



Energy, Mines and
Resources Canada

Énergie, Mines et
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Earth Physics Branch

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**Geothermal Service
of Canada**

**Service géothermique
du Canada**

SUPPLEMENT TO
**CANADIAN GEOTHERMAL DATA COLLECTION
— NORTHERN WELLS 1977-78**

A.S. Judge, A.E. Taylor and L. Rutledge

64 pages, including 29 tables and 26 graphs

Price: \$18.75

Earth Physics Branch Open File Number 79-13

Ottawa, Canada 1979

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ABSTRACT

This report supplements Canadian Geothermal Data Collection - Northern Wells, 1977 - 1978, reporting subsurface temperature data collected between August, 1978 and July, 1979 from wells of total depth greater than 125 m. New measurements are reported at 13 of the sites previously listed in the collection, and from one new site.

RÉSUMÉ

Le présent volume s'ajoute au Recueil des Données Géothermiques Canadiennes - Puits d'Exploration dans le Grand-Nord, 1977-78. On présente les données relatives à la température du sous-sol, recueillies entre août, 1978 et juillet, 1979 au moyen de sondages dont la profondeur totale est supérieure à 125 m. Le présent volume fait état des nouvelles mesures effectuées à 13 des emplacements énumérés dans les volumes précédents et à un emplacement nouveau.

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The Geothermal Service of the Earth Physics Branch, Department of Energy, Mines and Resources publishes a collection of subsurface temperature data for Canada north of 60° at intervals of approximately a year and a half. The five volumes published to date, hereafter referred to as the collection, are listed in the Bibliography. This report supplements the latest volume (Geothermal Series #11, 1979), adding temperature data collected between August 1978 and July 1979 from 13 sites listed previously and one new site. The collection and this supplement present measurements from 31 sites in the Arctic Islands, 40 in the Mackenzie Delta and another 28 in the Arctic mainland.

The purpose and history of the measurements, the methods of preservation of wells and data acquisition, and the presentation of the temperatures have been described in the previous volumes. This supplement is compatible with the collection. Table 1 lists the 13 sites for which new data have been acquired, and the new site at Asbestos Hill, number 114-8. Permafrost thicknesses determined with the advantage of this increased data have not changed significantly; Table 2 lists all 99 sites reported to date in the collection. Maps showing the location of these sites are available in Geothermal Series #11. Appendix 1 presents tables of measured temperatures versus depth; graphs of the same data are given in Appendix 2. On the assumption that the return of a well to thermal equilibrium can be expressed by a logarithmic relationship, equilibrium temperatures are calculated and presented in Appendix 3, and depicted graphically in Appendix 4.

The collection, with this supplement, is believed to contain all available non-confidential subsurface temperature data from holes to depths greater than 125 m within the permafrost regions of Canada. The authors would greatly appreciate receiving any additional data and the opportunity to make temperature measurements at other suitable sites.

Acknowledgements

The authors would like to acknowledge with grateful thanks the many individuals and organizations who have assisted in the data acquisition. Wells this year were logged with the cooperation of Gulf Oil Canada Ltd., Imperial Oil Limited, Panarctic Oils Ltd. and the Asbestos Corporation of Canada Ltd. Logistic support for the work was provided by the Polar Continental Shelf Project, by the Ministry of Transport through the Energy Research and Development Programme, by the Department of Indian and Northern Affairs, and by the Earth Physics Branch. Assistance in equipment preparation and in field work was provided by V. Allen.

The results contained in this report are part of a continuing northern programme of the Geothermal Service of the Earth Physics Branch, E.M.R.

TABLE I
SITES INCLUDED IN REPORT

TABLEAU I
SITES INCLUS DANS LE RAPPORT

EPR NO.	SITE NAME INDICATIF DU SITE	LATITUDE N	LONGITUDE W/O	ELEV (M)	Z (MAX) (M)	TECH- NIQUE
ARCTIC ISLANDS		ARCHIPEL ARCTIQUE				
172	DRAKE B-44	76 23.1	108 16.1	4	352	S
196	BENT HORN N-72	76 21.8	103 58.2	63	869	S
199	DRAKE E-78	76 27.3	108 29.4	2	277	S
259	DRAKE D-73	76 22.1	108 29.5	33	410	S
286	BENT HORN N-72A	76 21.5	103 58.2	43	808	S
MACKENZIE DELTA		DELTA DU MACKENZIE				
272	PARSONS L-43	68 52.6	133 41.9	49	766	S
273	KAMIK D-48	68 57.2	133 27.5	31	314	S
275	PARSONS N-17	68 56.9	133 34.0	52	744	S
277	SIKU A-12	69 1.0	133 32.5	56	551	S
279	PARSONS L-37	68 56.7	133 39.9	38	337	S
284	SIKU E-21	69 .5	133 36.9	55	432	S
285	PARSONS D-20	68 59.2	133 34.4	62	723	S
287	TAGLU H-54	69 23.3	134 58.1	1	770	S
ARCTIC MAINLAND		ARCTIQUE CONTINENTAL				
114	ASBESTOS HILL -8	61 49.8	73 57.1	472	260	M

NOTES...

1. EPB NO. = EARTH PHYSICS BRANCH SITE NUMBER, BY WHICH DATA ARE ORDERED IN THIS REPORT.
2. Z (MAX) = DEPTH OF DEEPEST TEMPERATURE LOG.
3. TEMPERATURE MEASURING TECHNIQUE:
S = SINGLE THERMISTOR PROBE
M = MULTITHERMISTOR CABLE

REMARQUES...

1. EPB NO. = NUMERO DU SITE ATTRIBUE PAR LA DIRECTION DE LA PHYSIQUE DU GLOBE, D'APRES LEQUEL LES DONNEES SONT RANGEES DANS LE PRESENT RAPPORT.
2. Z (MAX) = LA DIAGRAPHIE DE TEMPERATURE LA PLUS PROFONDE.
3. TECHNIQUES DE MESURE DE LA TEMPERATURE:
S = THERMISTOR UNIQUE
M = CABLE A THERMISTORS MULTIPLES

TABLE 2 PERMAFROST THICKNESS

TABLEAU 2 EPAISSEUR DU PERGELISOL

EPR NO.	SITE NAME INDICAT DU SITE	LATITUDE N	LONGITUDE W/O	Z 0°C	Z FROZEN GELEE	T2/T1	DISTANCE TO WATER BODY DISTANCE DE LA MASSE D'EAU (KM)	REF
ARCTIC ISLANDS								
ARCHIPEL ARCTIQUE								
197	NEIL O-15	80 44.6	83 4.8	E 553		21	4.5	10
175	GEMINI E-10	79 59.4	84 4.2	E 502		13	20	11
97	FOSHEIM N-27	79 36.9	84 43.3	300*		.02	7	1
166	MOKKA A-02	79 31.2	87 1.2	EX500		17	3	11
169	LOUISE BAY O-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	KWISTOFFER BAY B-06	78 15.3	102 32.0	E 445		13	.1	10
170	THOR P-34	78 7.8	103 15.2	E 336		52	.1	10
84	MOODOO DOME H-37	78 6.5	99 45.6	E 306		8.7	13	10
158	RKOCK 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	LINCKFNS ISLAND P-46	77 45.8	97 45.4	E 253		27	.01	11
256	SUTHERLAND O-23	77 42.9	102 8.5	E 320		3.7	1	11
258	PAT RAY A-72	77 21.0	105 27.0	300*		12	2	10
91	JAMESON HAY C-31	76 40.2	116 43.7	E 483		13.5	12	3
199	DRAKE F-78	76 27.3	108 29.4	E 171		114	.1	10
198	DRAKE O-68	76 27.1	108 55.7	210*		.5	12	3
172	UNAKE R-44	76 23.1	108 16.1	E 188		83	.2	10
259	UNAKE D-73	76 22.1	108 29.5	E 288		87	3	11
196	BENT HORN N-72	76 21.8	103 58.2	E 726	680+-15	14	2	11
286	BENT HORN N-72A	76 21.5	103 58.2	639*		22	2	11
200	HECLA I-69	76 18.7	110 23.3	E 144		22	.3	10
257	PEPPER POINT D-49	75 38.2	118 48.3	E 343		31	7	10
99	DEVON F-45	75 4.3	91 48.3	X 600*		15	1.6	6
73	WINTER HANNOUR	74 48.1	110 30.6	E 535		19	1	1
0	RESOLUTE I	74 41.0	94 53.8	X 380			.1	1
55	LUPITOS 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		20	21	11
97	GARNIER O-71	73 40.9	90 36.8	500*		.02	2	1
98	STORKERSON BAY A-15	72 54.0	124 33.5	X 500		3.1	1.6	1
95	HOWLEY M-04	69 4.0	79 3.8	E 400		47	3	3
MACKENZIE DELTA								
DELTA DU MACKENZIE								
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	KILAGMIUTAK F-48	69 27.5	134 11.9	X 600		8	.2	11
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	*		21	1	11
288	GARRY P-04	69 23.8	135 30.3	502*		17	0.4	11
287	TAGLU H-54	69 23.3	134 58.1	E 533		9	0.2	11
264	PIKIOLIK E-54	69 23.2	132 44.6	432*		34	.2	10
282	TAGLU N-43	69 22.8	134 56.3	*		115	0.5	11
268	TAGLU D-43	69 22.3	134 56.8	X 670		20	.3	11
280	KUMAK E-58	69 17.5	135 14.9	E 272		4.1	0.2	11
267	TAGLU C-42	69 21.0	134 56.6	X 600*		22	.2	11
173	NIGLINTGAK M-30	69 19.4	135 20.1	E 146		12	.2	11
270	NIGLINTGAK M-19	69 18.8	135 19.4	*		1.3	.2	6
278	NIGLINTGAK B-19	69 18.2	135 18.3	E 173	168+-15	13	.5	11
254	YA YA A-28	69 17.2	134 35.5	EX656		15	.3	11
176	YA YA P-53	69 12.8	134 42.7	E 435	402+-15	19	.3	11
271	NORTH ELLICE J-23	69 12.6	135 51.2	E 74	52+- 8	6	.2	11
167	UNIPKAT I-22	69 11.7	135 20.5	E 85		11	.1	11
260	KED FOX P-21	69 10.8	133 35.0	*		9	.15	10
63	HEINDEEK D-27	69 6.1	134 36.9	E 370	338+-15	25	.2	11
177	TITALIK K-26	69 5.5	135 6.3	65*		1.0	.2	1
179	HEINDEEK F-36	69 5.3	134 39.0	EX357	338+- 8	35	.2	11
277	SIKU A-12	69 1.0	133 32.5	E 355	343+- 8	25	.2	11
284	SIKU E-21	69 .5	133 36.9	E 386	389+- 8	12	0.5	11
274	SIKU C-11	69 0.0	133 38.8	E 376	358+- 8	14	.2	11
178	PARSONS N-10	68 59.8	133 31.8	E 354	341+-15	20	.3	11
285	PARSONS D-70	68 59.2	133 34.4	E 348	352+- 8	56	0.1	11
273	KAMIK D-48	68 57.2	133 27.5	EX370		11	1	11
194	ATIGI O-48	68 57.0	133 56.1	EX584	564+-15	32	.1	11
275	PARSONS N-17	68 56.9	133 34.0	E 355	320+-15	10	.1	11
279	PARSONS L-37	68 56.7	133 39.9	X 300*		8	.1	11
192	KUGPIK O-13	68 52.8	135 18.2	E 85		9	.1	11
272	PARSONS L-43	68 52.6	133 41.9	E 294	259+-15	23	.2	11
193	IKHIL I-37	68 46.6	134 7.8	E 346	341+- 8	7	1	11
276	ULU A-35	68 44.0	135 52.9	E 90		3.5	.4	11
89	REAVER HOUSE M-13	68 22.3	135 33.0	E 197		10	1.5	3

TABLE 2 PERMAFROST THICKNESS

TABLEAU 2 EPAISSEUR DU PERGELISOL

EPR NO.	SITE NAME INDICATIF DU SITE	LATITUDE N	LONGITUDE W/O	Z °C	Z FROZEN GELEE	T2/T1	DISTANCE TO WATER BODY DISTANCE DE LA MASSE D'EAU (KM)	REF
ARCTIC MAINLAND								
77	MORTON RIVER G-02	69 51.4	127 15.9	E 141		48	7	11
281	SADENE D-02	68 51.0	126 47.3	309*	314** B	8	2	11
76	KUGALUK N-02	68 32.0	131 31.3	E 102		7	.5	1
253	TEDJI LAKE K-24	67 43.6	126 49.9	E 456		34	.2	11
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
8A	NORMAN WELLS CANOL 30X	65 17.2	126 51.9	143*			.9	1
8A	NORMAN WELLS CANOL 19X	65 17.1	126 52.8	58*			.2	1
8A	NORMAN WELLS CANOL 18X	65 17.1	126 52.0	76*			.6	1
8A	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
8A	NORMAN WELLS REAR I 13	65 15.5	126 53.3	67*			.4	1
8A	NORMAN WELLS REAR I 7	65 15.4	126 52.9	52*			.5	1
94	UAHADINNI H-43A	63 53.0	124 39.3	E 51		5	35	3
6A	YELLOWKNIFE	62 30.5	114 25.3	0		18	.08	1
114	ASBESTOS HILL -8	61 49.8	73 57.1	X 500*		13	10	11
114	ASBESTOS HILL -7	61 49.4	73 57.3	X 500*		100	10	11
114	ASBESTOS HILL -3	61 49.3	73 57.7	X 540*		.4	10	6
114	ASBESTOS HILL -6	61 49.2	73 57.6	X 500*		100	10	11
114	ASBESTOS HILL -1	61 48.9	73 57.9	X 500*		6	10	6
114	ASBESTOS HILL -2	61 47.8	73 58.4	X 500*		365	10	10
283	KENTY LAKE -1	61 29.2	74 26.4	X 500		70	0.5	11
70	PROVIDENCE A-47	61 26.2	117 22.5	0		78	18	1
ARCTIQUE CONTINENTAL								

NOTES...

1. EPB NO. = EARTH PHYSICS BRANCH SITE NUMBER. EARLY SITES TAKEN FROM THE LITERATURE ARE REFERRED TO AS EPR NO 0.
2. Z(0°C) OBTAINED FROM:
 - LOGARITHMIC RETURN TO EQUILIBRIUM TABLES ("E").
 - EXTRAPOLATION TO GREATER DEPTHS ("X").
 - DIRECT INTERPOLATION FROM LATEST LOG ("*").
 LOGS NOT SUITABLE FOR EXTRAPOLATION: ("**").
3. T2 = TIME BETWEEN DRILLING COMPLETION AND LATEST LOG.
T1 = DRILLING TIME.
4. REF = WHERE DATA IS PUBLISHED:
 - 1. TAYLOR AND JUDGE, 1974.
 - 3. TAYLOR AND JUDGE, 1975.
 - 6. TAYLOR AND JUDGE, 1976.
 - 10. TAYLOR AND JUDGE, 1977.
 - 11. JUDGE, TAYLOR AND BURGESS, 1979.

REMARQUES...

1. EPR NO. = INDICATIF DU SITE DONNE PAR LA DIRECTION DE LA PHYSIQUE DU GLOBE. SITES ANCIENS EXTRAITS DE LA DOCUMENTATION SONT DESIGNES PAR L'INDICATIF 0.
2. Z(0°C) EST OBTENU:
 - DES TABLEAUX INDICANT EN FONCTION D'UNE ECHELLE LOGARITHMIQUE LE RETOUR A L'EQUILIBRE THERMIQUE ("E").
 - D'UNE EXTRAPOLATION A DES NIVEAUX PLUS PROFONDS ("X").
 - D'UNE INTERPOLATION DIRECTE DE LA DIAGRAPHIE LA PLUS RECENTE ("*").
 DIAGRAPHIES NE PERMETTANT PAS UNE EXTRAPOLATION: ("**").
3. T2 = TEMPS ECOULE ENTRE LA COMPLETION DU FORAGE ET LA DIAGRAPHIE LA PLUS RECENTE
T1 = TEMPS DE FORAGE.
4. REF = REFERENCE OU LES DONNEES ONT ETE PUBLIEES:
 - 1. TAYLOR ET JUDGE, 1974.
 - 3. TAYLOR ET JUDGE, 1975.
 - 6. TAYLOR ET JUDGE, 1976.
 - 10. TAYLOR ET JUDGE, 1977.
 - 11. JUDGE, TAYLOR ET BURGESS, 1979.

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Northern Wells, 1975.
Geothermal Series Number 6, Earth Physics
Br., EMR, 142 p.

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Northern Wells, 1976-77.
Geothermal Series Number 10, Earth
Physics Br., EMR, 194 p.

Judge, A.S., Taylor, A.E. and Burgess, M. 1979.

Canadian Geothermal Data Collection -
Northern Wells, 1977-78.
Geothermal Series Number 11, Earth
Physics Br., EMR, 187 p.

APPENDICES

1. Tables of Temperature versus Depth

EARTH PHYSICS BRANCH NO.

114 ASBESTOS HILL -8

DIRECTION DE LA PHYSIQUE DU GLOBE NO.

61 DEGREES 49.8 MINUTES NORTH
73 DEGREES 57.1 MINUTES WEST

61 DEGRES 49.8 MINUTES NORD
73 DEGRES 57.1 MINUTES OUEST

ELEVATION 472 METRES

SUMMARY OF DEPTH-TEMPERATURE LOGS

DIAGRAPHIES DONNANT LA TEMPERATURE
EN FONCTION DE LA PROFONDEUR

DATE

30 1 79

DEPTH (M)	TEMP (C)
14.7	-5.64
29.4	-5.84
58.8	-5.74
88.0	-5.61
117.0	-5.27
145.8	-5.07
174.5	-4.69
203.1	-4.27
231.4	-3.95
259.6	-3.62

TEMPERATURE RESULTS ARE OBTAINED
FROM A MULTITHERMISTOR CABLE.
FURTHER TEMPERATURE LOGS
ARE EXPECTED FOR THIS HOLE.

TEMPERATURES OBTENUES A PARTIR D'UN
CABLE A THERMISTORS MULTIPLES.
ON PREVOIT ENTREPRENDRE D'AUTRES
SONDAGES DE LA TEMPERATURE DE CE Puits.

SOC. ASBESTOS/ASBESTOS CORP. 78-AH-198
-WELL SPUNNED 26 8 78
-DRILLING FOR 11 DAYS
-TOTAL DEPTH 0 METRES
-DRILLING STOPPED 6 9 78

SOC. ASBESTOS/ASBESTOS CORP. 78-AH-198
-DEMARRAGE DU Puits LE 26 8 78
-FORAGE PENDANT 11 JOURS
-PROFONDEUR TOTALE 0 METRES
-FORAGE ARRETE LE 6 9 78

WELL DIRECTIONALLY DRILLED. DEPTHS IN
TABLES HAVE BEEN CONVERTED TO VERTICAL.

FORAGE OBLIQUE DU Puits.
PROFONDEURS INDIQUEES DANS LES
TABLES ONT ETE RAMENEES A LA
VERTICALE.

6

EARTH PHYSICS BRANCH NO.

172 DRAKE B-44

DIRECTION DE LA PHYSIQUE DU GLOBE NO.

76 DEGRES 23.1 MINUTES NORTH
108 DEGRES 16.1 MINUTES WEST76 DEGRES 23.1 MINUTES NORD
108 DEGRES 16.1 MINUTES OUEST

ELEVATION 4 METRES

SUMMARY OF DEPTH-TEMPERATURE LOGS

DIAGRAPHIES DONNANT LA TEMPERATURE
EN FONCTION DE LA PROFONDEUR

DATE		DATE		DATE		DATE		DATE	
7 5 73		16 5 74		6 5 75		17 5 76		27 5 79	
Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)
15.8	-14.23	15.2	-14.54	16.1	-14.54	30.8	-13.66	15.8	-14.93
31.4	-13.32	35.4	-13.53	32.5	-13.55	53.3	-12.02	31.5	-13.72
47.5	-12.04	53.3	-12.04	52.2	-12.34	76.5	-10.39	47.0	-12.51
62.8	-11.01	70.4	-10.66	67.1	-11.19	99.1	-8.52	62.1	-11.32
78.3	-9.63	86.6	-9.35	82.1	-9.84	121.9	-6.46	77.6	-10.36
93.3	-8.35	102.1	-7.96	97.0	-8.48	144.8	-4.16	93.1	-8.84
108.5	-6.86	117.0	-6.68	111.6	-7.02	167.6	-2.10	108.5	-7.40
123.4	-5.57	132.0	-5.05	126.8	-5.56	190.5	.32	124.3	-5.77
138.7	-3.68	146.9	-3.40	141.7	-4.04	213.4	1.94	139.4	-4.13
153.6	-2.25	162.2	-1.92	156.4	-2.68	236.5	3.12	154.9	-2.68
169.2	-.86	177.1	-.72	172.2	-1.25	259.1	4.27	170.0	-1.26
184.7	.27	191.7	.49	186.2	-.04	289.6	5.69	186.1	.16
199.9	1.60	207.0	1.66	201.1	1.54	313.3	6.85	201.2	1.33
215.2	2.34	221.9	2.44	216.0	2.26	335.3	7.67	216.4	2.16
230.4	3.16	236.8	3.22	231.3	3.04	341.4	8.19	232.2	2.96
245.7	3.94	251.5	3.94	245.9	3.89			247.9	3.85
260.9	4.66	266.4	4.70	260.8	4.59			262.8	4.64
275.8	5.51	281.3	5.50	275.7	5.37			278.5	5.39
291.1	6.25	296.6	6.27	290.6	6.10			294.3	6.23
306.3	6.89	311.5	6.93	305.6	6.73			309.4	6.89
321.3	7.55	326.4	7.50	320.5	7.40			324.6	7.40
336.5	8.06	341.1	8.00	335.1	7.91			340.3	8.03
346.3	8.40			338.4	8.25			352.1	8.26

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

TEMPERATURES OBTENUES A PARTIR DE
SONDAGES AVEC UN THERMISTOR UNIQUE.
ON PREVOIT ENTREPRENDRE D'AUTRES
SONDAGES DE LA TEMPERATURE DE CE PUIITS.

PANARCTIC TENNECO ET AL DRAKE B-44
-WELL SPUDDED 23 9 72
-DRILLING FOR 29 DAYS
-TOTAL DEPTH 1396 METRES
-WELL ABANDONED 22 10 72

PANARCTIC TENNECO ET AL DRAKE B-44
-DEMARRAGE DU PUIITS LE 23 9 72
-FORAGE PENDANT 29 JOURS
-PROFONDEUR TOTALE 1396 METRES
-ABANDON DU PUIITS LE 22 10 72

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

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EARTH PHYSICS BRANCH NO.

196 BENT HORN N-72

DIRECTION DE LA PHYSIQUE DU GLOBE NO.

76 DEGREES 21.8 MINUTES NORTH
103 DEGREES 58.2 MINUTES WEST76 DEGRES 21.8 MINUTES NORD
103 DEGRES 58.2 MINUTES OUEST

ELEVATION 63 METRES

DIAGRAMMES DONNANT LA TEMPERATURE
EN FONCTION DE LA PROFONDEUR

SUMMARY OF DEPTH-TEMPERATURE LOGS

DATE 17 5 74		DATE 6 5 75		DATE 15 5 76		DATE 17 5 77		DATE 25 5 78		DATE 27 5 79	
Z(M)	T(C)	Z(M)	T(C)	Z(M)	T(C)	Z(M)	T(C)	Z(M)	T(C)	Z(M)	T(C)
32.0	-13.11	29.8	-15.44	30.5	-15.59	30.7	-15.84	15.9	-16.25	61.8	-15.48
61.9	-12.50	59.4	-15.04	61.3	-15.31	61.8	-15.42	31.5	-15.82	93.1	-14.78
92.0	-11.81	89.5	-14.33	91.7	-14.65	92.2	-14.69	62.3	-15.42	123.7	-14.03
122.8	-11.12	120.0	-13.62	122.2	-13.87	122.9	-13.97	93.3	-14.71	154.6	-13.22
153.3	-10.29	150.7	-12.74	152.4	-13.24	153.6	-13.17	124.5	-13.97	185.5	-12.18
184.7	-9.31	181.1	-11.73	182.9	-12.09	184.3	-12.14	155.4	-13.16	216.4	-11.46
216.1	-8.65	211.0	-11.06	213.7	-11.46	215.1	-11.38	185.7	-12.27	247.6	-10.29
246.0	-7.31	240.5	-9.90	244.1	-10.35	245.5	-10.27	216.0	-11.40	278.5	-9.34
277.1	-6.46	270.4	-8.88	274.3	-9.27	276.5	-9.17	246.9	-10.36	309.1	-8.31
307.2	-5.63	300.2	-8.01	304.8	-8.32	307.5	-8.27	277.2	-9.17	339.7	-7.53
336.8	-4.90	330.0	-7.19	335.3	-7.65	338.0	-7.46	307.8	-8.22	370.9	-6.82
366.7	-4.22	359.9	-6.49	366.1	-6.76	368.7	-6.73	338.8	-7.46	401.9	-6.09
396.5	-3.34	389.7	-5.77	396.2	-6.20	399.7	-6.05	369.4	-6.71	433.1	-5.50
426.4	-2.56	419.6	-5.19	427.0	-5.49	430.1	-5.40	399.7	-6.03	463.7	-4.82
456.3	-1.55	449.4	-4.60	457.2	-4.84	461.2	-4.81	430.6	-5.39	494.6	-4.07
486.2	-1.51	479.2	-3.86	480.1	-4.39	491.6	-4.09	460.9	-4.81	525.5	-3.55
501.1	-1.51	509.1	-3.25	503.2	-3.80	522.3	-3.45	491.5	-4.03	556.4	-2.95
509.0	-1.25	538.9	-2.72	526.1	-3.38	553.0	-2.92	527.1	-3.42	587.4	-2.45
516.0	-1.11	568.8	-2.20	548.6	-3.01	584.1	-2.44	552.7	-2.92	607.7	-2.14
523.6	-1.04	598.6	-1.70	571.8	-2.64	599.1	-2.20	583.3	-2.41		
531.6	-1.00	613.8	-1.49	594.4	-2.28	614.8	-1.97	613.9	-1.93		
538.6	-0.97	628.4	-1.28	617.5	-1.93	630.1	-1.68	644.5	-1.40		
545.9	-0.96	643.3	-1.08	640.4	-1.57	645.5	-1.45	675.1	-0.84		
560.8	-0.90	658.3	-0.97	662.9	-1.24	660.6	-1.22	705.7	-0.20		
575.8	-0.82	673.2	-0.69	686.1	-0.96	675.9	-0.96	721.3	.15		
590.7	-0.73	688.1	-0.20	708.7	-0.51	691.3	-0.50	736.3	.54		
605.6	-0.65	703.0	.01	731.5	.08	707.3	-0.26	766.9	1.43		
620.6	-0.65	718.3	.30	754.4	.82	722.0	.00	797.5	2.28		
635.5	-0.63	732.9	.68	777.2	1.48	737.1	.40				
643.1	-0.60	748.1	1.13	800.1	2.07	752.7	.87				
650.4	-0.67	762.4	1.52	823.0	2.51	768.4	1.33				
658.4	-0.63	777.6	1.95	845.8	3.11	783.5	1.84				
665.4	-0.33	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	3.40										
814.7	4.10										
844.6	4.94										

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

TEMPERATURES OBTENUES A PARTIR DE
SONDAGES AVEC UN THERMISTOR UNIQUE.
ON PREVOIT ENTREPRENDRE D'AUTRES
SONDAGES DE LA TEMPERATURE DE CE Puits.

