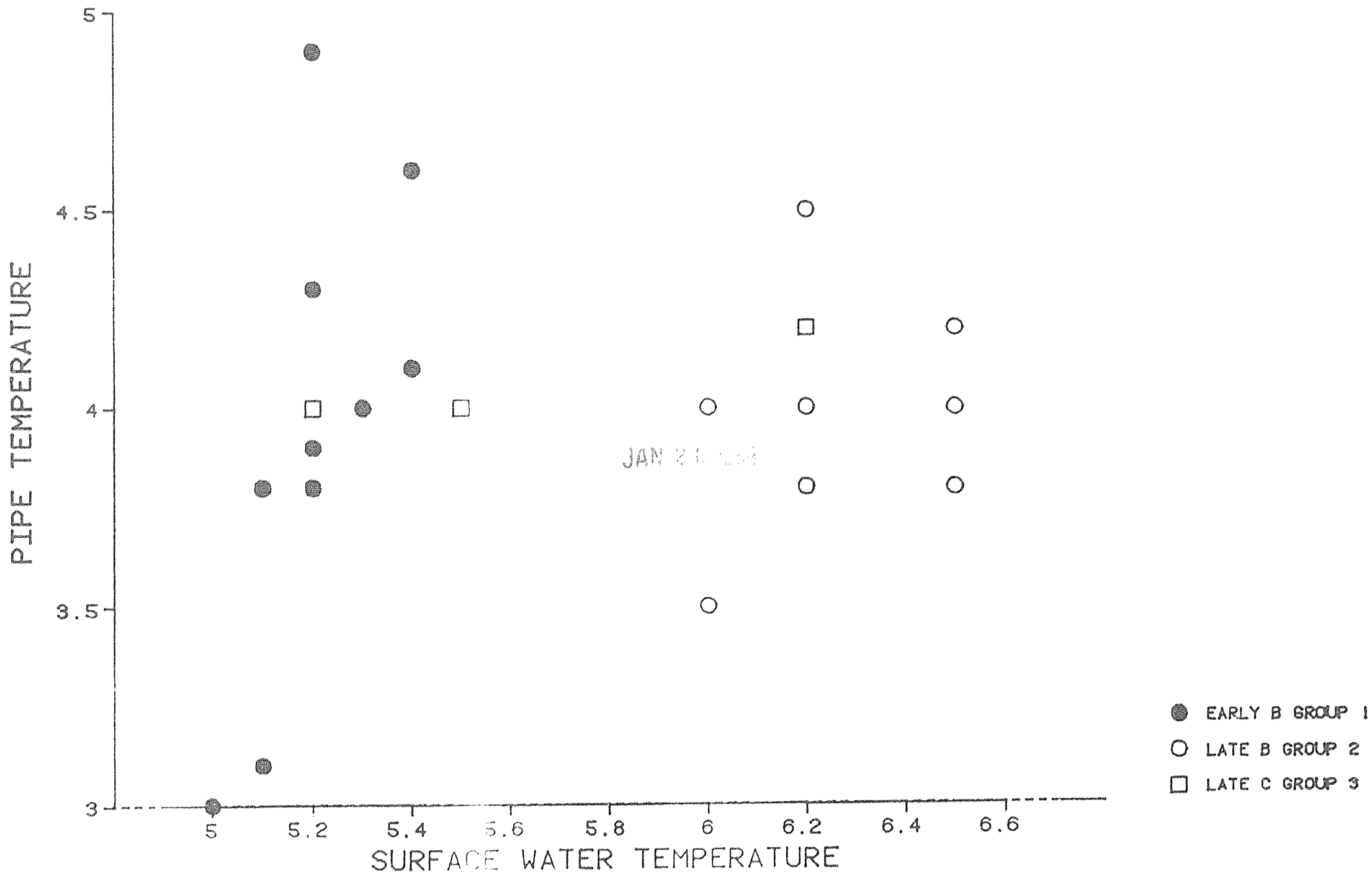
SLOUGH 8A

RIGHT BANK WATER TEMPERATURE



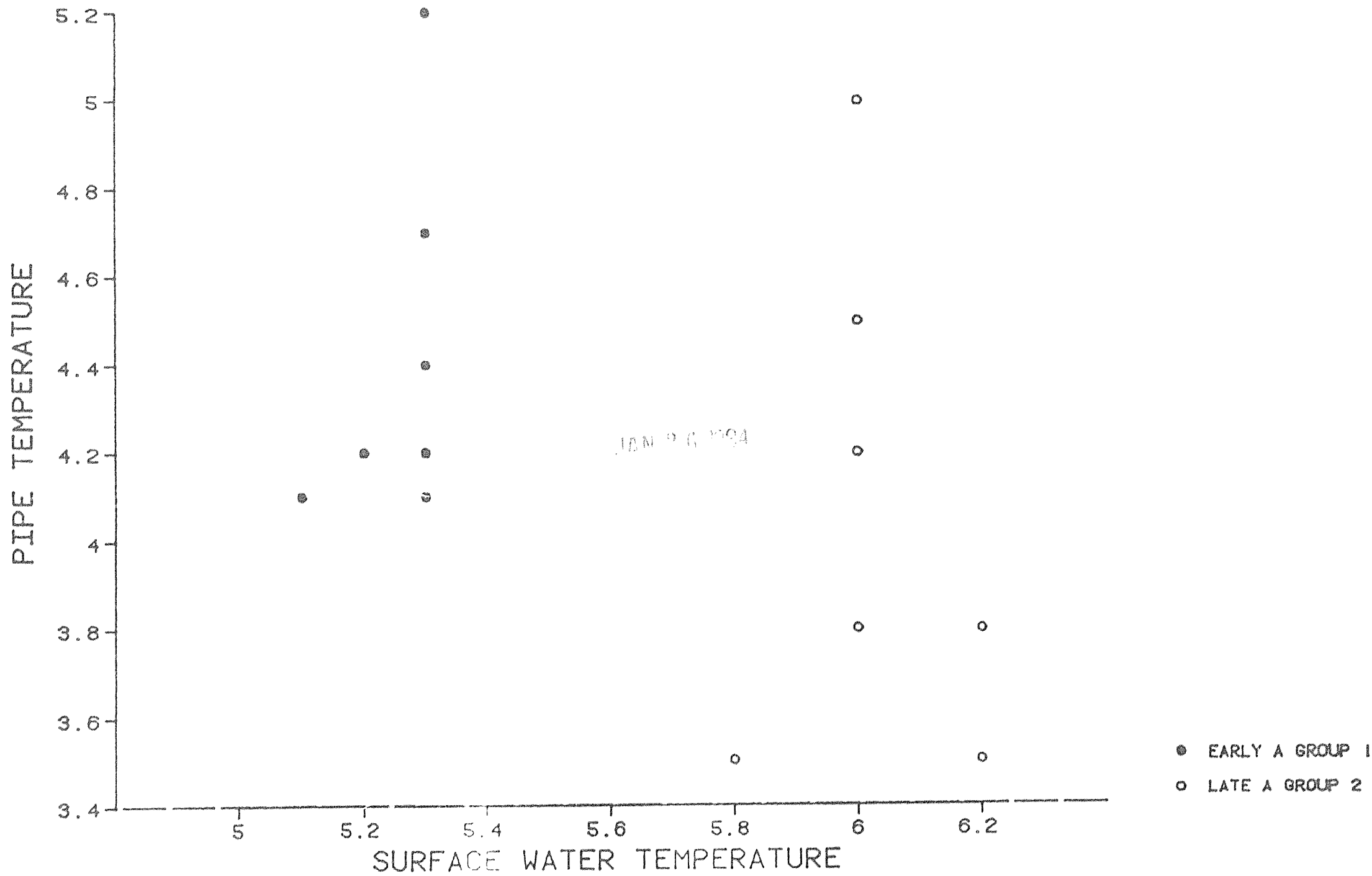
SLOUGH 9

LEFT BANK WATER TEMPERATURE



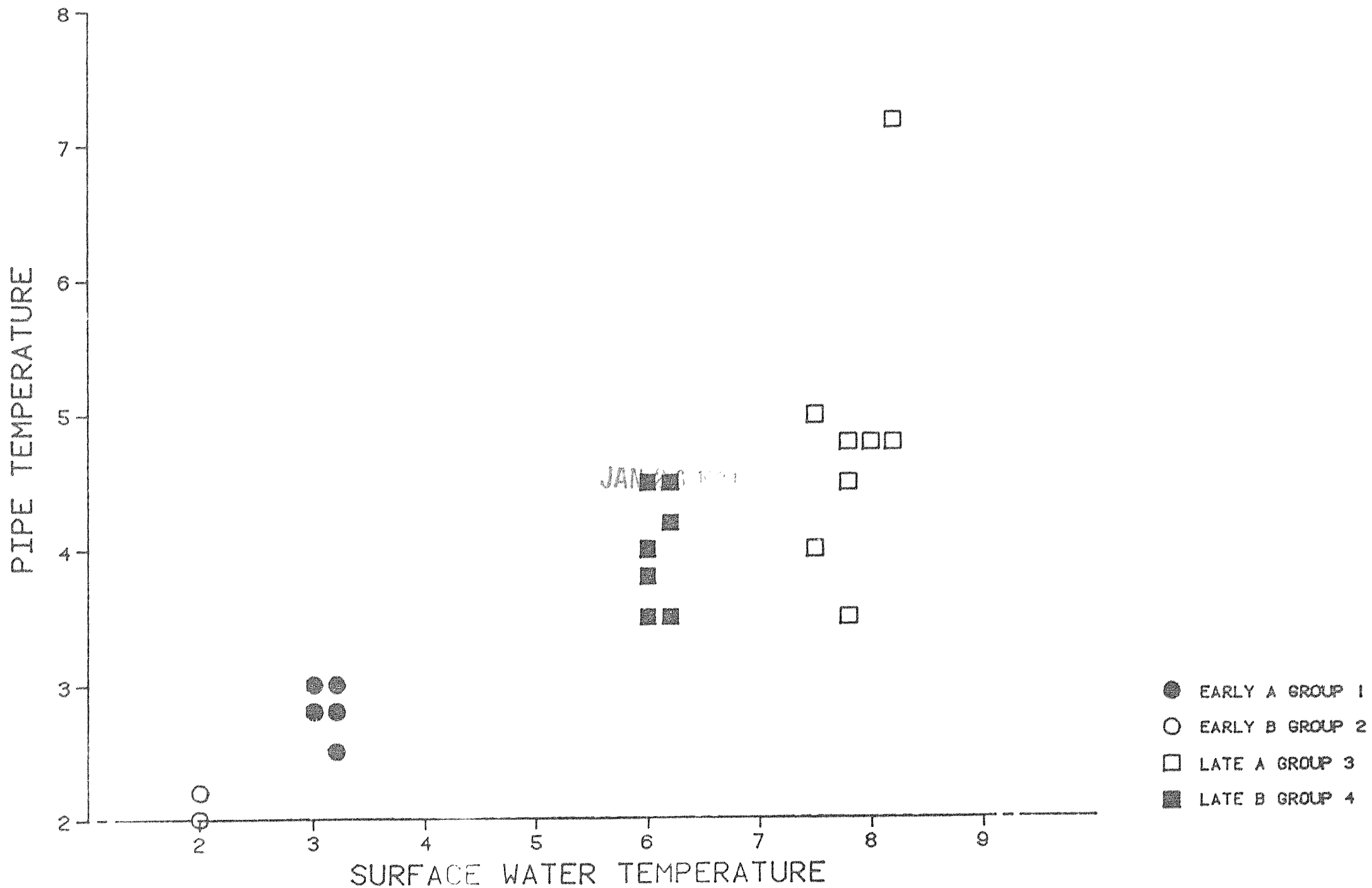
SLOUGH 9

RIGHT BANK WATER TEMPERATURE



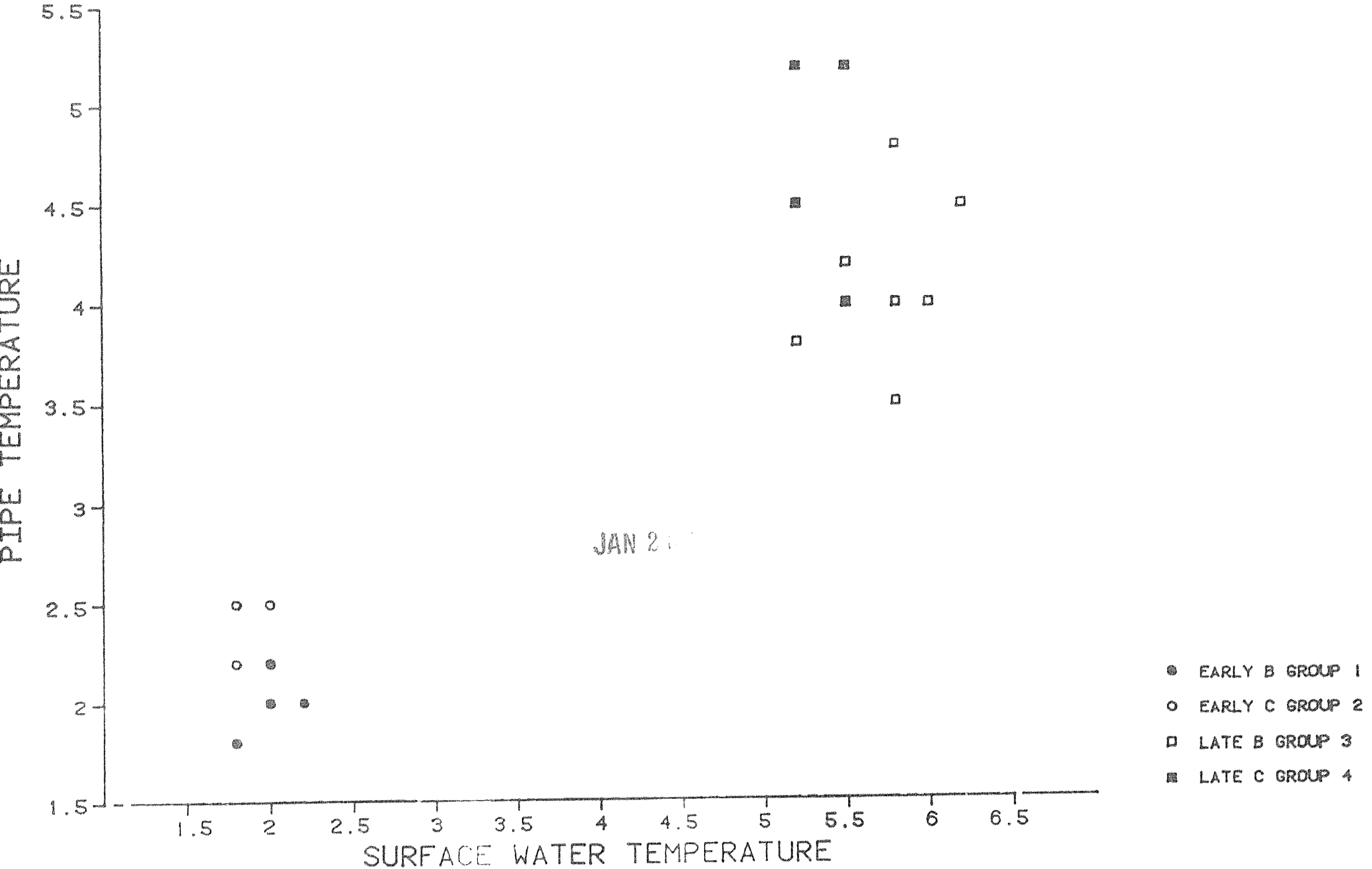
