WJ/GE/78/2

Natural Environment Research Council

INSTITUTE OF GEOLOGICAL SCIENCES

Catalogue of geothermal data for the land area of the United Kingdom

A. J. Burley and W. M. Edmunds

The compilation and preparation of this catalogue was supported by the Commission of the European Communities and by the Department of Energy of Her Majesty's Government

September 1978

This report has been generated from a scanned image of the document with any blank pages removed at the scanning stage.
Please be aware that the pagination and scales of diagrams or maps in the resulting report may not appear as in the original

(C) Crown copyright 1978

Copyright is reserved for the contents of this Catalogue, no part of which may be reproduced without the approval of the Controller of Her Majesty's Stationery Office.

Copies of this Catalogue are available from the Library of the Department of Energy, Thames House South, Millbank, London SW1P 4QJ, price £10 post free, remittance with order.

This page is blank

LIST OF CONTENTS

		PAGE
	Preface	3
	Abstract	4
1.	Introduction	4
2.	The UK Tectonic Map	4
3.	Temperature Data	4
4.	Heat Flow Data	9
5.	Geochemical Data	10
6.	Description of Geothermal data maps	13
7.	Sources of data	13
8.	References	14

APPENDICES

I	Notes on the Tectonic Map of the U. K. (by F. W. Dunning)	16
II	Maps of temperatures at depth intervals of 500 metres	20
III	Diagrams of selected temperature data	Appendix III and tables appear as microfiche in the front pocket
	1. Temperature - depth plots for selected areas	
	2. Temperature - depth plots for selected individual boreholes	

TABLES

I	Temperature Data
II	Heat Flow Data
III	Geochemical Data
IIIA	Site data, sample description and major element analyses
IIIB	Chemical geothermometers

TEXT FIGURES

3.1 Correction curve for the effect of borehole circulation at temperatures below 50° C

3.2 " " " " " " " " " " between 50-100° C

3.3 " " " " " " " " " " between 100-150° C

4.1 Heat flow map of the United Kingdom

4.2 Contoured heat flow map of the United Kingdom

FOLDED MAPS (IN BACK POCKET)

1. Tectonic map of Great Britain and Northern Ireland

2. Temperature data location map

3. Chemical geothermometer map: Na/K/Ca temperatures

4. Chemical geothermometer map: SiO_2 temperatures

PREFACE

Under the contracts drawn between the Commission of the European Communities, the Department of Energy of Her Majesty's Government and the Natural Environment Research Council in association with its component body, the Institute of Geological Sciences (I.G.S.), the Institute was commissioned to compile a Catalogue of data relating to the distribution of sub-surface temperature in the United Kingdom. This represents the first of a series of stages leading to the preparation of an assessment of the geothermal potential of the land area of the UK. As such, the Catalogue is a compilation of sub-surface temperatures, heat-flow measurements and of relevant hydrogeochemical data as known at June 1977. The assistance of many companies, organisations and individuals who supplied data, is gratefully acknowledged. It is intended that the Catalogue will be revised periodically and the Institute would welcome any corrections, suggestions for improved presentation and further data.

Dr. A. J. Burley and Dr. W. M. Edmunds were responsible, under the general direction of Mr. D. A. Gray, for abstracting and compiling the data with the assistance of the following members of the Applied Geophysics and Hydrogeology Units of the Institute:
Mr. K. J. Barton, Dr. A. H. Bath, Mr. J. R. P. Bennett, Mr. W. G. Burgess, Mr. S. C. Daniels, Mr. P. Haselock, Mr. M. T. Houghton, Mr. C. Pease and Mr. K. S. Wilson.

This Catalogue has been published by the Department of Energy from whom copies can be obtained.

A. W. Woodland
Director

Institute of Geological Sciences
Exhibition Road
South Kensington
London SW7 2DE

14 August 1978

Catalogue of geothermal data for the land area of the United Kingdom

by

A. J. Burley and W. M. Edmunds

ABSTRACT

A compilation of existing sub-surface temperature, heat flow and geochemical data relevant to an assessment of the geothermal potential of the land area of the UK is presented in the form of tables and maps. The methods of collection and the criteria used for selecting and classifying data are described. No attempt is made to interpret the data which are intended to form the basis for further investigation.

1 INTRODUCTION

The study was carried out between June 1976 and July 1977, information being obtained from four main sources:

(1) oil and mining organisations
(2) IGS records
(3) universities
(4) published literature

Further details of these are given in Section 7. The bulk of the data came from the oil and mining organisations and IGS records. Initial requests for data were, in some instances, followed by visits to the company concerned where the amount of data available necessitated a considerable amount of time to abstract it. The data have been converted to a standard computer readable format so that geothermal gradients and associated values could be computed automatically. The results are presented in the microfiches as 3 Tables: Table I lists measured temperatures, Table II heat flow data and Table III hydrogeochemical data. Three folded maps (numbers 2, 3 and 4) at a scale of 1:1 000 000 show the locations and type of data listed in the tables. These maps are described in Section 6. Methods of treating the data and their limitations are described in Sections 3, 4 and 5. No attempt at interpretation of the results is included in this Catalogue.

2 THE UK TECTONIC MAP

A copy of this map covering Great Britain and Northern Ireland is included as Map 1. It shows among other things the outcrop and age of the principal igneous intrusions, together with the shape of the main Mesozoic sedimentary basins. Since this information is directly relevant to the geothermal potential of the country, it has been used to derive the essential tectonic features on which the locations of temperature and geochemical data are displayed (maps 2, 3 and 4). The contours showing approximate depths to the base of the Permian in Northern Ireland have been derived from borehole and gravity data (J. R. P. Bennett, private communication). An account of the Tectonics of the British Isles by F. W. Dunning is included as Appendix I to this Report.