PANARCTIC TENNECO ET AL BENT HORN N-72
-WELL SPOOLED 24 11 73
-DRILLING FOR 133 DAYS
-TOTAL DEPTH 4383 METRES
-WELL ABANDONED 6 4 74

PANARCTIC TENNECO ET AL BENT HORN N-72
-DEMARRAGE DU Puits LE 24 11 73
-FORAGE PENDANT 133 JOURS
-PROFONDEUR TOTALE 4383 METRES
-ABANDON DU Puits LE 6 4 74

DIRECTION DE LA PHYSIQUE DU GLOBE NO.

76 DEGREES 27.3 MINUTES NORTH
108 DEGREES 29.4 MINUTES WEST

76 DEGRES 27.3 MINUTES NORD
108 DEGRES 29.4 MINUTES OUEST

ELEVATION 2 METRES

SUMMARY OF DEPTH-TEMPERATURE LOGS

DIAGRAPHIES DONNANT LA TEMPERATURE
EN FONCTION DE LA PROFONDEUR

DATE 5 8 74		DATE 6 5 75		DATE 17 5 76		DATE 17 5 77		DATE 27 5 79	
Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)
13.7	-12.78	17.0	-13.60	23.2	-13.23	32.0	-12.32	15.8	-14.52
29.0	-11.59	31.6	-12.19	45.4	-11.45	62.5	-10.11	32.2	-12.74
43.6	-10.53	46.8	-11.06	68.6	-9.75	93.2	-7.45	46.4	-11.40
58.5	-9.44	65.6	-9.53	91.4	-7.76	108.6	-6.03	62.1	-10.09
73.4	-8.05	80.5	-7.92	114.4	-5.75	124.1	-4.50	78.2	-8.62
88.4	-6.68	95.4	-6.50	137.1	-3.84	139.3	-3.06	93.3	-7.15
103.2	-5.36	109.7	-5.24	159.6	-1.12	154.5	-1.47	108.7	-5.83
118.4	-4.09	125.1	-3.60	182.1	.92	169.7	-.31	123.7	-4.33
132.8	-2.69	139.8	-2.20	204.5	2.68	184.8	1.15	139.0	-2.82
147.6	-1.46	154.2	-.92	226.8	3.97	199.6	2.31	154.2	-1.39
162.3	-.23	168.6	.37	249.1	5.03	214.9	3.48	169.4	-.13
177.3	1.10	183.9	1.65	270.9	6.10	230.0	4.16	185.2	1.34
191.6	2.31	198.5	2.88	273.8	6.31	244.6	4.88	214.6	3.57
206.3	3.40	213.1	3.70			259.6	5.59	230.3	4.17
220.9	4.17	227.3	4.41			274.4	6.28	245.5	4.99
235.4	4.82	241.8	5.14			277.4	6.29	259.7	5.64
249.9	5.57	256.3	5.73					275.2	6.34
264.4	6.10	271.0	6.39						
273.8	6.72								

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

TEMPERATURES OBTENUES A PARTIR DE
SONDAGES AVEC UN THERMISTOR UNIQUE.
ON PREVOIT ENTREPRENDRE D'AUTRES
SONDAGES DE LA TEMPERATURE DE CE PUIITS.

PANARCTIC POR HOMESTEAD DRAKE E-78

- WELL SPUDDED 2 5 74
- DRILLING FOR 16 DAYS
- TOTAL DEPTH 1356 METRES
- DRILLING STOPPED 18 5 74
- WELL ABANDONED 27 5 74

PANARCTIC POR HOMESTEAD DRAKE E-78

- DEMARRAGE DU PUIITS LE 2 5 74
- FORAGE PENDANT 16 JOURS
- PROFONDEUR TOTALE 1356 METRES
- FORAGE ARRETE LE 18 5 74
- ABANDON DU PUIITS LE 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.

DIRECTION DE LA PHYSIQUE DU GLOBE NO.

76 DEGRÉS 22.1 MINUTES NORTH
108 DEGRÉS 29.5 MINUTES WEST

76 DEGRÉS 22.1 MINUTES NORD
108 DEGRÉS 29.5 MINUTES OUEST

ELEVATION 33 METRES

SUMMARY OF DEPTH-TEMPERATURE LOGS

DIAGRAMMES DONNANT LA TEMPERATURE
EN FONCTION DE LA PROFONDEUR

DATE 16 5 75		DATE 23 5 76		DATE 26 5 78		DATE 27 5 79	
Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)
32.0	-2.6A	23.5	-15.3B	7.7	-17.47	15.8	-16.06
64.6	-5.70	46.0	-14.71	15.4	-15.98	34.0	-15.24
98.1	-5.42	68.9	-13.82	31.0	-15.36	50.6	-14.54
130.1	-3.92	91.7	-12.68	45.8	-14.72	66.7	-13.90
161.5	-2.83	114.3	-11.29	61.4	-14.16	83.7	-13.22
192.0	-1.87	137.2	-10.15	76.8	-13.44	100.3	-12.25
222.5	-.21	160.0	-8.89	92.5	-12.68	116.4	-11.08
238.0	.92	183.2	-7.50	107.2	-11.79	132.2	-10.64
253.0	1.74	205.7	-6.02	121.5	-10.95	148.2	-9.76
268.5	2.94	228.9	-4.54	139.2	-10.07	164.3	-8.60
299.0	4.14	251.8	-3.00	154.5	-9.24	179.4	-7.84
329.2	5.46	274.3	-.97	169.9	-8.32	195.5	-6.80
359.7	6.89	297.5	.67	185.0	-7.42	210.6	-5.58
390.4	8.07	312.4	1.33	200.6	-6.64	226.4	-4.50
393.2	8.55	327.7	2.22	215.4	-5.38	241.2	-3.19
		342.9	3.00	231.0	-3.90	256.7	-1.88
		358.4	3.62	246.4	-2.90	272.2	-.78
		373.4	4.64	261.8	-1.64	287.6	.30
		388.6	5.31	277.1	-.50	303.1	1.08
				292.5	.29	318.8	1.93
				307.9	1.27	334.0	2.65
				323.2	2.00	349.1	3.47
				338.6	2.70	364.3	4.10
				354.3	3.57	380.0	5.08
				369.3	4.39	395.5	5.88
				384.7	5.07	406.0	6.21
				400.1	5.93		
				409.6	6.15		

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

TEMPERATURES OBTENUES A PARTIR DE
SONDAGES AVEC UN THERMISTOR UNIQUE.
ON PREVOIT ENTREPRENDRE D'AUTRES
SONDAGES DE LA TEMPERATURE DE CE Puits.

PANARCTIC TENNECO ET AL DRAKE D-73
-WELL SPUDDED 23 4 75
-DRILLING FOR 17 DAYS
-TOTAL DEPTH 1361 METRES
-WELL ABANDONED 10 5 75

PANARCTIC TENNECO ET AL DRAKE D-73
-DEMARRAGE DU Puits LE 23 4 75
-FORAGE PENDANT 17 JOURS
-PROFONDEUR TOTALE 1361 METRES
-ABANDON DU Puits LE 10 5 75

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EARTH PHYSICS BRANCH NO. 272 PARSONS L-43
 DIRECTION DE LA PHYSIQUE DU GLORE NO.

68 DEGREES 52.6 MINUTES NORTH 68 DEGRES 52.6 MINUTES NORD
 133 DEGREES 41.9 MINUTES WEST 133 DEGRES 41.9 MINUTES OUEST

ELEVATION 49 METRES

SUMMARY OF DEPTH-TEMPERATURE LOGS

 DIAGRAPHIES DONNANT LA TEMPERATURE
 EN FONCTION DE LA PROFONDEUR

DATE 26 4 76		DATE 10 7 76		DATE 20 10 76		DATE 12 3 77		DATE 14 8 77		DATE 17 3 78		DATE 15 7 78		DATE 10 7 79	
Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)
30.5	-0.54	30.5	-0.36	30.2	-2.56	30.5	-5.17	15.9	-5.61	15.5	-7.42	17.1	-5.97	36.7	-5.67
45.7	-0.43	45.7	-0.18	61.3	-2.88	59.7	-4.39	30.6	-5.36	30.2	-5.95	30.5	-5.69	51.5	-5.46
61.0	-0.14	61.0	-0.18	91.7	-0.60	88.4	-1.67	46.0	-4.93	64.6	-4.90	61.9	-4.96	65.7	-4.95
91.4	-0.10	91.1	-0.20	121.6	-0.49	118.6	-2.60	61.3	-4.63	95.1	-4.22	92.0	-4.30	81.4	-4.57
121.6	-0.15	122.2	-0.22	152.4	-0.47	149.0	-1.25	76.6	-4.18	125.6	-3.51	122.8	-3.60	96.6	-4.34
152.4	-0.08	152.4	-0.23	182.9	-0.45	179.5	-0.63	91.9	-3.78	156.1	-2.42	153.3	-2.49	129.2	-3.39
182.6	-0.04	182.6	-0.25	213.1	-0.37	209.7	-0.49	107.2	-3.68	186.5	-1.66	183.8	-1.81	158.6	-2.53
213.1	-0.01	213.4	-0.22	243.8	-0.33	239.6	-0.41	122.5	-3.16	217.0	-0.85	214.6	-1.01	189.7	-1.94
244.1	0.03	244.1	-0.18	274.6	0.00	269.7	-0.16	138.1	-2.38	247.5	-0.56	245.4	-0.66	220.2	-1.25
274.6	0.76	274.3	0.33	289.3	0.87	285.0	0.62	153.5	-1.94	278.0	-0.23	275.5	-0.25	251.7	-0.70
304.8	3.86	289.3	1.61	305.1	1.76	300.5	1.27	168.8	-1.50	308.5	0.55	306.3	0.79	281.6	-0.03
335.0	4.93	305.1	2.62	335.3	2.58	330.7	2.12	183.8	-1.02	338.9	1.72	337.1	1.75	313.4	0.93
365.8	5.73	319.7	3.07	365.8	3.41	360.9	2.96	199.1	-0.46	369.4	2.55	367.6	2.62	343.6	1.84
396.2	6.71	335.3	3.44	396.2	4.42	391.4	3.83	214.4	-0.58	399.9	3.51	398.4	3.57	375.1	2.78
426.7	7.71	365.5	4.32	426.7	5.33	421.8	4.88	229.8	-0.35	430.4	4.47	428.5	4.44	405.6	3.78
457.2	8.29	395.9	5.25	456.9	6.46	452.0	5.98	245.1	-0.46	460.9	5.66	459.3	5.85	436.2	4.73
487.7	9.19	426.4	6.12	487.7	7.18	482.2	6.77	260.4	-0.42	491.3	6.47	490.1	6.49	466.7	5.87
		456.9	7.35	517.9	8.24	513.0	7.80	275.4	-0.20	521.8	7.48	520.6	7.59	498.8	6.66
		487.7	7.96					291.0	0.46			551.4	8.84	528.1	7.85
		518.2	9.04					306.3	1.07			582.2	9.78	559.6	8.97
		548.3	10.23					322.0	1.49			613.0	10.63	590.1	9.87
		579.1	11.05					337.0	1.92			643.1	11.50	621.9	10.75
		609.3	11.88					367.6	2.77			673.6	12.32		
								398.5	3.75			704.1	13.26		
								428.9	4.67			734.9	14.43		
								459.5	5.85			765.7	15.40		
								490.1	6.61						

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

TEMPERATURES OBTENUES A PARTIR DE
 SONDAGES AVEC UN THERMISTOR UNIQUE.
 ON PREVOIT ENTREPRENDRE D'AUTRES
 SONDAGES DE LA TEMPERATURE DE CE PUIITS.

GULF MOBIL PARSONS L-43
 -WELL SPUDED 10 12 75
 -DRILLING FOR 53 DAYS
 -TOTAL DEPTH 3305 METRES
 -DRILLING STOPPED 2 2 76
 -WELL ABANDONED 2 2 76

GULF MOBIL PARSONS L-43
 -DEMARRAGE DU PUIITS LE 10 12 75
 -FORAGE PENDANT 53 JOURS
 -PROFONDEUR TOTALE 3305 METRES
 -FORAGE ARRETE LE 2 2 76
 -ABANDON DU PUIITS LE 2 2 76

EARTH PHYSICS BRANCH NO. 273 KAMIK D-48
 DIRECTION DE LA PHYSIQUE DU GLOBE NO.

68 DEGRES 57.2 MINUTES NORTH 68 DEGRES 57.2 MINUTES NORD
 133 DEGRES 27.5 MINUTES WEST 133 DEGRES 27.5 MINUTES OUEST

ELEVATION 31 METRES

SUMMARY OF DEPTH-TEMPERATURE LOGS

DIAGRAMMES DONNANT LA TEMPERATURE EN FONCTION DE LA PROFONDEUR

DATE 26 4 76		DATE 10 7 76		DATE 20 10 76		DATE 12 3 77		DATE 14 8 77		DATE 17 3 78		DATE 16 7 78		DATE 19 7 79	
Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)
15.5	-.33	30.5	-.63	30.5	-1.66	61.0	-4.82	30.9	-5.07	34.1	-6.95	30.2	-5.98	31.2	-6.24
30.5	-.16	45.7	-.97	61.0	-2.79	89.6	-5.07	46.0	-5.58	49.4	-6.24	46.3	-6.16	46.9	-6.32
45.7	-.43	61.0	-.94	91.4	-3.49	120.1	-4.62	63.4	-5.45	64.6	-5.93	61.3	-5.99	62.0	-6.18
61.3	-.60	91.4	-1.56	121.9	-2.97	150.0	-4.20	76.3	-5.30	79.9	-5.77	77.1	-5.89	77.1	-6.07
91.7	-.80	121.9	-.83	152.7	-2.93	180.1	-3.26	92.2	-5.56	95.1	-5.81	91.7	-5.90	93.5	-5.98
121.9	-.48	152.4	-.85	182.6	-1.98	210.9	-2.41	107.5	-5.54	110.3	-5.74	107.9	-5.82	109.2	-5.89
152.7	-.22	182.9	-.73	213.1	-1.90	241.4	-1.45	122.5	-5.12	125.6	-5.39	122.8	-5.52	124.3	-5.59
182.9	-.24	213.4	-.49	243.5	-.71	271.6	-1.09	137.8	-4.76	140.8	-5.08	138.1	-5.17	143.7	-5.19
213.7	-.14	243.8	-.40	274.3	-.72	293.8	-.47	153.5	-4.56	156.1	-4.85	153.9	-4.89	155.4	-4.98
243.8	-.05	274.3	-.47	294.4	-.37			169.1	-4.24	171.3	-4.51	169.5	-4.56	169.7	-4.66
274.3	.10	294.7	-.28					183.8	-3.72	186.5	-4.05	184.4	-4.10	185.4	-4.24
292.6	.15							199.4	-3.14	201.8	-3.49	200.3	-3.59	200.5	-3.70
								214.4	-2.88	217.0	-3.19	215.5	-3.30	219.3	-3.34
								229.8	-2.54	232.3	-2.85	230.7	-2.92	232.0	-3.06
								245.1	-2.21	247.5	-2.54	246.3	-2.63	248.6	-2.71
								260.7	-1.88	262.7	-2.25	261.5	-2.32	263.1	-2.46
								275.7	-1.49	278.0	-1.89	276.8	-1.89	278.8	-2.02
								291.6	-.98	293.2	-1.43	292.6	-1.38	293.3	-1.70
								304.8	-.53			291.7	-1.38		
								314.3	-.53						

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

TEMPERATURES OBTENUES A PARTIR DE SONDAGES AVEC UN THERMISTOR UNIQUE. ON PREVOIT ENTREPRENDRE D'AUTRES SONDAGES DE LA TEMPERATURE DE CE PUIITS.

GULF MOBIL KAMIK D-48
 -WELL SPUDDED 23 12 75
 -DRILLING FOR 102 DAYS
 -TOTAL DEPTH 3235 METRES
 -DRILLING STOPPED 4 4 76
 -WELL ABANDONED 4 4 76

GULF MOBIL KAMIK D-48
 -DEMARRAGE DU PUIITS LE 23 12 75
 -FORAGE PENDANT 102 JOURS
 -PROFONDEUR TOTALE 3235 METRES
 -FORAGE ARRETE LE 4 4 76
 -ABANDON DU PUIITS LE 4 4 76

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EARTH PHYSICS BRANCH NO. 275 PARSONS N-17
 DIRECTION DE LA PHYSIQUE DU GLOBE NO. 275 PARSONS N-17

68 DEGREES 56.9 MINUTES NORTH
 133 DEGREES 34.0 MINUTES WEST

68 DEGRES 56.9 MINUTES NORD
 133 DEGRES 34.0 MINUTES OUEST

ELEVATION 52 METRES

SUMMARY OF DEPTH-TEMPERATURE LOGS

DIAGRAMMES DONNANT LA TEMPERATURE
 EN FONCTION DE LA PROFONDEUR

DATE 21 4 76		DATE 10 7 76		DATE 20 10 76		DATE 12 3 77		DATE 14 8 77		DATE 17 3 78		DATE 15 7 78		DATE 19 7 79	
Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)
30.2	2.38	30.2	-0.37	15.2	-1.78	30.8	-2.55	30.6	-0.74			15.5	-0.96	30.8	-1.31
46.3	4.99	45.7	-0.40	30.2	-0.97	61.3	-0.90	61.3	-0.77	34.1	-1.91	31.1	-1.00	46.3	-1.38
60.7	4.73	61.0	-0.40	45.7	-0.77	91.4	-0.85	92.2	-0.92	64.6	-1.22	61.3	-1.64	61.7	-3.29
91.7	4.93	91.4	.01	61.0	-0.70	121.9	-0.79	122.5	-0.81	95.1	-1.38	92.0	-1.60	77.7	-3.63
121.9	8.36	121.9	1.15	76.2	-0.66	152.7	-0.69	153.2	-1.68	125.6	-0.84	122.5	-0.88	92.8	-2.16
152.7	2.43	152.4	-0.36	91.4	-0.36	183.2	-0.67	183.8	-1.13	156.1	-2.74	153.0	-3.07	108.6	-0.96
182.9	2.70	182.9	-0.24	106.7	-0.64	213.1	-0.52	214.4	-0.78	186.5	-2.07	184.1	-2.38	123.7	-1.03
213.4	2.67	213.4	-0.24	121.9	-0.47	243.8	-0.47	245.1	-0.55	217.0	-1.51	214.6	-1.75	139.1	-3.41
243.8	3.56	243.8	-0.29	152.1	-0.53	274.6	-0.46	276.0	-0.51	247.5	-0.82	245.4	-1.00	154.5	-3.45
274.6	2.70	274.3	-0.30	182.9	-0.39	304.8	-0.37	306.6	-0.38	278.0	-0.57	275.5	-0.67	170.3	-3.09
304.8	3.38	304.8	-0.26	213.7	-0.35	335.3	-0.18	337.3	-0.19	308.5	-0.43	306.3	-0.41	186.3	-2.75
335.6	4.00	335.2	.21	243.8	-0.40	350.5	.59	367.6	1.04	338.9	-0.21	337.1	-0.21	200.8	-2.56
350.5	4.91	365.5	3.39	274.3	-0.38	365.8	1.41	398.2	2.16	369.4	.73	367.9	.91	216.2	-2.19
357.8	6.49	396.2	4.48	304.5	-0.35	396.2	2.35	428.9	3.12	399.9	1.82	398.4	1.92	232.9	-1.76
366.1	8.00	426.7	5.36	320.0	-0.28	426.7	3.41	459.5	3.95	430.4	2.88	429.2	2.82	247.4	-1.54
396.2	9.24	457.2	6.35	335.3	-0.13	457.5	4.24	490.1	4.82	460.9	3.71	459.6	3.83	262.5	-1.19
426.7	10.04	487.7	7.04	350.5	.84	488.0	5.10			491.3	4.58	490.1	4.61	277.9	-0.96
457.2	11.03	518.2	7.77	365.8	1.94	518.2	5.93			521.8	5.40	520.6	5.43	293.9	-0.67
487.7	11.79	548.6	8.57	381.0	2.60							551.4	6.32	309.7	-0.43
518.5	12.50	579.1	9.18	396.2	3.12							581.9	6.99	324.5	-0.27
548.6	12.87	609.6	10.14	426.7	4.08							612.6	8.01	339.9	-0.21
579.1	13.41			457.2	4.92							643.1	9.18	355.3	.18
609.6	14.12			487.7	5.73							674.2	10.06	371.1	.78
				518.2	6.50							704.7	10.78	386.5	1.34
												735.2	11.47	401.9	1.78
												744.3	11.61	417.0	2.12
														433.1	2.70
														447.9	2.95
														463.0	3.67
														479.3	4.06
														494.1	4.46
														509.6	4.90
														525.0	5.30
														555.8	6.20
														586.1	6.87
														617.2	7.90
														649.0	9.11
														679.2	9.95

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

TEMPERATURES OBTENUES A PARTIR DE
 SONDAGES AVEC UN THERMISTOR UNIQUE.
 ON PREVOIT ENTREPRENDRE D'AUTRES
 SONDAGES DE LA TEMPERATURE DE CE PUIITS.

GULF MOBIL PARSONS N-17
 -WELL SPUDDED 18 12 75
 -DRILLING FOR 116 DAYS
 -TOTAL DEPTH 3295 METRES
 -DRILLING STOPPED 13 4 76
 -WELL ABANDONED 13 4 76

GULF MOBIL PARSONS N-17
 -DEMARRAGE DU PUIITS LE 18 12 75
 -FORAGE PENDANT 116 JOURS
 -PROFONDEUR TOTALE 3295 METRES
 -FORAGE ARRETE LE 13 4 76
 -ABANDON DU PUIITS LE 13 4 76

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EARTH PHYSICS BRANCH NO. 277 SIKU A-12
 DIRECTION DE LA PHYSIQUE DU GLOBE NO.