SLOUGH 11

LEFT BANK WATER TEMPERATURE



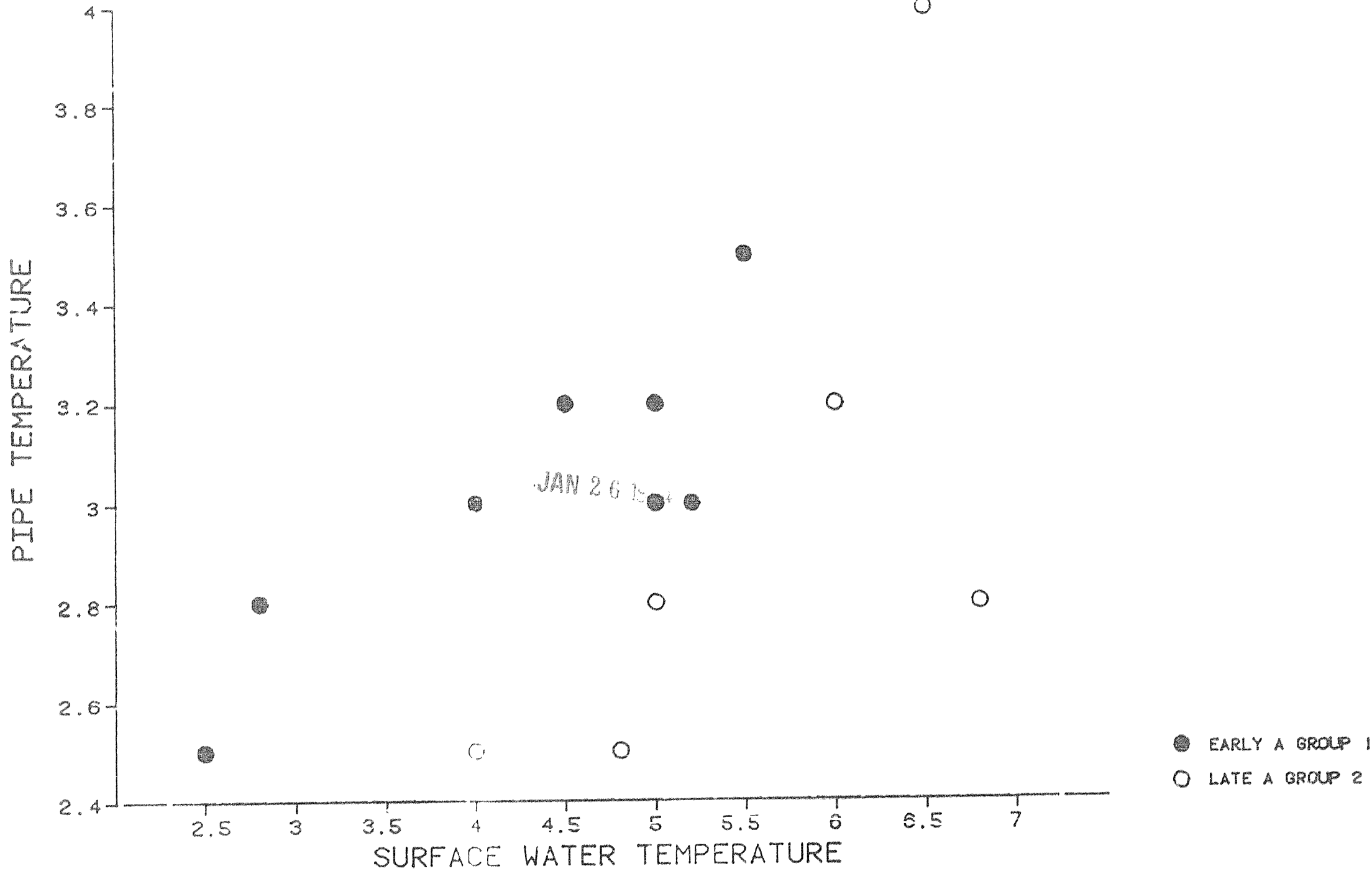
SLOUGH 11

RIGHT BANK WATER TEMPERATURE



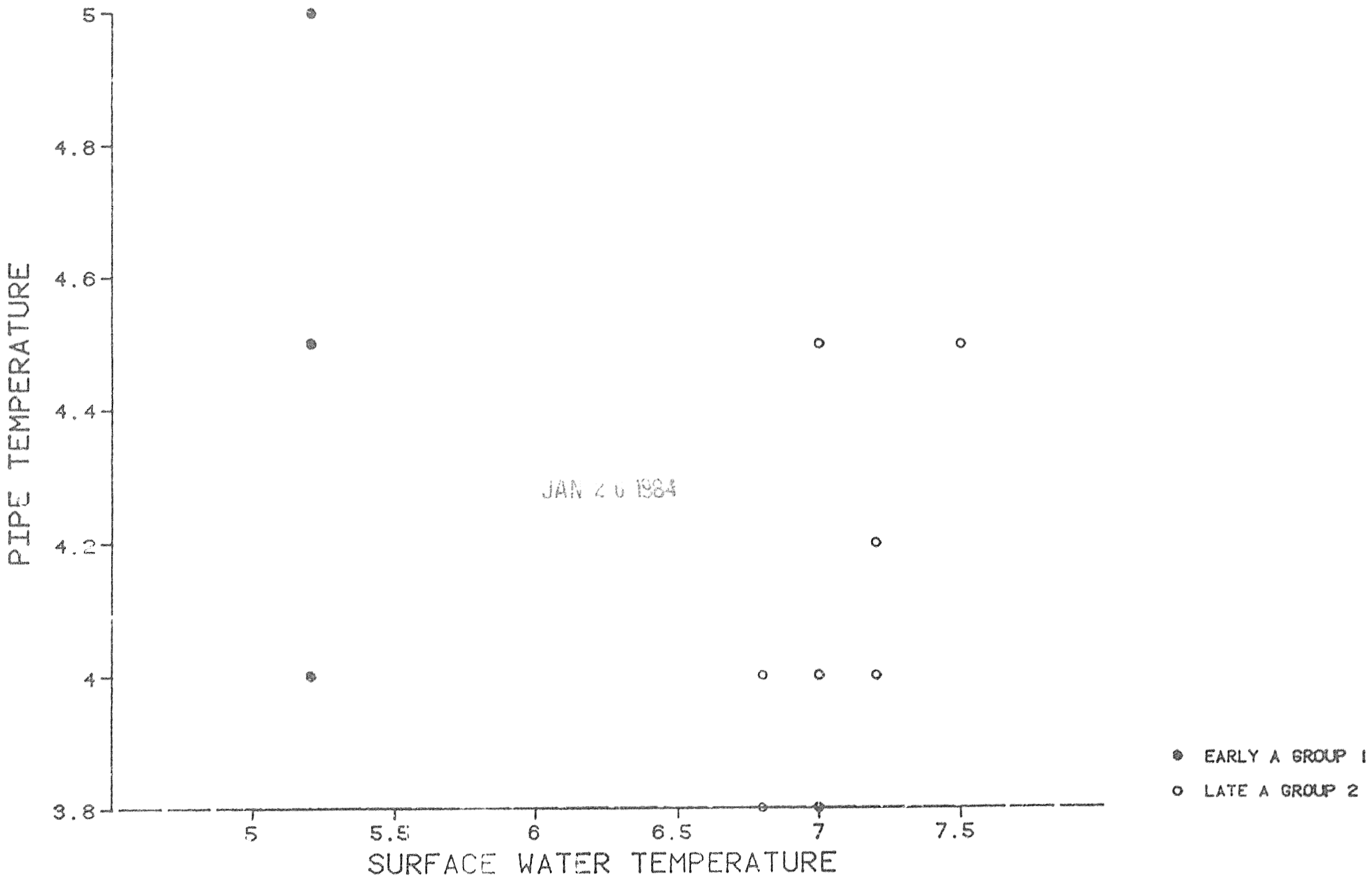
SLOUGH 21

LEFT BANK WATER TEMPERATURE



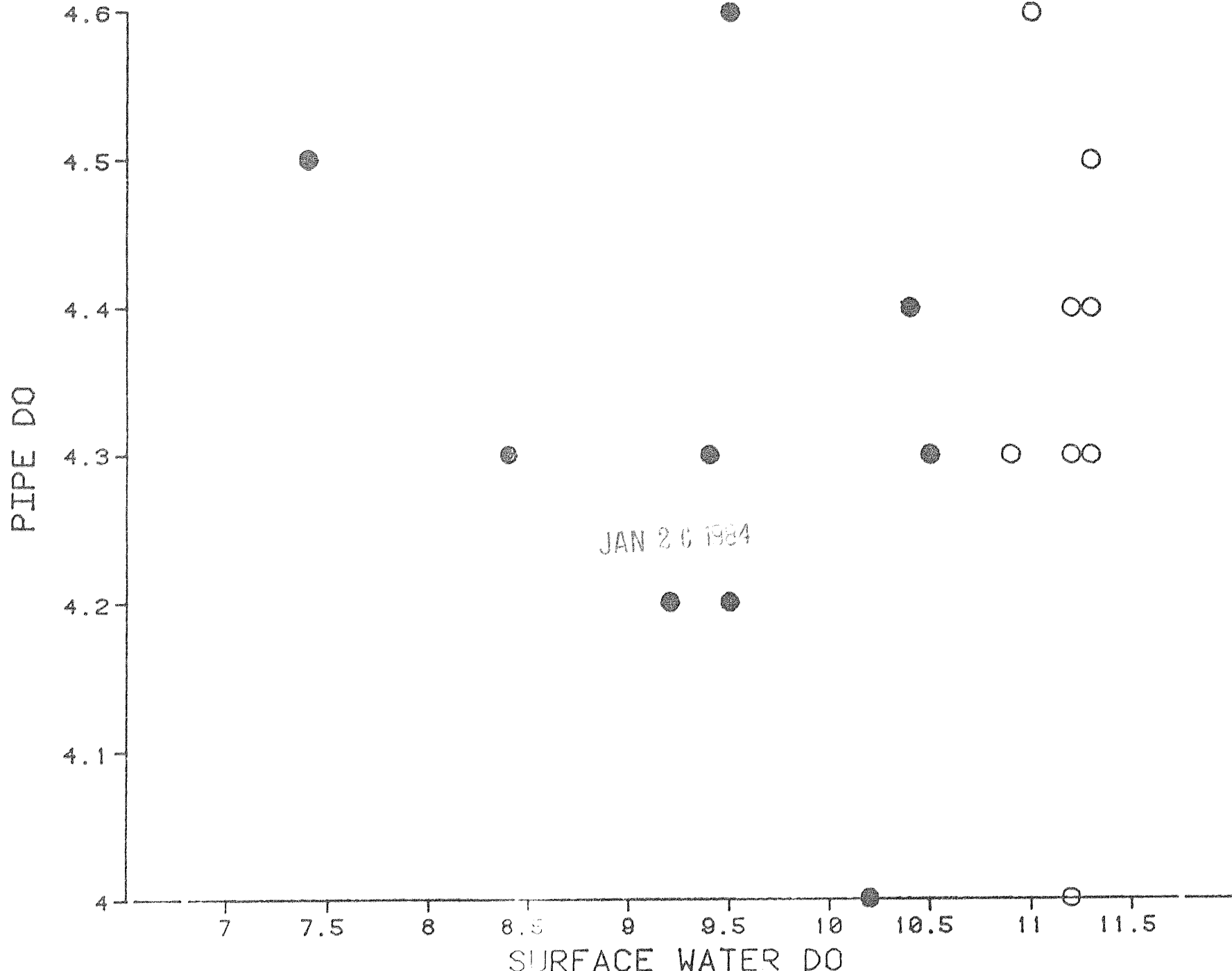
SLOUGH 21