3 TEMPERATURE DATA

3.1 Introduction

During the last 150 years a large number of temperature measurements of varying quality has been made in boreholes and mines in the UK. Only in a relatively few cases have these been measurements of the equilibrium temperature of the rock. Most of these measurements were made in boreholes during short pauses in drilling, when the disturbing effects of mud circulation are still significant. These effects are usually minimal at the bottom of a hole, and for this reason, non-equilibrium borehole temperatures (excluding those measured during drill stem tests) listed in Table I are restricted to 'bottom hole temperatures' (B. H. T.) measured with maximum thermometers, or to values recorded on temperature logs at the bottom of a hole. With the exception of equilibrium measurements, only temperature values recorded at depths of 150 metres or more are included in the table.

3.2 Categories of data

Seven categories are distinguished:

(i) Bottom hole temperatures (BHT in Table I). These are recorded during routine geophysical logging of most oil and gas exploration holes, and

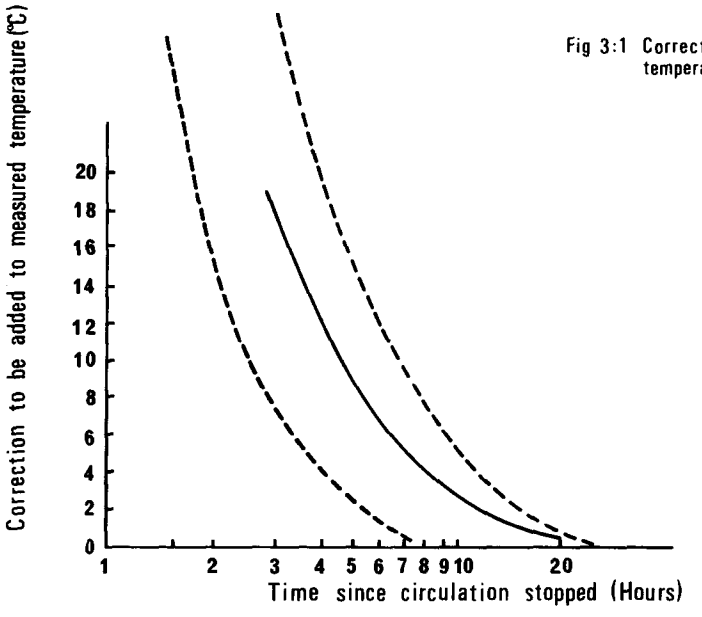


Fig 3:1 Correction curve for the effect of borehole circulation at temperatures below 50°C

Temperatures < 50° C
——— Correction to be applied
----- Indicates range of uncertainty (After Haenel 1977)

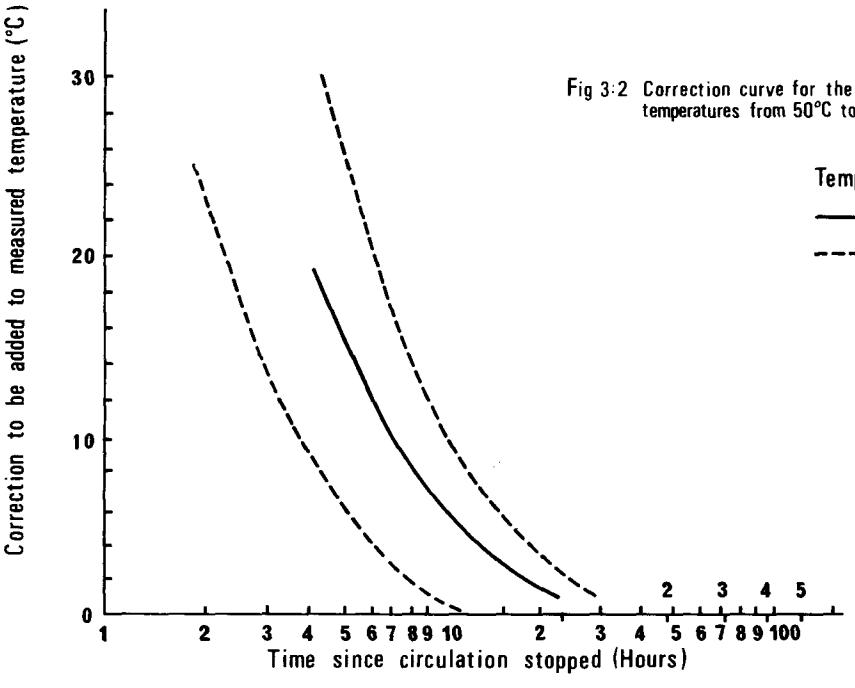


Fig 3:2 Correction curve for the effect of borehole circulation at temperatures from 50°C to 100°C

Temperatures 50–100°C
——— Correction to be applied
---- Indicates range of uncertainty (After Haenel 1977)