69 DEGREES 1.0 MINUTES NORTH 69 DEGRES 1.0 MINUTES NORD
 133 DEGREES 32.5 MINUTES WEST 133 DEGRES 32.5 MINUTES OUEST

ELEVATION 56 METRES

SUMMARY OF DEPTH-TEMPERATURE LOGS

DIAGRAPHIES DONNANT LA TEMPERATURE EN FONCTION DE LA PROFONDEUR

DATE 21 10 76		DATE 14 3 77		DATE 14 8 77		DATE 16 7 78		DATE 19 7 79	
Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)
15.2	-2.27	61.0	-2.49	30.6	-.89	15.2	-4.25	30.5	-4.69
30.2	-.39	91.4	-1.09	61.0	-3.71	30.8	-2.67	62.0	-4.31
60.7	-.31	121.6	-.48	91.9	-2.98	61.6	-4.16	93.5	-3.88
91.1	-.28	152.4	-2.14	122.2	-2.65	91.7	-3.74	124.6	-3.57
121.9	-.38	182.9	-2.25	152.9	-2.94	122.5	-3.43	154.5	-3.36
152.4	-.43	213.4	-.99	183.5	-2.36	153.3	-3.29	185.7	-2.99
182.9	-.51	243.8	-.55	214.1	-1.56	183.8	-2.87	217.1	-2.38
213.4	-.60	274.3	-.42	244.8	-.80	214.3	-2.20	247.7	-1.62
243.5	-.41	305.1	-.47	275.4	-.46	245.1	-1.43	278.2	-1.19
274.0	-.30	335.0	-.33	306.0	-.50	275.2	-.94	310.0	-.67
304.8	-.34	350.5	-.19	336.7	-.31	306.6	-.62	339.3	-.30
335.0	-.29	365.5	1.19	367.0	.83	336.8	-.33	355.0	-.21
350.5	.13	395.9	2.16	397.9	1.82	367.6	.51	370.8	.42
358.1	.66	426.4	2.87	428.5	2.64	398.1	1.59	402.9	1.51
366.1	2.30			459.2	3.37	428.5	2.42	432.1	2.21
381.0	2.76			478.5	3.83	459.3	3.14		
396.2	3.28					490.1	3.97		
426.7	3.88					520.6	4.78		
						551.1	5.68		

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

TEMPERATURES OBTENUES A PARTIR DE SONDAGES AVEC UN THERMISTOR UNIQUE. ON PREVOIT ENTREPRENDRE D'AUTRES SONDAGES DE LA TEMPERATURE DE CE PUIIS.

GULF MOBIL SIKU A-12
 -WELL SPUDDED 14 4 76
 -DRILLING FOR 44 DAYS
 -TOTAL DEPTH 3288 METRES
 -DRILLING STOPPED 28 5 76

GULF MOBIL SIKU A-12
 -DEMARRAGE DU PUIIS LE 14 4 76
 -FORAGE PENDANT 44 JOURS
 -PROFONDEUR TOTALE 3288 METRES
 -FORAGE ARRETE LE 28 5 76

EARTH PHYSICS BRANCH NO. 279 PARSONS L-37
 DIRECTION DE LA PHYSIQUE DU GLOBE NO.

68 DEGREES 56.7 MINUTES NORTH 68 DEGRES 56.7 MINUTES NORD
 133 DEGREES 39.9 MINUTES WEST 133 DEGRES 39.9 MINUTES OUEST

ELEVATION 38 METRES

SUMMARY OF DEPTH-TEMPERATURE LOGS DIAGRAPHIES DONNANT LA TEMPERATURE
 EN FONCTION DE LA PROFONDEUR

DATE 15 4 77		DATE 14 4 78		DATE 15 7 78		DATE 19 7 79	
Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)
15.2	-2.50	15.2	-7.59	15.5	-5.96	33.0	-5.84
30.5	-5.58	30.5	-6.17	30.5	-5.52	47.2	-5.13
61.0	.18	45.4	-4.72	46.3	-4.68	62.0	-4.47
91.4	.75	61.3	-3.55	61.6	-3.79	77.7	-3.74
121.9	.20	75.9	-2.61	77.1	-3.00	92.8	-3.23
152.4	1.02	91.4	-1.63	92.4	-2.19	108.6	-2.90
182.9	2.03	106.7	-1.74	107.6	-2.26	124.0	-2.61
213.4	.80	122.2	-1.85	123.1	-2.11	141.3	-2.25
243.8	1.52	137.2	-1.44	138.7	-1.76	156.7	-1.90
274.3	1.16	152.4	-1.05	153.6	-1.36	170.3	-1.65
304.8	1.79	167.6	-.61	169.5	-.88	185.4	-1.34
320.0	4.20	182.9	-.62	184.4	-.74	201.4	-1.07
337.4	5.82	198.4	-.43	200.3	-.52	217.8	-.78
		213.7	-.34	215.5	-.38	231.6	-.65
		228.9	-.32	231.0	-.36	247.4	-.75
		243.8	-.45	246.3	-.48	263.1	-.56
		259.1	-.38	261.5	-.41	277.9	-.27
		274.3	-.28	277.1	-.30	293.6	-.27
		289.6	-.29	292.6	-.30		
		304.8	-.28				

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

TEMPERATURES OBTENUES A PARTIR DE SONDAGES AVEC UN THERMISTOR UNIQUE. ON PREVOIT ENTREPRENDRE D'AUTRES SONDAGES DE LA TEMPERATURE DE CE Puits.

GULF MOBIL PARSONS L-37
 -WELL SPUDDED 26 12 76
 -DRILLING FOR 99 DAYS
 -TOTAL DEPTH 3961 METRES
 -WELL ABANDONED 4 4 77

GULF MOBIL PARSONS L-37
 -DEHARRAGE DU Puits LE 26 12 76
 -FORAGE PENDANT 99 JOURS
 -PROFONDEUR TOTALE 3961 METRES
 -ABANDON DU Puits LE 4 4 77

EARTH PHYSICS BRANCH NO. 284 SIKU E-21
 DIRECTION DE LA PHYSIQUE DU GLOBE NO.

69 DEGREES .5 MINUTES NORTH 69 DEGRES .5 MINUTES NORD
 133 DEGREES 36.9 MINUTES WEST 133 DEGRES 36.9 MINUTES OUEST

ELEVATION 55 METRES

SUMMARY OF DEPTH-TEMPERATURE LOGS

DIAGRAMMES DONNANT LA TEMPERATURE
 EN FONCTION DE LA PROFONDEUR

DATE 14 4 78		DATE 16 7 78		DATE 10 7 79	
Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)
30.8	-0.92	15.5	-3.98	31.8	-4.85
61.0	-3.91	30.5	-2.50	62.6	-4.51
91.4	-3.90	61.3	-4.28	94.1	-4.51
121.9	-3.50	92.0	-4.17	123.7	-4.28
152.4	-3.61	122.2	-3.89	156.7	-4.02
182.9	-3.05	153.0	-3.76	186.0	-3.62
213.7	-2.27	183.8	-3.31	215.9	-2.95
243.8	-1.50	214.6	-2.56	247.7	-2.36
274.3	-0.62	245.1	-1.90	278.2	-2.05
305.1	-0.68	275.8	-1.08	310.0	-1.40
335.3	-0.40	306.3	-1.05	339.6	-0.79
350.5	-0.32	336.8	-0.42	370.8	-0.27
365.8	-0.31	367.6	-0.28	403.8	.53
381.0	-0.16	398.4	.63	432.5	1.21
396.2	.73	429.2	1.41		
411.5	1.13	430.1	1.47		
426.7	1.44				

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

TEMPERATURES OBTENUES A PARTIR DE
 SONDAGES AVEC UN THERMISTOR UNIQUE.
 ON PREVOIT ENTREPRENDRE D'AUTRES
 SONDAGES DE LA TEMPERATURE DE CE PUIIS.

GULF MOBIL SIKU E-21
 -WELL SPUNNED 17 4 77
 -DRILLING FOR 65 DAYS
 -TOTAL DEPTH 3428 METRES
 -WELL ABANDONED 21 6 77

GULF MOBIL SIKU E-21
 -DEMARRAGE DU PUIIS LE 17 4 77
 -FORAGE PENDANT 65 JOURS
 -PROFONDEUR TOTALE 3428 METRES
 -ABANDON DU PUIIS LE 21 6 77

EARTH PHYSICS BRANCH NO. 285 PARSONS D-20
 DIRECTION DE LA PHYSIQUE DU GLORE NO.

68 DEGREES 59.2 MINUTES NORTH 68 DEGRES 59.2 MINUTES NORD
 133 DEGREES 34.4 MINUTES WEST 133 DEGRES 34.4 MINUTES OUEST

ELEVATION 62 METRES

SUMMARY OF DEPTH-TEMPERATURE LOGS

DIAGRAMMES DONNANT LA TEMPERATURE
 EN FONCTION DE LA PROFONDEUR

DATE 14 4 78		DATE 16 7 78		DATE 10 7 79	
Z (M)	T (C)	Z (M)	T (C)	Z (M)	T (C)
30.2	-0.90	15.2	-2.62	30.8	-0.76
61.0	-4.07	30.2	-0.78	46.6	-4.93
91.7	-3.33	61.6	-4.43	62.0	-5.24
121.9	-2.56	91.4	-3.84	77.4	-4.97
152.4	-2.65	122.5	-3.26	92.8	-4.68
183.2	-1.67	152.7	-3.07	108.3	-4.32
213.7	-0.67	184.1	-2.37	124.0	-4.22
244.1	-0.45	214.3	-0.86	139.4	-4.29
274.3	-0.46	245.1	-0.50	157.0	-3.71
305.1	-0.47	275.5	-0.48	170.0	-3.30
335.3	-0.43	306.0	-0.47	186.0	-3.14
350.8	-0.16	336.8	-0.44	202.4	-2.62
365.5	1.30	367.9	1.25	216.8	-2.25
381.0	1.84	398.4	2.18	231.3	-1.49
396.2	2.28	429.2	2.98	247.4	-0.89
426.7	3.10	459.6	3.84	263.4	-0.61
457.5	3.91	490.1	4.77	278.5	-0.58
487.7	4.85	520.6	5.58	293.9	-0.56
518.5	5.67	551.1	6.46	308.8	-0.52
		581.9	7.33	324.5	-0.53
		612.0	8.18	339.9	-0.44
		643.4	9.04	355.0	0.13
		673.6	9.83	370.1	1.04
		704.4	10.47	387.1	1.50
		723.0	10.66	401.0	1.88
				419.2	2.41
				432.5	2.74
				447.6	3.12
				463.3	3.57
				479.0	4.11
				494.4	4.54
				509.3	4.91
				526.5	5.40
				542.9	5.79
				555.5	6.25
				570.6	6.68
				586.7	7.11
				601.8	7.54
				617.5	7.97
				647.8	8.82
				678.6	9.63

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

TEMPERATURES OBTENUES A PARTIR DE
 SONDAGES AVEC UN THERMISTOR UNIQUE.
 ON PREVOIT ENTREPRENDRE D'AUTRES
 SONDAGES DE LA TEMPERATURE DE CE PUIYS.

GULF MOBIL PARSONS D-20
 -WELL SHOULDED 21 4 76
 -DRILLING FOR 17 DAYS
 -TOTAL DEPTH 4140 METRES
 -DRILLING STOPPED 14 10 76
 -WELL ABANDONED 22 11 76

GULF MOBIL PARSONS D-20
 -DEMARRAGE DU PUIYS LE 21 4 76
 -FORAGE PENDANT 17 JOURS
 -PROFONDEUR TOTALE 4140 METRES
 -FORAGE ARRETE LE 14 10 76
 -ABANDON DU PUIYS LE 22 11 76

DIRECTION DE LA PHYSIQUE DU GLOBE NO.

76 DEGREES 21.5 MINUTES NORTH
103 DEGREES 58.2 MINUTES WEST76 DEGRES 21.5 MINUTES NORD
103 DEGRES 58.2 MINUTES OUEST

ELEVATION 43 METRES

SUMMARY OF DEPTH-TEMPERATURE LOGS

DIAGRAMMES DONNANT LA TEMPERATURE
EN FONCTION DE LA PROFONDEUR

DATE 25 5 78 DATE 27 5 79

Z (M) T (C) Z (M) T (C)

14.0	-11.8A	32.8	-13.15
44.5	-14.62	46.4	-14.72
75.0	-14.10	62.1	-14.50
105.5	-13.45	77.3	-14.20
135.9	-12.49	93.4	-13.85
166.4	-11.61	108.5	-13.45
196.9	-10.67	124.0	-12.87
227.4	-9.84	139.1	-12.46
257.9	-8.89	154.9	-12.16
288.3	-8.23	170.3	-11.62
318.8	-7.41	185.5	-11.10
349.3	-6.56	200.9	-10.54
379.8	-5.89	217.0	-10.08
410.3	-5.24	231.8	-9.73
440.7	-4.64	247.3	-9.20
471.2	-4.01	265.8	-8.80
501.7	-3.40	281.6	-8.37
532.2	-2.62	294.0	-8.11
563.3	-1.84	309.4	-7.79
593.8	-1.14	324.9	-7.28
624.2	-0.40	341.0	-6.91
655.3	.45	355.5	-6.41
685.8	1.33	373.1	-6.02
716.6	1.94	386.7	-5.76
747.1	2.47	402.8	-5.47
777.5	2.99	417.6	-5.20
808.0	3.65	432.8	-4.93

448.5	-4.65
464.3	-4.35
479.5	-4.04
494.6	-3.86
510.4	-3.42
525.5	-3.03
541.0	-2.70
557.4	-2.30
571.9	-1.92
588.6	-1.55

TEMPERATURE RESULTS ARE OBTAINED
FROM SINGLE THERMISTOR LOGS.
FURTHER TEMPERATURE LOGS
ARE EXPECTED FOR THIS HOLE.TEMPERATURES OBTENUES A PARTIR DE
SONDAGES AVEC UN THERMISTOR UNIQUE.
ON PREVOIT ENTREPRENDRE D'AUTRES
SONDAGES DE LA TEMPERATURE DE CE Puits.

PANARCTIC BENT HORN N-72A

-WELL SHUDDED 24 8 75
-DRILLING FOR 58 DAYS
-TOTAL DEPTH 3270 METRES
-DRILLING STOPPED 21 10 75
-WELL ABANDONED 19 12 75

PANARCTIC BENT HORN N-72A

-DEMARRAGE DU Puits LE 24 8 75
-FORAGE PENDANT 58 JOURS
-PROFONDEUR TOTALE 3270 METRES
-FORAGE ARRETE LE 21 10 75
-ABANDON DU Puits LE 19 12 75

21

EARTH PHYSICS BRANCH NO. 287 TAGLU H-54
 DIRECTION DE LA PHYSIQUE DU GLOBE NO.

69 DEGREES 23.3 MINUTES NORTH
 134 DEGREES 58.1 MINUTES WEST

69 DEGRES 23.3 MINUTES NORD
 134 DEGRES 58.1 MINUTES OUEST

ELEVATION 1 METRES

SUMMARY OF DEPTH-TEMPERATURE LOGS

DIAGRAPHIES DONNANT LA TEMPERATURE
 EN FONCTION DE LA PROFONDEUR

DATE 26 7 78		DATE 10 7 79	
Z (M)	T (C)	Z (M)	T (C)
15.2	-5.67	31.2	-4.25
30.2	-3.98	46.9	-3.79
60.7	-2.93	61.7	-2.78
91.4	-1.26	77.1	-1.98
121.9	-.58	92.5	-1.43
152.1	-.40	108.3	-.92
182.6	-.38	123.4	-.50
213.1	-.49	139.1	-.54
243.5	-.47	154.8	-.40
274.0	-.48	170.0	-.42
304.8	-.58	185.1	-.38
335.0	-.54	216.2	-.55
365.8	-.48	247.1	-.56
395.9	-.59	278.5	-.55
426.7	-.96	308.8	-.65
457.2	-.64	339.6	-.64
487.7	-.55	370.1	-.58
517.9	.48	401.3	-.75
548.6	1.08	432.5	-.58
579.1	1.84	463.3	-.70
609.6	2.61	495.1	-.57
639.8	3.37	524.7	.29
670.6	4.19	555.2	.99
700.7	5.27	571.0	1.30
722.4	5.82	586.4	1.68
		601.5	2.08
		616.9	2.44
		632.6	2.87
		651.5	3.28
		672.1	3.71
		708.5	4.04
		724.6	4.65
		739.7	5.05
		755.1	5.52
		770.5	5.61

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

TEMPERATURES OBTENUES A PARTIR DE
 SONDAGES AVEC UN THERMISTOR UNIQUE.
 ON PREVOIT ENTREPRENDRE D'AUTRES
 SONDAGES DE LA TEMPERATURE DE CE PUIIS.

IOE TAGLU H-54

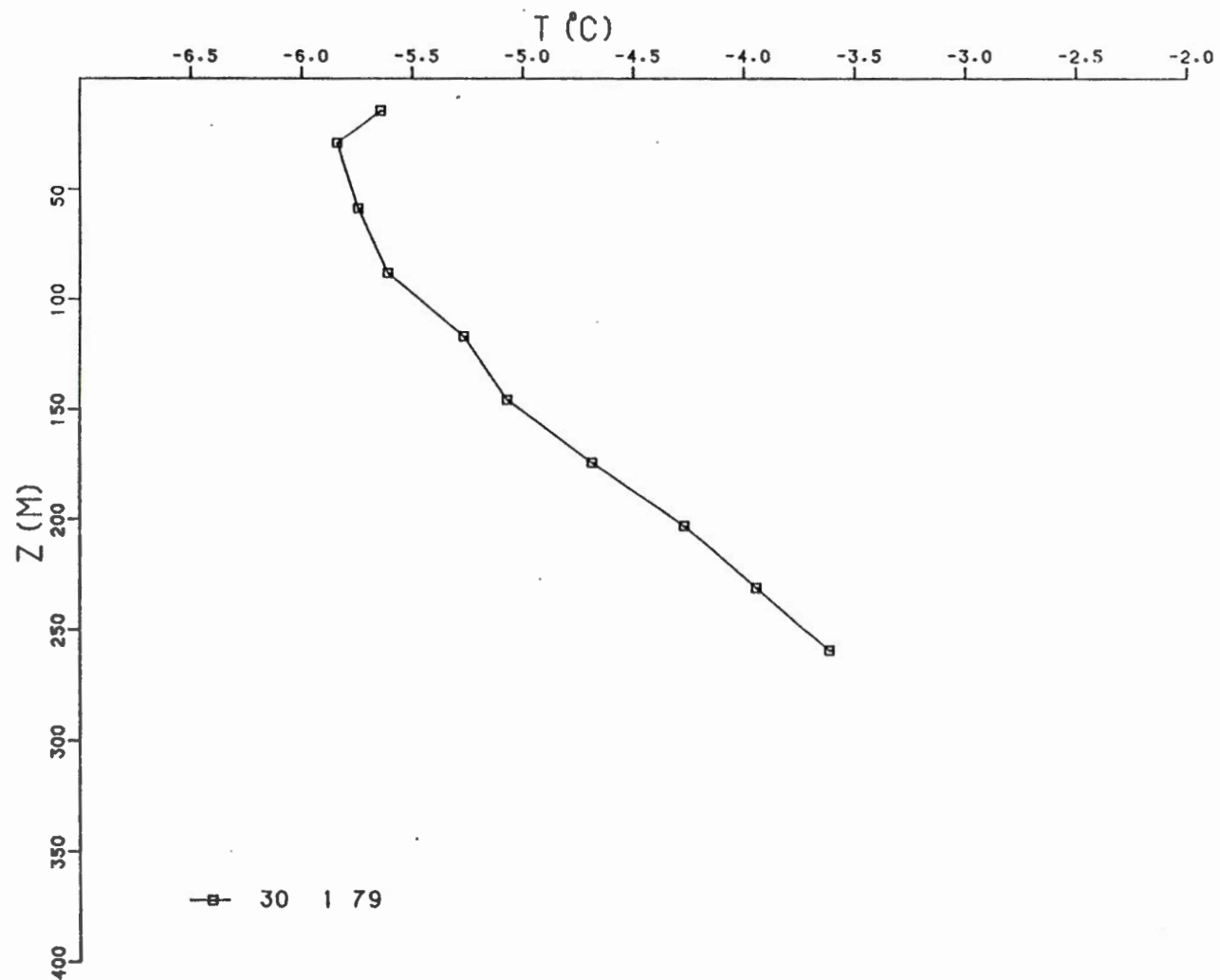
-WELL SPUNDED 2 12 76
 -DRILLING FOR 94 DAYS
 -TOTAL DEPTH 2800 METRES
 -DRILLING STOPPED 6 3 77
 -WELL ABANDONED 5 4 77

IOE TAGLU H-54

-DEMARRAGE DU PUIIS LE 2 12 76
 -FORAGE PENDANT 94 JOURS
 -PROFONDEUR TOTALE 2800 METRES
 -FORAGE ARRETE LE 6 3 77
 -ABANDON DU PUIIS LE 5 4 77