RIGHT BANK WATER TEMPERATURE



SLOUGH 8A

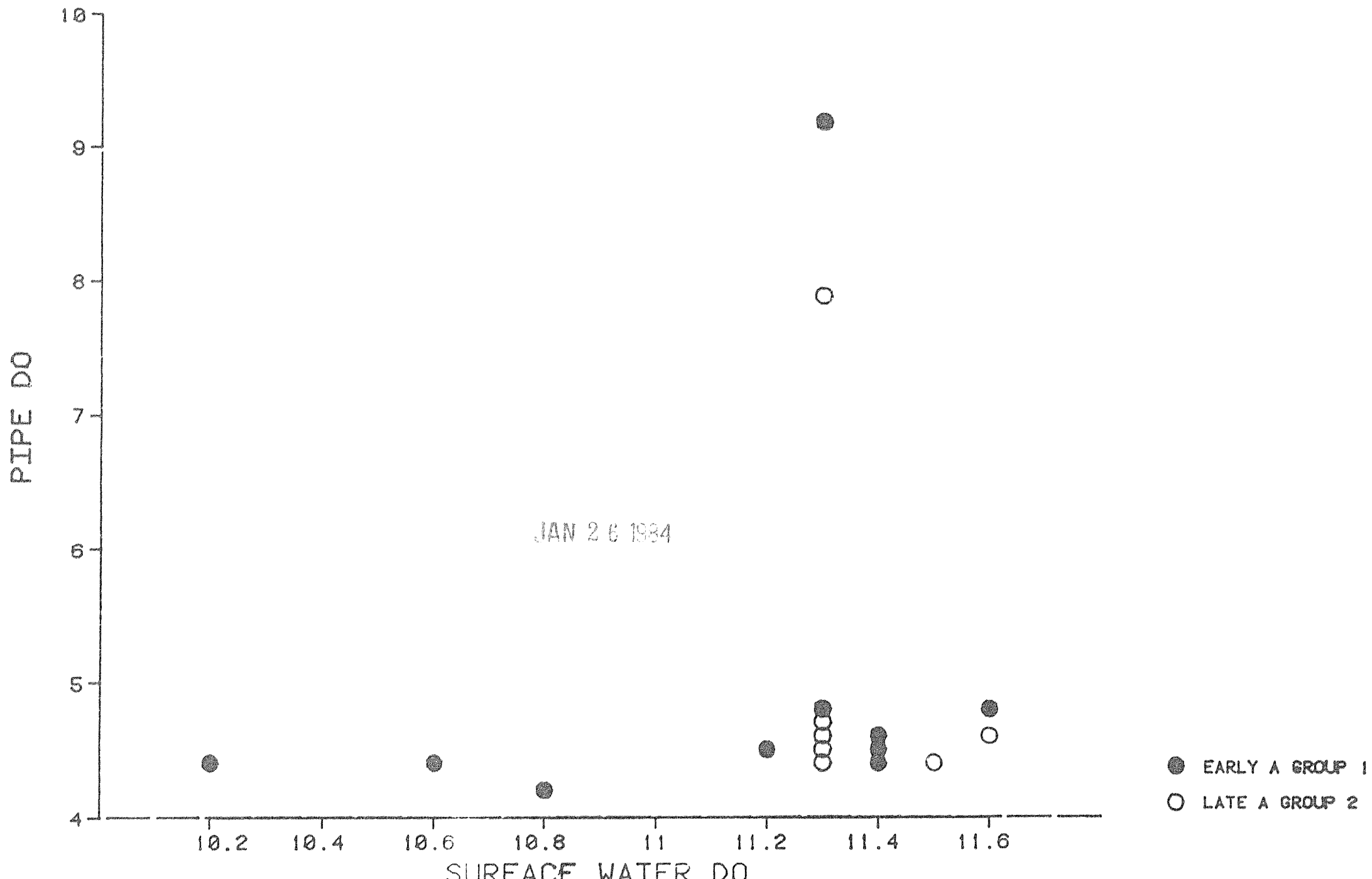
LEFT BANK D.O.



● EARLY A GROUP 1
○ LATE A GROUP 2

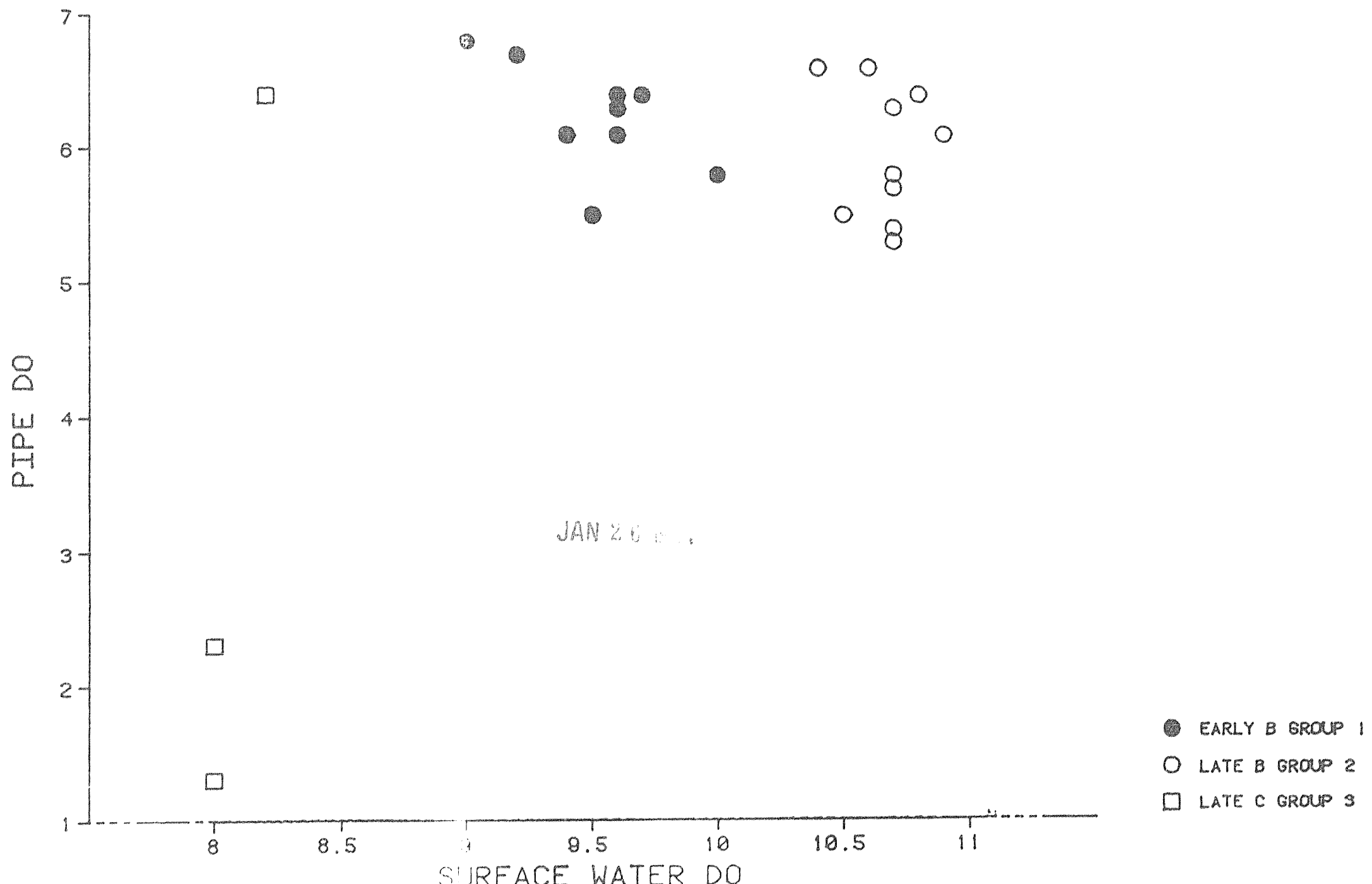
SLOUGH 8A

RIGHT BANK D.O.



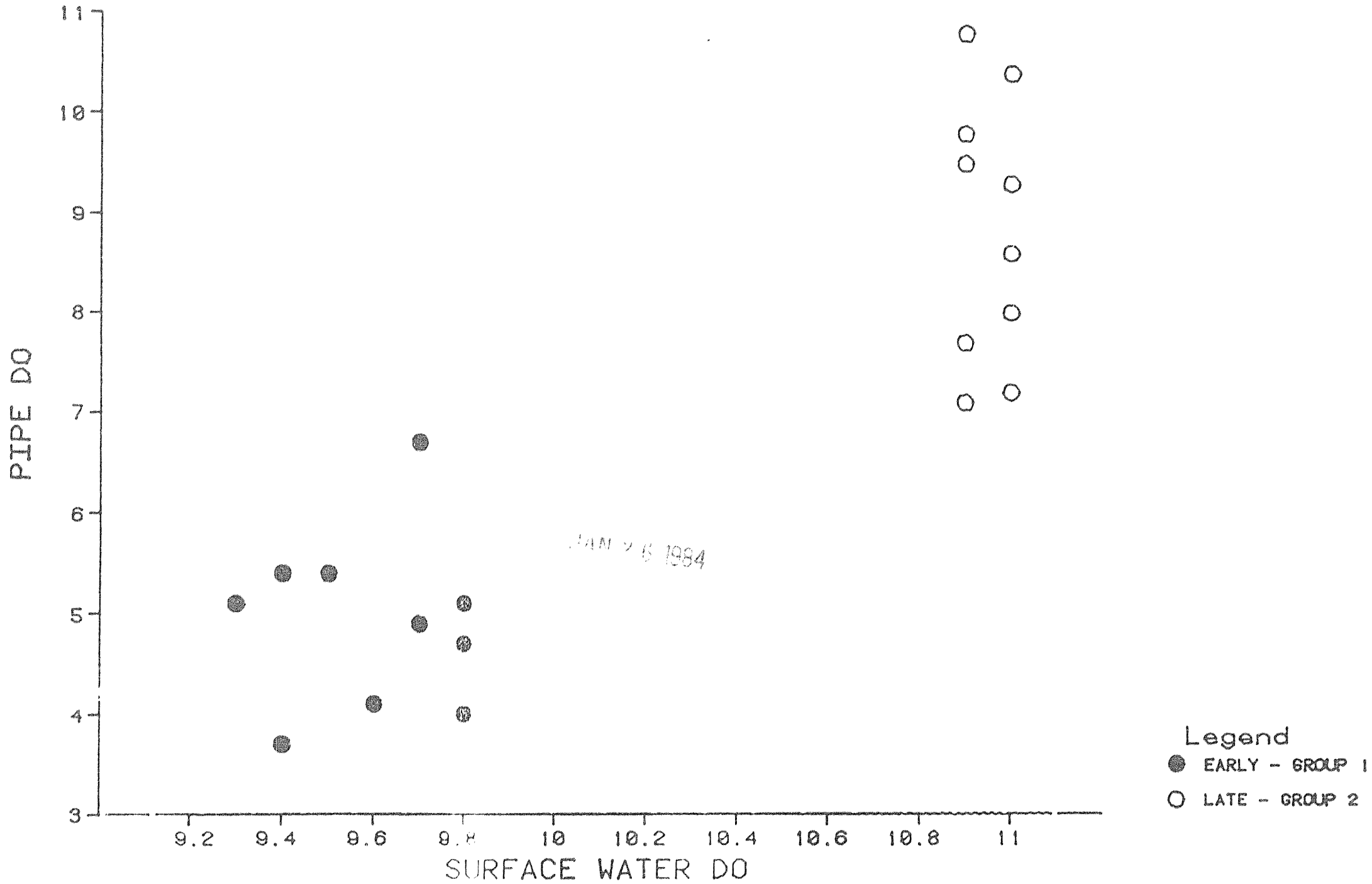
SLOUGH 9

LEFT BANK D.O.