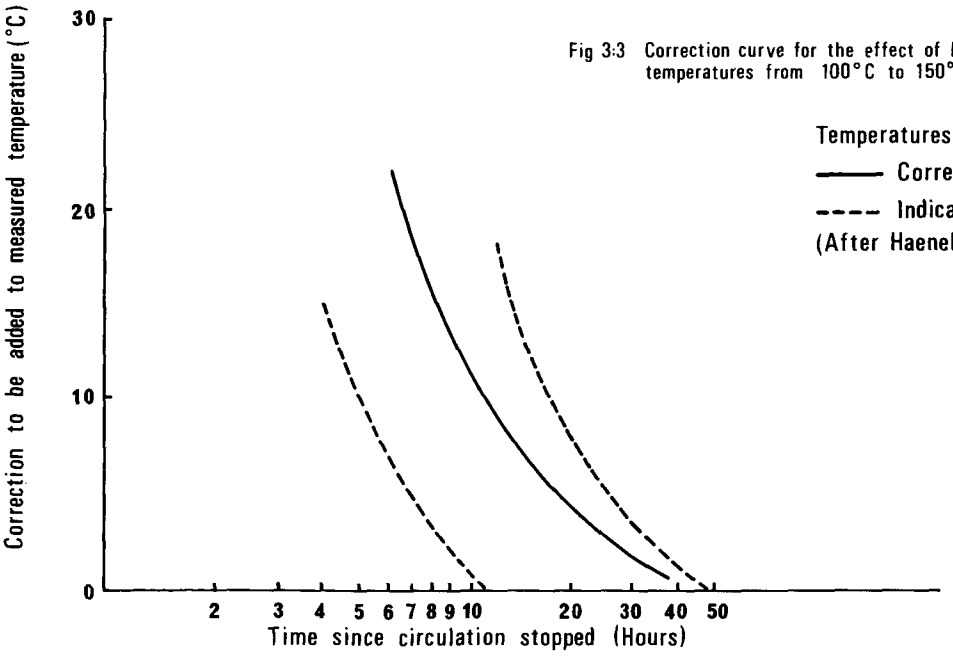


Fig 3:3 Correction curve for the effect of borehole circulation at temperatures from 100°C to 150°C

Temperatures 100–150° C
——— Correction to be applied
---- Indicates range of uncertainty (After Haenel 1977)

in certain boreholes drilled for other purposes. The type of thermometer used registers only the maximum temperature encountered, which is usually that at the bottom of the hole. The value is generally lower than the true equilibrium strata temperature and leads to an underestimate of the undisturbed temperature gradient. Thus individual low temperature gradients calculated from these measurements may have little significance. However, a high calculated gradient should be an indication of a high equilibrium temperature.

Where known, the time between stopping mud circulation and the temperature measurement is quoted in the table. Various estimates have been made for the time required for the bottom hole temperature to reach equilibrium (eg Mullins and Hinsley (1957) consider that the measured temperature is within $\frac{1}{2}$°C after 8 hours). Approximate corrections for the effects of circulation can be made, as described in Section 3.4 but unless measurements are made over several hours, the corrections are not likely to be very reliable, as there are many factors varying from one borehole to another which affect the rate at which equilibrium is reached.

(ii) Temperature logs (LOG in Table I). Temperature profiles of boreholes are sometimes recorded during geophysical logging operations, usually long before the mud column has reached thermal equilibrium. Since the departure from equilibrium is less at the bottom of the hole than elsewhere, only bottom hole temperatures have been abstracted from logs for presentation in the table. Bottom hole temperatures obtained from temperature logs are identified separately because they are considered more reliable than those measured with a maximum thermometer. There is certainty that the measurement really is at the bottom of the hole, even if there is a hotter zone higher up, and more care is likely to be taken to ensure accurate calibration of the thermometer than in the case of maximum thermometer measurements.

(iii) Mine water temperatures (MWT in Table I). All measurements listed in this category were of the temperatures of small flows of water issuing from rocks in Cornish mines in the last century, as reported by Henwood (1871).

(iv) Coalfield measurements (CFM in Table I). These include systematic measurements made by Graham (1922), Jones (1924, 1926) and certain measurements quoted in British Association Reports (1870, 1871). Temperature measurements were made at the end of horizontal boreholes specially drilled in coal mines. Considerable efforts were made to ensure that the values obtained were unaffected by mine ventilation systems.

(v) Virgin strata temperatures (VST in Table I). In this catalogue this term is used to describe more recent accurate measurements made by the National Coal Board in coal mines. Temperatures in specially drilled boreholes are monitored over periods long enough to ensure that true 'virgin strata' temperatures can be derived. The method of measurement is described by Cooper and Jones (1959).

(vi) Drill stem tests (DST in Table I). These are temperature measurements made during drill stem tests in hydrocarbon or groundwater boreholes. They should be unaffected by the temperature disturbance caused by mud circulation in the hole. Pumped water temperatures measured in certain Water Board boreholes are also included in this category.

(vii) Equilibrium measurements (EQM). All measurements made specifically for the purposes of heat flow calculation are included in this category. In many cases the measurements quoted are made in specially prepared boreholes some months, or years after they have been drilled.

3.3 Validity of data

In terms of measurement of equilibrium temperature undisturbed by artificial influences, the following order of preference is suggested: 1. Equilibrium measurements. 2. Drill stem test measurements. 3. 'Virgin strata temperatures' and Coalfield measurements. 4. Mine water temperatures. 5. 'Log' temperatures and 'Bottom Hole' temperatures. Those 'log' or 'bottom hole' temperatures which were measured more than 8 hours after circulation was stopped may have more significance than some of the measurements rated more highly in this list, but values recorded at unspecified times are of limited value, except to indicate above average gradients.

3.4 Corrections for borehole circulation effects

The method of correction for the effects of circulation on 'bottom hole' and 'log' temperatures suggested by Dr R. Haenel has been applied and included in Table I for each case where the time since termination of circulation is known. The corrections, which vary according to the temperature range, are based on a variety of actual cases. The curves are shown in figs 3.1 to 3.3: the wide range of uncertainly illustrates the difficulty in estimating a correction which covers various drilling and borehole conditions. They appear most suitable for boreholes over 500m deep and for 'times since circulation' of over 6 hours.