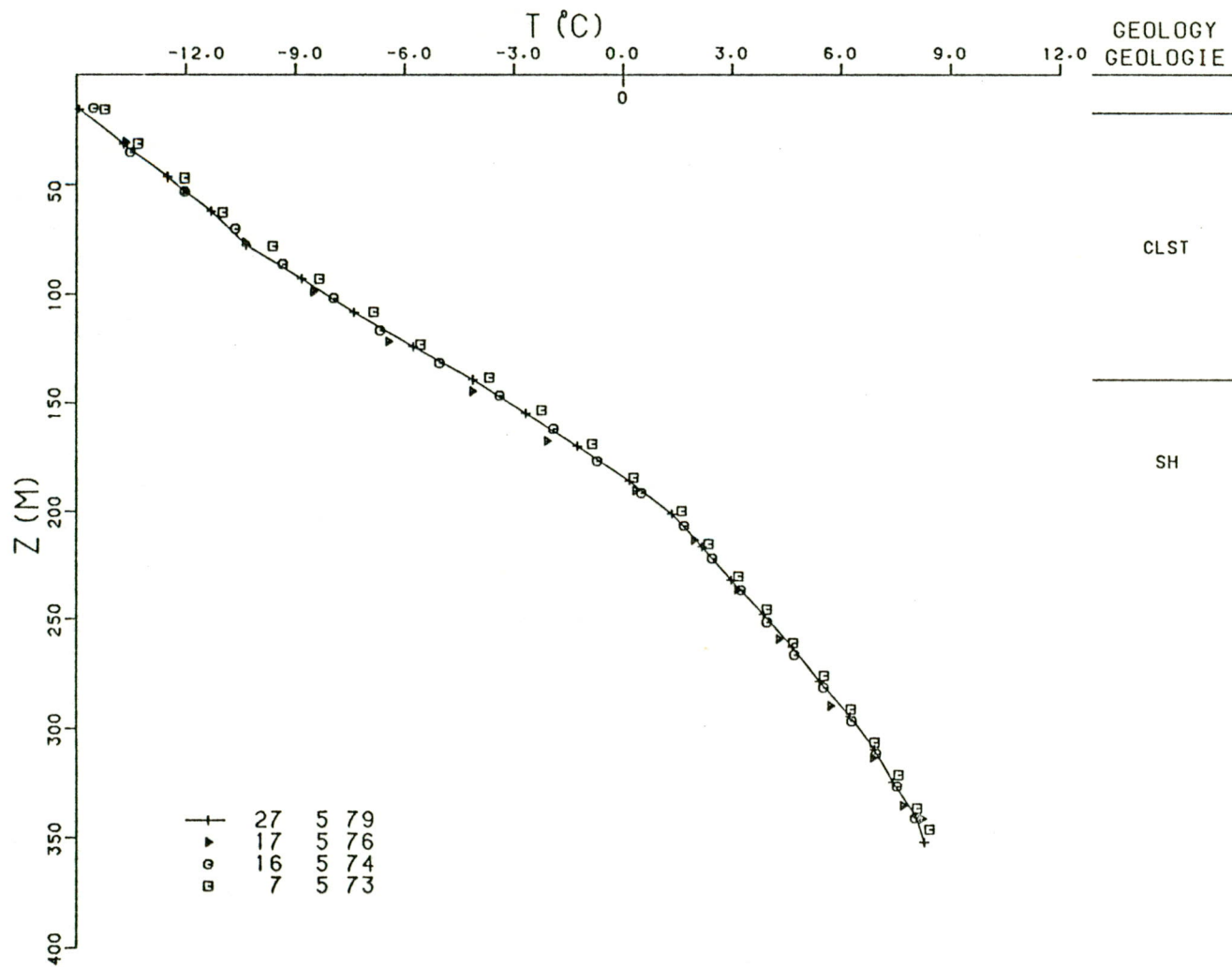
2. Graphs of Temperature versus Depth

114 ASBESTOS HILL -8
61° 49.8' N 73° 57.1' W/O

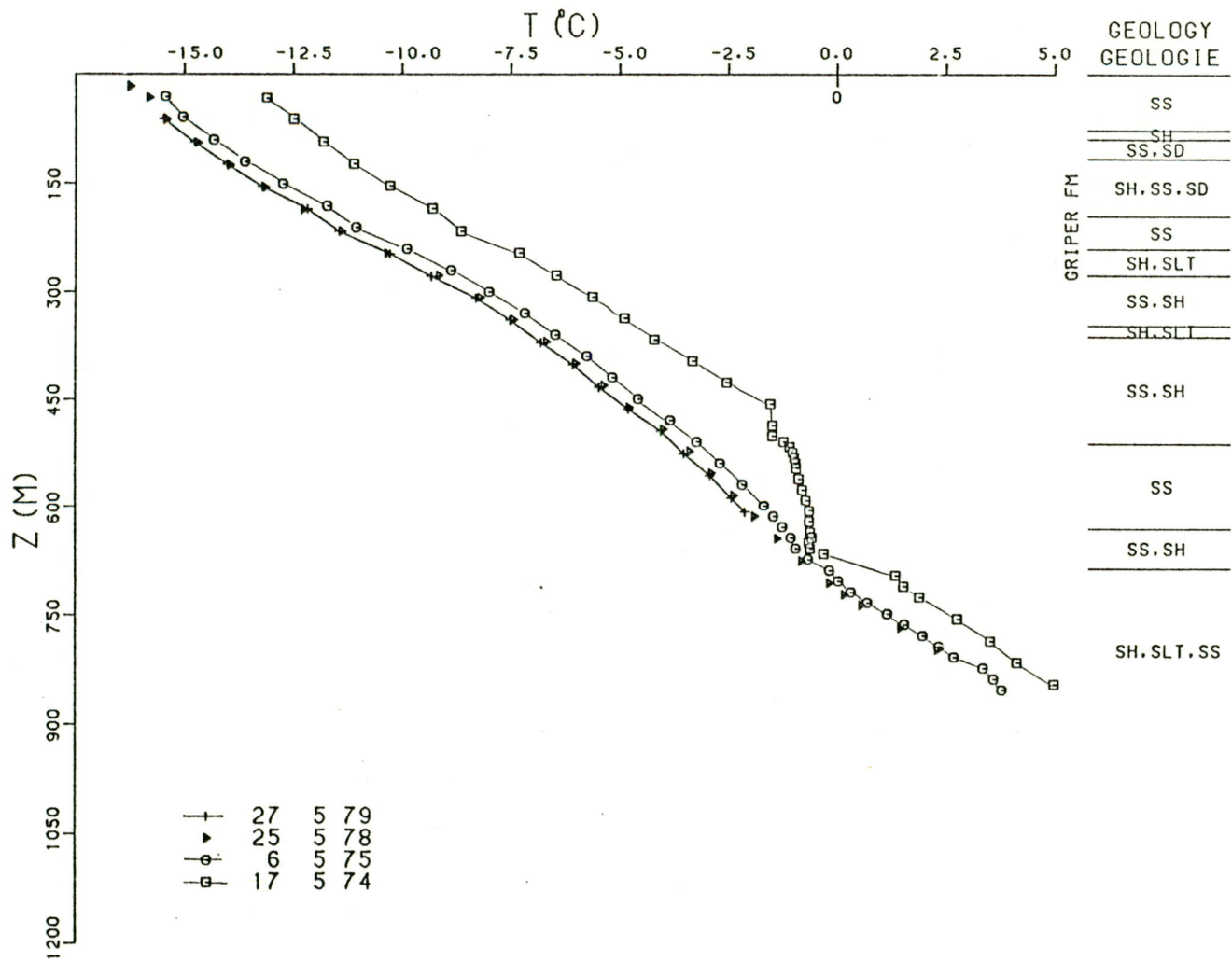


24

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



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



GEOLOGY
 GEOLOGIE

SS

SH

SS, SD

GRIPER FM

SH, SS, SD

SS

SH, SLT

SS, SH

SH, SLT

SS, SH

SS

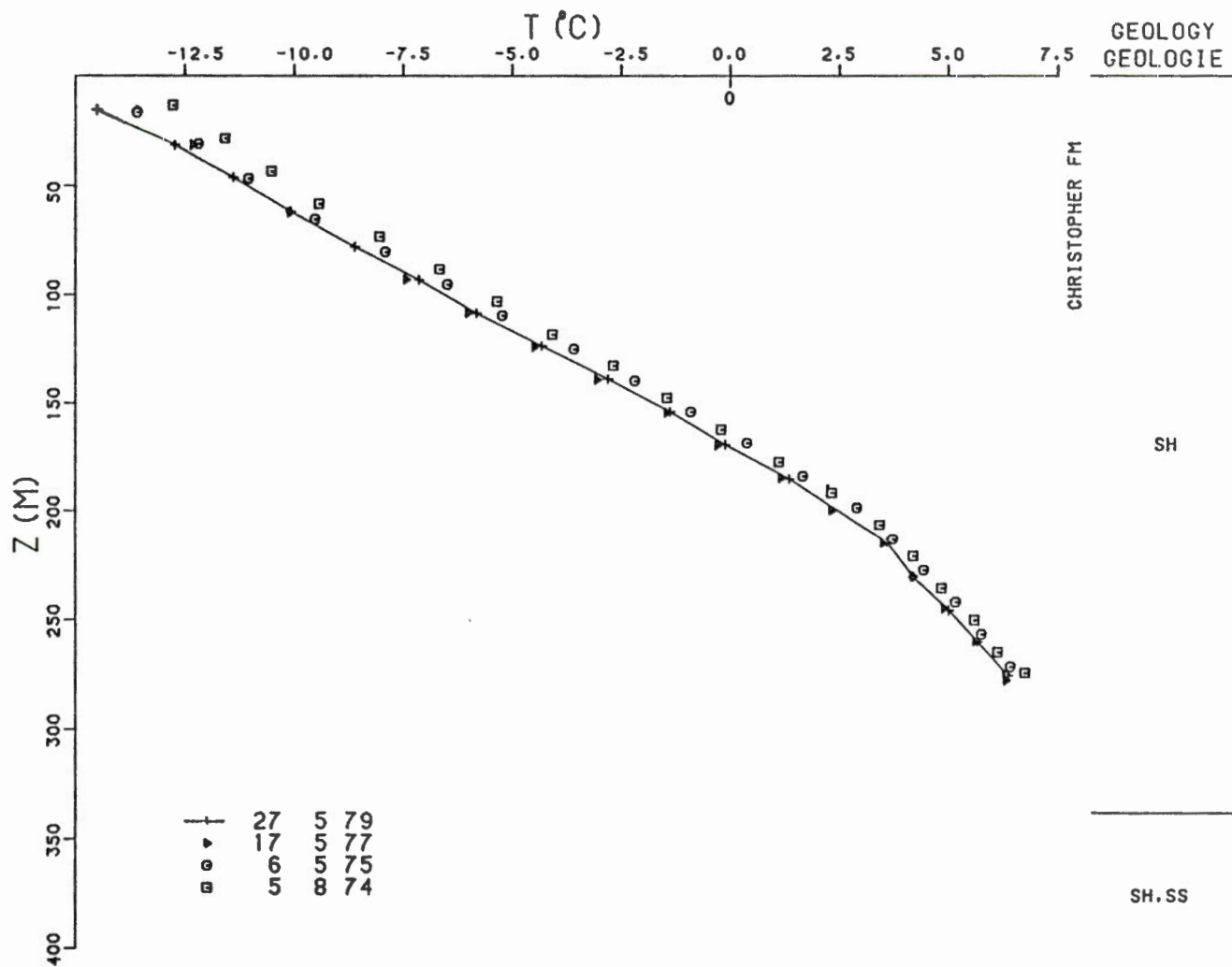
SS, SH

SH, SLT, SS

26

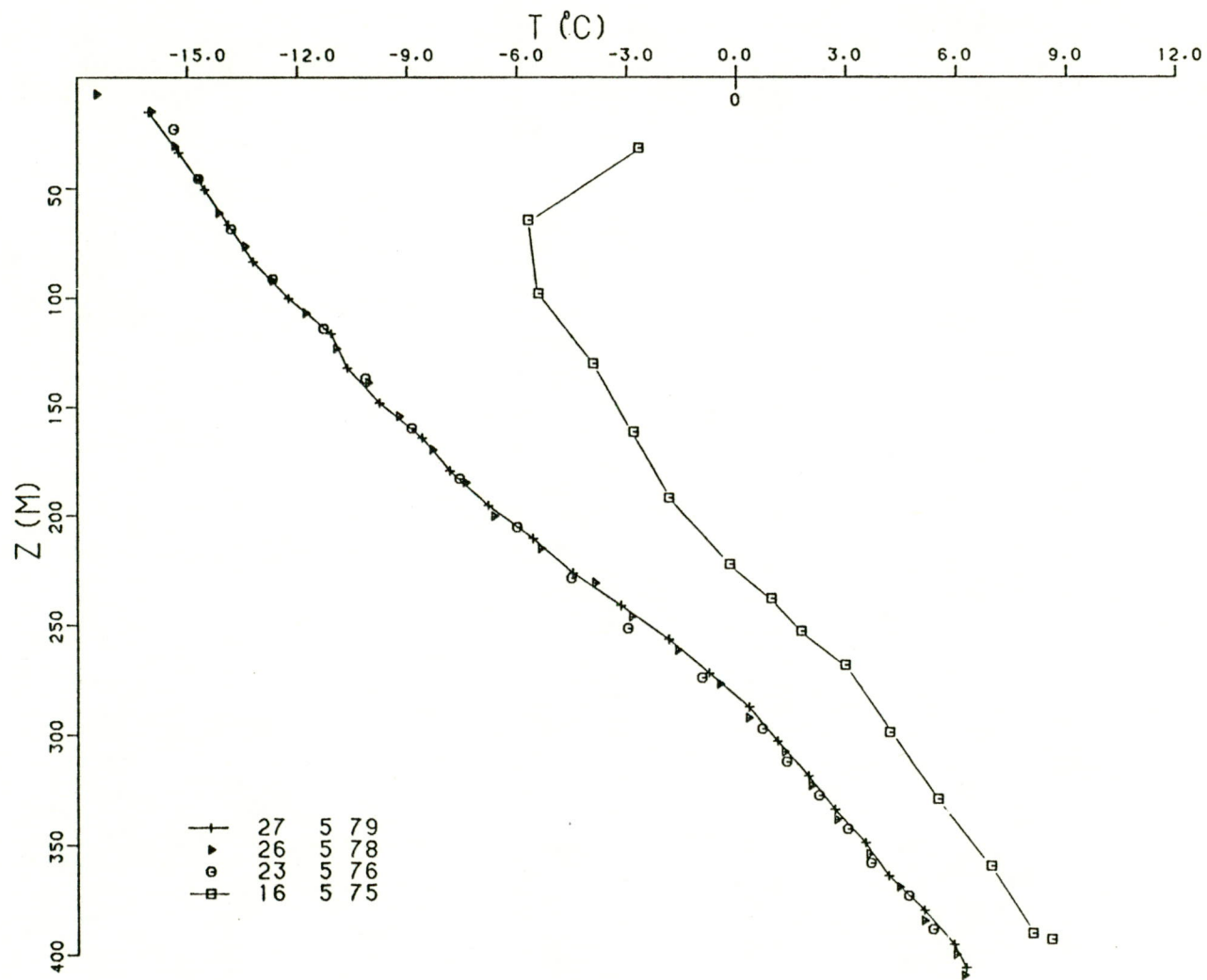
199 DRAKE E-78

76° 27.3' N 108° 29.4' W/O

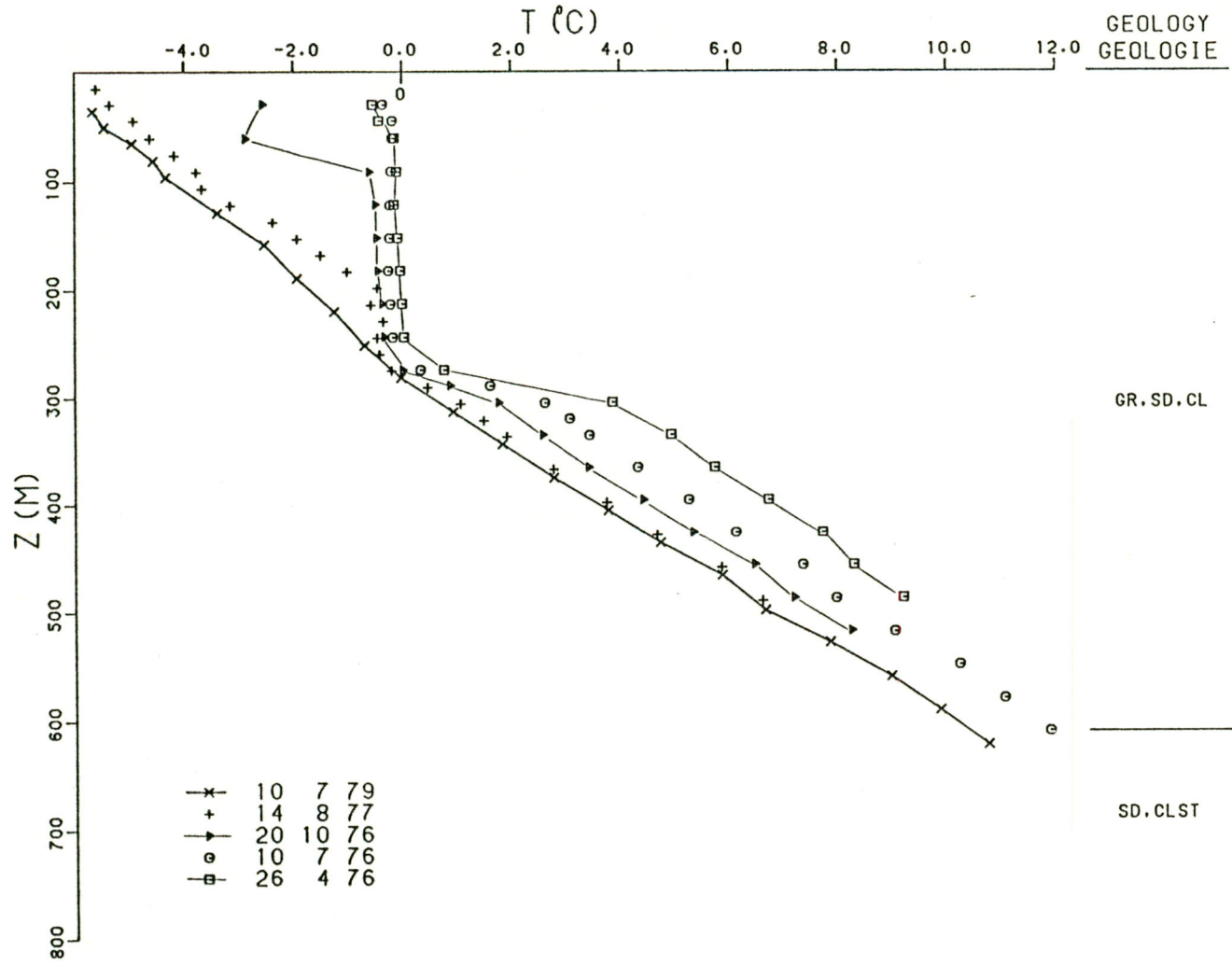


27

259 DRAKE D-73
 76° 22.1' N 108° 29.5' W/O



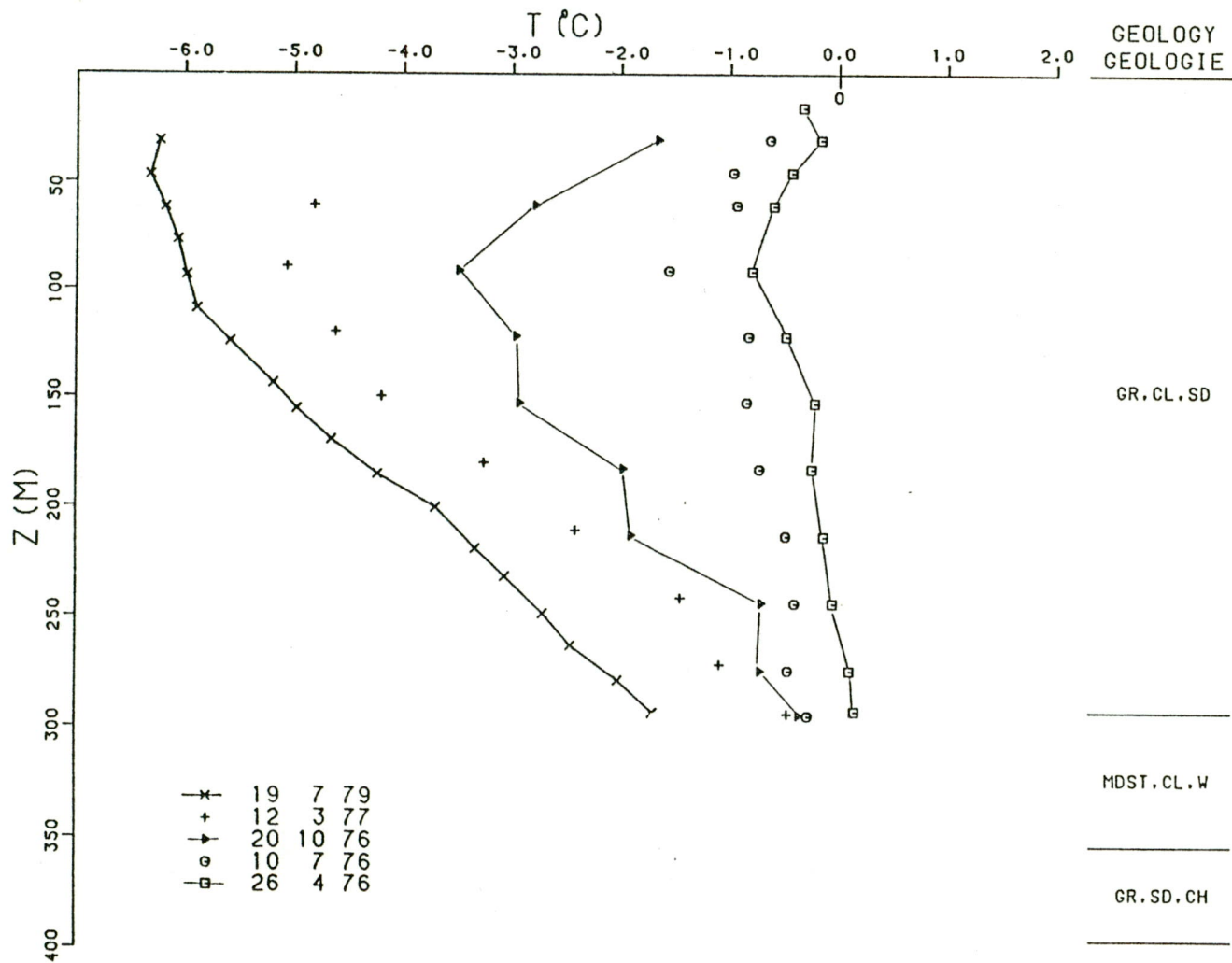
272 PARSONS L-43
 68° 52.6' N 133° 41.9' W/O