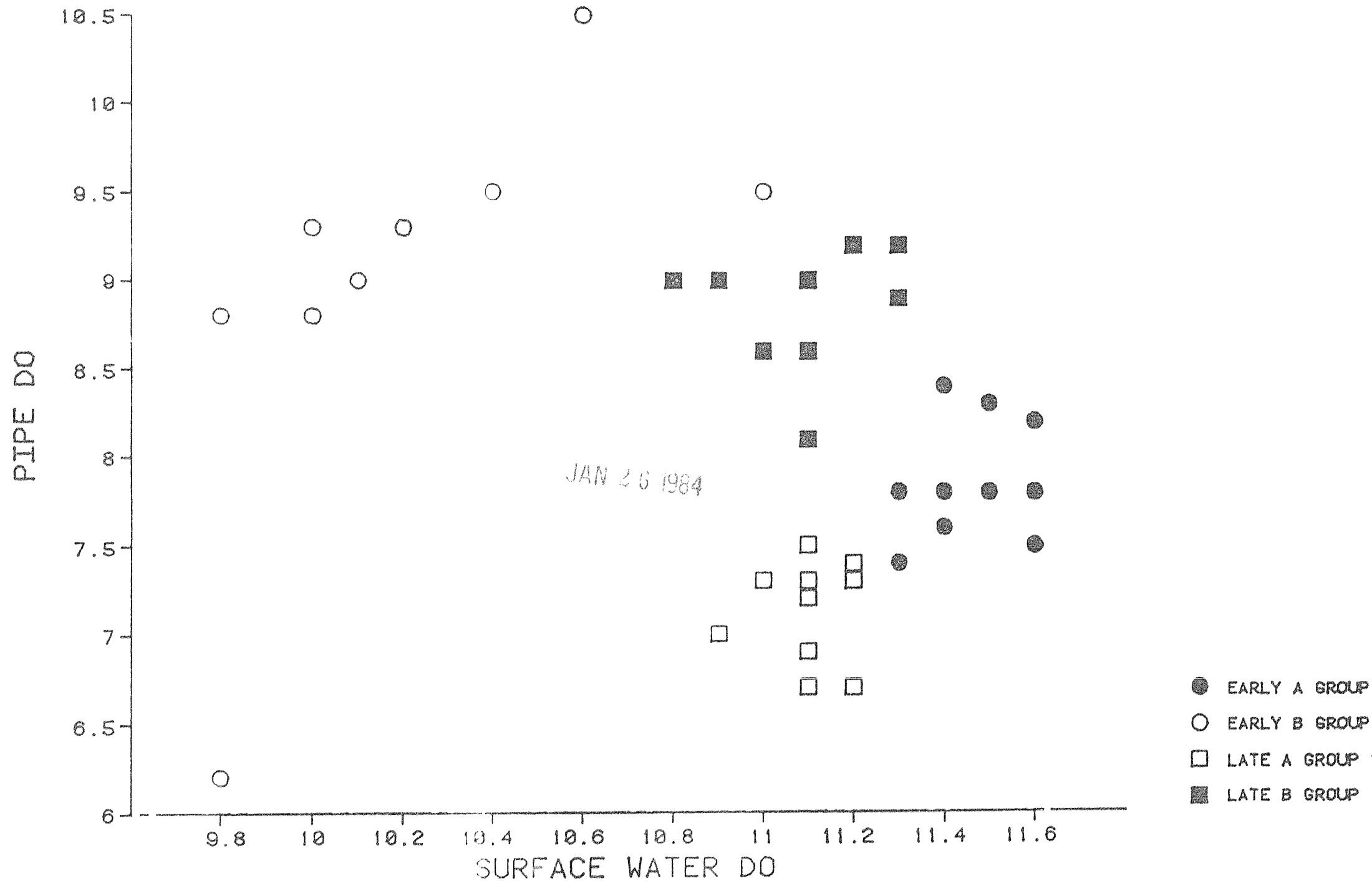


SLOUGH 9

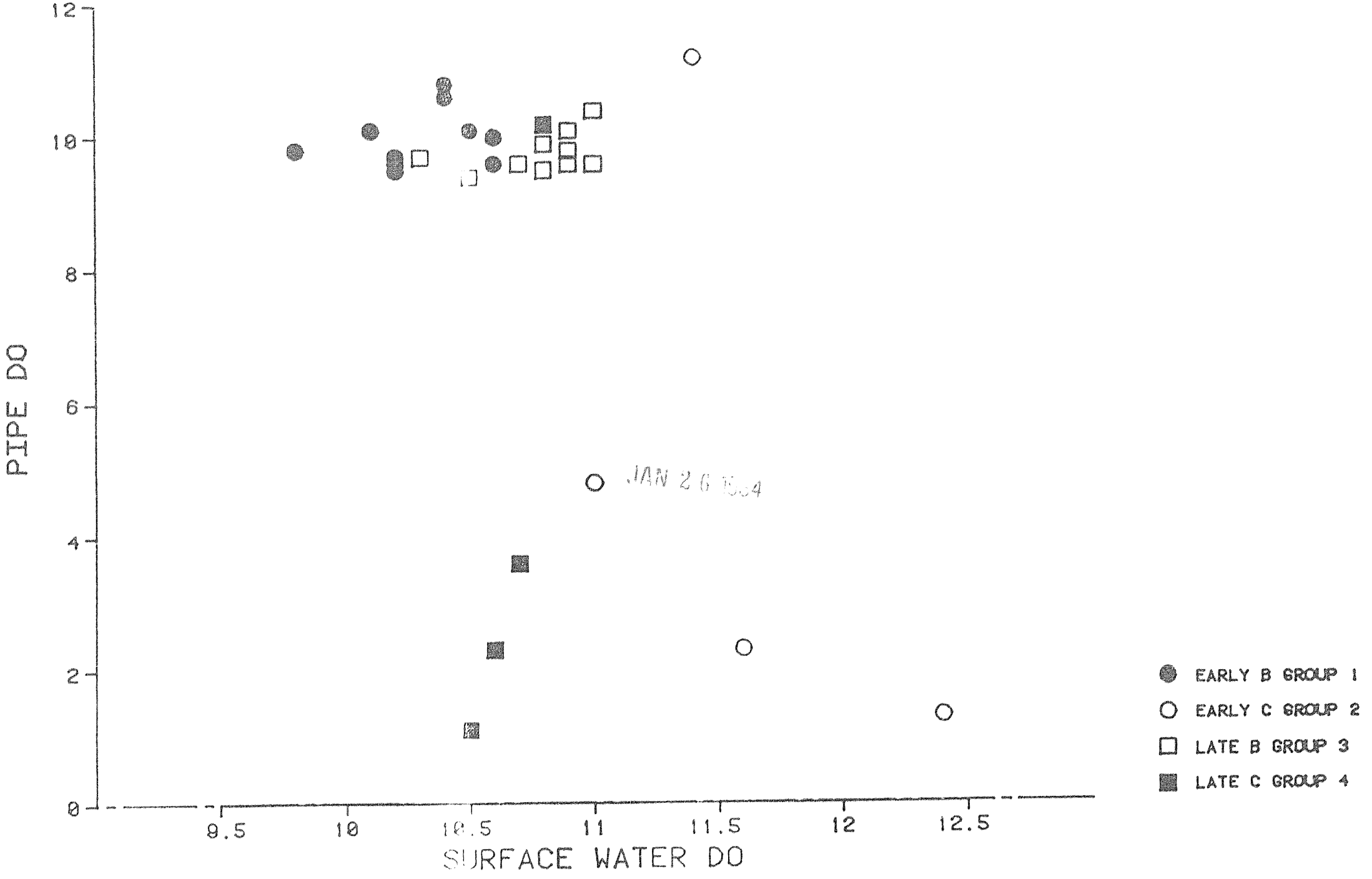
RIGHT BANK D.O



SLOUGH 11 LEFT BANK D.O.

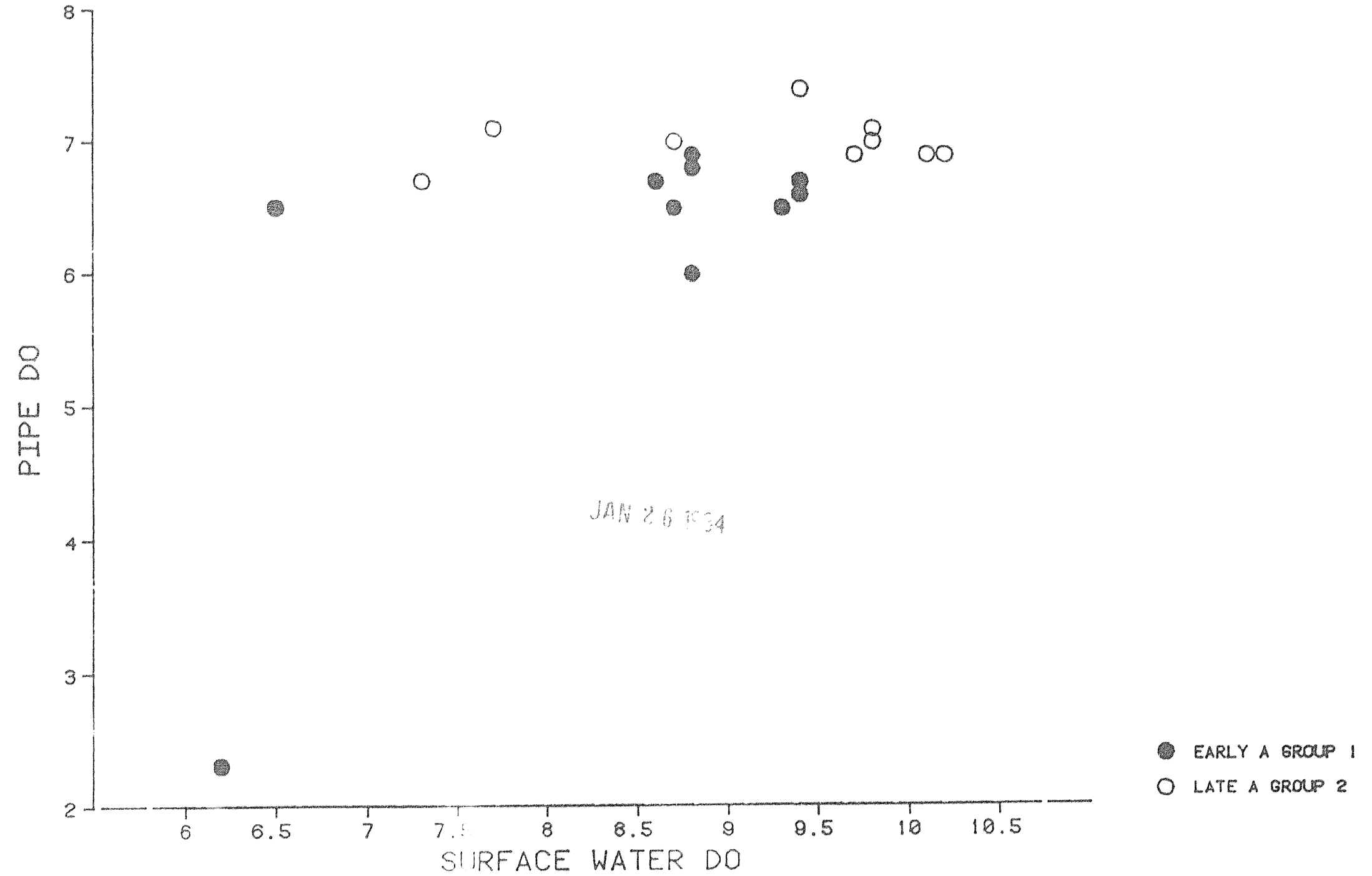


SLOUGH 11 RIGHT BANK D.O.



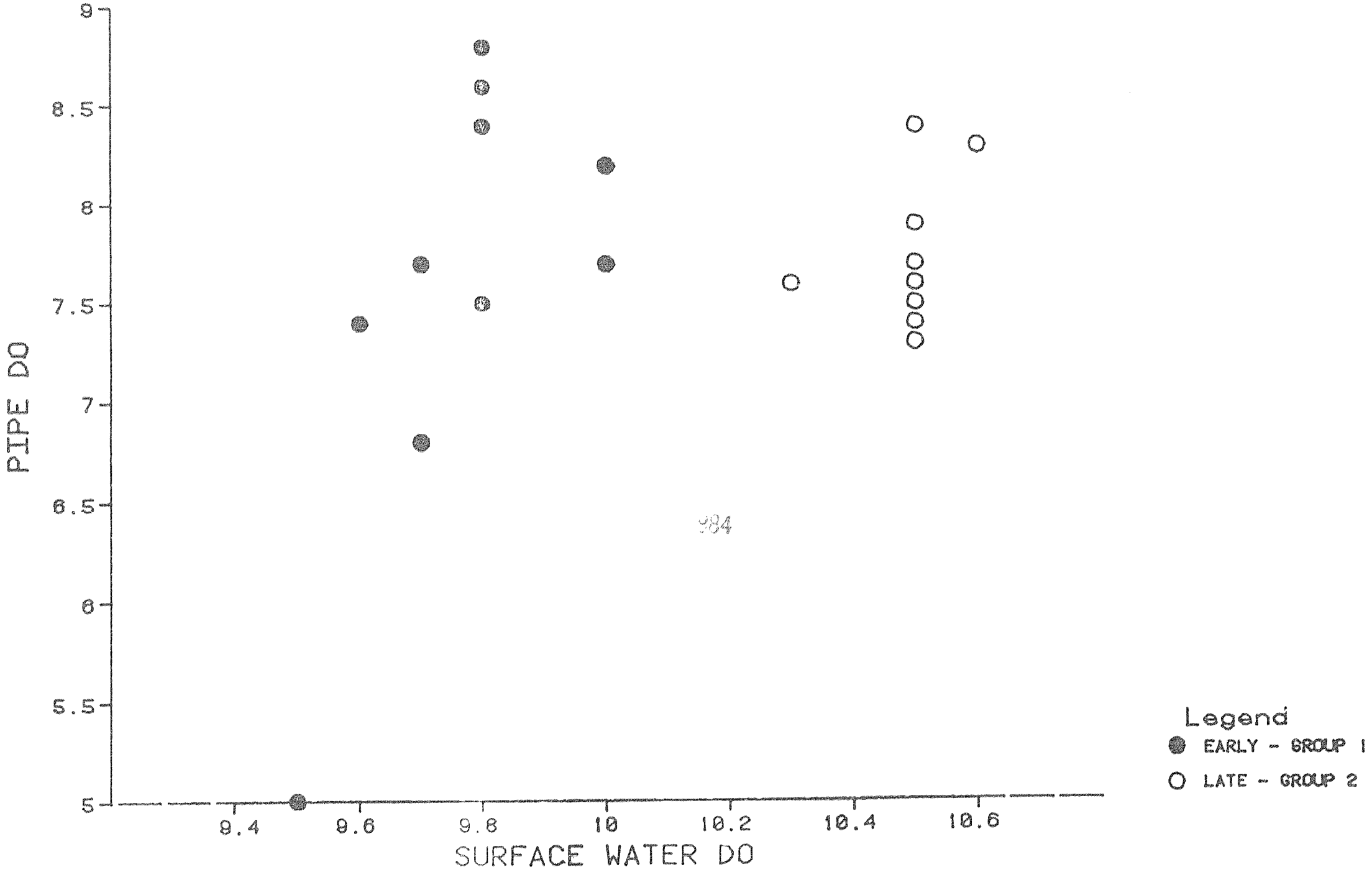
SLOUGH 21

LEFT BANK D.O.



