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CANADIAN GEOTHERMAL DATA COLLECTION – NORTHERN WELLS 1976-77

A. E. Taylor and A. S. Judge



Geothermal Series
Number 10
Ottawa, Canada 1977

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1 Observatory Crescent
Ottawa Canada
K1A 0Y3

1 Place de l'Observatoire
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ABSTRACT

The assessment and solution of many problems which may occur in the development of northern regions require a knowledge of subsurface temperatures. This volume supplements three earlier volumes in this series, and it reports new measurements at 37 of the sites listed in the previous volumes and observations from 8 new sites. A total of 86 determinations of permafrost thickness have been reported in the collection to date. Determined thicknesses in the Arctic Islands range from 144 m to 728 m, in the Mackenzie Delta from 0 m to 700 m and in the remainder of the Northern Mainland from 0 m to in excess of 700 m.

RÉSUMÉ

L'étude et la solution des nombreux problèmes qui peuvent surgir lors de la mise en valeur des régions septentrionales exige que l'on connaisse les températures du sous-sol. Le présent volume s'ajoute aux trois volumes précédents de la même série et fait état des nouvelles mesures effectuées à 37 des emplacements énumérés dans les volumes précédents, et d'observations à 8 emplacements nouveaux. L'auteur rend compte, jusqu'à présent, de 86 déterminations de l'épaisseur du pergélisol. Les épaisseurs connues dans l'archipel Arctique varient entre 144 m et 728 m, dans le delta du Mackenzie entre 0 m et 700 m, et pour le reste du Nord continental, de 0 à plus de 700 m.

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PREFACE

Subsurface temperature data collected between February 1976 and May 1977 from boreholes of total depth greater than 125 m are reported in this volume. The volume supplements Taylor and Judge (1974, 1975, 1976) reporting only new sites and old sites where new data are available. The three volumes, hereafter referred to as the collection, present measurements from 30 sites in the Arctic Islands, 33 in the Mackenzie Delta and another 23 sites on the Arctic Mainland.

The object of this series of reports is to make widely available some of the base data necessary in the assessment and solution of many of the problems that may occur in northern development. Most of the data presented are from wells not yet in thermal equilibrium; however, where sufficient data exist, equilibrium conditions have been estimated.

A brief introduction discusses data acquisition and accuracy, the disturbance to thermal equilibrium by drilling and the determination of equilibrium permafrost thickness. This is followed by a series of appendices which present tables of measured temperature variation with time, graphs of temperature variations with depth at selected time intervals, tables of the logarithmic temperature return to equilibrium from which equilibrium conditions can be inferred, and graphs showing the rate at which equilibrium temperature is restored as a function of the ratio of drilling time to time since completion of drilling.

S E C T I O N 1

INTRODUCTION

The underlying purpose, the history of measurement, the methods of preservation of wells and of data acquisition have all been described at some length, both in Taylor and Judge (1974) and elsewhere. This present volume, plus Taylor and Judge (1974, 1975, 1976), is believed to contain all available non-confidential subsurface temperature information from holes of depths greater than 125 m within the permafrost regions of Canada. The authors would greatly appreciate receiving any additional information regarding other data known or possessed by the users of this series. Figures 1, 2 and 3 show locations of all sites of subsurface temperatures available in the collection. The number shown against each site is the Earth Physics Branch (EPB) file identification, and the symbol indicates the permafrost thickness at that site. Table 1 lists the 45 sites of new data presented in this volume and gives the EPB file number, the coordinates, the elevation, the total depth logged and the measurement techniques used for each.

This section, Section 1, describes the nature of the data included in this report, how to use the report, where to find specific information and how to interpret the results.

Section 2 deals specifically with the calculation of permafrost thickness using the measured data and the drilling history of the well. Table 2 presents all the calculated thicknesses of permafrost in the collection, indicates how they are determined and how close the particular wells are to thermal equilibrium. Because the presence of nearby water bodies may have a significant moderating influence on the permafrost, the distance to the nearest water body is given. The last column in Table 2 refers to the volume in the complete collection where the most recent set of data can be found.

Section 3 consists of a series of appendices which present measured and interpreted data.

Appendix 3.1 presents tables of the measured temperature and the date measured. At the top of each table is listed the EPB file number and the abbreviated well name. This is followed by well coordinates to the nearest 0.1 minute, and the elevation to the nearest metre. Below this is the available temperature information. In the summary of temperature: depth logs, each set of depth and temperature is headed by the date on which the measurements were made. Depths below the mean ground surface are given to the nearest 0.1 metre and recorded

temperatures to 0.01°C . Data accuracy was discussed in Taylor and Judge (1974). Other information given for each well is the complete official name, the well status at present, the well history (in the form of spud dates, abandonment dates and total well depths) and a reference when data are taken from published papers or reports. The individual wells are listed in order of EPB file number.

Appendix 3.2 presents graphs of temperature versus depth for each well. Temperatures are given in $^{\circ}\text{C}$ and depths in metres. Not all individual logs are plotted because this would unnecessarily complicate some of the graphs; however, sufficient logs are plotted to demonstrate their main characteristics. For most wells that have past the period of confidentiality, a simplified geologic section is included with the temperature graph. Principal formations are named and predominant rock types are given. The abbreviations used are:

C	coal	Q	quartz
CH	chert	QTE	quartzite
CG	conglomerate	SA	salt
CL	clay	SD	sand
CLST	claystone	SH	shale
DOL	dolomite	SL	slate
GR	gravel	SLT	siltstone
IGN	igneous	SS	sandstone
LS	limestone	W	organic
MDST	mudstone		

Appendix 3.3 presents tables derived on the assumption that the return of the well to thermal equilibrium can be expressed by a logarithmic relationship. The mathematics have been described in some detail in Taylor and Judge (1974, p. 8-10), and are not repeated here. Where a well is instrumented with a multi-thermistor cable, the depth of each calculation corresponds to sensor depth. Where logs have been made by a single thermistor probe, the exact depths of repeated measurements do not normally coincide and therefore, for the calculation of equilibrium temperatures, the temperatures have been interpolated linearly between depths at intervals of 25 m. For each depth given in column 1 of the tables, columns 2 and 3 list the calculated equilibrium temperature in $^{\circ}\text{C}$ and the standard deviation at the depth, columns 4 and 5 list the magnitude of the heat source introduced by the drilling process and its standard deviation, and column 6 gives the time in years necessary for the temperature to return to within 0.1°C of the equilibrium temperature. In some instances in the tables the calculated values of the heat source and

time are negative. Such results can arise where the equilibrium temperatures were little disturbed by drilling and results of differing accuracies have been combined. A negative heat source could appear in column 4 of the tables as a result of the hole being cooled during drilling. Such results have no other significance. Equilibrium temperatures are calculated only for wells on which two or more logs have been made. Standard deviations are given if three or more logs were made. The calculated equilibrium temperatures have been used to derive the permafrost thickness listed in Table 2.

Appendix 3.4 presents graphically the return to thermal equilibrium of each well for which there are three or more logs. Each graph is plotted with a logarithmic time scale against temperature for each depth or, in the case of single thermistor logs, each depth of interpolation. The time scale is modified to be a function of the time taken to drill the well: t_1 is the drilling time and t_2 is the time elapsed between completion and logging of the well.

Ideally, all of the points at each depth should be on a straight line and the intercept of this line with the vertical axis should give the equilibrium temperature. In practice, the thermal disturbance due to drilling is a very complex process and the theory is only an approximation. Within the frozen section, the dissipation of latent heat during freezeback complicates the picture even more. To simplify reading the graphs shown in Appendix 3.4, successive points at a few depths have been joined by lines.

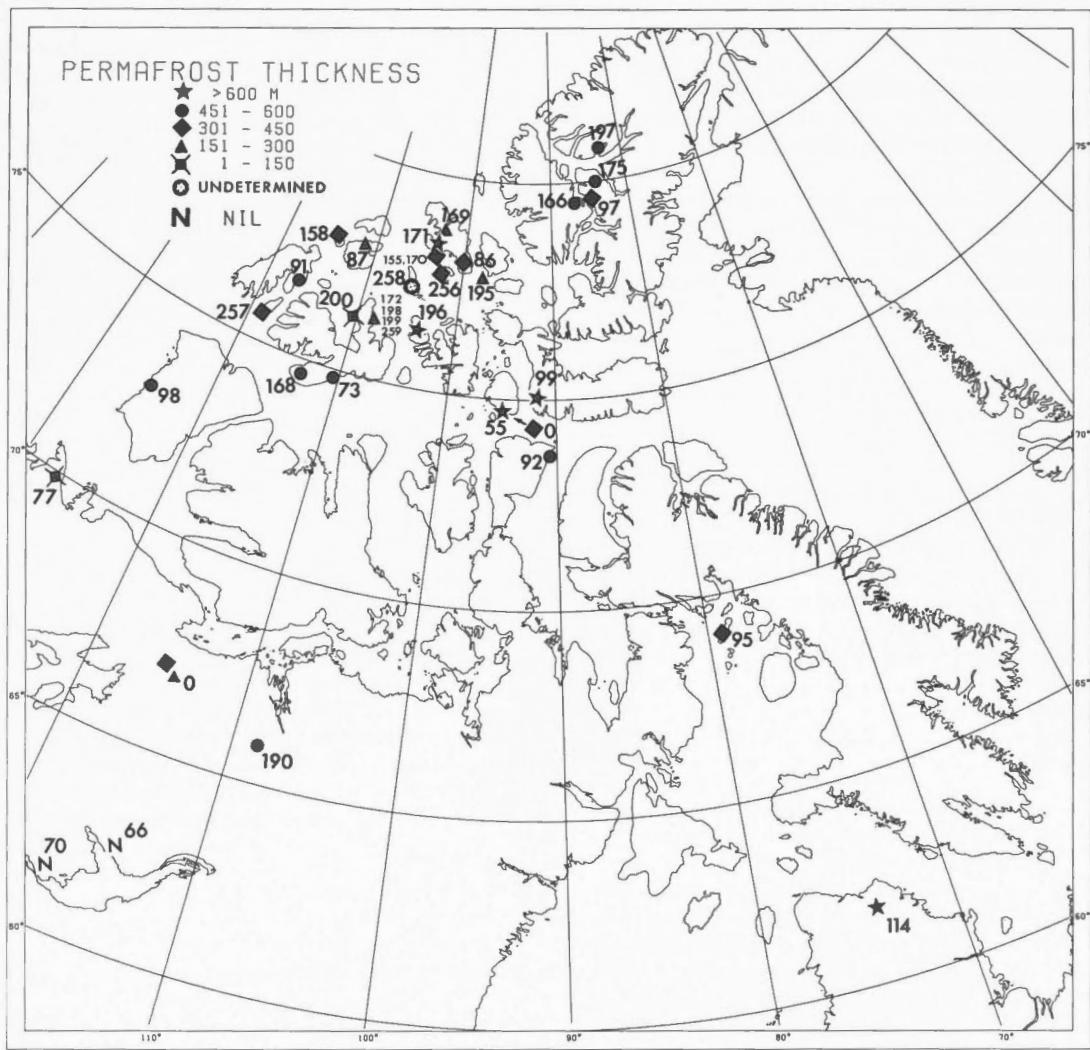


Figure 1. Site locations and permafrost thicknesses for Northern Canada (excluding the Mackenzie Valley and Delta). The symbols represent permafrost thicknesses in metres, and the numerals are Earth Physics Branch file numbers as used in Tables 1 and 2.

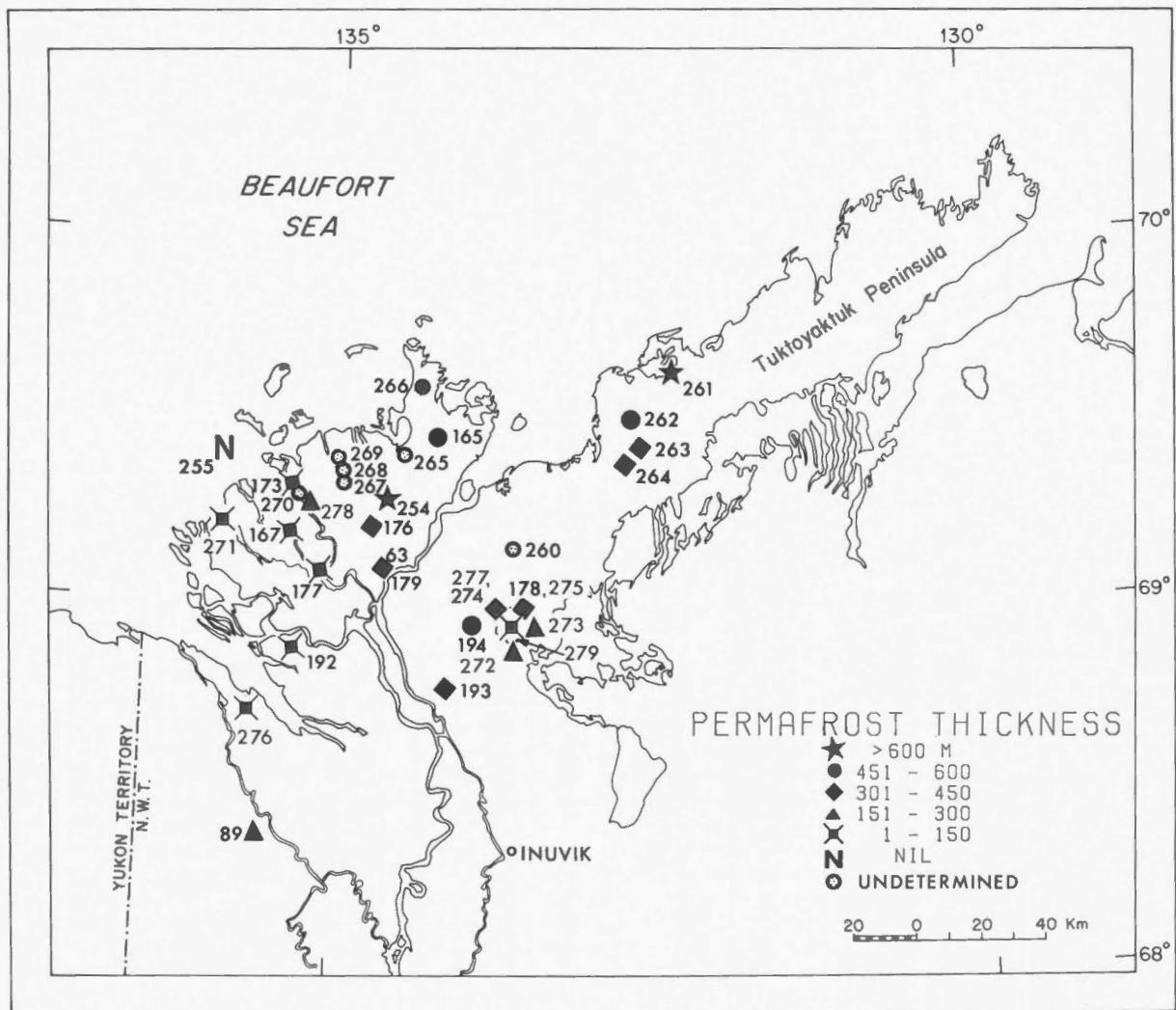


Figure 2. Site locations and permafrost thicknesses in the Mackenzie Delta. The numerals are Earth Physics Branch file numbers.

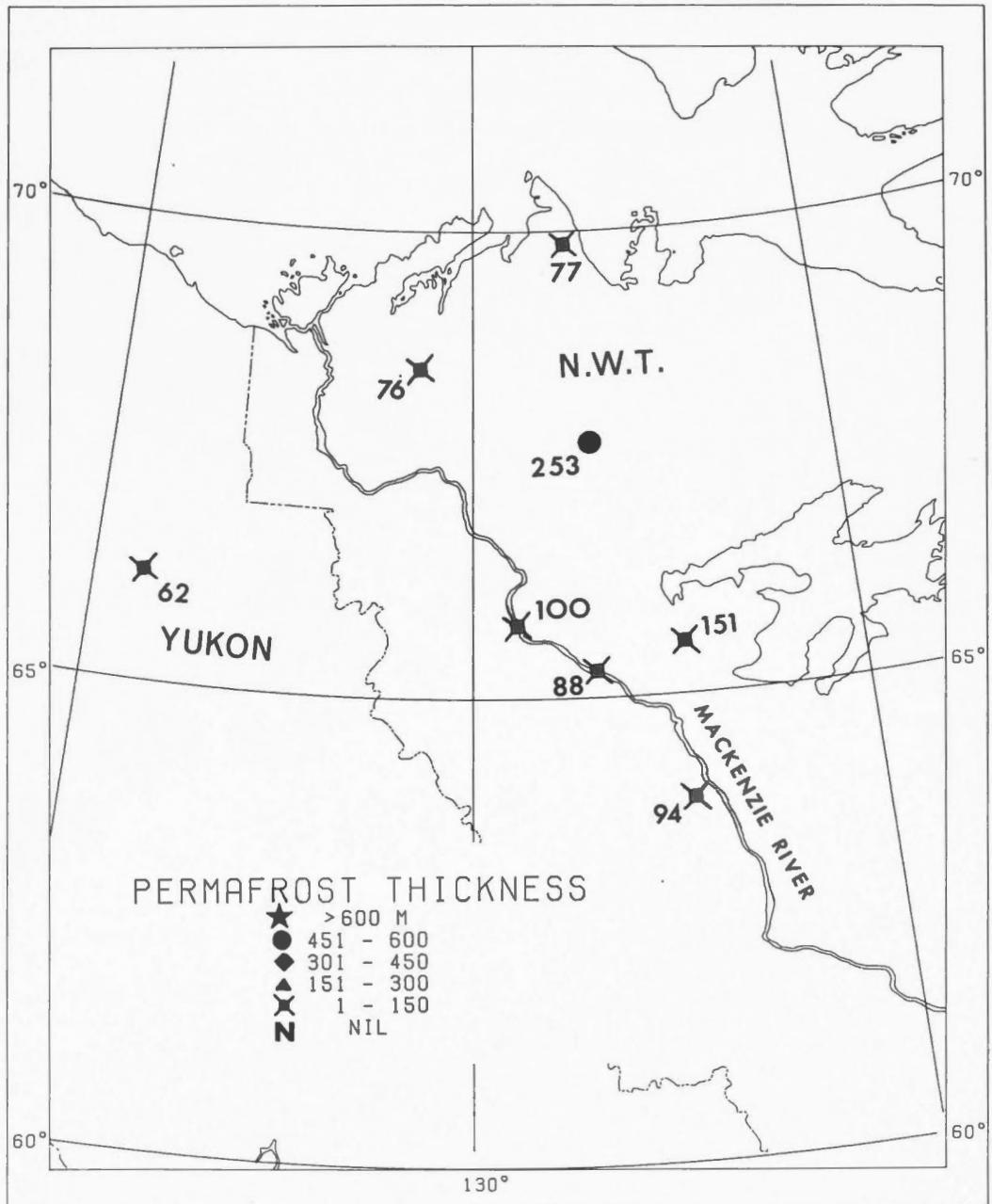


Figure 3. Site locations and permafrost thicknesses in the Mackenzie Valley (excluding the Mackenzie Delta). The numerals are Earth Physics Branch file numbers.

TABLE 1 SITES INCLUDED IN REPORT

EPR NO.	SITE NAME	LATITUDE N	LONGITUDE W	ELEV (M)	DEPTH LOGGED	MEAS. TECH. (M)
---------	-----------	---------------	----------------	-------------	-----------------	-----------------------

ARCTIC ISLANDS

86	HODDOO DOME H-37	78 6.5	99 45.6	156	655	S
155	KRISTOFFER BAY B-06	78 15.3	102 32.0	15	866	S
158	BROCK I-20	77 59.7	114 33.9	16	840	S
166	MOKKA A-02	79 31.2	87 1.2	253	442	M
168	DUNDAS C-80	74 39.0	113 23.0	240	660	S
169	LOUISE BAY D-25	78 44.9	102 42.0	69	672	S
170	THOR P-38	78 7.8	103 15.2	5	555	S
172	DRAKE B-44	76 23.1	108 16.1	4	746	S
175	GEMINI E-10	79 59.4	84 4.2	126	872	S
195	LIACKENS ISLAND P-46	77 45.8	97 45.4	1	518	M
196	BENT HORN N-72	76 21.8	103 58.2	63	869	S
197	NEIL D-15	80 44.6	83 4.8	497	807	S
199	DRAKE E-78	76 27.3	108 29.4	2	277	S
200	HFCLA I-69	76 18.7	110 23.3	2	519	S
256	SUTHERLAND D-23	77 42.9	102 8.5	21	472	S
257	PEDDER POINT D-49	75 38.2	118 48.3	101	551	S
258	PAT RAY A-72	77 21.0	105 27.0	17	488	S
259	DRAKE D-73	76 22.1	108 29.5	33	393	S

ARCTIC MAINLAND - MACKENZIE DELTA

165	KILAGMIOTAK F-48	69 27.5	134 11.9	20	381	S
167	UNIPKAT I-22	69 11.7	135 20.5	5	732	S
173	NIGLINTGAK H-30	69 19.4	135 20.1	2	298	S
176	YA YA P-53	69 12.8	134 42.7	36	602	S
179	REINDEER F-36	69 5.3	134 39.0	10	355	S
192	KUGPIK D-13	68 52.8	135 18.2	2	728	S
193	IKHIL I-37	68 46.6	134 7.8	125	611	S
254	YA YA A-28	69 17.2	134 35.5	40	601	S
260	RED FOX F-21	69 10.8	133 35.0	23	418	S
261	KIMIK D-29	69 38.1	132 22.2	10	603	S
262	ATERTAK E-41	69 30.5	132 42.1	12	538	S
264	PIKIOLIK E-54	69 23.2	132 44.6	18	526	S
266	IVIK J-26	69 35.7	134 20.6	23	280	S
267	TAGLU C-42	69 21.0	134 56.6	2	580	S
268	TAGLU D-43	69 22.3	134 56.8	1	558	S
269	TAGLU D-55	69 24.2	134 59.6	1	387	S
271	NORTH ELICE J-23	69 12.6	135 51.2	1	456	S
272	PARSCNS L-43	68 52.6	133 41.9	49	594	S
273	KAMIK D-48	68 57.2	133 27.5	31	294	S
274	SIKU C-11	69 0.0	133 38.8	58	518	S
275	PARSCNS N-17	68 56.9	133 34.0	52	610	S
276	ULU A-35	68 44.0	135 52.9	3	152	S
277	SIKU A-12	69 1.0	133 32.5	56	456	S
278	NIGLINTGAK B-19	69 18.2	135 18.3	2	395	S
279	PARSCNS L-37	68 56.7	133 39.9	38	337	S

ARCTIC MAINLAND - OTHER

77	HORTON RIVER G-02	69 51.4	127 15.9	34	363	S
114	ASBESTOS HILL -2	61 47.8	73 58.4	465	121	M
253	TEDJI LAKE K-24	67 43.6	126 49.9	343	574	S

NOTES...

- 1) EPR NO. = EARTH PHYSICS BRANCH SITE NUMBER, BY WHICH DATA ARE ORDERED IN THIS REPORT.
- 2) DEPTH LOGGED IS DEPTH OF DEEPEST TEMP LOG IN METRES.
- 3) TEMPERATURE MEASURING TECHNIQUE.
 S = SINGLE THERMISTOR PROBE LOG
 M = MULTITHERMISTOR CABLE LOG

S E C T I O N 2

PERMAFROST DISTRIBUTION AND THICKNESS

One of the prime purposes of this collection is to determine the distribution and thickness of permafrost in northern Canada. Table 2 lists all the values determined from temperature data included in the collection. The information listed in the first four columns of the table is self-explanatory. Column 5 lists the "depth to an equilibrium temperature of 0°C", the permafrost thickness. This depth has been determined in a variety of ways depending on the number of logs made and the total depth logged. Where three or more logs have been run, the depth has been determined from the tables of equilibrium temperature derived for Appendix 3.3 by assuming a logarithmic return to equilibrium. The value in the column is preceded by 'E'. In cases where a well did not completely penetrate the permafrost and temperatures have been extrapolated to greater depths, the value is preceded by 'X'. Many of the wells have been logged once or twice only and the listed value is derived by direct interpolation from the latest log. Such values, indicated by a plus (+) sign, probably underestimate the permafrost thickness. In cases where the measurements did not fully penetrate permafrost and the measurements are unsuitable for extrapolation, a '*' appears in column 5. Some assessment of the degree of disturbance in the well may be gauged by reference to column 7, the time ratio which expresses the ratio of the time between well completion and the latest log to the drilling time. Generally, a number greater than 25 indicates measured temperatures are within 0.1°C of the final equilibrium values.

In wells drilled through permafrost with high ice content, most logs made within a few months of well completion have revealed a temperature jump of several degrees (for example, see Appendix 3.1, EPB file #272, Parsons L-43). On subsequent logs the depth of this jump has been found to coincide closely with the base of the permafrost, and has been interpreted as indicating the base of the frozen section. This value is given in Column 6 to a depth accuracy that is determined by the spacing of temperature observations.

Permafrost thickness may be considerably modified locally by the presence of nearby bodies of water. The distance to the nearest significant body is listed in column 8.

Finally, column 9 indicates the volume of the collection in which the most recent set of temperature data for a particular site is to be found.

Permafrost thickness and its geographical distribution are presented on the site maps, figures 1, 2 and 3.

Detailed discussion and interpretation of the permafrost thickness will be published elsewhere.

TABLE 2 PERMAFROST THICKNESS

EPB NO.	SITE NAME	LATITUDE N	LONGITUDE W	DEPTH TO 0 DEG C	THICKNESS FROZEN (M)	TIME RATIO	DISTANCE TO WATER BODY (KM)	REF
								(M)
ARCTIC ISLANDS								
197	NEIL D-15	80 44.6	63 4.8	E 553		21	4.5	10
175	GEMINI E-10	79 59.4	84 4.2	E 505		11	20	10
97	FOSHEIM A-27	79 36.9	84 43.3	300+		.02	7	1
166	MOKKA A-02	79 31.2	87 1.2	EX515		6	3	10
169	LOUISE BAY D-25	78 44.9	102 42.0	E 256		19	13	10
171	DOME BAY P-36	78 25.9	103 15.8	X 660		12	7	3
155	KRISTOFFER BAY B-06	78 15.3	102 32.0	E 445		13	.1	10
170	THOR P-38	78 7.8	103 15.2	E 336		52	.1	10
86	HOODOC DOME H-37	78 6.5	99 45.6	E 306		8.7	13	10
158	BRCK I-20	77 59.7	114 33.9	E 429		24	5	10
87	WILKINS E-60	77 59.3	111 21.7	271+		1.1	9	1
195	LINCKENS ISLAND P-46	77 45.6	97 45.4	E 251		23	.01	10
256	SUTHERLAND D-23	77 42.9	102 8.5	E 331		1.8	1	10
258	PAT BAY A-72	77 21.0	105 27.0	*		12	2	10
91	JAMESON BAY C-31	76 40.2	116 43.7	E 483		13.5	12	3
199	DRAKE E-78	76 27.3	108 29.4	E 171		68	.1	10
198	DRAKE D-68	76 27.1	108 55.7	210+		.5	12	3
172	DRAKE B-44	76 23.1	108 16.1	E 190		45	.05	10
259	DRAKE D-73	76 22.1	108 29.5	E 290		22	3	10
196	BENT HORN N-72	76 21.8	103 58.2	E 726	680+-15	8.5	2	10
200	HECLA I-69	76 18.7	110 23.3	E 144		22	.3	10
257	PEDOOR POINT D-49	75 38.2	118 48.3	E 343		31	7	10
99	DEVON E-45	75 4.3	91 48.3	X 600+		15	1.6	6
73	WINTER HARBOUR	74 48.1	110 30.6	E 535		19	1	1
0	RESOLUTE 1	74 41.0	94 53.8	X 380			.1	1
55	LOPITCS RESOLUTE L-41	74 40.7	94 44.6	EX600		34	1.3	1
168	DUNDAS C-80	74 39.0	113 23.0	E 577		13	21	10
92	GARNIER D-21	73 40.9	90 36.8	500+		.02	2	1
98	STORKERSCN BAY A-15	72 54.0	124 33.5	X 500		3.1	1.6	1
95	ROWLEY M-04	69 4.0	79 3.8	E 400		47	3	3
ARCTIC MAINLAND - MACKENZIE DELTA								
261	KIMIK D-29	69 38.1	132 22.2	X 663		38	.3	10
266	IVIK J-26	69 35.7	134 20.6	X 500		13	.5	10
262	ATERTAK E-41	69 30.5	132 42.1	535+		40	.5	10
165	KILAGMIOTAK F-48	69 27.5	134 11.9	X 600		6	.2	10
263	PIKIOLIK M-26	69 25.9	132 37.4	362+		33	.3	6
265	MALLIK A-06	69 25.0	134 30.3	*		7	.3	6
255	ADGO P-25	69 24.9	135 50.5	0		3.5	0	6
269	TAGLU D-55	69 24.2	134 59.6	*		17	1	10
264	PIKICLIK E-54	69 23.2	132 44.6	432+		34	.2	10
268	TAGLU D-43	69 22.3	134 56.8	*		15	.3	10
267	TAGLU C-42	69 21.0	134 56.6	*		13	.2	10
173	NIGLINTGAK H-30	69 19.4	135 20.1	E 149		6.8	.2	10
270	NIGLINTGAK M-19	69 18.8	135 19.4	*		1.3	.2	6
278	NIGLINTGAK R-19	69 18.2	135 18.3	156+	168+-15	6.1	.5	10
254	YA YA A-28	69 17.2	134 35.5	X 700		18	.3	10
176	YA YA P-53	69 12.8	134 42.7	E 435	402+-15	14	.3	10
271	NORTH ELLICE J-23	69 12.6	135 51.2	58+	52+-8	2.5	.2	10
167	UNIPKAT I-22	69 11.7	135 20.5	E 85		6.4	.1	10
260	RED FOX P-21	69 10.8	133 35.0	*		9	.15	10
63	REINDEER D-27	69 6.1	134 36.9	E 370	338+-15	19	.2	6
177	TITALIK K-26	69 5.5	135 6.3	65+		1.0	.2	1
179	REINDEER F-36	69 5.3	134 39.0	EX355	338+-8	26	.2	10
277	SIKU A-12	69 1.0	133 32.5	353+	343+-8	6.6	.2	10
274	SIKU C-11	69 0.0	133 38.8	E 375	358+-8	6.2	.2	10
178	PARSCNS N-10	68 59.8	133 31.8	E 356	341+-15	8.3	.3	6
273	KAMIK D-48	68 57.2	133 27.5	X 300		3.4		10
194	ATIGI D-48	68 57.0	133 56.1	EX588	564+-15	10	.1	6
275	PARSONS N-17	68 56.9	133 34.0	E 346	320+-15	2.9	.1	10
279	PARSCNS L-37	68 56.7	133 39.9	54+		.1	.1	10
192	KUGPIK D-13	68 52.8	135 18.2	E 84		5	.1	10
272	PARSCNS L-43	68 52.6	133 41.9	E 283	259+-15	7.6	.2	10
193	IKHIL T-37	68 46.6	134 7.8	E 346	341+-8	5.1	1	10
276	ULU A-35	68 44.0	135 52.9	55+		1.0	.4	10
89	BEAVER HOUSE H-13	68 22.3	135 33.0	E 197		10	1.5	3

TABLE 2 PERMAFROST THICKNESS

EPB NO.	SITE NAME	LATITUDE N	LONGITUDE W	DEPTH TO 0 DEG C	THICKNESS FROZEN (M)	TIME RATIO	DISTANCE TO WATER BODY (KM)	REF
ARCTIC MAINLAND - OTHER								
77	HORTON RIVER G-02	69 51.4	127 15.9	E 144		42	7	10
76	KUGALUK N-02	68 32.0	131 31.3	E 182		4	.5	1
253	TEDJI LAKE K-24	67 43.6	126 49.9	453+		17	.2	18
0	MUSKOK NORTH	67 5.5	115 16.5	350+		.1	1	1
0	MUSKOK SOUTH	67 .5	115 13.0	160+		7	.05	1
62	NORTH CATH B-62	66 11.2	138 41.6	E 89		25	6	1
190	HACKETT RIVER 190-1	65 55.0	108 28.2	500+			2	3
190	HACKETT RIVER 190-2	65 55.0	108 28.2	500+			2	3
100	HUME RIVER D-53	65 52.0	129 11.0	35+		23	.2	1
151	WEST WHITEFISH H-34	65 33.4	124 35.7	E 112		34	2	3
88	NORMAN WELLS CANOL 30X	65 17.2	126 51.9	143+			.9	1
88	NORMAN WELLS CANOL 19X	65 17.1	126 52.8	58+			.2	1
88	NORMAN WELLS CANOL 18X	65 17.1	126 52.0	76+			.6	1
88	NORMAN WELLS CANOL 7X	65 17.0	126 50.8	128+			.3	1
0	NORMAN WELLS CANOL 33X	65 16.9	126 50.5	62+			.3	1
88	NORMAN WELLS BEAR I 13	65 15.5	126 53.3	67+			.4	1
88	NORMAN WELLS BEAR I 7	65 15.4	126 52.9	52+			.5	1
94	DAHADINNI M-43A	63 53.0	124 39.3	E 51		5	35	3
66	YELLOWKNIFE	62 30.5	114 25.3	0		18	.08	1
114	ASBESTOS HILL -3	61 49.3	73 57.7	X 500+		.4	10	6
114	ASBESTOS HILL -1	61 48.9	73 57.9	X 700+		6	10	6
114	ASBESTOS HILL -2	61 47.8	73 58.4	X 700+		365	10	10
70	PROVIDENCE A-47	61 26.2	117 22.5	0		78	18	1

NOTES...

- 1) EPB NO. = EARTH PHYSICS BRANCH SITE NUMBER. EARLY SITES TAKEN FROM THE LITERATURE ARE REFERRED TO AS EPB NO. 0.
- 2) DEPTHS TO 0 DEGREES C ARE OBTAINED FROM
 - LOGARITHM RETURN TO EQUILIBRIUM TABLES (DEPTH PRECEDED BY "E"), (SEE TEXT).
 - AN EXTRAPOLATION TO GREATER DEPTHS ("X")
 - DEEPER THAN LOGGED DEPTH, NOT SUITABLE FOR EXTRAPOLATION (*)
 - DIRECT INTERPOLATION FROM LATEST LOG (FOLLOWED BY "+")
- 3) TIME RATIO IS RATIO OF "TIME SINCE DRILLING COMPLETION FOR LATEST LOG - TO DRILLING TIME". (SEE TEXT)
- 4) REF INDICATES WHERE DATA ON SITE IS PUBLISHED
 - 1, CANADIAN GEOTHERMAL DATA COLLECTION,
- NORTHERN WELLS, 1955 TO FEBRUARY 1974.
GEOTHERMAL SERIES OF THE E.P.B., NO. 1, (1974).
 - 3, CANADIAN GEOTHERMAL DATA COLLECTION,
- NORTHERN WELLS 1974.
GEOTHERMAL SERIES OF THE E.P.B., NO. 3, (1975).
 - 6, CANADIAN GEOTHERMAL DATA COLLECTION,
- NORTHERN WELLS 1975.
GEOTHERMAL SERIES OF THE E.P.B., NO. 6, (1976).
 - 10, THIS VOLUME.

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S E C T I O N 3

APPENDICES

3.1 Tables of Temperature versus Depth

LATITUDE 69 DEGREES 51.4 MINUTES NORTH

LONGITUDE 127 DEGREES 15.9 MINUTES WEST

ELEVATION 34 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 26 9 70	DEPTH (M)	TEMP (C)	DATE OF LOG 14 8 71	DEPTH (M)	TEMP (C)	DATE OF LOG 18 7 72	DEPTH (M)	TEMP (C)	DATE OF LOG 11 7 76	DEPTH (M)	TEMP (C)
21.3	-6.10	15.6	-7.08	11.3	-8.19	15.2	-8.13				
36.6	-5.67	30.6	-6.73	20.1	-7.65	30.5	-7.36				
51.8	-5.08	46.2	-6.19	27.7	-7.25	61.0	-5.88				
67.1	-4.18	61.2	-5.39	36.0	-7.01	91.1	-3.79				
82.3	-3.47	68.9	-4.89	43.9	-6.72	121.9	-1.48				
97.5	-2.57	76.5	-4.35	51.5	-6.41	152.4	.59				
112.8	-1.45	84.2	-3.86	58.8	-6.02	182.9	3.58				
128.0	.04	91.8	-3.35	66.8	-5.70	213.4	6.03				
143.3	1.42	100.1	-2.79	74.4	-5.12	243.8	7.66				
158.5	2.77	107.4	-2.19	82.6	-4.53	274.3	9.49				
173.7	4.08	115.1	-1.53	90.2	-3.96	304.8	10.94				
189.0	5.18	122.4	-.95	97.8	-3.51	335.0	12.97				
204.2	6.35	130.4	-.16	105.5	-2.89	346.3	13.32				
219.5	7.17	138.3	.48	113.4	-2.38						
234.7	8.13	145.4	1.18	121.0	-1.68						
249.9	8.58	153.0	1.91	129.2	-.94						
265.2	9.70	161.0	2.55	136.9	-.35						
280.4	10.45	168.3	3.10	144.8	.45						
295.7	11.13	176.3	3.76	152.1	1.14						
310.9	11.92	183.9	4.30	160.0	1.79						
326.1	12.65	191.3	4.91	167.6	2.30						
341.4	13.62	198.9	5.52	175.6	3.12						
355.5	13.90	206.6	6.08	183.5	3.65						
		214.2	6.49	191.4	4.24						
		222.2	6.93	199.3	4.87						
		229.5	7.36	206.7	5.41						
		237.5	7.80	214.6	5.93						
		244.8	8.20	222.5	6.36						
		260.4	9.10	230.1	6.83						
		276.9	9.89	238.0	7.27						
		291.0	10.56	246.0	7.66						
		306.0	11.27	253.6	8.09						
		321.6	12.03	261.5	8.53						
		336.6	12.84	269.4	8.98						
		344.3	13.36	277.1	9.36						
		351.9	13.56	285.0	9.74						
				292.9	10.10						
				300.8	10.46						
				308.5	10.87						
				316.1	11.25						
				324.3	11.65						
				332.2	12.03						
				340.2	12.59						
				348.1	13.13						
				355.4	13.29						
				363.3	13.48						

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

ELF HORTON RIVER G-02

-WELL SPUDED 9 11 69

-DRILLING FOR 65 DAYS TO A TOTAL DEPTH OF 2478 METERS

-DRILLING STOPPED 15 1 70

-WELL ABANDONED 22 1 70

EARTH PHYSICS BRANCH HOLE NO. 86 HOODOO DOME H-37

LATITUDE 78 DEGREES 6.5 MINUTES NORTH LONGITUDE 99 DEGREES 45.6 MINUTES WEST
 ELEVATION 156 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 9 5 71	DATE OF LOG 12 5 72	DATE OF LOG 13 5 73	DATE OF LOG 14 5 76
DEPTH (M)	DEPTH (M)	DEPTH (M)	DEPTH (M)
TFMP (C)	TEMP (C)	TEMP (C)	TEMP (C)
16.2	-13.63	33.5	-14.31
31.4	-11.31	63.7	-12.37
61.9	-11.19	94.2	-10.37
92.4	-9.17	124.7	-8.42
122.8	-6.99	155.1	-6.76
153.3	-5.37	185.6	-4.89
183.8	-3.80	215.8	-3.29
214.3	-2.23	246.3	-1.44
244.8	-.98	276.8	.03
275.2	1.09	307.2	1.68
305.7	2.55	337.7	3.14
336.2	3.86	368.2	4.45
366.7	5.17	398.4	5.59
397.2	6.41	428.9	6.40
427.6	7.09	459.0	6.92
458.1	7.54	489.5	7.60
488.6	8.22	520.0	8.41
519.1	9.02	550.5	8.95
549.6	9.56	580.6	9.40
580.0	9.99	611.1	10.14
		304.8	1.17
		320.3	2.11
		335.3	2.74
		350.5	3.43
		365.5	4.09
		381.0	4.76
		396.5	5.34
		411.5	5.80
		427.0	6.15
		442.3	6.42
		457.2	6.69
		472.4	7.00
		487.4	7.34
		502.9	7.82
		518.5	8.16
		533.4	8.48
		548.9	8.74
		563.9	8.96
		579.1	9.20
		594.4	9.45
		609.6	9.82
		624.8	10.18
		639.8	10.41
		655.3	10.67
		643.7	10.57

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
 FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

PANARCTIC HOODOO DOME H-37

- WELL SPUNDED 20 12 69
- DRILLING FOR 240 DAYS TO A TOTAL DEPTH OF 3375 METERS
- WELL ABANDONED 17 8 70

EARTH PHYSICS BRANCH HOLE NO. 114 ASBESTOS HILL -2

LATITUDE 61 DEGREES 47.8 MINUTES NORTH

LONGITUDE 73 DEGREES 58.4 MINUTES WEST

ELEVATION 465 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE DATE DATE DATE
25 7 74 29 7 74 30 7 74 14 7 76

DEPTH (M)	TEMP (C)	TEMP (C)	TEMP (C)	TEMP (C)
2.6	-8.61	-8.59	-8.58	-8.99
15.8	-7.43	-7.54	-7.51	-7.69
29.0	-7.21	-7.29	-7.30	-7.56
42.2	-7.06	-7.14	-7.14	-7.27
55.4	-7.06	-7.06	-7.05	-7.19
68.6			-7.00	-7.04
81.8	-6.98	-6.99	-6.77	-7.08
95.0			-6.70	
108.2	-6.76	-6.77	-6.72	-6.85
121.4			-6.42	-6.68

TEMPERATURE RESULTS ARE OBTAINED FROM A MULTI-THERMISTOR CABLE
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

ASBESTOS CORP. ASBESTOS HILL 74-AH-101 CABLE 122

- WELL SPOOLED 14 7 74
- DRILLING FOR 2 DAYS TO A TOTAL DEPTH OF 147 METERS
- DRILLING STOPPED 16 7 74

HOLE DIPS 60 DEGREES. DEPTHS ARE CORRECTED TO VERTICAL DEPTH.

INITIAL TEMPERATURE LOGS TAKEN ON FOLLOWING DATES AND TIMES...

25 07 74 20H 00M. 29 07 74 19H 00M. 30 07 74 15H 00M.

LATITUDE 78 DEGREES 15.3 MINUTES NORTH

LONGITUDE 102 DEGREES 32.0 MINUTES WEST

ELEVATION 15 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 11 5 72	DATE OF LOG 14 9 72	DATE OF LOG 13 5 73	DATE OF LOG 20 5 74	DATE OF LOG 14 5 75	DATE OF LOG 13 5 76
DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
31.1	-10.60	55.5	-10.22	15.2	-16.72
61.6	-10.56	86.0	-9.44	30.5	-15.27
92.0	-9.08	116.4	-8.33	45.7	-14.53
122.5	-7.83	146.9	-7.28	61.0	-14.01
153.0	-6.28	177.4	-6.39	75.9	-13.49
183.2	-4.84	207.9	-5.56	91.4	-12.79
213.7	-3.51	238.4	-4.28	106.7	-12.20
243.8	-2.47	268.8	-2.83	121.9	-11.58
276.3	-1.26	299.3	-1.83	136.9	-11.00
304.5	-1.17	314.6	-1.44	152.4	-10.50
335.0	-1.63	329.8	-1.22	167.6	-9.98
365.5	.52	345.0	-1.17	182.9	-9.51
395.6	2.84	360.3	-1.00	197.8	-8.98
426.1	4.11	390.8	.56	213.4	-8.52
456.6	5.96	421.2	1.89	228.6	-7.57
		451.7	3.67	243.8	-7.06
		482.2	5.00	259.1	-6.45
		512.7	6.22	274.3	-5.82
		543.2	8.22	289.6	-5.21
		573.6	9.56	304.5	-4.72
		604.1	11.00	320.0	-4.12
		634.6	12.39	335.3	-3.64
		665.1	13.50	350.5	-3.26
		365.8	-2.78	358.6	-3.57
		381.0	-2.04	373.5	-2.94
		396.2	-1.23	384.8	-2.22
		411.8	-.61	403.4	-1.51
		426.4	.06	418.6	-.98
		442.0	1.16	433.3	-.24
		457.5	2.05	448.2	1.01
		472.1	2.82	463.2	1.80
		487.7	3.65	478.1	2.65
		503.2	4.50	493.4	3.38
		518.2	5.34	508.0	4.26
		533.4	6.25	527.7	5.14
		548.6	7.04	537.9	5.96
		563.9	7.77	552.8	6.79
		579.1	8.53	567.8	7.48
		594.4	9.32	583.0	8.28
		609.6	10.12	597.7	9.02
		624.8	10.91	612.6	9.84
		640.1	11.51	627.8	10.60
		655.3	12.09	642.5	11.19
		670.9	12.75	657.7	11.77
		685.8	13.38	672.4	12.40
		701.0	14.02	687.3	13.02
		716.6	14.72	702.2	13.67
		731.5	15.40	717.2	14.33
		746.8	16.03	722.4	15.07
		762.0	16.67	747.1	15.66
		777.5	17.26	762.0	16.30
		792.5	17.85	776.9	16.89
				791.9	17.45
				806.8	18.09
				821.8	18.67
				836.7	19.27

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

PANAPCTIC TENNFCO ET AL KRISTOFFER RAY R-06

- WELL SPUNDED 9 11 71
- DRILLING FOR 119 DAYS TO A TOTAL DEPTH OF 3925 METERS
- DRILLING STOPPED 8 3 72
- WELL ABANDONED 17 3 72

LATITUDE 77 DEGREES 59.7 MINUTES NORTH LONGITUDE 114 DEGREES 33.9 MINUTES WEST
 ELEVATION 16 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 16 9 72	DATE OF LOG 12 5 73	DATE OF LOG 19 5 74	DATE OF LOG 18 5 77
DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
73.2	-9.11	15.3 -13.16	15.3 -15.35
85.3	-8.72	30.5 -13.05	30.0 -15.17
100.6	-8.06	45.8 -14.21	44.7 -15.19
115.8	-7.39	61.1 -14.07	59.7 -14.83
131.1	-6.67	76.7 -13.30	75.3 -14.60
146.3	-5.89	91.9 -12.41	90.0 -13.32
161.5	-5.11	107.2 -11.59	105.0 -12.11
176.8	-4.22	122.2 -10.53	120.3 -11.18
192.0	-3.61	137.7 -9.74	135.0 -10.56
207.3	-3.00	152.7 -8.83	150.0 -9.47
222.5	-2.89	168.0 -7.64	165.3 -8.61
231.6	-2.50	182.9 -6.94	180.3 -7.35
237.7	-1.89	198.5 -6.25	195.0 -6.74
240.8	-1.67	213.5 -5.81	211.0 -6.39
253.0	-2.39	229.4 -5.32	225.3 -5.99
268.2	-2.00	244.6 -4.93	240.3 -5.55
283.5	-1.56	259.6 -4.59	255.0 -5.20
298.7	-1.44	274.9 -4.19	270.0 -4.78
313.9	-1.39	290.4 -3.73	285.0 -4.38
329.2	-1.17	305.4 -3.36	300.0 -4.02
344.4	-1.06	320.7 -3.15	315.0 -3.70
359.7	-.44	336.3 -2.84	330.3 -3.33
390.1	1.11	351.2 -2.47	345.7 -2.98
420.6	2.50	366.2 -2.03	360.0 -2.52
451.1	3.39	382.1 -1.36	375.3 -2.02
481.6	5.11	397.0 -4.2	390.0 -1.47
512.1	6.56	412.3 .17	405.3 -.38
542.5	8.33	427.3 .58	420.0 .31
573.0	9.94	442.8 1.15	435.3 .85
603.5	11.67	458.1 2.30	450.0 1.44
634.0	13.22	473.4 3.22	465.0 2.29
664.5	15.00	488.7 4.02	481.3 3.21
694.9	15.89	503.9 4.80	495.0 4.00
		519.2 5.59	510.0 4.79
		534.8 6.97	525.3 5.53
		549.7 7.65	541.6 6.82
		565.0 8.59	555.0 7.59
		580.3 9.68	569.7 8.61
		595.5 10.65	585.3 9.68
		610.8 11.56	600.0 10.59
		625.8 12.32	615.7 11.49
		641.1 13.29	630.0 12.33
		656.6 14.35	645.0 13.30
		671.9 15.10	660.0 14.31
		687.2 15.62	675.0 14.99
		702.4 16.05	690.0 15.51
		718.3 16.56	705.0 15.94
		733.0 17.12	720.0 16.45
		748.3 17.73	735.0 17.01
		763.5 18.39	750.0 17.65
		779.4 19.14	765.0 18.34
			781.7 19.04
			795.0 19.62
			817.3 20.21
			825.0 20.78
			840.0 21.25

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
 FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

PANARCTIC BFOCK I-20

- WELL SPUCED 14 4 72
- DRILLING FCP 73 DAYS TO A TOTAL DEPTH OF 3177 METERS
- DRILLING STOPPED 26 6 72
- WELL ABANDONED 28 6 72

N.B. LCG OF 16 09 72 TAKEN BY PANARCTIC.

EARTH PHYSICS BRANCH HOLE NO. 165 KILAGMIOTAK F-48

LATITUDE 69 DEGREES 27.5 MINUTES NORTH LONGITUDE 134 DEGREES 11.9 MINUTES WEST
ELEVATION 20 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 1 4 73		DATE OF LOG 19 6 73		DATE OF LOG 4 2 74		DATE OF LOG 15 8 74		DATE OF LOG 24 7 75		DATE OF LOG 1 5 76		DATE OF LOG 18 3 77	
DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
16.5	-6.81	14.9	-6.80	18.9	-8.73	13.1	-8.00	14.0	-6.31	30.2	-7.56	30.5	-8.58
31.1	-4.94	29.8	-5.85	34.7	-7.21	28.0	-6.99	29.0	-7.20	45.7	-7.12	61.3	-7.42
45.7	-4.21	44.7	-5.40	65.2	-6.40	57.9	-6.58	44.2	-7.00	61.0	-6.99	91.7	-6.75
61.0	-4.21	59.5	-5.43	95.7	-5.95	88.1	-6.30	59.1	-6.86	91.7	-6.67	121.9	-6.37
77.1	-3.90	74.7	-5.29	126.2	-5.20	118.0	-5.84	74.7	-6.74	121.9	-6.32	152.4	-5.88
91.4	-3.21	89.3	-4.88	156.4	-4.65	147.5	-5.26	89.6	-6.58	152.4	-5.78	182.9	-5.53
107.6	-2.68	104.2	-4.63	186.5	-4.16	177.4	-5.30	105.2	-6.39	182.9	-5.50	213.4	-5.15
121.9	-1.42	119.4	-3.74	217.0	-3.80	207.3	-4.56	120.4	-6.12	213.4	-5.11	243.8	-4.81
137.2	-0.67	134.0	-2.66	247.2	-3.04	237.4	-4.28	135.3	-5.78	243.8	-4.82	274.3	-4.45
152.4	-0.58	148.8	-1.18	277.4	-2.07	267.3	-3.83	150.9	-5.57	274.3	-4.48	304.8	-4.07
167.6	-0.52	163.7	-0.91	307.8	-1.38	296.9	-1.39	166.1	-5.51	304.8	-3.96	329.2	-3.98
182.9	-0.60	178.6	-1.19	323.1	-1.04	311.8	-1.68	181.4	-5.28	328.9	-3.89		
198.1	-0.58	193.5	-0.84					196.9	-5.05				
213.4	-0.56	208.4	-0.70					212.1	-4.91				
228.6	-0.58	223.2	-0.76					227.7	-4.76				
243.8	-0.59	238.1	-0.77					243.2	-4.58				
259.1	-0.58	253.0	-0.67					258.2	-4.45				
274.3	-0.59	268.2	-0.71					273.4	-4.13				
289.6	-0.62	282.8	-0.67					288.6	-3.75				
304.8	-0.63	297.7	-0.67					303.6	-3.43				
320.0	-0.63	312.5	-0.67					321.3	-3.45				
335.3	-0.22	327.4	-0.27										
350.5	-0.25												
365.8	-0.28												
381.0	-0.36												

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

GULF MOBIL KILAGMIOTAK F-48

- WELL SPUNDED 4 2 72
- DRILLING FOR 268 DAYS TO A TOTAL DEPTH OF 4772 METERS
- DRILLING STOPPED 21 8 72
- WELL ABANDONED 12 10 72

N.B. CALIPER SURVEY RUN DAY PREVIOUS TO LOG OF 15 09 74

FARTH PHYSICS BRANCH HOLE NO. 166 MOKKA A-02

LATITUDE 79 DEGREES 31.2 MINUTES NORTH LONGITUDE 87 DEGREES 1.2 MINUTES WEST
ELEVATION 253 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DEPTH (M)	DATE	DATE	DATE	DATE
	14 4 73	23 5 74	13 5 75	8 5 76
0.0	-2.80			
15.2	-4.40			-14.20
30.5	-6.10	-12.90	-13.10	-14.10
45.7	-7.80	-12.60	-13.10	-13.70
61.0	-7.80	-12.40	-13.10	-13.80
76.2	-7.20	-12.20	-12.40	-13.50
91.4	-6.70	-11.70		-13.20
106.7	-6.10	-11.20	-11.80	-12.70
121.9		-10.40	-11.00	-11.70
137.2		-9.70		-10.60
152.4	-6.10	-9.10	-9.60	-10.40
167.6	-5.60	-8.90	-9.40	-9.80
182.9	-6.70	-8.10	-8.90	-9.40
198.1	-5.60	-7.60	-8.20	-8.80
213.4	-5.60	-7.30	-7.90	-8.50
228.6	-6.70	-6.90	-7.50	-8.10
243.8	-6.70	-6.30	-7.40	-7.50
259.1	-5.00	-5.90	-6.70	-6.40
274.3	-5.00	-5.90	-6.20	
289.6	-4.40	-5.50	-5.40	-5.90
320.0	-5.60	-4.60	-4.40	-4.60
350.5	-3.90	-3.70	-4.40	-3.70
381.0	-4.40	-2.50	-3.30	-2.80
411.5	-3.90	-1.70	-2.20	-2.80
442.0	-3.90	-1.00	-1.20	-1.90

TEMPERATURE RESULTS ARE OBTAINED FROM A MULTI-THERMISTOR CARBON FIBER.
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS WIRE

IMPERIAL PANARCTIC ET AL MOKKA A-02
-WELL SPUNDED 17 10 72
-CRILLING FOR 17C DAYS TO A TOTAL DEPTH OF 3300 METERS
-DRILLING STOPPED 5 4 73
-WELL ABANDONED 15 4 73

N.B. CABLE INSTALLED ON OUTSIDE OF CASING BY IMPERIAL OIL.
READING OF 14 04 72 BY I.O.E. READINGS THEREAFTER BY E.P.B.

EARTH PHYSICS BRANCH HOLE NO. 167 UNIPKAT I-22

LATITUDE 69 DEGREES 11.7 MINUTES NORTH LONGITUDE 135 DEGREES 20.5 MINUTES WEST
ELEVATION 5 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 1 4 73	DATE OF LOG 25 4 73	DATE OF LOG 20 6 73	DATE OF LOG 3 11 73	DATE OF LOG 4 2 74	DATE OF LOG 16 8 74	DATE OF LOG 22 7 75	DATE OF LOG 27 4 76
DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
15.2	-1.19	15.2	-1.90	14.9	-0.70	15.2	-2.22
30.5	.72	30.5	-0.70	30.1	-0.31	30.5	-1.33
45.7	2.65	45.7	1.00	59.5	1.56	45.7	-1.33
61.0	4.59	61.0	2.40	89.3	3.74	61.0	-0.83
76.2	6.18	76.2	4.10	119.1	5.35	76.2	.44
91.4	6.93	91.4	5.10	148.8	6.42	91.4	1.39
106.7	8.14	106.7	5.90	178.6	7.56	106.7	1.94
121.9	8.87	121.9	6.80	208.4	8.93	121.9	2.78
137.2	8.94	137.2	7.00	238.1	9.78	137.2	3.33
152.4	9.88	152.4	7.80	267.9	10.66	152.4	4.06
162.9	10.83	167.6	8.40	297.7	11.16	167.6	4.78
213.4	11.87	182.9	8.80	327.4	11.69	182.9	5.33
243.8	12.50	198.1	9.60	357.2	12.33	198.1	6.22
274.3	13.45	213.4	9.90	387.2	13.32	213.4	6.83
304.8	13.72	228.6	10.40	416.7	13.79	228.6	7.22
335.3	14.21	243.8	10.70	446.5	14.27	243.8	7.70
365.8	15.03	259.1	11.20	476.3	14.91	259.1	8.06
396.2	15.76	274.3	11.50	506.3	15.62	274.3	8.61
426.7	16.15	289.6	11.80	535.8	16.15	289.6	8.89
457.2	16.66	304.8	12.00	565.6	17.08	304.8	9.22
						535.8	3.35
487.7	17.55			595.3	17.68	335.3	9.78
518.2	17.83			625.1	18.38	305.0	10.56
548.6	18.76			654.8	18.95	396.2	11.33
579.1	19.23			684.6	19.55	426.7	11.89
609.6	20.22			714.4	20.20	457.2	12.44
640.1	20.52					487.7	13.11
670.6	21.12					518.2	13.67
701.0	21.77					548.6	14.44
731.5	23.07					579.1	15.22
						609.6	16.00
						640.1	16.67
						670.6	17.22
						701.0	17.78
						731.5	18.61

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

SHELL UNIPKAT I-22
-WELL SPUCED 8 9 72
-DRILLING FOR 179 DAYS TO A TOTAL DEPTH OF 4361 METERS
-WELL ABANDONED 6 3 73

N.B. LOGS OF 25 4 73 AND 03 11 73 BY SHELL USING ATKINS THERMISTOR.