3.5 Calculation of temperature gradients: surface temperatures

In Table I, the mean temperature gradient between the surface and the depth of the measurement is presented. For this, a mean surface ground temperature is required which is obtained by adding 1°C to the mean air temperature. Mean air temperatures were calculated from a Meteorological Office map of mean daily temperatures at sea level over the period 1941-1970 by subtracting a correction of 6° C per kilometre for the topographic elevation of the borehole above this level. Exceptions to this are boreholes in which heat flow has been measured, and where more accurate local surface temperatures have been calculated by extrapolation. Most of the surface temperatures derived from heat flow calculations agree with temperatures derived from the Meteorological Office map to $\pm$ 0.5°C. However, any temperature gradient calculated from a shallow temperature measurement should

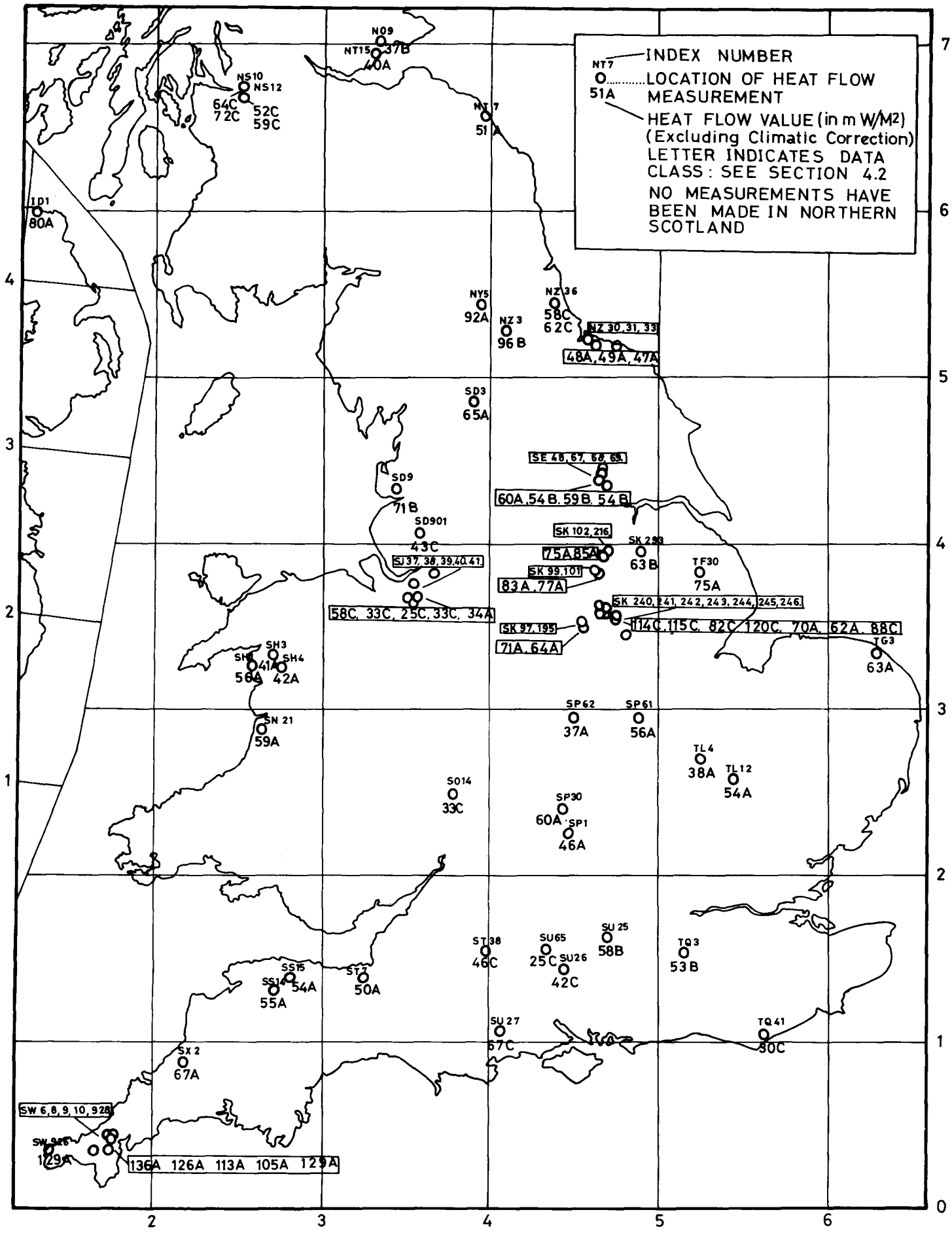


FIG. 4.1 MAP OF UNITED KINGDOM, HEAT FLOW DATA

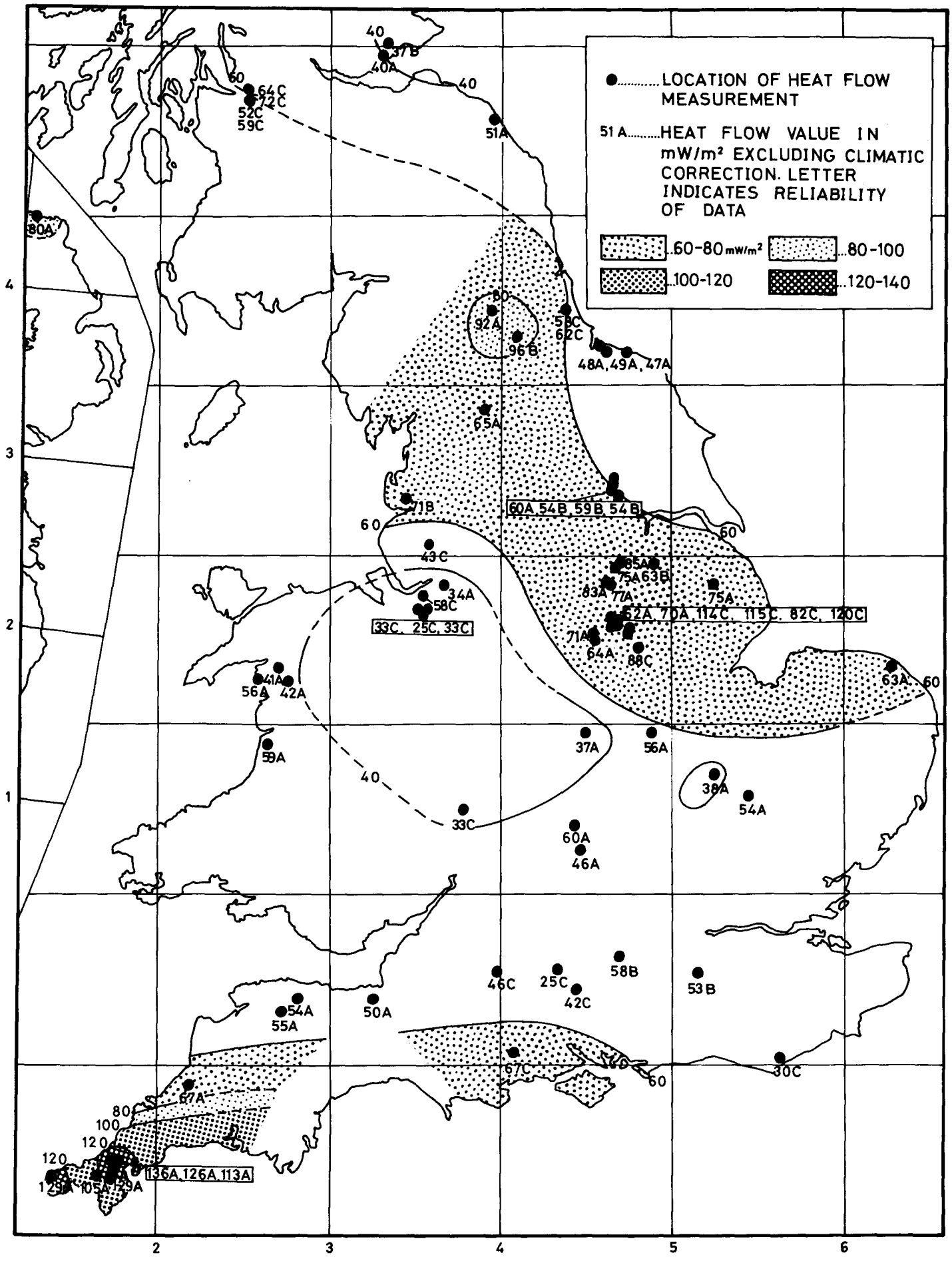


FIG. 4.2 UNITED KINGDOM HEAT FLOW DATA

(contoured and ornamented on the basis of data available at June 1977)

be treated with caution: at a depth of 150 metres, an error of 0.5° C in the estimated surface temperature gives rise to a gradient error of 3.3° C/kilometre.

4 HEAT FLOW DATA

4.1 Introduction

These are presented in Table II and figs 4.1 and 4.2 Information has been obtained from published accounts and from Dr E. R. Oxburgh and Dr S. W. Richardson (Oxford University) and Mr J. Wheildon (Imperial College, London) who kindly supplied unpublished data.

In the simplest case of uniform temperature gradient and conductivity, the heat flow is the product of these two quantities provided the flow is purely conductive and no heat production occurs. In boreholes penetrating strata which contain a variety of lithological types neither quantity is likely to be uniform and a method such as that described by Bullard (1939) has to be used to calculate the heat flow. The borehole column is divided into a series of discrete uniform intervals for each of which a thermal resistance is calculated. By plotting temperature T(z) (at depth z) against the integrated thermal resistance to that depth, the value of the heat flow q is given by the gradient in the equation:

$$T(z) = T(o) + q \sum_i R_i D_i$$

where T(o) is the extrapolated surface temperature, R_i the thermal resistance of the i the interval and D_i its thickness. The gradient is normally estimated by applying a 'least squares' linear fit to the data.

Various corrections can be applied to give an equilibrium value unaffected by near surface effects. Such a value may be assumed to be uniform with depth (neglecting heat production from radioactivity), and given sufficient stratigraphic and conductivity information, it can be used to estimate equilibrium temperatures at levels deeper than those at which temperatures have been measured. The corrections most commonly applied are those for topographic effects (Jaeger, 1965) and for the cooling effect of glaciation in the past (Birch, 1948), known often as the 'climatic correction'. Corrections for the disturbing effects of water circulation in the strata are virtually impossible to make, and if these effects are significant the calculated heat flow is of little value for the present purpose.

4.2 Categories of data

Following a system suggested by Lee and Uyeda (1965, p. 92); three categories of heat flow data are distinguished:

Category A data are derived from 'good' measurements, where temperature and conductivity are well measured and disturbances are minor.

Category B data are 'fair' because conductivity may have been measured from rock samples nearby and/or some disturbances may have affected the results. Category C data are 'questionable'; they may have been considered unreliable by the original investigators, may lack conductivity measurements, and/or disturbances may have greatly affected the results. Where data have been quoted by Lee and Uyeda, the categories assigned by them have been used in Table II. In the case of heat flow values supplied by Mr Wheildon and Dr Oxburgh they have assigned the categories.