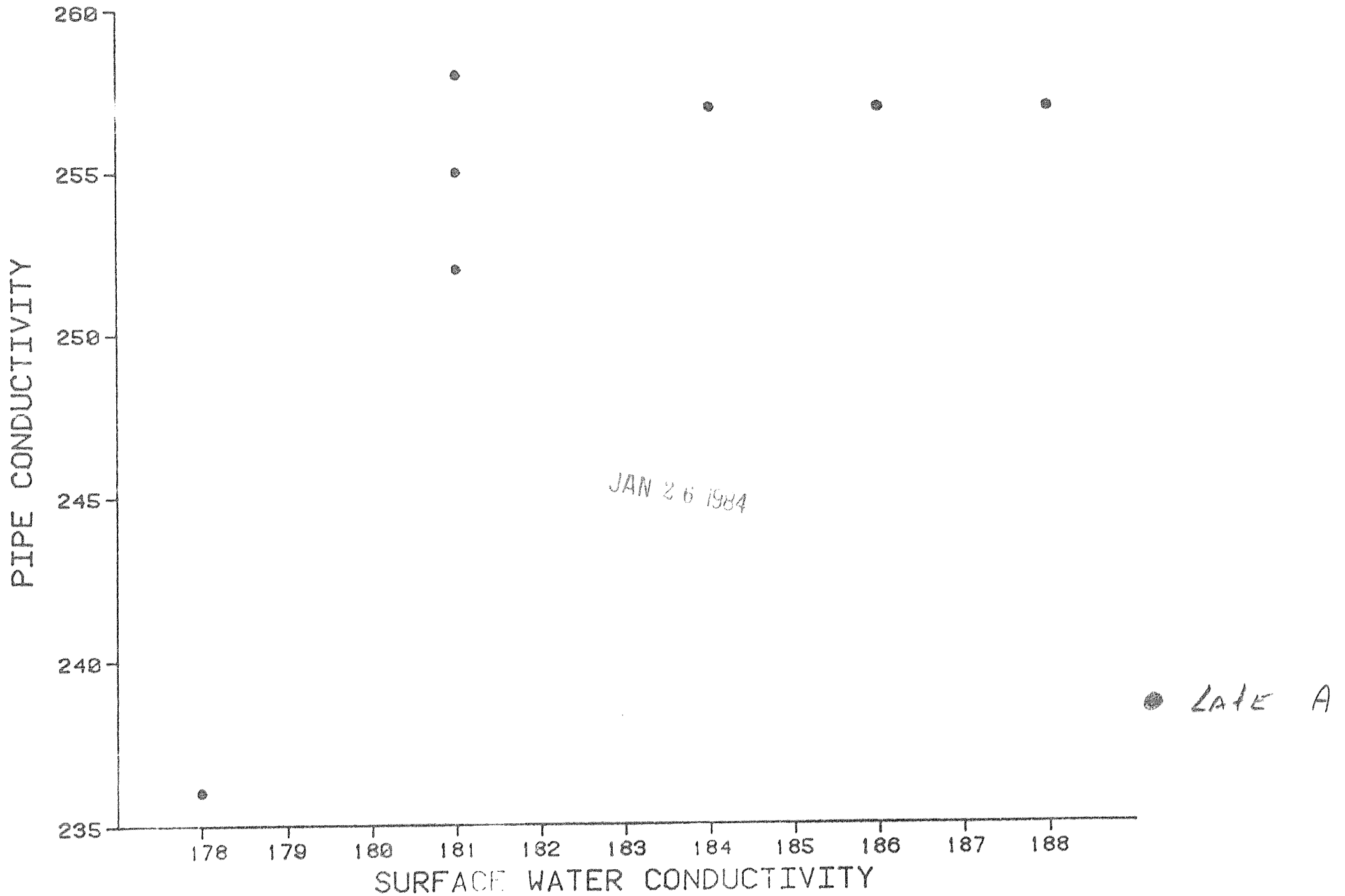
SLOUGH 21

RIGHT BANK D.O



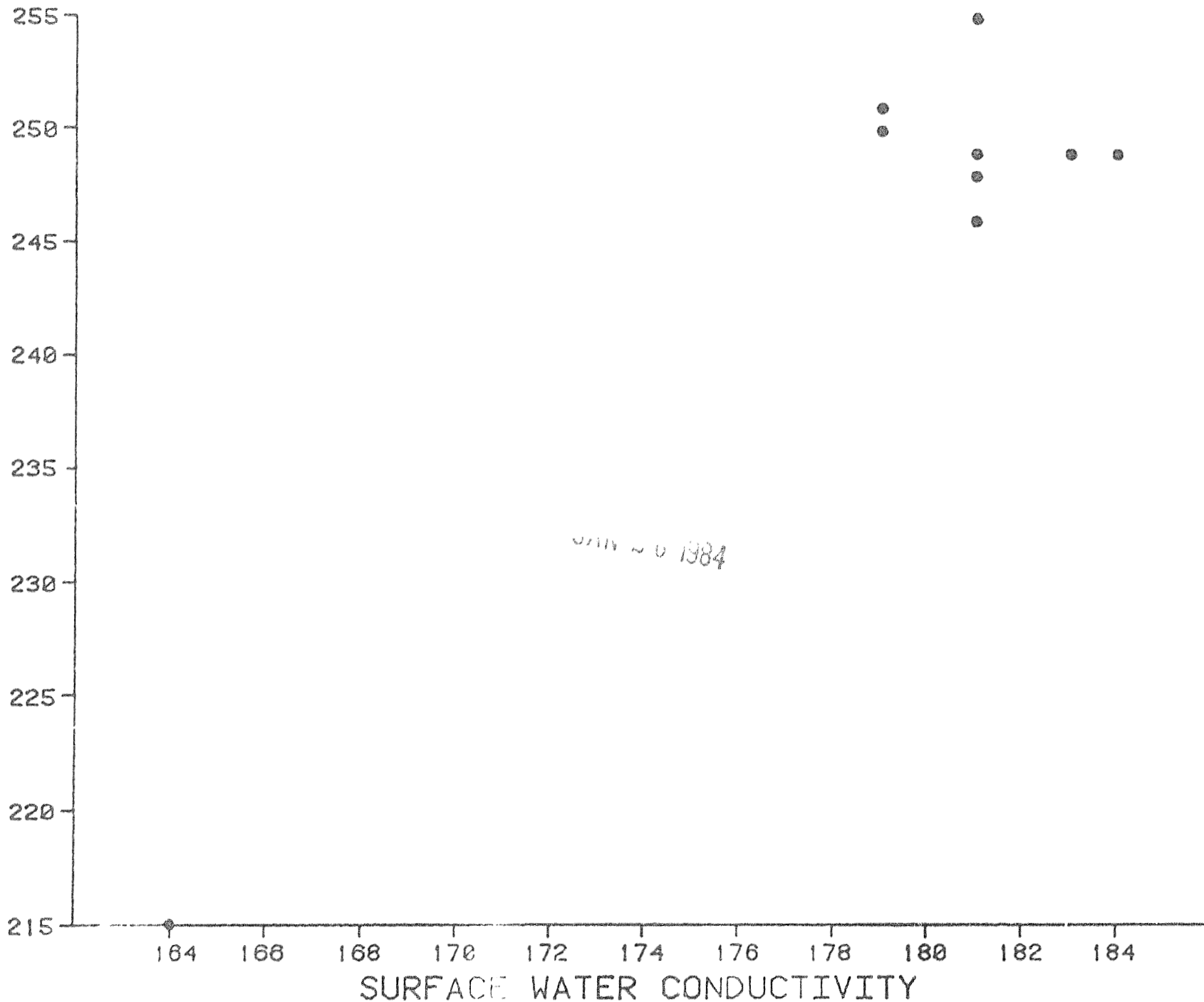
SLOUGH 8A

LEFT BANK ADJ. CONDUCTIVITY



SLOUGH 8A

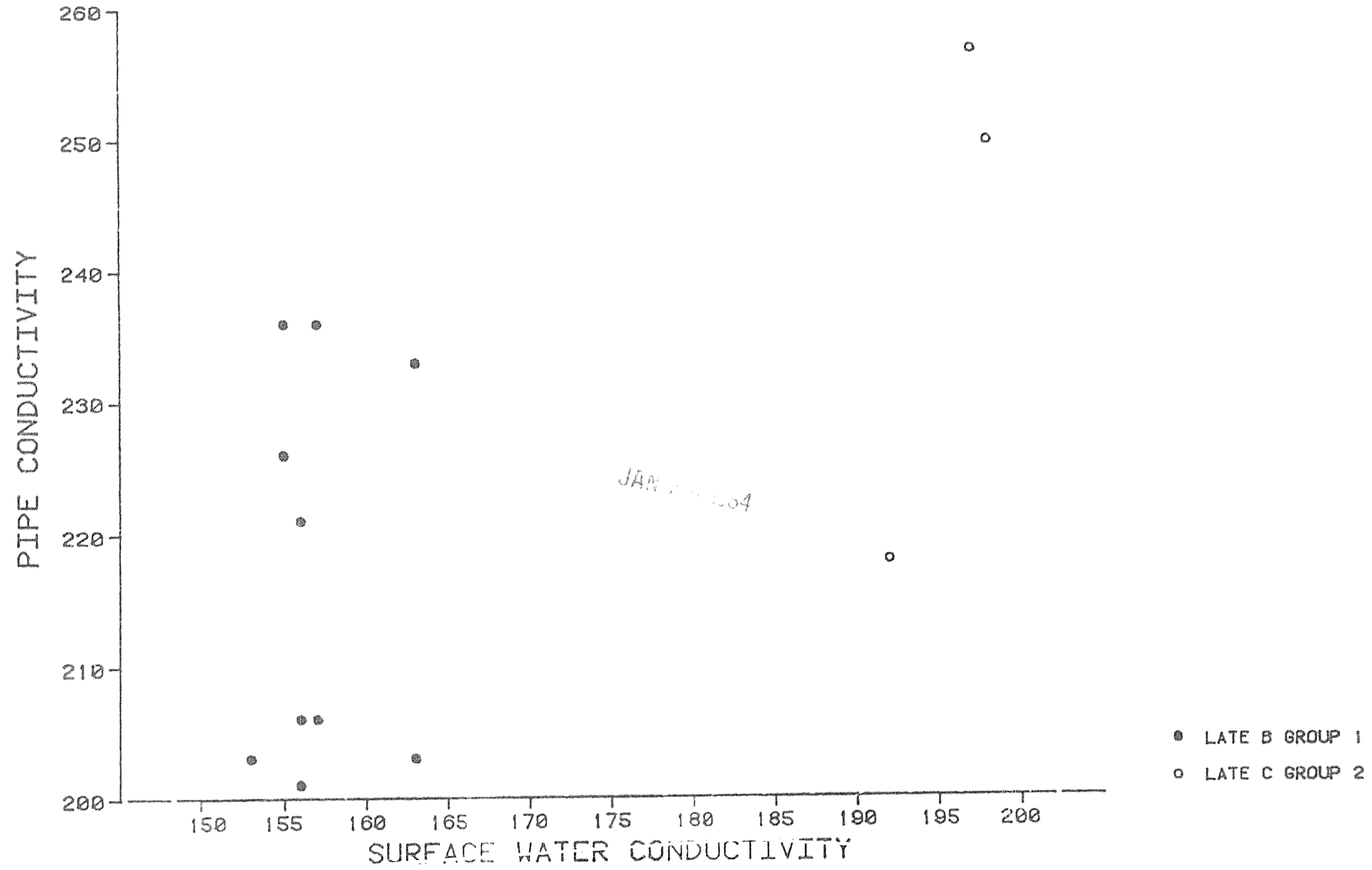
RIGHT BANK CONDUCTIVITY



● LATE A GROW 1