LATITUDE 74 DEGREES 39.0 MINUTES NORTH LONGITUDE 113 DEGREES 23.0 MINUTES WEST
 ELEVATION 240 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 28 4 73	DATE OF LOG 25 5 74	DATE OF LOG 7 5 75	DATE OF LOG 19 5 76
DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
20.7	-12.90	16.5	-13.41
44.5	-12.54	31.7	-14.19
95.1	-11.37	46.6	-14.13
141.0	-9.49	61.9	-13.80
177.6	-8.75	77.4	-13.43
212.0	-7.86	93.3	-13.10
243.7	-6.66	108.8	-12.62
276.4	-5.62	125.0	-11.82
307.3	-4.80	140.2	-11.25
338.2	-3.60	155.8	-10.85
369.1	-2.88	171.3	-10.54
399.6	-2.61	186.8	-10.19
430.1	-1.73	202.7	-9.86
460.6	-1.16	218.5	-9.48
491.0	-.72	236.5	-8.93
521.5	.03	253.3	-8.53
551.7	1.65	269.1	-8.00
582.5	2.93	284.7	-7.52
613.0	3.91	300.8	-7.26
643.4	4.97	316.7	-6.70
652.6	5.21	331.6	-6.21
		346.6	-5.63
		361.2	-5.27
		376.4	-5.10
		391.1	-4.78
		406.3	-4.48
		421.2	-4.17
		435.9	-3.62
		450.8	-3.25
		465.7	-3.01
		480.7	-2.64
		495.6	-2.25
		510.5	-1.78
		525.5	-1.31
		540.4	-.71
		555.3	-.04
		570.3	.59
		585.2	1.16
		600.2	1.81
		615.1	2.52
		630.0	3.13
		645.3	3.77
		659.9	3.86
		11.3	-14.66
		26.5	-14.17
		34.1	-14.29
		49.4	-14.31
		64.6	-14.01
		79.9	-13.61
		95.1	-13.25
		110.3	-12.75
		125.6	-12.01
		140.8	-11.53
		156.1	-11.06
		171.3	-10.72
		186.5	-10.39
		201.8	-10.06
		217.0	-9.74
		232.3	-9.29
		247.5	-8.89
		262.7	-8.43
		278.0	-7.89
		293.2	-7.58
		308.5	-7.22
		323.7	-6.67
		339.5	-6.08
		354.8	-5.61
		370.3	-5.38
		385.6	-5.16
		416.4	-4.58
		447.4	-3.63
		478.2	-3.00
		508.7	-2.10
		539.5	-1.24
		570.3	.18
		601.1	1.37
		631.9	2.65
		659.6	3.75
			15.8
			-14.79
			30.8
			-14.44
			45.7
			-14.41
			61.0
			-14.22
			76.2
			-13.85
			91.4
			-13.53
			107.0
			-13.07
			122.2
			-12.61
			137.5
			-11.78
			152.7
			-11.33
			167.6
			-10.99
			182.9
			-10.66
			198.1
			-10.33
			213.4
			-10.02
			228.6
			-9.64
			244.1
			-9.24
			259.1
			-8.86
			274.3
			-8.34
			289.6
			-7.87
			304.8
			-7.59
			320.3
			-7.15
			335.3
			-6.59
			350.5
			-6.09
			365.8
			-5.71
			381.0
			-5.47
			396.2
			-5.21
			411.5
			-4.92
			426.7
			-4.66
			442.0
			-4.18
			457.5
			-3.66
			472.4
			-3.42
			487.7
			-2.92
			503.2
			-2.50
			518.2
			-2.07
			533.7
			-1.46
			548.9
			-1.04
			564.2
			-.33
			579.1
			.21
			594.4
			.83
			609.9
			1.44
			625.1
			2.15
			640.4
			2.74
			655.3
			3.35
			658.4
			3.50

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
 FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

PANARCTIC DOME DUNDAS C-80

- WELL SPUNNER 14 10 72
- DRILLING FOR 97 DAYS TO A TOTAL DEPTH OF 4000 METERS
- WELL ABANDONED 19 1 73

EARTH PHYSICS BRANCH HOLE NO. 169 LOUISE BAY 0-25

LATITUDE 78 DEGREES 44.9 MINUTES NORTH LONGITUDE 102 DEGREES 42.0 MINUTES WEST
ELEVATION 69 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG		DATE OF LOG		DATE OF LOG	
11	5 73	21	5 74	14	5 76
DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
(M)	(C)	(M)	(C)	(M)	(C)
30.2	-9.85	29.9	-12.34	30.8	-13.13
61.4	-8.37	60.0	-10.57	61.0	-11.18
91.6	-6.72	89.9	-8.79	91.4	-9.40
122.5	-4.80	121.3	-6.92	121.9	-7.23
153.0	-3.18	153.6	-5.07	152.4	-5.51
183.6	-1.44	183.2	-3.31	182.9	-3.95
213.5	.29	213.4	-1.62	213.4	-2.23
244.3	2.15	242.9	.28	244.1	-1.02
274.9	3.83	273.1	2.20	274.3	1.56
305.7	5.60	303.0	3.86	304.8	3.48
336.0	7.32	332.5	5.74	335.3	5.38
366.5	9.09	362.7	7.38	365.8	7.20
397.0	10.69	392.6	9.34	396.5	9.07
427.6	12.31	422.5	10.77	426.7	10.66
458.1	14.03	452.0	12.49	457.5	12.41
488.7	15.77	481.9	14.31	488.0	14.25
519.2	17.64	511.8	16.36	518.2	16.25
549.7	19.88	541.9	18.54	548.6	18.55
580.3	21.96	571.5	20.78	579.1	20.66
610.8	23.87	601.7	22.88	609.6	22.89
641.4	26.35	631.2	25.30	640.1	25.38
672.2	28.63	661.1	27.71	670.6	27.69

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

PANARCTIC LOUISE BAY 0-25
-WELL SPUNOFF 23 11 72
-DRILLING FOR 65 DAYS TO A TOTAL DEPTH OF 2281 METERS
-WELL ABANDONED 27 1 73

EARTH PHYSICS BRANCH HOLE NO. 170 THOR P-38

LATITUDE 78 DEGREES 7.8 MINUTES NORTH

LONGITUDE 103 DEGREES 15.2 MINUTES WEST

ELEVATION 5 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 13 9 72	DATE OF LOG 11 5 73	DATE OF LOG 19 5 74	DATE OF LOG 15 5 75	DATE OF LOG 13 5 76			
DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)			
25.3	-14.72	15.0	-16.54	30.8	-15.92	30.5	-15.97
55.8	-13.72	30.8	-15.86	61.0	-15.61	61.3	-15.03
86.3	-12.67	45.8	-15.33	91.4	-13.96	91.4	-13.98
116.7	-11.78	61.1	-14.78	121.9	-12.89	121.9	-12.95
147.2	-10.29	76.4	-14.17	152.7	-10.99	152.7	-11.19
177.7	-8.39	91.6	-13.68	183.2	-9.58	182.9	-9.50
208.2	-6.78	106.9	-13.23	213.4	-7.68	213.4	-7.77
238.7	-5.33	122.2	-12.58	243.8	-5.84	243.8	-5.83
269.1	-3.44	137.4	-11.77	274.3	-3.60	274.6	-3.72
299.6	-1.56	152.7	-10.92	304.8	-1.73	305.1	-1.94
317.9	-.28	168.0	-10.06	335.3	.19	335.6	-.51
348.4	1.94	183.2	-9.22	366.1	2.01	350.5	.92
378.9	3.61	198.5	-8.37	396.5	3.66	366.1	2.02
394.1	4.44	213.8	-7.48	426.7	5.33	396.5	3.55
424.6	6.11	228.8	-6.65	457.5	6.83	426.7	5.26
455.1	7.78	244.6	-5.62	488.0	8.46	457.2	6.91
485.5	9.33	259.6	-4.51	518.2	9.80	487.7	8.40
500.8	10.11	274.9	-3.37	548.6	11.01	518.2	9.71
		270.0	-3.81	554.7	11.39	548.6	10.99
		290.1	-2.41	554.7	11.39	554.7	11.33
		305.4	-1.43	301.1	-1.85		
		320.4	-.47	315.8	-.85		
		336.0	.44	330.7	-.13		
		350.9	1.35	345.6	.94		
		366.5	2.23	360.6	1.81		
		381.8	3.05	375.5	2.65		
		397.0	3.88	390.4	3.39		
		412.3	4.63	405.4	4.13		
		427.6	5.45	420.6	4.91		
		442.8	6.27	435.3	5.82		
		458.4	7.08	450.5	6.59		
		473.1	7.80	465.1	7.38		
		488.7	8.56	481.3	8.16		
		503.9	9.29	495.0	8.83		
		519.2	9.91	509.9	9.50		
		534.5	10.51	525.5	10.11		
		549.7	11.18	542.5	10.95		
				555.3	11.36		

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

PANARCTIC TENNECO ET AL THOR P-38

- WELL SPUNDED 6 4 72
- DRILLING FOR 28 DAYS TO A TOTAL DEPTH OF 1829 METERS
- DRILLING STOPPED 4 5 72
- WELL ABANDONED 10 5 72

N.B. LOG OF 13 09 72 TAKEN BY PANARCTIC.
DEPTHS ADJUSTED FOR TOOL ERRORS AT 311 M. AND 411 M.

EARTH PHYSICS BRANCH HOLE NO. 172 DRAKE B-44

LATITUDE 76 DEGREES 23.1 MINUTES NORTH

LONGITUDE 108 DEGREES 16.1 MINUTES WEST

ELEVATION 4 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 7 5 73		DATE OF LOG 16 5 74		DATE OF LOG 6 5 75		DATE OF LOG 17 5 76	
DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
15.8	-14.23	15.2	-14.54	16.1	-14.54	30.8	-13.66
31.4	-13.32	35.4	-13.53	32.5	-13.55	53.3	-12.02
47.5	-12.04	53.3	-12.04	52.2	-12.34	76.5	-10.39
62.8	-11.61	70.4	-10.66	67.1	-11.19	99.1	-8.52
78.3	-9.63	86.6	-9.35	82.1	-9.84	121.9	-6.46
93.3	-8.35	102.1	-7.96	97.0	-8.48	144.8	-4.16
108.5	-6.86	117.0	-6.68	111.6	-7.02	167.6	-2.10
123.4	-5.57	132.0	-5.05	126.8	-5.56	190.5	.32
138.7	-3.68	146.9	-3.40	141.7	-4.04	213.4	1.94
153.6	-2.25	162.2	-1.92	156.4	-2.68	236.5	3.12
169.2	-.86	177.1	-.72	172.2	-1.25	259.1	4.27
184.7	.27	191.7	.49	186.2	-.04	289.6	5.69
199.9	1.60	207.0	1.66	201.1	1.54	313.3	6.85
215.2	2.34	221.9	2.44	216.0	2.26	335.3	7.67
230.4	3.16	236.8	3.22	231.3	3.04	341.4	8.19
245.7	3.94	251.5	3.94	245.9	3.89		
260.9	4.66	266.4	4.70	260.8	4.59		
275.8	5.51	281.3	5.50	275.7	5.37		
291.1	6.25	296.6	6.27	290.6	6.10		
306.3	6.89	311.5	6.93	305.6	6.73		
321.3	7.55	326.4	7.50	320.5	7.40		
336.5	8.06	341.1	8.00	335.1	7.91		
346.3	8.40			338.4	8.25		

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

PANARCTIC TENNECO ET AL DRAKE B-44

-WELL SPUNNED 23 9 72

-DRILLING FOR 29 DAYS TO A TOTAL DEPTH OF 1396 METERS

-WELL ABANDONED 22 10 72

UNCERTAINTY IN ABSOLUTE DEPTHS IN LOG OF 06 05 75. OMITTED FROM
LOGARITHM RETURN TO EQUILIBRIUM CALCULATIONS.

EARTH PHYSICS BRANCH HOLE NO. 173 NIGLINTGAK H-30

LATITUDE 69 DEGREES 19.4 MINUTES NORTH LONGITUDE 135 DEGREES 20.1 MINUTES WEST
ELEVATION 2 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 20 4 73		DATE OF LOG 19 6 73		DATE OF LOG 3 11 73		DATE OF LOG 4 2 74		DATE OF LOG 22 7 75		DATE OF LOG 28 4 76	
DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
13.4	3.30	14.9	-0.42	15.2	-1.44	29.0	-1.50	15.2	-2.21	15.2	-3.00
28.7	4.80	29.8	.06	30.5	-1.33	59.4	-1.07	30.5	-1.73	30.5	-2.05
43.9	3.50	44.7	-0.22	45.7	-1.33	89.9	-.85	45.7	-1.53	45.7	-1.78
59.1	3.80	59.8	-.39	61.0	-1.33	120.4	.04	61.0	-1.27	61.0	-1.42
74.4	4.70	74.4	-.01	76.2	-1.22	150.9	1.12	76.2	-.91	91.7	-.66
89.6	5.90	89.3	.87	91.4	-.89	181.4	2.33	91.4	-.63	122.2	-.02
104.9	7.10	104.2	2.28	106.7	-.44	211.8	2.83	106.7	-.20	152.4	.70
120.1	8.10	119.1	3.86	121.9	.56	242.3	3.36	121.9	.24	183.2	1.20
135.3	8.10	134.0	4.25	137.2	1.11	263.0	3.61	137.5	.64	213.7	1.73
150.6	8.00	148.8	4.26	152.4	1.39			152.4	.86	244.1	2.12
165.8	8.40	164.0	4.55	167.6	1.67			167.3	1.13	270.1	2.49
181.1	8.60	178.6	4.80	182.9	1.94			182.9	1.40		
196.3	8.70	193.5	5.03	198.1	2.22			198.1	1.65		
211.5	9.00	208.4	5.31	213.4	2.50			213.4	1.88		
226.6	9.40	223.2	5.70	228.6	2.78			226.5	2.07		
242.0	9.40	238.1	5.95	243.8	3.06			243.5	2.29		
257.3	9.80	253.0	6.04	259.1	3.33			259.1	2.68		
272.5	9.90	267.9	6.13	274.3	3.44			274.3	2.69		
287.7	9.80	282.8	6.12								
		297.7	6.12								

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

SHELL NIGLINTGAK H-30

- WELL SPUNDED 24 10 72
- DRILLING FOR 165 DAYS TO A TOTAL DEPTH OF 2377 METERS
- WELL ABANDONED 7 4 73

N.B. LOGS OF 20 4 73 AND 3 11 73 DONE BY SHELL USING ATKINS THERMISTOR.

EARTH PHYSICS BRANCH HOLE NO. 175 GEMINI E-10

LATITUDE 79 DEGREES 59.4 MINUTES NORTH LONGITUDE 84 DEGREES 4.2 MINUTES WEST
ELEVATION 126 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 30 4 73		DATE OF LOG 22 5 74		DATE OF LOG 12 5 75		DATE OF LOG 8 5 76		DATE OF LOG 18 5 77	
DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
34.4	-3.54	30.7	-14.99	33.8	-14.92	31.1	-15.84	30.8	-15.90
69.8	-7.78	60.1	-14.60	65.8	-15.02	61.0	-15.36	62.0	-15.43
101.5	-5.44	90.2	-13.83	96.3	-14.31	91.4	-14.68	92.2	-14.79
132.3	-3.58	120.2	-13.14	126.5	-13.29	122.2	-13.89	123.7	-13.95
162.8	-3.74	150.3	-11.41	157.0	-11.74	152.4	-12.24	154.2	-12.49
193.2	-1.61	180.4	-9.79	187.5	-10.18	182.9	-10.84	185.1	-10.89
223.4	-0.31	210.4	-7.98	217.9	-8.41	213.4	-9.10	216.2	-9.09
254.2	-0.43	240.5	-7.36	248.7	-7.49	243.8	-7.87	246.8	-7.98
284.7	.79	263.0	-6.32	278.9	-6.13	274.6	-6.71	277.9	-6.65
315.2	-.06	285.6	-5.22	309.4	-5.08	304.8	-5.31	308.5	-5.41
345.6	.11	308.1	-4.48	339.5	-4.14	335.6	-4.55	339.3	-4.54
376.4	-.07	331.0	-4.09	370.6	-3.17	365.8	-3.64	370.1	-3.55
406.9	.24	353.2	-3.15	401.1	-2.17	396.2	-2.88	401.0	-2.72
436.8	1.48	375.7	-2.26	431.6	-1.06	427.0	-1.97	431.8	-1.61
467.9	4.75	398.3	-1.51	461.8	-.58	457.5	-.93	462.7	-.73
498.0	6.85	420.8	-.77	492.3	.50	487.7	-.38	493.5	-.28
528.2	8.27	443.7	-.41	522.7	1.57	518.2	1.68	509.0	.11
559.0	9.79	465.9	-.33	553.2	3.78	548.9	3.34	524.4	.74
589.5	11.59	488.5	1.00	584.0	5.67	579.1	5.07	555.2	3.42
620.3	12.96	511.3	2.06	614.2	7.28	609.6	6.65	586.1	5.18
650.1	14.30	533.6	3.09	644.7	8.79	640.4	8.53	616.9	6.88
680.6	15.79	556.4	4.32	675.1	10.43	670.6	9.81	648.1	8.62
711.4	16.66	578.9	5.64	705.9	11.70	701.0	11.33	678.3	10.02
741.9	17.61	601.2	6.82	736.1	12.84	731.5	12.40	709.1	11.38
772.4	18.79	624.0	8.04	766.6	14.13	762.0	13.72		
802.5	19.75	646.3	9.24	797.1	15.44	792.8	14.95		
		668.8	10.39	827.5	16.66	823.0	16.15		
		691.3	11.38	858.0	18.23	853.4	17.71		
		713.9	12.26						
		736.5	13.05						
		759.0	14.01						
		781.5	14.86						
		804.1	15.87						
		826.6	16.66						
		849.2	17.83						
		871.7	18.97						

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

PANARCTIC GEMINI E-10
-WELL SPUDDED 14 10 72
-DRILLING FOR 145 CAIS TO A TOTAL DEPTH OF 3845 METERS
-DRILLING STOPPED 8 3 73
-WELL ABANDONED 15 3 73

EARTH PHYSICS BRANCH HOLE NO. 176 YA YA P-53

LATITUDE 69 DEGREES 12.8 MINUTES NORTH LONGITUDE 134 DEGREES 42.7 MINUTES WEST
ELEVATION 36 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 19 6 73		DATE OF LOG 4 2 74		DATE OF LOG 16 8 74		DATE OF LOG 24 7 75		DATE OF LOG 25 4 76		DATE OF LOG 16 3 77	
DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
14.9	-5.40	32.3	-6.77	13.7	-7.18	14.0	-7.75	15.5	-8.35	30.8	-7.45
29.8	-5.08	62.8	-5.91	28.7	-6.86	29.3	-7.14	30.8	-7.44	61.0	-6.65
59.6	-4.04	93.3	-5.31	58.5	-6.25	59.7	-6.52	45.7	-6.84	91.7	-5.96
89.5	-3.45	123.7	-4.44	88.4	-5.71	90.2	-5.94	61.0	-6.54	122.2	-5.16
119.3	-1.46	154.2	-3.98	118.3	-4.93	120.7	-5.15	91.4	-5.95	152.4	-4.59
149.4	-1.63	185.0	-3.58	148.4	-4.34	151.2	-4.53	121.9	-5.25	183.2	-4.14
178.9	-.67	215.5	-3.01	178.3	-3.95	181.7	-4.05	152.7	-4.60	213.4	-3.67
208.8	-.64	246.0	-2.30	208.2	-3.51	212.1	-3.63	182.9	-4.19	244.8	-3.13
238.6	-.52	276.5	-1.96	237.7	-3.02	242.6	-3.19	213.4	-3.76	274.6	-2.64
268.4	-.41	306.9	-1.25	267.6	-2.42	273.1	-2.60	243.8	-3.28	304.8	-2.27
298.2	-.39	337.4	-1.01	297.5	-2.01	303.9	-2.23	274.3	-2.72	335.3	-1.84
328.1	-.43	367.9	-.71	327.7	-1.58	334.7	-1.76	304.8	-2.35	366.1	-1.30
357.9	-.47	398.7	-.40	357.2	-1.05	365.2	-1.30	335.0	-1.98	397.5	-.70
387.7	-.58	429.2	.58	387.1	-.76	395.6	-1.01	365.8	-1.50	426.7	.07
417.5	1.18			417.0	-.02	426.4	.05	395.9	-.93	457.2	.99
447.4	2.13			446.8	.85	457.2	.93	426.7	-.53	487.7	1.82
477.2	2.81			476.7	1.66	487.4	1.72	457.2	.67	518.2	2.60
507.0	3.58			506.6	2.44	518.2	2.50	487.7	1.47		
536.8	4.32			530.0	3.04	548.6	3.32				
566.7	4.73					579.1	4.14				
						601.7	4.97				

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

GULF MCBIL YA YA P-53
-WELL SPUCED 8 12 72
-CRILLING FOR 102 DAYS TO A TOTAL DEPTH OF 3033 METERS
-WELL ABANDONED 20 3 73

EARTH PHYSICS BRANCH HOLE NO. 179 REINDEER F-36

LATITUDE 69 DEGREES 5.3 MINUTES NORTH LONGITUDE 134 DEGREES 39.0 MINUTES WEST
ELEVATION 10 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 20 6 73		DATE OF LOG 3 2 74		DATE OF LOG 14 8 74		DATE OF LOG 24 7 75		DATE OF LOG 20 4 76		DATE OF LOG 16 3 77	
DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
15.0	-1.28	21.9	-5.81	14.0	-6.51	14.9	-6.98	15.2	-8.20	30.8	-7.76
30.0	-.81	37.2	-5.58	29.0	-6.12	29.9	-6.48	30.8	-6.95	61.3	-6.46
45.0	-.40	67.7	-5.73	58.8	-6.07	60.4	-6.28	45.7	-6.57	91.7	-6.19
60.0	-.72	98.1	-5.22	89.0	-5.87	91.1	-6.08	61.0	-6.36	121.9	-5.88
75.0	-.43	128.6	-4.88	118.6	-5.55	121.3	-5.78	91.4	-6.13	152.4	-5.28
90.0	-.28	159.1	-4.19	148.4	-4.97	151.8	-5.08	121.9	-5.82	182.9	-4.37
105.0	-.13	189.6	-3.20	178.3	-4.22	182.0	-4.23	152.7	-5.26	213.4	-3.22
120.0	-.92	220.1	-2.27	208.2	-3.16	212.8	-3.12	182.9	-4.35	243.8	-2.50
135.0	-.44	250.5	-1.76	238.0	-2.33	243.2	-2.38	213.4	-3.42	274.6	-1.86
150.0	-.34	281.3	-.97	267.9	-1.78	273.7	-1.80	243.8	-2.54	305.4	-1.18
165.0	-.42	311.8	-.53	297.8	-1.07	303.9	-1.01	274.3	-1.94	335.9	-.57
180.0	-.40	327.1	-.43	327.7	-.47	335.0	-.44	304.8	-1.32	345.6	-.17
195.0	-.59	342.3	.21	347.6	.05	354.8	-.07	335.3	-.58		
210.0	-.68							350.5	-.21		
225.0	-.23										
240.0	-.19										
255.0	-.24										
270.0	-.25										
285.0	-.21										
300.0	-.07										
315.0	-.13										
330.0	-.00										
345.0	2.12										

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

GULF IMPERIAL SHELL REINDEER F-36

- WELL SPUCED 13 3 73
- CRILLING FOR 54 DAYS TO A TOTAL DEPTH OF 1829 METERS
- CRILLING STOPPED 6 5 73
- WELL ABANDONED 15 5 73

EARTH PHYSICS BRANCH HOLE NO. 192 KUGPIK 0-13

LATITUDE 68 DEGREES 52.8 MINUTES NORTH LONGITUDE 135 DEGREES 18.2 MINUTES WEST
ELEVATION 2 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

SHELL KUGPIK O-13
-WELL SPUCDED 26 3 73
-DRILLING FOR 188 DAYS TO A TOTAL DEPTH OF 3689 METERS
-DRILLING STOPPED 30 9 73

N.B. LOG OF 04 11 73 BY SHELL USING ATKINS BRIDGE.

EARTH PHYSICS BRANCH HOLE NO. 193 IKHIL I-37

LATITUDE 68 DEGREES 46.6 MINUTES NORTH LONGITUDE 134 DEGREES 7.8 MINUTES WEST
ELEVATION 125 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 19 12 73		DATE OF LOG 3 2 74		DATE OF LOG 15 8 74		DATE OF LOG 23 7 75		DATE OF LOG 18 3 77	
DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
0.0	5.60	12.2	-7.65	10.4	3.99	15.2	-1.08	61.0	-9.61
30.5	3.90	27.4	-7.32	25.9	.35	30.5	-1.54	91.7	-5.89
61.0	.60	57.9	-2.15	55.2	-4.19	51.0	-5.09	121.9	-4.81
91.4	.60	89.0	-.45	85.0	-3.53	91.4	-4.76	152.4	-4.06
121.9	.60	119.5	-.10	115.2	-3.47	121.9	-4.37	182.9	-3.31
152.4	.60	150.0	-.12	144.8	-2.14	152.4	-3.28	213.4	-2.39
182.9	1.10	180.4	-.04	174.3	-.46	182.9	-2.23	243.8	-1.75
213.4	1.73	211.2	-.02	204.5	-.23	213.4	-1.21	274.3	-.98
243.8	2.20	241.7	-.01	234.7	-.28	243.8	-.60	304.8	-.40
274.3	3.30	272.2	.53	264.3	-.25	274.3	-.41	335.6	-.14
304.8	2.80	303.0	.07	293.8	-.16	304.8	-.17	365.8	.84
335.3	2.80	318.2	.63	324.6	-.04	335.3	-.04	396.2	1.77
365.8	7.51	333.8	.24	353.6	1.73	366.1	1.24	426.4	3.22
396.2	8.30	349.0	3.87	383.7	3.07	396.9	2.18	457.2	4.11
426.7	10.00	364.5	4.71	413.3	4.54	427.3	3.66	487.7	5.11
457.2	10.60	395.0	5.81	443.2	5.45	457.8	4.62		
487.7	11.70	425.5	7.69	472.7	6.27	488.6	5.56		
518.2	12.80	456.0	8.09	502.9	7.02	519.4	6.40		
548.6	13.30	486.5	9.15	532.8	8.05	549.9	7.66		
		516.9	9.98			580.6	8.75		
						610.8	9.76		

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

GULF MCBIL IKHIL I-37

-WELL SPUNDED 10 4 73
-DRILLING FOR 237 DAYS TO A TOTAL DEPTH OF 4704 METERS
-WELL ABANDONED 3 12 73

N.B. LOG OF 19 12 73 BY GULF USING E.P.B. CABLE AND PROBE WITH ATKINS BRIDGE.
ABSOLUTE VALUE OF READINGS FOR THIS LOG UNCERTAIN.

EARTH PHYSICS BRANCH HOLE NO. 195 LINCKENS ISLAND P-46

LATITUDE 77 DEGREES 45.6 MINUTES NORTH

LONGITUDE 97 DEGREES 45.4 MINUTES WEST

ELEVATION 0.3 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE DATE
21 5 74 17 5 77

DEPTH (M)	TEMP (C)	TEMP (C)
30.5	-13.51	-15.16
45.7	-11.92	-12.60
61.0	-10.93	-11.40
76.2	-10.09	-10.49
91.4	-9.58	-9.95
106.7	-8.63	-9.05
121.9	-7.73	-8.23
137.2	-6.29	-6.82
152.4	-5.08	-5.61
167.6	-3.36	-4.12
182.9	-2.63	-3.33
198.1	-1.71	-2.15
213.4	-.98	-1.46
228.6	-.43	-.87
243.8	.41	-.15
259.1	1.07	.52
274.3	1.74	1.08
289.6	2.03	1.38
304.8	2.69	2.02
335.3	3.61	2.94
365.8	4.18	3.69
396.2	4.67	4.26
426.7	5.26	4.82
457.2	5.79	5.35
487.7	6.32	5.90
518.2	7.00	6.63

TEMPERATURE RESULTS ARE OBTAINED FROM A MULTI-THERMISTOR CABLE
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

SUN GULF GLOBAL LINCKENS ISLAND P-46

-WELL SPUCED 6 3 73
-DRILLING FOR 67 DAYS TO A TOTAL DEPTH OF 1832 METERS
-WELL ABANDONED 12 5 73

LOCATED ON SHOAL, COLLAR ELEVATION 0.3 M.

EARTH PHYSICS BRANCH HOLE NO. 196 BENT HORN N-72

LATITUDE 76 DEGREES 21.8 MINUTES NORTH LONGITUDE 103 DEGREES 58.2 MINUTES WEST
ELEVATION 63 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG							
17	5 74	6	5 75	15	5 76	17	5 77
DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
32.0	-13.11	29.8	-15.44	30.5	-15.59	30.7	-15.84
61.9	-12.50	59.4	-15.04	61.3	-15.31	61.8	-15.42
92.0	-11.81	89.5	-14.33	91.7	-14.65	92.2	-14.69
122.8	-11.12	120.0	-13.62	122.2	-13.87	122.9	-13.97
153.3	-10.29	150.7	-12.74	152.4	-13.24	153.6	-13.17
184.7	-9.31	181.1	-11.73	182.9	-12.09	184.3	-12.14
215.1	-8.65	211.0	-11.06	213.7	-11.46	215.1	-11.38
246.0	-7.31	240.5	-9.90	244.1	-10.35	245.5	-10.27
277.1	-6.46	270.4	-8.88	274.3	-9.27	276.5	-9.17
307.2	-5.63	300.2	-8.01	304.8	-8.32	307.5	-8.27
336.8	-4.90	330.0	-7.19	335.3	-7.65	338.0	-7.46
366.7	-4.22	359.9	-6.49	366.1	-6.76	368.7	-6.73
396.5	-3.34	389.7	-5.77	396.2	-6.20	399.7	-6.05
426.4	-2.56	419.6	-5.19	427.0	-5.49	430.1	-5.40
456.3	-1.55	449.4	-4.60	457.2	-4.84	461.2	-4.81
486.2	-1.51	479.2	-3.86	480.1	-4.39	491.6	-4.09
501.1	-1.51	509.1	-3.25	503.2	-3.80	522.3	-3.45
509.0	-1.25	538.9	-2.72	526.1	-3.38	553.0	-2.92
516.0	-1.11	568.8	-2.20	548.6	-3.01	584.1	-2.44
523.6	-1.04	598.6	-1.70	571.8	-2.64	599.1	-2.20
531.6	-1.00	613.8	-1.49	594.4	-2.28	614.8	-1.97
538.6	-.97	628.4	-1.28	617.5	-1.93	630.1	-1.68
545.9	-.96	643.3	-1.08	640.4	-1.57	645.5	-1.45
568.8	-.90	658.3	-.97	662.9	-1.24	660.6	-1.22
575.8	-.82	673.2	-.69	686.1	-.96	675.9	-.96
590.7	-.73	688.1	-.26	708.7	-.51	691.3	-.50
605.6	-.65	703.0	.01	731.5	.08	707.3	-.26
620.6	-.65	718.3	.30	754.4	.82	722.0	.00
635.5	-.63	732.9	.68	777.2	1.48	737.1	.40
643.1	-.60	748.1	1.13	800.1	2.07	752.7	.87
650.4	-.67	762.4	1.52	823.0	2.51	768.4	1.33
658.4	-.63	777.6	1.95	845.8	3.11	783.5	1.84
665.4	-.33	792.5	2.31	868.7	3.69	798.8	2.14
695.3	1.32	807.5	2.66			814.2	2.44
710.2	1.50	822.4	3.32			829.9	2.73
725.1	1.87	837.3	3.56			844.9	3.24
755.0	2.74	852.2	3.75			860.0	3.64
785.2	3.49						
814.7	4.10						
844.6	4.94						

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

PANARCTIC TENNECO ET AL BENT HORN N-72

-HELI SPUDGER 34 11 73

-DRILLING FOR 133 DAYS TO A TOTAL DEPTH OF 4383 METERS

-HILL ABANDONED 6 " 76

LATITUDE 80 DEGREES 44.6 MINUTES NORTH LONGITUDE 83 DEGREES 4.8 MINUTES WEST
 ELEVATION 497 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 23 5 74	DATE OF LOG 11 5 75	DATE OF LOG 8 5 76	DATE OF LOG 18 5 77				
DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
29.6	-2.75	29.6	-8.37	15.5	-8.26	30.7	-8.61
44.8	-3.47	60.7	-8.62	31.1	-8.59	61.1	-8.88
59.8	-4.08	90.8	-8.63	61.3	-8.79	93.1	-8.84
74.7	-3.74	121.3	-8.51	92.0	-8.80	122.9	-8.68
89.9	-3.77	151.8	-8.11	122.2	-8.66	153.6	-8.29
104.9	-4.39	182.3	-7.70	152.7	-8.27	184.3	-7.36
119.8	-3.87	213.4	-7.24	183.5	-7.85	215.4	-7.40
134.8	-3.93	243.2	-6.70	213.7	-7.40	245.8	-6.86
149.4	-3.48	273.7	-5.94	244.1	-6.91	276.5	-6.12
164.7	-3.06	304.2	-5.29	274.9	-6.18	317.5	-5.49
179.3	-2.87	335.0	-4.68	305.1	-5.54	338.3	-4.91
194.5	-3.07	365.5	-4.18	335.6	-4.96	368.7	-4.29
209.5	-2.67	396.5	-3.18	366.1	-4.39	399.4	-3.36
224.1	-2.11	426.1	-2.21	396.9	-3.55	431.4	-2.43
239.1	-2.13	441.4	-1.90	427.3	-2.53	461.2	-1.75
254.0	-0.82	456.6	-1.57	457.8	-2.02	476.5	-1.48
269.0	.34	472.1	-1.23	488.0	-1.48	491.6	-1.15
283.9	.16	487.1	-.96	518.8	-.47	516.9	-.75
298.8	.25	502.6	-.70	549.3	.11	522.3	.37
313.8	.09	517.9	-.38	579.4	.64	538.0	.11
329.0	.44	532.8	-.09	609.9	1.39	553.0	.17
343.7	.10	548.0	.28	640.4	2.73	568.4	.43
351.4	.23	563.6	.57	670.9	3.25	599.1	1.06
358.6	.20	578.5	.84	701.7	4.15	629.8	2.00
363.4	.05	593.8	1.16	732.1	5.04	660.6	2.90
368.1	.27	609.0	1.60			691.3	3.87
372.3	.57	624.2	2.09				
376.5	.76	639.8	2.58				
381.0	.50	655.0	2.95				
388.5	.81	670.0	3.46				
396.2	.75	685.2	3.89				
403.7	1.55	700.4	4.33				
418.3	2.29	715.7	4.75				
432.4	.17	731.2	5.24				
448.2	1.78						
463.5	.54						
478.1	.91						
493.0	2.87						
508.0	3.59						
523.3	2.66						
537.9	3.76						
552.8	4.14						
567.8	4.36						
598.0	5.23						
627.8	6.36						
657.4	7.06						
687.3	7.86						
717.2	9.04						
747.1	8.97						
776.9	10.17						

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
 FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

GULF HC ET AL NEIL 0-15
 -WELL SPUDDED 17 3 74
 -DRILLING FOR 51 DAYS TO A TOTAL DEPTH OF 2448 METERS
 -WELL ABANDONED 7 5 74

EARTH PHYSICS BRANCH HOLE NO. 199 DRAKE E-78

LATITUDE 76 DEGREES 27.3 MINUTES NORTH LONGITUDE 103 DEGREES 29.4 MINUTES WEST
ELEVATION 2 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 5 8' 74		DATE OF LOG 6 5 75		DATE OF LOG 17 5 76		DATE OF LOG 17 5 77	
DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
13.7	-12.78	17.0	-13.60	23.2	-13.23	32.0	-12.32
29.0	-11.59	31.6	-12.19	45.4	-11.45	52.5	-10.11
43.6	-10.53	46.8	-11.36	68.6	-9.75	93.2	-7.45
58.5	-9.44	65.6	-9.53	91.4	-7.76	108.6	-6.03
73.4	-8.05	80.5	-7.92	114.4	-5.75	124.1	-4.50
88.4	-6.68	95.4	-6.50	137.1	-3.84	139.3	-3.06
103.2	-5.36	109.7	-5.24	159.6	-1.12	154.5	-1.47
118.4	-4.09	125.1	-3.63	182.1	.92	169.7	-.31
132.8	-2.69	139.8	-2.20	204.5	2.68	184.8	1.15
147.6	-1.46	154.2	-.92	226.8	3.97	199.6	2.31
162.3	-.23	168.6	.37	249.1	5.03	214.9	3.48
177.3	1.10	183.9	1.65	271.9	6.11	23.0	4.16
191.6	2.31	198.5	2.88	273.8	6.31	244.0	4.88
206.3	3.40	213.1	3.70			259.6	5.59
220.9	4.17	227.3	4.41			274.4	6.25
235.4	4.82	241.8	5.14			277.4	6.29
249.9	5.57	256.3	5.73				
264.4	6.10	271.0	6.39				
273.8	6.72						

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

PANARCTIC PCR HOMESTEAD DRAKE E-78

- WELL SPUNDED 2 5 74
- DRILLING FOR 16 DAYS TO A TOTAL DEPTH OF 1356 METERS
- DRILLING STOPPED 18 5 74
- WELL ABANDONED 27 5 74

WELL WAS DIRECTIONALLY DRILLED. TRUE VERTICAL TOTAL DEPTH = 1221 M.
LENGTH OF HOLE = 1356 M. DEPTHS IN TABLES HAVE BEEN CORRECTED TO VERTICAL.

EARTH PHYSICS BRANCH HOLE NO. 200 HECLA I-69

LATITUDE 76 DEGREES 18.7 MINUTES NORTH

LONGITUDE 110 DEGREES 23.3 MINUTES WEST

ELEVATION 2 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 5 8 74	DATE OF LOG 6 5 75	DATE OF LOG 17 5 76	DATE OF LOG 17 5 77
DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
13.4	-14.71	18.3	-14.69
28.3	-13.61	33.5	-13.29
43.3	-11.51	48.5	-10.67
58.2	-9.04	64.0	-8.32
73.1	-7.16	78.9	-6.69
88.0	-5.59	94.1	-5.00
103.2	-3.69	109.3	-3.09
117.8	-2.09	124.5	-1.51
132.7	-.60	139.6	.16
147.8	.89	155.0	1.44
162.0	1.99	169.8	2.49
177.2	2.95	199.9	4.23
191.5	3.77	229.1	5.78
206.1	4.50	258.4	7.39
220.6	5.33	287.7	8.74
235.0	6.10	316.2	9.91
249.7	6.92	344.9	10.99
263.7	7.65	373.4	11.72
277.9	8.34	401.4	12.38
292.1	8.80	429.0	13.05
306.4	9.47	456.1	14.16
320.5	10.02	482.6	14.82
334.4	10.58	514.7	15.49
348.3	11.06		
361.9	11.45		
375.6	11.80		
389.2	12.11		
402.8	12.44		
416.2	12.72		
429.9	13.03		
		31.4	-13.36
		61.3	-9.16
		91.7	-5.47
		121.7	-2.27
		152.3	1.01
		182.3	3.10
		212.0	4.72
		241.2	6.29
		270.6	7.86
		299.3	9.09
		327.9	10.23
		356.2	11.22
		384.5	11.92
		411.8	12.53
		438.9	13.19
		465.7	14.37
		491.5	14.94
		516.8	15.45
		541.5	16.18
		565.8	16.73
		589.0	17.10
		612.2	17.44
		635.3	17.82
		658.2	18.24
			30.9 -13.37
			62.1 -8.87
			93.0 -5.43
			123.4 -2.04
			158.5 -.45
			154.7 1.28
			184.2 3.24
			214.3 4.83
			245.0 6.53
			274.0 8.13
			303.6 9.29
			332.3 10.49
			360.9 11.39
			389.2 12.10
			417.4 12.72
			444.5 13.40
			471.1 14.55
			497.6 15.07
			523.1 15.67
			547.9 16.41
			572.2 16.87
			595.9 17.25
			619.4 17.60
			642.7 17.98
			665.9 18.48
			689.2 18.87

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

PANARCTIC TENNECO ET AL HECLA I-69

- WELL SPUNOEE 22 2 73
- DRILLING FOR 66 DAYS TO A TOTAL DEPTH OF 1457 METERS
- DRILLING STOPPED 29 4 73
- WELL ABANDONED 9 5 73

WELL WAS DIRECTIONALLY DRILLED. TRUE VERTICAL TOTAL DEPTH = 1224 M.
LENGTH OF HOLE = 1457 M. DEPTHS IN TABLES HAVE BEEN CORRECTED TO VERTICAL.

EARTH PHYSICS BRANCH HOLE NO. 253 TEDJI LAKE K-24

LATITUDE 67 DEGREES 43.6 MINUTES NORTH LONGITUDE 126 DEGREES 49.9 MINUTES WEST
ELEVATION 343 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG DATE OF LOG
17 8 74 30 4 76

DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
11.9	.01	61.0	-2.10
26.8	.02	91.7	-1.90
58.5	-1.53	121.9	-1.79
86.6	-.98	152.4	-1.57
116.4	-1.36	182.9	-1.45
146.0	-.85	213.4	-1.31
175.9	-1.04	243.8	-1.16
206.0	-.95	274.3	-.99
235.6	-.77	304.8	-.86
266.1	-.26	335.3	-.75
295.7	-.63	365.5	-.56
325.5	-.45	396.2	-.45
355.1	-.40	427.0	-.23
385.0	-.37	457.2	.03
414.5	-.01	487.7	.22
444.1	.32		
474.0	.47		
503.8	.66		
534.0	.96		

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

ASHLAND ET AL TEDJI LAKE K-24

-WELL SPUNDED 13 2 74
-DRILLING FOR 46 DAYS TO A TOTAL DEPTH OF 1213 METERS
-WELL ABANDONED 31 3 74

EARTH PHYSICS BRANCH HOLE NO. 254 YA YA A-28

LATITUDE 69 DEGREES 17.2 MINUTES NORTH

LONGITUDE 134 DEGREES 35.5 MINUTES WEST

ELEVATION 40 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 16 8 74		DATE OF LOG 25 7 75		DATE OF LOG 29 4 76		DATE OF LOG 18 3 77	
DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
56.7	-.37	27.4	-2.34	61.3	-6.86	61.0	-9.07
86.9	-.44	57.9	-6.51	76.5	-6.79	91.7	-7.14
116.7	-.51	88.4	-6.43	91.4	-6.71	121.9	-6.30
146.6	-1.08	119.2	-5.64	121.9	-6.25	152.4	-5.55
176.2	-1.04	149.7	-3.52	152.7	-5.18	182.9	-5.01
206.0	-1.03	180.1	-3.14	182.9	-4.47	213.4	-4.93
235.9	-1.06	210.6	-3.82	213.7	-4.63	243.8	-4.42
265.8	-1.12	241.1	-2.99	243.8	-4.19	274.3	-4.05
295.7	-1.05	271.9	-2.76	274.6	-3.85	304.8	-3.46
325.5	-.91	302.1	-1.61	304.8	-2.67	335.3	-3.33
355.1	-.84	333.1	-2.34	335.3	-3.26	353.6	-3.06
384.7	-.88	363.6	-2.31	353.9	-2.92		
414.5	-.71	394.4	-1.97				
444.4	-.55	425.2	-1.49				
474.3	-.51	456.0	-1.02				
503.8	-.46	486.8	-.88				
533.7	-.43	517.6	-.85				
		548.6	-.65				
		579.4	-.65				
		601.1	-.47				

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

GULF MCBIL YA YA A-28

-WELL SPUNDED 28 2 74

-DRILLING FOR 98 DAYS TO A TOTAL DEPTH OF 3944 METERS

-WELL ABANDONED 6 7 74

EARTH PHYSICS BRANCH HOLE NO. 256 SUTHERLAND 0-23

LATITUDE 77 DEGREES 42.9 MINUTES NORTH LONGITUDE 102 DEGREES 8.5 MINUTES WEST
ELEVATION 21 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG DATE OF LOG
14 5 75 14 5 76

DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
31.7	-12.90	30.8	-14.19
61.3	-11.94	61.0	-13.15
91.4	-10.99	91.4	-12.10
121.9	-9.15	121.9	-10.63
152.7	-6.76	152.4	-8.43
182.9	-4.88	182.9	-6.19
213.7	-2.83	213.7	-3.95
244.1	-1.21	244.1	-2.54
259.1	-.39	274.3	-1.30
274.6	.41	304.8	-.11
289.6	1.11	320.3	1.09
304.8	1.75	335.6	2.20
320.0	2.44	350.8	3.02
335.6	3.29	366.1	3.95
366.1	4.83	381.0	4.68
396.2	5.75	396.5	5.05
426.7	6.27	412.1	5.34
457.2	6.69	426.7	5.59
		442.0	5.83
		457.2	6.04
		472.4	6.16

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

DOME ARCTIC VENTURES SUTHERLAND 0-23

- WELL SPUNDED 27 3 73
- DRILLING FOR 464 DAYS TO A TOTAL DEPTH OF 4457 METERS
- DRILLING STOPPED 5 5 74
- WELL ABANDONED 5 5 74

EARTH PHYSICS BRANCH HOLE NO. 257 PEDDER POINT D-49

LATITUDE 75 DEGREES 38.2 MINUTES NORTH

LONGITUDE 110 DEGREES 48.3 MINUTES WEST

ELEVATION 101 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 8 5 75	DATE OF LOG 23 5 76	DATE OF LOG 18 5 77			
DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
18.3	-14.62	30.5	-14.72	30.8	-14.76
48.8	-13.71	53.3	-13.98	61.9	-13.57
79.6	-12.32	76.2	-12.85	92.4	-11.90
110.0	-10.63	99.1	-11.55	123.1	-10.55
140.2	-9.43	122.2	-10.55	153.6	-9.20
170.7	-7.59	145.1	-9.54	185.0	-7.02
201.2	-5.91	167.6	-8.23	215.8	-5.37
231.6	-4.08	190.8	-6.93	246.3	-3.68
262.1	-2.86	213.4	-5.78	277.4	-2.84
292.6	-1.86	236.5	-4.46	307.8	-1.36
323.1	-.54	259.4	-3.55	338.6	-.05
354.2	.83	282.2	-3.03	354.3	.60
384.7	2.06	304.8	-1.81	369.4	1.16
415.4	3.22	320.0	-.72	385.1	1.83
446.5	4.56	335.3	-.18	415.6	2.87
477.0	6.35	350.5	.27	446.7	4.36
507.8	7.84	373.7	1.28	477.5	5.66
538.6	9.28	396.2	2.22	508.0	7.63
551.1	9.97	419.4	3.07	538.7	9.09
		442.3	4.06	554.4	9.47
		464.8	5.19	584.9	9.90
		487.7	6.52		
		510.8	7.70		
		533.4	8.76		
		554.7	9.92		

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

PANARCTIC ET AL PEDDER POINT D-49

- WELL SPUDDED 12 10 74
- DRILLING FOR 30 DAYS TO A TOTAL DEPTH OF 1871 METERS
- DRILLING STOPPED 6 11 74
- WELL ABANDONED 10 11 74

EARTH PHYSICS BRANCH HOLE NO. 256 PAT BAY A-72

LATITUDE 77 DEGREES 21.0 MINUTES NORTH LONGITUDE 105 DEGREES 27.0 MINUTES WEST
ELEVATION 17 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG		DATE OF LOG		DATE OF LOG	
15	5 75	14	5 76	17	5 77
DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
(M)	(C)	(M)	(C)	(M)	(C)
30.8	-7.63	22.6	-15.36	15.8	-15.74
61.3	-2.14	45.4	-15.27	31.4	-15.73
91.7	-2.24	68.3	-14.73	47.2	-15.54
122.2	-2.07	91.1	-14.49	62.8	-15.21
152.7	-2.89	114.0	-14.13	79.3	-14.94
182.9	-1.92	136.9	-13.53	95.4	-14.68
213.7	.39	158.5	-12.98	110.7	-14.42
243.8	.15			126.2	-14.08
259.1	.74			142.1	-13.77
274.3	.95			157.3	-13.49
289.6	2.28			163.5	-13.35
304.8	4.03				
320.3	5.66				
335.3	5.49				
365.8	8.04				
396.2	9.99				
426.7	11.71				
457.2	13.46				
476.1	14.38				
487.7	14.46				

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

PANARCTIC TENNECO ET AL PAT BAY A-72

- WELL SPUNDED 28 2 75
- DRILLING FOR 63 DAYS TO A TOTAL DEPTH OF 3231 METERS
- DRILLING STOPPED 1 5 75
- WELL ABANDONED 4 5 75

EARTH PHYSICS BRANCH HOLE NO. 259 DRAKE D-73

LATITUDE 76 DEGREES 22.1 MINUTES NORTH

LONGITUDE 108 DEGREES 29.5 MINUTES WEST

ELEVATION 33 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG	DATE OF LOG
16 5 75	23 5 76

DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
32.0	-2.68	23.5	-15.38
64.6	-5.70	46.0	-14.71
98.1	-5.42	68.9	-13.82
130.1	-3.92	91.7	-12.68
161.5	-2.83	114.3	-11.29
192.0	-1.87	137.2	-10.15
222.5	-.21	160.0	-8.89
238.0	.92	183.2	-7.58
253.0	1.74	205.7	-6.02
268.5	2.94	228.9	-4.54
299.0	4.14	251.8	-3.00
329.2	5.46	274.3	-.97
359.7	6.89	297.5	.67
390.4	8.03	312.4	1.33
393.2	8.55	327.7	2.22
		342.9	3.00
		358.4	3.62
		373.4	4.64
		388.6	5.31

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATRE LOGS ARE EXPECTED FOR THIS HOLE

PANARCTIC TENNECO ET AL DRAKE D-73

- WELL SPUNDED 23 4 75
- DRILLING FOR 17 DAYS TO A TOTAL DEPTH OF 1361 METERS
- WELL ABANDONED 10 5 75

EARTH PHYSICS BRANCH HOLE NO. 260 RED FOX P-21

LATITUDE 69 DEGREES 10.8 MINUTES NORTH LONGITUDE 133 DEGREES 35.0 MINUTES WEST
ELEVATION 23 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG		DATE OF LOG		DATE OF LOG	
25	7 75	21	4 76	19	3 77
DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
15.5	-0.74	15.2	-5.54	15.2	-4.39
30.2	-0.61	30.8	-2.26	30.5	-3.35
61.0	-0.44	45.7	-4.27	61.0	-4.59
91.1	-0.19	61.0	-4.40	91.4	-4.01
122.2	-0.44	91.7	-3.29	121.9	-3.56
152.4	-0.77	121.9	-2.60	152.4	-2.94
182.6	-0.88	152.4	-2.35	182.9	-2.40
213.4	-0.90	182.9	-1.67	213.4	-2.47
244.1	-1.05	213.4	-1.67	243.8	-2.46
274.6	-0.80	244.1	-2.08	274.0	-2.15
305.1	-0.65	274.3	-1.65	304.8	-1.85
335.9	-0.53	304.8	-1.45	335.3	-1.71
366.7	-0.52	335.6	-1.38	366.1	-1.67
397.2	-0.44	366.1	-1.40	396.2	-1.31
411.8	-0.43	396.5	-1.00	417.6	-1.11
		418.2	-.84		

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

GULF MCCEIL CCME RED FOX P-21
-WELL SPUCED 23 2 75
-DRILLING FOR 76 DAYS TO A TOTAL DEPTH OF 4179 METERS
-DRILLING STOPPED 9 5 75
-WELL ABANDONED 9 5 75

EARTH PHYSICS BRANCH HOLE NO. 261 KIMIK D-29

LATITUDE 69 DEGREES 38.1 MINUTES NORTH LONGITUDE 132 DEGREES 22.2 MINUTES WEST
ELEVATION 10 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG		DATE OF LOG		DATE OF LOG	
27	7 75	22	4 76	21	3 77
DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
29.3	-8.11	30.5	-8.34	30.8	-8.85
45.1	-7.95	45.7	-8.02	61.3	-7.87
60.0	-7.79	61.0	-7.83	91.4	-7.59
90.5	-7.55	91.1	-7.61	121.9	-7.35
121.0	-7.21	121.6	-7.29		
151.5	-6.83	152.1	-6.91		
182.3	-6.42	182.9	-6.53		
212.8	-6.00	213.4	-6.09		
243.5	-5.60	243.8	-5.73		
274.3	-5.17	274.3	-5.29		
305.4	-4.76	304.8	-4.88		
335.9	-4.30	335.3	-4.49		
366.4	-3.77	365.5	-3.91		
397.0	-3.32	395.9	-3.50		
427.9	-2.91	427.3	-3.07		
459.0	-2.49	457.8	-2.67		
490.4	-2.12	487.4	-2.29		
521.5	-1.78				
552.3	-1.44				
563.1	-1.06				
602.9	-.92				

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

I.O.E. KIMIK D-29
-WELL SPUCDED 17 12 71
-DRILLING FOR 49 DAYS TO A TOTAL DEPTH OF 2658 METERS
-DRILLING STOPPED 4 2 72
-WELL ABANDONED 16 2 72

HOLE BLOCKED BELOW 184 M AT TIME OF 1977 LOG.