29

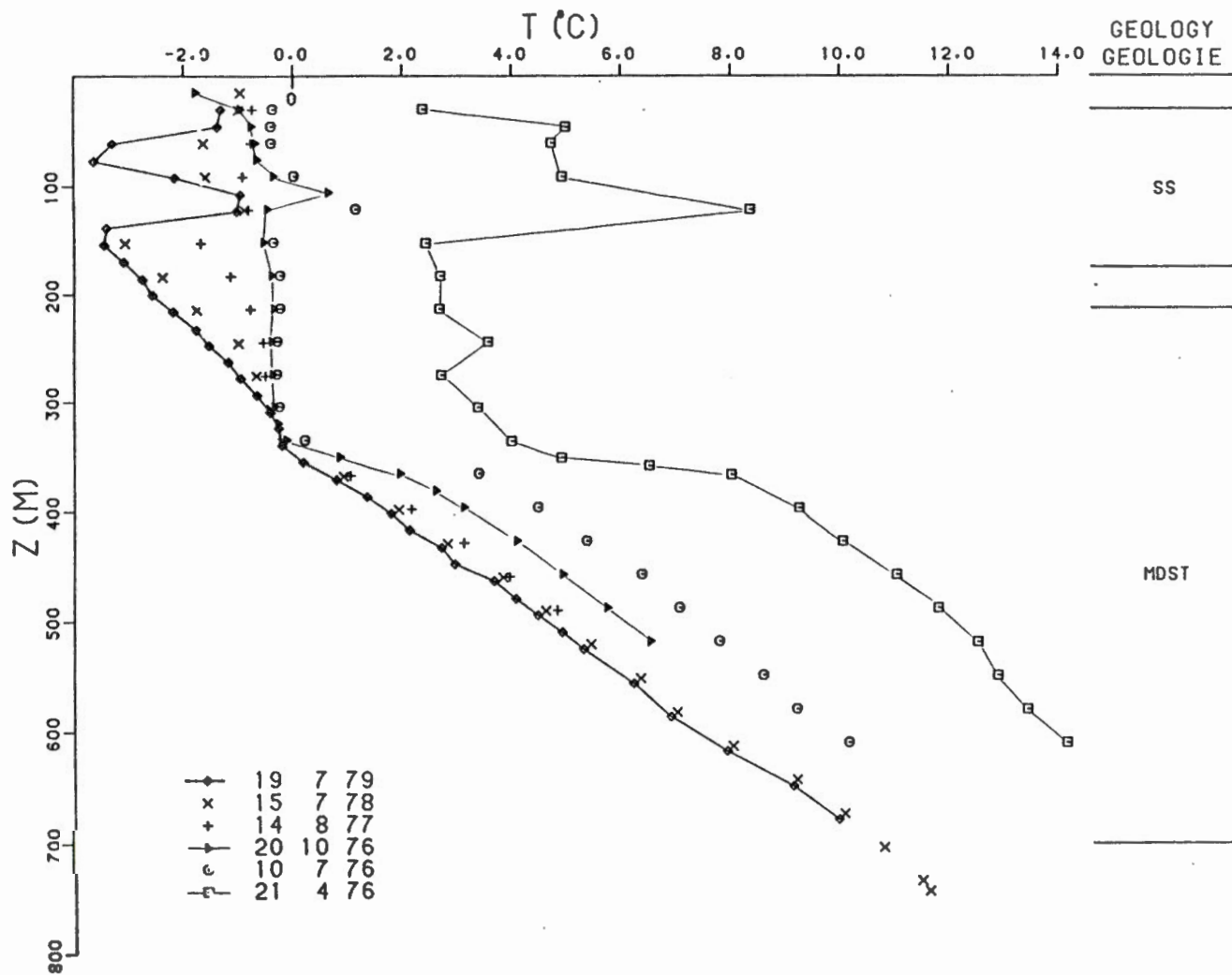
273 KAMIK D-48

68° 57.2' N 133° 27.5' W/O

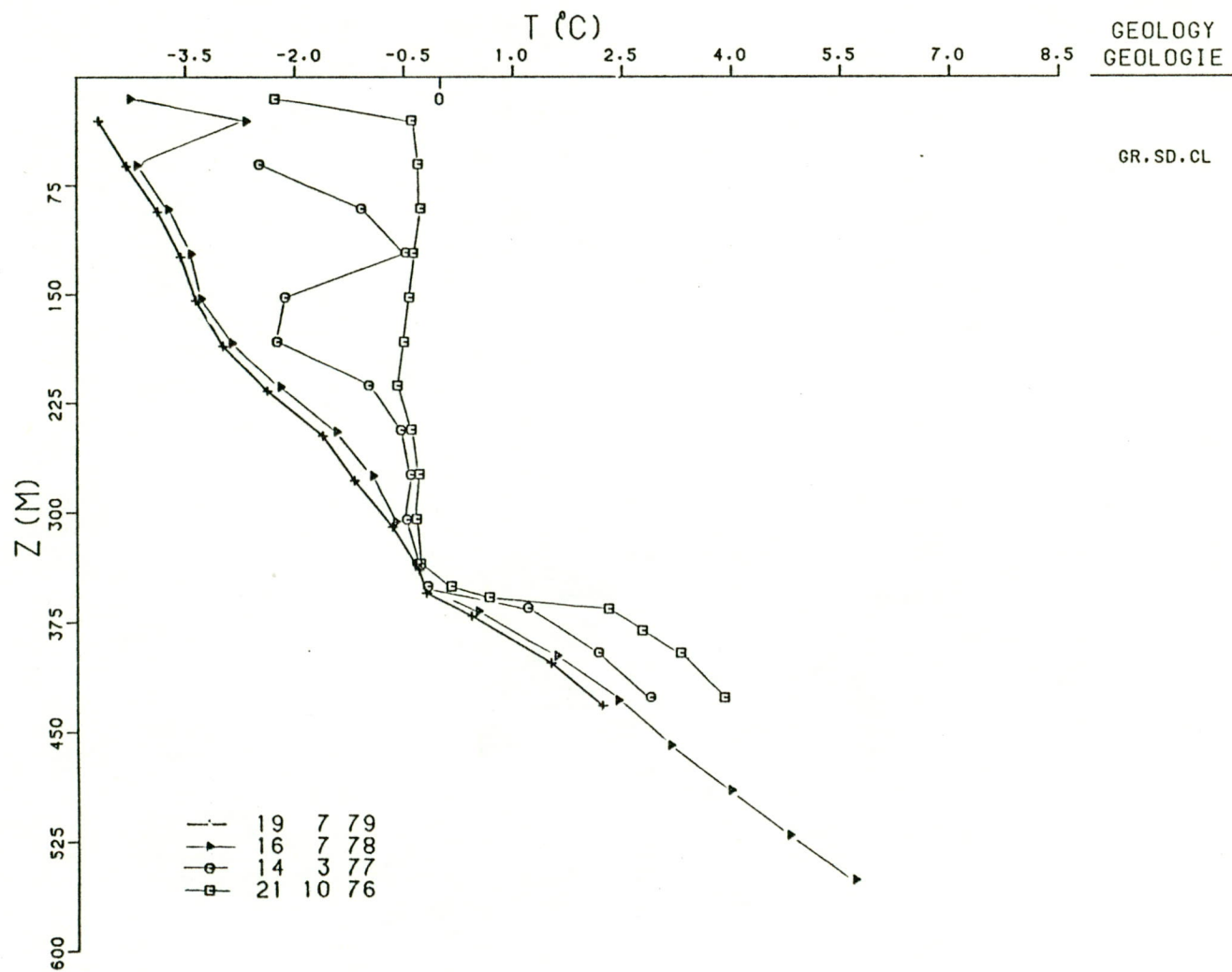


30

275 PARSONS N-17
 68° 56.9' N 133° 34.0' W/O

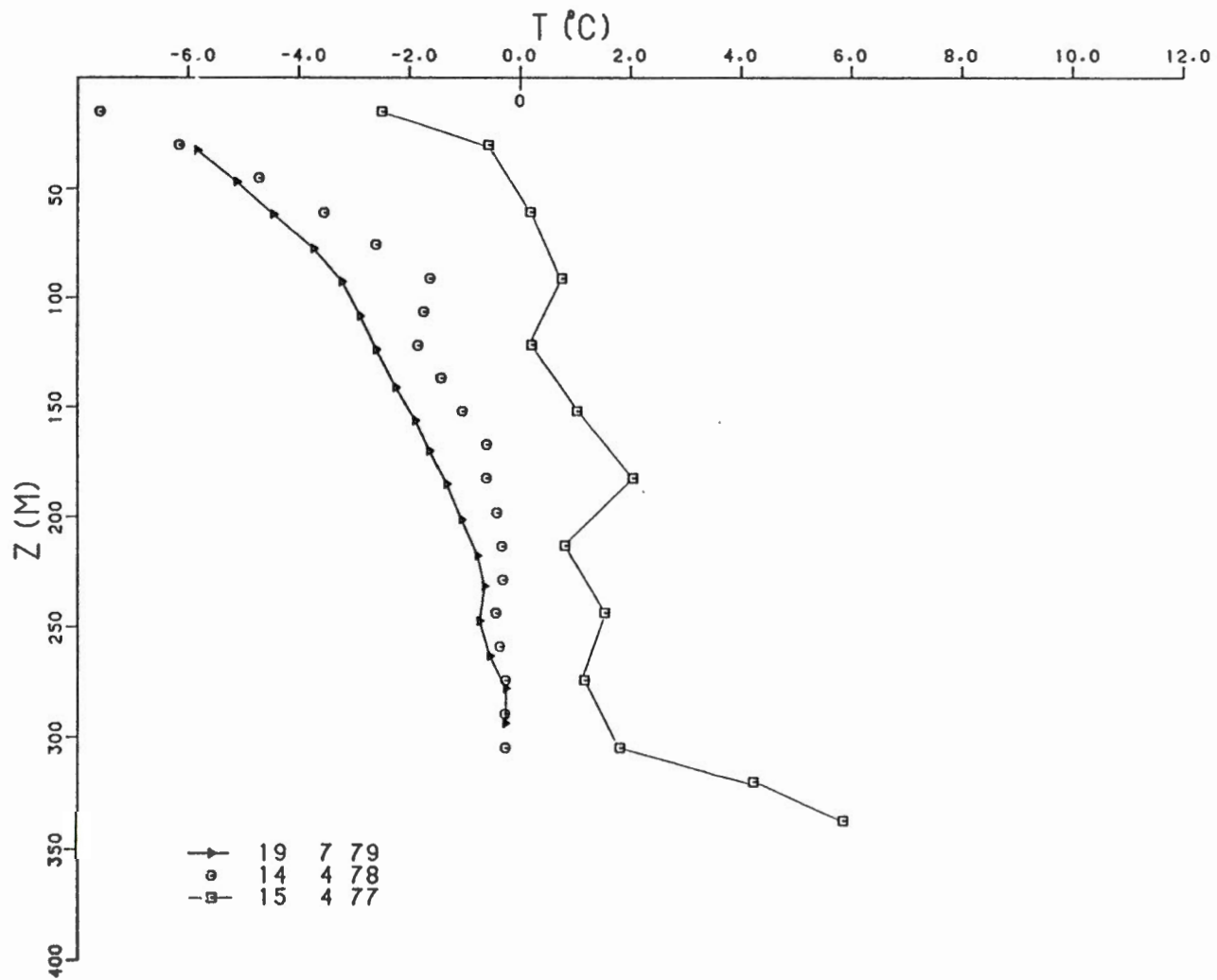


277 SIKU A-12
 69° 1.0' N 133° 32.5' W/O



32

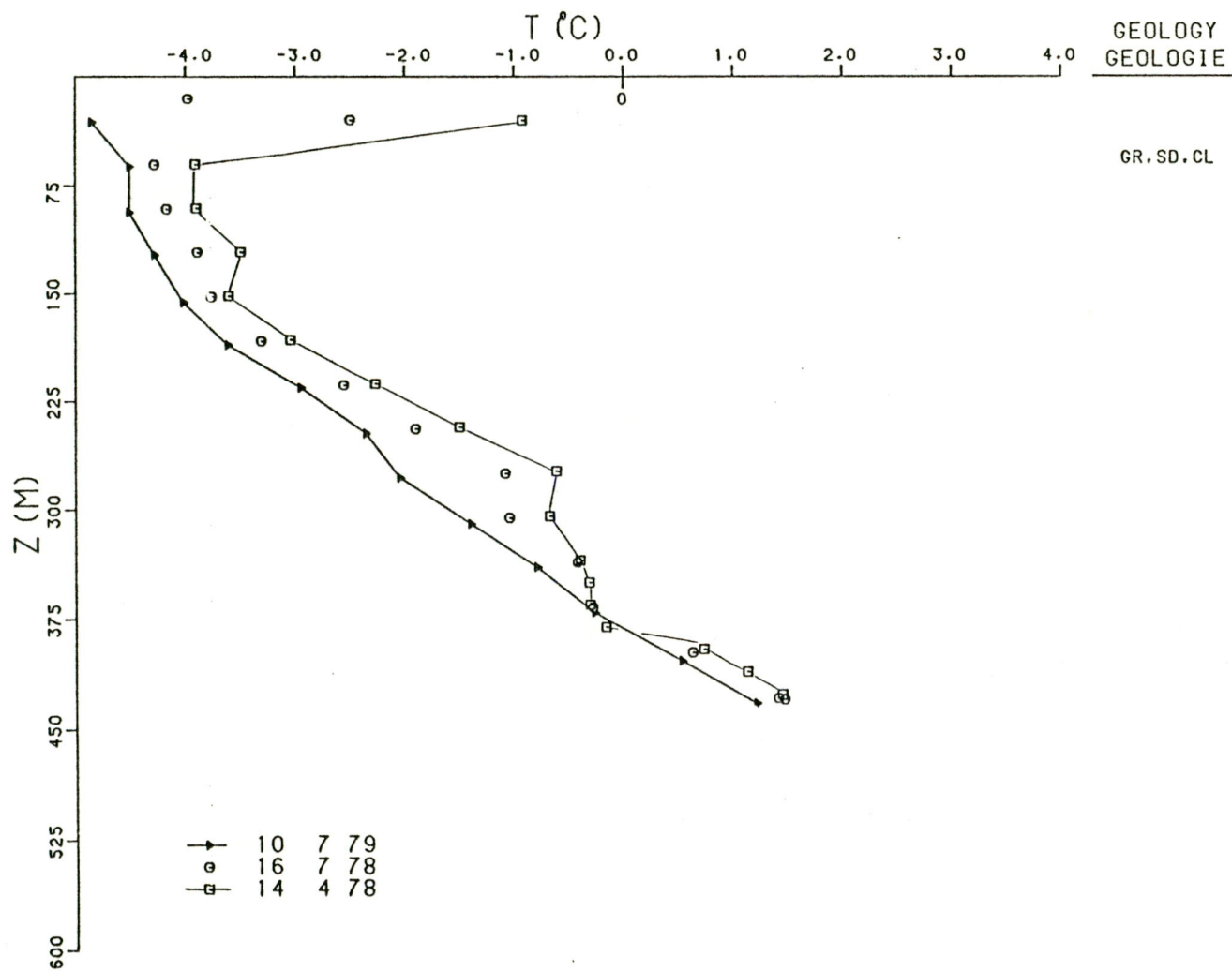
279 PARSONS L-37
 68° 56.7' N 133° 39.9' W/O



33

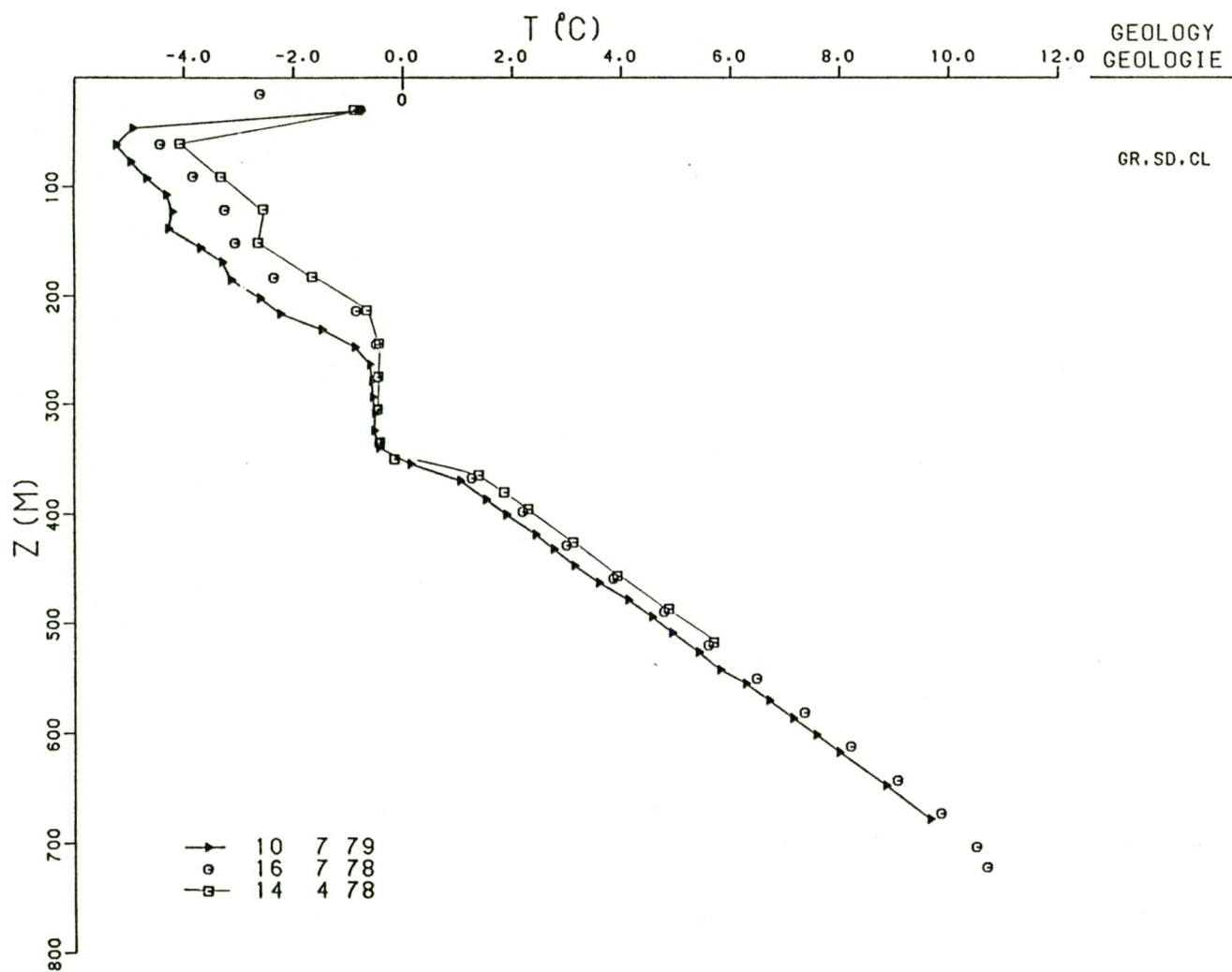
284 SIKU E-21

69° .5' N 133° 36.9' W/O



34

285 PARSONS D-20
 68° 59.2' N 133° 34.4' W/O

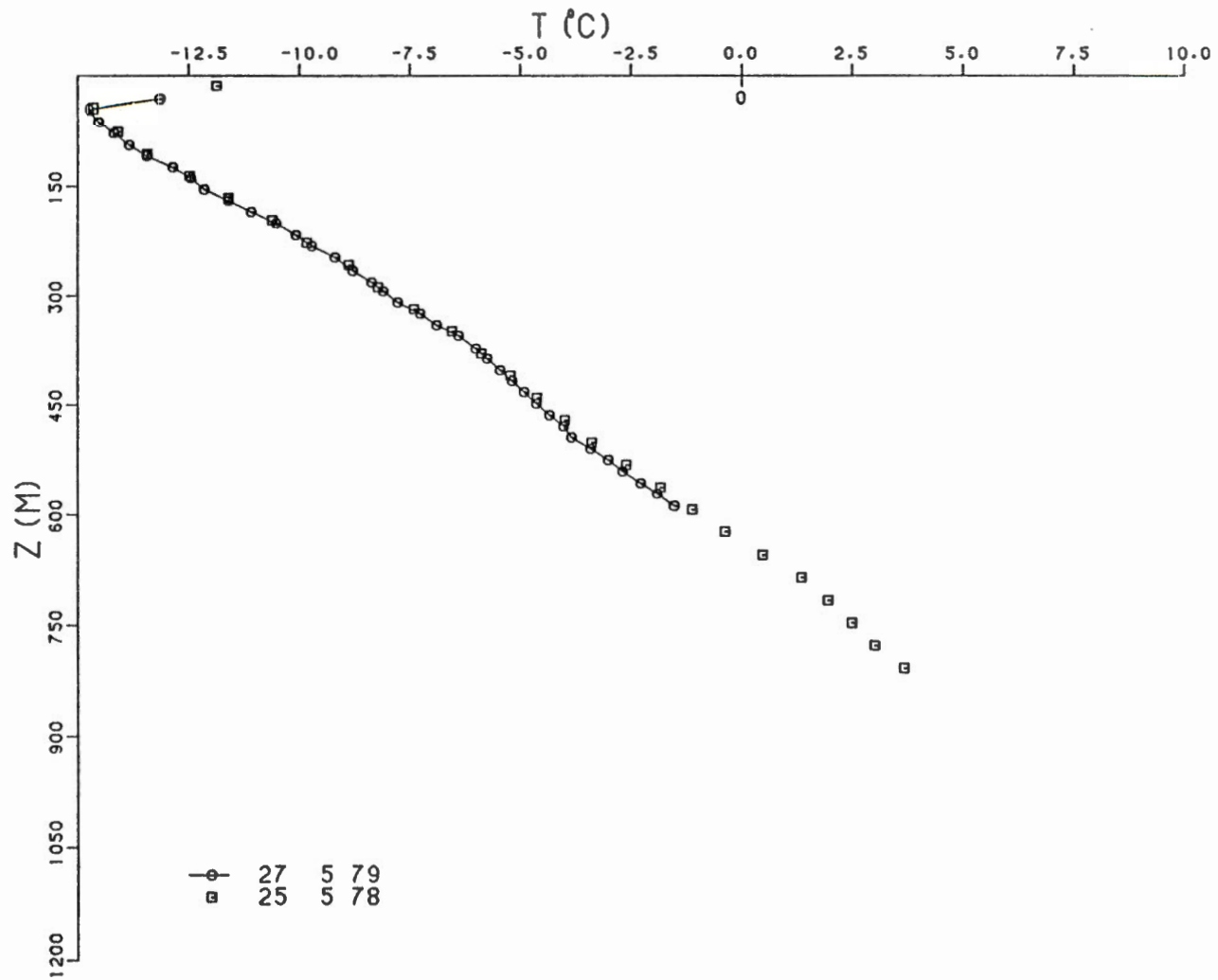


GEOLOGY
 GEOLOGIE

GR. SD. CL

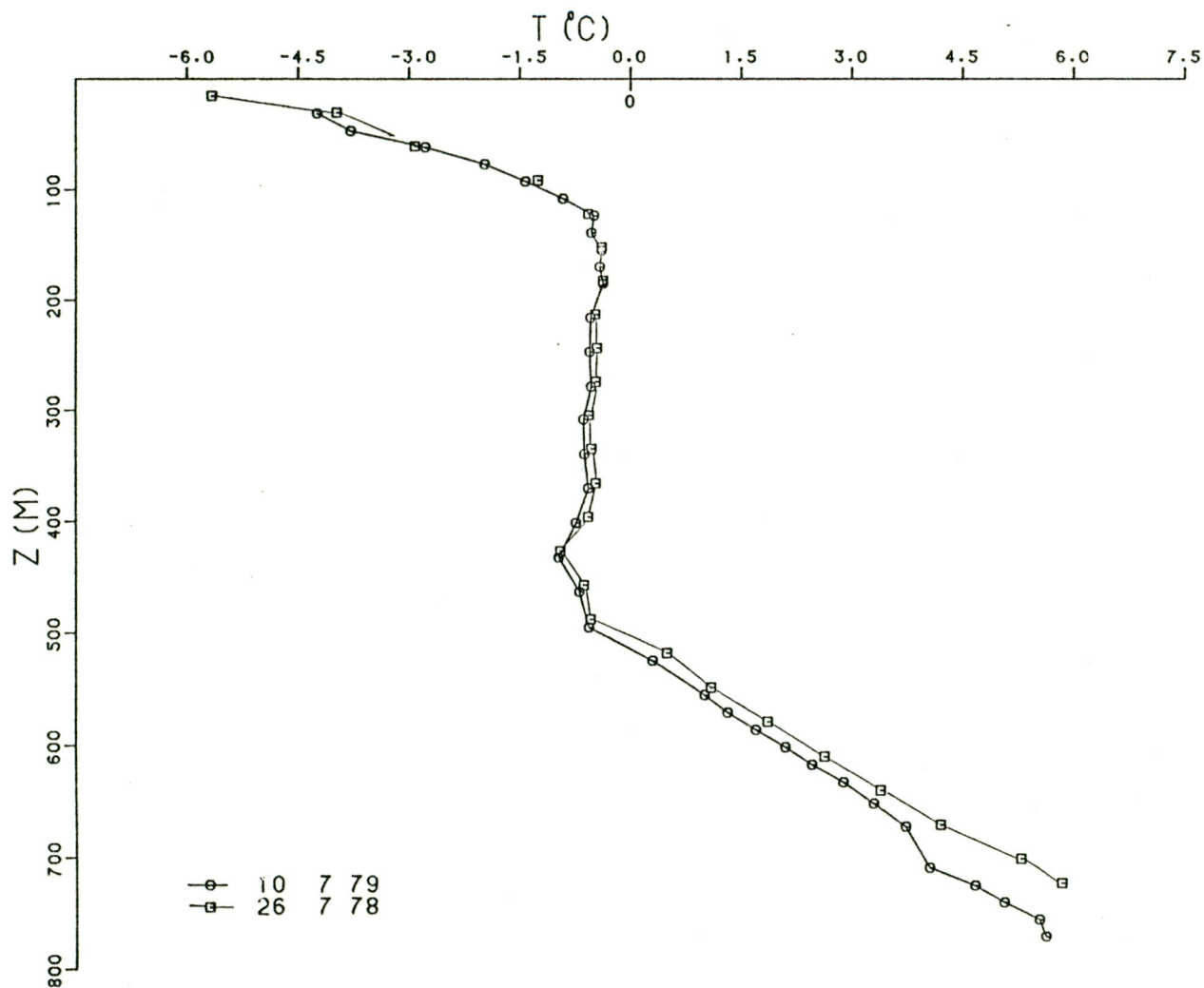
35

286 BENT HORN N-72A
76° 21.5' N 103° 58.2' W/O



287 TAGLU H-54

69° 23.3' N 134° 58.1' W/O



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3. Tables of Equilibrium Temperature

EARTH PHYSICS BRANCH NO. 172 DRAKE B-44
 DIRECTION DE LA PHYSIQUE DU GLOBE NO.

76 DEGREES 23.1 MINUTES NORTH 76 DEGRES 23.1 MINUTES NORD
 108 DEGREES 16.1 MINUTES WEST 108 DEGRES 16.1 MINUTES OUEST

ELEVATION 4 METRES

LOGARITHMIC RETURN TO EQUILIBRIUM RETOUR A L'EQUILIBRE, SUIVANT
 UNE ECHELLE LOGARITHMIQUE

Z (M)	T(EQ) (C)	DELTA T(EQ) (C)	Q (C)	DELTA Q (C)	TIME (YEARS) TEMPS (ANNEES)
25	-14.21	.04	3.82	.56	2.99
50	-12.43	.07	3.76	1.01	2.95
75	-10.59	.02	4.95	.33	3.89
100	-8.38	.06	4.94	.96	3.89
125	-5.96	.11	4.05	1.66	3.17
150	-3.48	.13	6.44	1.95	5.08
175	-1.15	.12	5.09	1.73	4.00
200	1.10	.10	3.44	1.48	2.69
225	2.55	.04	2.24	.62	1.74
250	3.88	.07	1.78	.98	1.37
275	5.12	.07	2.44	1.09	1.90
300	6.34	.07	2.01	1.07	1.56
325	7.36	.06	2.30	.83	1.79

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TEMPERATURE LOGS USED IN RETURN
 TO EQUILIBRIUM CALCULATIONS

7 5 73
 16 5 74
 6 5 75
 17 5 76
 27 5 79

DIAGRAPHIES DE LA TEMPERATURE UTILISEES POUR
 CALCULER LE RETOUR A L'EQUILIBRE THERMIQUE

NOTES...

1. T(EQ) = EQUILIBRIUM TEMPERATURE
 DELTA T(EQ) = STANDARD DEVIATION
 2. Q = SOURCE FUNCTION
 DELTA Q = STANDARD DEVIATION
 3. TIME = THE TIME IN YEARS NECESSARY
 FOR THE TEMPERATURE TO RETURN TO
 WITHIN 0.1 DEGREES OF T(EQ).

REMARQUES...

1. T(EQ) = TEMPERATURE D'EQUILIBRE
 DELTA T(EQ) = L'ECART-TYPE
 2. Q = EFFET DE LA SOURCE,
 DELTA Q = L'ECART-TYPE
 3. TEMPS = LE TEMPS NECESSAIRE POUR
 ATTEINDRE DE NOUVEAU LA TEMPERATURE
 D'EQUILIBRE A 0.1 DEGRES PRES.

DIRECTION DE LA PHYSIQUE DU GLOBE NO.

76 DEGREES 21.8 MINUTES NORTH
103 DEGREES 58.2 MINUTES WEST76 DEGRES 21.8 MINUTES NORD
103 DEGRES 58.2 MINUTES OUEST

ELEVATION 63 METRES

LOGARITHMIC RETURN TO EQUILIRIUM

RETOUR A L'EQUILIBRE, SUIVANT
UNE ECHELLE LOGARITHMIQUE

Z (M)	T (EQ) (C)	DELTA T (FO) (C)	Q (C)	DELTA Q (C)	TIME (YEARS) TEMPS (ANNEES)
50	-15.76	.01	2.04	.02	7.24
75	-15.32	.01	2.11	.02	7.50
100	-14.74	.01	2.09	.02	7.45
125	-14.13	.01	2.07	.02	7.38
150	-13.50	.04	2.11	.06	7.50
175	-12.68	.04	2.08	.06	7.39
200	-11.99	.03	2.03	.04	7.21
225	-11.26	.04	2.03	.06	7.23
250	-10.37	.04	2.14	.07	7.63
275	-9.47	.04	2.00	.07	7.12
300	-8.69	.03	1.93	.06	6.86
325	-8.02	.05	1.91	.07	6.78
350	-7.39	.04	1.89	.06	6.70
375	-6.80	.04	1.91	.06	6.79
400	-6.27	.04	2.04	.07	7.25
425	-5.76	.03	2.14	.05	7.60
450	-5.29	.02	2.37	.04	8.46
475	-4.69	.04	2.14	.06	7.62
500	-4.07	.04	1.73	.06	6.13
525	-3.59	.04	1.73	.06	6.14
550	-3.12	.04	1.48	.07	5.22
575	-2.68	.05	1.27	.08	4.45
600	-2.26	.06	1.08	.10	3.76
625	-1.80	.07	.79	.11	2.72
650	-1.37	.06	.49	.09	1.61
675	-1.02	.07	.83	.11	2.86
700	-.56	.10	1.31	.15	4.60
725	-.03	.09	1.28	.13	4.49
750	.69	.07	1.29	.11	4.50
775	1.43	.07	1.22	.10	4.27
800	2.01	.06	1.21	.08	4.24
825	2.61	.16	1.23	.21	4.28

TEMPERATURE LOGS USED IN RETURN
TO EQUILIRIUM CALCULATIONS17 5 74
6 5 75
15 5 76
17 5 77
25 5 78
27 5 79DIAGRAPHIES DE LA TEMPERATURE UTILISEES POUR
CALCULER LE RETOUR A L'EQUILIBRE THERMIQUE

NOTES...

1. T (EQ) = EQUILIBRIUM TEMPERATURE
DELTA T (FO) = STANDARD DEVIATION
2. Q = SOURCE FUNCTION
DELTA Q = STANDARD DEVIATION
3. TIME = THE TIME IN YEARS NECESSARY
FOR THE TEMPERATURE TO RETURN TO
WITHIN 0.1 DEGREES OF T (EQ).