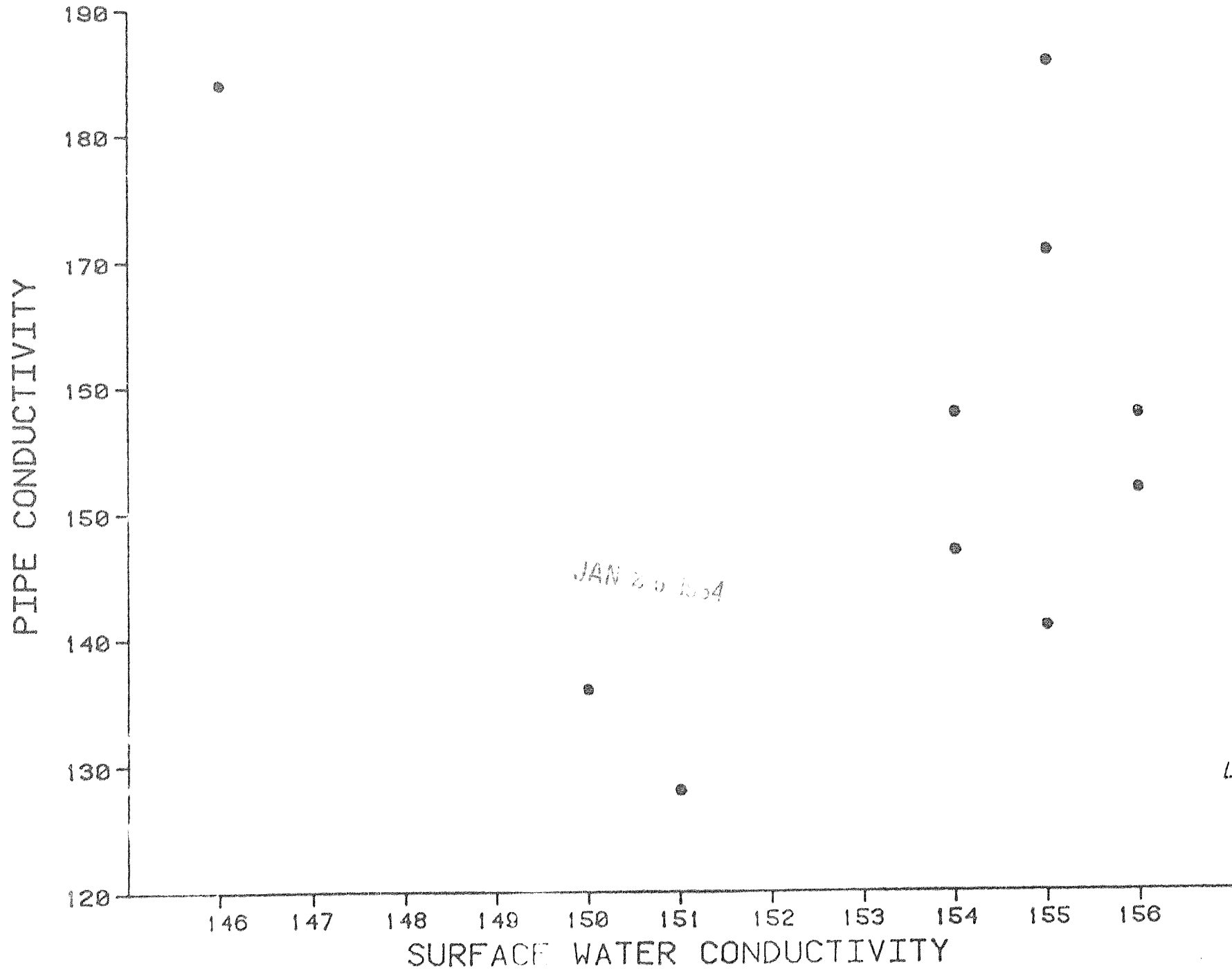
SLOUGH 9

LEFT BANK ADJ. CONDUCTIVITY



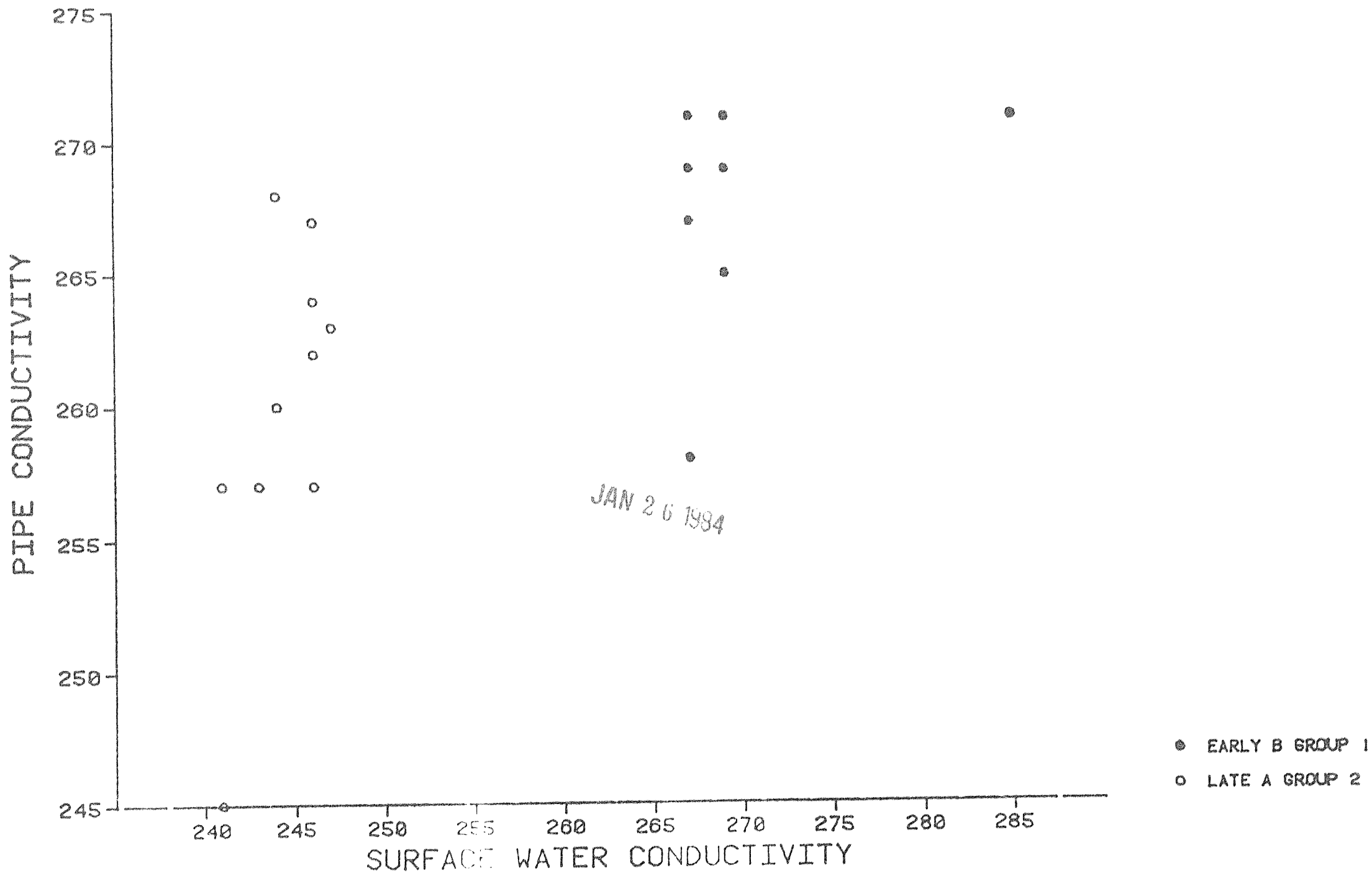
SLOUGH 9

RIGHT BANK CONDUCTIVITY



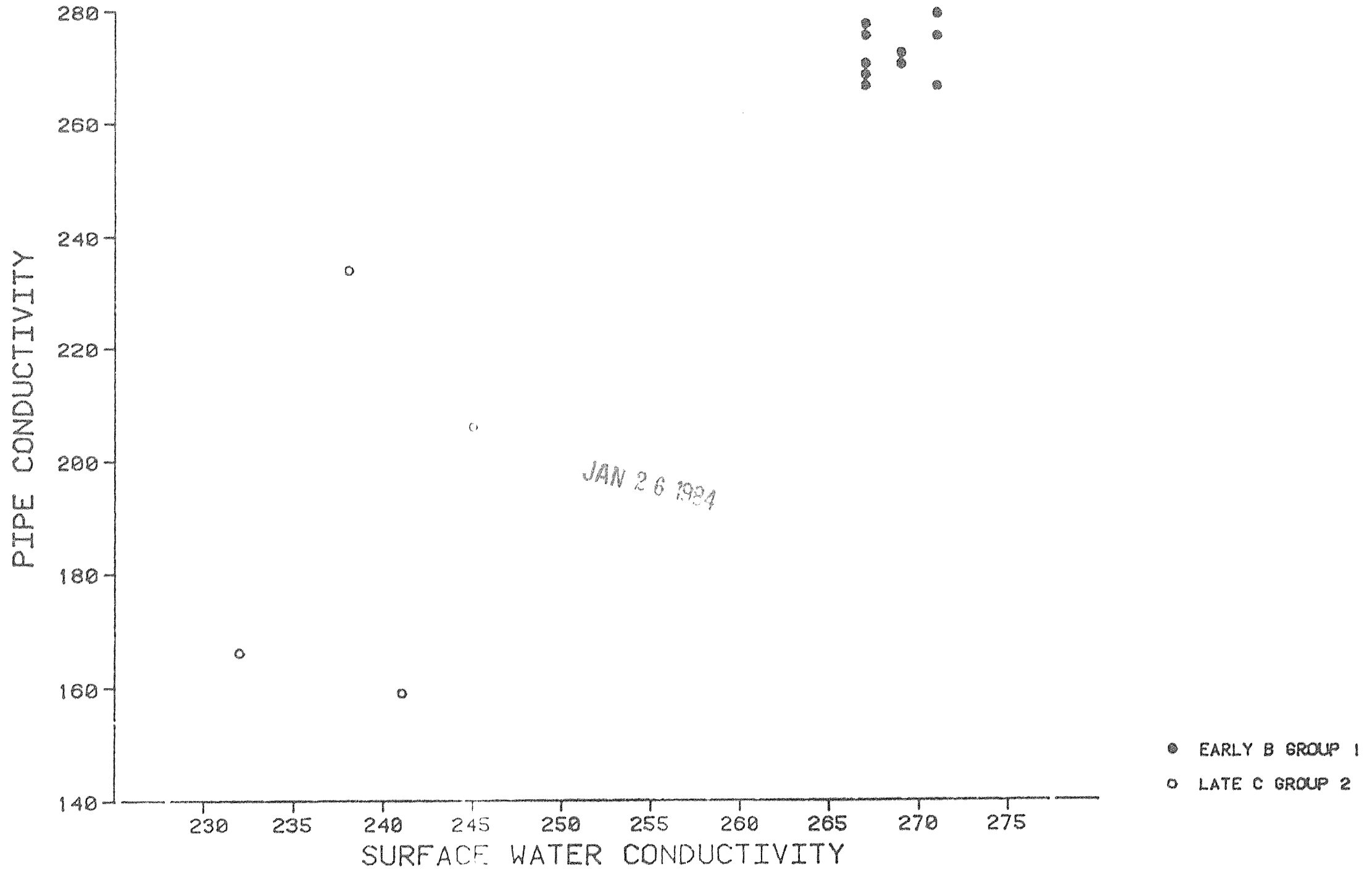
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LEFT BANK ADJ. CONDUCTIVITY