EARTH PHYSICS BRANCH HCLE NO. 262 ATERTAK E-41

LATITUDE 69 DEGREES 30.5 MINUTES NORTH LONGITUDE 132 DEGREES 42.1 MINUTES WEST
ELEVATION 12 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LCG	DATE OF LCG	DATE OF LOG
27 7 75	22 4 76	23 3 77
DEPTH (M)	DEPTH (M)	DEPTH (M)
29.0	30.5	30.8
43.9	45.7	61.3
59.4	61.0	91.7
74.7	91.1	122.2
89.9	121.9	152.7
120.7	152.4	183.5
151.2	182.9	213.7
181.4	213.4	243.8
211.8	243.8	274.3
242.3	274.3	304.8
273.1	304.5	335.3
303.9	335.3	365.8
334.4	365.8	396.2
365.8	396.2	426.7
396.5	426.7	457.2
427.6	457.5	487.7
458.7	487.7	
489.5		
520.3		
538.0		

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

IMPERIAL ATERTAK E-41

- WELL SPUCED 1 5 72
- CRILLING FOR 44 DAYS TO A TOTAL DEPTH OF 1984 METERS
- CRILLING STOPPED 14 6 72
- WELL ABANDONED 13 7 72

EARTH PHYSICS BRANCH HOLE NO. 264 PIKOLIK E-54

LATITUDE 69 DEGREES 23.2 MINUTES NORTH LONGITUDE 132 DEGREES 44.6 MINUTES WEST
ELEVATION 18 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG DATE OF LOG
28 7 75 23 3 77

DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
29.6	-7.51	30.5	-9.23
44.8	-7.32	60.7	-7.42
60.0	-7.11	91.4	-6.83
90.8	-6.77	121.6	-7.24
121.0	-6.38	152.7	-5.76
151.5	-5.68	182.9	-4.99
181.7	-4.86	213.1	-4.14
213.1	-4.13	244.1	-3.36
244.1	-3.26	274.3	-2.63
274.9	-2.54	304.8	-2.03
305.7	-1.90	335.3	-1.55
335.9	-1.44	365.8	-1.28
367.3	-1.01	396.5	-.60
399.0	-.52	426.7	-.14
430.1	-.17	457.2	.74
460.6	.81	487.7	1.64
491.6	1.66		
522.1	2.45		
526.7	2.59		

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

I.C.E. PIKOLIK E-54
-WELL SPUCED 11 12 71
-DRILLING FOR 55 DAYS TO A TOTAL DEPTH OF 3118 METERS
-DRILLING STOPPED 4 2 72
-WELL ABANDONED 15 2 72

EARTH PHYSICS BRANCH HOLE NO. 266 IVIK J-26

LATITUDE 69 DEGREES 35.7 MINUTES NORTH LONGITUDE 134 DEGREES 20.6 MINUTES WEST
ELEVATION 23 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 25 7 75	DATE OF LOG 1 5 76	DATE OF LOG 18 3 77			
DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
29.0	-7.84	45.7	-7.88	30.5	-9.39
44.2	-7.78	61.0	-7.83	61.0	-7.91
59.7	-7.76	76.2	-7.80	91.7	-7.74
74.7	-7.71	91.4	-7.69	122.2	-7.37
90.2	-7.57	121.9	-7.34	152.4	-6.76
105.2	-7.42	152.7	-6.74	183.2	-6.21
120.4	-7.21	182.9	-6.22	213.7	-5.43
135.3	-6.91	213.1	-5.58	244.1	-5.05
150.9	-6.56	244.1	-4.96	274.3	-4.81
166.1	-6.29	274.0	-4.83	292.6	-4.72
181.1	-6.08	293.2	-4.58		
196.9	-5.77				
212.1	-5.12				
227.4	-4.34				
242.6	-4.81				
257.9	-4.80				
273.1	-4.65				
287.4	-4.41				

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

IMPERIAL IVIK J-26

-WELL SPOODED 8 4 72
-DRILLING FOR 129 DAYS TO A TOTAL DEPTH OF 3648 METERS
-DRILLING STOPPED 15 8 72
-WELL ABANDONED 30 9 72

EARTH PHYSICS BRANCH HOLE NO. 267 TAGLU C-42

LATITUDE 69 DEGREES 21.0 MINUTES NORTH

LONGITUDE 134 DEGREES 56.6 MINUTES WEST

ELEVATION 2 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 26 7 75		DATE OF LOG 23 4 76		DATE OF LOG 7 7 76		DATE OF LOG 10 3 77	
DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
13.7	-.48	30.5	-5.85	15.2	-1.09	61.0	-.94
28.7	.67	45.7	-1.25	30.5	.35	92.0	-.50
59.1	-.79	61.0	-.96	45.7	-1.19	122.2	-.35
89.9	-.44	76.2	-.79	60.7	-.89	152.4	-.51
120.4	-.27	91.4	-.64	76.2	-.71	182.9	-.50
150.9	-.42	121.9	-.31	91.7	-.45	213.1	-.53
181.7	-.40	137.2	-.37	107.3	-.36	243.5	-.85
211.5	-.44	152.4	-.43	121.9	-.32	274.3	-.68
242.0	-.74	182.9	-.42	137.5	-.40	304.8	-.54
273.4	-.57	213.4	-.53	152.4	-.48	335.0	-.76
304.2	-.50	243.8	-.65	167.6	-.45	365.5	-.97
335.0	-.60	274.3	-.57	182.9	-.47	395.6	-.81
365.5	-.72	305.1	-.59	198.4	-.57	426.7	-.98
396.2	-.58	335.3	-.62	213.4	-.46	457.2	-1.00
427.0	-.75	365.8	-.80	228.3	-.49	487.7	-.92
457.8	-.85	396.2	-.71	243.5	-.81	518.2	-.92
487.7	-.83	426.4	-.79	259.1	-.63		
519.4	-.89	457.2	-.89	274.3	-.63		
549.9	-.61	487.7	-.86	289.3	-.68		
580.3	-.54			304.5	-.59		
				319.7	-.63		
				335.3	-.69		
				350.5	-.97		
				365.8	-.89		
				380.7	-.77		
				396.5	-.68		
				411.5	-.90		
				426.4	-.85		
				441.7	-.95		
				456.9	-.99		
				472.4	-.88		
				487.7	-.89		
				502.9	-.87		
				517.9	-.88		
				533.4	-.73		
				548.9	-.58		
				558.1	-.58		

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

I.C.E. TAGLU C-42

-WELL SPUDDED 30 4 72

-DRILLING FOR 128 DAYS TO A TOTAL DEPTH OF 6895 METERS

-DRILLING STOPPED 5 9 72

-WELL ABANDONED 18 11 72

EARTH PHYSICS REANCH HOLE NO. 268 TAGLU D-47

LATITUDE 69 DEGREES 22.3 MINUTES NORTH LONGITUDE 134 DEGREES 56.8 MINUTES WEST
ELEVATION 1 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 26 7 75	DATE OF LOG 29 4 76	DATE OF LOG 7 7 76	DATE OF LOG 10 3 77
DEPTH (M)	TEMP (F)	DEPTH (M)	TEMP (C)
12.2	-6.46	15.2	-7.68
27.1	-5.45	30.5	-5.95
57.6	-3.62	45.7	-4.78
88.1	-2.45	61.6	-3.85
113.6	-2.27	91.7	-3.22
149.4	-1.58	121.9	-2.84
180.1	-.96	152.4	-2.39
213.3	-.74	183.2	-1.78
240.5	-.64	213.1	-1.12
271.9	-.79	243.8	-.99
302.4	-.86	274.3	-.92
333.5	-.74	304.8	-.94
363.6	-.88	335.3	-.97
395.0	-.84	365.8	-.93
426.1	-.82	396.2	-1.13
456.6	-.73	426.7	-.92
487.7	-.69	457.2	-.99
519.1	-.72	487.7	-.90
549.6	-.61		
		14.9	-7.12
		30.5	-5.78
		45.7	-4.75
		61.6	-3.95
		75.9	-3.29
		91.7	-3.24
		106.4	-3.12
		121.9	-2.92
		137.2	-2.66
		152.7	-2.40
		167.6	-2.08
		183.2	-1.68
		197.8	-1.32
		213.1	-1.03
		228.6	-.99
		243.5	-.97
		260.3	-.87
		274.3	-.95
		289.3	-1.03
		304.8	-1.05
		320.0	-1.03
		335.3	-1.06
		350.8	-1.26
		365.8	-1.25
		381.0	-1.25
		395.9	-1.15
		411.5	-1.09
		426.7	-1.01
		442.0	-.96
		457.2	-.89
		472.4	-.88
		487.4	-.77
		502.9	-.78
		517.9	-.77
		533.1	-.63

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

I.O.E. TAGLU D-47 (FORMERLY F-43)

- WELL SPOOLED 27 3 73
- DRILLING FOR 88 DAYS TO A TOTAL DEPTH OF 4555 METERS
- DRILLING STOPPED 19 6 73
- WELL ABANDONED 11 9 73

EARTH PHYSICS BRANCH HOLE NO. 269 TAGLU D-55

LATITUDE 69 DEGREES 24.2 MINUTES NORTH

LONGITUDE 134 DEGREES 59.6 MINUTES WEST

ELEVATION 1 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 26 7 75		DATE OF LOG 23 4 76		DATE OF LOG 7 7 76		DATE OF LOG 10 3 77	
DEPTH (M)	TEMP (°C)	DEPTH (M)	TEMP (°C)	DEPTH (M)	TEMP (°C)	DEPTH (M)	TEMP (°C)
29.0	-1.25	46.0	-4.68	60.7	-3.14	91.1	-1.70
59.1	-3.11	61.3	-3.95	76.2	-2.34	121.9	-1.26
89.6	-1.67	76.2	-2.43	91.4	-1.69	152.7	-1.06
120.1	-1.08	91.7	-1.69	107.0	-1.26	183.2	-.94
150.6	-.86	107.0	-1.27	121.9	-1.15	213.7	-1.14
181.1	-.66	121.9	-1.15	137.2	-1.07	243.8	-1.23
212.1	-1.00	152.4	-1.06	152.4	-.94	274.6	-1.13
242.6	-1.10	183.5	-.85	167.6	-.85	304.9	-.99
273.1	-1.03	213.4	-1.01	183.2	-.83		
304.2	-.76	244.1	-1.17	198.1	-1.13		
334.4	-.69	274.6	-1.14	213.4	-1.08		
362.1	-1.09	305.1	-.98	228.6	-1.19		
		335.3	-.89	243.5	-1.15		
		365.8	-.97	259.1	-1.19		
				274.3	-1.06		
				289.6	-.98		
				305.1	-.90		
				319.7	-.99		
				335.3	-.84		
				350.8	-.96		
				365.8	-1.15		
				381.0	-1.17		
				386.8	-1.18		

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

I.O.E. TAGLU D-55

- WELL SPUDED 4 4 72
- DRILLING FOR 103 DAYS TO A TOTAL DEPTH OF 3706 METERS
- DRILLING STOPPED 16 7 72
- WELL ABANDONED 21 8 72

EARTH PHYSICS BRANCH HOLE NO. 271 NORTH ELLICE J-23

LATITUDE 69 DEGREES 12.6 MINUTES NORTH LONGITUDE 135 DEGREES 51.2 MINUTES WEST
ELEVATION 1 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 28 4 76	DATE OF LOG 18 10 76	DATE OF LOG 7 3 77			
DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
14.6	-0.34	15.5	-1.96	30.5	-1.84
29.6	-0.51	30.2	-1.03	61.0	.18
44.8	-0.12	45.7	-0.96	91.1	1.94
59.7	3.09	61.0	.19	121.6	4.02
90.2	4.99	76.2	1.69	152.1	5.47
120.7	7.02	91.7	2.51	182.9	7.09
151.2	8.39	106.7	3.59	213.1	8.42
181.7	9.53	121.9	4.47	243.8	9.25
211.8	11.07	137.2	5.41	274.0	10.07
242.6	11.76	152.4	6.14	304.8	10.70
272.8	12.35	167.6	6.95	334.7	11.35
303.9	12.88	183.2	7.63	365.5	11.99
334.1	13.43	198.1	8.27	396.2	12.57
364.5	14.06	213.4	8.86	417.3	12.91
395.0	14.61	228.3	9.28		
425.8	15.04	243.5	9.68		
456.0	15.48	258.8	10.07		
		274.3	10.45		
		289.6	10.79		
		304.5	11.07		
		320.0	11.40		
		335.6	11.76		
		350.5	12.06		
		365.8	12.34		
		381.3	12.64		
		396.5	12.93		
		411.8	13.17		
		426.7	13.49		
		441.7	13.66		

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

SCBC CAN SUF ET AL NORTHELLICE J-23

- WELL SPILLED 22 10 75
- DRILLING FOR 144 DAYS TO A TOTAL DEPTH OF 3505 METERS
- DRILLING STOPPED 15 3 76
- WELL ABANDONED 15 3 76

EARTH PHYSICS BRANCH HOLE NO. 272 PARSONS L-43

LATITUDE 68 DEGREES 52.6 MINUTES NORTH

LONGITUDE 133 DEGREES 41.9 MINUTES WEST

ELEVATION 49 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 26 4 76		DATE OF LOG 10 7 76		DATE OF LOG 20 10 76		DATE OF LOG 12 3 77	
DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
30.5	-0.54	30.5	-0.36	30.2	-2.56	30.5	-5.17
45.7	-0.43	45.7	-0.18	61.3	-2.88	59.7	-4.39
61.0	-0.14	61.0	-0.18	91.7	-0.60	88.4	-1.67
91.4	-0.10	91.1	-0.20	121.6	-0.49	118.6	-2.60
121.6	-0.15	122.2	-0.22	152.4	-0.47	149.0	-1.25
152.4	-0.08	152.4	-0.23	182.9	-0.45	179.5	-0.63
182.6	-0.04	182.6	-0.25	213.1	-0.37	209.7	-0.49
213.1	-0.01	213.4	-0.22	243.8	-0.33	239.6	-0.41
244.1	.03	244.1	-0.18	274.6	.00	269.7	-0.16
274.6	.76	274.3	.33	289.3	.87	285.0	.62
304.9	3.86	289.3	1.61	305.1	1.76	310.5	1.27
335.0	4.93	305.1	2.62	335.3	2.58	320.7	2.12
365.8	5.73	319.7	3.07	365.8	3.41	360.9	2.96
396.2	6.71	335.3	3.44	396.2	4.42	391.4	3.83
426.7	7.71	365.5	4.32	426.7	5.33	421.8	4.88
457.2	8.29	395.9	5.25	456.9	6.46	452.0	5.98
487.7	9.19	426.4	6.12	487.7	7.18	482.2	6.77
		456.9	7.35	517.9	8.24	513.0	7.80
		487.7	7.96				
		518.2	9.04				
		548.3	10.23				
		579.1	11.05				
		609.3	11.82				

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

GULF MOBIL PARSONS L-43

-WELL SPUNNER 10 12 75

-DRILLING FOR 53 DAYS TO A TOTAL DEPTH OF 3325 METERS

-DRILLING STOPPED 2 2 76

-WELL ABANDONED 2 2 76

EARTH PHYSICS BRANCH HOLE NO. 273 KAMIK D-48

LATITUDE 68 DEGREES 57.2 MINUTES NORTH

LONGITUDE 133 DEGREES 27.5 MINUTES WEST

ELVATION 71 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 26 4 76		DATE OF LOG 10 7 76		DATE OF LOG 20 10 76		DATE OF LOG 12 3 77	
DEPTH (M)	TEMP (°C)	DEPTH (M)	TEMP (°C)	DEPTH (M)	TEMP (°C)	DEPTH (M)	TEMP (°C)
15.5	-0.33	30.5	-0.63	30.5	-1.66	61.0	-4.82
33.5	-0.16	45.7	-0.97	61.0	-2.79	89.6	-5.07
43.7	-0.43	61.0	-0.94	91.4	-3.49	120.1	-4.62
61.3	-0.60	91.4	-1.56	121.9	-2.97	150.0	-4.20
91.7	-0.80	121.9	-0.87	152.7	-2.93	180.1	-3.26
121.9	-0.48	152.4	-0.85	182.6	-1.98	210.9	-2.41
152.7	-0.22	182.9	-0.73	213.1	-1.90	241.4	-1.45
182.9	-0.24	213.4	-0.40	243.5	-0.71	271.6	-1.09
213.7	-0.14	243.8	-0.40	274.3	-0.72	293.8	-0.47
243.8	-0.05	274.3	-0.47	294.4	-0.37		
274.3	0.10	294.7	-0.28				
292.6	0.15						

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

GULF MCPL KAMIK D-48

- WELL SPUNDED 23 12 75
- DRILLING FOR 102 DAYS TO A TOTAL DEPTH OF 3235 METERS
- DRILLING STOPPED 4 4 76
- WELL ABANDONED 4 4 76

EARTH PHYSICS BRANCH HOLE NO. 274 SIKU C-11

LATITUDE 69 DEGREES 0.0 MINUTES NORTH

LONGITUDE 133 DEGREES 33.8 MINUTES WEST

ELEVATION 58 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG							
DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
15.2	-09	18.0	-33	15.2	-148	61.3	-124
31.5	.51	30.2	-68	30.2	-31	91.4	-400
45.0	.76	60.7	-15	61.0	-47	121.6	-392
61.0	.33	91.7	-21	91.1	-333	152.1	-374
91.7	-11	122.2	-30	122.2	-302	182.6	-310
121.6	-15	152.7	-97	152.1	-312	213.4	-210
153.0	.27	182.9	-41	183.2	-177	243.8	-124
182.6	-21	213.7	-62	213.1	-116	274.3	-57
213.1	-44	243.8	-37	243.5	-58	304.5	-41
243.8	-31	274.3	-31	274.6	-41	335.0	-31
273.7	-18	305.1	-30	304.5	-36	365.8	-14
305.1	-10	335.3	-28	335.0	-30	381.0	.53
320.0	-07	350.8	-25	350.2	-30	395.9	122
335.0	-04	365.5	.30	365.8	-06	426.7	228
350.5	-01	381.3	1.45	373.4	.45	456.9	341
365.8	.61	395.9	2.30	381.0	.79	487.4	421
381.0	2.20	411.5	2.98	388.6	1.23	517.9	4.93
395.9	3.65	427.0	3.50	396.2	1.62		
411.2	4.36	442.0	4.05	426.4	2.69		
426.7	5.01	456.9	4.53	457.2	3.80		
456.9	5.96	487.7	5.30	487.4	4.54		
487.7	6.84	518.2	6.01	518.2	5.31		

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

GULF MCBIL SIKU C-11
-WELL SPUNNED 26 12 75
-DRILLING FOR 61 DAYS TO A TOTAL DEPTH OF 3295 METERS
-DRILLING STOPPED 26 2 76
-WELL ABANDONED 26 2 76

EARTH PHYSICS BRANCH HOLE NO. 275 PARSONS N-17

LATITUDE 68 DEGREES 56.9 MINUTES NORTH

LONGITUDE 133 DEGREES 34.0 MINUTES WEST

ELF VATION 52 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG 21 4 76		DATE OF LOG 10 7 76		DATE OF LOG 20 10 76		DATE OF LOG 12 3 77	
DEPTH (M)	TEMP (°C)	DEPTH (M)	TEMP (°C)	DEPTH (M)	TEMP (°C)	DEPTH (M)	TEMP (°C)
30.2	2.38	30.2	-0.37	15.2	-1.78	30.8	-2.55
45.3	4.99	45.7	-0.40	30.2	-0.97	61.3	-0.90
60.7	4.73	61.0	-0.40	45.7	-0.77	91.4	-0.85
91.7	4.93	91.4	.01	61.0	-0.70	121.9	-0.79
121.9	9.36	121.9	1.15	76.2	-0.66	152.7	-0.69
152.7	2.43	152.4	-0.36	91.4	-0.36	183.2	-0.67
182.9	2.70	182.9	-0.24	106.7	.64	213.1	-0.52
213.4	2.67	213.4	-0.24	121.9	-0.47	243.8	-0.47
243.8	3.56	243.8	-0.29	152.1	-0.53	274.6	-0.46
274.6	2.70	274.3	-0.30	182.9	-0.39	304.8	-0.37
304.9	3.38	304.8	-0.26	213.7	-0.35	335.7	-0.18
335.6	4.03	335.3	.21	243.8	-0.40	350.5	.59
350.5	4.91	365.5	3.39	274.3	-0.38	365.8	1.41
357.8	6.49	396.2	4.48	304.5	-0.35	396.2	2.35
366.1	8.00	426.7	5.36	320.0	-0.28	426.7	3.41
396.2	9.24	457.2	6.35	335.3	-0.13	457.5	4.24
426.7	10.04	487.7	7.04	350.5	.84	488.0	5.10
457.2	11.03	518.2	7.77	365.8	1.94	518.2	5.93
487.7	11.79	548.6	8.57	381.0	2.60		
518.5	12.50	579.1	9.18	396.2	3.12		
548.6	12.87	609.6	10.14	426.7	4.08		
579.1	13.41			457.2	4.92		
609.6	14.12			487.7	5.73		
				518.2	6.50		

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

GULF MCRIIL PARSONS N-17

-WELL SPUDDEC 18 12 75

-DRILLING FOR 116 DAYS TO A TOTAL DEPTH OF 3295 METERS

-DRILLING STOPPED 13 4 76

-WELL ABANDONED 13 4 76

EARTH PHYSICS BRANCH HOLE NO. 276 ULU A-35

LATITUDE 68 DEGREES 44.0 MINUTES NORTH

LONGITUDE 135 DEGREES 52.9 MINUTES WEST

ELEVATION 3 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG DATE OF LOG
18 10 76 19 3 77

DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
15.2	3.10	30.8	-3.21
30.5	4.01	61.0	.90
60.7	6.72	91.4	3.34
91.4	8.86	121.9	5.09
121.6	10.58	152.4	6.28
152.4	11.33		

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

SHELL ULU A-35

- WELL SPOODED 15 3 76
- DRILLING FOR 189 DAYS TO A TOTAL DEPTH OF 3920 METERS
- DRILLING STOPPED 26 9 76

EARTH PHYSICS BRANCH HOLE NO. 277 SIKU A-12

LATITUDE 69 DEGREES 1.0 MINUTES NORTH LONGITUDE 133 DEGREES 32.5 MINUTES WEST
ELEVATION 56 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG DATE OF LOG
21 10 76 14 3 77

DEPTH (M)	TEMP (C)	DEPTH (M)	TEMP (C)
15.2	-2.27	61.0	-2.49
30.2	-0.39	91.4	-1.09
60.7	-0.31	121.6	-0.48
91.1	-0.28	152.4	-2.14
121.9	-0.38	182.9	-2.25
152.4	-0.43	213.4	-0.99
182.9	-0.51	243.8	-0.55
213.4	-0.60	274.3	-0.42
243.5	-0.41	305.1	-0.47
274.0	-0.30	335.0	-0.33
304.8	-0.34	350.5	-0.19
335.0	-0.29	365.5	1.19
350.5	0.13	395.9	2.16
358.1	0.66	426.4	2.87
366.1	2.30		
381.0	2.76		
396.2	3.28		
426.7	3.88		
456.3	3.87		

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

GULF MCBIL SIKU A-12
-WELL SPUDED 14 4 76
-DRILLING FOR 44 DAYS TO A TOTAL DEPTH OF 3288 METERS
-DRILLING STOPPED 28 5 76

EARTH PHYSICS BRANCH HOLE NO. 278 NIGLINTGAK P-19

LATITUDE 69 DEGREES 18.2 MINUTES NORTH LONGITUDE 135 DEGREES 18.3 MINUTES WEST
ELEVATION 2 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG

25 3 77

DEPTH TEMP
(M) (C)

30.5	-2.75
61.0	-1.30
91.7	-.79
122.2	-.34
152.7	.11
183.2	.82
213.4	1.39
244.1	2.14
274.6	2.72
305.1	3.52
335.6	4.11
365.8	4.72
395.3	5.27

TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

SHELL NIGLINTGAK B-19

-WELL SPUDDED 18 10 75

-DRILLING FOR 74 DAYS TO A TOTAL DEPTH OF 3144 METERS

-DRILLING STOPPED 1 1 76

EARTH PHYSICS BRANCH HOLE NO. 279 PARSONS L-37

LATITUDE 68 DEGREES 56.7 MINUTES NORTH LONGITUDE 133 DEGREES 39.9 MINUTES WEST
ELEVATION 38 METERS

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE OF LOG
15 4 77

DEPTH TEMP
(M) (C)

15.2	-2.50
30.5	-.58
61.0	.18
91.4	.75
121.9	.20
152.4	1.02
182.9	2.03
213.4	.80
243.8	1.52
274.3	1.16
304.8	1.79
320.0	4.20
337.4	5.82

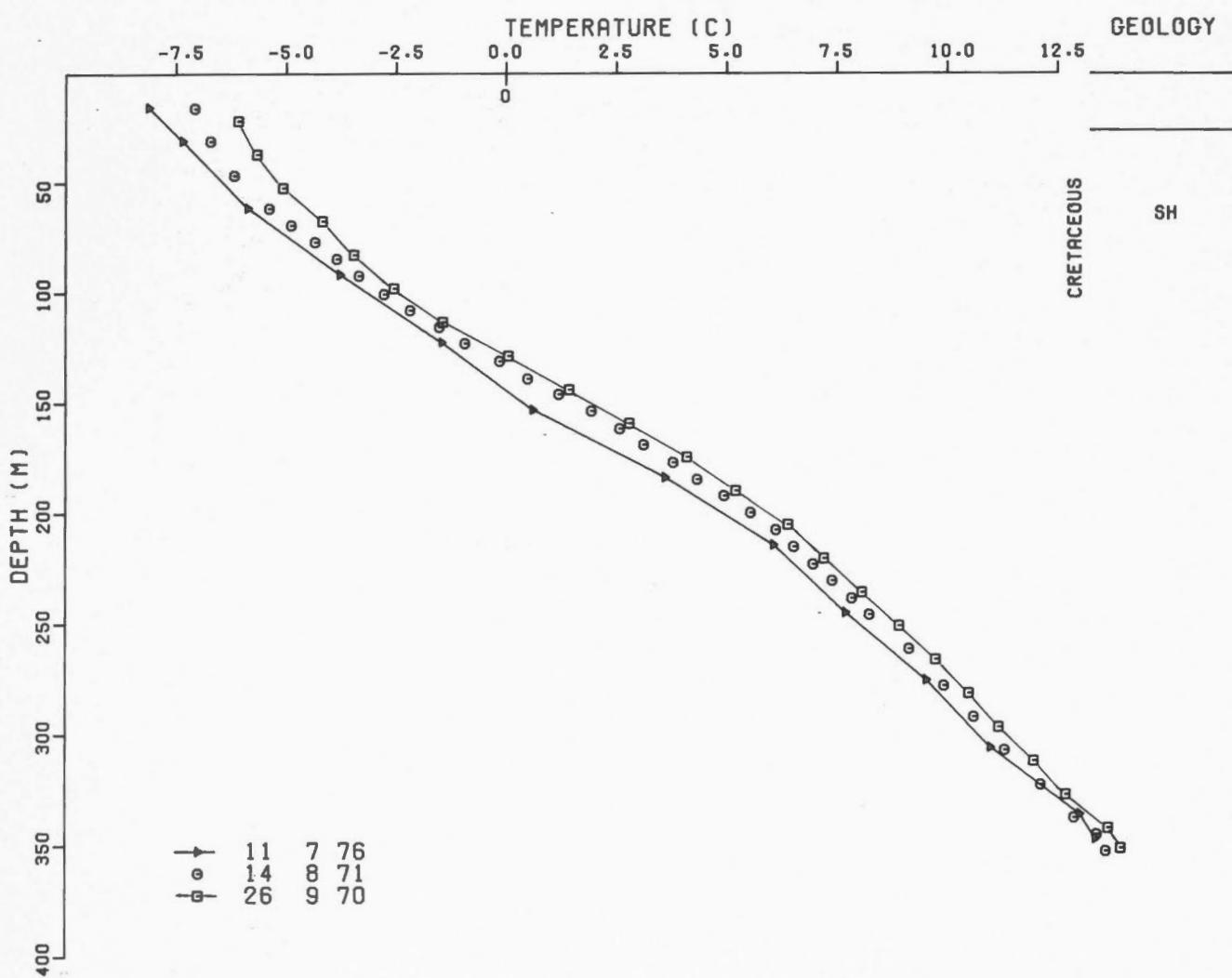
TEMPERATURE RESULTS ARE OBTAINED FROM SINGLE THERMISTOR LOGS
FURTHER TEMPERATURE LOGS ARE EXPECTED FOR THIS HOLE

GULF MOBIL FARSCNS L-37
-WELL SPOODED 26 12 76
-DRILLING FOR 99 DAYS TO A TOTAL DEPTH OF 3961 METERS
-WELL ABANDONED 4 4 77