REMARQUES...

1. T (EQ) = TEMPERATURE D'EQUILIBRE
DELTA T (EQ) = L'ECART-TYPE
2. Q = EFFET DE LA SOURCE,
DELTA Q = L'ECART-TYPE
3. TEMPS = LE TEMPS NECESSAIRE POUR
ATTEINDRE DE NOUVEAU LA TEMPERATURE
D'EQUILIBRE A 0.1 DEGRES PRES.

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EARTH PHYSICS BRANCH NO.

199 DRAKE E-78

DIRECTION DE LA PHYSIQUE DU GLOBE NO.

76 DEGREES 27.3 MINUTES NORTH
108 DEGREES 29.4 MINUTES WEST

76 DEGREES 27.3 MINUTES NORD
108 DEGRES 29.4 MINUTES OUEST

ELEVATION 2 METRES

LOGARITHMIC RETURN TO EQUILIBRIUM

RETOUR A L'EQUILIBRE, SUIVANT
UNE ECHELLE LOGARITHMIQUE

Z (M)	T(EQ) (C)	DELTA T(F0) (C)	Q (C)	DELTA Q (C)	TIME(YEARS) TEMPS(ANNEES)
25	-13.36	.10	7.93	1.06	3.45
50	-11.14	.03	5.77	.40	2.51
75	-9.06	.10	6.27	1.16	2.73
100	-6.78	.15	6.26	1.72	2.72
125	-4.41	.21	5.43	2.42	2.36
150	-1.92	.17	3.83	1.92	1.66
175	.36	.12	3.21	1.42	1.39
200	2.44	.12	2.91	1.36	1.26
225	3.95	.07	2.28	.83	.98
250	5.16	.07	2.33	.76	1.00

TEMPERATURE LOGS USED IN RETURN
TO EQUILIBRIUM CALCULATIONS

DIAGRAMMES DE LA TEMPERATURE UTILISEES POUR
CALCULER LE RETOUR A L'EQUILIBRE THERMIQUE

5 8 74
6 5 75
17 5 76
17 5 77
27 5 79

NOTES...

1. T(EQ) = EQUILIBRIUM TEMPERATURE
DELTA T(EQ) = STANDARD DEVIATION
2. Q = SOURCE FUNCTION
DELTA Q = STANDARD DEVIATION
3. TIME = THE TIME IN YEARS NECESSARY
FOR THE TEMPERATURE TO RETURN TO
WITHIN 0.1 DEGREES OF T(EQ).

REMARQUES...

1. T(EQ) = TEMPERATURE D'EQUILIBRE
DELTA T(EQ) = L'ECART-TYPE
2. Q = EFFET DE LA SOURCE
DELTA Q = L'ECART-TYPE
3. TEMPS = LE TEMPS NECESSAIRE POUR
ATTEINDRE DE NOUVEAU LA TEMPERATURE
D'EQUILIBRE A 0.1 DEGRES PRES.

4-1

EARTH PHYSICS BRANCH NO.

259 DRAKE D-73

DIRECTION DE LA PHYSIQUE DU GLOBE NO.

76 DEGRES 22.1 MINUTES NORTH
108 DEGRES 29.5 MINUTES WEST76 DEGRES 22.1 MINUTES NORD
108 DEGRES 29.5 MINUTES OUEST

ELEVATION 33 METRES

LOGARITHMIC RETURN TO EQUILIBRIUM

RETOUR A L'EQUILIBRE, SUIVANT
UNE ECHELLE LOGARITHMIQUE

Z (M)	T(EQ) (C)	DELTA T(FQ) (C)	Q (C)	DELTA Q (C)	TIME(YEARS) TEMPS(ANNEES)
25	-15.75	.00	9.49	.16	4.40
50	-14.71	.04	6.25	.05	2.89
75	-13.65	.03	4.85	.03	2.23
100	-12.32	.01	4.21	.02	1.94
125	-10.92	.01	4.07	.01	1.87
150	-9.61	.03	3.85	.03	1.77
175	-8.12	.03	3.45	.03	1.58
200	-6.58	.05	3.11	.06	1.42
225	-4.68	.08	2.80	.10	1.28
250	-2.78	.16	2.62	.20	1.20
275	-.78	.09	2.39	.11	1.09
300	.78	.05	2.06	.06	.93
325	2.08	.05	1.93	.06	.87
350	3.33	.06	1.87	.07	.85
375	4.67	.03	1.68	.03	.76

TEMPERATURE LOGS USED IN RETURN
TO EQUILIBRIUM CALCULATIONSDIAGRAMMES DE LA TEMPERATURE UTILISES POUR
CALCULER LE RETOUR A L'EQUILIBRE THERMIQUE16 5 75
23 5 76
26 5 78
27 5 79

NOTES...

1. T(EQ) = EQUILIBRIUM TEMPERATURE
DELTA T(EQ) = STANDARD DEVIATION
2. Q = SOURCE FUNCTION
DELTA Q = STANDARD DEVIATION
3. TIME = THE TIME IN YEARS NECESSARY
FOR THE TEMPERATURE TO RETURN TO
WITHIN 0.1 DEGREES OF T(EQ).

REMARQUES...

1. T(EQ) = TEMPERATURE D'EQUILIBRE
DELTA T(EQ) = L'ECART-TYPE
2. Q = EFFET DE LA SOURCE
DELTA Q = L'ECART-TYPE
3. TEMPS = LE TEMPS NECESSAIRE POUR
ATTEINDRE DE NOUVEAU LA TEMPERATURE
D'EQUILIBRE A 0.1 DEGRES PRES.

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EARTH PHYSICS BRANCH NO.

272 PARSONS L-43

DIRECTION DE LA PHYSIQUE DU GLOBE NO.

68 DEGREES 52.6 MINUTES NORTH
133 DEGREES 41.9 MINUTES WEST68 DEGRES 52.6 MINUTES NORD
133 DEGRES 41.9 MINUTES OUEST

ELEVATION 49 METRES

LOGARITHMIC RETURN TO EQUILIBRIUM

RETOUR A L'EQUILIBRE, SUIVANT
UNE ECHELLE LOGARITHMIQUE

Z (M)	T(EQ) (C)	DELTA T(EQ) (C)	Q (C)	DELTA Q (C)	TIME(YEARS) TEMPS(ANNEES)
25	-7.15	1.03	17.29	14.16	25.04
50	-6.72	.20	21.63	1.36	31.33
75	-5.72	.15	19.58	1.07	28.35
100	-5.00	.37	18.68	2.51	27.05
125	-4.27	.28	15.52	1.87	22.46
150	-3.10	.23	11.34	1.56	16.39
175	-2.28	.22	8.21	1.48	11.85
200	-1.51	.22	5.29	1.48	7.62
225	-1.00	.12	3.22	.42	4.61
250	-.71	.04	2.36	.29	3.35
275	-.36	.06	2.52	.39	3.59
300	.11	.09	7.55	.63	10.89
325	.86	.07	8.00	.45	11.55
350	1.64	.05	7.57	.33	10.91
375	2.36	.05	7.62	.36	10.99
400	3.16	.05	7.52	.35	10.84
425	3.95	.06	7.30	.42	10.53
450	4.89	.06	7.40	.40	10.67
475	5.70	.05	6.73	.36	9.70
500	6.41	.05	6.80	.33	9.79
525	7.43	.02	6.45	.13	9.29
550	8.39	.02	6.48	.10	9.34
575	9.20	.01	5.99	.07	8.62
600	9.92	.01	5.87	.06	8.45

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TEMPERATURE LOGS USED IN RETURN
TO EQUILIBRIUM CALCULATIONS

10 7 76
20 10 76
12 3 77
14 8 77
17 3 78
15 7 78
10 7 79

DIAGRAMMES DE LA TEMPERATURE UTILISEES POUR
CALCULER LE RETOUR A L'EQUILIBRE THERMIQUE

NOTES...

1. T(EQ) = EQUILIBRIUM TEMPERATURE
DELTA T(EQ) = STANDARD DEVIATION
2. Q = SOURCE FUNCTION
DELTA Q = STANDARD DEVIATION
3. TIME = THE TIME IN YEARS NECESSARY
FOR THE TEMPERATURE TO RETURN TO
WITHIN 0.1 DEGREES OF T(EQ).

REMARQUES...

1. T(EQ) = TEMPERATURE D'EQUILIBRE
DELTA T(EQ) = L'ECART-TYPE
2. Q = EFFET DE LA SOURCE
DELTA Q = L'ECART-TYPE
3. TEMPS = LE TEMPS NECESSAIRE POUR
ATTEINDRE DE NOUVEAU LA TEMPERATURE
D'EQUILIBRE A 0.1 DEGRES PRES.

EARTH PHYSICS BRANCH NO.

273 KAMIK D-48

DIRECTION DE LA PHYSIQUE DU GLOBE NO.

68 DEGREES 57.2 MINUTES NORTH
133 DEGREES 27.5 MINUTES WEST

68 DEGRES 57.2 MINUTES NORD
133 DEGRES 27.5 MINUTES OUEST

ELEVATION 31 METRES

LOGARITHMIC RETURN TO EQUILIBRIUM

RETOUR A L'EQUILIBRE, SUIVANT
UNE ECHELLE LOGARITHMIQUE

Z (M)	T (EQ) (C)	DELTA T (FO) (C)	Q (C)	DELTA Q (C)	TIME (YEARS) TEMPS (ANNEES)
50	-7.61	.18	12.27	.82	34.14
75	-6.96	.13	8.81	.56	24.49
100	-6.81	.13	7.92	.59	21.99
125	-6.41	.12	7.89	.53	21.92
150	-5.75	.09	6.47	.38	17.95
175	-5.25	.08	7.09	.35	19.68
200	-4.21	.04	5.51	.18	15.26
225	-3.68	.09	5.63	.40	15.60
250	-3.24	.10	6.30	.42	17.47
275	-2.44	.12	4.51	.51	12.46

TEMPERATURE LOGS USED IN RETURN
TO EQUILIBRIUM CALCULATIONS

DIAGRAMMES DE LA TEMPERATURE UTILISEES POUR
CALCULER LE RETOUR A L'EQUILIBRE THERMIQUE

20 10 76
12 3 77
14 8 77
17 3 78
16 7 78
19 7 79

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NOTES...

1. T (EQ) = EQUILIBRIUM TEMPERATURE
DELTA T (FO) = STANDARD DEVIATION
2. Q = SOURCE FUNCTION
DELTA Q = STANDARD DEVIATION
3. TIME = THE TIME IN YEARS NECESSARY
FOR THE TEMPERATURE TO RETURN TO
WITHIN 0.1 DEGREES OF T (EQ).

REMARQUES...

1. T (EQ) = TEMPERATURE D'EQUILIBRE
DELTA T (EQ) = L'ECART-TYPE
2. Q = EFFET DE LA SOURCE,
DELTA Q = L'ECART-TYPE
3. TEMPS = LE TEMPS NECESSAIRE POUR
ATTEINDRE DE NOUVEAU LA TEMPERATURE
D'EQUILIBRE A 0.1 DEGRES PRÈS.

EARTH PHYSICS BRANCH NO. 275 PARSONS N-17
 DIRECTION DE LA PHYSIQUE DU GLOBE NO.

68 DEGREES 56.9 MINUTES NORTH 68 DEGRES 56.9 MINUTES NORD
 133 DEGREES 34.0 MINUTES WEST 133 DEGRES 34.0 MINUTES OUEST

ELEVATION 52 METRES

LOGARITHMIC RETURN TO EQUILIBRIUM RETOUR A L'EQUILIBRE, SUIVANT
 UNE ECHELLE LOGARITHMIQUE

Z (M)	T (EQ) (C)	DELTA T (FO) (C)	Q (C)	DELTA Q (C)	TIME (YEARS) TEMPS (ANNEES)
25					
50	-1.68	.18	1.60	.44	4.93
75	-2.17	.44	2.74	1.14	8.55
100	-1.63	.17	2.65	.41	8.27
125	-1.47	.10	2.69	.24	8.40
150	-2.88	.40	3.80	.99	11.91
175	-2.58	.37	3.36	.91	10.54
200	-2.09	.31	2.71	.78	8.45
225	-1.54	.27	1.88	.57	5.83
250	-1.05	.16	1.11	.39	3.36
275	-.77	.09	.66	.21	1.95
300	-.52	.02	.33	.06	.89
325	-.36	.02	.42	.06	1.20
350	-.13	.04	2.17	.10	6.75
375	.53	.05	3.74	.13	11.74
400	1.37	.04	3.78	.10	11.85
425	2.16	.04	3.75	.09	11.77
450	2.85	.05	3.86	.13	12.10
475	3.63	.03	3.65	.08	11.45
500	4.34	.03	3.52	.07	11.02
525	5.04	.04	3.40	.09	10.66
550	5.78	.04	3.29	.08	10.31
575	6.37	.03	3.19	.06	9.99
600	7.10	.04	3.22	.09	10.06

57

TEMPERATURE LOGS USED IN RETURN
 TO EQUILIBRIUM CALCULATIONS

DIAGRAMMES DE LA TEMPERATURE UTILISES POUR
 CALCULER LE RETOUR A L'EQUILIBRE THERMIQUE

10 7 76
 20 10 76
 12 3 77
 14 8 77
 17 3 78
 15 7 78
 19 7 79

NOTES...

1. T (EQ) = EQUILIBRIUM TEMPERATURE
 DELTA T (EQ) = STANDARD DEVIATION
2. Q = SOURCE FUNCTION
 DELTA Q = STANDARD DEVIATION
3. TIME = THE TIME IN YEARS NECESSARY
 FOR THE TEMPERATURE TO RETURN TO
 WITHIN 0.1 DEGREES OF T (EQ).

REMARQUES...

1. T (EQ) = TEMPERATURE D'EQUILIBRE
 DELTA T (EQ) = L'ECART-TYPE
2. Q = EFFET DE LA SOURCE
 DELTA Q = L'ECART-TYPE
3. TEMPS = LE TEMPS NECESSAIRE POUR
 ATTEINDRE DE NOUVEAU LA TEMPERATURE
 D'EQUILIBRE A 0.1 DEGRES PRES.

EARTH PHYSICS BRANCH NO.

277 SIKU A-12

DIRECTION DE LA PHYSIQUE DU GLORE NO.

69 DEGREES 1.0 MINUTES NORTH
133 DEGREES 32.5 MINUTES WEST

69 DEGRÉS 1.0 MINUTES NORD
133 DEGRÉS 32.5 MINUTES OUEST

ELEVATION 56 METRES

LOGARITHMIC RETURN TO EQUILIBRIUM

RETOUR A L'EQUILIBRE, SUIVANT
UNE ECHELLE LOGARITHMIQUE

Z (M)	T(EQ) (C)	DELTA T(FQ) (C)	Q (C)	DELTA Q (C)	TIME (YEARS) TEMPS (ANNEES)
50	-5.42	.23	29.35	3.49	35.32
75	-5.14	.24	21.87	2.57	26.30
100	-5.11	.31	27.81	3.43	33.46
125	-4.87	.33	27.79	3.64	33.44
150	-4.00	.13	13.30	1.47	15.97
175	-3.44	.05	8.87	.57	10.63
200	-3.12	.07	11.46	.72	13.75
225	-2.65	.07	13.25	.74	15.91
250	-1.97	.12	10.48	1.34	12.58
275	-1.41	.15	7.77	1.65	9.31
300	-.90	.07	3.44	.71	4.08
325	-.50	.02	.96	.21	1.10
350	-.06	.20	.10	2.15	.07
375	.26	.02	8.72	.26	10.45
400	1.16	.04	7.66	.45	9.17
425	1.85	.07	7.08	.74	8.48

917

TEMPERATURE LOGS USED IN RETURN
TO EQUILIBRIUM CALCULATIONS

DIAGRAMMES DE LA TEMPERATURE UTILISEES POUR
CALCULER LE RETOUR A L'EQUILIBRE THERMIQUE

14 3 77
14 8 77
16 7 78
19 7 79

NOTES...

1. T(EQ) = EQUILIBRIUM TEMPERATURE
DELTA T(FQ) = STANDARD DEVIATION
2. Q = SOURCE FUNCTION
DELTA Q = STANDARD DEVIATION
3. TIME = THE TIME IN YEARS NECESSARY
FOR THE TEMPERATURE TO RETURN TO
WITHIN 0.1 DEGREES OF T(EQ).

REMARQUES...

1. T(EQ) = TEMPERATURE D'EQUILIBRE
DELTA T(FQ) = L'ECART-TYPE
2. Q = EFFET DE LA SOURCE,
DELTA Q = L'ECART-TYPE
3. TEMPS = LE TEMPS NECESSAIRE POUR
ATTEINDRE DE NOUVEAU LA TEMPERATURE
D'EQUILIBRE A 0.1 DEGRES PRS.

EARTH PHYSICS BRANCH NO.

279 PARSONS L-37

DIRECTION DE LA PHYSIQUE DU GLOBE NO.

68 DEGREES 56.7 MINUTES NORTH
133 DEGREES 39.9 MINUTES WEST

68 DEGRES 56.7 MINUTES NORD
133 DEGRES 39.9 MINUTES OUEST

ELEVATION 38 METRES

LOGARITHMIC RETURN TO EQUILIBRIUM

RETOUR A L'EQUILIBRE, SUIVANT
UNE ECHELLE LOGARITHMIQUE

Z (M)	T(EQ) (C)	DELTA T(F0) (C)	Q (C)	DELTA Q (C)	TIME(YEARS) TEMPS(ANNEES)
25					
50	-5.56	.13	5.24	.67	14.09
75	-4.96	.03	9.69	.16	26.16
100	-4.34	.05	11.13	.29	30.06
125	-3.33	.02	6.59	.08	17.74
150	-2.91	.02	7.58	.10	20.43
175	-2.40	.10	7.78	.55	20.97
200	-1.70	.12	5.69	.64	15.30
225	-1.06	.09	3.30	.47	8.82
250	-.98	.05	2.50	.28	6.64
275	-.37	.02	.35	.11	.83

TEMPERATURE LOGS USED IN RETURN
TO EQUILIBRIUM CALCULATIONS

DIAGRAPHIES DE LA TEMPERATURE UTILISEES POUR
CALCULER LE RETOUR A L'EQUILIBRE THERMIQUE

14 4 78
15 7 78
19 7 79

47

NOTES...

1. T(EQ) = EQUILIBRIUM TEMPERATURE
DELTA T(EQ) = STANDARD DEVIATION
2. Q = SOURCE FUNCTION
DELTA Q = STANDARD DEVIATION
3. TIME = THE TIME IN YEARS NECESSARY
FOR THE TEMPERATURE TO RETURN TO
WITHIN 0.1 DEGREES OF T(EQ).

REMARQUES...

1. T(EQ) = TEMPERATURE D'EQUILIBRE
DELTA T(EQ) = L'ECART-TYPE
2. Q = EFFET DE LA SOURCE,
DELTA Q = L'ECART-TYPE
3. TEMPS = LE TEMPS NECESSAIRE POUR
ATTEINDRE DE NOUVEAU LA TEMPERATURE
D'EQUILIBRE A 0.1 DEGRES PRS.

EARTH PHYSICS BRANCH NO. 284 SIKU E-21
 DIRECTION DE LA PHYSIQUE DU GLORE NO.

69 DEGREES .5 MINUTES NORTH 69 DEGRES .5 MINUTES NORD
 133 DEGRES 36.9 MINUTES WEST 133 DEGRES 36.9 MINUTES OUEST

ELEVATION 55 METRES

LOGARITHMIC RETURN TO EQUILIBRIUM RETOUR A L'EQUILIBRE, SUIVANT
 UNE ECHELLE LOGARITHMIQUE

Z (M)	T(EQ) (C)	DELTA T(EQ) (C)	Q (C)	DELTA Q (C)	TIME (YEARS) TEMPS (ANNEES)
50	-5.98	.09	15.70	.60	27.86
75	-4.96	.08	5.11	.54	9.00
100	-4.96	.04	5.81	.29	10.26
125	-4.84	.07	6.53	.45	11.54
150	-4.42	.00	4.14	.02	7.28
175	-4.19	.03	4.98	.17	8.77
200	-3.81	.03	5.95	.21	10.51
225	-3.37	.04	6.89	.27	12.18
250	-3.07	.05	8.69	.35	15.39
275	-3.13	.06	12.80	.40	22.70
300	-2.29	.03	8.10	.16	14.33
325	-1.52	.05	5.28	.33	9.31
350	-.83	.06	2.69	.39	4.71
375	-.11	.12	-.29	.76	-.61
400	.15	.01	3.38	.06	5.93
425	.76	.03	3.32	.22	5.82

48

TEMPERATURE LOGS USED IN RETURN
 TO EQUILIBRIUM CALCULATIONS

DIAGRAMMES DE LA TEMPERATURE UTILISEES POUR
 CALCULER LE RETOUR A L'EQUILIBRE THERMIQUE

14 4 78
 16 7 78
 10 7 79

NOTES...

1. T(EQ) = EQUILIBRIUM TEMPERATURE
 DELTA T(EQ) = STANDARD DEVIATION
2. Q = SOURCE FUNCTION
 DELTA Q = STANDARD DEVIATION
3. TIME = THE TIME IN YEARS NECESSARY
 FOR THE TEMPERATURE TO RETURN TO
 WITHIN 0.1 DEGREES OF T(EQ).

REMARQUES...

1. T(EQ) = TEMPERATURE D'EQUILIBRE
 DELTA T(EQ) = L'ECART-TYPE
2. Q = EFFET DE LA SOURCE
 DELTA Q = L'ECART-TYPE
3. TEMPS = LE TEMPS NECESSAIRE POUR
 ATTEINDRE DE NOUVEAU LA TEMPERATURE
 D'EQUILIBRE A 0.1 DEGRES PRES.

EARTH PHYSICS BRANCH NO. 285 PARSONS D-20
 DIRECTION DE LA PHYSIQUE DU GLOBE NO.

68 DEGREES 59.2 MINUTES NORTH 68 DEGRES 59.2 MINUTES NORD
 133 DEGREES 36.4 MINUTES WEST 133 DEGRES 36.4 MINUTES OUEST

ELEVATION 62 METRES

LOGARITHMIC RETURN TO EQUILIBRIUM RETOUR A L'EQUILIBRE, SUIVANT
 UNE ECHELLE LOGARITHMIQUE

Z (M)	T(EQ) (C)	DELTA T(EQ) (C)	Q (C)	DELTA Q (C)	TIME (YEARS) TEMPS (ANNEES)
50	-7.57	.60	158.88	23.87	73.97
75	-6.59	.03	93.06	1.10	43.32
100	-6.22	.13	99.89	5.35	46.58
125	-6.24	.17	117.98	6.91	54.93
150	-5.53	.03	93.94	1.36	43.73
175	-4.86	.26	92.90	10.17	43.25
200	-4.64	.05	115.86	2.16	53.94
225	-3.36	.29	94.22	11.41	43.86
250	-1.34	.09	30.13	3.66	14.01
275	-.74	.02	9.37	.65	4.34
300	-.64	.02	5.74	.85	2.65
325	-.64	.02	6.60	.89	3.05
350	.05	.49	-1.46	19.51	-.70
375	.57	.04	35.12	1.64	16.33
400	1.20	.01	38.89	.54	18.09
425	1.95	.02	35.83	.97	16.67
450	2.54	.03	38.75	1.21	18.02
475	3.37	.01	35.57	.38	16.54
500	4.06	.01	36.80	.52	17.12

49

TEMPERATURE LOGS USED IN RETURN
 TO EQUILIBRIUM CALCULATIONS

14 4 78
 16 7 78
 18 7 79

DIAGRAMMES DE LA TEMPERATURE UTILISEES POUR
 CALCULER LE RETOUR A L'EQUILIBRE THERMIQUE

NOTES...

1. T(EQ) = EQUILIBRIUM TEMPERATURE
 DELTA T(EQ) = STANDARD DEVIATION
2. Q = SOURCE FUNCTION
 DELTA Q = STANDARD DEVIATION
3. TIME = THE TIME IN YEARS NECESSARY
 FOR THE TEMPERATURE TO RETURN TO
 WITHIN 0.1 DEGREES OF T(EQ).

REMARQUES...

1. T(EQ) = TEMPERATURE D'EQUILIBRE
 DELTA T(EQ) = L'ECART-TYPE
2. Q = EFFET DE LA SOURCE,
 DELTA Q = L'ECART-TYPE
3. TEMPS = LE TEMPS NECESSAIRE POUR
 ATTEINDRE DE NOUVEAU LA TEMPERATURE
 D'EQUILIBRE A 0.1 DEGRES PRS.

EARTH PHYSICS BRANCH NO.

286 BENT HORN N-72A

DIRECTION DE LA PHYSIQUE DU GLOBE NO.