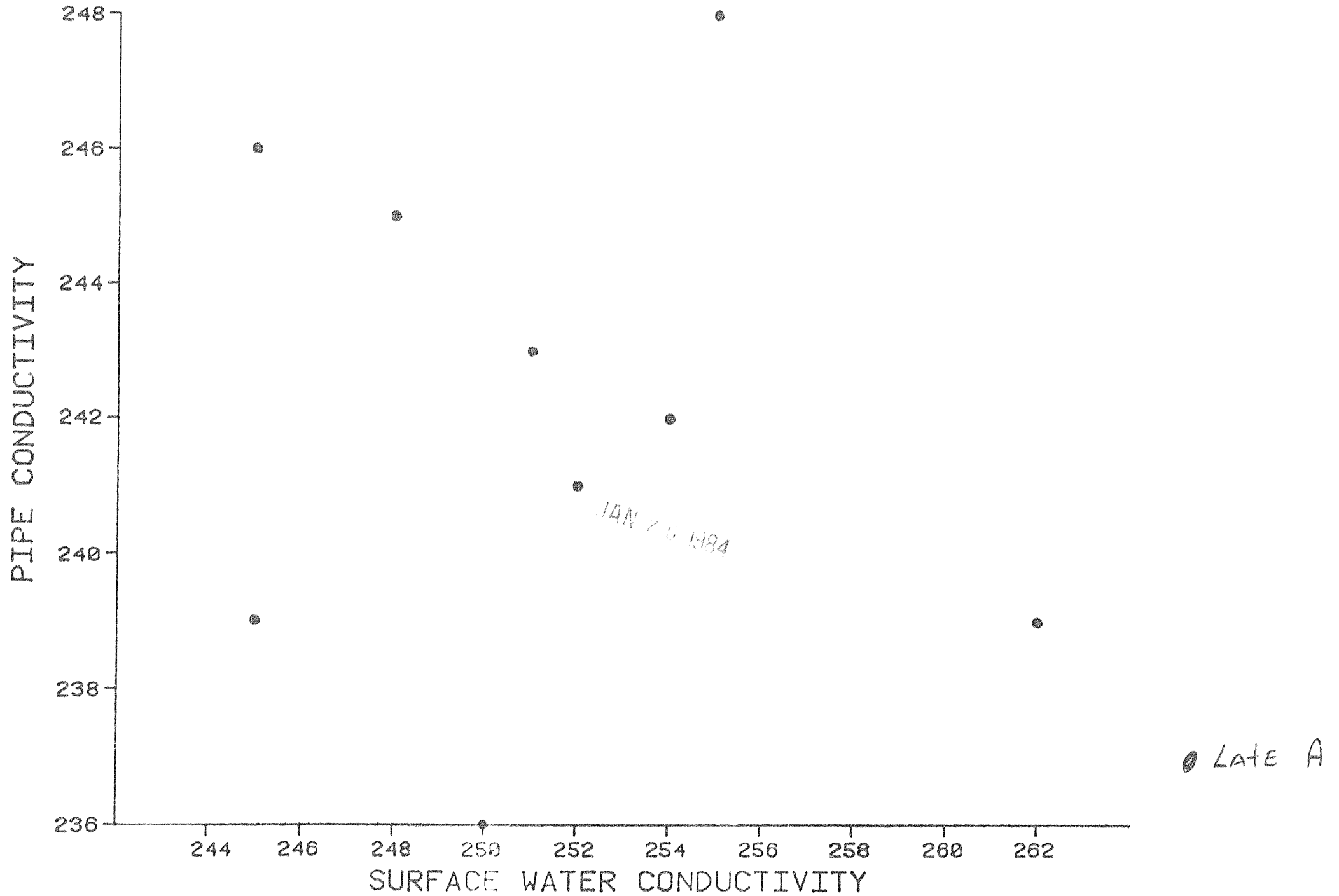
SLOUGH 11

RIGHT BANK CONDUCTIVITY



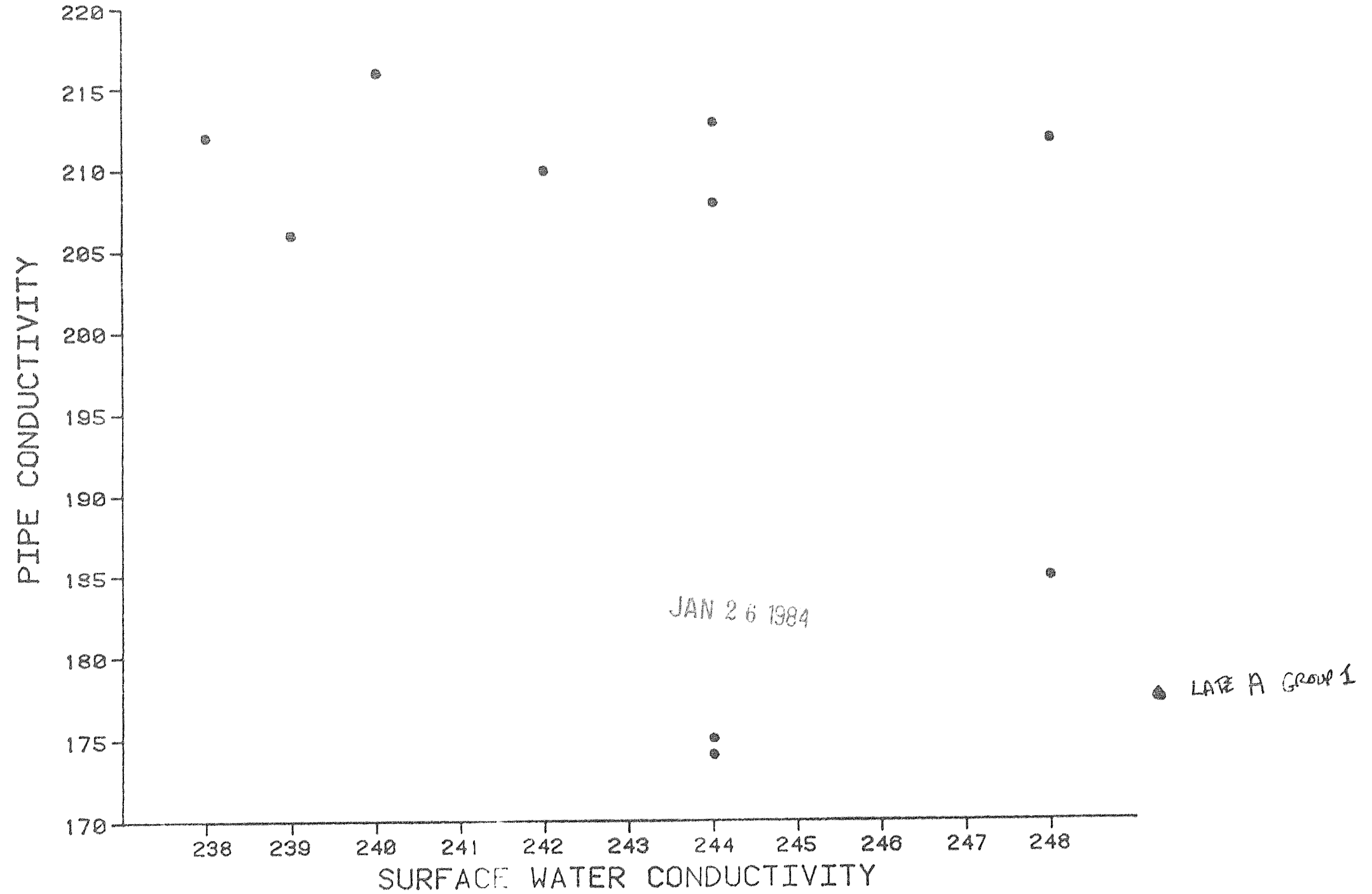
SLOUGH 21

LEFT BANK ADJ. CONDUCTIVITY

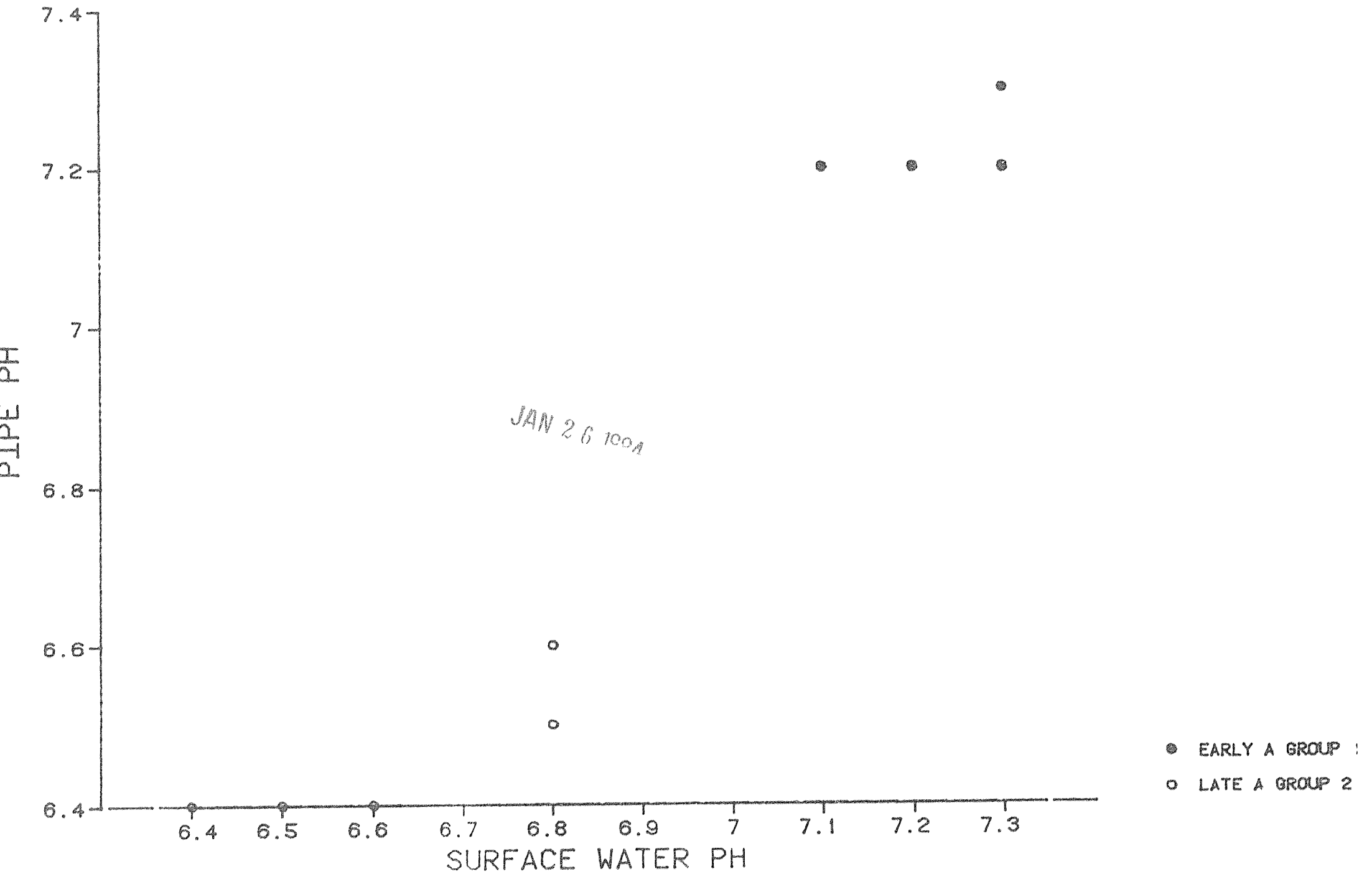


SLOUGH 21

RIGHT BANK CONDUCTIVITY

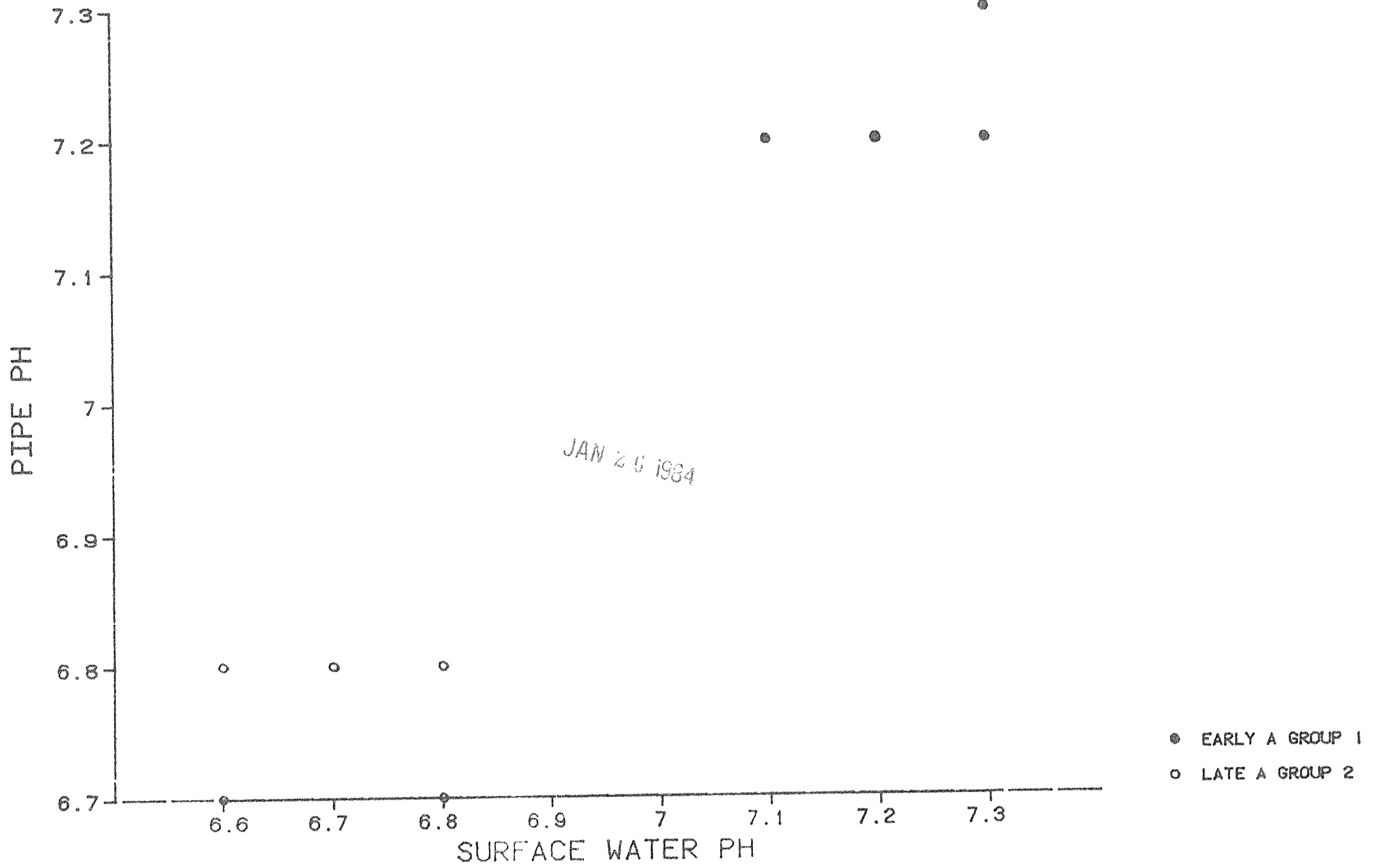


SLOUGH 8A LEFT BANK PH



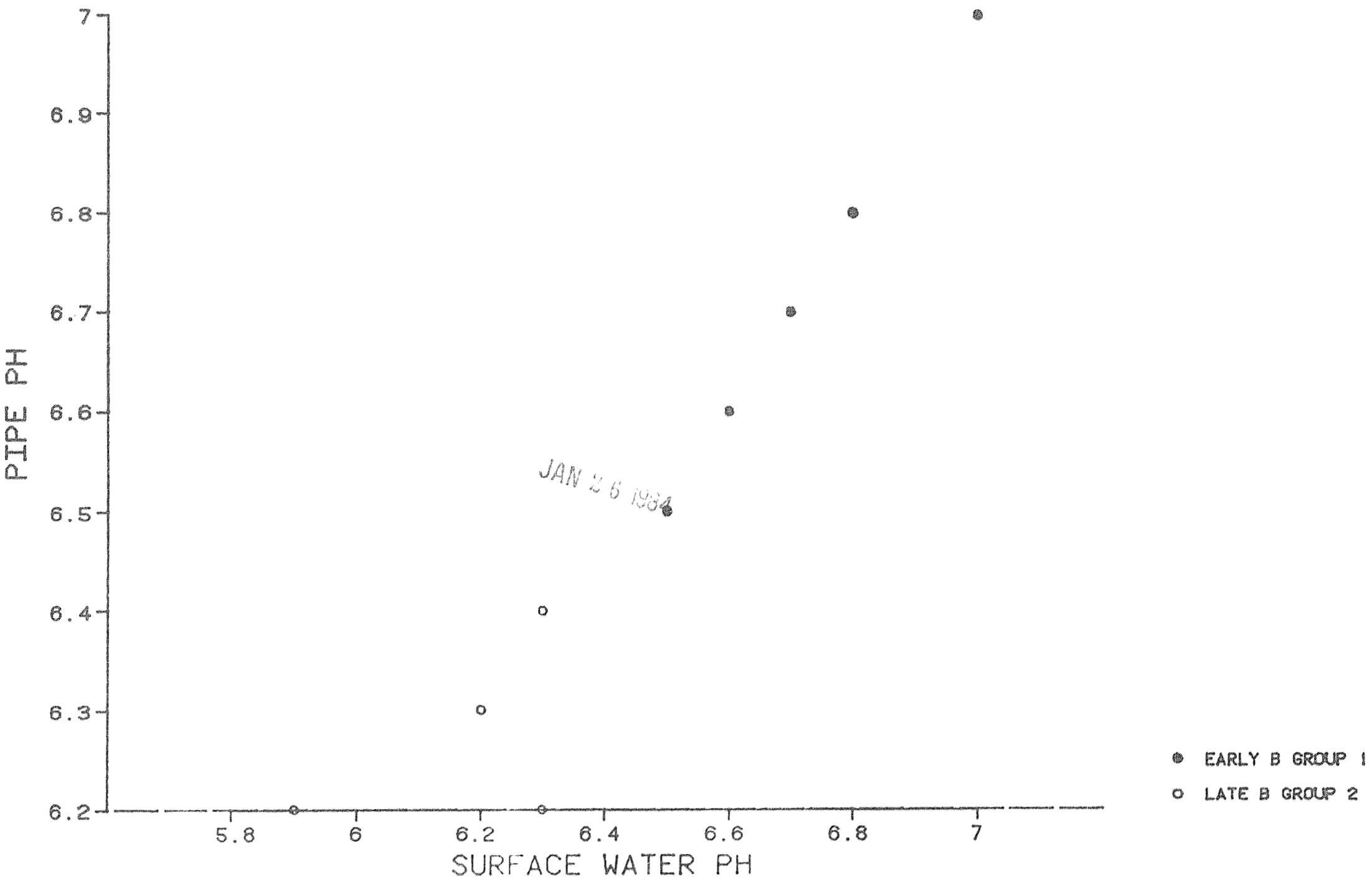