3.2 Graphs of Temperature versus Depth

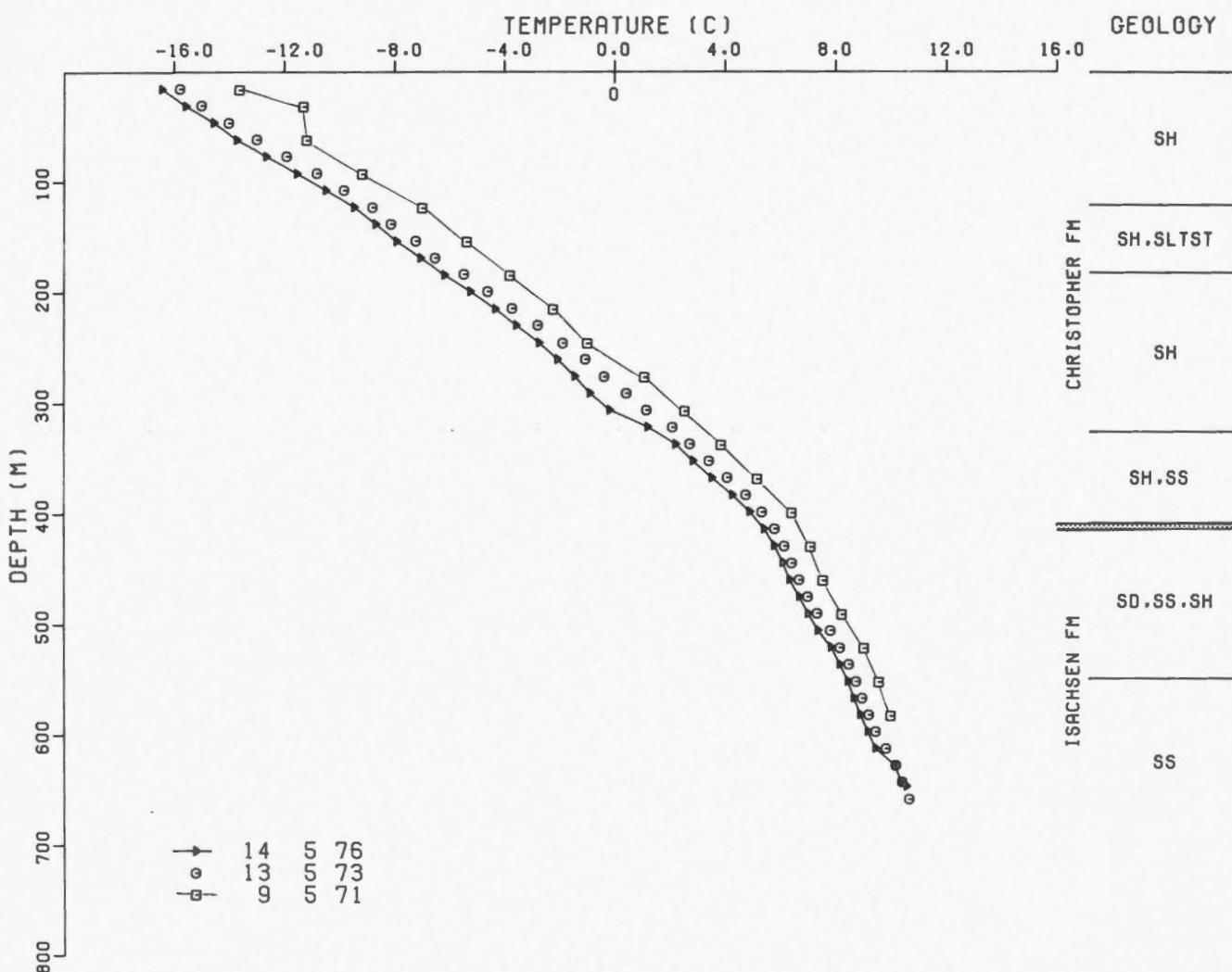
77 HORTON RIVER

69° 51.4' N 127° 15.9' W



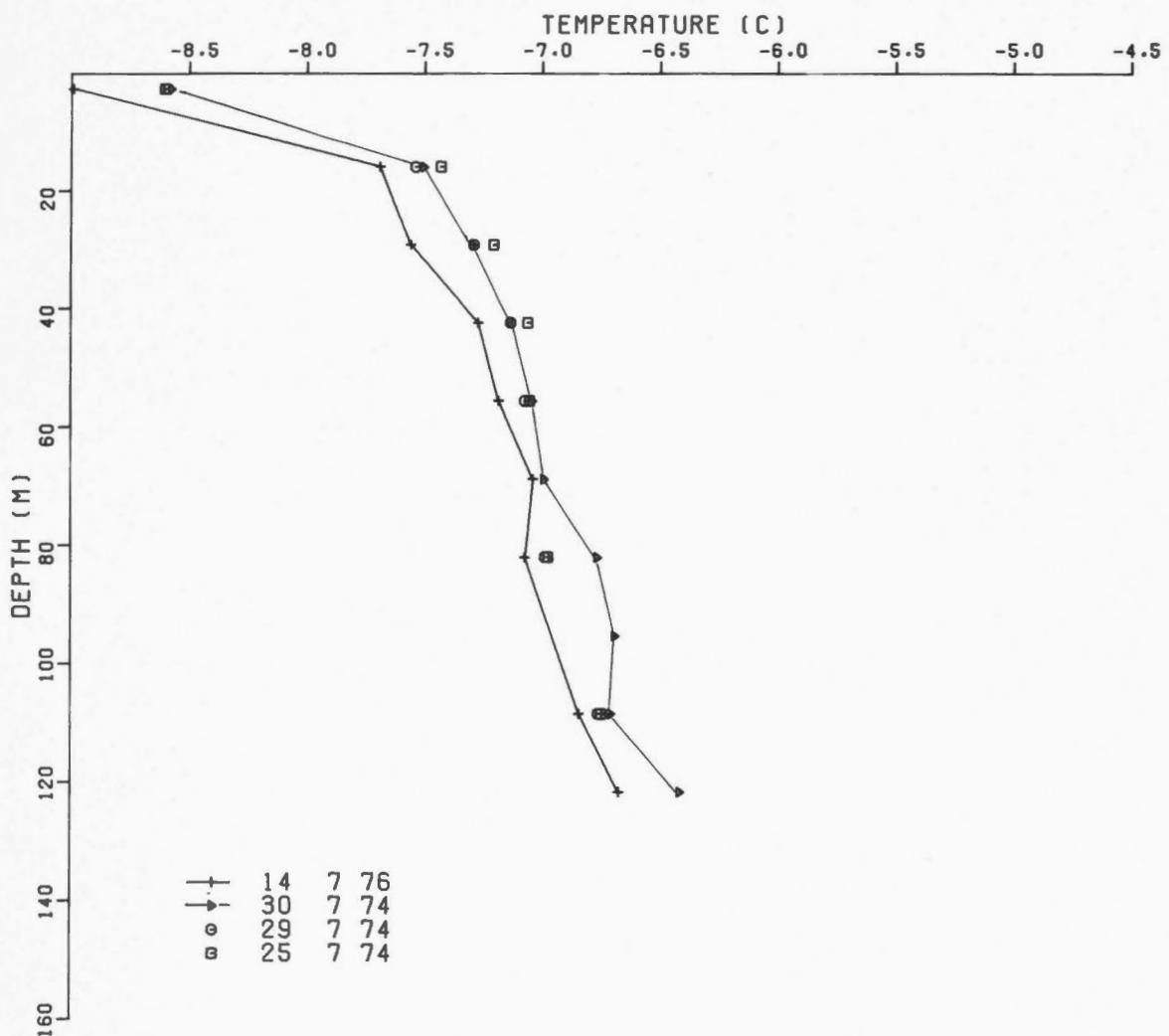
86 HOOODOO DOME H-37

78° 6.5' N 99° 45.6' W



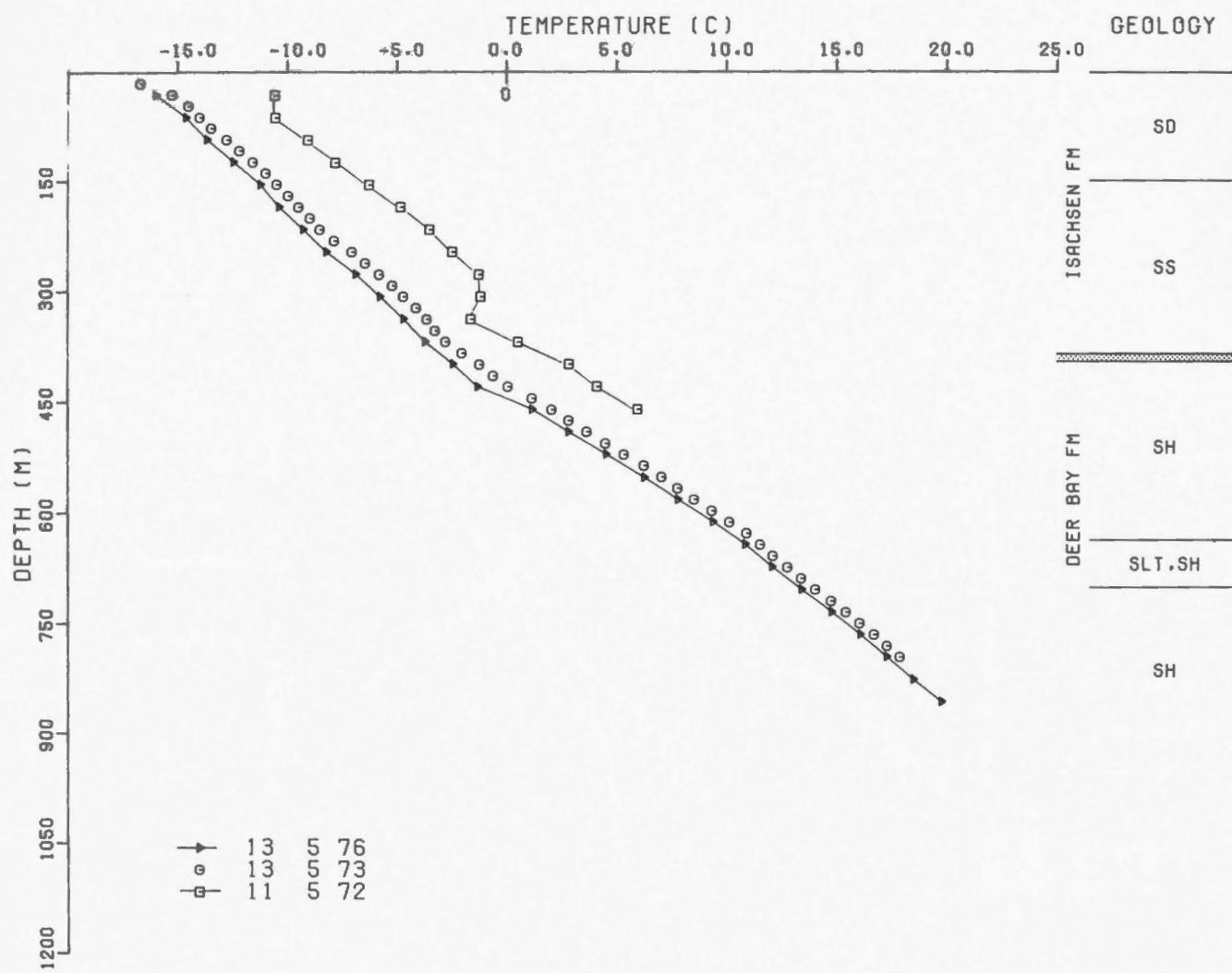
114 ASBESTOS HILL -2

61° 47.8' N 73° 58.4' W



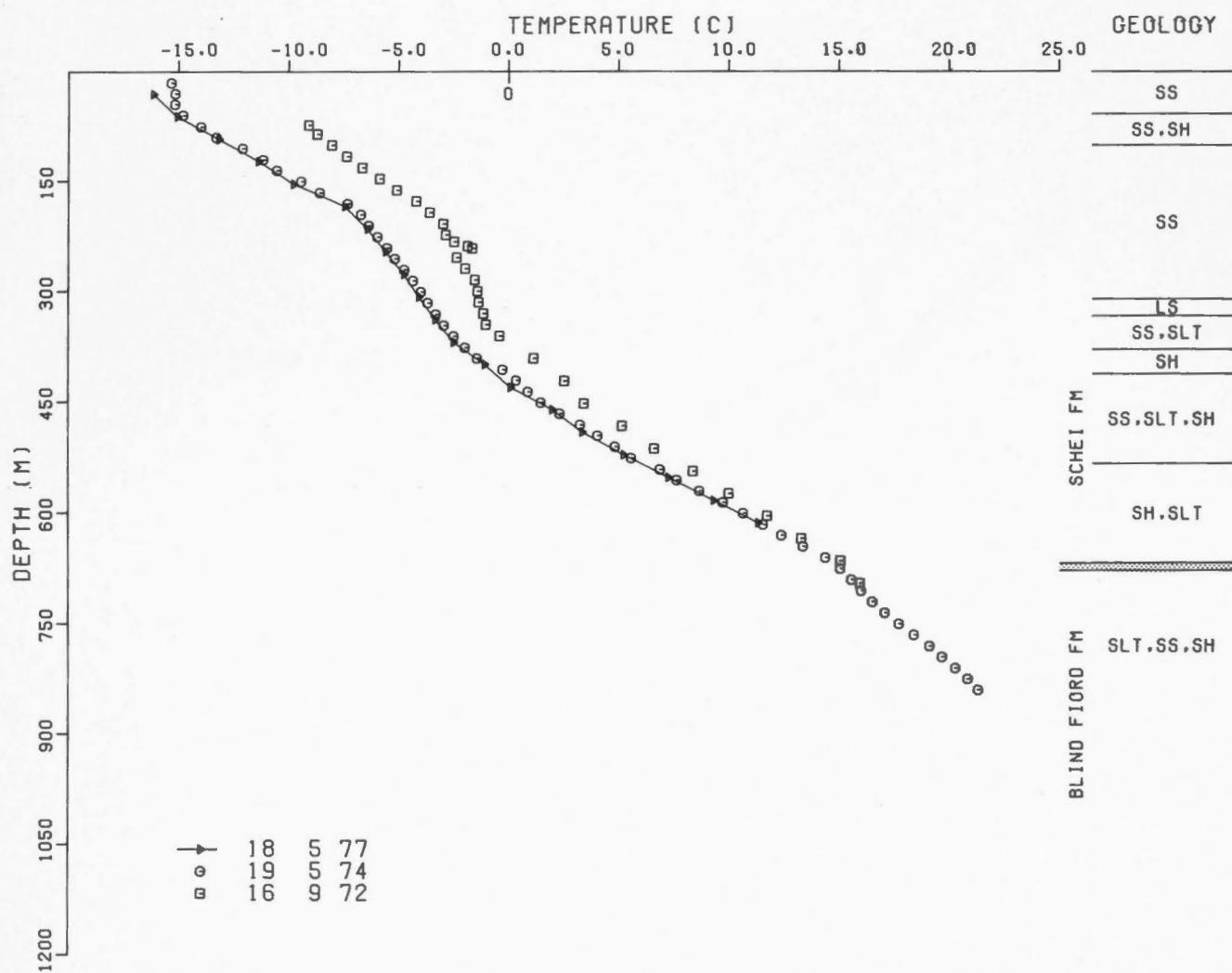
155 KRISTOFFER BAY B-06

78° 15.3' N 102° 32.0' W



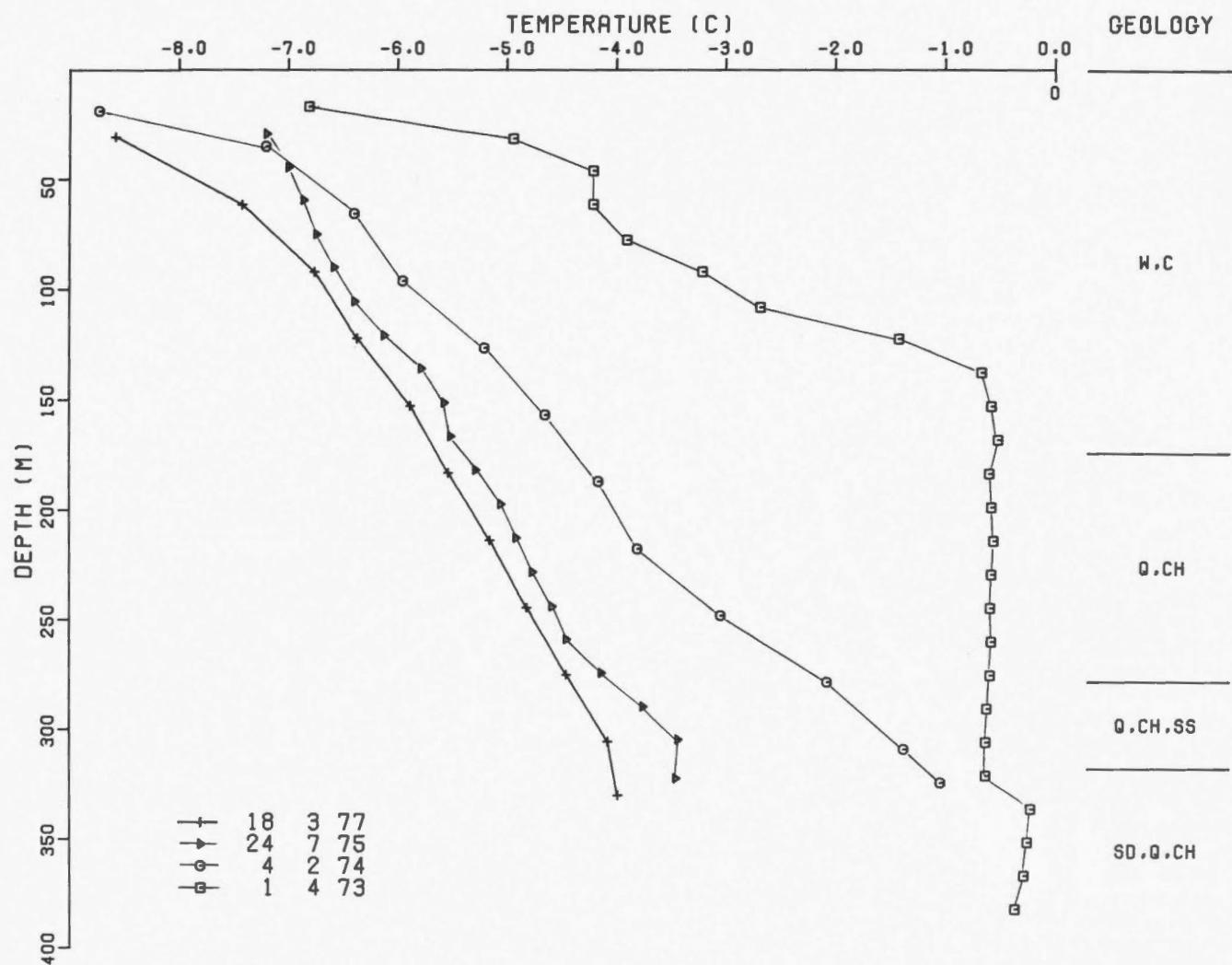
158 BROCK I-20

77° 59.7' N 114° 33.9' W



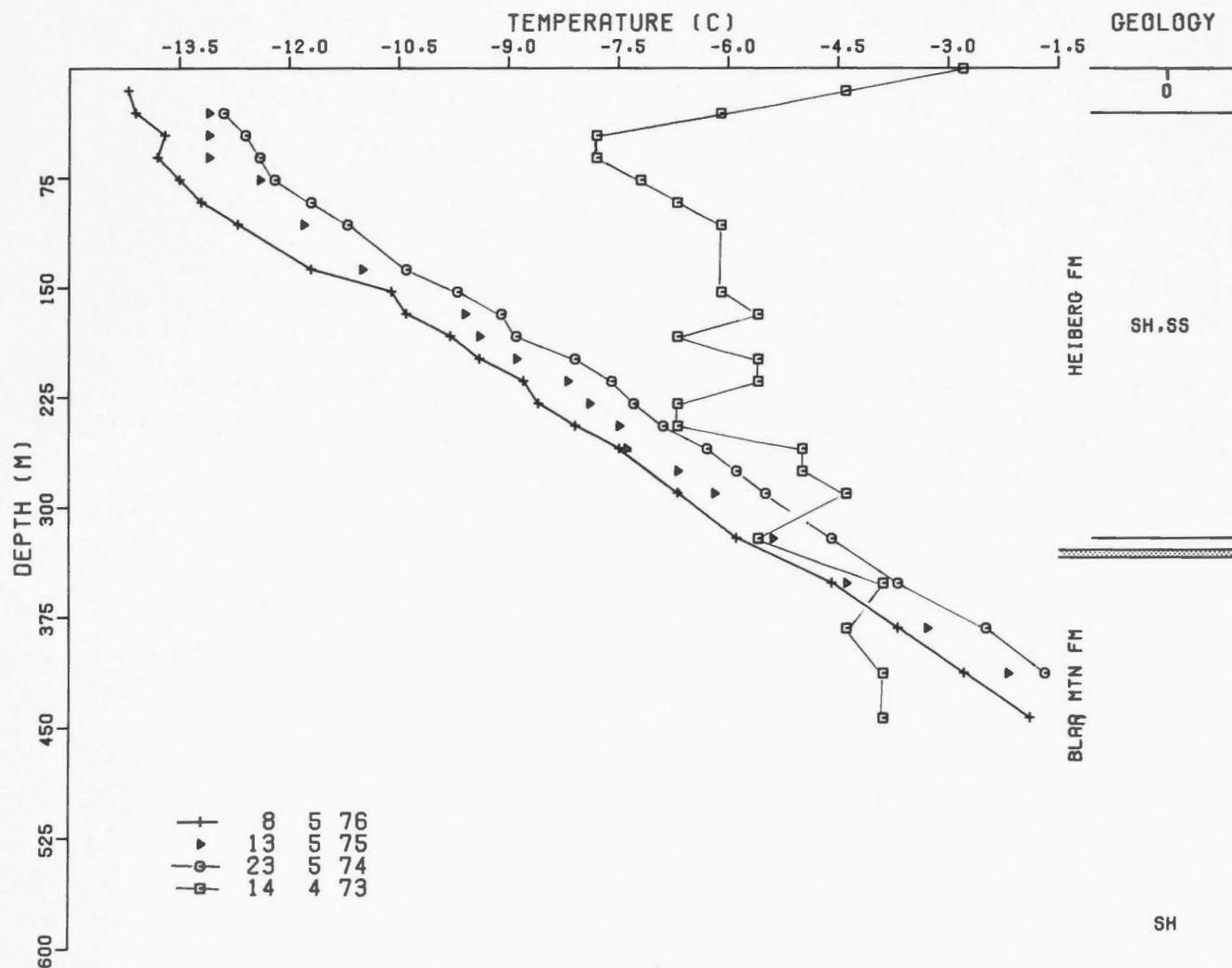
165 KILAGMIOTAK F-48

69° 27.5' N 134° 11.9' W



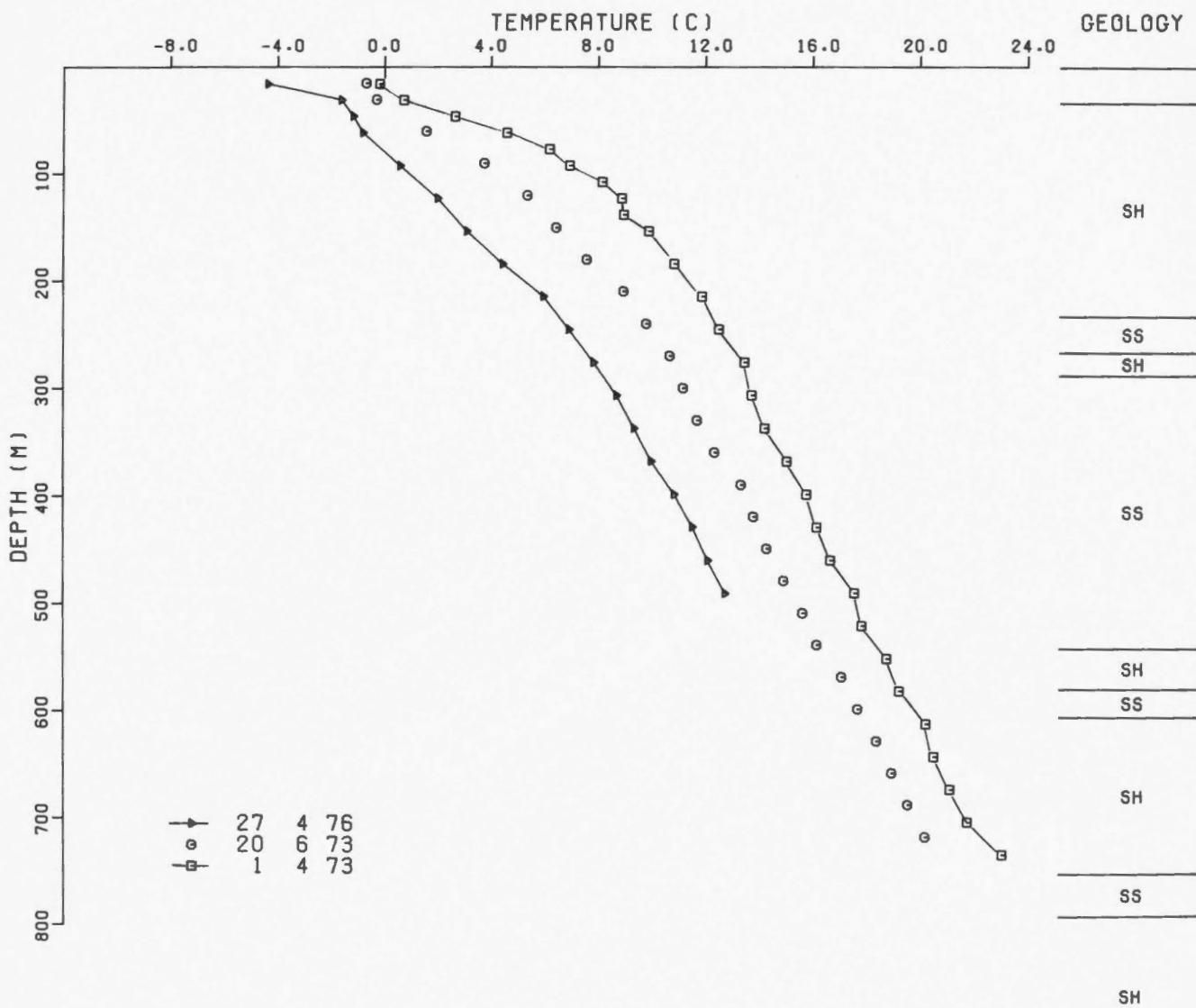
166 MOKKA A-02

79° 31.2' N 87° 1.2' W



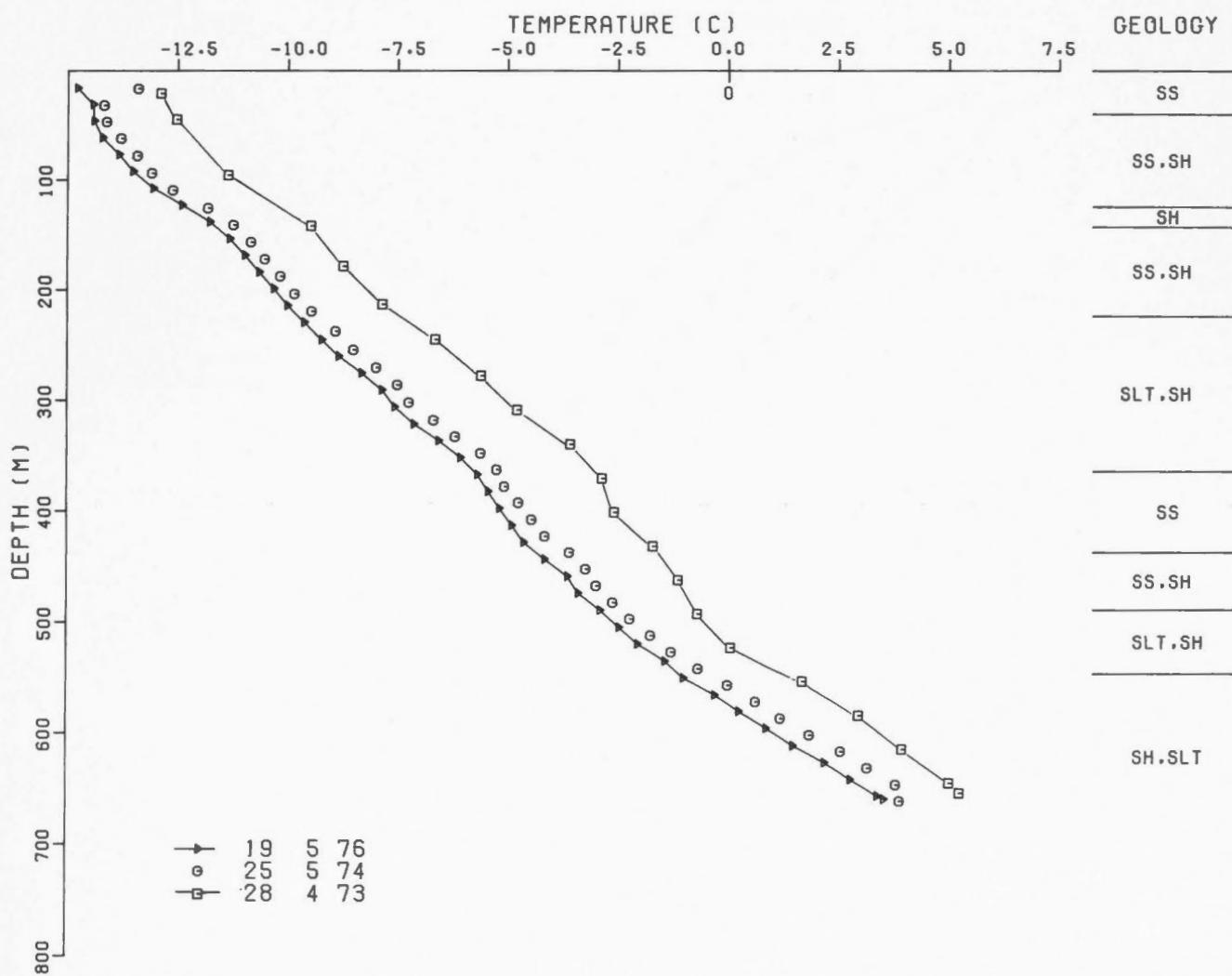
167 UNIPKAT I-22

69° 11.7' N 135° 20.5' W

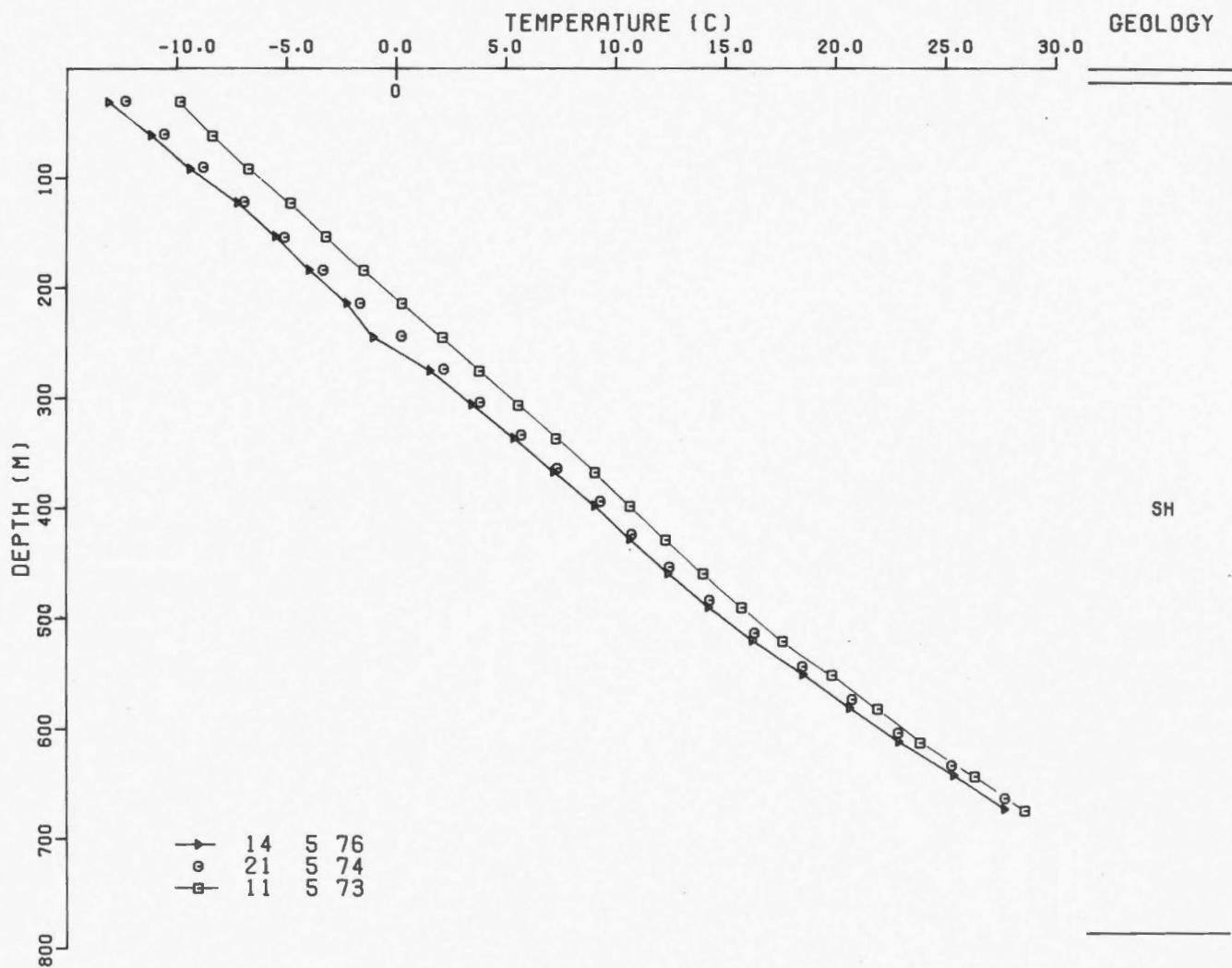


168 DUNDAS C-80

74° 39.0' N 113° 23.0' W

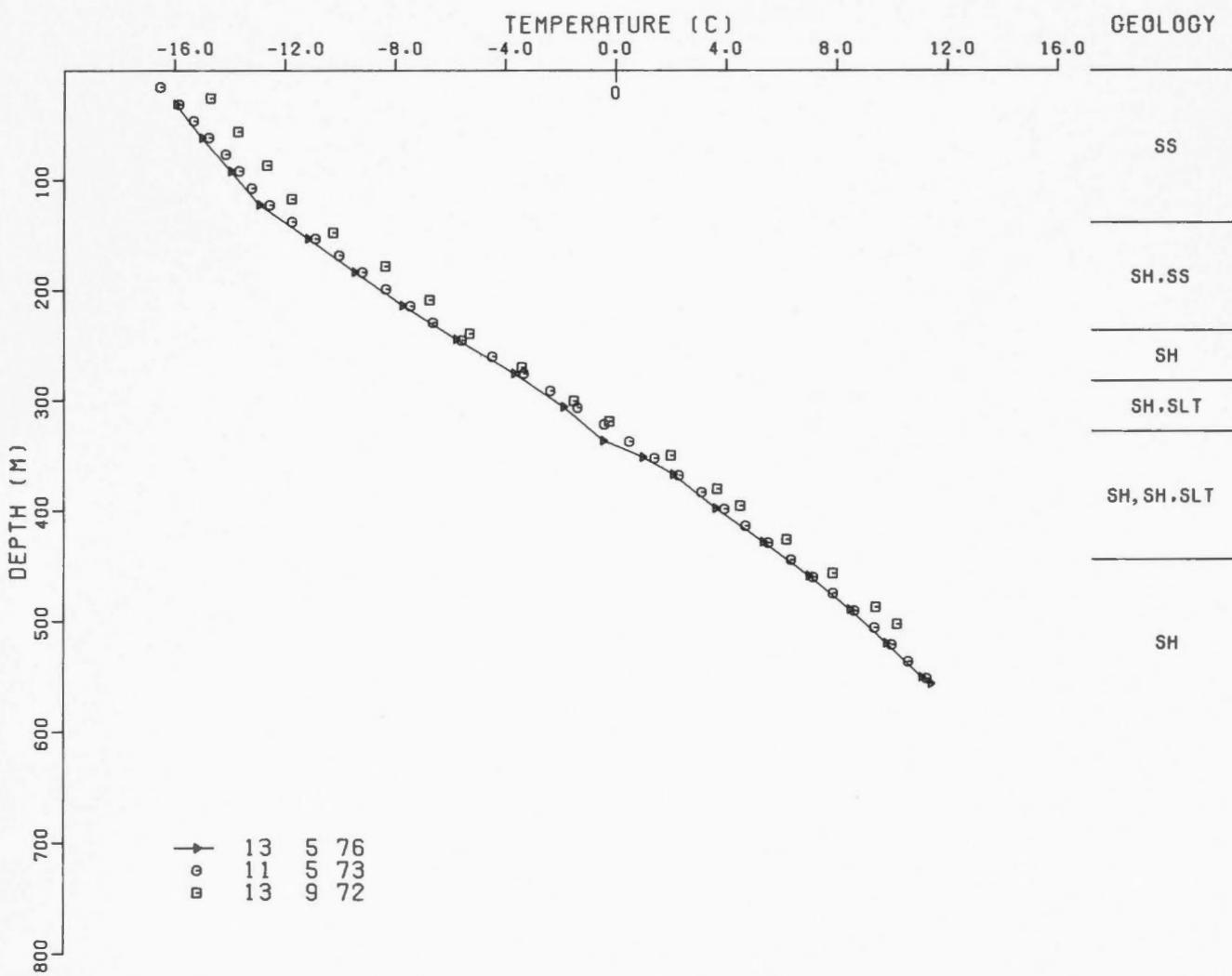


169 LOUISE BAY 0-25
78° 44.9' N 102° 42.0' W

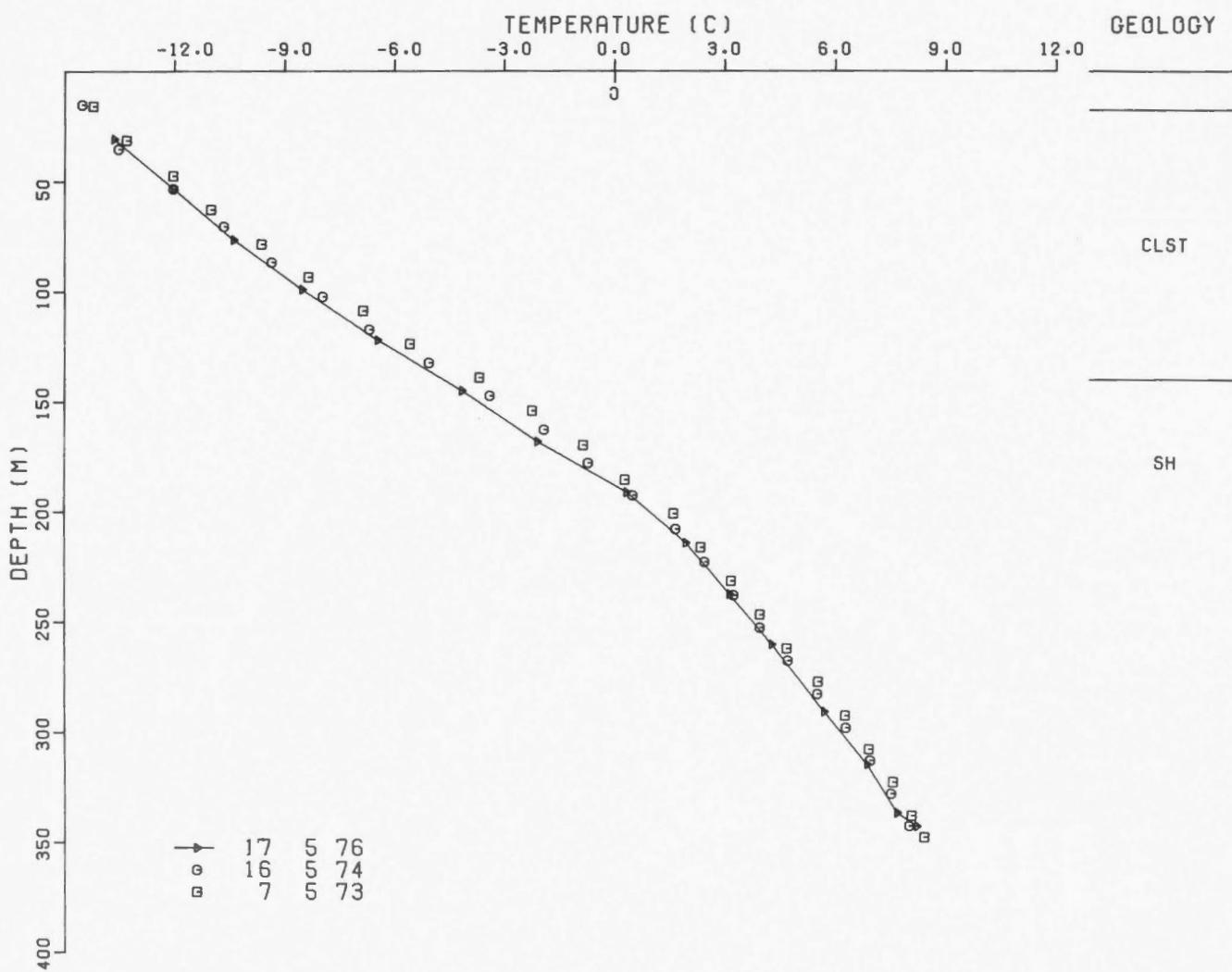


170 THOR P-38

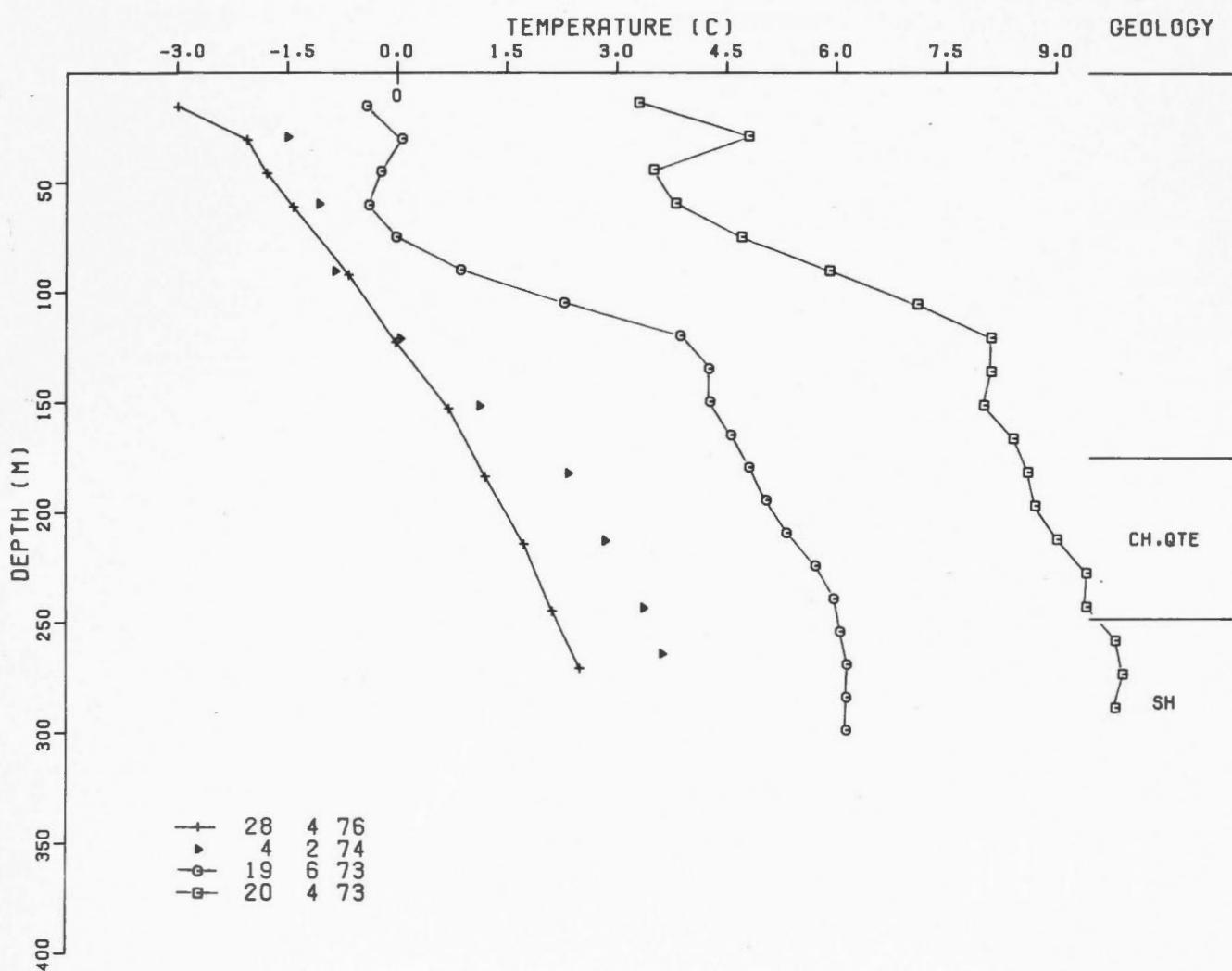
78° 7.8' N 403° 15.2' W



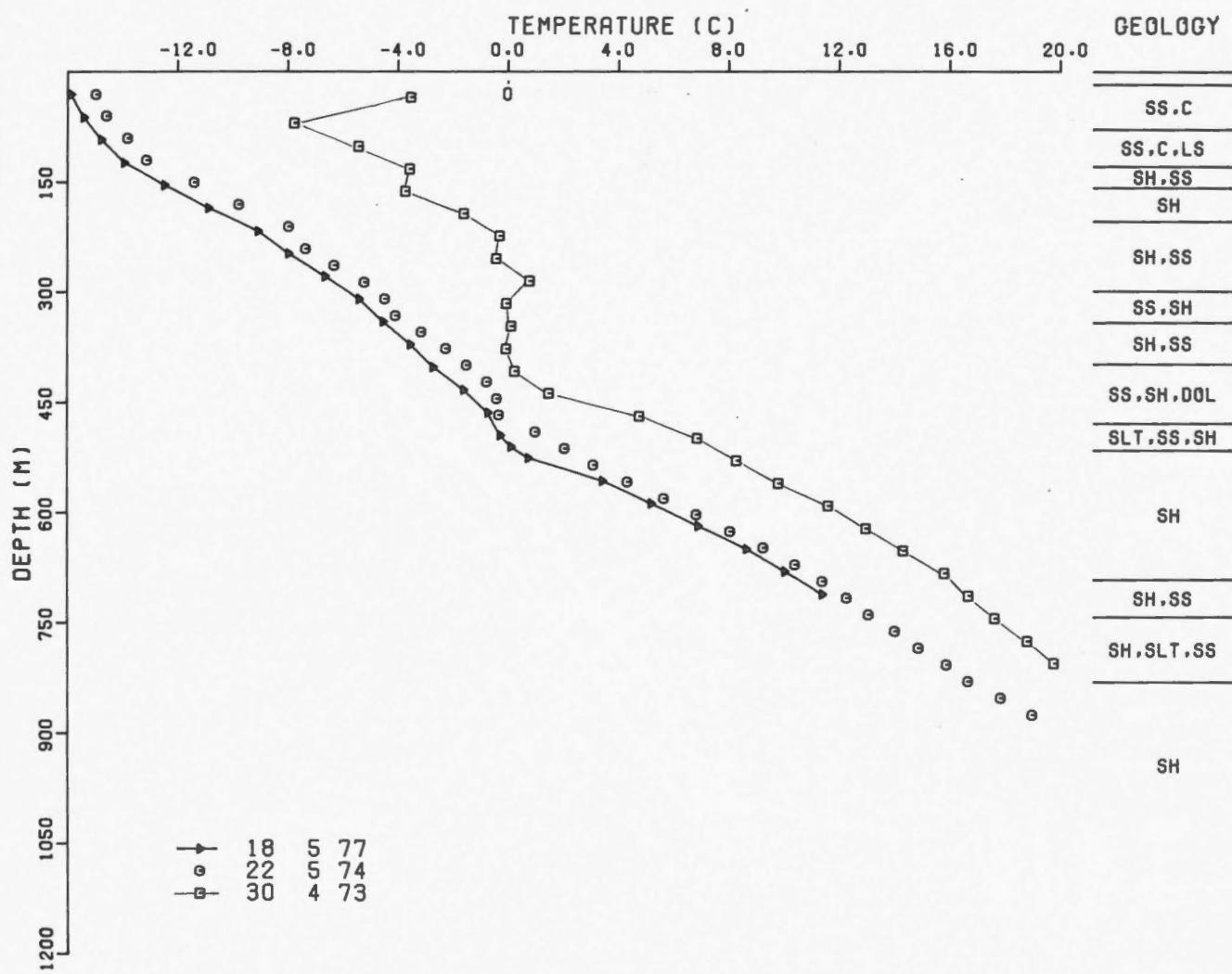
172 DRAKE B-44
76° 23.1' N - 108° 16.1' W