4.3 Notes on the heat flow measurements of individual investigators

BENFIELD (1939): Grid squares NO, NS, SJ, TQ.

Temperature: maximum mercury thermometers were used. Only the temperatures at Hankham were measured by Benfield: temperatures in the other boreholes were measured by several different workers.

Conductivity: measured with the divided bar apparatus. He measured samples from Holford, Hankham and Boreland, and used the Boreland conductivity values for rocks with similar lithologies at the nearby Balfour hole, and at the more distant South Balgray and Blythswood holes.

Heat flow: calculated by the Bullard (1939) integrated thermal resistance method.

ANDERSON (1940): Grid squares NO, NS, NT, NZ, SD

Temperature: maximum mercury thermometers were used. In the Balfour and Boreland holes temperatures were measured by Anderson and the remainder are values which were first published in British Association Reports in 1870, 1871 and 1873.

Conductivity: measured by Benfield (1939) using a divided bar apparatus, and supplemented by data from British Association Reports in 1880 and 1882. Of the boreholes listed only samples from Boreland were used for conductivity measurements. At South Balgray, Balfour and Blythswood, Anderson distinguished between bituminous and non-bituminous shale ('blaes'), assigning them different conductivities and hence obtaining different values of heat flow from those given by Benfield.

Heat flow: calculated by the Bullard (1939) integrated thermal resistance method.

BULLARD and NIBLETT (1951): Grid squares NZ, SK

Temperature: 3 maximum mercury thermometers were used and the readings averaged. Temperatures were measured a few years after drilling in each case.

Conductivity: measured with the divided bar apparatus. A total of 54 measurements were made which included a few measurements on samples of similar formations from other boreholes by other authors.

Heat flow: calculated by the Bullard (1939) integrated thermal resistance method. The authors suggested that the four Eakring measurements may have been disturbed by movement of groundwater.

MULLINS and HINSLEY (1957): Grid square SK

Temperature: measured at the bottom of the hole with maximum thermometers during weekend breaks in drilling. Tests in one of the holes (Ranby Camp) up to 82 days after drilling had ceased showed that these measurements gave readings within 0.5° C of the equilibrium temperature.

Conductivity: measured by a method not specified

in the publication on a total of 26 samples from the 6 boreholes.
Heat flow: details of the calculation are not given.
BOTT and others (1972): Grid squares NY, NZ
Temperature: At Rookhope, thermistor probes were used to measure temperatures at intervals after drilling of up to 3 years. At Woodland, bottom-hole measurements were made with a thermistor after breaks in drilling of not less than 24 hours. The temperatures quoted for South Hetton are those which were reported by the British Association Committee on Underground Temperatures (1873 and 1874) for which a maximum thermometer was used.
Conductivity: Samples from Rookhope and Woodland were measured with the divided bar apparatus: no suitable sample of mudstone or shale was available from the Woodland hole so the value assigned by Bullard and Niblett (1951) to Millstone Grit shales was included. In the heat flow calculation for South Hetton, conductivity values for Coal Measures lithologies given by Bullard and Niblett (1951) were used.
Heat flow: For the Rookhope calculation the temperature data obtained from the granite section of the hole were fitted to obtain a linear gradient by the least squares method and subtracting a topographic correction of 1.3° C/km.
Because of the uniform nature of the granite the heat flow is simply the product of this gradient and the mean conductivity. The heat flow value is considered accurate to ± 2% and is unlikely to be affected by underground water flow.

The lithologies at Woodland and South Hetton are complex, so Bullard's resistance integral method was used to calculate the heat flow. At South Hetton, the depth interval chosen for the calculation was different from that used by Anderson (1940) in order to exclude possible disturbance of the geothermal gradient by water flow in the Yellow Sands aquifer at the base of the Permian.
CHADWICK (1956): Grid square TL
Temperature: measured by thermistor probes
Conductivity: measured using a divided bar apparatus
Heat flow: method of calculation is not specified
TAMMEMAGI and WHEILDON (1974, 1977):
Grid squares ID, NT, SS, ST, SW, SX, TL, TQ
Temperature: measured by thermistor probes
Conductivity: measured using a divided bar apparatus
Heat flow: where there is little variation of conductivity and temperature gradient with depth (Wheal Jane, Honeymead, South Molton, Longdowns, Geevor, South Crofty) heat flow is calculated by multiplying the geothermal gradient (estimated by a 'least squares' method) by the harmonic mean of the conductivities. In cases where lithology varies with depth the Bullard (1939) method is used. Topographic corrections have been included where the authors considered that they were significant. Data on certain holes (Portmore, Marshall Meadows, Currypool Farm, Longdowns, Huntingdon and Fetcham Mill) were supplied directly by Mr J. Wheildon.
OXBURGH and RICHARDSON (Personal communication): Grid squares NZ, SD, SE, SH, SJ, SK, SN, SO, SP, SU, ST, TF, TG
Temperature: measured by thermistor probes
Conductivity: measured using a divided bar apparatus, except in those holes indicated in the table where estimated conductivities were used.

5 GEOCHEMICAL DATA

5.1 Introduction

The primary objective in compiling the geochemical table has been to provide provisional data relative to groundwaters derived from consolidated aquifers in the United Kingdom which indicate by the use of chemical geothermometers the location of possibly anomalous formation temperatures. This is a preliminary nationwide search which precedes a more detailed investigation of the derived temperatures in a regional or local context during the forthcoming study of individual sedimentary basins and igneous bodies. Whilst some anomalous temperatures have been identified at this stage, it is stressed that geochemical as opposed to thermal anomalies may have been highlighted, whose explanation is beyond the terms of reference of this report.