SLOUGH 8A

RIGHT BANK PH



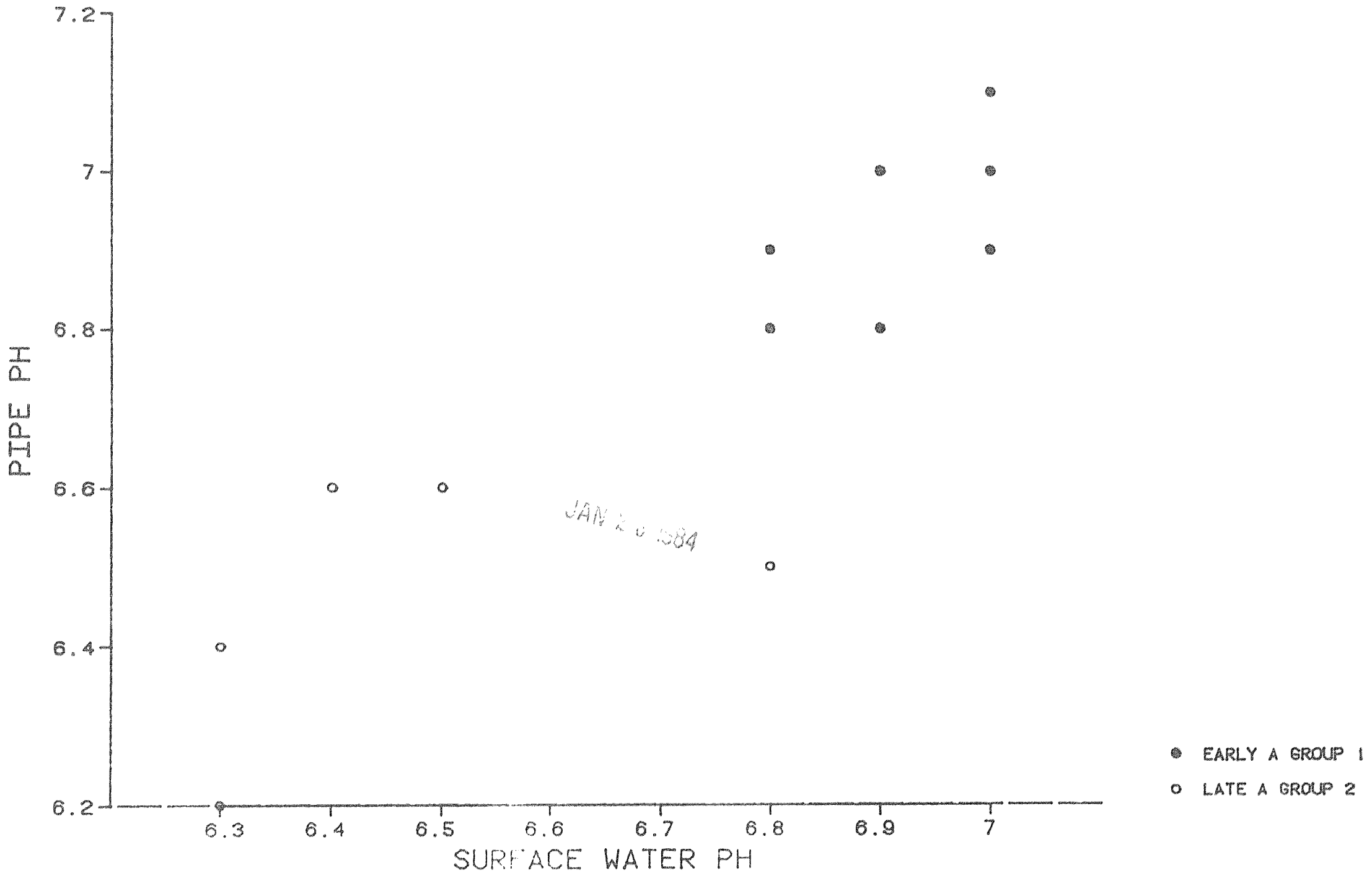
SLOUGH 9

LEFT BANK PH

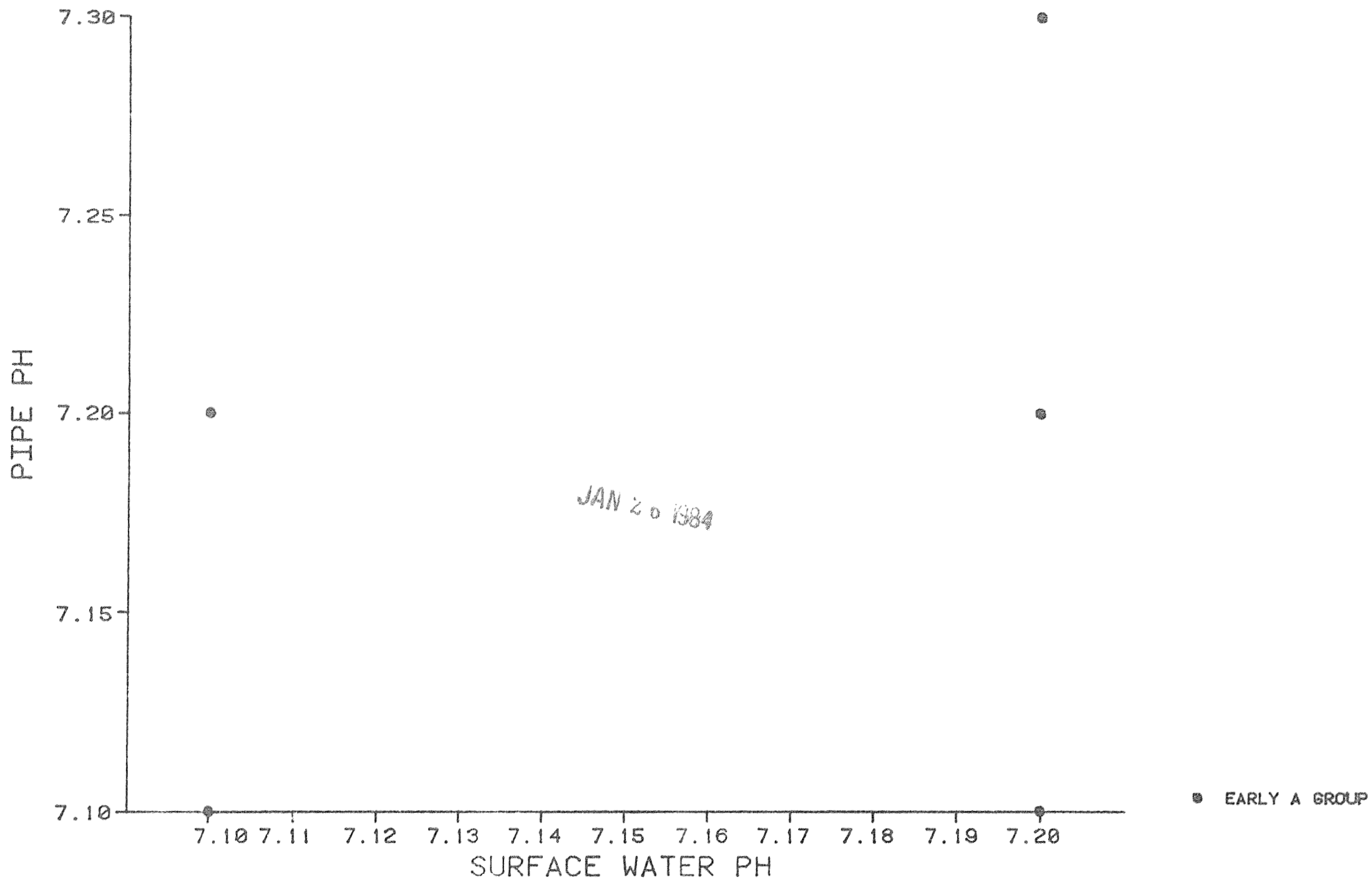


SLOUGH 9

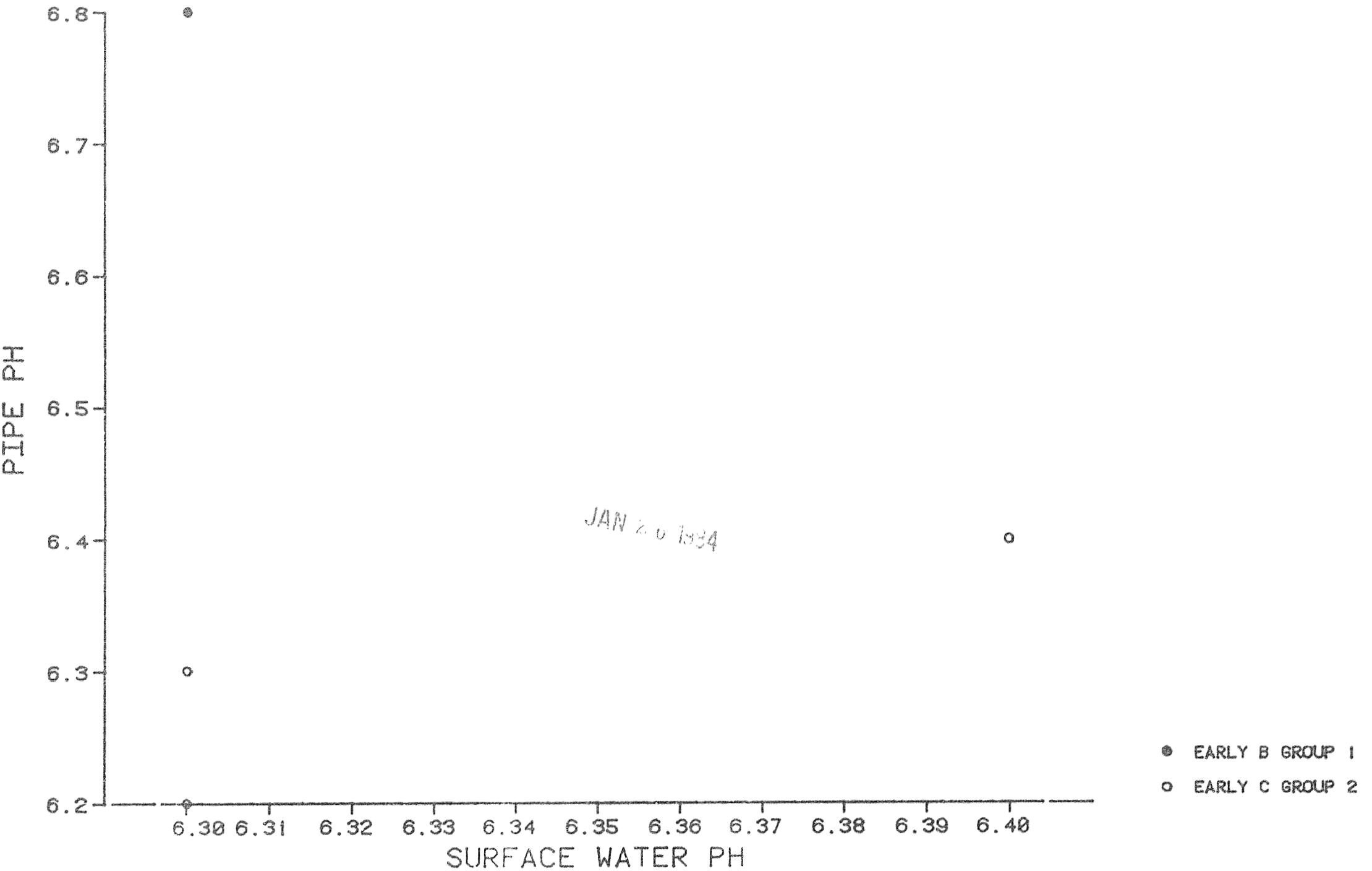
RIGHT BANK PH



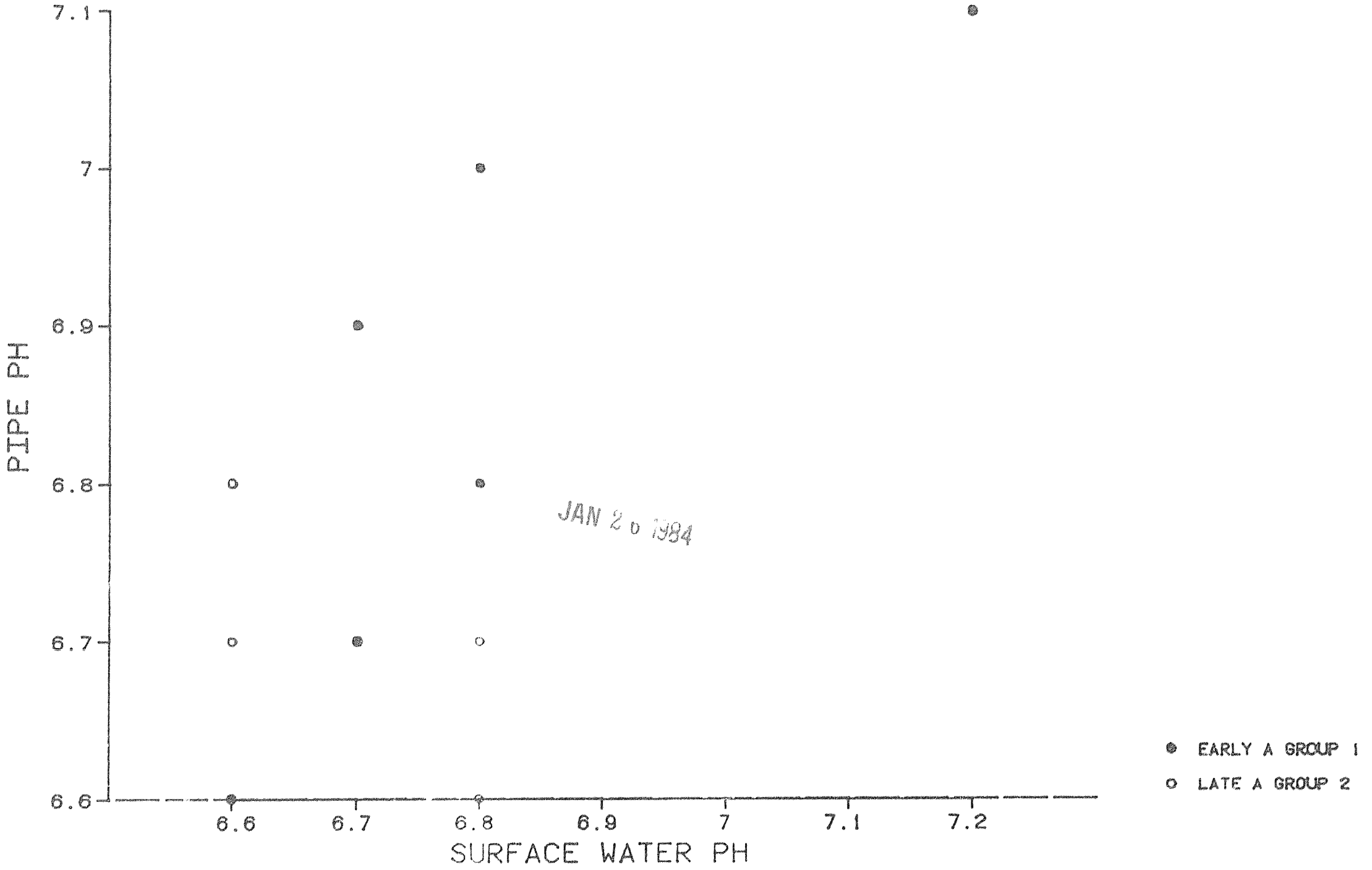
SLOUGH 11 LEFT BANK PH



SLOUGH 11 RIGHT BANK PH



SLOUGH 21 LEFT BANK PH



SLOUGH 21

RIGHT BANK PH