173 NIGLINTGAK H-30
69° 19.4' N 135° 20.1' W

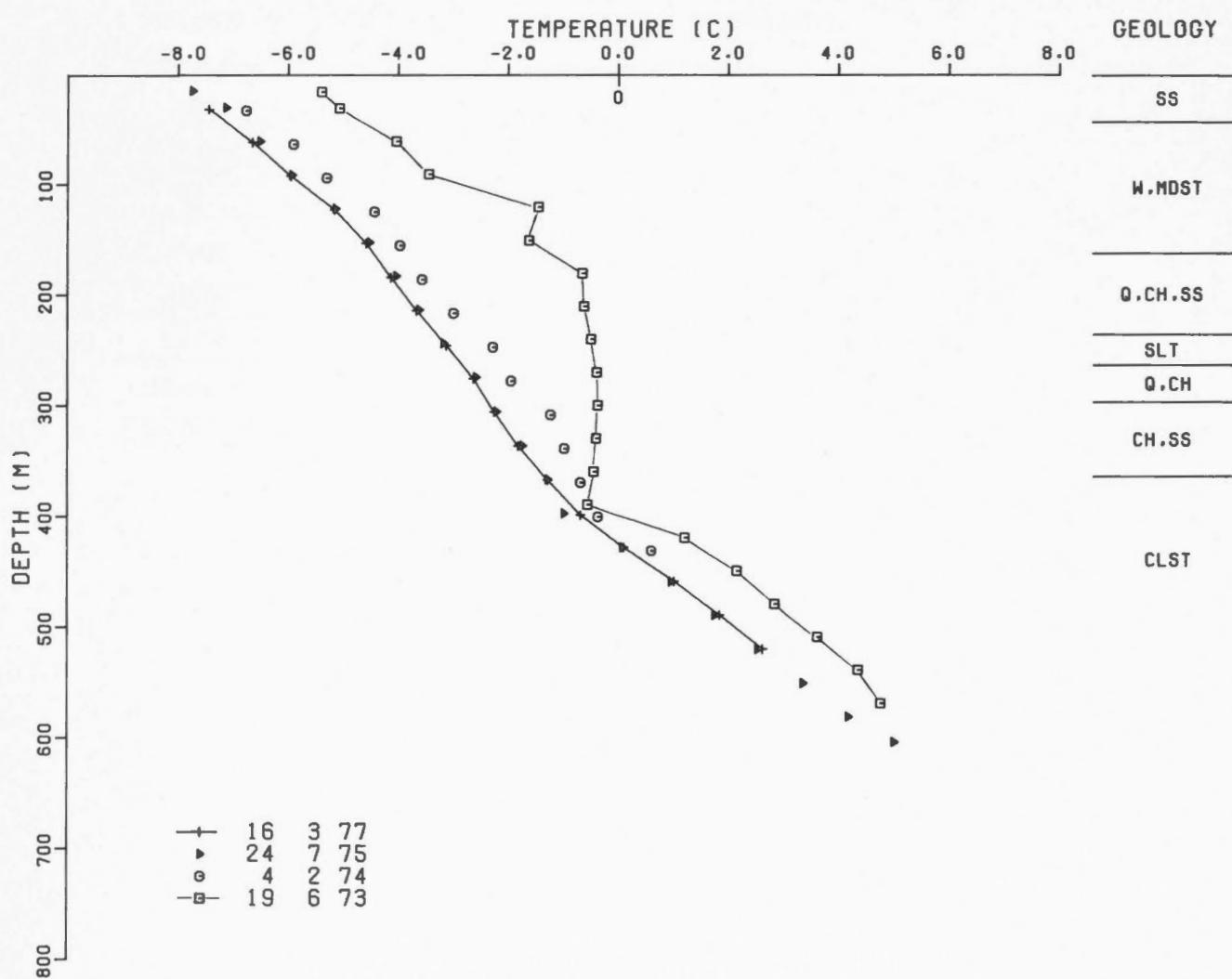


175 GEMINI E-10
79° 59.4' N 84° 4.2' W



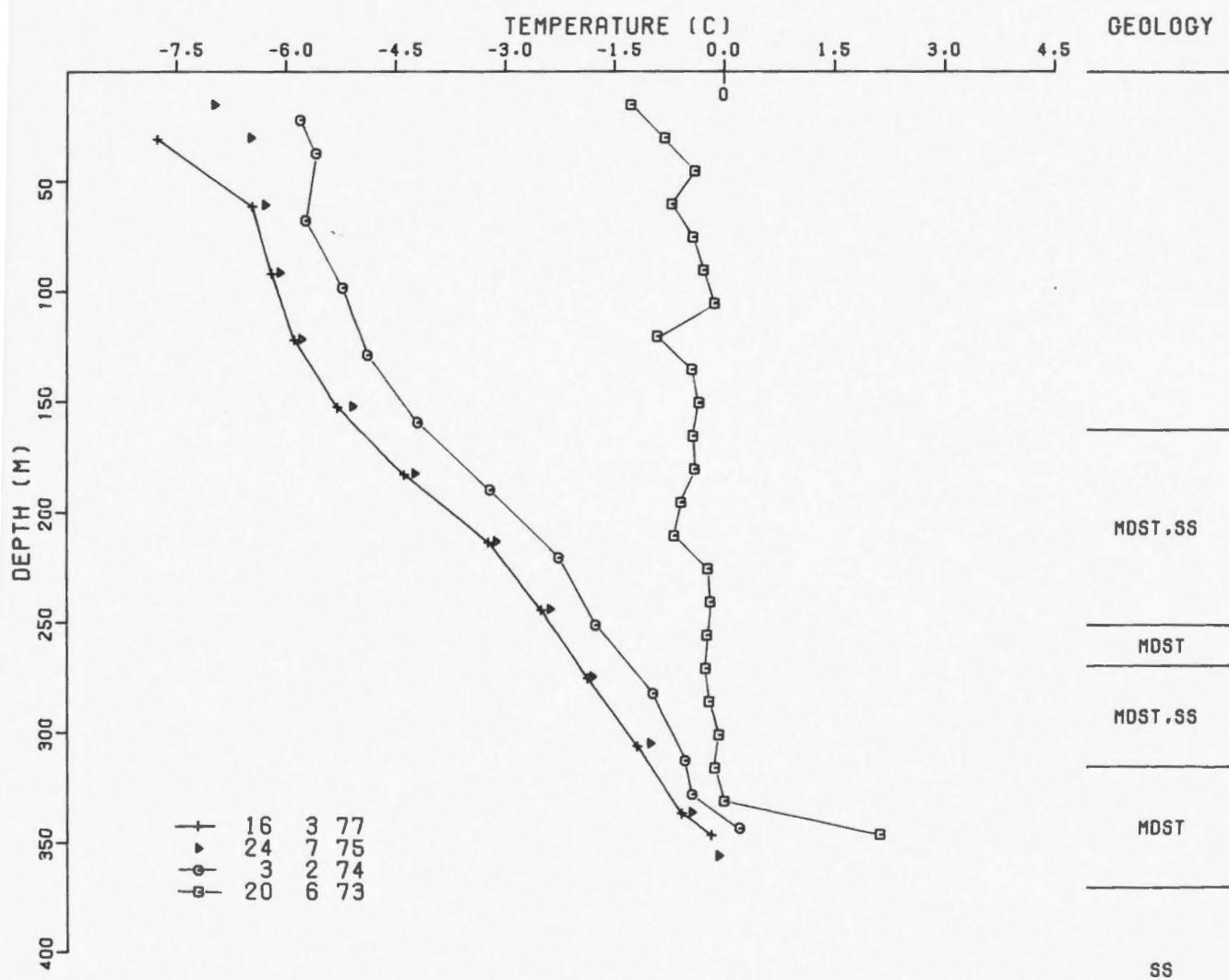
176 YA YA P-53

69° 12.8' N 134° 42.7' W



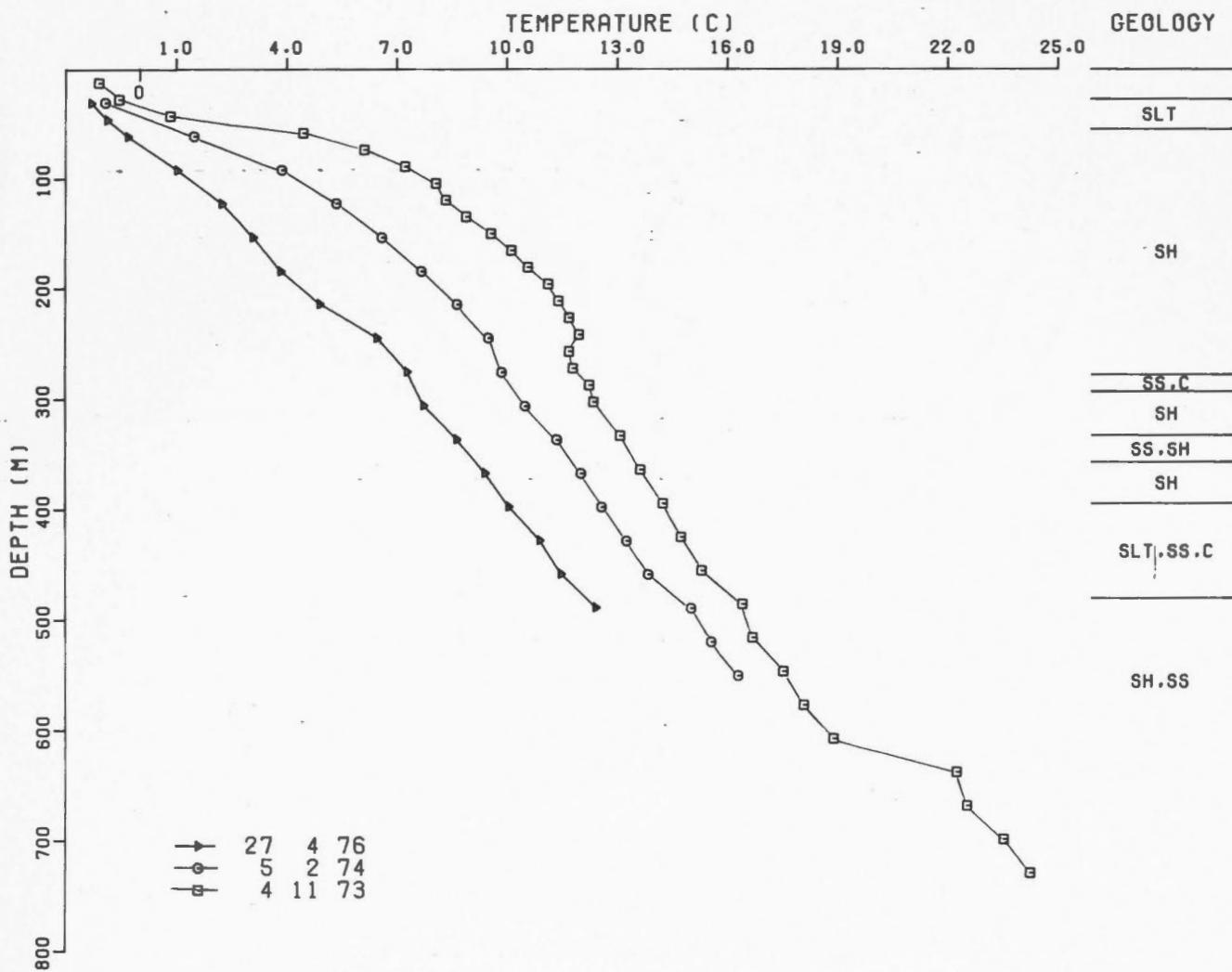
179 REINDEER F-36

69° 5.3' N 134° 39.0' W



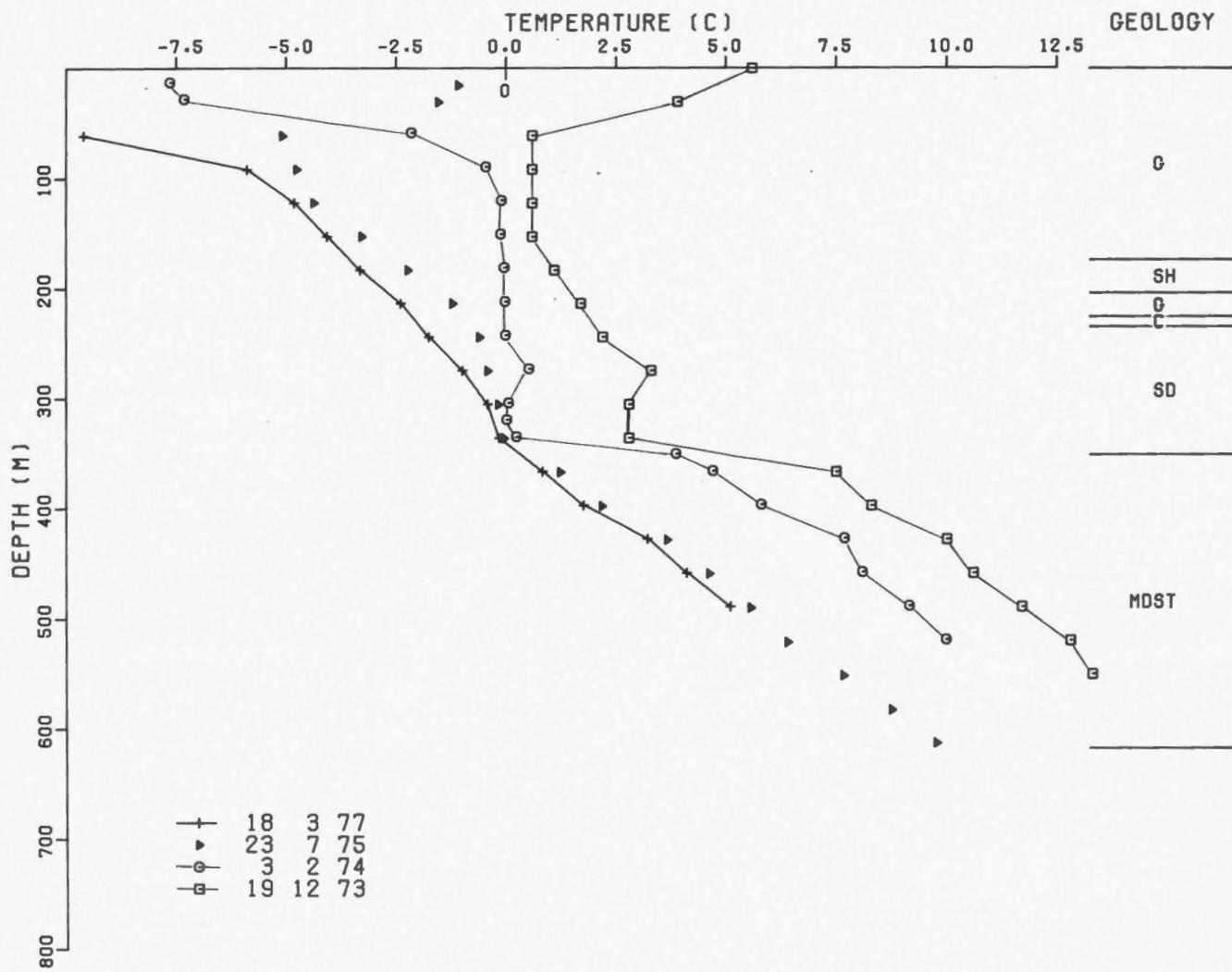
192 KUGPIK 0-13

68° 52.8' N 135° 18.2' W



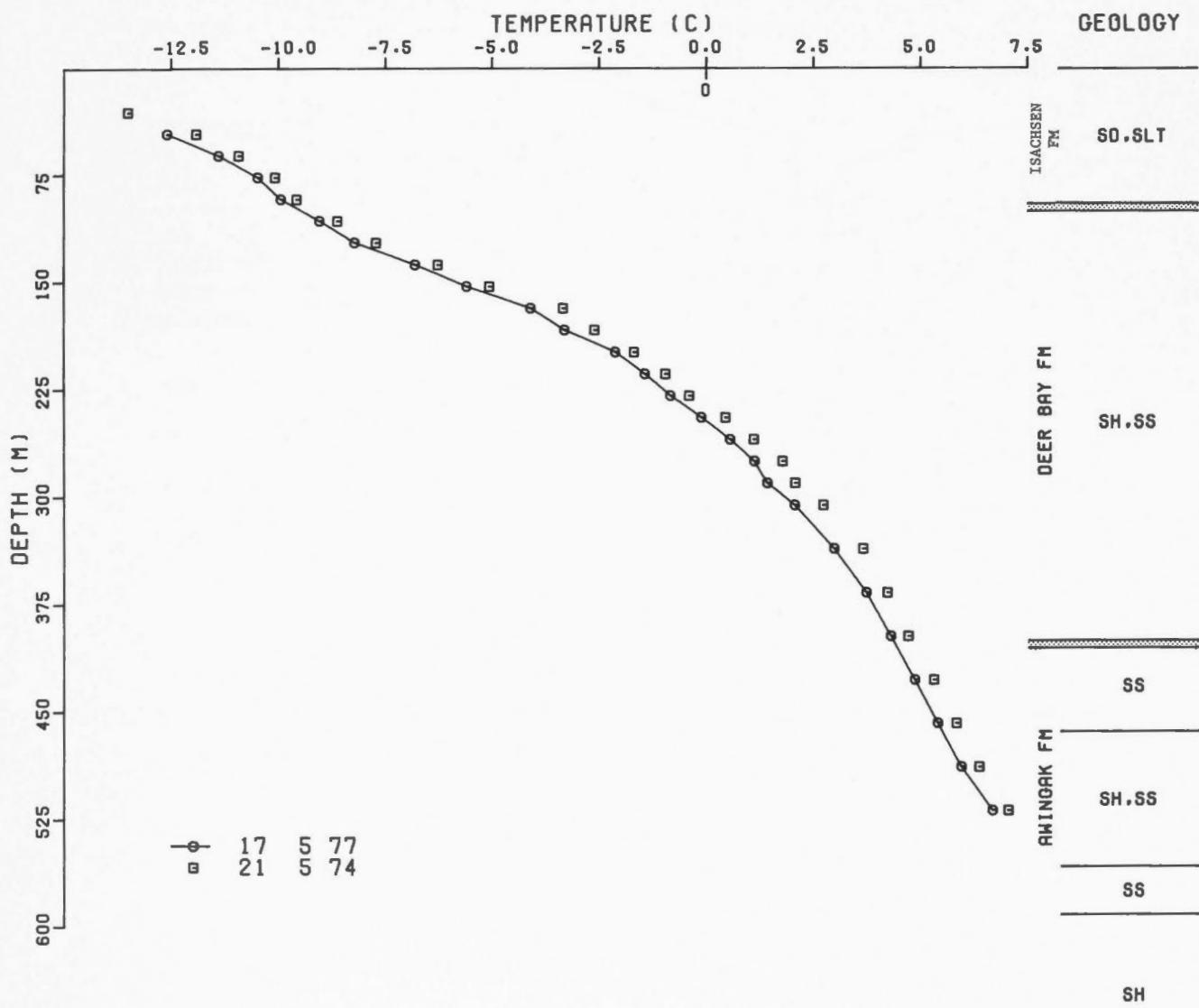
193 IKHIL I-37

68° 46.6' N 134° 7.8' W

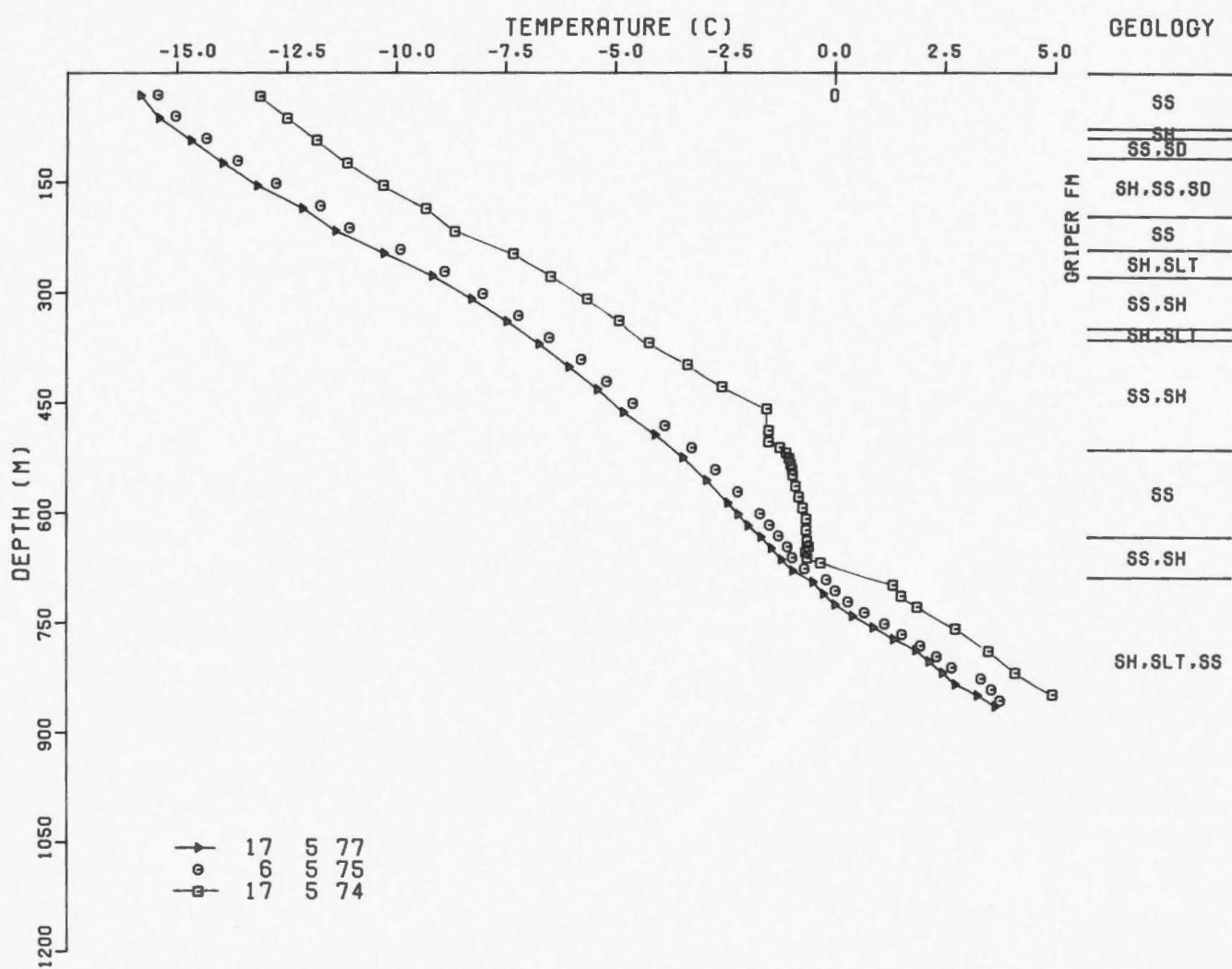


195 LINCKENS ISLAND P-46

77° 45.8' N 97° 45.4' W

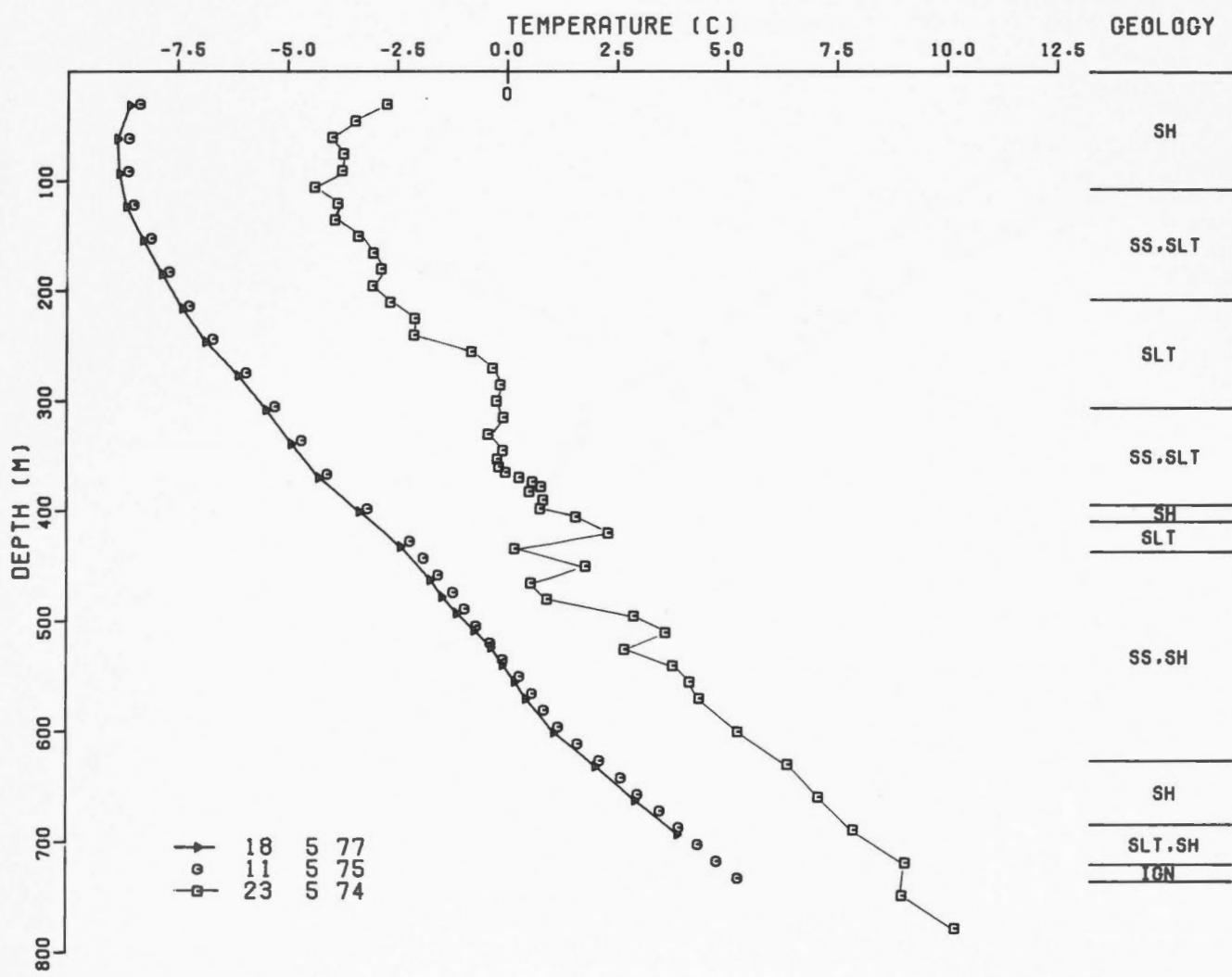


196 BENT HORN N-72
76° 21.8' N 103° 58.2' W



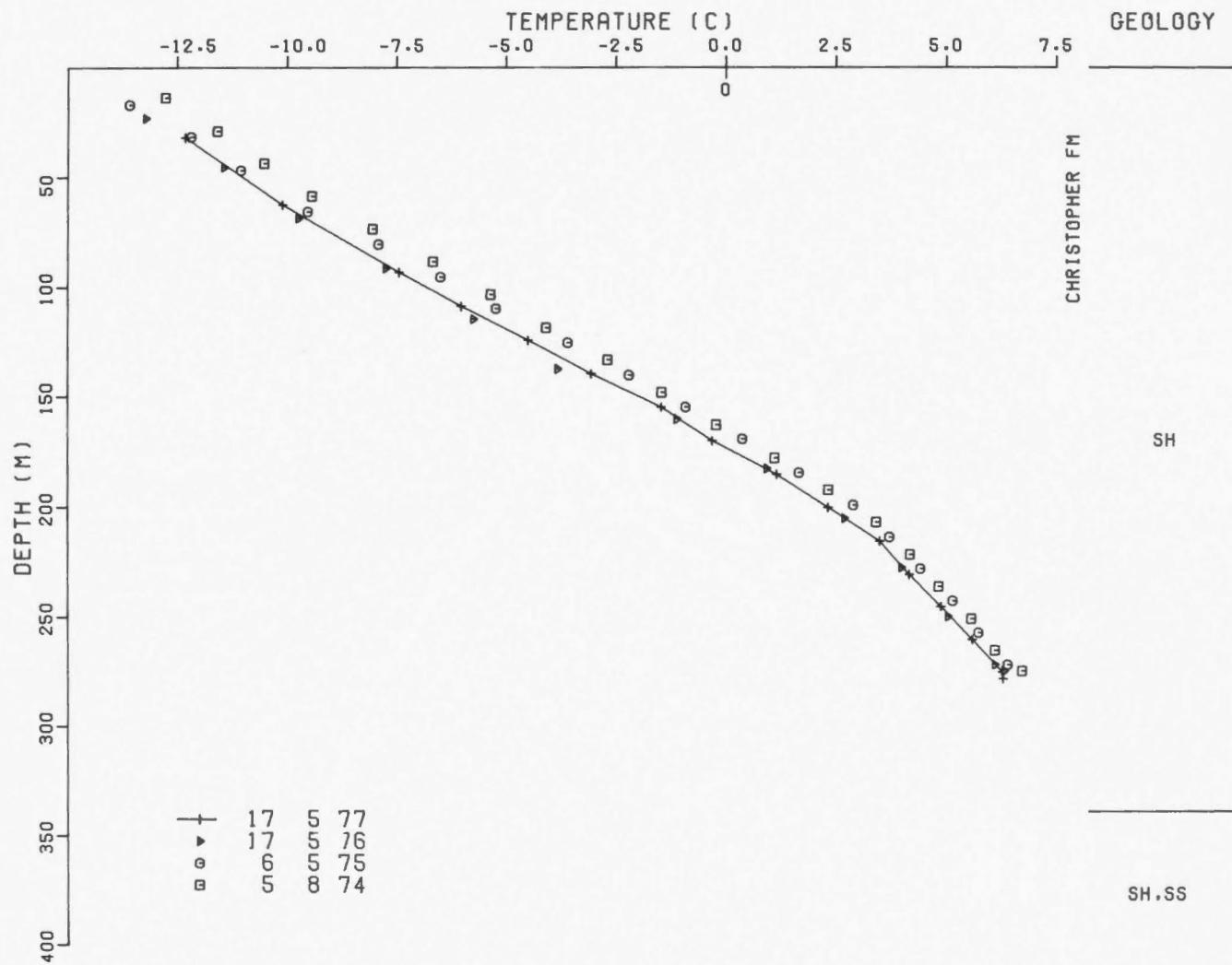
197 NEIL 0-15

80° 44.6' N 83° 4.8' W



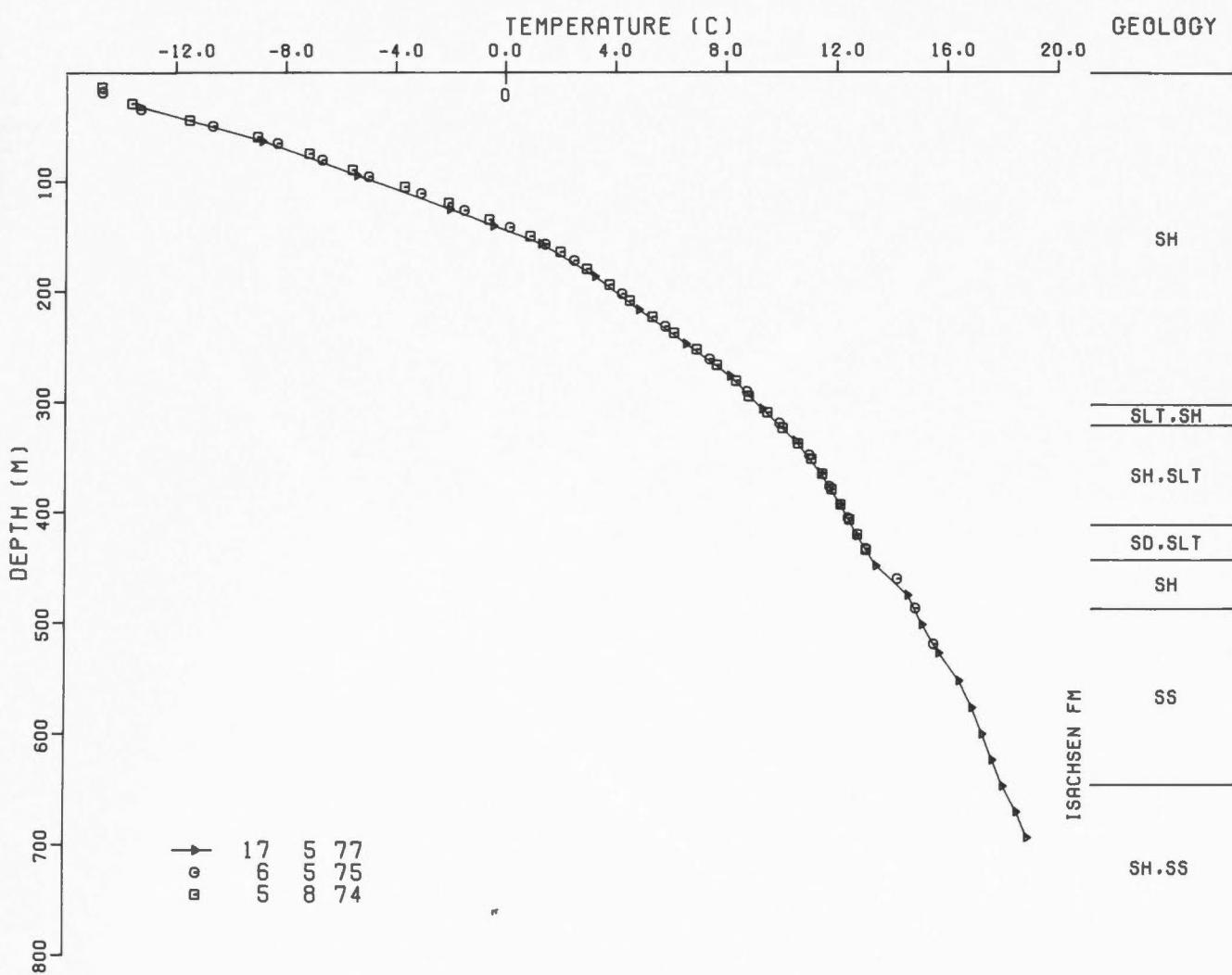
199 DRAKE E-78

76° 27.3' N 108° 29.4' W

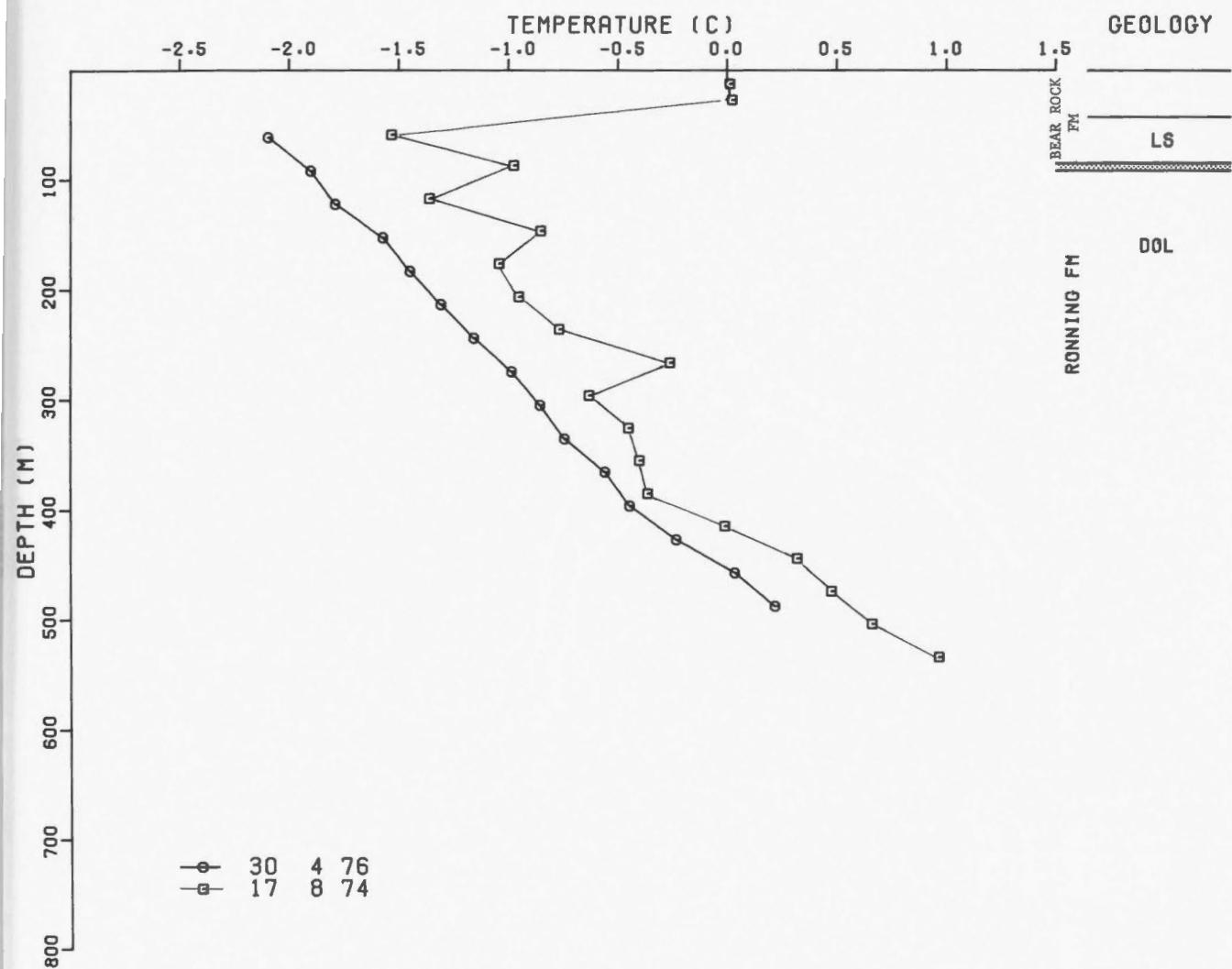


200 HECLA I-69

76° 18.7' N 110° 23.3' W

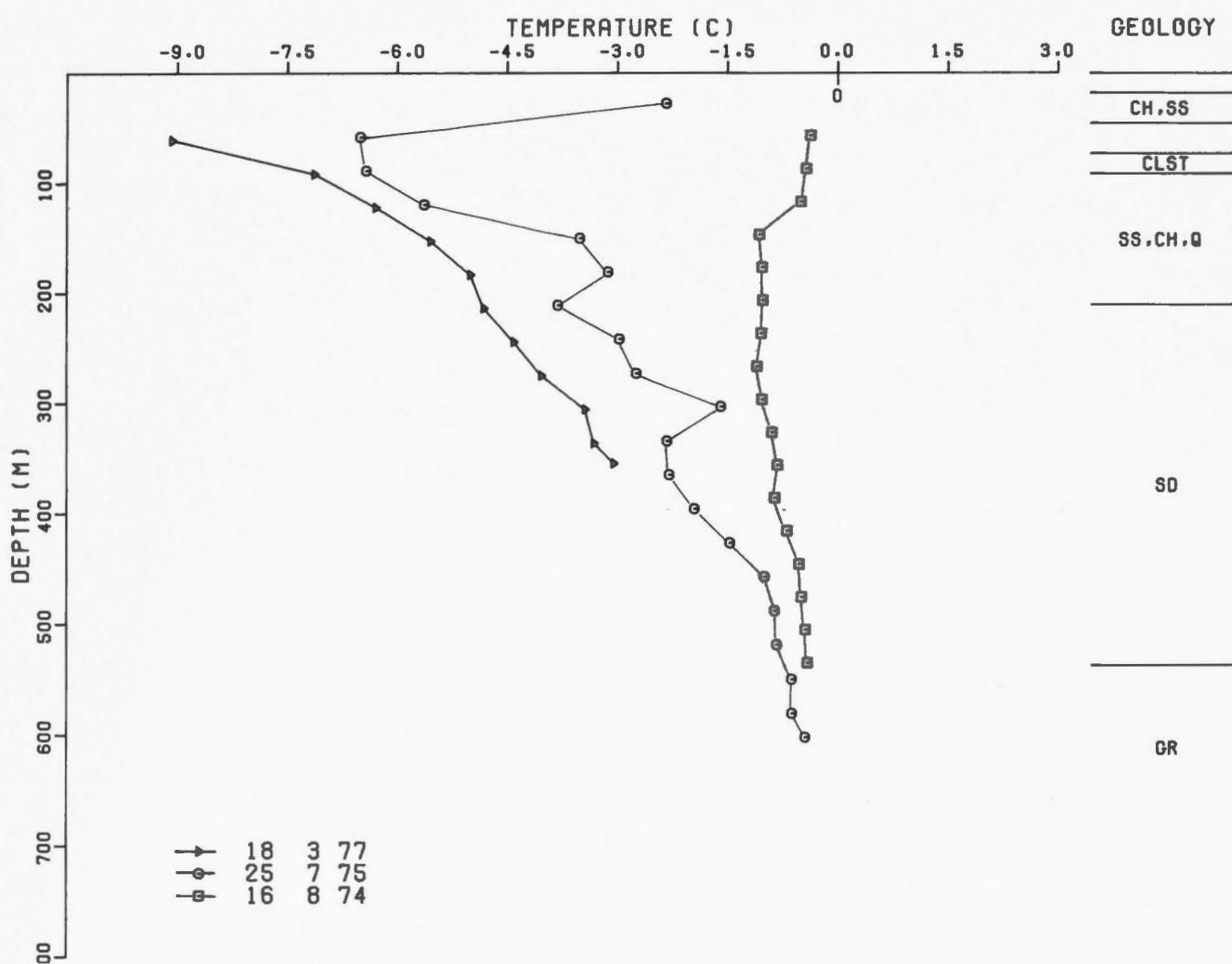


253 TEDJI LAKE K-24
67° 43.6' N 126° 49.9' W



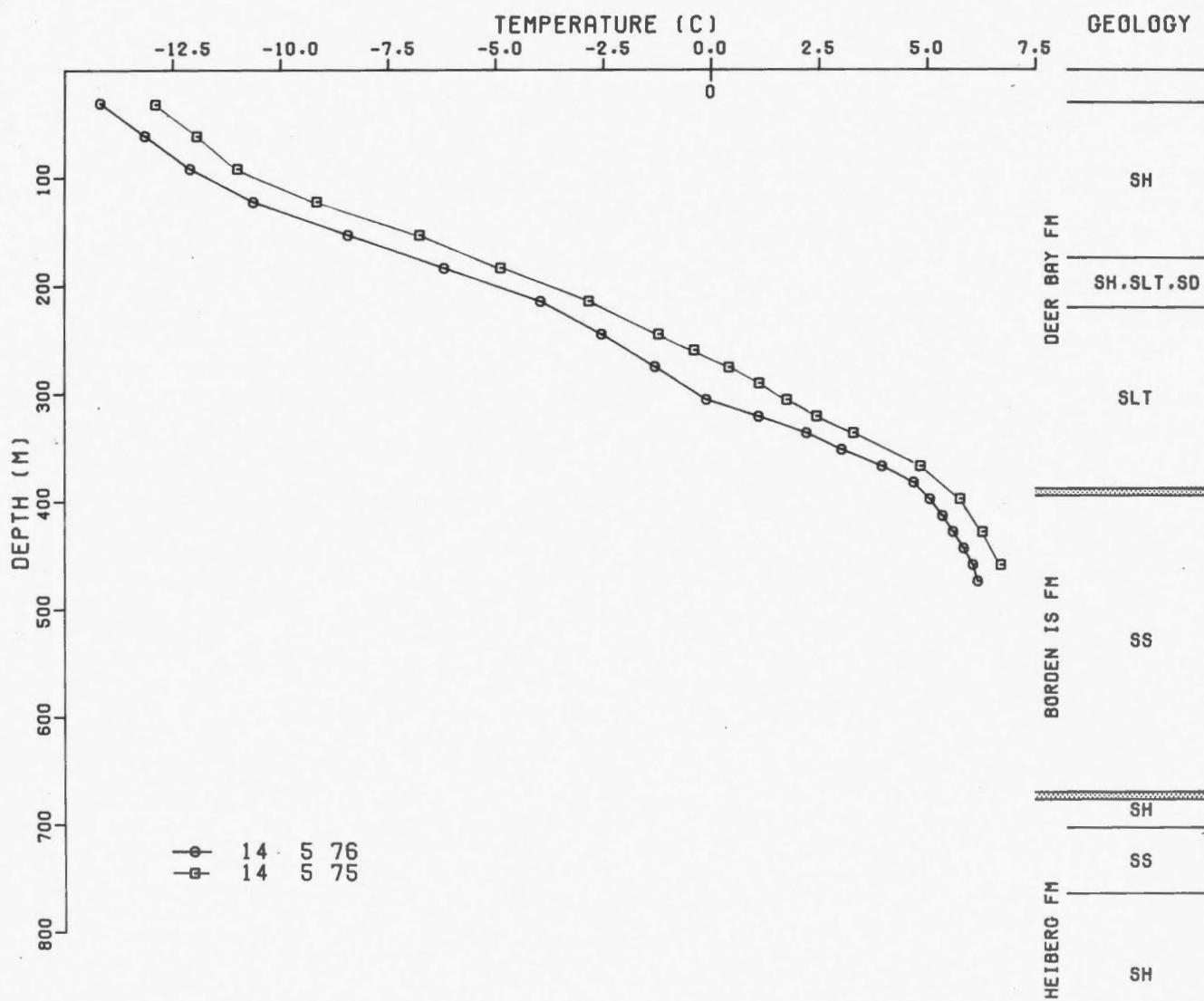
254 YA YA A-28

69° 17.2' N 134° 36.5' W



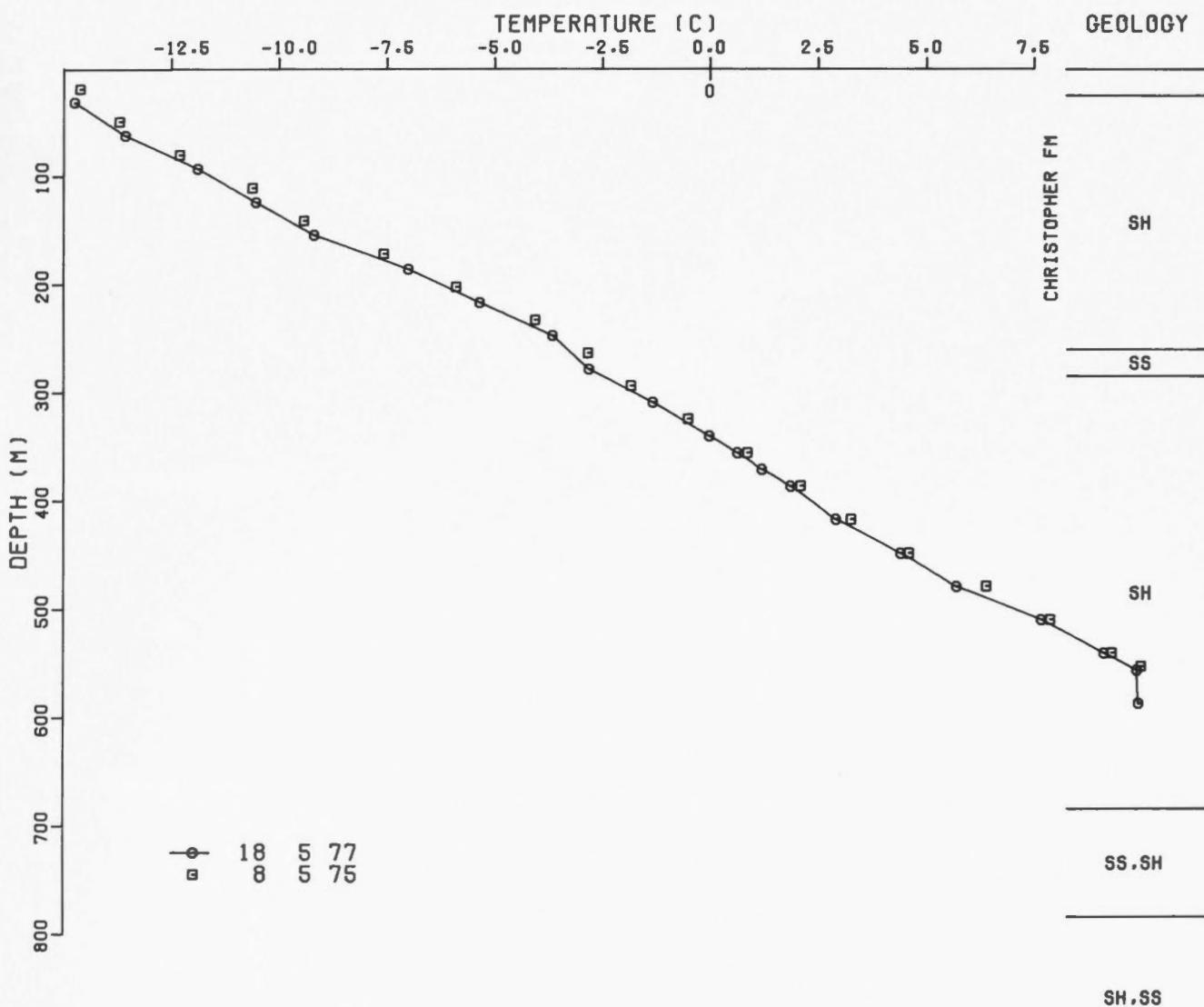
256 SUTHERLAND 0-23

77° 42.9' N 102° 8.6' W

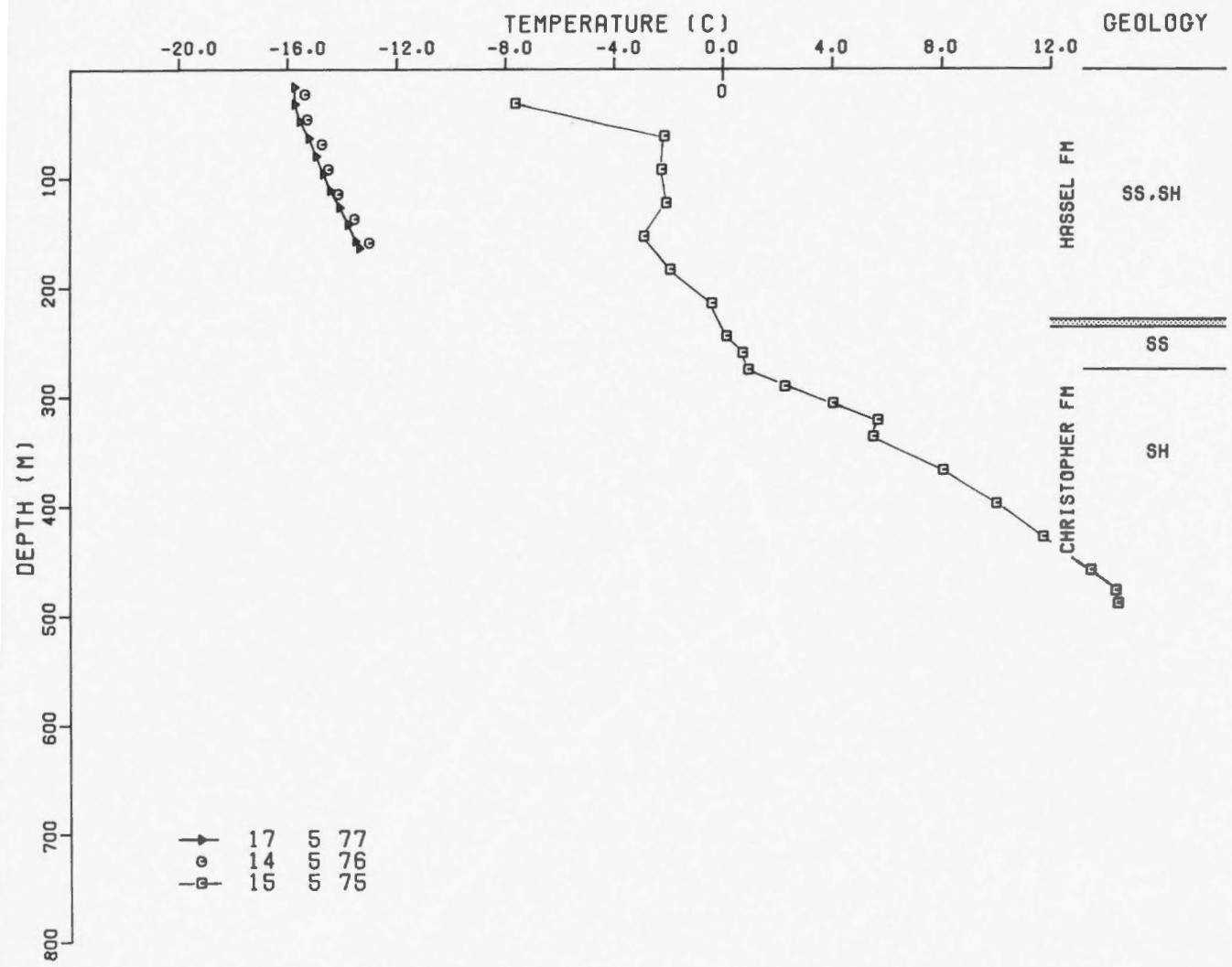


257 PEDDER POINT D-49

75° 38.2' N 118° 48.3' W

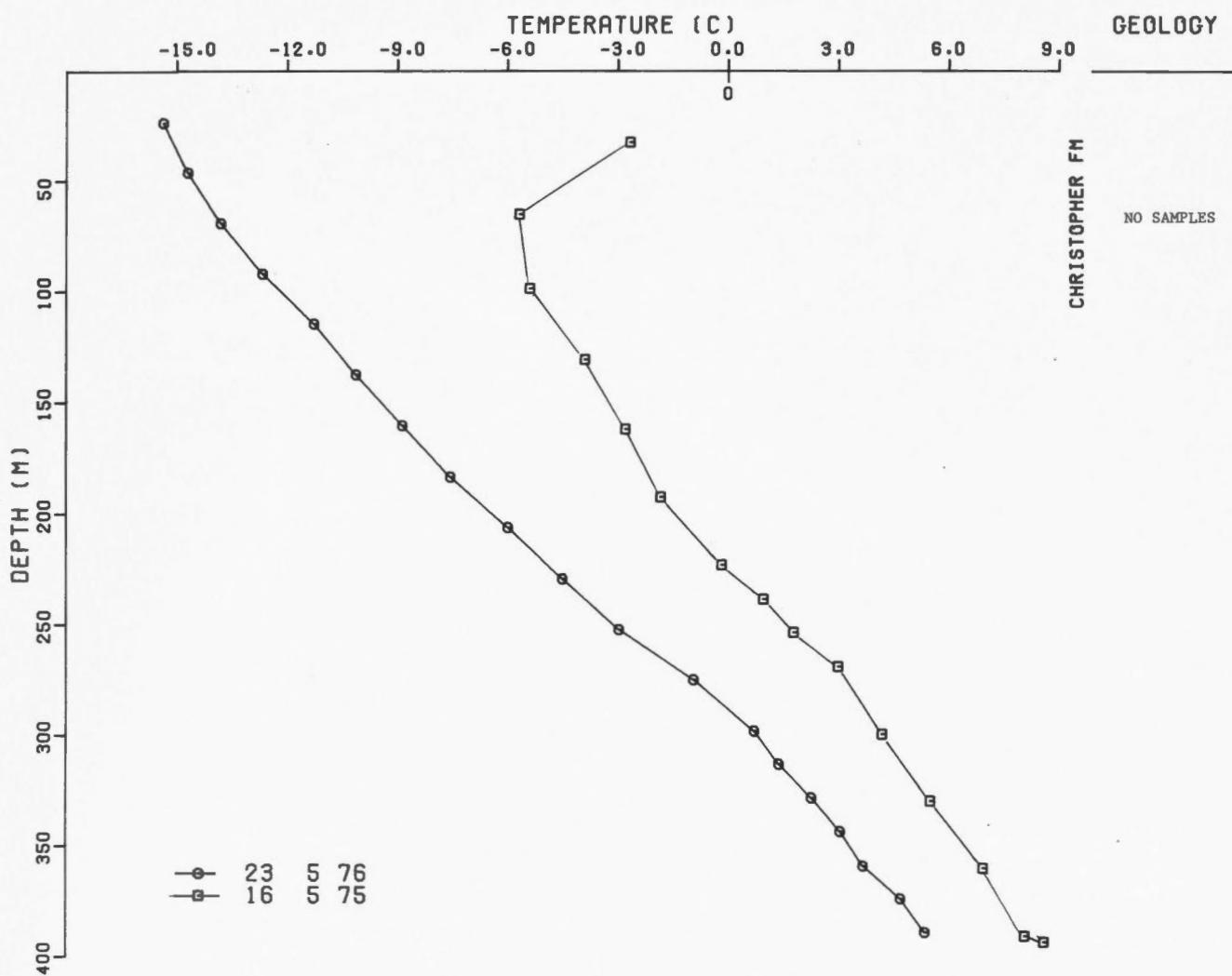


258 PAT BAY A-72
77° 21.0' N 105° 27.0' W

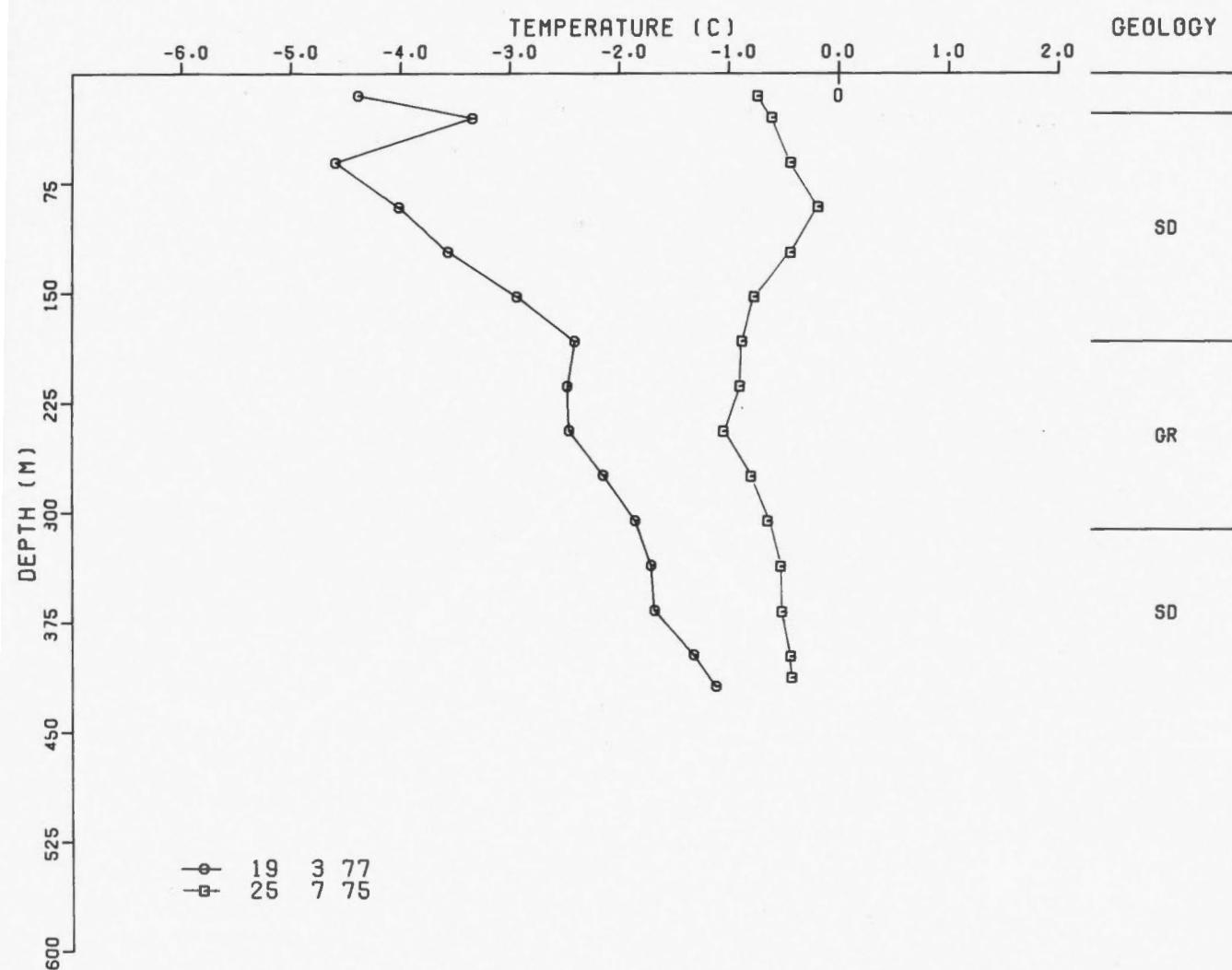


259 DRAKE D-73

76° 22.1' N 108° 29.5' W

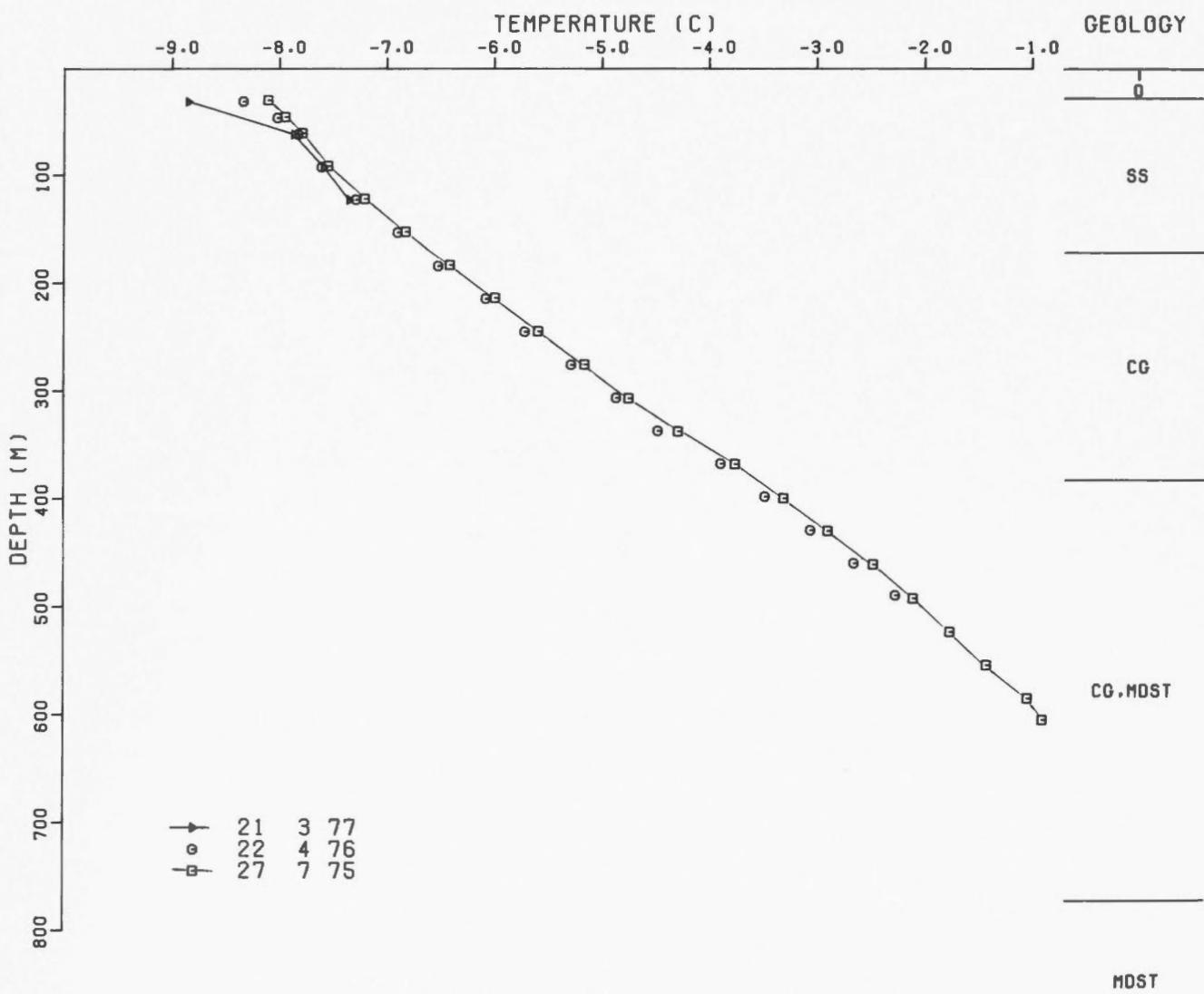


260 RED FOX P-21
69° 10.8' N 133° 35.0' W



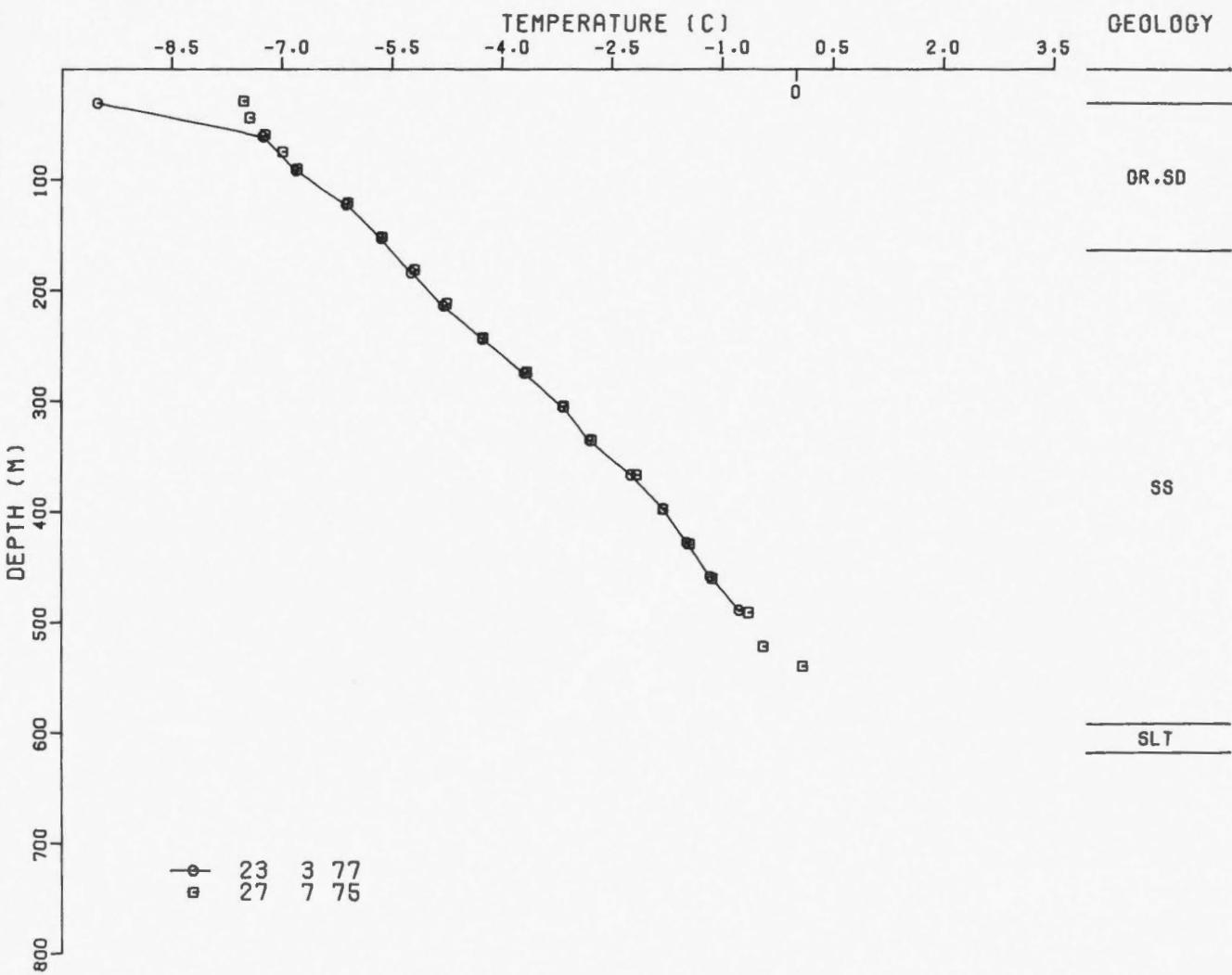
261 KIMIK D-29

69° 38.1' N 132° 22.2' W

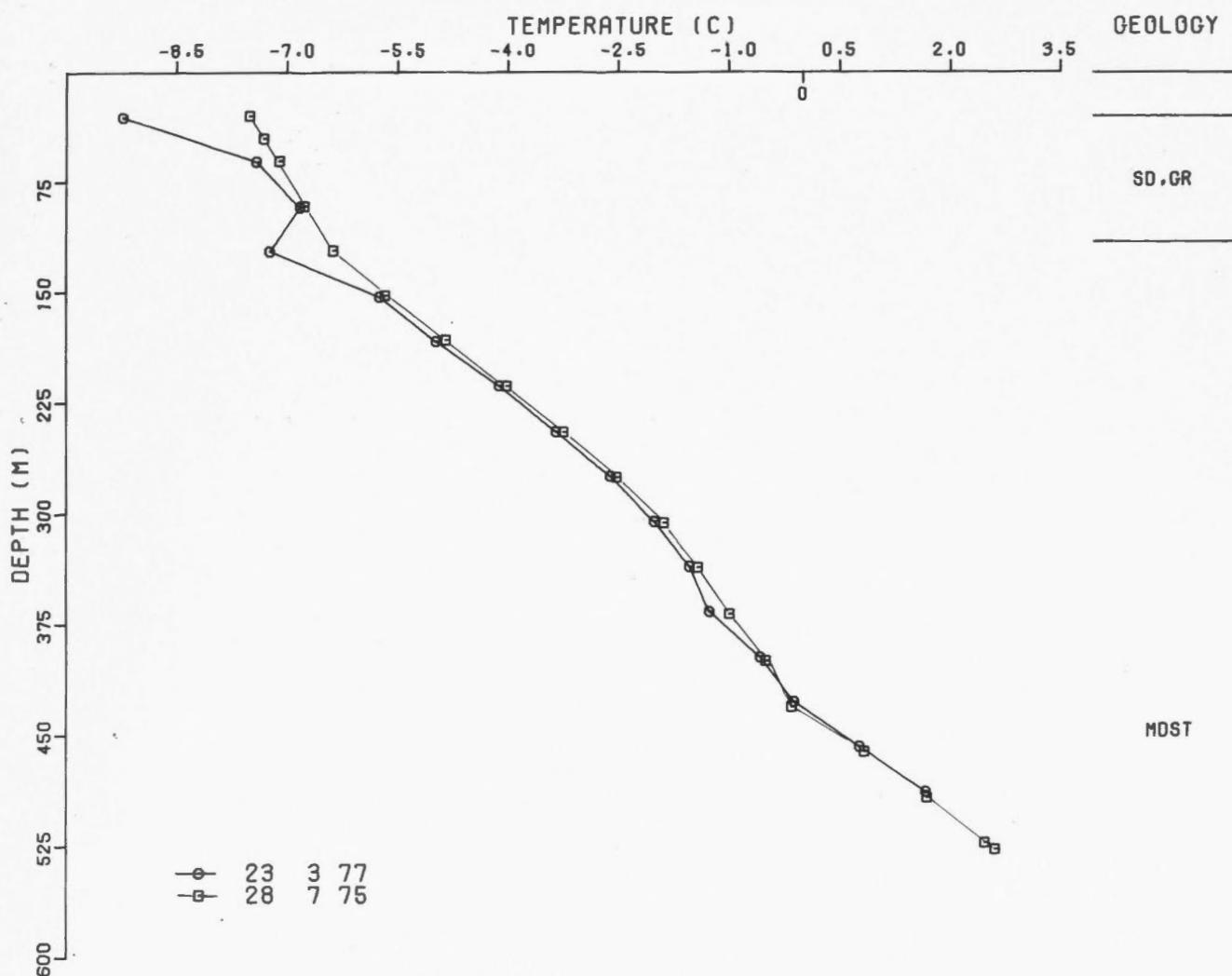


262 ATERTAK E-41

69° 30.5' N 132° 42.1' W

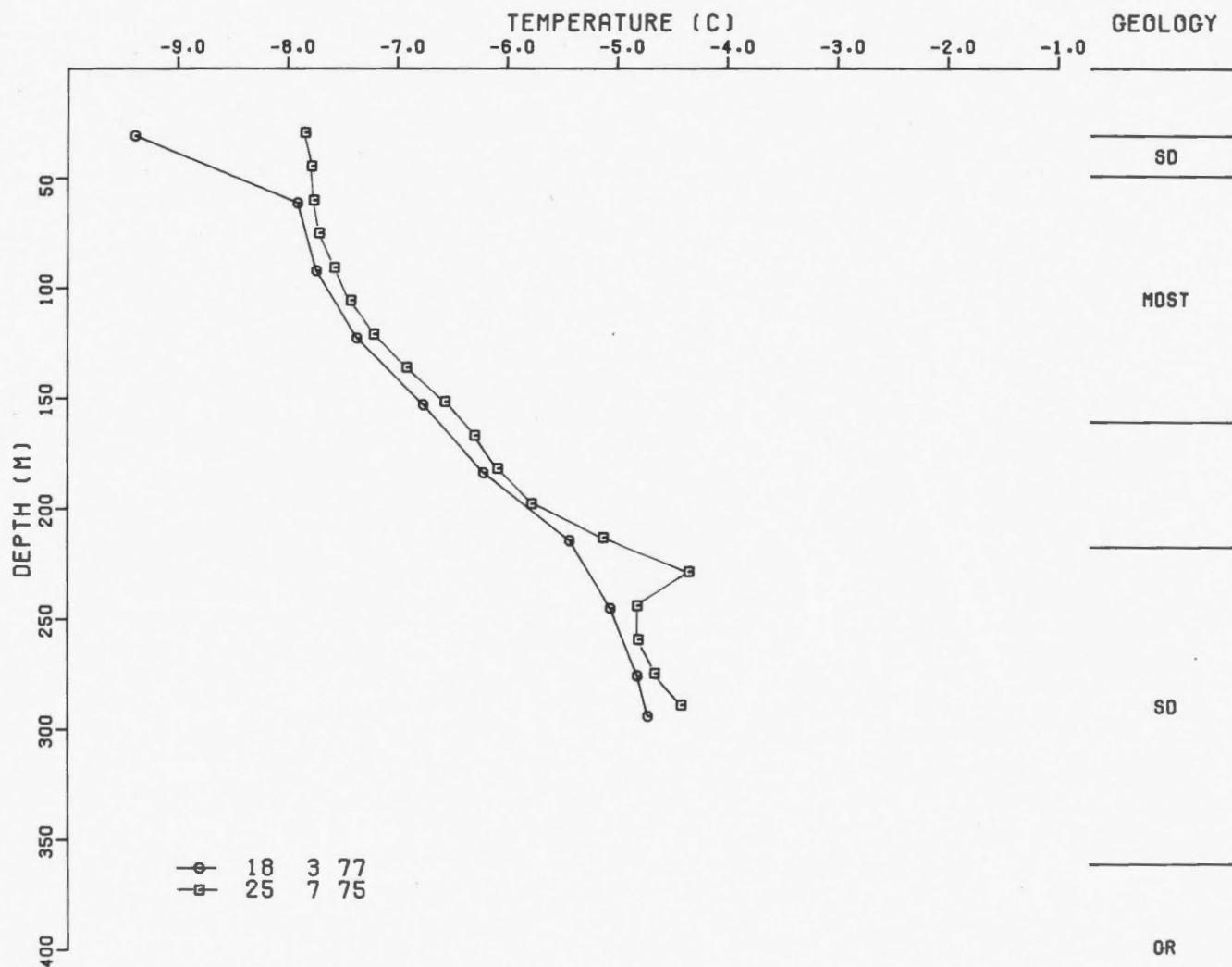


264 PIKIGLIK E-54
69° 23.2' N 132° 44.6' W



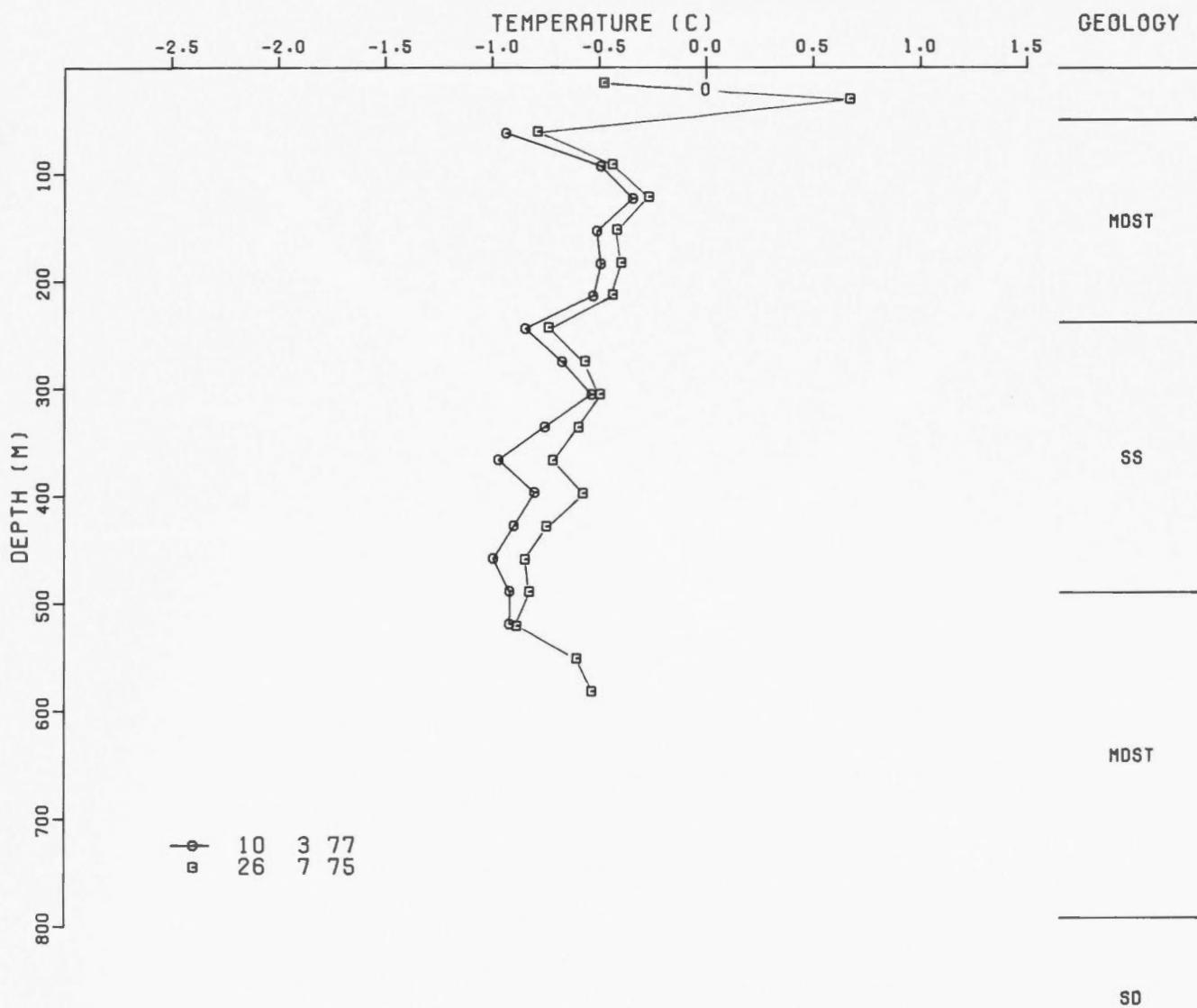
266 IVIK J-26

69° 35.7' N 134° 20.6' W



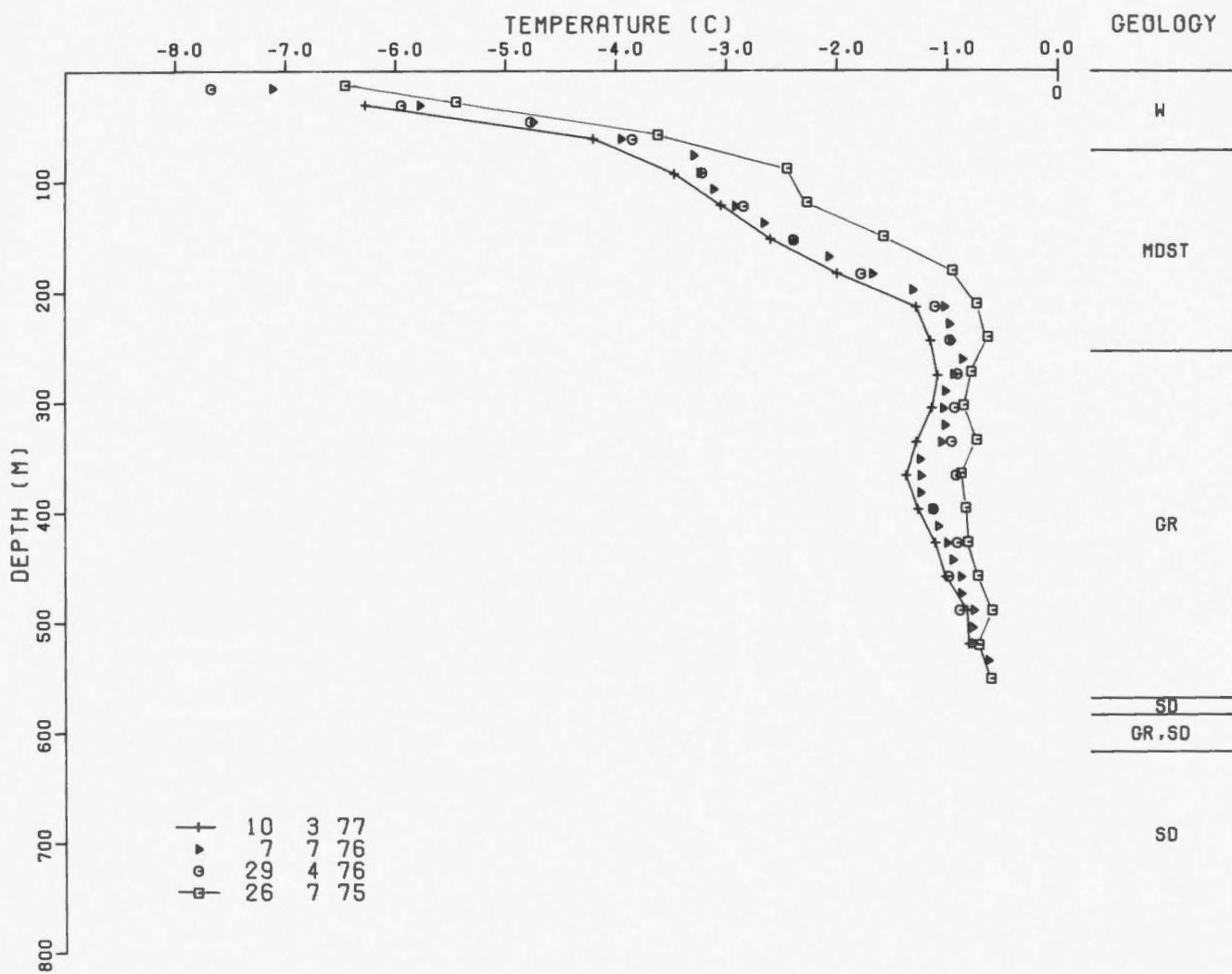
267 TAGLU C-42

69° 21.0' N 134° 56.6' W



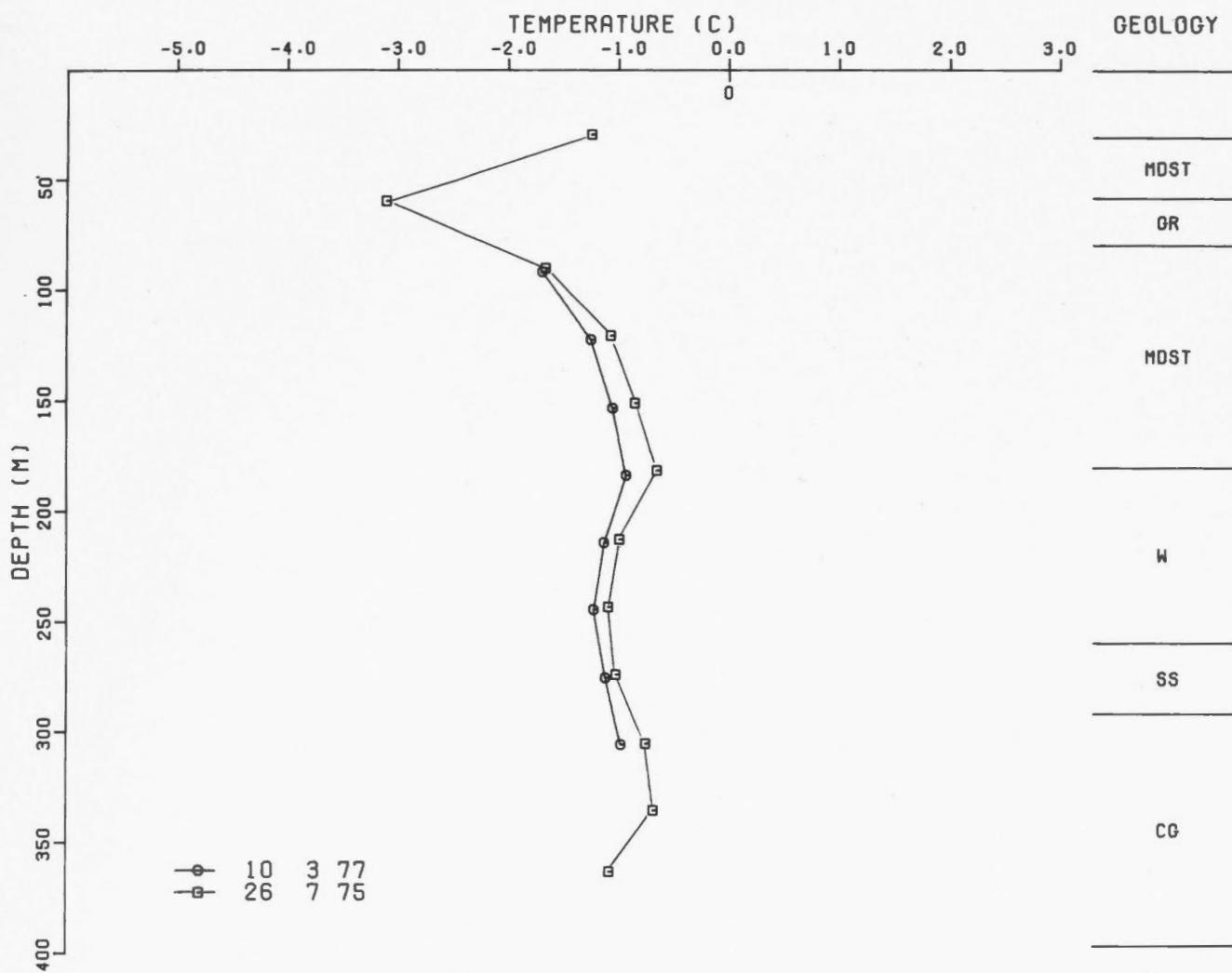
268 TAGLU D-43

69° 22.3' N 134° 56.8' W

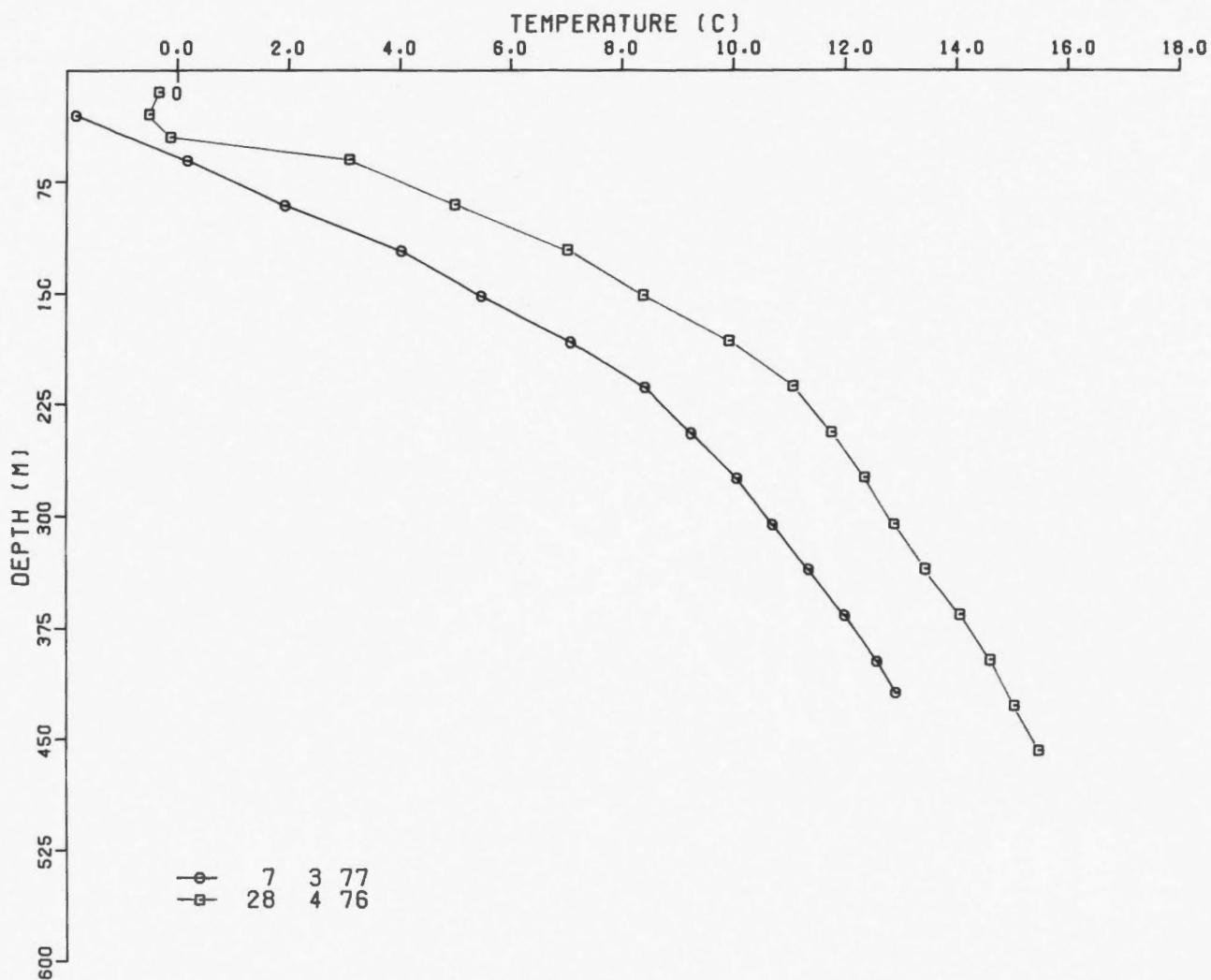


269 TAGLU D-55

69° 24.2' N 134° 59.6' W

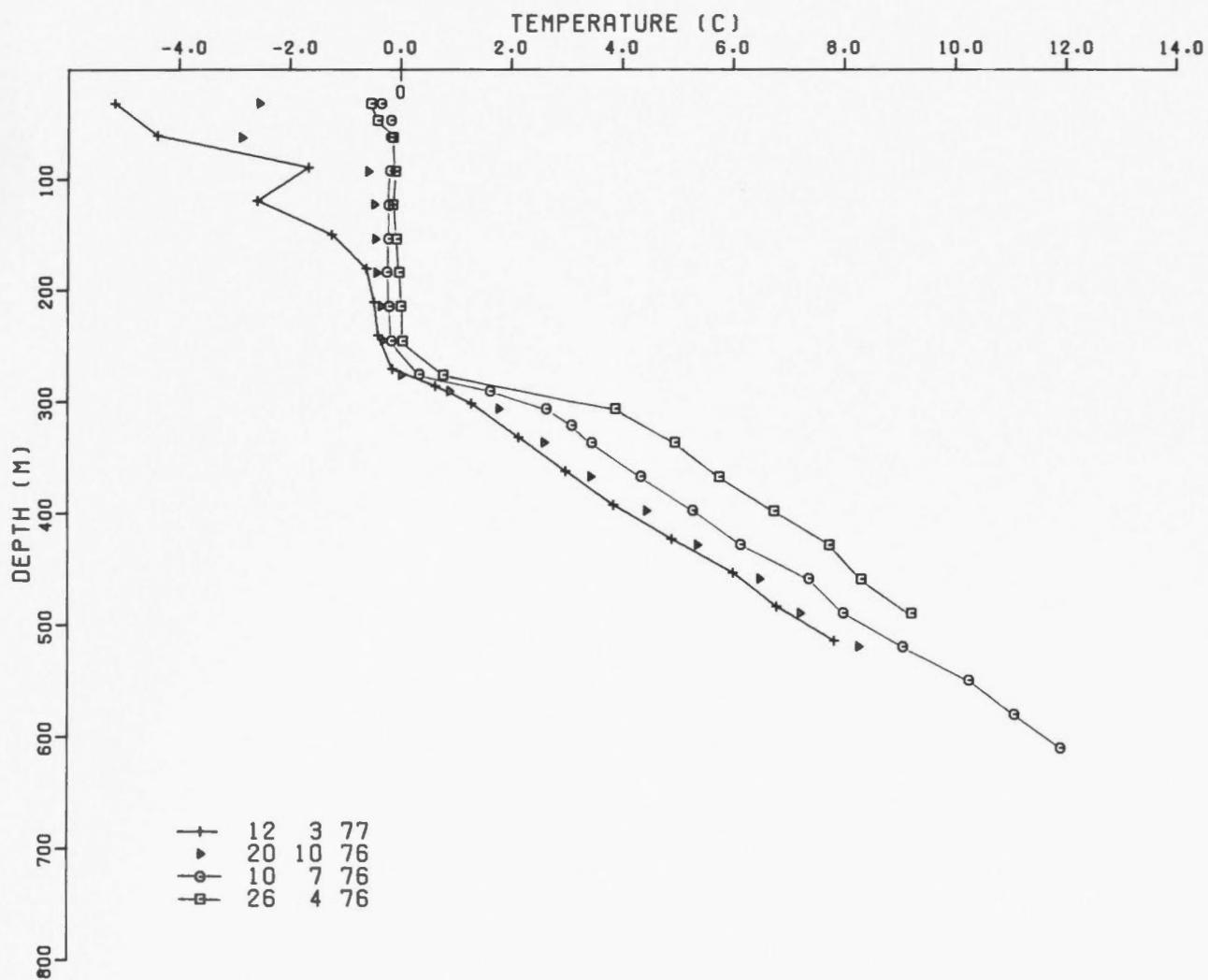


271 NORTH ELLICE J-23
69° 12.6' N 135° 51.2' W

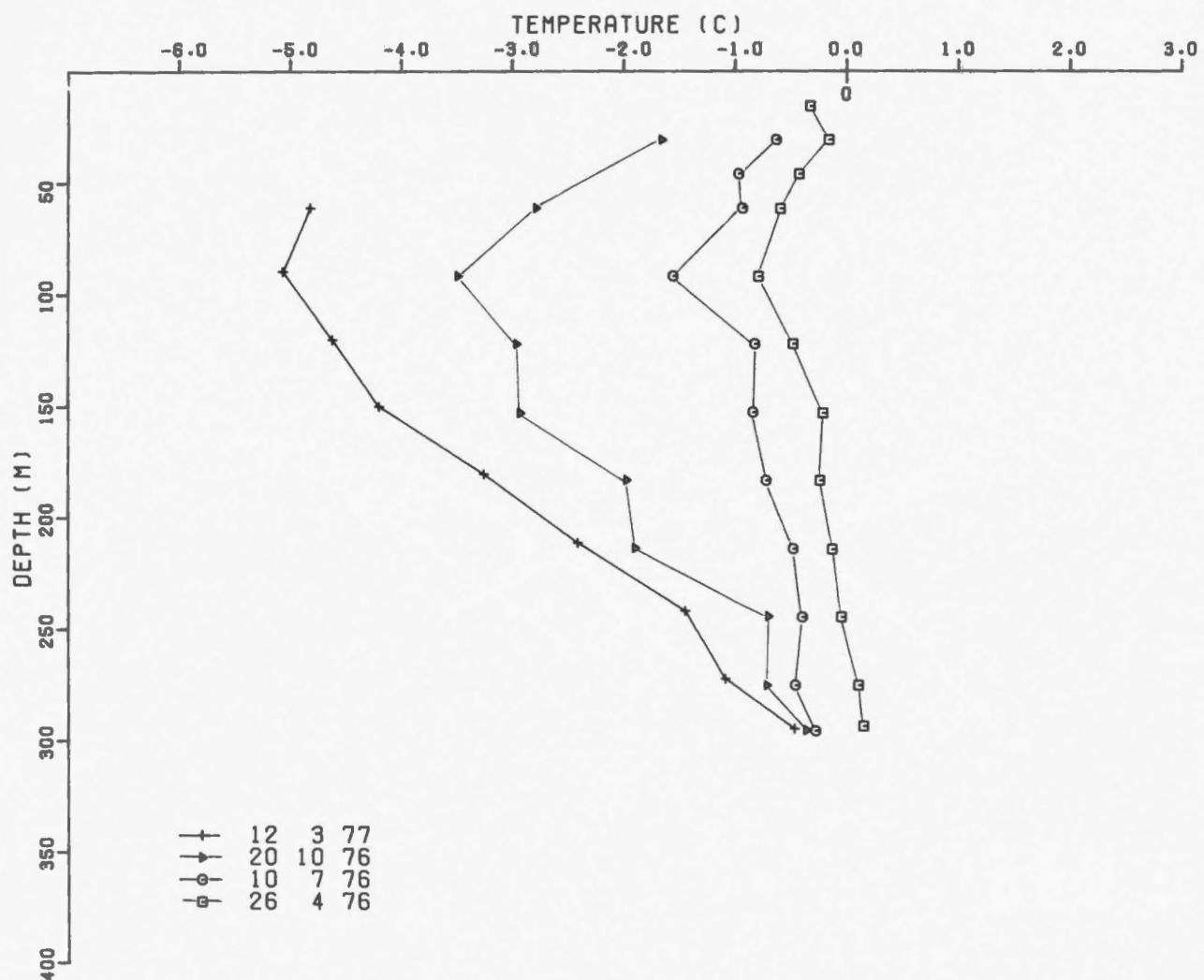


272 PARSONS L-43

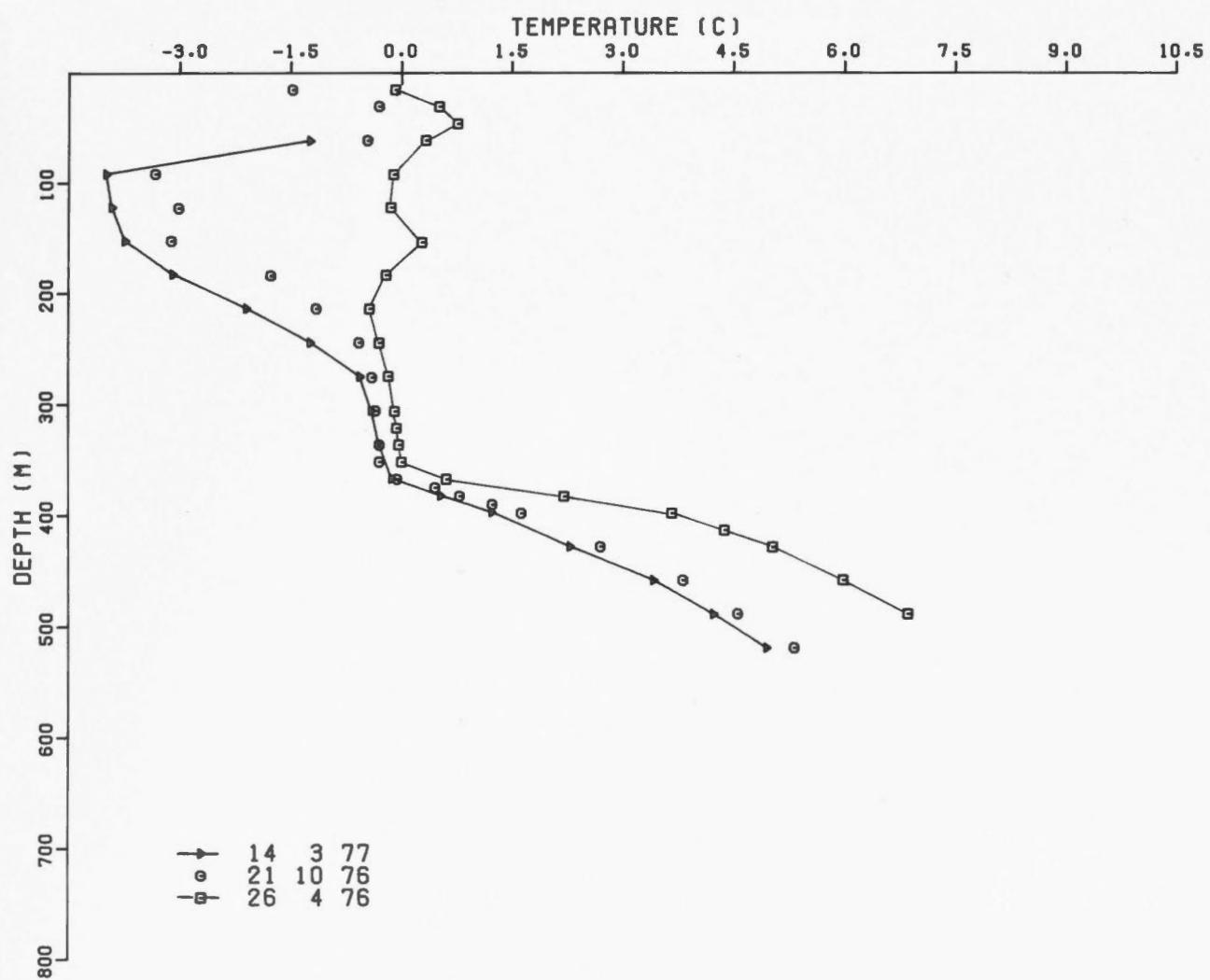
68° 52.6' N 133° 41.9' W



273 KAMIK D-48
68° 57.2' N 133° 27.5' W

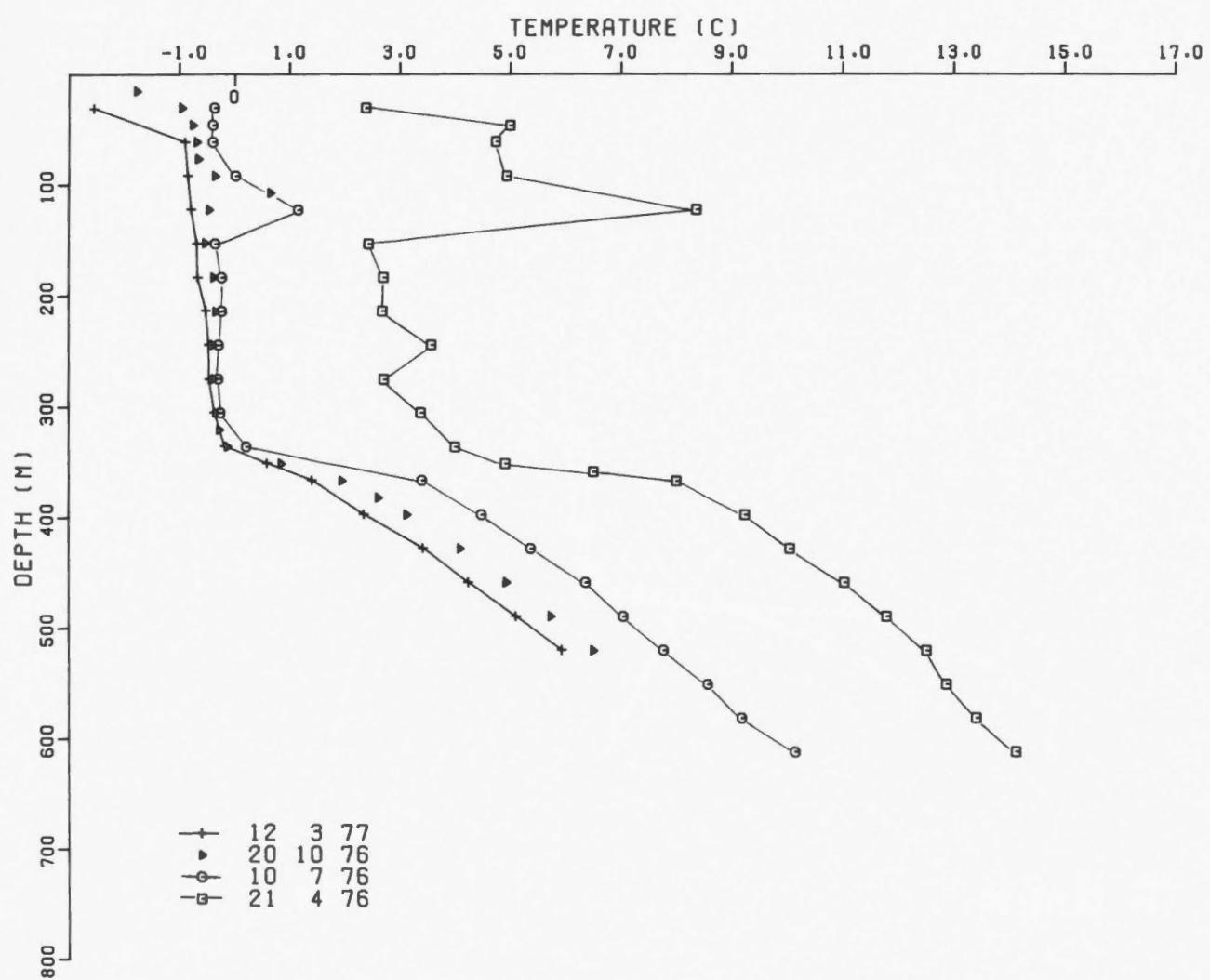


274 SIKU C-11
69° 0.0' N 139° 33.6' W



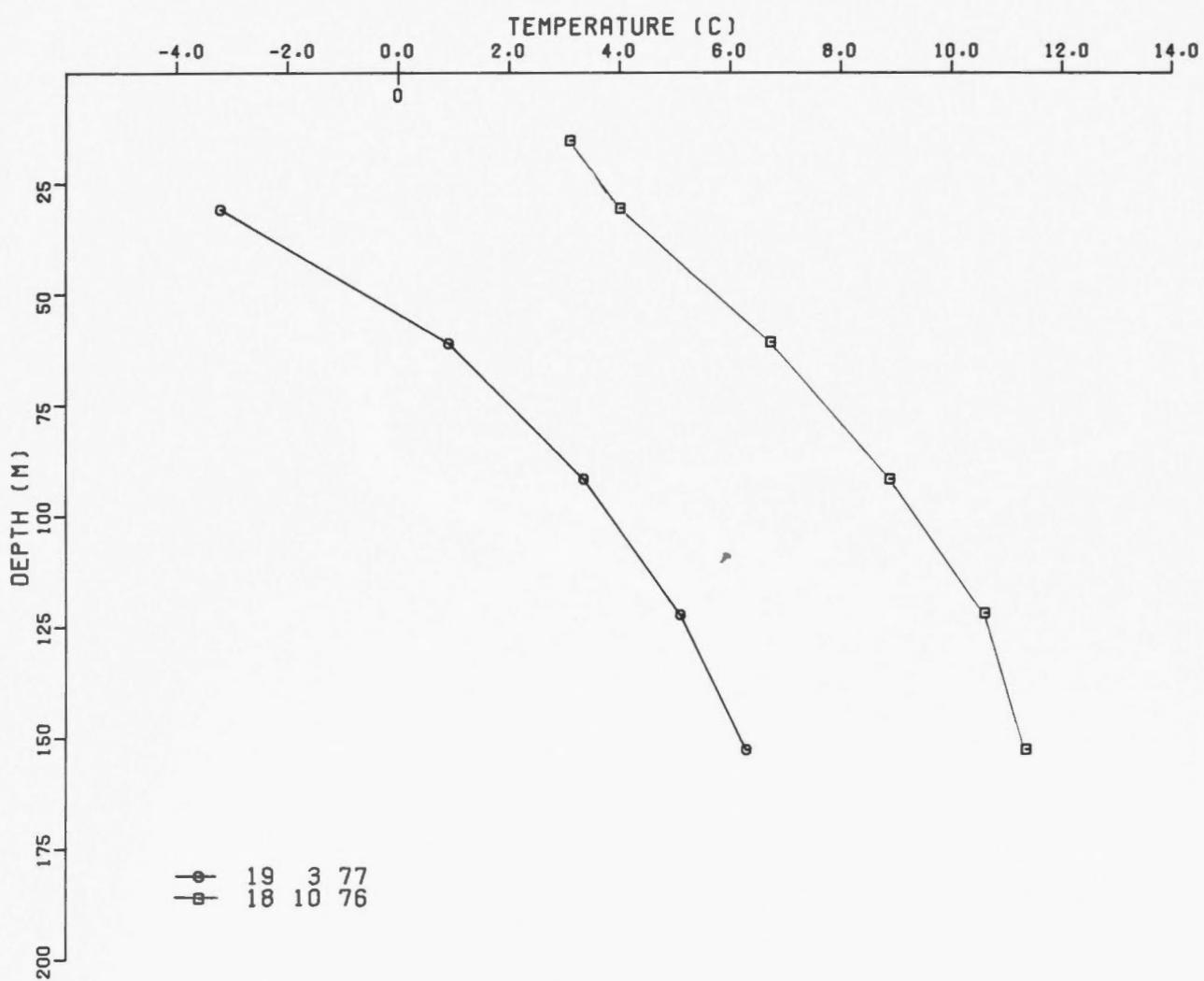
275 PARSONS N-17

68° 56.9' N 133° 34.0' W

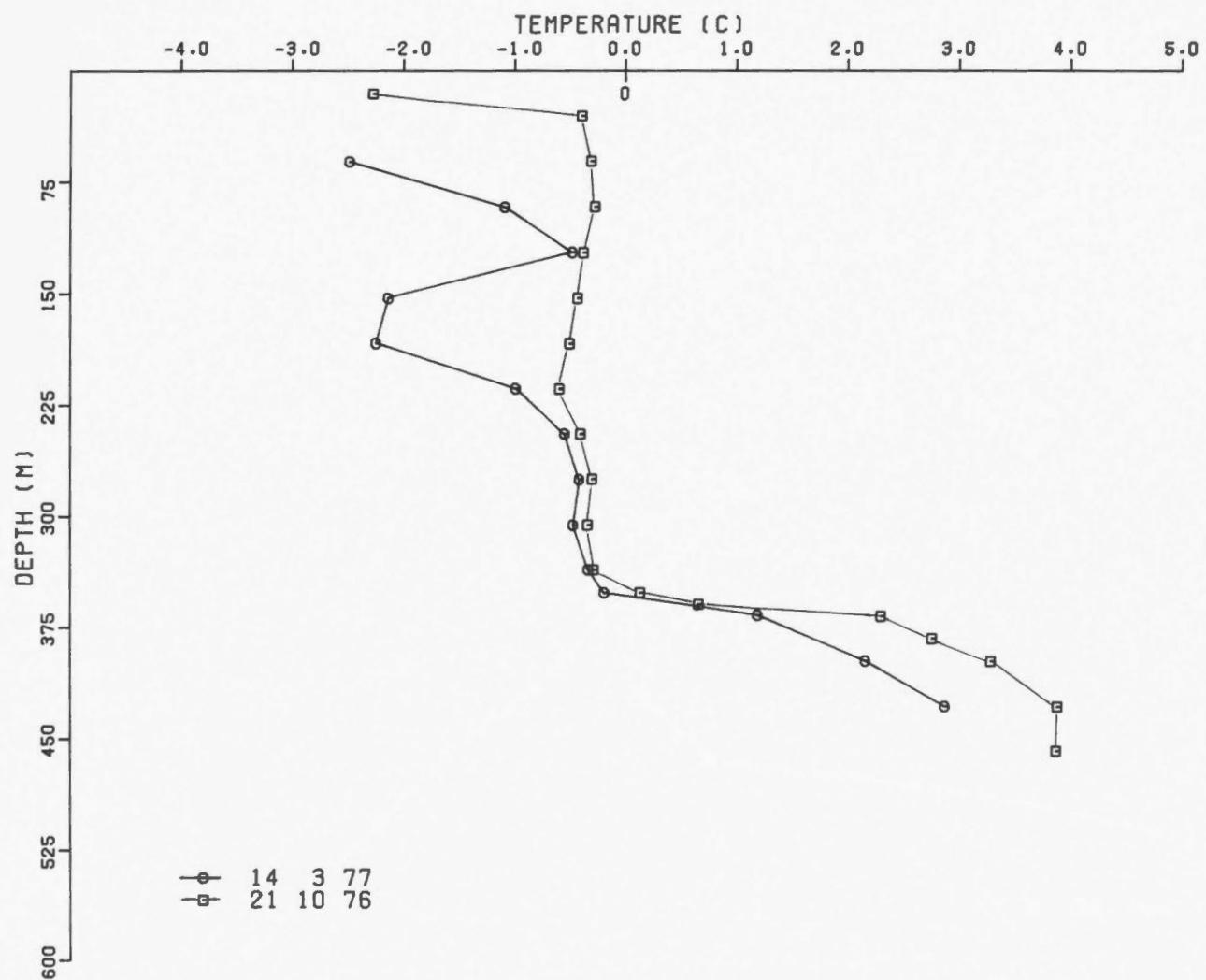


276 ULU A-35

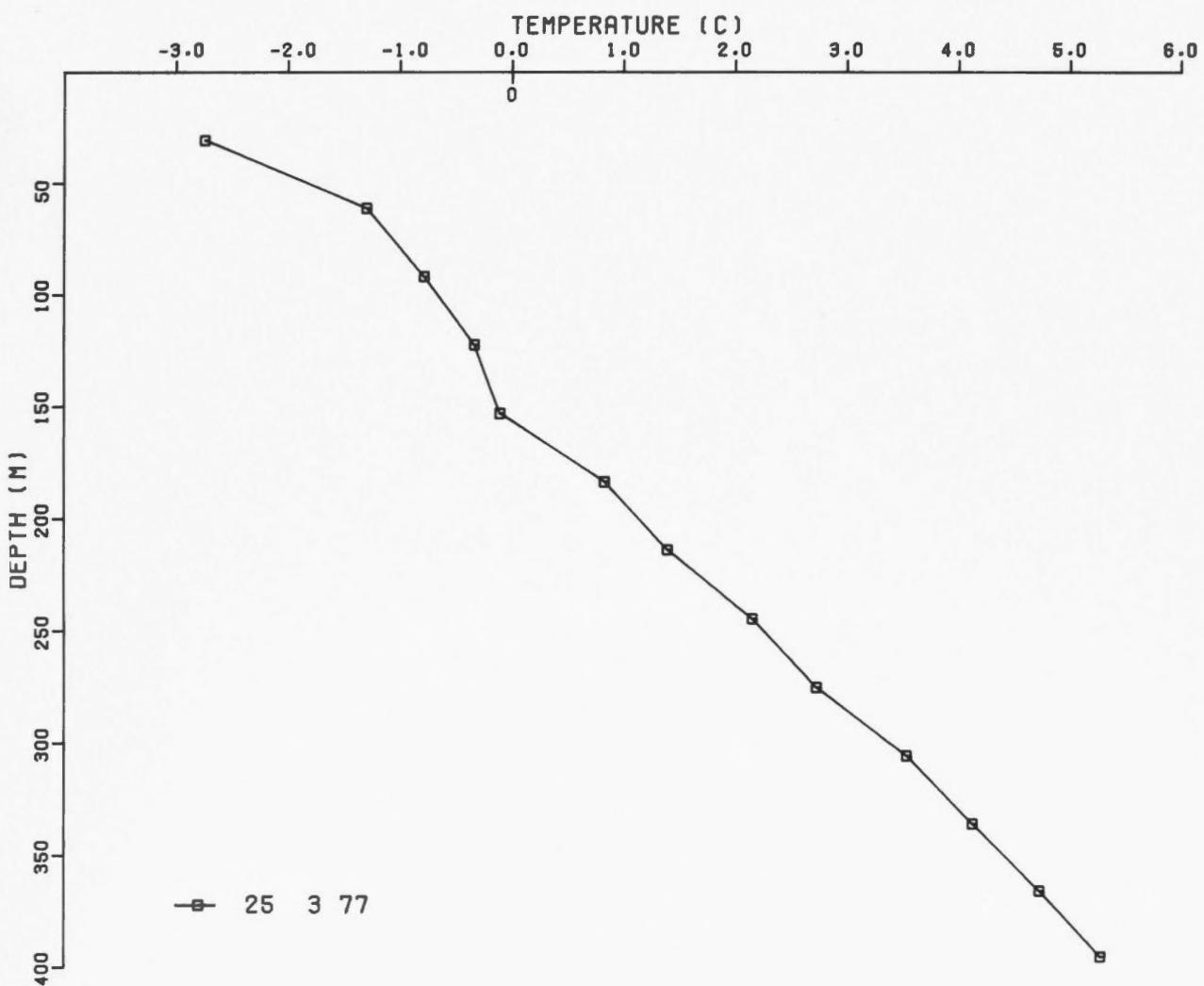
68° 44.0' N 135° 52.9' W



277 SIKU A-12
69° 1.0' N 133° 32.6' W

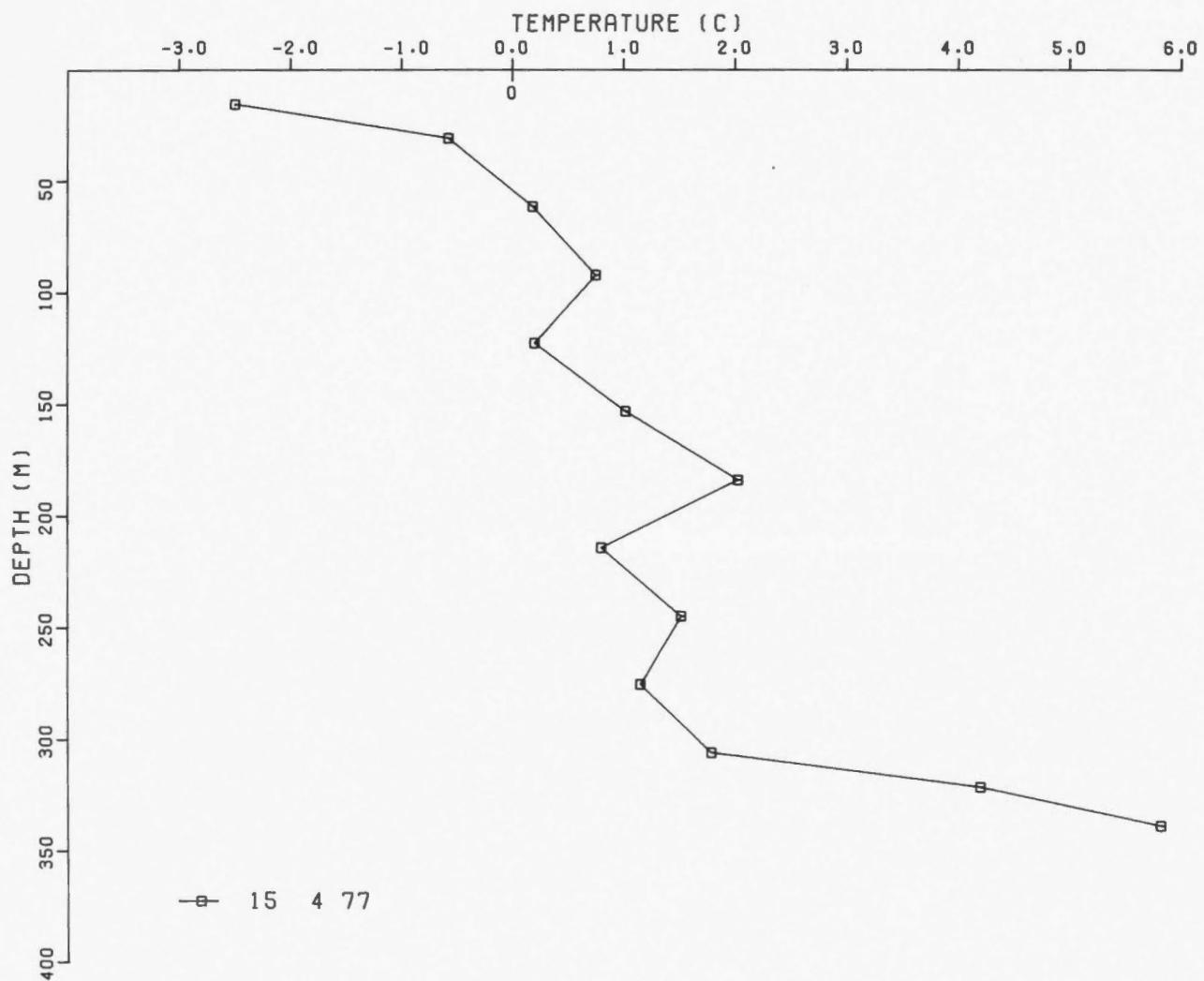


278 NIGLINTGAK B-19
69° 18.2' N 135° 18.3' W



279 PARSONS L-37

68° 56.7' N 133° 39.9' W



3.3 Tables of Equilibrium Temperature

EARTH PHYSICS BRANCH HOLE NO. 77 MORTON RIVER

LATITUDE 69 DEGREES 51.4 MINUTES NORTH LONGITUDE 127 DEGREES 15.9 MINUTES WEST
ELEVATION 34 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EC) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EC)+0.1 (YEARS)
25	-7.80	.06	8.03	.41	14.20
53	-6.61	.04	6.29	.25	11.11
75	-5.05	.01	5.41	.06	9.55
100	-3.21	.02	3.62	.12	6.37
125	-1.34	.08	4.90	.58	8.63
150	.45	.27	7.49	1.85	13.24
175	2.75	.15	6.54	1.02	11.55
200	4.90	.10	5.17	.70	9.11
225	6.59	.05	4.04	.37	7.11
250	7.97	.06	4.12	.43	7.26
275	9.44	.01	3.27	.03	5.74
300	10.63	.01	3.16	.06	5.54
325	12.19	.08	1.59	.53	2.74
350	13.19	.00	3.05	.00	5.34

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

26 9 70
14 8 71
11 7 76

FARTH PHYSICS BRANCH HOLE NO. 86 HOOODOO DOME H-37

LATITUDE 78 DEGREES 6.5 MINUTES NORTH LONGITUDE 99 DEGREES 45.6 MINUTES WEST
ELEVATION 156 METERS

LOGARITHMIC RETURN TO EQUILIBRTUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
25	-16.68	.04	6.81	.10	44.44
50	-15.00	.06	5.78	.15	37.70
75	-13.07	.10	4.33	.26	28.13
100	-11.31	.09	4.20	.23	27.29
125	-9.74	.07	4.43	.19	28.77
150	-8.47	.07	4.54	.19	29.55
175	-7.01	.07	4.34	.18	28.18
200	-5.44	.08	3.90	.22	25.32
225	-3.92	.14	3.42	.37	22.13
250	-2.48	.23	3.09	.61	19.97
275	-1.56	.22	4.26	.58	27.68
300	-.41	.32	4.44	.85	28.90
325	1.42	.16	3.17	.41	20.49
350	2.67	.10	2.86	.27	18.47
375	3.80	.08	2.71	.22	17.52
400	4.80	.05	2.61	.13	16.85
425	5.55	.04	2.32	.10	14.94
450	6.05	.03	2.15	.09	13.83
475	6.56	.03	2.13	.09	13.68
500	7.17	.07	2.14	.18	13.77
525	7.81	.03	2.07	.09	13.27
550	8.29	.02	2.00	.06	12.82
575	8.67	.03	1.96	.08	12.59

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

9 F 71
12 F 72
13 F 73
14 S 76

EARTH PHYSICS BRANCH HOLE NO. 114 ASBESTOS HILL -2

LATITUDE 61 DEGREES 47.8 MINUTES NORTH LONGITUDE 73 DEGREES 58.4 MINUTES WEST
 ELEVATION 465 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
2.6	-8.95	.07	1.96	.46	.10
15.8	-7.69	.02	1.16	.10	.06
29.0	-7.55	.02	1.63	.10	.09
42.2	-7.28	.00	.95	.02	.05
55.4	-7.18	.02	.64	.14	.03
68.6	-7.04		.33		.02
81.8	-7.03	.10	.58	.64	.03
108.2	-6.83	.03	.47	.19	.02
121.4	-6.69		1.83		.10

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

25 7 74
 29 7 74
 30 7 74
 14 7 76

EARTH PHYSICS BRANCH HOLE NO. 155 KRISTOFFER RAY B-06

LATITUDE 78 DEGREES 15.3 MINUTES NORTH LONGITUDE 102 DEGREES 32.0 MINUTES WEST
ELEVATION 15 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T (EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
25	-17.24		5.88		19.00
50	-15.49	.01	4.54	.02	14.64
75	-14.54	.03	4.27	.05	13.76
100	-13.60	.02	4.49	.05	14.48
125	-12.56	.04	4.49	.08	14.48
150	-11.67	.04	4.92	.08	15.55
175	-10.94	.05	5.26	.10	16.98
200	-10.17	.05	5.59	.09	18.06
225	-9.31	.04	5.71	.09	18.44
250	-8.20	.05	5.53	.11	17.88
275	-7.16	.03	5.45	.07	17.62
300	-6.13	.05	4.59	.11	14.81
325	-5.12	.10	3.41	.20	10.96
350	-4.34	.07	3.52	.13	11.31
375	-3.50	.05	4.41	.10	14.20
400	-2.43	.07	5.06	.15	16.35
425	-1.36	.14	5.03	.27	16.25
450	.37	.05	4.91	.09	15.52
475	1.84	.04	4.66	.29	15.02
500	3.19	.04	4.60	.25	14.83
525	4.65	.06	4.48	.41	14.43
550	6.03	.05	4.43	.31	14.27
575	7.34	.06	3.99	.39	12.85
600	8.65	.06	3.91	.38	12.59
625	9.91	.08	4.10	.50	13.20
650	11.01	.03	3.58	.19	11.49
675	12.03	.04	3.63	.28	11.67
700	13.14	.04	3.38	.28	10.87
725	14.25	.03	3.46	.22	11.13
750	15.36	.05	3.26	.31	10.45
775	16.39	.04	3.17	.25	10.17
800	17.39	.14	3.14	1.33	10.07
825	18.38	.14	3.22	1.30	10.33

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

11	5	72	25 TO	13	5	73	475 TO	20	5	74	800 TO
13	F	73	450M	20	5	74	775M	14	5	75	825M
20	5	74		14	5	75		13	5	76	
14	F	75		13	5	76					
13	5	76									

EARTH PHYSICS BRANCH FILE NO. 158 BROCK I-20

LATITUDE 77 DEGREES 59.7 MINUTES NORTH LONGITUDE 114 DEGREES 33.9 MINUTES WEST
ELEVATION 16 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
25	-17.27	.50	20.31	.00	43.52
50	-15.82	.03	7.95	.23	15.81
75	-14.88	.16	8.93	.47	17.75
100	-13.30	.15	7.98	.43	15.87
125	-11.71	.09	7.32	.25	14.53
150	-10.30	.09	7.10	.25	14.10
175	-8.49	.06	6.44	.18	12.78
200	-7.28	.08	6.14	.24	12.18
225	-6.52	.07	5.76	.20	11.43
250	-5.84	.07	5.59	.19	11.17
275	-5.13	.06	5.13	.16	10.17
300	-4.47	.01	4.71	.04	9.33
325	-3.86	.02	4.08	.07	8.05
350	-3.20	.02	3.66	.07	7.23
375	-2.45	.04	4.30	.13	8.51
400	-1.18	.03	4.28	.08	8.46
425	-0.20	.12	4.36	.34	8.62
450	1.10	.06	3.47	.10	6.84
475	2.53	.03	3.46	.09	6.82
500	3.86	.05	3.35	.14	6.59
525	5.31	.07	3.15	.20	6.20
550	7.06	.03	2.63	.10	5.15
575	8.76	.05	2.06	.16	4.42
600	10.43	.06	1.68	.18	3.26
625	11.96	.04	1.27	.10	2.43
650	13.63	.07	.85	.18	1.60
675	15.01	.07	.49	.17	.87

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

16 9 72
12 5 73
19 5 74
18 5 77

EARTH PHYSICS BRANCH HOLE NO. 165 KILAGMIOTAK F-48

LATITUDE 69 DEGREES 27.5 MINUTES NORTH

LONGITUDE 134 DEGREES 11.9 MINUTES WEST

ELEVATION 20 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA $T(T_0)$ (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO $T(T_0) + 0.1$ (YEARS)
25	1.42	1.57		4.85	
50	-7.90	.35	3.22	1.29	23.31
75	-7.48	.09	3.17	.34	22.91
100	-7.14	.02	3.20	.09	23.12
125	-6.99	.05	4.23	.18	30.72
150	-6.60	.04	4.44	.13	32.23
175	-6.44	.11	4.89	.39	35.54
200	-6.16	.10	5.09	.35	36.97
225	-5.96	.14	5.48	.52	39.88
250	-5.96	.25	6.84	.90	49.84
275	-6.04	.18	9.29	.65	67.82
300	-5.95	.54	11.79	2.00	86.18

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

4 2 74
15 8 74
24 7 75
1 5 76
18 3 77

EARTH PHYSICS BRANCH HOLE NO. 166 MOKKA A-02

LATITUDE 79 DEGREES 31.2 MINUTES NORTH LONGITUDE 87 DEGREES 1.2 MINUTES WEST
ELEVATION 253 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
30.5	-14.51	.49	5.00	1.99	23.07
45.7	-14.28	.21	4.99	.86	23.02
61.0	-14.57	.22	6.43	.89	29.73
76.2	-13.94	.54	5.40	2.21	24.92
91.4	-14.22		7.29		33.74
106.7	-13.43	.35	6.70	1.42	30.98
137.2	-12.39	.24	5.91	.98	27.30
152.4	-11.21		4.38		20.15
167.6	-11.02	.32	5.78	1.29	26.70
182.9	-10.33	.10	4.20	.42	19.33
198.1	-10.21	.09	6.17	.37	28.49
213.4	-9.46	.19	5.51	.77	25.45
228.6	-9.29	.24	5.91	.98	27.30
243.8	-8.76	.19	5.51	.77	25.45
259.1	-8.48	.19	6.15	.77	28.43
274.3	-7.02	.33	3.80	1.37	13.74
289.6	-7.43	.11	5.64	.46	26.05
320.0	-6.71	.09	6.17	.37	28.49
350.5	-5.25	.05	4.46	.19	20.52
381.0	-4.49	.04	5.77	.15	26.64
411.5	-3.38	.21	4.99	.86	23.02
442.0	-2.24	.33	3.82	1.34	17.54

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

23 5 74
13 5 75
8 5 76

EARTH PHYSICS BRANCH MCLE NO. 167 UNIFKAT I-22

LATITUDE 69 DEGREES 11.7 MINUTES NORTH

LONGITUDE 135 DEGREES 20.5 MINUTES WEST

ELEVATION 5 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EGUILIBRIUM TEMPEFATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
25	-2.02	.30	1.03	.28	4.80
50	-1.23	.13	1.95	.12	9.33
75	-.48	.09	2.98	.08	14.38
100	.77	.11	3.17	.10	15.29
125	1.94	.13	3.23	.12	15.59
150	2.95	.16	3.15	.14	15.18
175	3.99	.15	3.07	.14	14.79
200	5.18	.15	2.93	.13	14.11
225	6.20	.14	2.75	.13	13.22
250	7.00	.15	2.64	.13	12.72
275	7.77	.15	2.60	.13	12.51
300	8.42	.11	2.41	.10	11.59
325	9.00	.10	2.38	.09	11.43
350	9.57	.11	2.38	.11	11.42
375	10.22	.13	2.39	.13	11.49
400	10.91	.12	2.32	.12	11.14
425	11.47	.11	2.20	.11	10.57
450	11.91	.11	2.19	.11	10.49
475	12.45	.11	2.23	.11	10.70
500	13.20	.09	2.09	.08	10.03
525	13.76	.09	2.01	.08	9.60
550	14.30	.13	2.10	.09	10.05
575	15.03	.19	1.96	.14	9.36
600	15.60	.12	2.01	.08	9.64
625	16.23	.14	1.94	.10	9.29
650	17.26		1.59		7.57
675	17.75		1.60		7.58
700	18.27		1.60		7.61

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

1 4 73
25 4 73
20 6 73
4 2 74
16 8 74
22 7 75
27 4 76

EARTH PHYSICS BRANCH HOLE NO. 168 DUNDAS C-80

LATITUDE 74 DEGREES 39.0 MINUTES NORTH LONGITUDE 113 DEGREES 23.0 MINUTES WEST
ELEVATION 240 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T (F0) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO $T(EQ) + 0.1$ (YEARS)
25	-14.54	.12	2.52	.34	6.56
50	-14.63	.01	3.19	.03	8.35
75	-14.10	.01	3.28	.03	8.59
100	-13.50	.02	3.37	.05	8.82
125	-12.47	.04	3.37	.11	8.81
150	-11.63	.02	3.36	.05	8.80
175	-11.04	.02	3.23	.06	8.44
200	-10.52	.02	3.38	.06	8.86
225	-9.96	.03	3.75	.07	9.83
250	-9.35	.04	4.17	.10	10.95
275	-8.56	.05	4.17	.13	10.96
300	-7.98	.04	4.30	.12	11.30
325	-7.23	.05	4.50	.14	11.81
350	-6.34	.05	4.36	.15	11.44
375	-5.86	.03	4.37	.09	11.49
400	-5.37	.03	4.02	.10	10.54
425	-4.89	.06	4.37	.17	11.49
450	-4.08	.07	3.96	.18	10.40
475	-3.52	.05	3.74	.13	9.80
500	-2.76	.04	3.25	.11	8.59
525	-1.99	.04	3.20	.10	8.38
550	-1.17	.08	3.98	.21	10.46
575	-.10	.08	3.95	.21	10.37
600	.93	.10	3.75	.26	9.83
625	2.05	.12	3.34	.32	8.74
650	3.04	.09	3.08	.25	8.05

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

28 4 73
25 5 74
7 5 75
19 5 76

EARTH PHYSICS BRANCH HOLE NO. 169 LOUISE BAY 0-25

LATITUDE 78 DEGREES 44.9 MINUTES NORTH

LONGITUDE 102 DEGREES 42.0 MINUTES WEST

ELEVATION 69 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(FQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
50	-12.13	.09	6.56	.29	11.60
75	-10.57	.08	6.01	.29	10.62
100	-9.01	.06	5.74	.21	10.14
125	-7.37	.02	5.49	.08	9.68
150	-5.93	.01	5.25	.04	9.26
175	-4.56	.06	5.37	.19	9.47
200	-3.18	.08	5.48	.26	9.68
225	-1.87	.17	5.88	.58	10.38
250	-.49	.29	6.13	.98	10.83