A secondary purpose of the geochemical investigation is to present a concise listing of chemical data of representative formation waters which might be considered as potential low enthalpy reservoir fluids. The economic assessment of individual basins, to be carried out in future studies will depend to a great extent on the geochemical conditions obtaining.

5.2 Samples types

The majority of analyses refer to samples from boreholes deeper than 150 m, obtained by pumping, depth sampling or drill stem testing; a few samples are pore fluids. Among the shallow groundwaters included are thermal mine drainage waters from metalliferous mines in Cornwall and thermal springs at Bath, Bristol and in Derbyshire. The origin of each sample is indicated by code in Table III.

5.3 Data Limitations and reliability

Limitations on the use of the data relate to the age of the samples and the analyses, the range in analytical methods, the range in source laboratory, sample storage, and errors imposed during data transfer. Additional limitations are imposed relating to the exact provenance of the groundwater, the hydrology and the geochemistry controlling the water composition.

Where possible only analyses obtained during the past ten years are included, although to complete the regional cover, or to represent mining areas which have subsequently been dewatered, for example, a certain amount of historical data has been included. Dates of analyses are shown in Table III and it should be noted that the data cover a time span of at least 70 years; comparison of successive results from the same area, therefore, may be misleading due to either natural or artificial changes in water chemistry over this time period.

The chemical analyses have been converted for the purposes of this report to a unified format obscuring a number of inevitable inconsistencies arising from the constraints described above. Considerable effort has been taken to check the consistency of the data during transfer to the Table. All results have been checked for ionic balance by computer programme. This has enabled some transfer errors to be identified and some grossly erroneous results to be omitted. Total rejection of analyses with serious ionic imbalance has not been possible, however, due to the inclusion of many partial analyses with relevant Na, K, Ca or SiO_2 results.

Hydrogeological information relating to the groundwater is absent in some instances and uncertain in others. The exact depth and formation of origin is often incompletely known. Although it is considered that controlled sampling is essential for geothermometry work, it is likely that most analyses represented do not reflect in-situ conditions and are neither filtered nor stabilised with acid; the possibility that water-sediment suspensions may have stood for long periods prior to filtration or analysis could have affected the cation composition or SiO_2 values considerably, either by mineral precipitation or exchange reactions.

It is stressed, therefore, that the data in Table IIIA should not be used for other purposes, without consideration of these limitations.

5.4 Geothermometry

For geothermometry calculations only those analyses with Na + K $\pm$ Ca and/or SiO_2 could be used. Although Na/K/Ca and Na/K temperatures have been derived for some 90% of the data quoted, well below half of the results quote SiO_2. Some laboratories have never included SiO_2 or K in their routine work and others it is suspected have derived Na or K by difference - i.e. by completing the ionic balance of the analysis.

Many of the deeper formation waters in the UK are saline or hypersaline. In these conditions it is considered most unlikely that feldspar dissolution is the dominant control in cation composition. Molarity ratios have been used for calculation of the Na/K/Ca temperatures, thus minimising errors arising from reduced ion activities in saline waters. Geothermometer temperatures have been calculated for all waters using the IGS computer program, although for map presentation of the cation geothermometer temperatures, those waters with total mineralisation greater than 6000 mg/l have not been assigned temperatures. SiO_2 geothermometers are taken to be independent of total mineralisation of the water, although this assumption may not hold for some hypersaline solutions.

The equations for geothermometers used in this report are given below. The source of all equations is Truesdell (1975) with the exception of amorphous silica and cristobalite (Kharaka, 1973). All silica geothermometers have been computed assuming conductive cooling; the Na/K values have been calculated using the White-Ellis curve (White, 1970).

Equations for geothermometers used in Table IIIB

Silica geothermometers (SiO_2 in mg/l)

Quartz (all conductive cooling $<95^\circ C$)

$$T^\circ C = \frac{1315}{5.205 - \log SiO_2} - 273.15$$

Amorphous silica

$$T^\circ C = \frac{731}{4.52 - \log SiO_2} - 273.15$$

Chalcedony

$$T^\circ C = \frac{1015.1}{4.655 - \log SiO_2} - 273.15$$

Cristobalite

$$T^\circ C = \frac{1000}{4.78 - \log SiO_2} - 273.15$$

Cation geothermometers

Na/K/Ca (moles/litre)

$$T^\circ C = \frac{1647}{\log(Na/K) + B\log(\sqrt{Ca/Na}) + 2.24} - 273.15$$

$B = {}^4/_3$ for $\sqrt{Ca/Na} > 1$ and $T \lesssim 100^\circ C$

$B = {}^1/_3$ for $\sqrt{Ca/Na} < 1$ or $T_{4/3} > 100^\circ C$

Na/K (mg/l)

$$T^\circ C = \frac{855.6}{\log(Na/K) + 0.8573} - 273.15$$

The Na/K/Ca results are presented in Map No. 3. Distinction has been made between temperature at intervals of 25 degrees Centigrade up to 100° C and a further distinction has been made as to the predominant age of formation from which the water is thought to originate. Only the quartz temperatures out of the four silica geothermometers have been plotted in Map No. 4. Until more rigorous assessments of the mineralogy of the aquifer system can be made it is difficult to identify the controlling silica mineral phase - this is particularly difficult for example with some carbonate aquifers where minor quartz, chalcedony or cristobalite may be controlling silica solubility. Thus the silica results should be considered in a relative rather than an absolute sense.