76 DEGRES 21.5 MINUTES NORTH
103 DEGRES 58.2 MINUTES WEST76 DEGRES 21.5 MINUTES NORD
103 DEGRES 58.2 MINUTES OUEST

ELEVATION 43 METRES

LOGARITHMIC RETURN TO EQUILIBRIUM

RETOUR A L'EQUILIBRE, SUIVANT
UNE ECHELLE LOGARITHMIQUE

Z (M)	T(EO) (C)	DELTA T(FQ) (C)	Q (C)	DELTA Q (C)	TIME (YEARS) TEMPS (ANNEES)
50	-15.06		9.08		14.35
75	-14.62		8.63		13.64
100	-13.98		7.07		11.15
125	-12.46		.47		.67
150	-12.70		10.40		16.45
175	-11.78		7.52		11.86
200	-10.65		1.85		2.87
225	-9.88		-0.35		-0.65
250	-9.17		.55		.79
275	-8.64		2.02		3.12
300	-8.17		4.25		6.68
325	-7.37		2.20		3.41
350	-6.74		3.35		5.25
375	-5.95		-0.87		-1.47
400	-5.68		3.78		5.93
425	-5.38		7.35		11.60
450	-5.10		10.96		17.33
475	-4.66		12.21		19.33
500	-4.45		17.10		27.09
525	-3.67		14.49		22.94
550	-3.28		18.50		29.32
575	-2.58		16.89		26.76

TEMPERATURE LOGS USED IN RETURN
TO EQUILIBRIUM CALCULATIONS25 5 78
27 5 79DIAGRAMMES DE LA TEMPERATURE UTILISES POUR
CALCULER LE RETOUR A L'EQUILIBRE THERMIQUE

NOTES...

1. T(EO) = EQUILIBRIUM TEMPERATURE
DELTA T(FQ) = STANDARD DEVIATION
2. Q = SOURCE FUNCTION
DELTA Q = STANDARD DEVIATION
3. TIME = THE TIME IN YEARS NECESSARY
FOR THE TEMPERATURE TO RETURN TO
WITHIN 0.1 DEGREES OF T(EO).

REMARQUES...

1. T(EO) = TEMPERATURE D'EQUILIBRE
DELTA T(EO) = L'ECART-TYPE
2. Q = EFFET DE LA SOURCE,
DELTA Q = L'ECART-TYPE
3. TEMPS = LE TEMPS NECESSAIRE POUR
ATTEINDRE DE NOUVEAU LA TEMPERATURE
D'EQUILIBRE A 0.1 DEGRES PRES.

50

EARTH PHYSICS BRANCH NO. 287 TAGLU H-54
 DIRECTION DE LA PHYSIQUE DU GLOBE NO.

69 DEGREES 23.3 MINUTES NORTH 69 DEGRES 23.3 MINUTES NORD
 134 DEGREES 58.1 MINUTES WEST 134 DEGRES 58.1 MINUTES OUEST

ELEVATION 1 METRES

LOGARITHMIC RETURN TO EQUILIBRIUM

RETOUR A L'EQUILIBRE, SUIVANT
 UNE ECHELLE LOGARITHMIQUE

Z (M)	T(EQ) (C)	DELTA T(EQ) (C)	Q (C)	DELTA Q (C)	TIME (YEARS) TEMPS (ANNEES)
50	-4.03		4.30		10.94
75	-1.99		-.90		-2.45
100	-1.37		1.79		4.47
125	-.42		-.83		-2.27
150	-.49		.43		.97
175	-.45		.36		.79
200	-.49		.30		.64
225	-.67		1.14		2.81
250	-.71		1.41		3.51
275	-.65		.95		2.32
300	-.71		.86		2.08
325	-.78		1.32		3.28
350	-.78		1.56		3.89
375	-.76		1.41		3.49
400	-.91		1.62		4.05
425	-.91		-.20		-.65
450	-.99		1.57		3.92
475	-.76		.99		2.42
500	-.90		4.52		11.51
525	-.22		4.87		12.43
550	.49		3.63		9.22
575	.87		5.07		12.92
600	1.53		4.90		12.49
625	2.13		5.07		12.92
650	2.62		5.93		15.15
675	2.78		9.13		23.39
700	1.94		19.31		49.60

51

TEMPERATURE LOGS USED IN RETURN
 TO EQUILIBRIUM CALCULATIONS

26 7 78
 10 7 79

DIAGRAMMES DE LA TEMPERATURE UTILISEES POUR
 CALCULER LE RETOUR A L'EQUILIBRE THERMIQUE

NOTES...

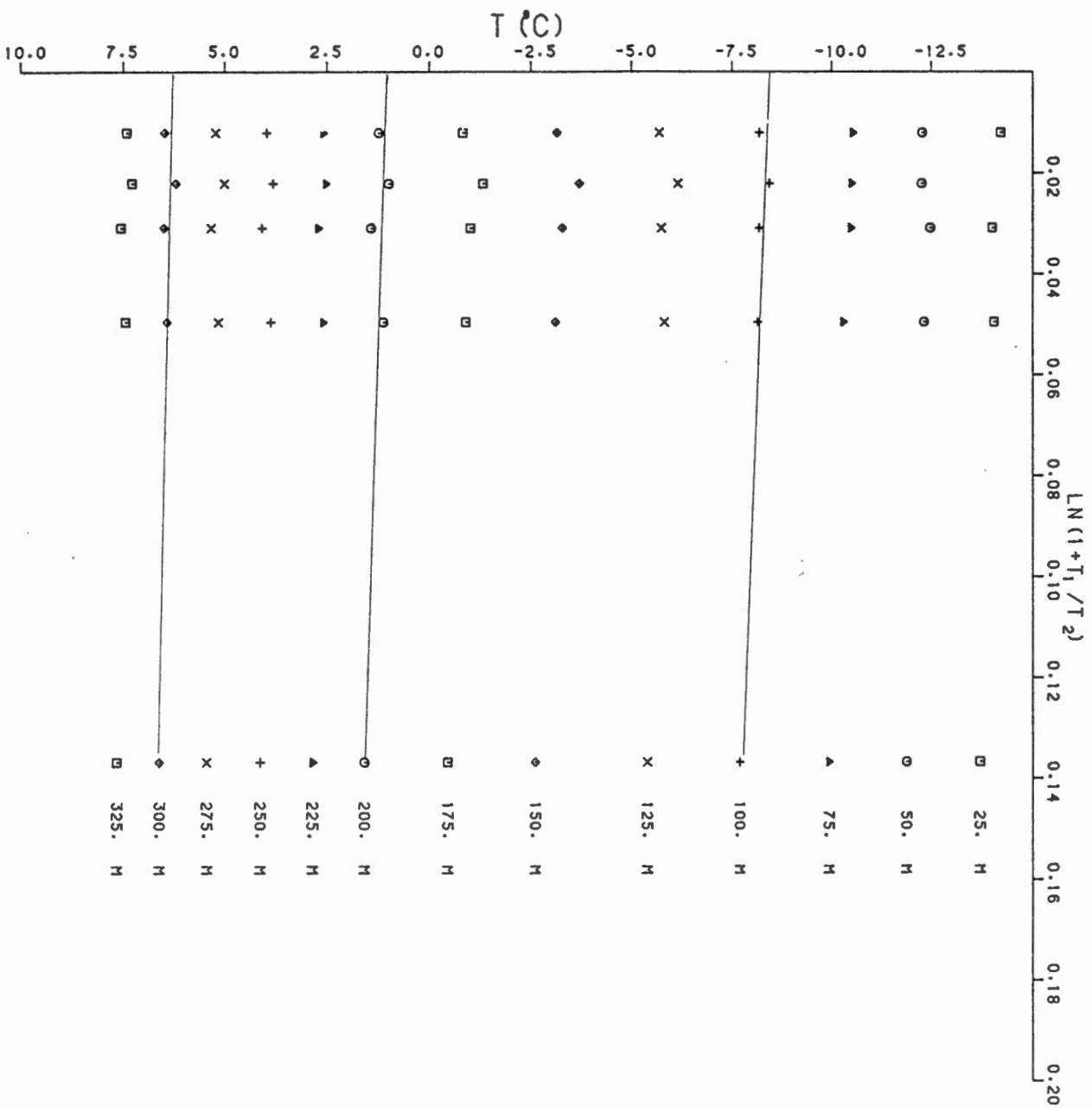
1. T(EQ) = EQUILIBRIUM TEMPERATURE
 DELTA T(EQ) = STANDARD DEVIATION
2. Q = SOURCE FUNCTION
 DELTA Q = STANDARD DEVIATION
3. TIME = THE TIME IN YEARS NECESSARY
 FOR THE TEMPERATURE TO RETURN TO
 WITHIN 0.1 DEGREES OF T(EQ).

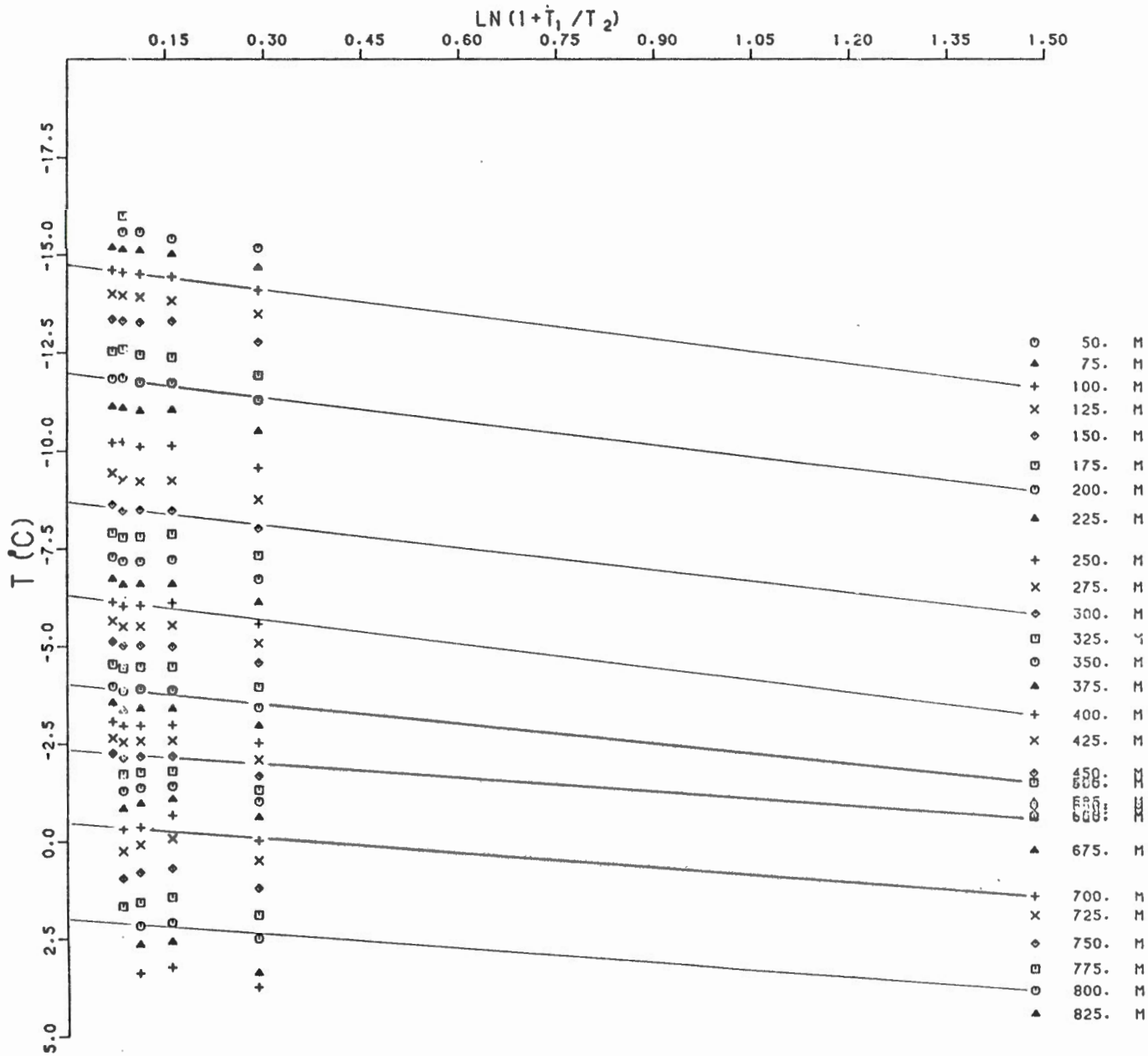
REMARQUES...

1. T(EQ) = TEMPERATURE D'EQUILIBRE
 DELTA T(EQ) = L'ECART-TYPE
2. Q = EFFET DE LA SOURCE,
 DELTA Q = L'ECART-TYPE
3. TEMPS = LE TEMPS NECESSAIRE POUR
 ATTEINDRE DE NOUVEAU LA TEMPERATURE
 D'EQUILIBRE A 0.1 DEGRES PRES.

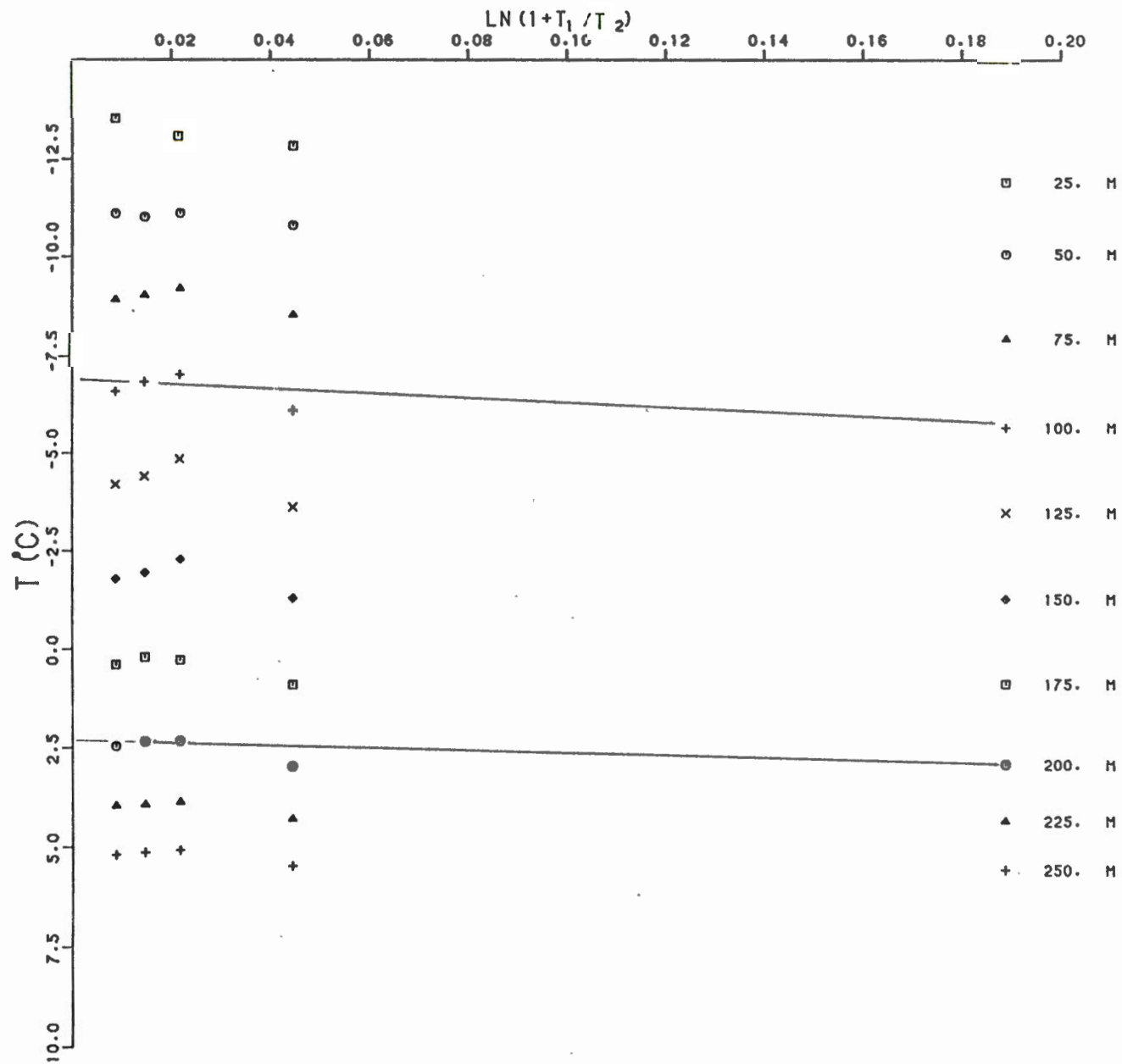
4. Graphs of the Return to Thermal Equilibrium