275	1.51	.13	4.80	.43	8.45
300	3.01	.06	4.62	.22	8.15
325	4.60	.07	4.28	.25	7.54
350	6.09	.04	4.16	.14	7.31
375	7.62	.05	3.92	.16	6.89
400	9.15	.07	3.47	.22	6.08
425	10.42	.03	3.58	.09	6.29
450	11.86	.05	3.50	.16	6.15
475	13.37	.06	3.32	.22	5.82
500	15.02	.10	2.99	.35	5.23
525	16.78	.13	2.66	.43	4.65
550	18.65	.11	2.59	.38	4.52
575	20.46	.17	2.39	.59	4.17
600	22.28	.16	1.93	.54	3.35
625	24.30	.19	1.56	.66	2.69
650	26.31	.21	1.48	.71	2.55

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

11 5 73
21 5 74
14 5 76

EARTH PHYSICS BRANCH HOLE NO. 170 THOR P-38

LATITUDE 78 DEGREES 7.8 MINUTES NORTH LONGITUDE 103 DEGREES 15.2 MINUTES WEST
ELEVATION 5 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO $T(EQ) + 0.1$ (YEARS)
25	-16.35		3.30		2.49
50	-15.75	.09	9.29	.97	7.09
75	-14.87	.08	9.24	.86	7.05
100	-13.92	.05	8.28	.48	6.31
125	-12.96	.03	8.05	.36	6.14
150	-11.47	.05	6.82	.57	5.19
175	-10.16	.04	8.07	.38	6.15
200	-8.75	.04	7.70	.43	5.87
225	-7.25	.07	6.30	.73	4.79
250	-5.52	.02	4.53	.18	3.44
275	-3.66	.04	3.13	.39	2.36
300	-2.13	.07	3.27	.70	2.47
325	-.74	.13	5.33	1.38	4.05
350	.87	.04	5.96	.47	4.53
375	2.37	.03	5.21	.26	3.96
400	3.66	.02	5.61	.21	4.26
425	5.02	.04	5.54	.45	4.21
450	6.33	.04	5.81	.46	4.42
475	7.61	.05	5.86	.52	4.46
500	8.79	.05	6.37	.52	4.85

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

13 9 72
11 5 73
19 5 74
15 5 75
13 5 76

EARTH PHYSICS BRANCH HOLE NO. 172 DRAKE B-44

LATITUDE 76 DEGREES 23.1 MINUTES NORTH LONGITUDE 108 DEGREES 16.1 MINUTES WEST
ELEVATION 4 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T (FQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
25	-14.25	.00	4.10	.00	3.22
50	-12.41	.07	3.78	.79	2.97
75	-10.57	.03	4.78	.38	3.76
100	-8.52	.05	6.20	.60	4.88
125	-6.22	.07	6.30	.80	4.96
150	-3.73	.15	8.62	1.72	6.81
175	-1.38	.10	7.14	1.16	5.63
200	.87	.01	5.33	.06	4.20
225	2.46	.00	2.94	.06	2.30
250	3.73	.01	3.00	.09	2.35
275	4.94	.02	3.86	.22	3.03
300	6.18	.06	3.39	.66	2.66
325	7.24	.03	3.21	.38	2.51

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

7 5 73
16 5 74
17 5 76

EARTH PHYSICS BRANCH HCLE NO. 173 NIGLINTGAK H-30

LATITUDE 69 DEGREES 19.4 MINUTES NORTH LONGITUDE 135 DEGREES 20.1 MINUTES WEST
ELEVATION 2 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
25	-2.47	.14	1.98	.19	8.75
50	-1.76	.05	1.24	.07	5.38
75	-1.23	.08	1.01	.12	4.33
100	-1.00	.24	2.28	.37	10.09
125	-.69	.33	3.75	.51	16.74
150	.02	.19	3.45	.30	15.38
175	.61	.02	3.43	.03	15.29
200	1.07	.04	3.42	.05	15.22
225	1.40	.03	3.62	.05	16.15
250	1.80	.05	3.54	.08	15.76

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

19 6 73
4 2 74
22 7 75
28 4 76

EARTH PHYSICS BRANCH HOLE NO. 175 GEMINT E-10

LATITUDE 79 DEGREES 59.4 MINUTES NORTH LONGITUDE 84 DEGREES 4.2 MINUTES WEST
ELEVATION 126 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(E0) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(E0)+0.1 (YEARS)
50	-16.55	.16	8.14	.25	32.12
75	-15.83	.05	6.17	.08	24.33
100	-15.39	.09	7.20	.14	28.41
125	-14.75	.11	7.85	.17	30.99
150	-13.32	.05	7.07	.07	27.90
175	-11.99	.01	6.69	.02	26.37
200	-10.62	.02	6.85	.03	27.00
225	-9.42	.05	6.68	.08	26.33
250	-8.43	.05	5.87	.08	23.13
275	-7.32	.02	5.67	.04	22.31
300	-6.15	.02	4.79	.04	18.84
325	-5.28	.01	3.98	.02	15.20
350	-4.41	.06	3.33	.09	13.02
375	-3.48	.14	2.56	.23	9.98
400	-2.67	.20	2.15	.31	8.36
425	-1.85	.19	2.15	.31	8.33
450	-1.38	.06	3.14	.09	12.27
475	-1.03	.06	4.61	.09	18.10
500	-0.23	.12	5.30	.19	20.87
525	.93	.22	5.32	.34	20.92
550	2.66	.06	4.90	.10	19.28
575	4.18	.06	4.80	.09	18.88
600	5.56	.06	4.76	.10	18.72
625	6.96	.06	4.55	.09	17.88
650	8.32	.05	4.37	.07	17.18
675	9.52	.06	4.40	.09	17.29
700	10.67	.06	4.15	.09	16.30
725	11.66	.06	3.97	.09	15.59
750	12.69	.07	3.83	.10	15.02
775	13.74	.08	3.75	.12	14.71
800	14.82	.07	3.55	.10	13.90

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

30 4 73
22 5 74
12 5 75
8 5 76
18 5 77

EARTH PHYSICS BRANCH FILE NO. 176 YA YA P-53

LATITUDE 69 DEGREES 12.8 MINUTES NORTH LONGITUDE 134 DEGREES 42.7 MINUTES WEST
ELEVATION 36 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
25	-7.79	.14	3.44	.34	9.49
50	-7.13	.04	3.55	.12	9.76
75	-6.63	.02	3.72	.07	10.27
100	-6.17	.05	4.37	.15	12.07
125	-5.67	.08	5.32	.23	14.73
150	-5.07	.06	4.40	.18	12.16
175	-4.80	.10	5.06	.29	13.99
200	-4.38	.08	4.74	.23	13.12
225	-3.92	.05	4.31	.14	11.89
250	-3.42	.05	3.84	.13	10.60
275	-2.92	.03	3.28	.07	9.02
300	-2.51	.09	2.86	.24	7.85
325	-2.10	.10	2.32	.29	6.33
350	-1.65	.10	1.68	.38	4.55
375	-1.20	.10	.99	.28	2.62
400	-.84	.08	1.33	.22	3.58
425	-.32	.12	2.32	.35	6.34
450	.45	.09	2.27	.24	6.20
475	1.17	.07	2.07	.20	5.65
500	1.92	.04	1.92	.11	5.24
525	2.50	.03	1.99	.07	5.42
550	3.16		1.74		4.73

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

19 6 73
4 2 74
16 8 74
24 7 75
25 4 76
16 3 77

EARTH PHYSICS BRANCH HOLE NO. 179 REINDEER F-36

LATITUDE 69 DEGREES 5.3 MINUTES NORTH LONGITUDE 134 DEGREES 39.0 MINUTES WEST
ELEVATION 10 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
25	-7.61	.27	10.84	2.34	15.96
50	-6.99	.12	7.76	1.15	11.41
75	-6.51	.01	4.99	.07	7.31
100	-6.37	.04	6.27	.35	9.20
125	-6.08	.02	6.28	.21	9.21
150	-5.59	.03	6.46	.33	9.49
175	-4.89	.06	6.37	.54	9.36
200	-4.04	.07	6.15	.63	9.02
225	-3.25	.07	5.69	.66	8.34
250	-2.57	.03	4.38	.31	6.41
275	-2.12	.05	5.26	.46	7.71
300	-1.51	.07	4.45	.66	6.51
325	-.87	.06	2.54	.54	3.68

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

3 2 74
14 8 74
24 7 75
20 4 76
16 3 77

EARTH PHYSICS BRANCH HOLE NO. 192 KUGPIK D-13

LATITUDE 68 DEGREES 52.8 MINUTES NORTH LONGITUDE 135 DEGREES 18.2 MINUTES WEST
ELEVATION 2 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE- FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
25	-1.44	.40	.31	.42	1.35
50	-.87	.12	1.86	.12	9.32
75	-.37	.09	3.57	.09	18.12
100	.69	.03	3.94	.04	20.04
125	1.79	.11	3.77	.12	19.17
150	2.44	.16	4.01	.17	20.38
175	3.13	.22	4.13	.23	21.00
200	4.06	.24	4.05	.26	20.61
225	5.22	.23	3.66	.25	18.59
250	6.31	.19	3.11	.20	15.77
275	6.96	.15	2.79	.16	14.13
300	7.44	.19	2.79	.21	14.11
325	8.12	.19	2.73	.21	13.81
350	8.82	.20	2.62	.21	13.24
375	9.42	.19	2.54	.20	12.85
400	10.00	.18	2.48	.19	12.51
425	10.69	.17	2.33	.18	11.72
450	11.20	.18	2.30	.19	11.60
475	11.88	.21	2.40	.22	12.11
500	12.92	.25	2.08	.24	10.45
525	13.68	.18	1.86	.17	9.32
550	14.02		1.95		9.77
575	14.59		1.89		9.47
600	15.19		1.92		9.62
625	15.58		2.91		14.72

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

4 11 73
5 2 74
16 8 74
22 7 75
27 4 76

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EARTH PHYSICS BRANCH HOLE NO. 193 IKHIL I-37

LATITUDE 68 DEGREES 46.6 MINUTES NORTH LONGITUDE 134 DEGREES 7.8 MINUTES WEST
ELEVATION 125 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
25	-2.92	3.48	1.48	2.21	9.31
50	-5.18	.95	2.28	.60	14.49
75	-6.65	.74	2.99	.52	19.09
100	-5.40	.47	2.53	.33	16.07
125	-4.73	.44	2.25	.31	14.32
150	-3.75	.43	1.85	.30	11.69
175	-2.80	.53	1.58	.38	9.92
200	-2.20	.41	1.44	.29	9.01
225	-1.75	.31	1.35	.22	8.46
250	-1.45	.27	1.38	.19	8.62
275	-1.26	.26	1.58	.19	9.91
300	-.90	.33	1.24	.24	7.72
325	-.67	.34	1.12	.24	6.94
350	.13	.26	2.01	.18	12.72
375	.74	.10	2.69	.07	17.13
400	1.71	.21	2.65	.15	16.90
425	2.85	.22	2.78	.15	17.72
450	3.63	.16	2.65	.11	16.87
475	4.38	.13	2.65	.09	16.91
500	5.13	.13	2.69	.08	17.16
525	5.88	.11	2.66	.07	16.95

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

19 12 73
3 2 74
15 8 74
23 7 75
18 3 77

EARTH PHYSICS BRANCH HOLE NO. 195 LINCKENS ISLAND P-46

LATITUDE 77 DEGREES 45.8 MINUTES NORTH LONGITUDE 97 DEGREES 45.4 MINUTES WEST
ELEVATION 0.3 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
30.5	-15.77		13.66		24.98
45.7	-12.85		5.63		10.24
61.0	-11.57		3.89		7.05
76.2	-10.64		3.31		5.99
91.4	-10.09		3.86		5.53
106.7	-9.21		3.48		6.29
121.9	-8.42		4.14		7.58
137.2	-7.02		4.39		7.96
152.4	-5.81		4.39		7.96
167.6	-4.40		6.29		11.45
182.9	-3.59		5.79		10.54
198.1	-2.31		3.64		6.59
213.4	-1.64		3.97		7.20
228.6	-1.03		3.64		6.59
243.8	-.36		4.63		8.42
259.1	.32		4.55		8.26
274.3	.84		5.46		9.94
289.6	1.14		5.38		9.78
304.8	1.77		5.55		10.09
335.3	2.69		5.55		10.09
365.8	3.51		4.06		7.35
396.2	4.11		3.39		6.14
426.7	4.66		3.64		6.59
457.2	5.19		3.64		6.59
487.7	5.74		3.48		6.29
518.2	6.49		3.06		5.53

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

21 5 74
17 5 77

EARTH PHYSICS BRANCH HOLE NO. 196 BENT HORN N-72

LATITUDE 76 DEGREES 21.8 MINUTES NORTH LONGITUDE 103 DEGREES 58.2 MINUTES WEST
ELEVATION 63 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
50	-15.77	.02	2.04	.02	7.26
75	-15.32	.01	2.11	.02	7.50
100	-14.74	.02	2.09	.02	7.45
125	-14.12	.02	2.07	.02	7.36
150	-13.51	.06	2.12	.08	7.53
175	-12.65	.05	2.05	.06	7.30
200	-11.98	.04	2.02	.05	7.18
225	-11.24	.06	2.02	.08	7.19
250	-10.34	.07	2.13	.09	7.57
275	-9.45	.06	1.98	.07	7.03
300	-8.69	.05	1.93	.06	6.86
325	-8.03	.07	1.92	.09	6.83
350	-7.40	.06	1.89	.08	6.72
375	-6.80	.05	1.91	.07	6.78
400	-6.30	.07	2.06	.09	7.34
425	-5.78	.04	2.15	.06	7.65
450	-5.32	.03	2.39	.03	8.55
475	-4.72	.06	2.16	.07	7.70
500	-4.08	.05	1.74	.07	6.16
525	-3.59	.05	1.73	.07	6.12
550	-3.11	.07	1.47	.09	5.19
575	-2.67	.08	1.26	.11	4.40
600	-2.23	.10	1.06	.13	3.68
625	-1.80	.10	.79	.13	2.71
650	-1.38	.08	.50	.11	1.65
675	-1.07	.09	.87	.11	3.00
700	-.62	.12	1.36	.16	4.77
725	-.10	.09	1.34	.12	4.69
750	.63	.08	1.33	.10	4.68
775	1.37	.07	1.26	.09	4.42
800	2.01	.06	1.21	.08	4.24
825	2.61	.16	1.23	.21	4.28

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

17 5 74
6 5 75
15 5 76
17 5 77

EARTH PHYSICS BRANCH HOLE NO. 197 NEIL 0-15

LATITUDE 80 DEGREES 44.6 MINUTES NORTH LONGITUDE 83 DEGREES 4.8 MINUTES WEST
ELEVATION 497 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
50	-8.98	.01	3.72	.02	5.12
75	-9.06	.02	3.72	.02	5.12
100	-8.99	.02	3.35	.02	4.61
125	-8.86	.02	3.47	.03	4.77
150	-8.55	.02	3.60	.03	4.96
175	-8.21	.03	3.69	.04	5.08
200	-7.83	.02	3.43	.03	4.72
225	-7.46	.03	3.73	.04	5.14
250	-7.02	.03	4.08	.04	5.63
275	-6.43	.03	4.30	.04	5.94
300	-5.88	.02	3.94	.03	5.43
325	-5.35	.02	3.49	.02	4.91
350	-4.85	.02	3.24	.03	4.46
375	-4.30	.03	3.49	.04	4.80
400	-3.55	.04	3.28	.06	4.52
425	-2.72	.04	2.80	.06	3.84
450	-2.17	.06	2.66	.09	3.64
475	-1.59	.08	1.69	.11	2.30
500	-1.15	.04	3.04	.05	4.17
525	-0.49	.03	2.29	.04	3.12
550	-0.85	.01	2.87	.02	3.95
575	.40	.02	2.91	.02	4.00
600	.95	.00	3.05	.01	4.19
625	1.68	.02	3.19	.02	4.39
650	2.43	.01	3.11	.01	4.28
675	3.20	.01	3.03	.02	4.16
700	3.90	.01	3.11	.01	4.28
725	4.64	.01	3.06	.01	4.21

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

23 5 74
11 5 75
8 5 76
18 5 77

EARTH PHYSICS BRANCH HOLE NO. 199 DRAKE E-78

LATITUDE 76 DEGREES 27.3 MINUTES NORTH LONGITUDE 108 DEGREES 29.4 MINUTES WEST
ELEVATION 2 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
25	-13.19	.04	6.87	.31	2.99
50	-11.13	.05	5.74	.47	2.49
75	-9.10	.13	6.51	1.31	2.83
100	-6.84	.19	6.68	1.96	2.91
125	-4.48	.28	5.89	2.81	2.56
150	-1.97	.22	4.15	2.24	1.80
175	.35	.17	3.24	1.69	1.40
200	2.45	.16	2.89	1.62	1.24
225	3.96	.10	2.26	.99	.97
250	5.15	.09	2.36	.89	1.51

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

5 8 74
6 5 75
17 5 76
17 5 77

EARTH PHYSICS BRANCH HOLE NO. 200 HECLA I-69

LATITUDE 76 DEGREES 18.7 MINUTES NORTH

LONGITUDE 110 DEGREES 23.3 MINUTES WEST

ELEVATION 2 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
25	-14.46		4.48		8.01
50	-10.81	.10	3.26	1.17	5.81
75	-7.73	.10	5.98	1.12	10.72
100	-4.91	.08	6.41	.86	11.50
125	-2.18	.14	6.49	1.55	11.65
150	.62	.08	3.55	.87	6.33
175	2.51	.06	2.42	.73	4.28
200	4.02	.06	1.56	.71	2.73
225	5.35	.05	1.75	.53	3.07
250	6.71	.06	1.84	.64	3.23
275	8.06	.06	.95	.71	1.63
300	9.13	.06	.55	.63	.90
325	10.14	.05	.55	.59	.90
350	10.99	.04	1.00	.50	1.72
375	11.68	.03	.74	.37	1.26
400	12.28	.04	.69	.42	1.17
425	12.88	.04	.43	.44	.69
450	13.32	.04	6.74	.65	12.10
475	14.60	.05	.25	.79	.37
500	15.86	.03	1.35	.52	2.35
525	15.84		-2.62		-4.83
550	16.67		-5.13		-9.37
575	17.05		-2.93		-5.38
600	17.45		-3.35		-6.15
625	17.81		-2.74		-5.04
650	18.29		-3.54		-6.48

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS....

5 8 74	25 TO	6 5 75	450 TO	17 5 76	525 TO
6 5 75	425M	17 5 76	500M	17 5 77	650M
17 5 76		17 5 77			
17 5 77					

EARTH PHYSICS BRANCH HOLE NO. 253 TEDJI LAKE K-24

LATITUDE 67 DEGREES 43.6 MINUTES NORTH LONGITUDE 126 DEGREES 49.9 MINUTES WEST
ELEVATION 343 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
75	-2.21		3.45		4.28
100	-2.05		3.10		3.85
125	-1.91		2.38		2.94
150	-1.77		3.06		3.79
175	-1.59		1.91		2.34
200	-1.47		1.72		2.10
225	-1.36		1.79		2.19
250	-1.27		2.55		3.15
275	-1.14		2.62		3.24
300	-.94		1.16		1.40
325	-.87		1.41		1.71
350	-.72		1.05		1.26
375	-.56		.63		.74
400	-.48		1.01		1.22
425	-.34		1.52		1.85
450	-.13		1.63		1.99
475	.05		1.46		1.77

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

17 8 74
30 4 76

EARTH PHYSICS BRANCH HOLE NO. 254 YA YA A-28

LATITUDE 69 DEGREES 17.2 MINUTES NORTH LONGITUDE 134 DEGREES 35.5 MINUTES WEST
ELEVATION 40 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO $T(EQ) + 0.1$ (YEARS)
75	-8.93	.66	11.57	4.02	30.94
100	-7.42	.06	5.70	.35	15.18
125	-7.07	.19	7.84	1.15	20.92
150	-7.32	.27	16.36	1.67	43.79
175	-6.62	.11	14.88	.68	39.82
200	-5.90	.06	10.11	.39	27.02
225	-5.68	.15	9.71	.93	25.93
250	-5.50	.19	11.11	1.14	29.69
275	-5.18	.20	10.91	1.25	29.15
300	-4.83	.07	13.85	.40	37.06
325	-4.30	.07	9.37	.43	25.03
350	-3.76	.10	6.18	.64	16.45

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

25 7 75
29 4 76
18 3 77

EARTH PHYSICS BRANCH HOLE NO. 256 SUTHERLAND 0-23

LATITUDE 77 DEGREES 42.9 MINUTES NORTH LONGITUDE 102 DEGREES 8.5 MINUTES WEST
ELEVATION 21 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
50	-15.31		4.09		44.76
75	-14.35		3.87		42.29
100	-13.45		4.05		44.22
125	-12.58		5.00		54.74
150	-10.98		5.45		59.82
175	-8.81		4.67		51.17
200	-6.70		4.03		44.07
225	-5.18		4.01		43.79
250	-4.35		4.71		51.61
275	-3.76		5.70		62.53
300	-3.00		6.19		67.94
325	-2.44		4.28		46.79
350	1.44		3.51		38.28
375	3.33		2.42		26.21
400	4.09		2.34		25.36
425	4.56		2.28		24.66
450	4.99		2.18		23.54

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

14 5 75
14 5 76

EARTH PHYSICS BRANCH HOLE NO. 257 PEDDER POINT D-49

LATITUDE 75 DEGREES 38.2 MINUTES NORTH LONGITUDE 118 DEGREES 48.3 MINUTES WEST
ELEVATION 101 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ) + 0.1 (YEARS)
50	-14.19	.06	3.49	.60	2.83
75	-13.01	.05	3.14	.56	2.54
100	-11.67	.01	3.24	.06	2.62
125	-10.60	.02	3.76	.18	3.05
150	-9.49	.01	4.34	.13	3.52
175	-7.91	.07	3.60	.78	2.92
200	-6.45	.13	2.94	1.40	2.38
225	-5.13	.13	4.13	1.42	3.36
250	-3.85	.16	3.16	1.73	2.56
275	-3.25	.17	5.15	1.80	4.19
300	-2.01	.17	2.87	1.78	2.32
325	-.64	.03	1.31	.29	1.04
350	.24	.10	2.58	1.02	2.08
375	1.26	.05	2.64	.54	2.13
400	2.24	.01	2.64	.14	2.13
425	3.20	.03	2.83	.30	2.29
450	4.37	.04	2.51	.48	2.03
475	5.44	.05	5.37	.59	4.37
500	7.01	.01	3.03	.12	2.45
525	8.32	.05	2.10	.54	1.69
550	9.56	.01	2.27	.13	1.83

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

8 5 75
23 5 76
18 5 77

EARTH PHYSICS BRANCH HOLE NO. 258 PAT BAY A-72

LATITUDE 77 DEGREES 21.0 MINUTES NORTH

LONGITUDE 105 DEGREES 27.0 MINUTES WEST

ELEVATION 17 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
25	-16.16	.00	5.23	.00	8.94
50	-16.09	.05	6.50	.05	11.14
75	-15.70	.06	7.37	.05	12.64
100	-15.32	.08	7.16	.08	12.27
125	-14.79	.08	6.90	.07	11.82
150	-14.14	.01	6.18	.01	10.58

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

15 5 75
14 5 76
17 5 77

EARTH PHYSICS BRANCH HOLE NO. 259 CRAKE D-73

LATITUDE 76 DEGREES 22.1 MINUTES NORTH LONGITUDE 108 DEGREES 29.5 MINUTES WEST
ELEVATION 33 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO $T(EQ) + 0.1$ (YEARS)
50	-14.83	6.32			2.92
75	-13.73	4.90			2.26
100	-12.36	4.24			1.95
125	-10.93	4.08			1.88
150	-9.61	3.85			1.77
175	-8.20	3.50			1.60
200	-6.55	3.09			1.41
225	-4.92	2.95			1.35
250	-3.24	2.91			1.33
275	-1.04	2.56			1.17
300	.69	2.11			.96
325	1.98	1.99			.90
350	3.20	1.95			.89
375	4.64	1.70			.77

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

16 5 75
23 5 76

EARTH PHYSICS BRANCH HOLE NO. 260 RED FOX P-21

LATITUDE 69 DEGREES 10.8 MINUTES NORTH LONGITUDE 133 DEGREES 35.0 MINUTES WEST
ELEVATION 23 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
25	-4.40	.10	5.32	.23	10.98
50	-5.20	.30	6.63	.71	13.70
75	-5.15	.08	6.87	.19	14.21
100	-4.41	.09	5.96	.21	12.31
125	-3.79	.19	4.80	.44	9.89
150	-3.24	.11	3.60	.25	7.40
175	-2.60	.18	2.56	.42	5.23
200	-2.42	.22	2.26	.52	4.60
225	-2.51	.17	2.27	.40	4.62
250	-2.54	.07	2.22	.18	4.52
275	-2.22	.12	2.07	.27	4.20
300	-1.99	.09	1.91	.22	3.88
325	-1.87	.07	1.88	.16	3.81
350	-1.83	.05	1.88	.12	3.82
375	-1.69	.05	1.72	.11	3.49
400	-1.33	.07	1.30	.17	2.61

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

25 7 75
21 4 76
19 3 77

EARTH PHYSICS BRANCH HOLE NO. 261 KIMIK D-29

LATITUDE 69 DEGREES 38.1 MINUTES NORTH LONGITUDE 132 DEGREES 22.2 MINUTES WEST
ELEVATION 10 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
50	-8.90	.20	27.36	6.10	36.66
75	-7.91	.03	6.06	.92	8.07
100	-7.72	.05	6.90	1.68	9.20
125	-7.68		13.59		18.18
150	-7.34		12.84		17.17
175	-7.15		16.72		22.39
200	-6.79		16.12		21.58
225	-6.47		16.50		22.08
250	-6.25		19.60		26.24
275	-5.88		18.90		25.31
300	-5.48		17.02		22.76
325	-5.37		23.77		31.84
350	-4.92		22.92		30.71
375	-4.41		20.07		26.88
400	-4.17		23.17		31.04
425	-3.85		23.61		31.63
450	-3.55		24.77		33.18
475	-3.14		22.13		29.65

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

27 7 75
22 4 76
21 3 77

EARTH PHYSICS BRANCH MCLE NO. 262 ATERTAK E-41

LATITUDE 69 DEGREES 30.5 MINUTES NORTH LONGITUDE 132 DEGREES 42.1 MINUTES WEST
ELEVATION 12 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQULIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
50	-9.34	.58	54.97	18.30	66.20
75	-7.22	.05	5.79	1.66	6.92
100	-6.77	.09	4.91	2.72	5.85
125	-6.24	.19	4.44	6.09	5.29
150	-5.82	.16	3.89	4.95	4.62
175	-5.52	.12	5.69	3.91	6.80
200	-5.19	.15	6.33	4.60	7.57
225	-4.76	.16	5.26	5.05	6.28
250	-4.28	.17	3.95	5.44	4.70
275	-3.88	.29	5.37	9.04	6.41
300	-3.37	.20	3.21	6.35	3.81
325	-3.05	.21	3.33	6.68	3.96
350	-2.72	.23	5.45	7.37	6.51
375	-2.27	.23	4.72	7.20	5.63
400	-1.81	.20	.34	6.22	.36
425	-1.58	.14	2.19	4.56	2.58
450	-1.32	.19	1.88	6.01	2.21
475	-1.14	.31	5.56	9.73	6.64

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

27 7 75
22 4 76
23 3 77

EARTH PHYSICS BRANCH HCLE NO. 264 PIKIOLIK E-54

LATITUDE 69 DEGREES 23.2 MINUTES NORTH LONGITUDE 132 DEGREES 44.6 MINUTES WEST
ELEVATION 18 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ) + 0.1 (YEARS)
50	-9.80		60.05		90.42
75	-7.58		14.87		22.34
100	-7.59		22.03		33.11
125	-8.79		58.81		88.54
150	-6.26		12.97		19.46
175	-5.52		11.34		17.02
200	-4.79		9.75		14.61
225	-4.06		7.67		11.48
250	-3.42		7.05		10.55
275	-2.77		5.43		8.11
300	-2.36		7.96		11.93
325	-1.94		7.97		11.94
350	-1.80		12.93		19.40
375	-1.47		13.72		20.60
400	-.62		2.52		3.72
425	-.03		-4.74		-7.23
450	.67		-4.72		-7.19
475	1.40		-4.64		-7.07

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

28 7 75
23 3 77

EARTH PHYSICS BRANCH HOLE NO. 266 IVIK J-26

LATITUDE 69 DEGREES 35.7 MINUTES NORTH LONGITUDE 134 DEGREES 20.6 MINUTES WEST
ELEVATION 23 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
50	-9.54	.46	16.33	4.83	57.53
75	-8.07	.04	3.16	.38	11.00
100	-7.96	.04	4.24	.38	14.79
125	-7.70	.08	5.04	.86	17.62
150	-7.29	.14	6.03	1.45	21.14
175	-6.76	.13	5.06	1.41	17.69
200	-6.12	.22	3.91	2.31	13.63
225	-7.08	.64	22.05	6.81	77.76
250	-5.39	.02	5.16	.17	18.06
275	-5.21	.14	5.01	1.46	17.52

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

25 7 75
1 5 76
18 3 77

EARTH PHYSICS BRANCH HOLE NO. 267 TAGLU C-42

LATITUDE 69 DEGREES 21.0 MINUTES NORTH

LONGITUDE 134 DEGREES 56.6 MINUTES WEST

ELEVATION 2 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
25	-1.97		20.57		
50	-3.85	.43	30.38	4.32	
75	-1.03	.16	3.38	1.73	11.68
100	-.60	.19	1.66	2.01	5.63
125	-.48	.02	1.68	.19	5.73
150	-.65	.06	2.11	.65	7.21
175	-.66	.04	2.36	.47	8.09
200	-.75	.10	2.73	1.03	9.41
225	-.68	.19	1.24	2.07	4.16
250	-.97	.17	2.68	1.82	9.23
275	-.86	.08	2.66	.87	9.16
300	-.73	.10	1.74	1.06	5.92
325	-.90	.04	3.01	.44	10.37
350	-1.36	.27	6.09	2.84	21.19
375	-1.35	.06	5.98	.60	28.79
400	-1.22	.03	5.39	.31	18.74
425	-1.19	.06	4.01	.62	13.90
450	-1.28	.10	4.07	1.04	14.08
475	-1.14	.05	2.70	.56	9.31
500	-1.03	.04	1.61	.39	5.46
525	-.73		-.92		-3.41
550	-.48		-1.11		-4.07

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

26	7	75
23	4	76
7	7	76
10	3	77

EARTH PHYSICS BRANCH HCLE NO. 268 TAGLU D-43

LATITUDE 69 DEGREES 22.3 MINUTES NORTH

LONGITUDE 134 DEGREES 56.8 MINUTES WEST

ELEVATION 1 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
25	-8.39	.66	25.35	7.30	61.01
50	-5.99	.17	17.98	1.97	42.99
75	-4.98	.32	18.82	3.85	45.24
100	-4.82	.15	22.09	1.81	53.13
125	-4.32	.17	19.77	1.98	47.54
150	-4.25	.23	24.05	2.73	57.87
175	-3.75	.23	24.24	2.74	58.32
200	-2.65	.19	16.70	2.28	40.15
225	-1.95	.11	11.53	1.23	27.68
250	-1.72	.09	9.60	1.03	23.03
275	-1.45	.07	6.14	.84	14.70
300	-1.49	.09	6.01	1.08	14.36
325	-1.80	.10	9.73	1.19	23.35
350	-2.02	.22	11.37	2.66	27.29
375	-1.98	.20	10.54	2.35	25.29
400	-1.83	.02	9.36	.25	21.72
425	-1.50	.07	6.41	.89	15.34
450	-1.43	.08	6.21	.92	14.85
475	-1.31	.13	5.77	1.61	13.78
500	-1.06	.01	3.77	.12	8.96
525	-0.73	.00	.25	.03	.49

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

26 7 75
29 4 76
7 7 76
10 3 77

EARTH PHYSICS BRANCH HOLE NO. 269 TAGLI 3-55

LATITUDE 69 DEGREES 24.2 MINUTES NORTH LONGITUDE 134 DEGREES 59.6 MINUTES WEST
ELEVATION 1 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
50	-12.77		114.58		
75	-2.82	.35	4.93	4.56	13.78
100	-1.68	.13	2.70	1.77	7.47
125	-1.58	.06	1.10	.75	17.07
150	-1.47	.10	6.74	1.33	18.87
175	-1.48	.10	8.69	1.35	24.39
200	-1.50	.21	7.04	2.85	19.72
225	-1.44	.09	4.59	1.28	12.81
250	-1.46	.01	4.21	.20	11.75
275	-1.77	.12	3.40	1.62	9.44
300	-1.43	.14	6.91	1.93	19.36
325	-1.54	.17	9.16	2.23	25.71
350	-1.06	.04	1.59	.49	4.33

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

26 7 75
23 4 76
7 7 76
10 3 77

EARTH PHYSICS BRANCH HOLE NO. 271 NORTH ELICE J-23

LATITUDE 69 DEGREES 12.6 MINUTES NORTH LONGITUDE 135 DEGREES 51.2 MINUTES WEST
ELEVATION 1 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ) +0.1 (YEARS)
25	-1.82		.91		3.39
50	-1.19	.15	1.44	.16	5.47
75	.18	.06	2.57	.06	9.95
100	1.70	.05	2.62	.05	10.16
125	3.31	.01	2.59	.01	10.04
150	4.63	.10	2.47	.11	9.55
175	5.92	.07	2.45	.08	9.47
200	7.08	.04	2.36	.04	9.10
225	8.01	.02	2.23	.02	8.61
250	8.72	.03	2.11	.03	8.15
275	9.44	.02	1.96	.02	7.53
300	9.99	.02	1.88	.02	7.21
325	10.55	.03	1.81	.03	6.93
350	11.10	.03	1.77	.03	6.80
375	11.59	.02	1.77	.02	6.78
400	12.06	.02	1.74	.02	6.66
425	12.63		1.59		6.08

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

28 4 76
18 10 76
7 3 77

EARTH PHYSICS BRANCH HCLE NO. 272 PARSONS L-47

LATITUDE 68 DEGREES 52.6 MINUTES NORTH

LONGITUDE 133 DEGREES 41.9 MINUTES WEST

ELEVATION 49 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(E0) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(E0)+0.1 (YEARS)
50	-4.93	1.14	10.70	3.67	15.47
75	-3.24	.66	7.14	2.14	10.29
100	-1.84	.55	4.05	1.79	5.80
125	-2.00	.68	4.41	2.20	6.33
150	-1.20	.28	2.52	.90	3.59
175	-.82	.09	1.66	.28	2.33
200	-.66	.03	1.34	.11	1.87
225	-.58	.02	1.21	.07	1.68
250	-.49	.02	1.34	.06	1.88
275	-.23	.09	2.05	.28	2.90
300	.50	.08	5.81	.27	8.37
325	1.06	.06	7.10	.20	10.24
350	1.72	.06	7.24	.18	10.44
375	2.44	.06	7.22	.18	10.42
400	3.21	.03	7.30	.10	10.52
425	4.01	.07	7.26	.22	10.46
450	5.15	.09	6.11	.30	8.80
475	5.83	.08	6.07	.25	8.74

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

26 4 76
10 7 76
20 10 76
12 3 77

EARTH PHYSICS BRANCH HOLE NO. 273 KAMIK D-48

LATITUDE 68 DEGREES 57.2 MINUTES NORTH LONGITUDE 133 DEGREES 27.5 MINUTES WEST
ELEVATION 31 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO $T(EQ) + 0.1$ (YEARS)
50	-4.28		4.55		12.58
75	-6.70	.42	7.68	.82	21.33
100	-6.70	.27	7.44	.54	20.66
125	-6.45	.25	7.81	.49	21.67
150	-6.00	.10	7.11	.21	19.74
175	-4.74	.22	5.55	.43	15.37
200	-3.86	.05	4.51	.10	12.46
225	-2.80	.02	3.23	.04	8.89
250	-1.69	.23	1.85	.45	5.02
275	-1.24	.08	1.10	.15	2.93

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

10 7 76
20 10 76
12 3 77

EARTH PHYSICS BRANCH HOLE NO. 274 SIKU C-11

LATITUDE 69 DEGREES 0.0 MINUTES NORTH LONGITUDE 133 DEGREES 33.8 MINUTES WEST
ELEVATION 58 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
25	-1.11	.18	2.01	.36	3.28
50	-1.00	.01	2.29	.01	3.74
75	-2.78	.53	4.49	1.23	7.42
100	-4.45	.97	6.78	2.23	11.26
125	-4.33	.87	6.59	2.00	10.93
150	-4.55	.57	7.05	1.31	11.75
175	-3.48	.59	5.24	1.35	8.68
200	-2.50	.48	3.43	1.10	5.64
225	-1.69	.31	2.08	.72	3.39
250	-1.02	.20	1.19	.46	1.91
275	-.60	.05	.62	.11	.96
300	-.51	.00	.56	.01	.86
325	-.44	.02	.51	.05	.77
350	-.37	.06	.46	.13	.69
375	-.02	.09	2.29	.21	3.74
400	.70	.07	4.42	.17	7.30
425	1.48	.08	4.84	.18	8.01
450	2.44	.08	4.63	.18	7.66
475	3.15	.08	4.65	.17	7.68

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

26 4 76
10 7 76
21 10 76
14 3 77

EARTH PHYSICS BRANCH HOLE NO. 275 PARSONS N-17

LATITUDE 68 DEGREES 56.9 MINUTES NORTH

LONGITUDE 133 DEGREES 74.0 MINUTES WEST

ELEVATION 52 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(F0)	SOURCE FUNCTION (C)	DELTA S.F.	TIME TO T(F0)+0.1 (YEARS)
50	-2.15	.14	2.34	.09	7.27
75	-1.74	.14	2.16	.09	6.70
100	-1.39	.21	2.40	.14	7.47
125	-1.82	.08	3.19	.05	9.97
150	-1.22	.08	1.37	.05	4.21
175	-1.11	.09	1.23	.05	7.75
200	-1.05	.10	1.23	.06	7.74
225	-1.09	.14	1.34	.09	4.11
250	-1.17	.18	1.49	.11	4.58
275	-1.02	.14	1.22	.09	7.72
300	-1.18	.18	1.42	.11	4.35
325	-0.97	.15	1.56	.09	4.79
350	.17	.11	1.58	.07	4.85
375	1.26	.19	2.39	.12	7.43
400	2.27	.20	2.44	.13	7.59
425	2.91	.17	2.38	.11	7.40
450	3.61	.20	2.41	.13	7.51
475	4.28	.18	2.41	.12	7.51
500	4.94	.16	2.39	.13	7.44
525	6.11	2.1F			6.67
550	6.89		1.90		6.17
575	7.42		1.96		6.38
600	8.24		1.88		5.82

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

21 4 76
10 7 76
20 10 76
12 3 77

EARTH PHYSICS BRANCH HOLE NO. 276 ULU A-35

LATITUDE 68 DEGREES 44.0 MINUTES NORTH LONGITUDE 135 DEGREES 52.9 MINUTES WEST
ELEVATION 3 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO $T(EQ) + 0.1$ (YEARS)
50	-4.08		4.88		25.02
75	-1.11		4.38		22.40
100	.79		4.24		21.70
125	2.21		4.19		21.43
150	3.39		3.91		19.99

TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

18 10 76
19 3 77

EARTH PHYSICS BRANCH HOLE NO. 277 SIKU A-12

LATITUDE 69 DEGREES 1.0 MINUTES NORTH LONGITUDE 133 DEGREES 32.5 MINUTES WEST
ELEVATION 56 METERS

LOGARITHMIC RETURN TO EQUILIBRIUM

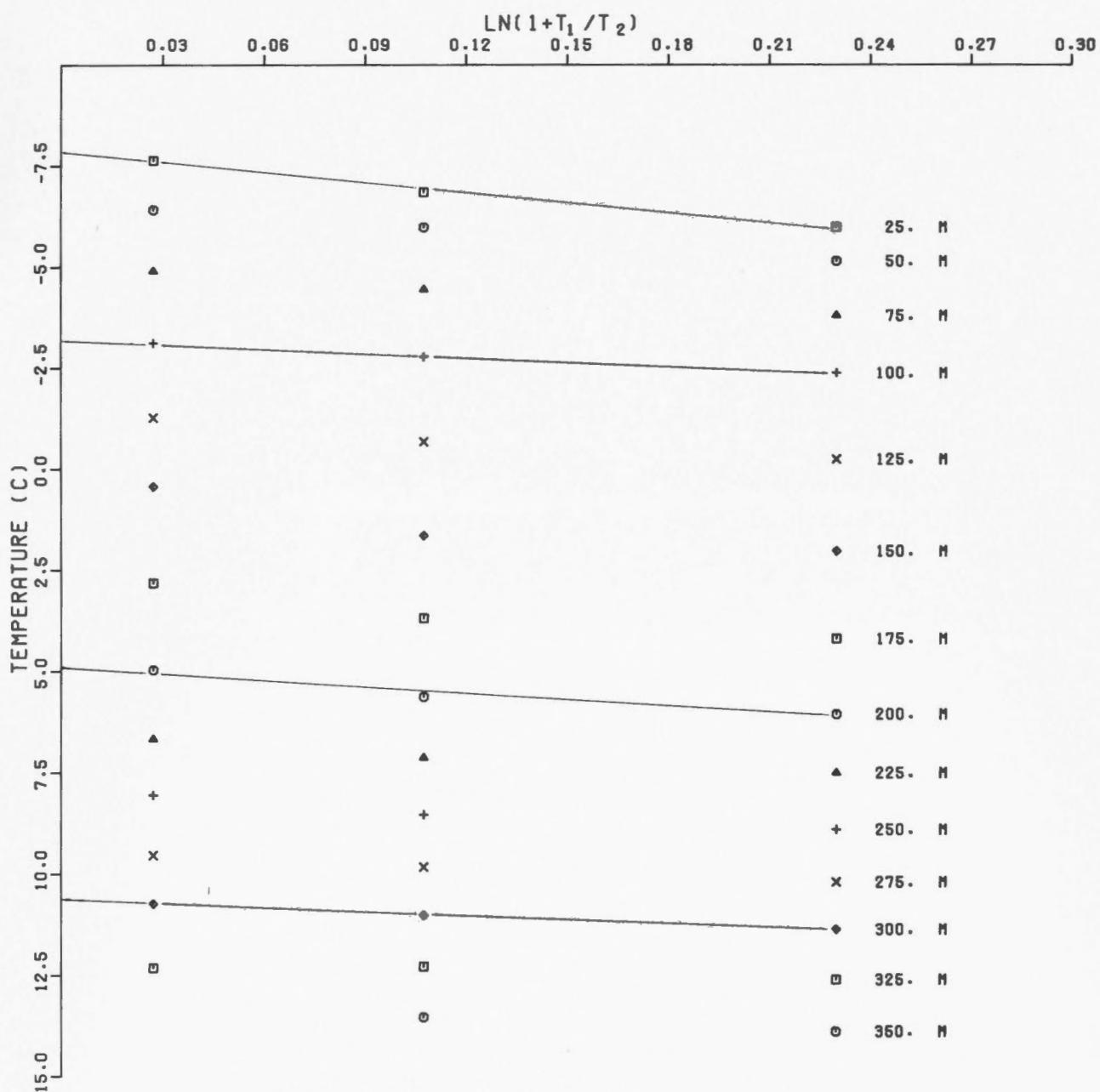
DEPTH (M)	EQUILIBRIUM TEMPERATURE (C)	DELTA T(EQ) (C)	SOURCE FUNCTION (C)	DELTA S.F. (C)	TIME TO T(EQ)+0.1 (YEARS)
75	-3.04		8.42		10.09
100	-1.39		3.32		3.94
125	-.88		1.52		1.77
150	-3.23		8.58		10.28
175	-3.56		9.40		11.28
200	-2.30		5.34		6.38
225	-1.05		1.62		1.89
250	-.63		.75		.85
275	-.51		.64		.71
300	-.56		.71		.79
325	-.44		.42		.45
350	-.44		1.71		2.00
375	.66		5.86		7.00
400	1.40		5.99		7.16
425	2.05		5.49		6.56

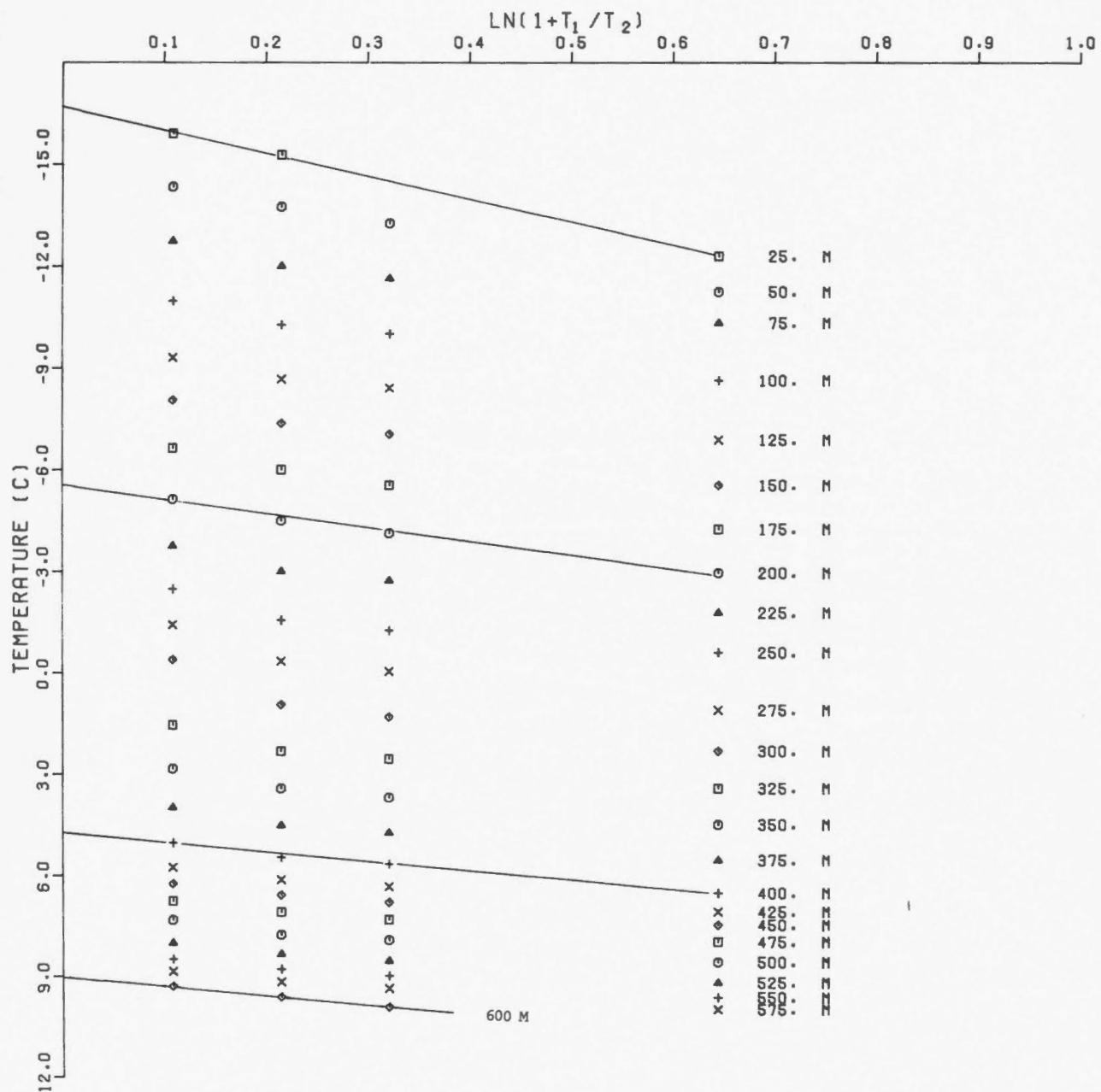
TEMPERATURE LOGS USED IN RETURN TO EQUILIBRIUM CALCULATIONS...