172 DRAKE B-44

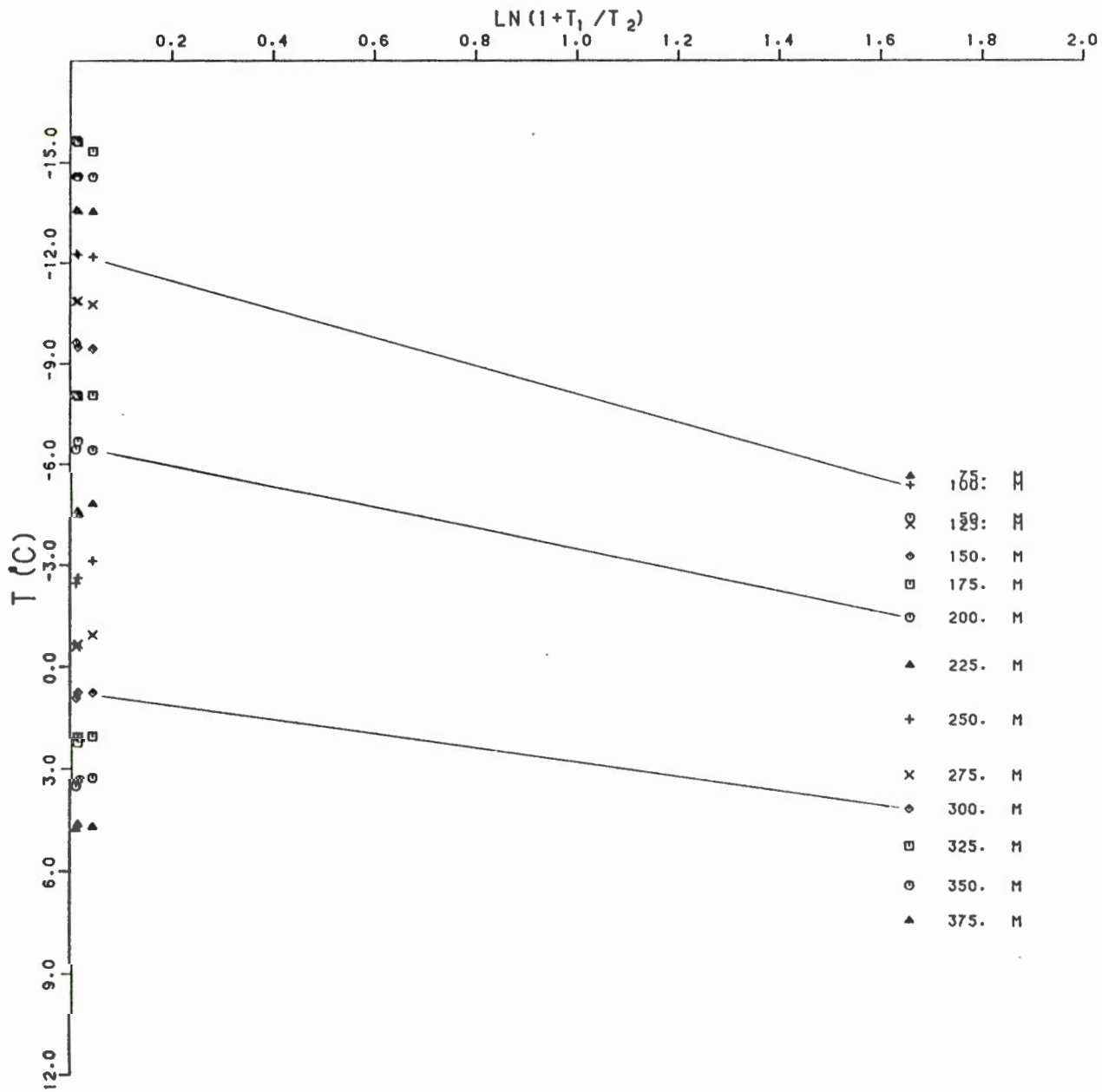


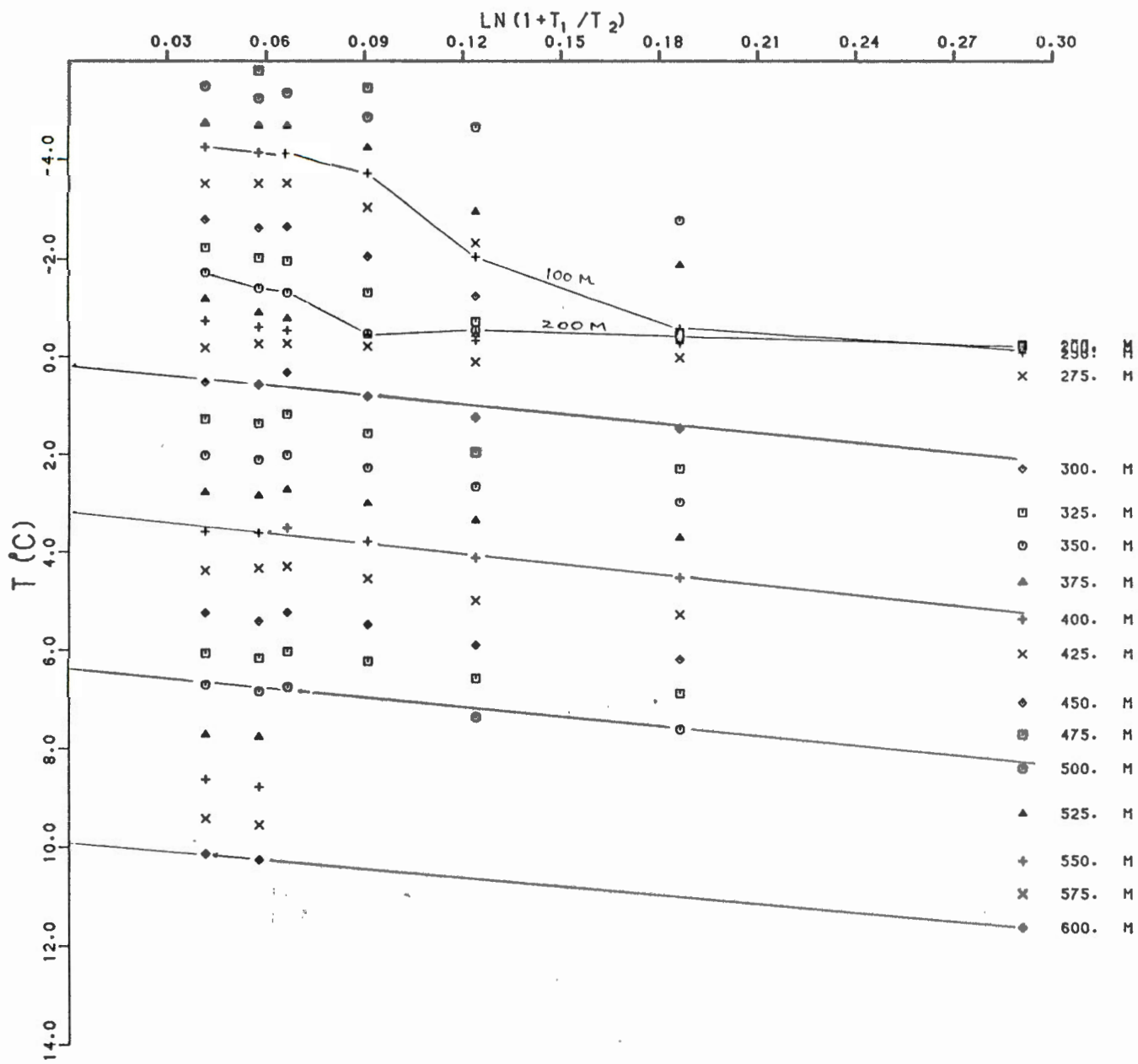


54

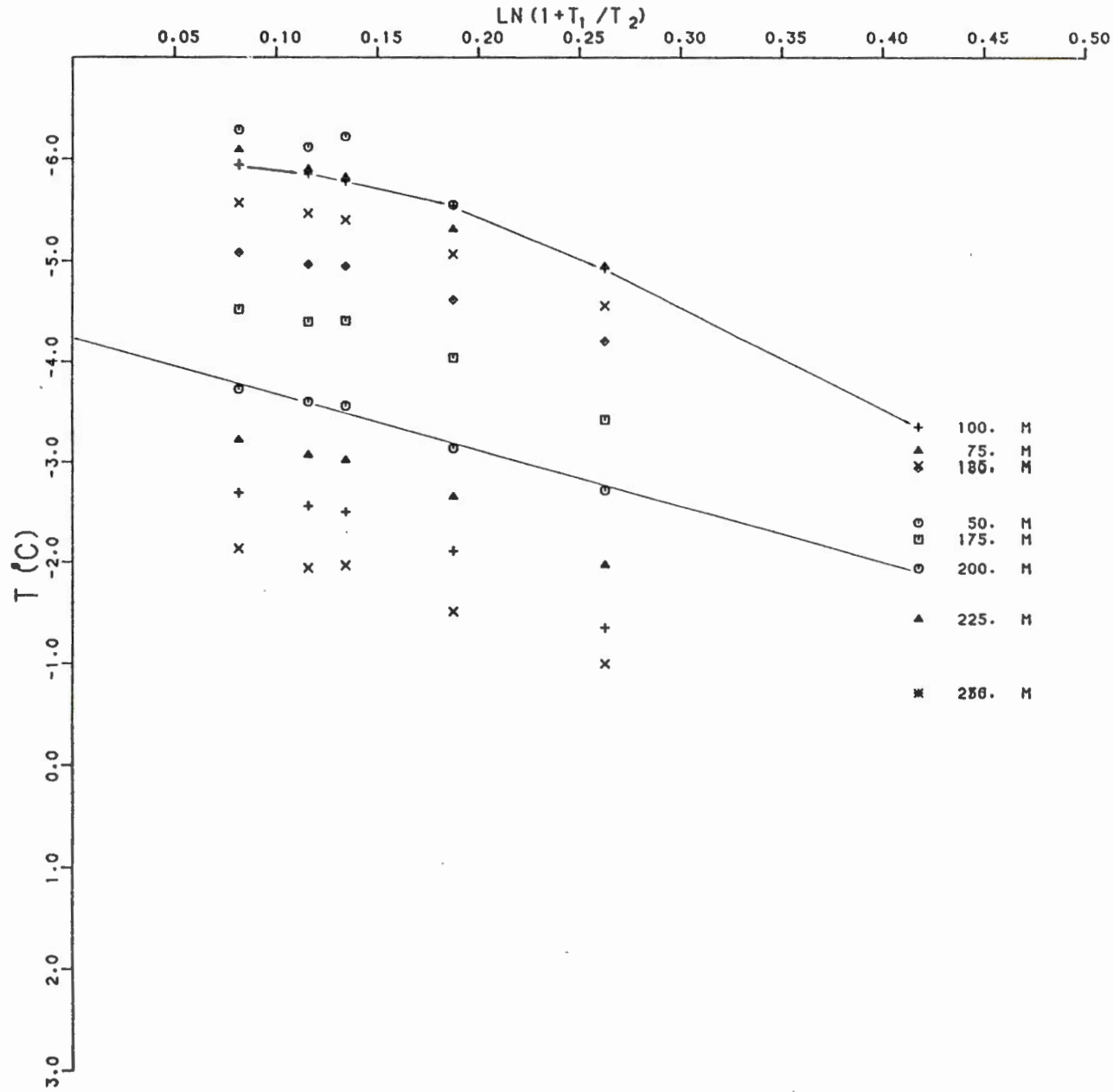


55

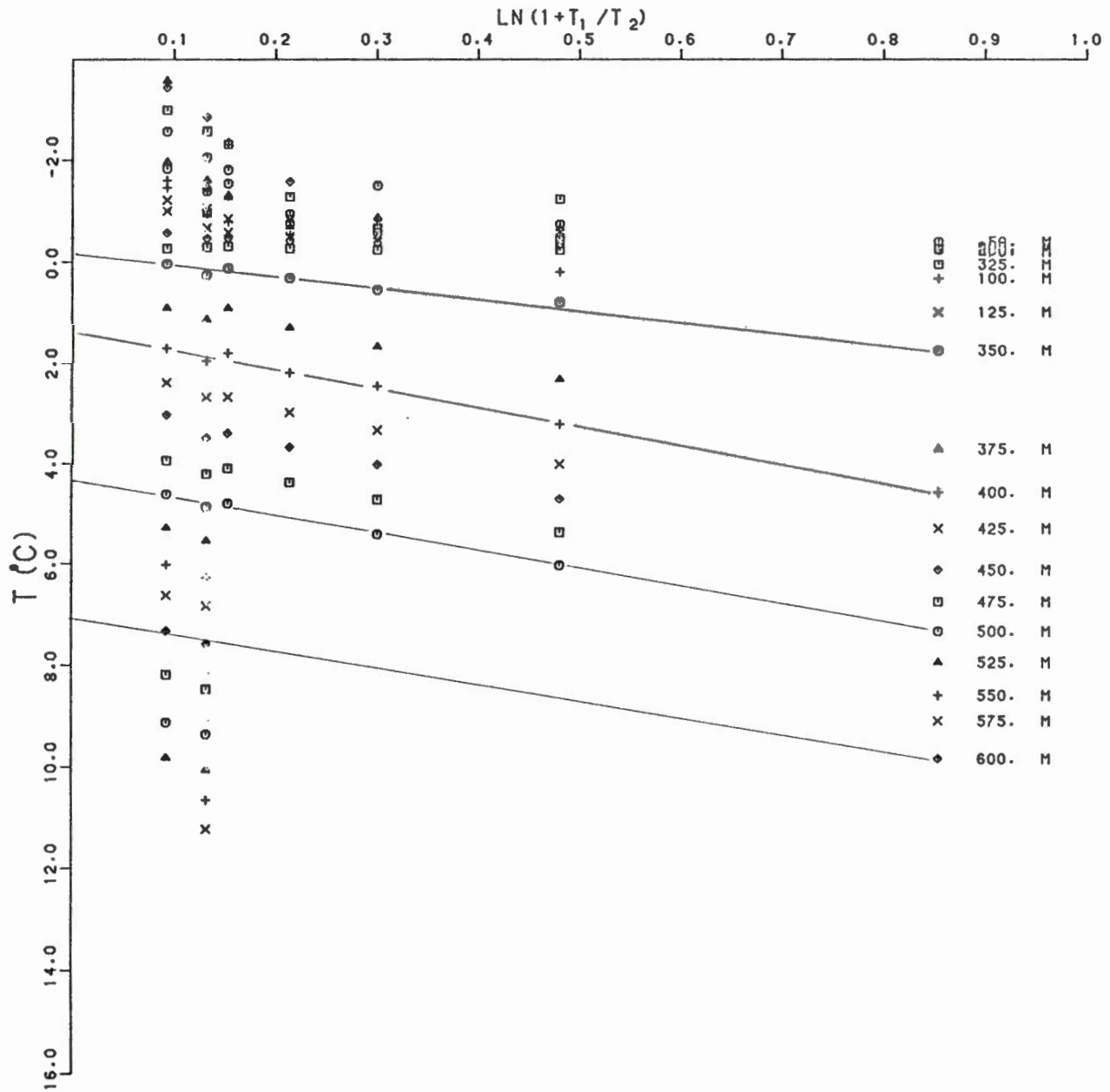




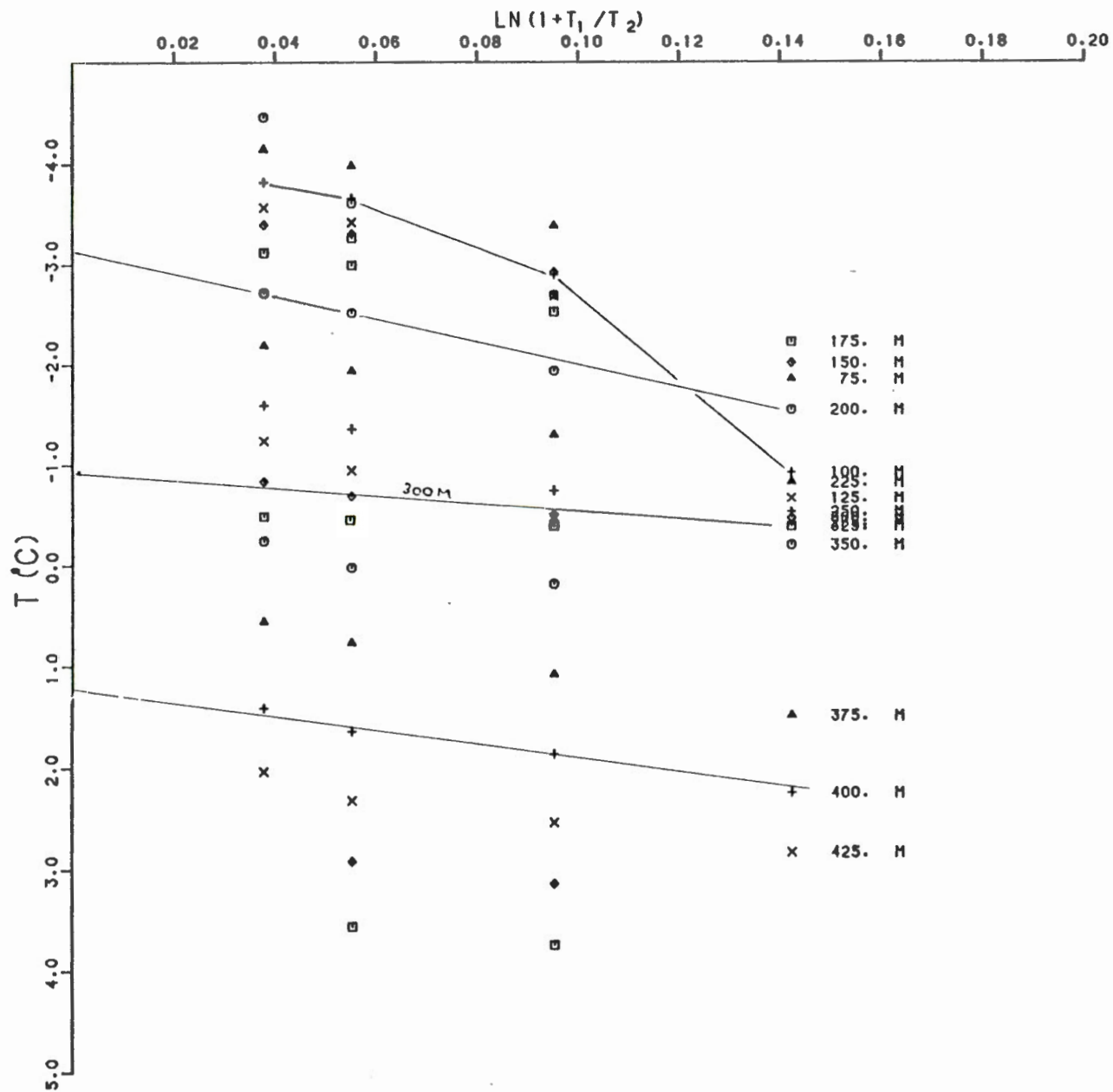
57



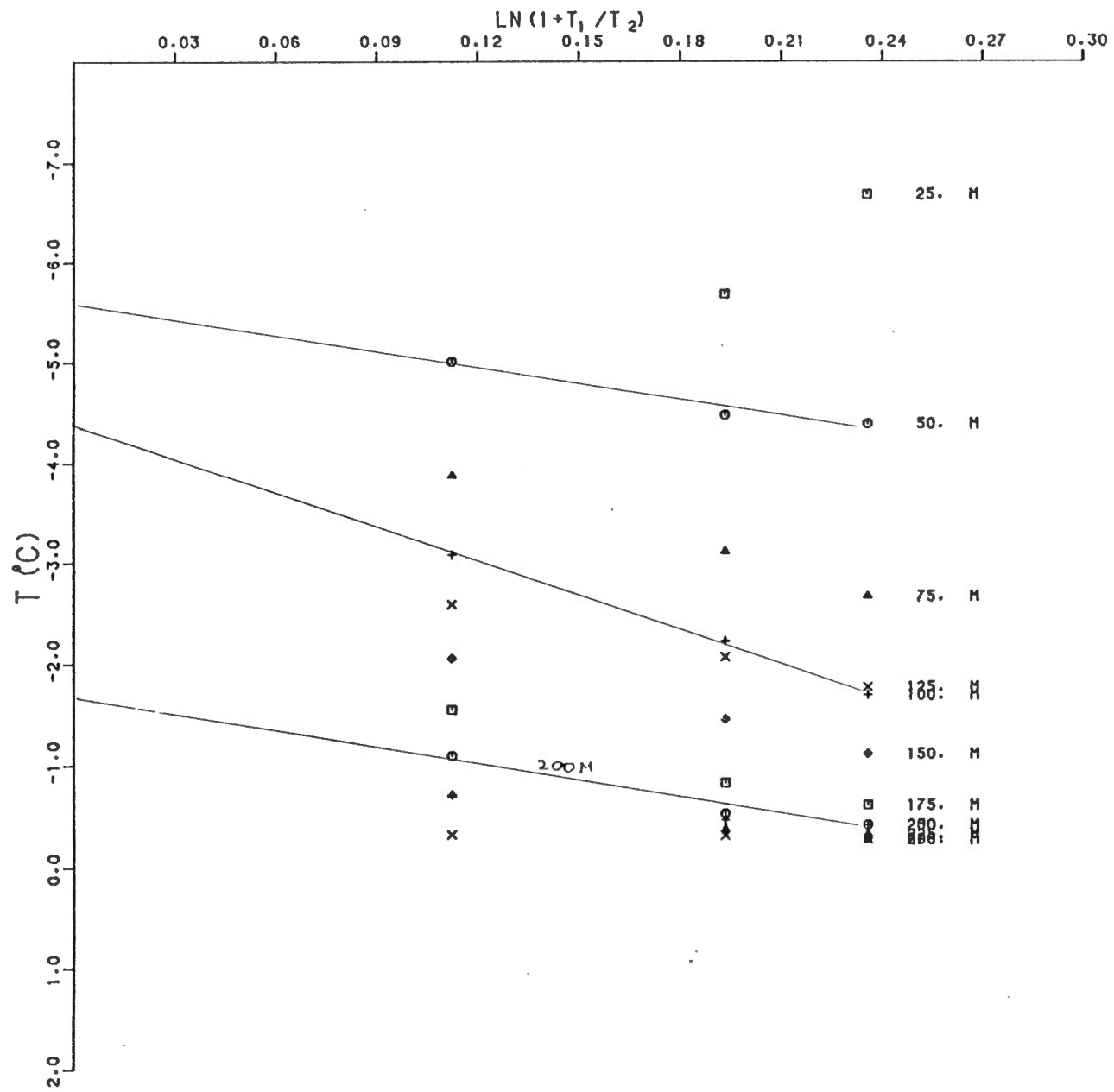
58

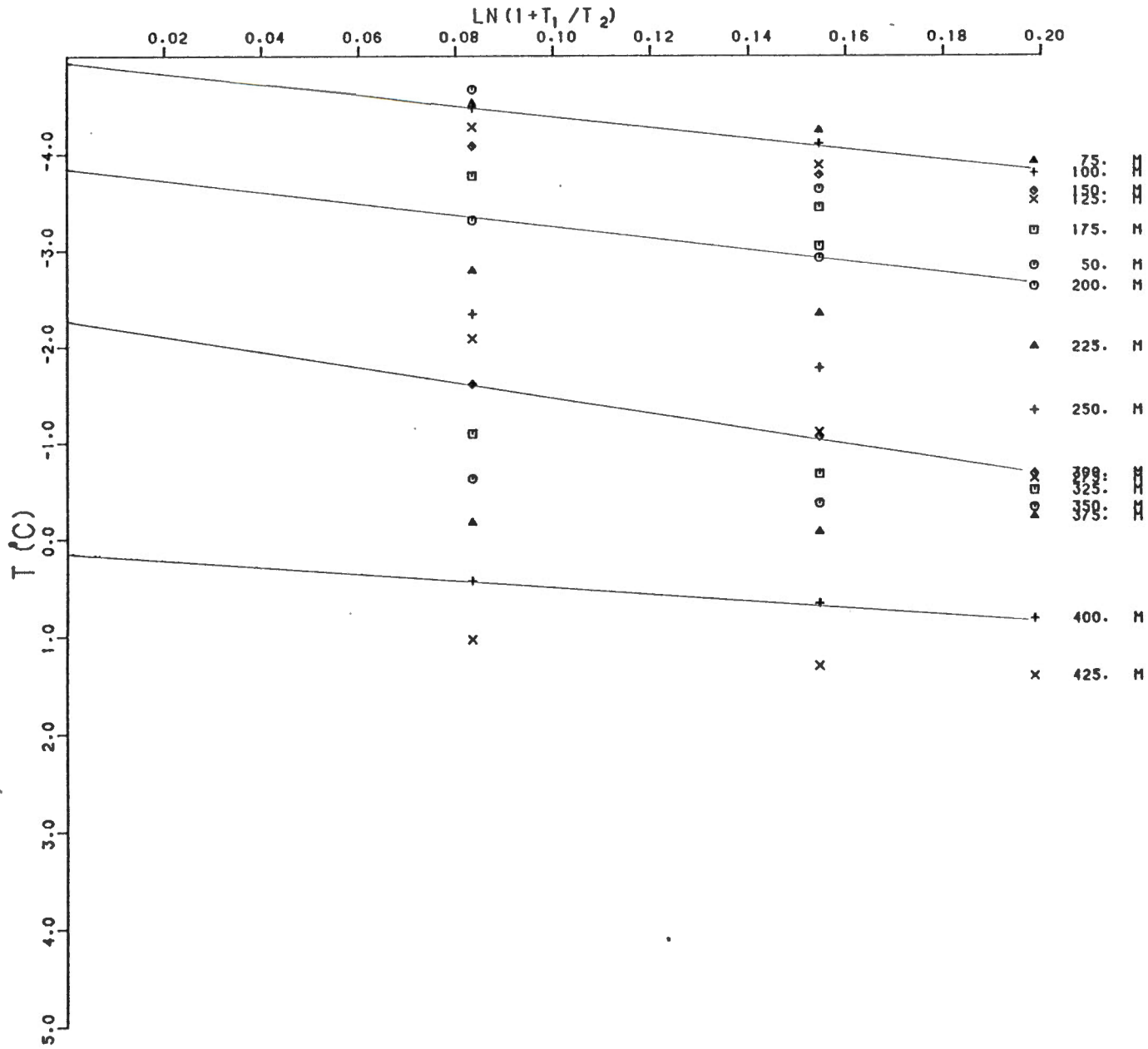


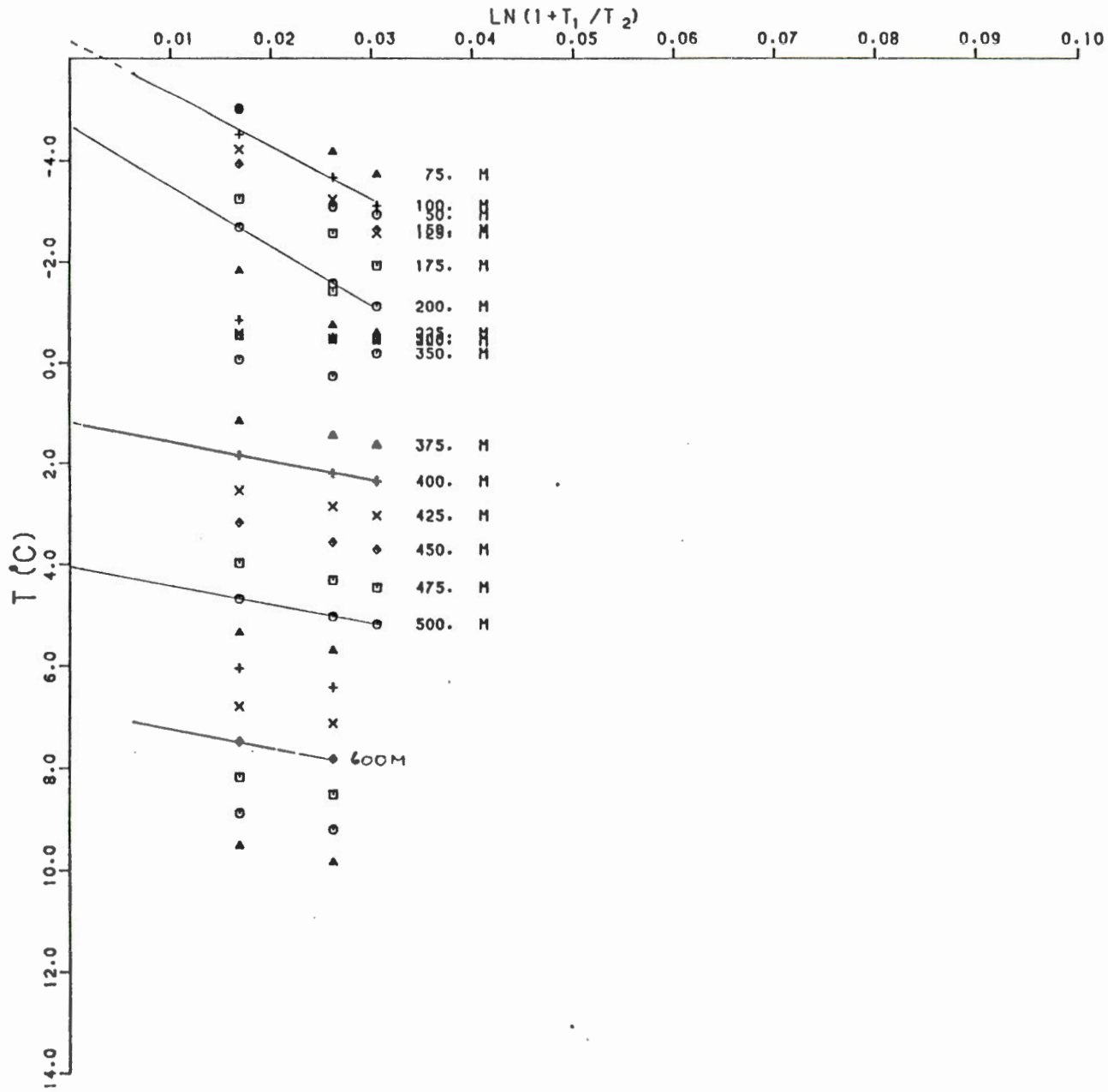
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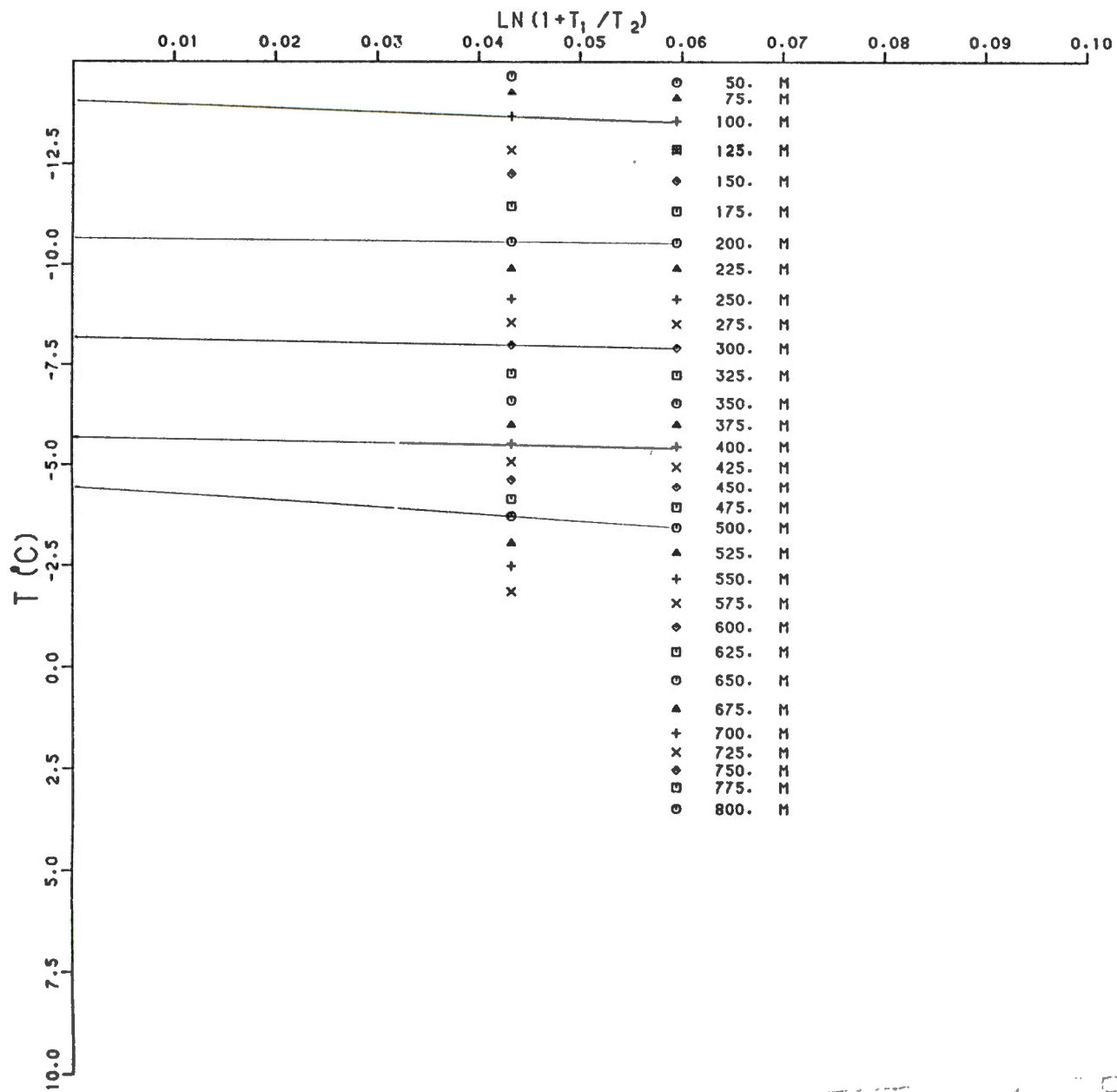
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64