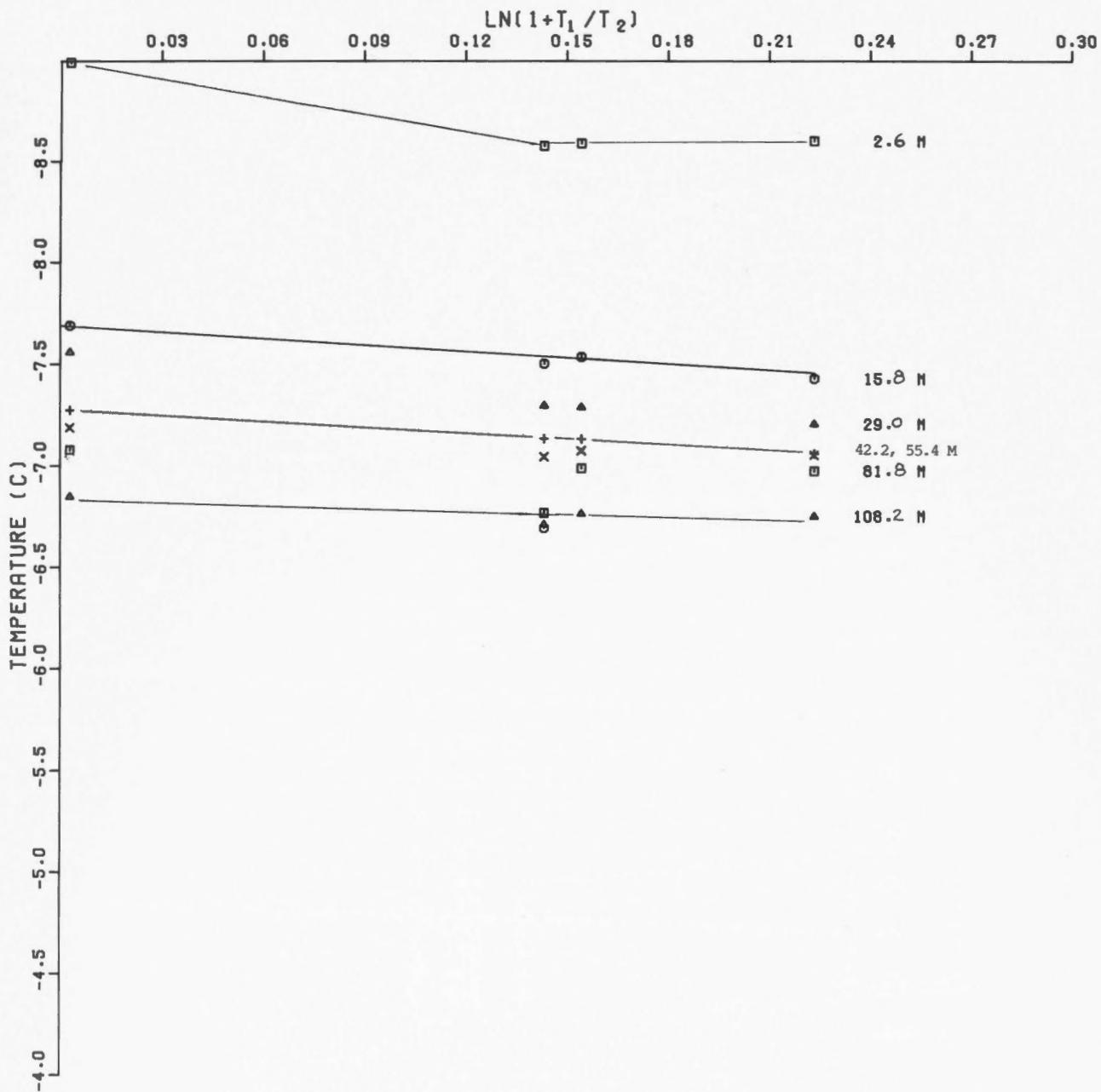
21 10 76
14 3 77

3.4 Graphs of the Return to Thermal Equilibrium

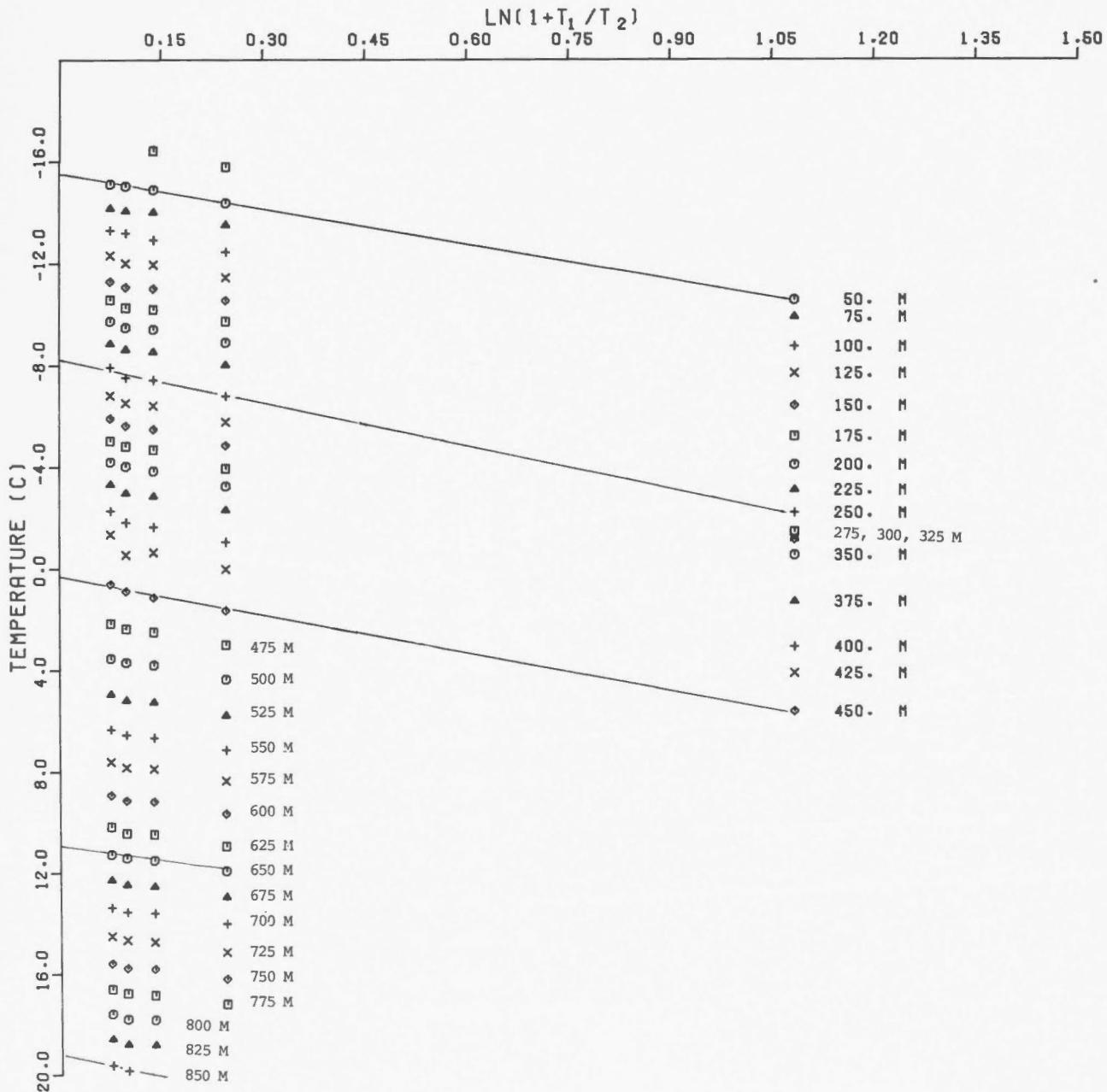
77 HORTON RIVER

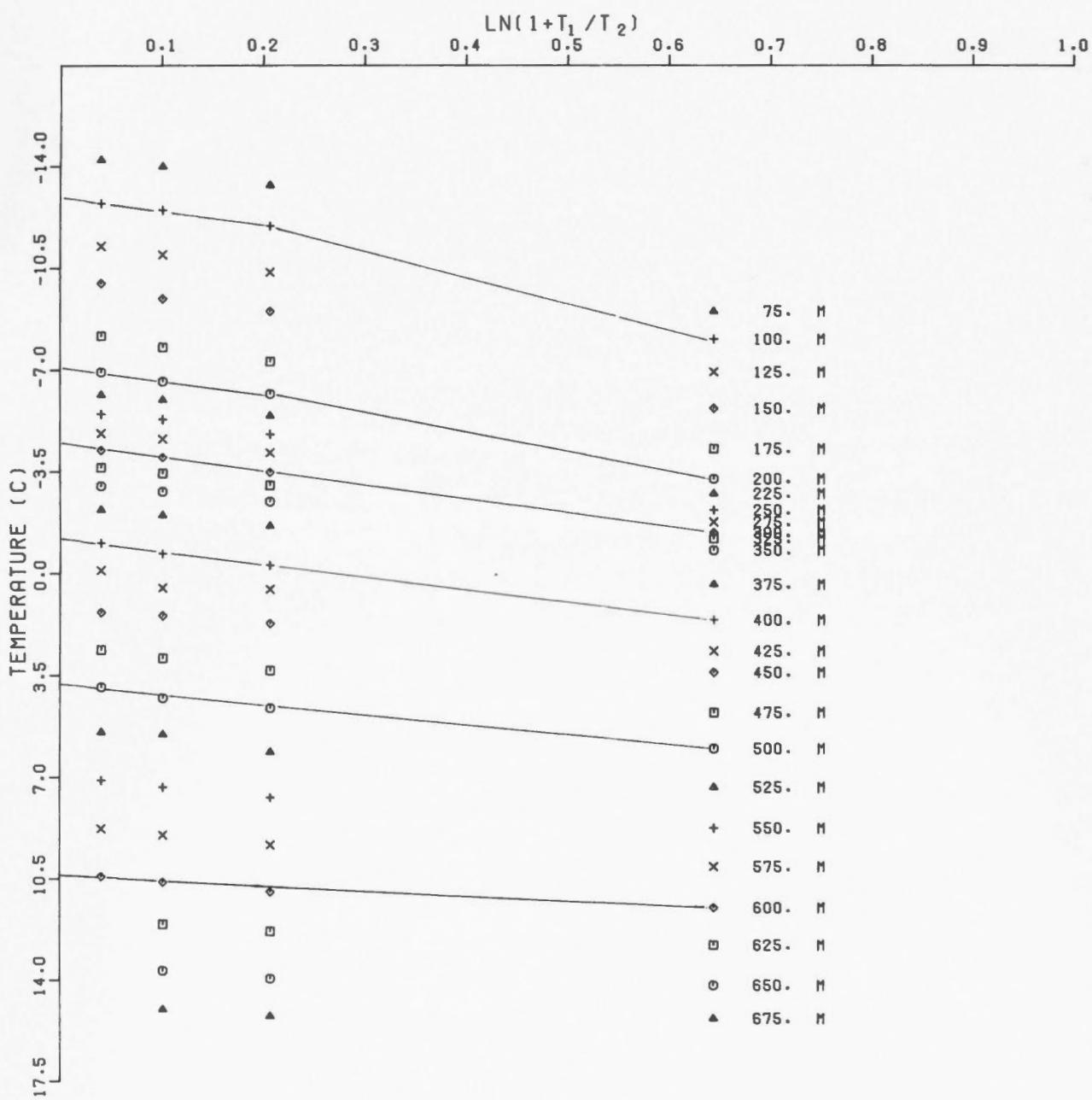


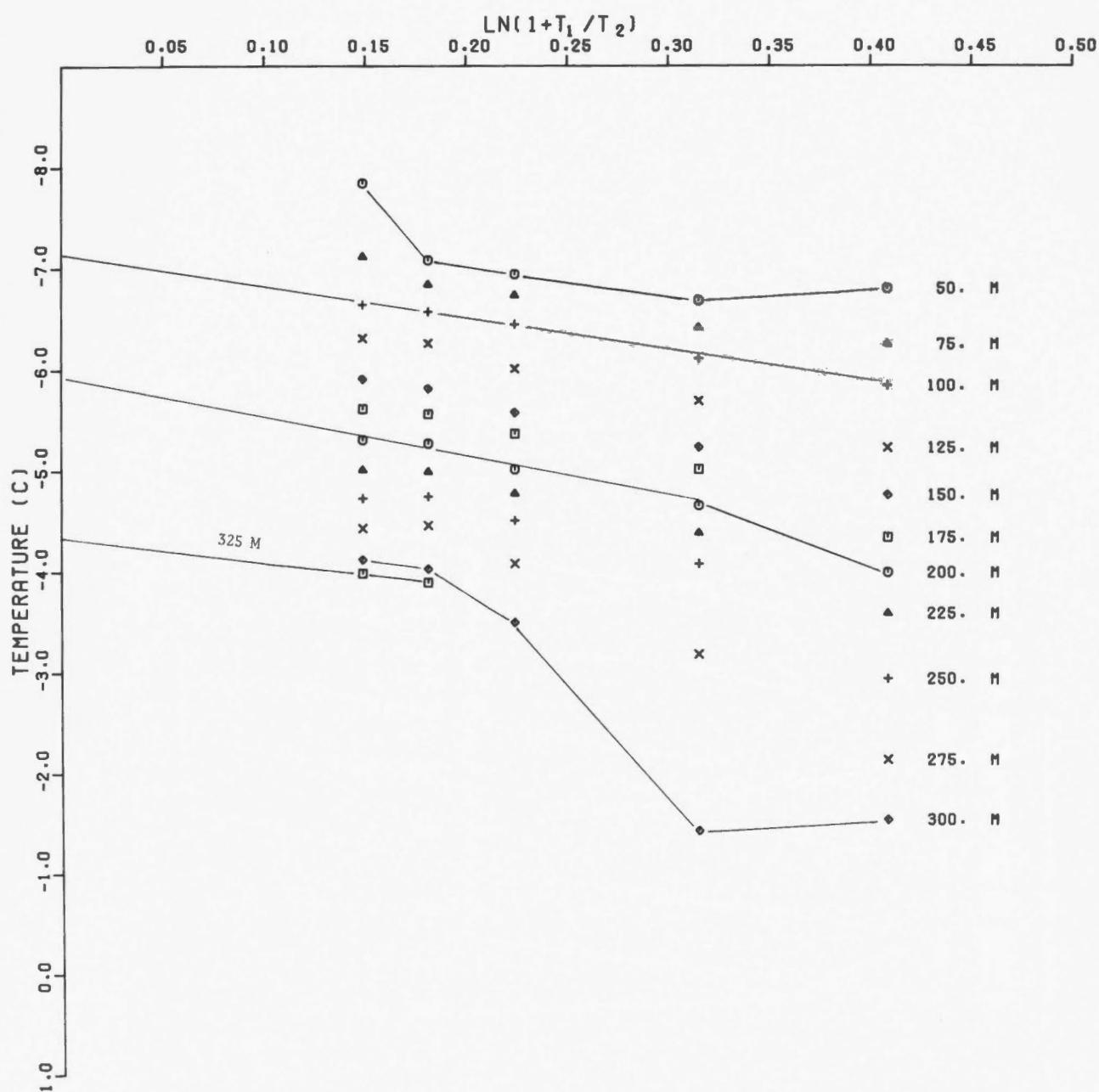


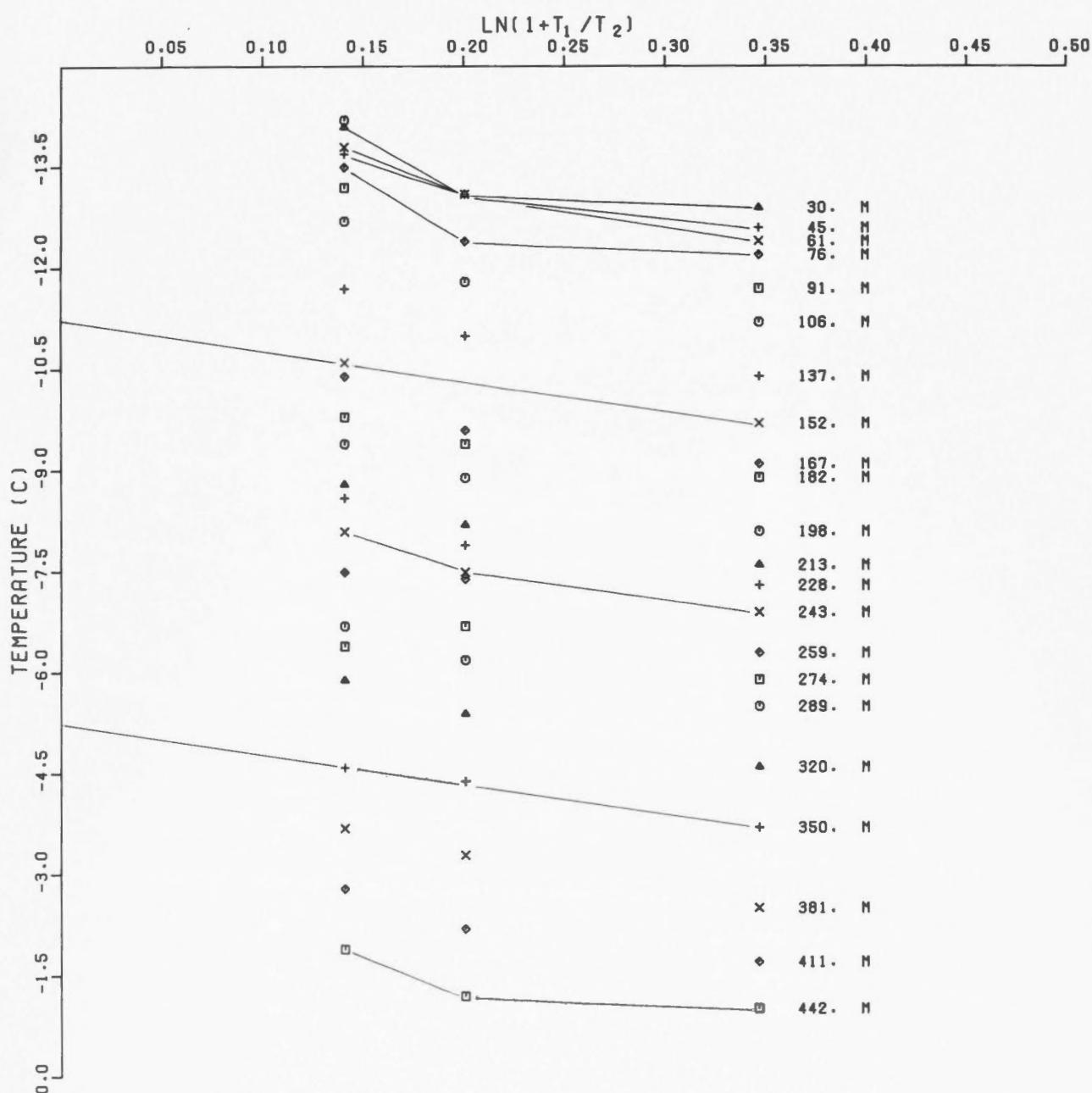


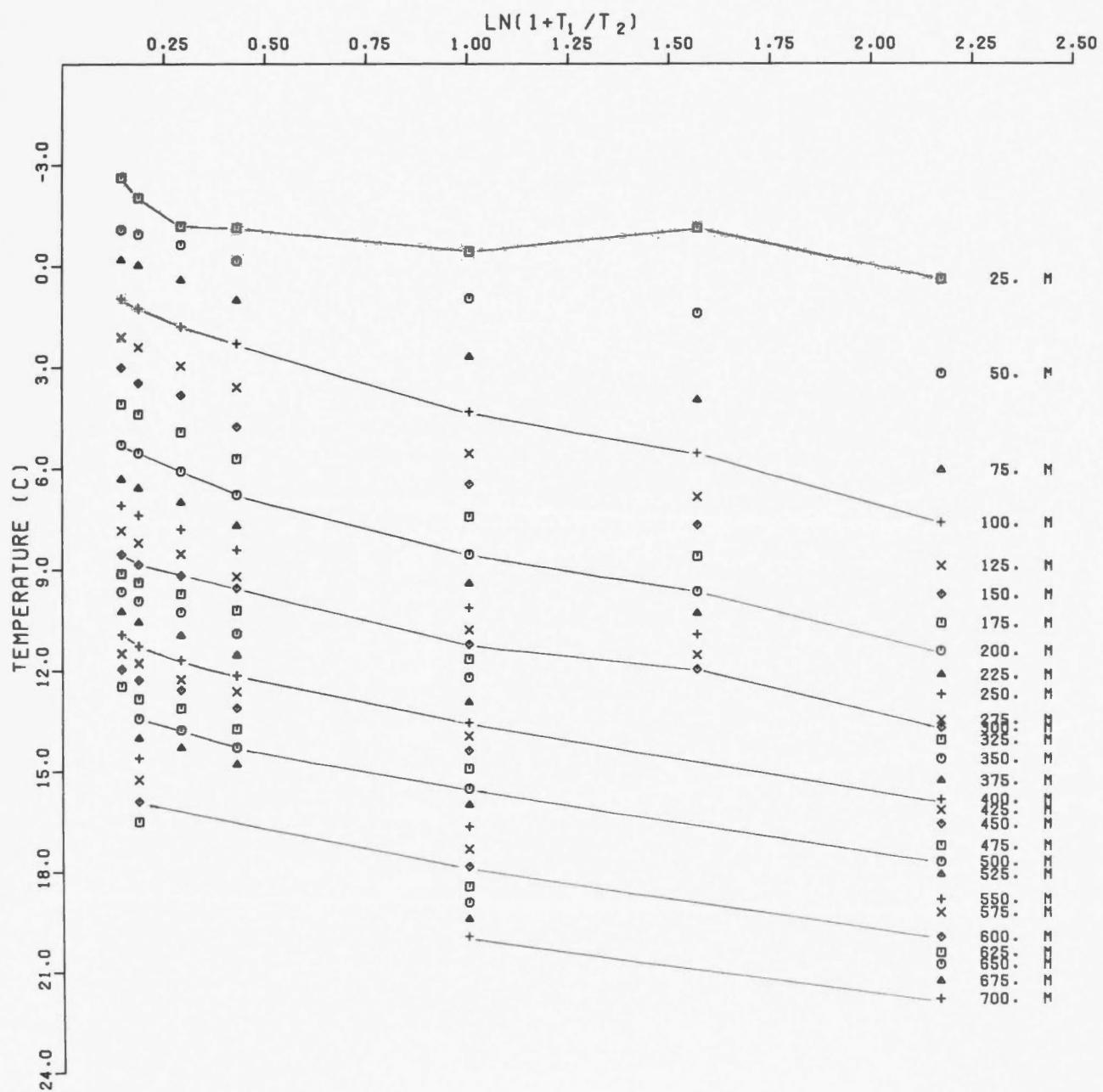
155 KRISTOFFER BAY B-06

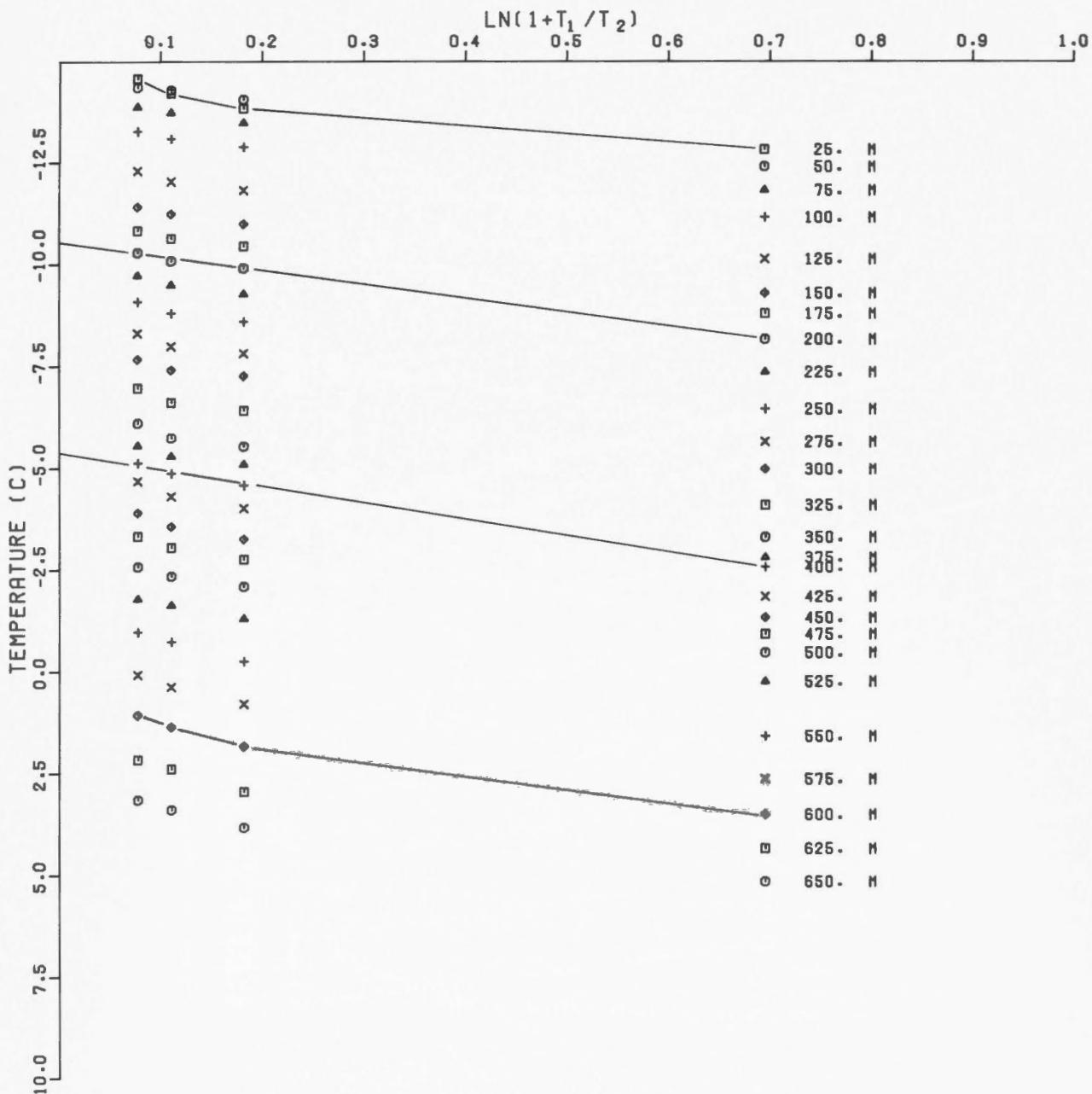




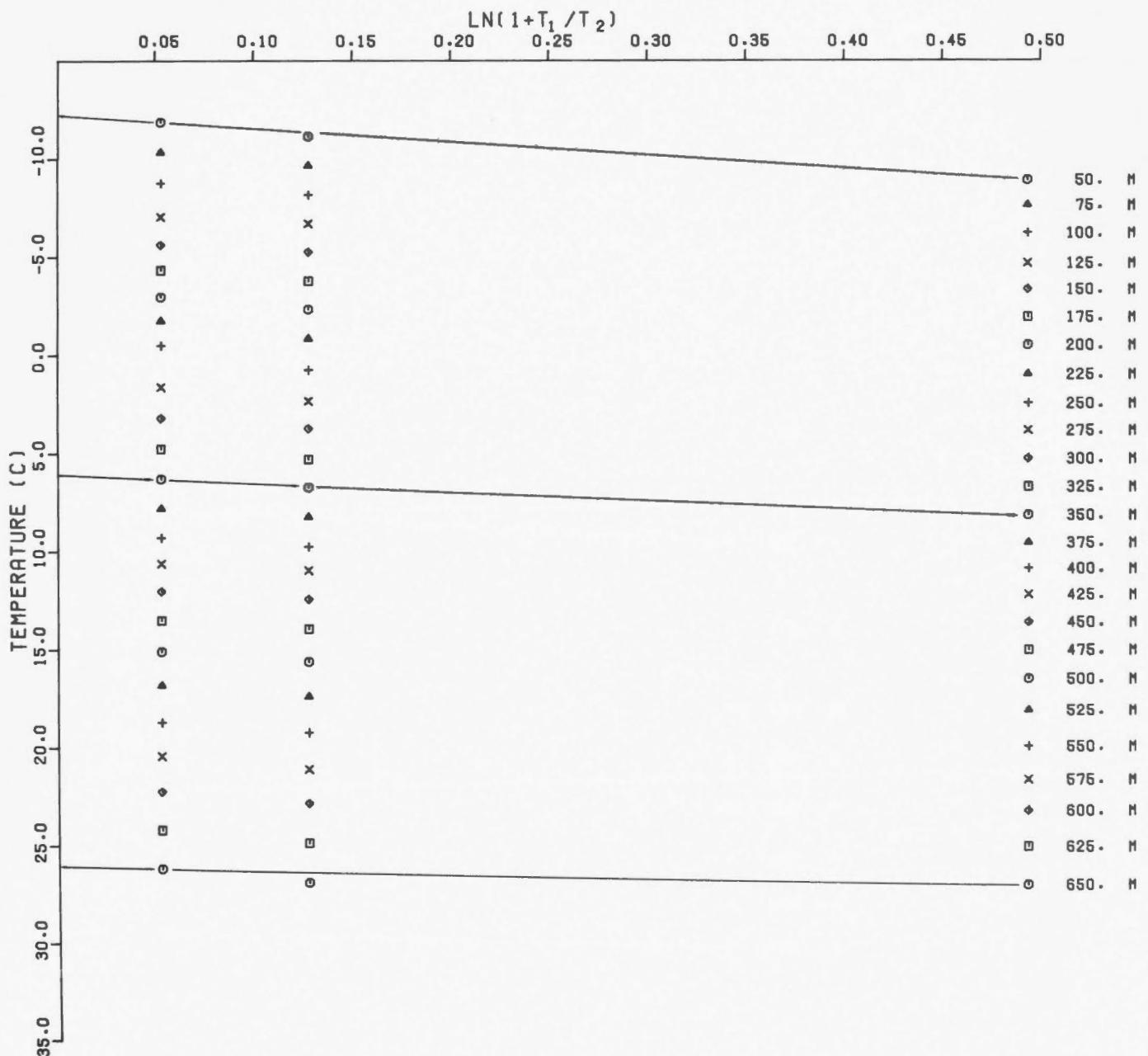


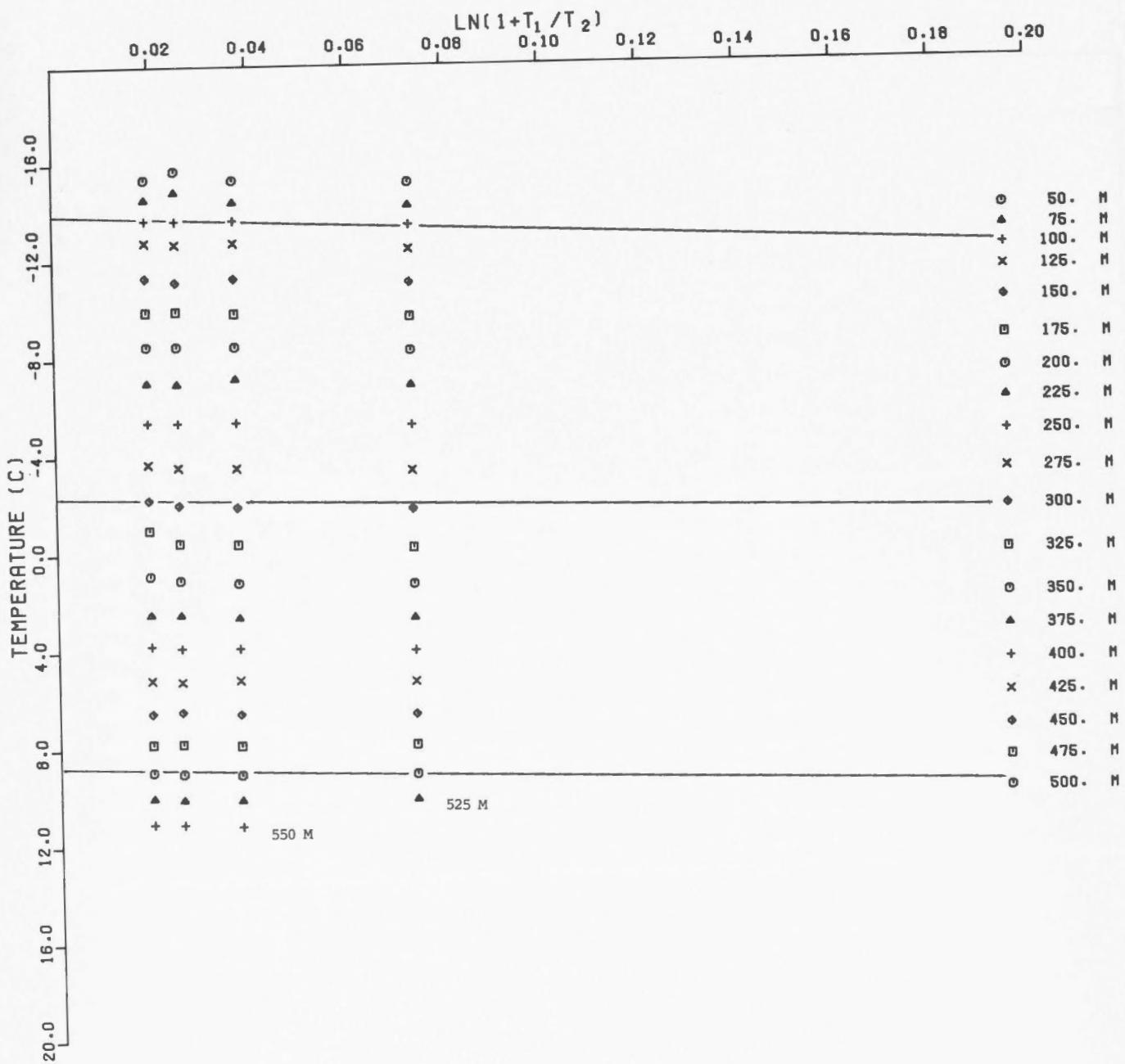


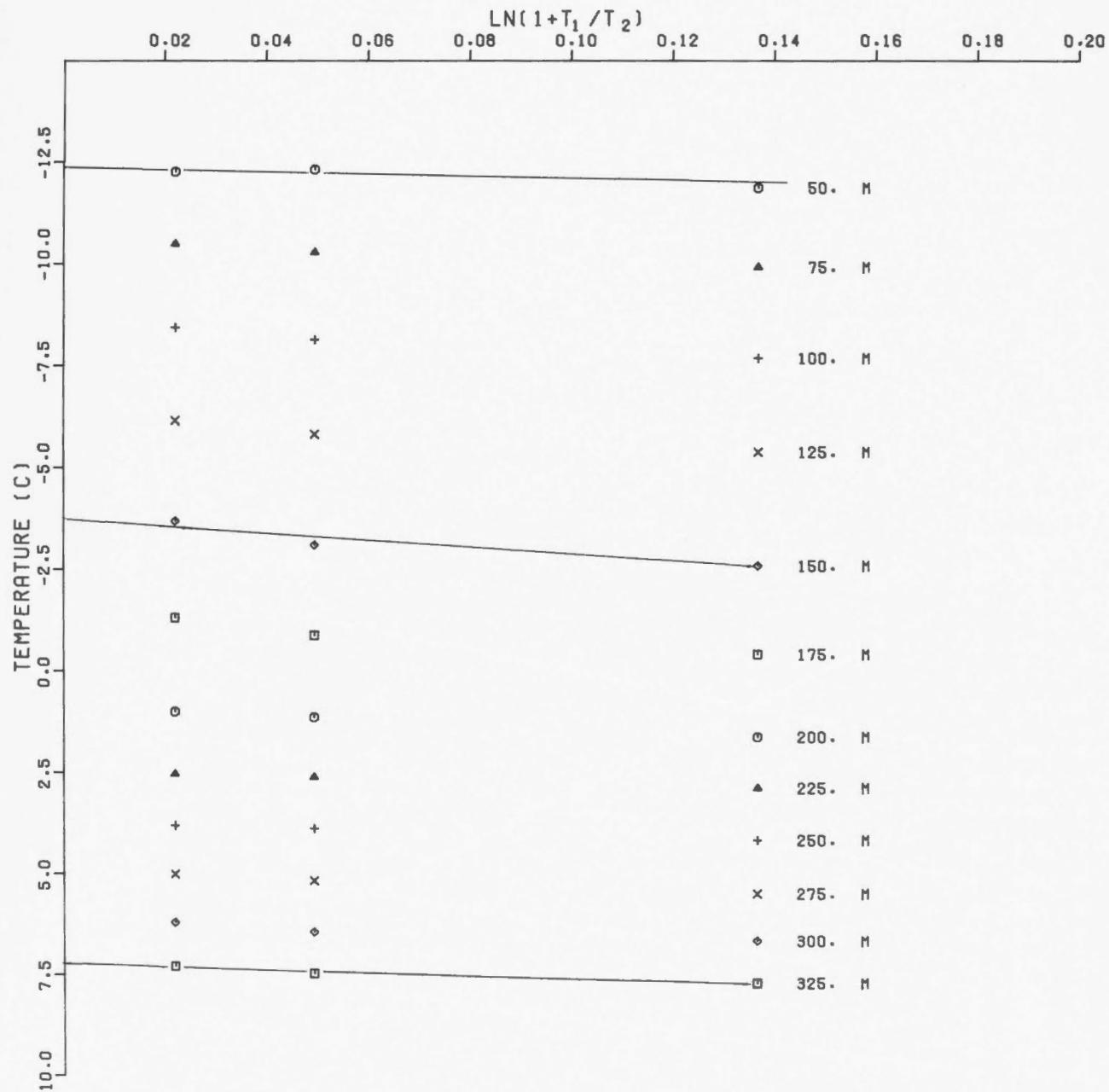


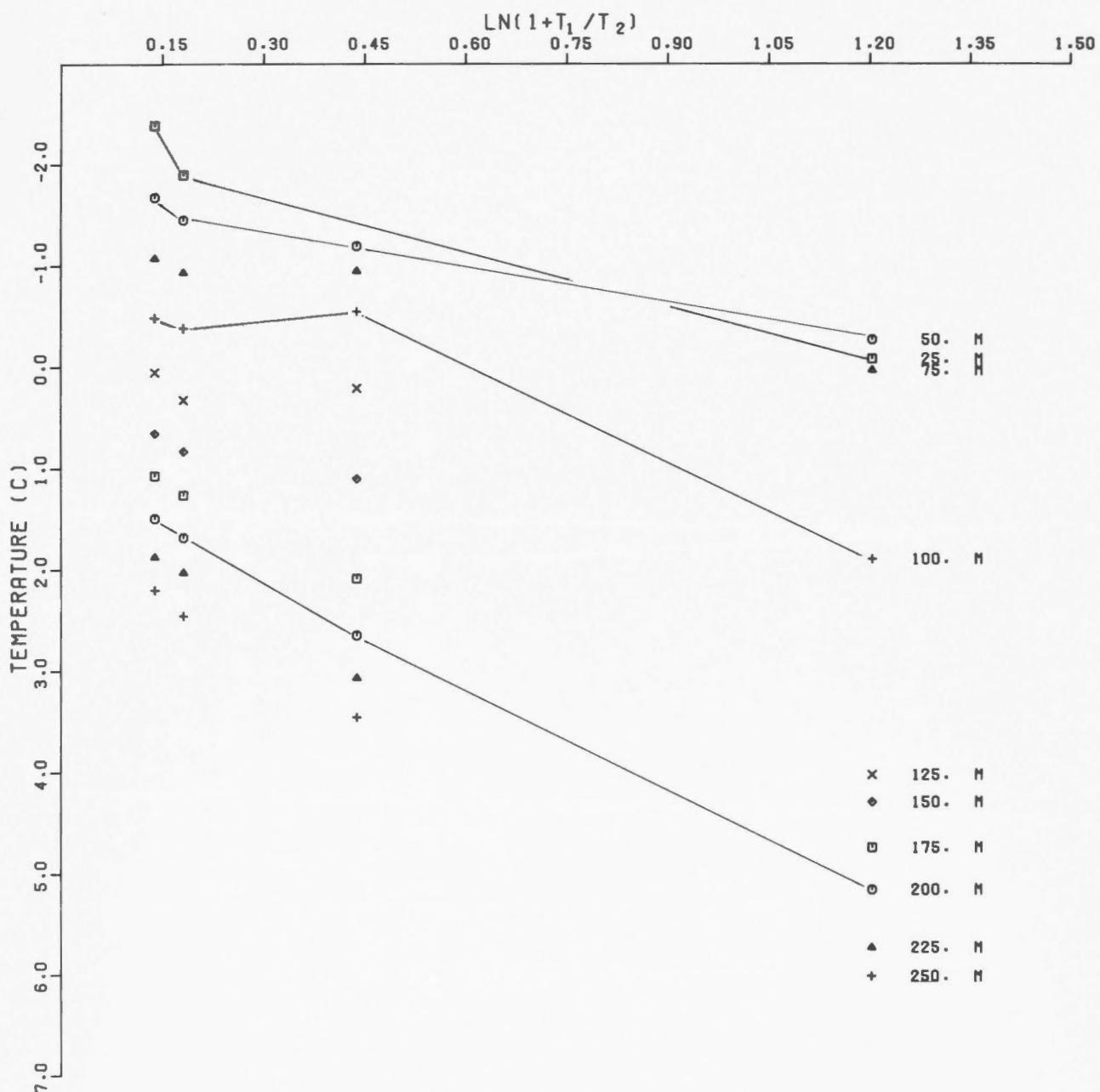


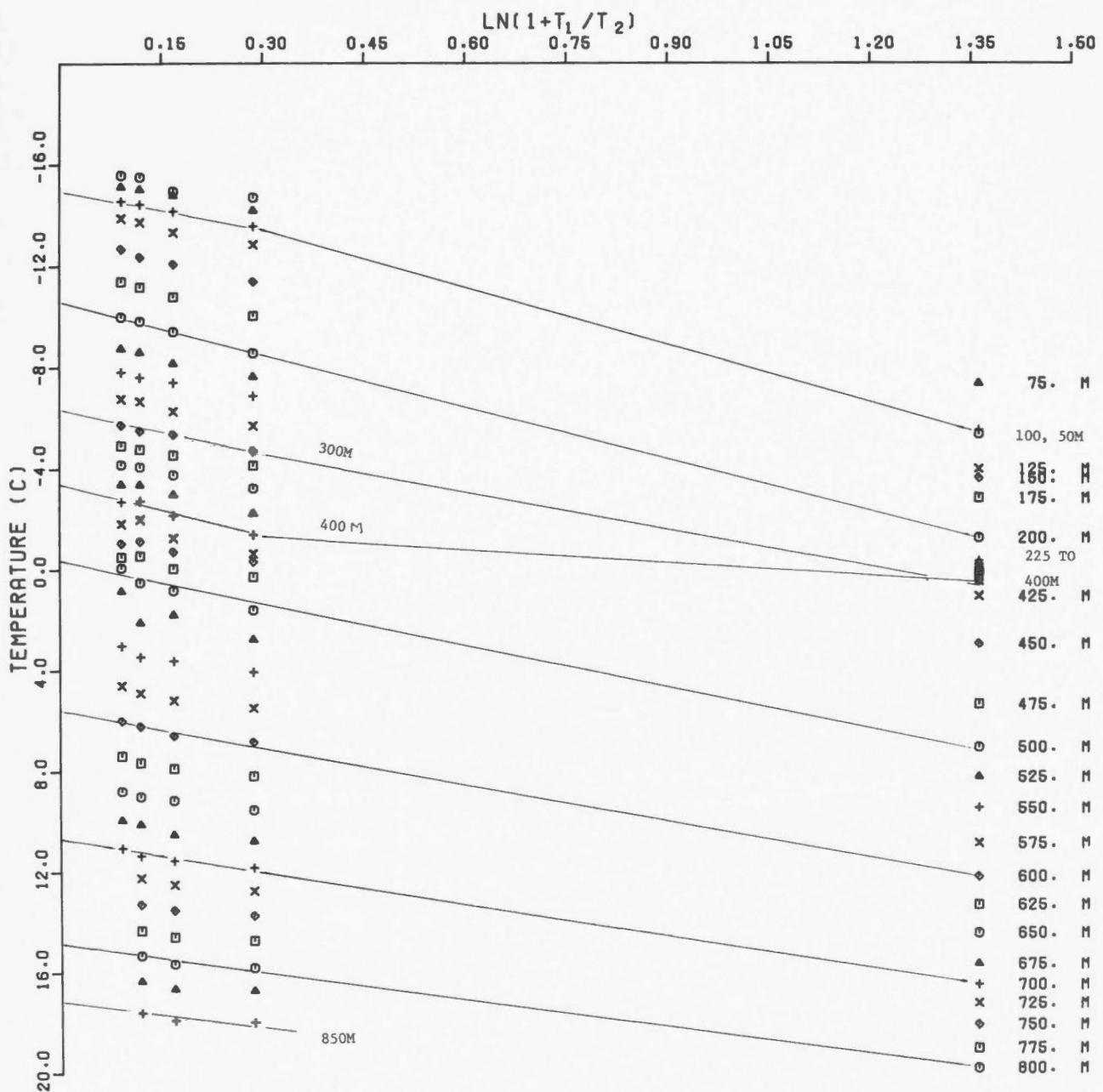
169 LOUISE BAY 0-25

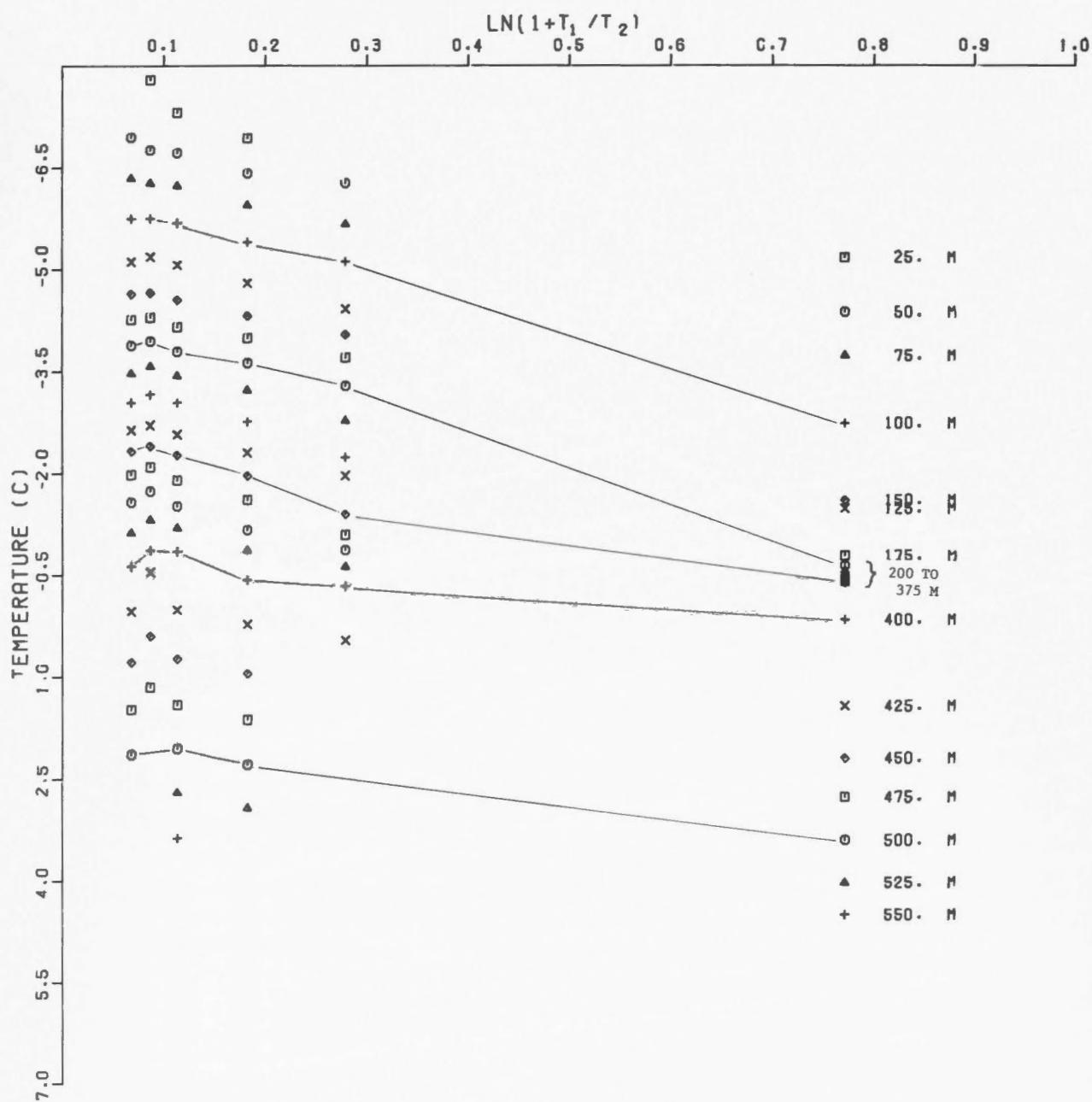


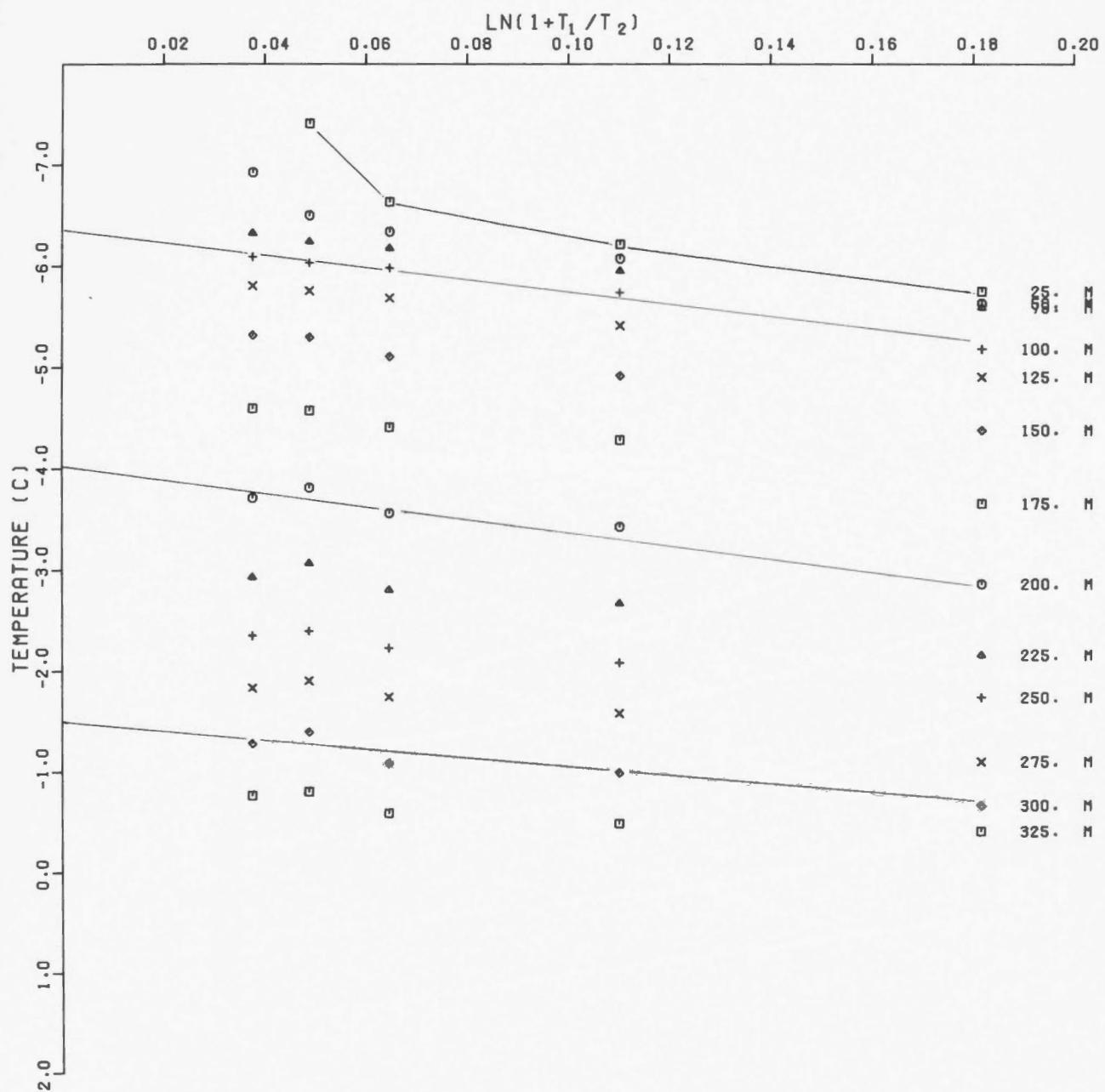


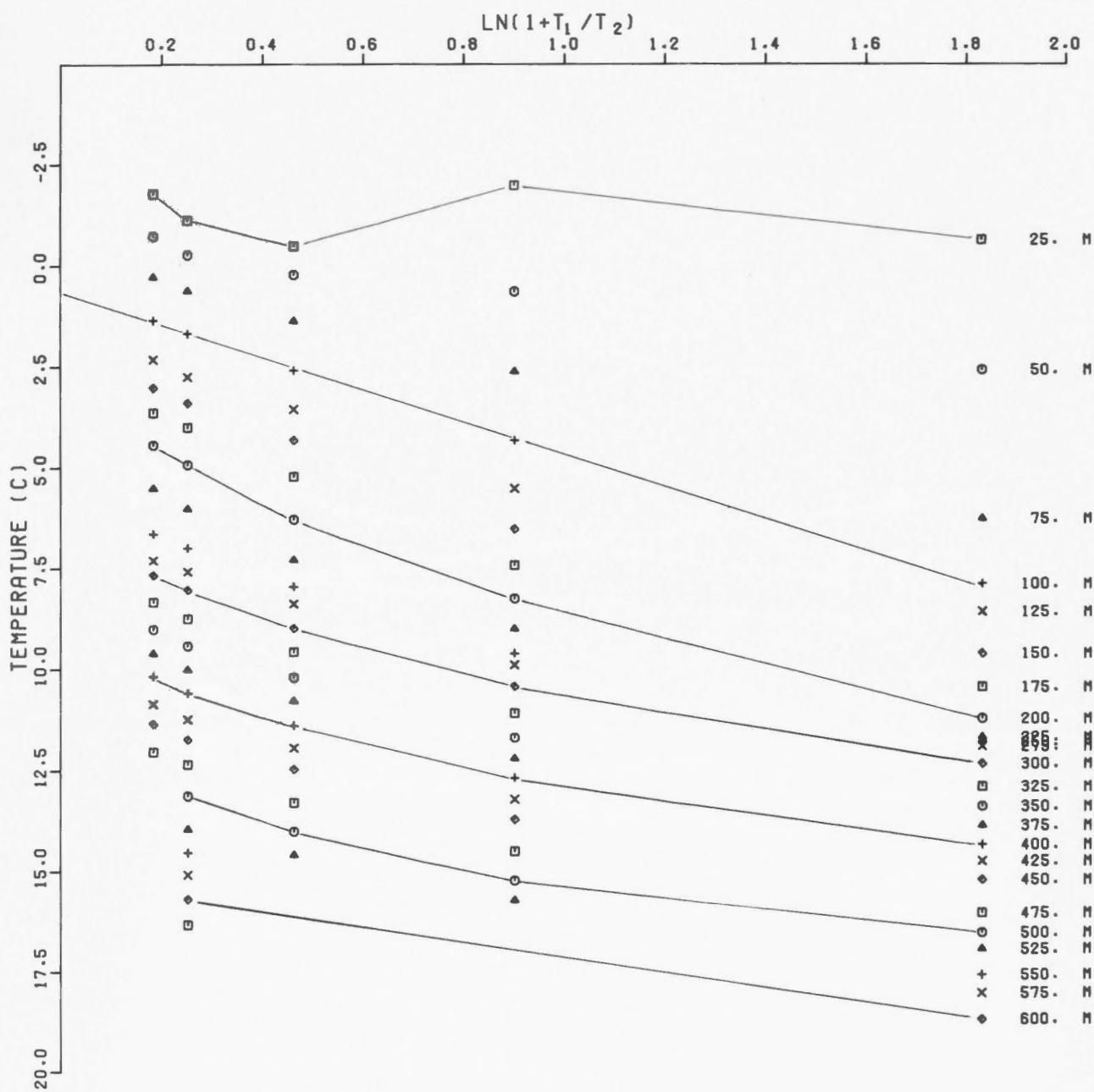


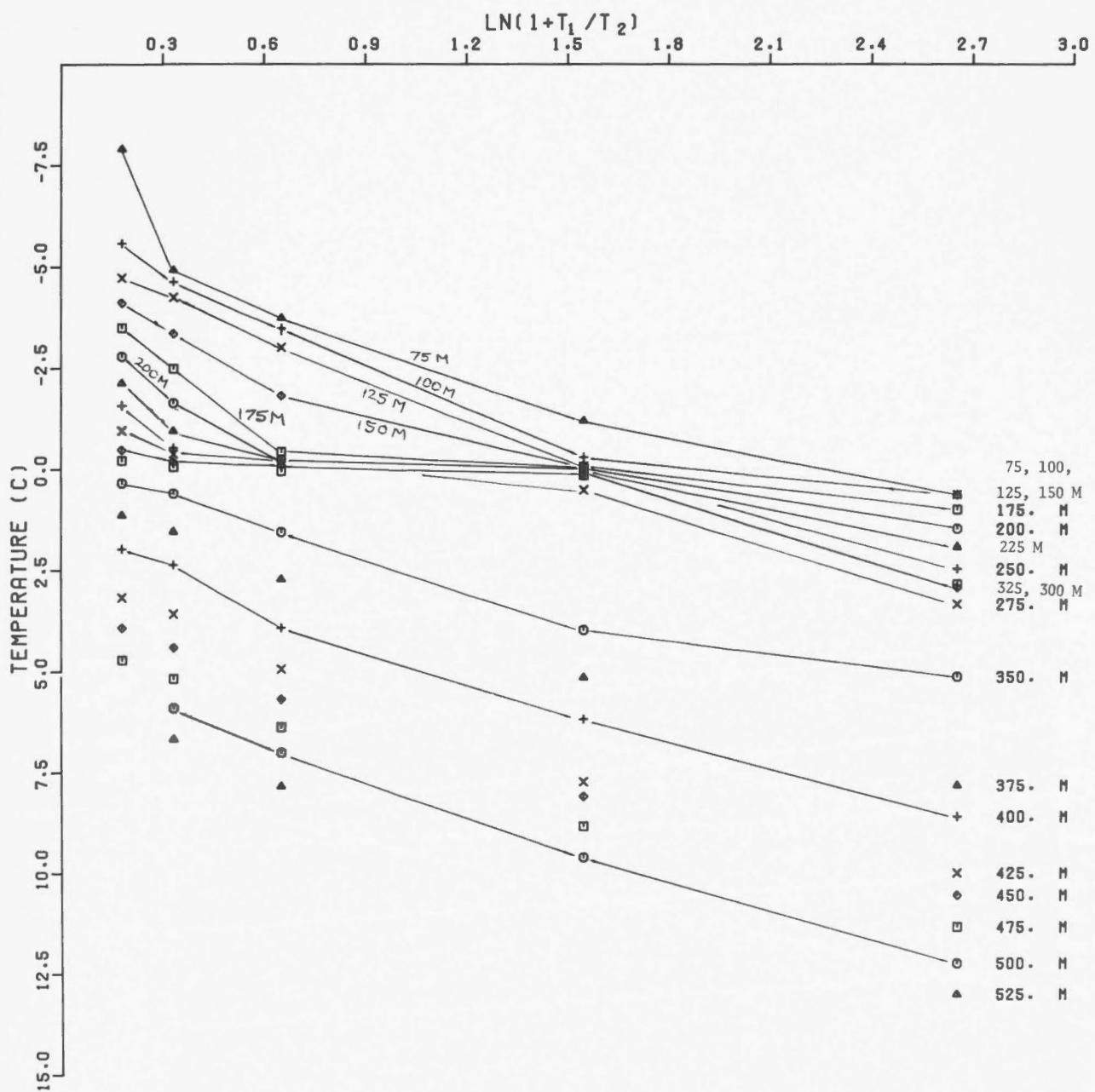




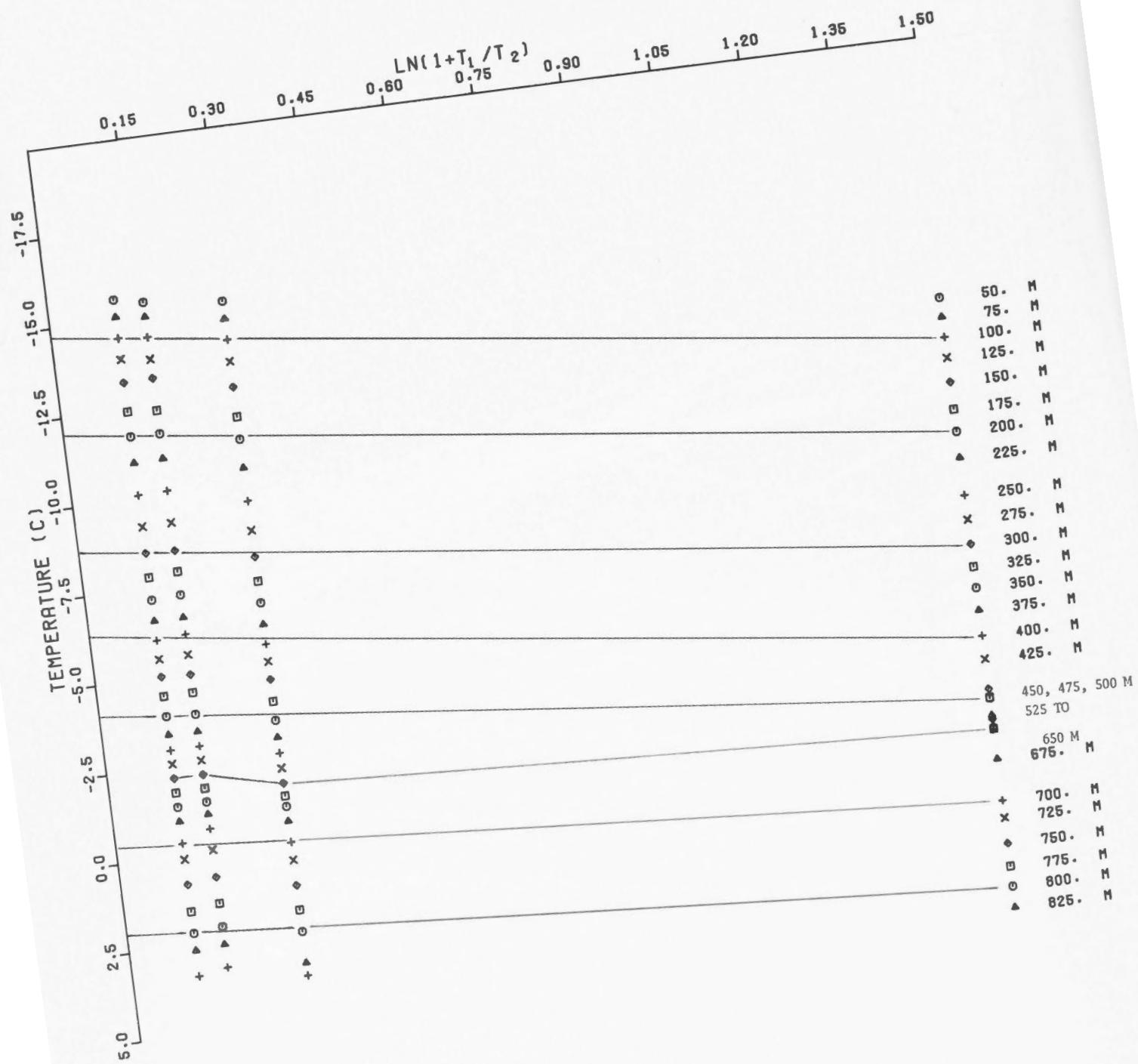


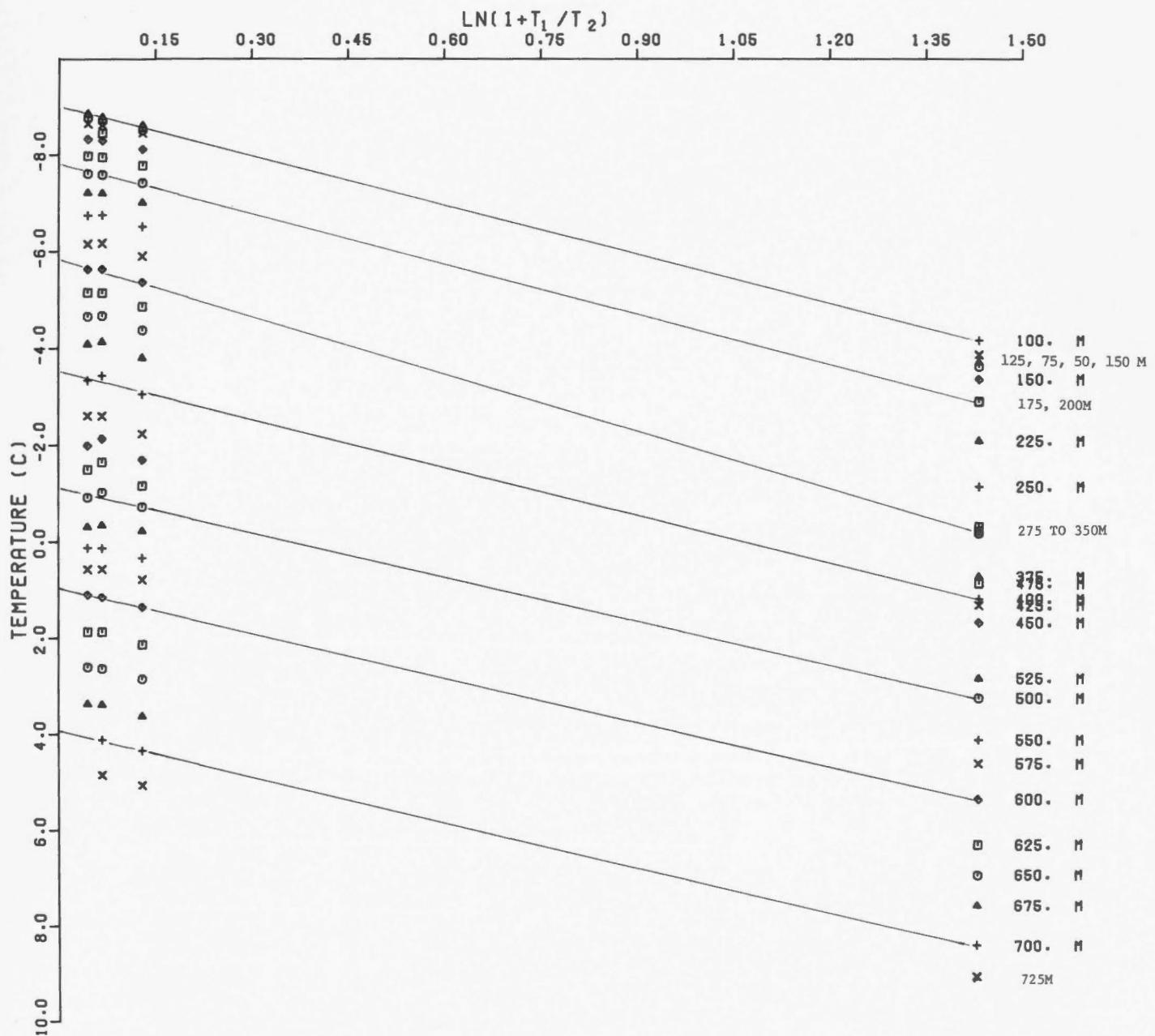


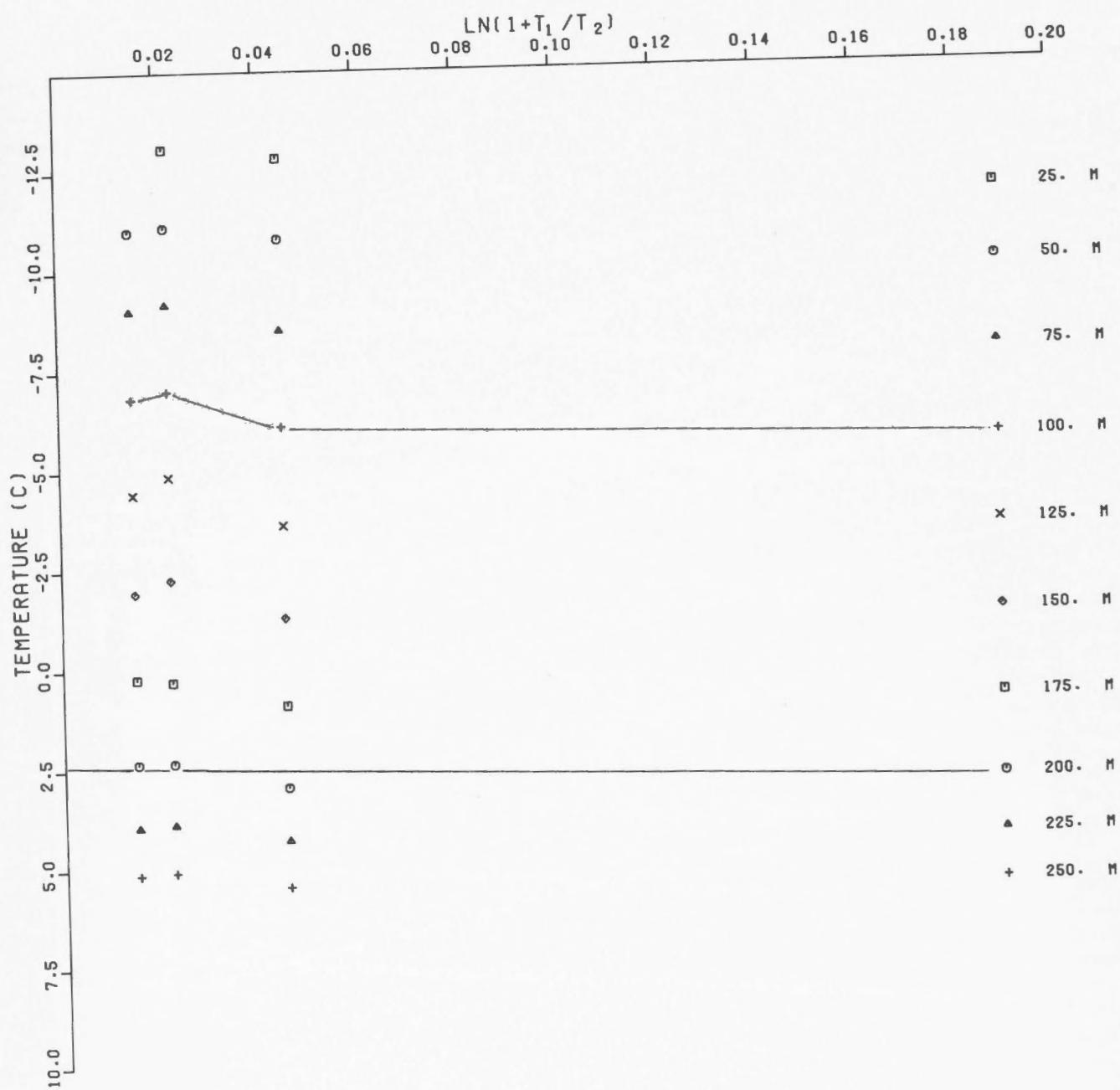


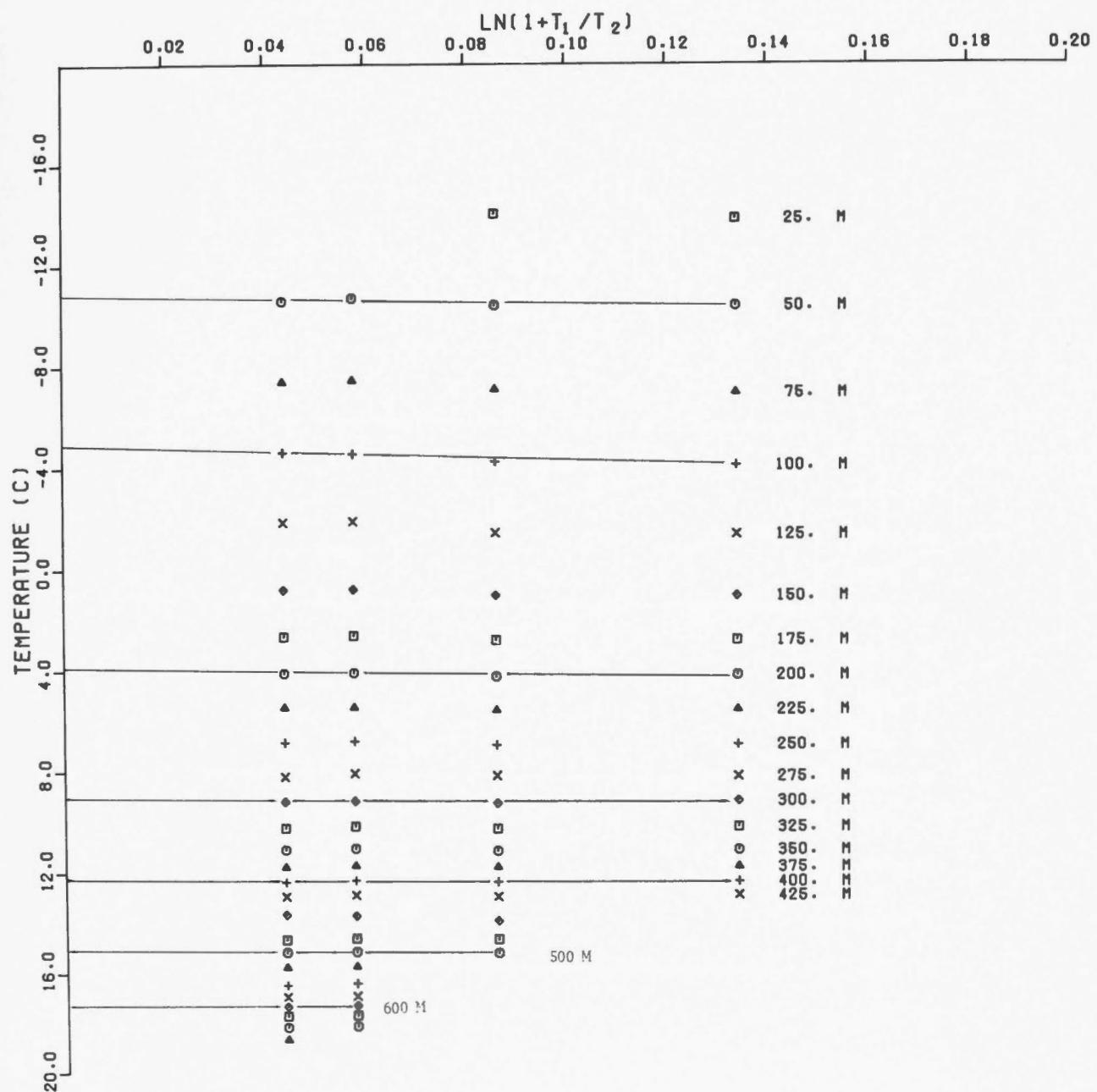


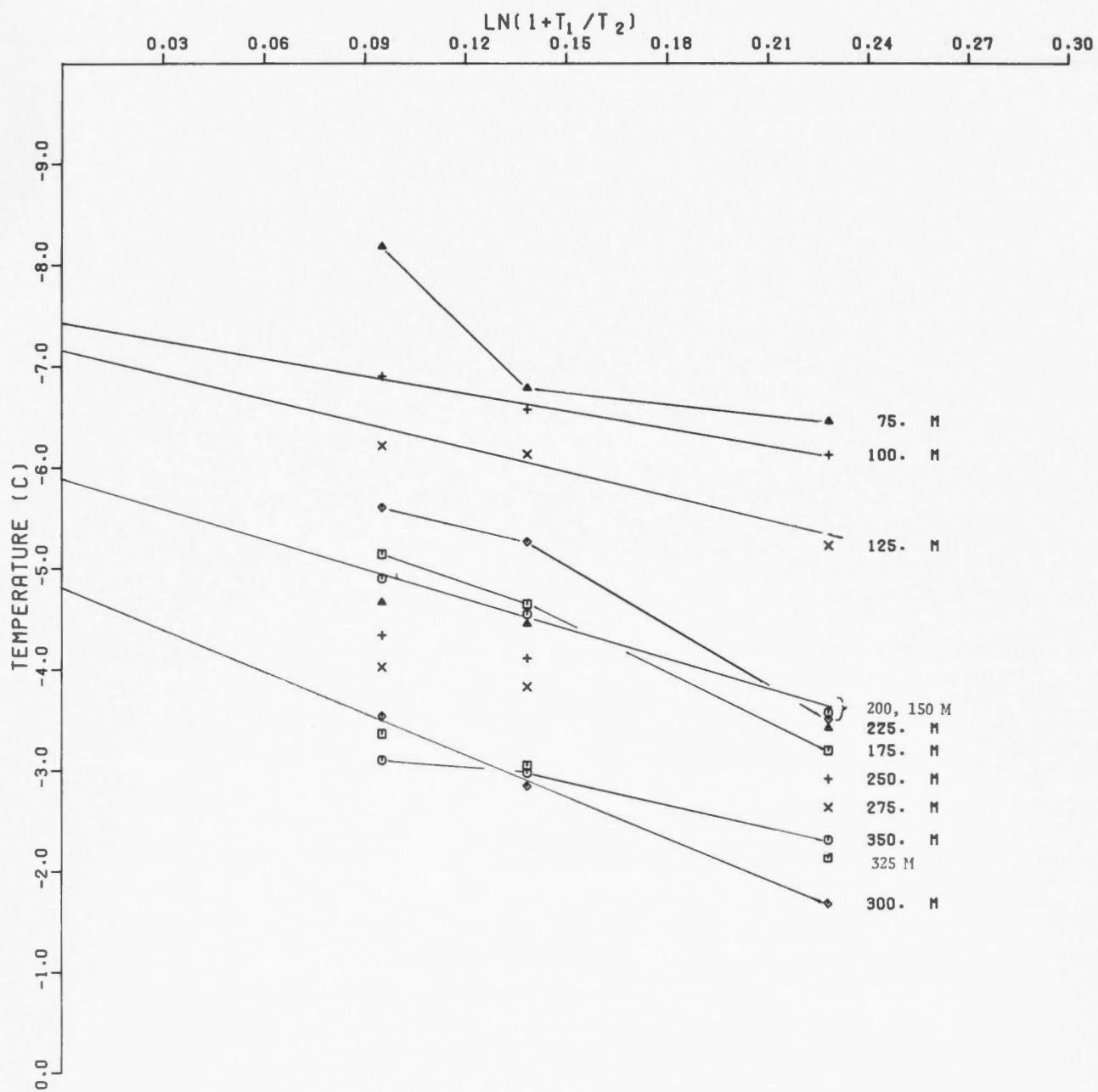
196 BENT HORN N-72











257 PEDDER POINT D-49