5.5 Mixing of groundwaters

Temperatures derived by geothermometry can only be accepted as accurate if mixing of cooler shallow groundwater has not occurred. It is certain that some of the analyses in Table III represent mixed groundwaters and therefore that the implied temperatures will be minimum temperatures. The only documented case of dilution and mixing of thermal waters in the UK

TABLE 6.1. LIST OF INDEX NUMBERS GROUPED UNDER A SINGLE SYMBOL ON THE TEMPERATURE DATA LOCATION MAP

IJ	5	2,3,5
NS	10	48,10
NS	43	9,43,901
NT	5	5,11,12
NT	15	14,15,16,17,18
NT	27	26,27
NY	3	3,16,17
NZ	27	14,15,16,17,18,19,20,21,22,26,27, 29,34
NZ	33	1,30,33
SD	8	8,18,19
SE	21	21,22,901,907,908
SE	30	14,30
SE	32	17,32
SE	33	33,47
SE	57	57,58
SE	61	5,6,7,8,9,10,61,62
SE	904	902,903,904,905,906,909,914,916
SE	911	910,913,911
SJ	26	23,24,25,26,28,30,31,34,36
SJ	39	38,39,40
SJ	902	901,902,908,909,910
SJ	906	32,33,35,903,904,905,906,907
SJ	913	913,914
SJ	915	911,912,915,916,917
SK	33	32,33,34,104,123,125,126,127,128, 129,130,131,132,133,134,135,136,137, 138,139,140,141,171,173,177,189,190, 215,226,234,235,206,157,902
SK	62	61,62
SK	63	63,176,224,230,271
SK	64	64,205,901,912,913,914
SK	69	59,69,74,187,196,251,252,253,254, 267,272
SK	78	12,13,14,15,16,17,18,19,20,21,23, 24,25,26,27,28,29,30,31,41,53,54, 55,56,57,58,66,77,78,275,276,277
SK	82	82,200
SK	84	83,84,85,175,193,203
SK	97	97,185,192,195,211,222,906,907,908
SK	99	79,80,81,99,101,103,212
SK	105	911,105,142
SK	152	146,151,152,165,166,167,168,169, 170,202,220,237,255
SK	154	154,155,156
SK	160	160,161,162,163,164
SK	174	112,174
SK	198	181,182,198,201,204,214,227,231
SK	216	67,93,102,216,232,905
SK	238	178,180,184,186,199,225,233,238,208
SK	239	75,239,283
SK	241	143,144,145,153,207,210,213,217,218, 240,241,242,243,244
SK	245	229,245
SK	270	269,270
SK	293	35,36,37,39,40,147,148,149,150,293
SK	909	76,95,179,903,904,909,910
SN	10	10,11,12
SN	903	902,903
SN	904	7,8,9,13,14,15,16,17,18,19,20
SP	7	2,3,7
SP	11	10,11
SP	29	29,56,57
SP	60	58,59,60
SS	3	3,4,5
SS	11	10,11,12,13
SS	901	9,901,902
SS	905	904,905
SS	906	903,906
ST	901	17,901
ST	903	5,903,904
ST	908	905,907,908
SU	1	1,2,4,5
SU	25	11,25
SU	27	18,27
SU	58	58,59
SW	7	6,7,8,9,922,923
SW	913	907,913
SW	917	915,916,917
SW	925	1,901,918,919,920,925
SW	926	908,909,910,926
SW	928	902,903,904,905,911,912,914,921,928, 11,12
SY	6	6,19,20
SY	15	8,12,14,15,16
SY	18	3,7,18
SY	22	21,22
SY	23	17,23
SZ	2	1,2
TA	4	4,8
TA	6	6,13
TQ	14	14,15,16,17
TQ	41	21,41

is for springs derived from the Carboniferous Limestone in Derbyshire (Edmunds, 1971) where tritium was used to identify the recent components in the groundwater which contributed to lowering of temperature.

It has not been possible to correct any temperatures for mixing in the present study, since to do so would require a thorough knowledge of the hydrogeological regime and geochemistry of any given area.

6 DESCRIPTION OF GEOTHERMAL DATA MAPS (folded maps)

6.1 The temperature data location map

This map shows the locations for which temperature data are listed in Table I. The map is at a scale of 1:1 000 000 and is divided into 100-kilometre squares, each of which is allocated a two letter code according to the system of the British National Grid. Each symbol represents one or more locations at which temperatures have been measured.

The figure above each symbol is the index number of that location within the particular 100-kilometre square. Where a number of locations are close together only one symbol is used to represent them, but the number of locations is then shown by the figure to the right of the symbol: details of this are given in Table 6.1. The figure below the symbol shows the mean temperature gradient between the surface and the deepest reading, except where more than one location or type of temperature measurement is represented. In those cases the gradient indicated by the most reliable measurement is given, based on the order of priorities listed in section 3.3, viz.: 1) equilibrium measurement 2) drill stem test measurement 3) virgin strata or coalfield measurement 4) mine water measurement 5) log or 'bottom hole' measurement, preference being given firstly to those with quoted 'times since circulation' of greater than 5 hours, secondly to the deepest measurement.

Temperature gradients quoted on this map are not directly comparable, as they are derived from data of widely varying quality measured over a wide range of depths. Reference should be made to Table I for details.

6.2 Chemical geothermometer map: Na/K/Ca Temperatures

Only those groundwaters of salinity less than 6000 mg/l are distinguished according to temperature; more highly saline groundwaters for which Na/K/Ca temperatures appear in the text are identified by location only. All groundwaters are distinguished as to the likely formation of origin.

6.3 Chemical geothermometer map: SiO_2 Temperatures

All SiO_2 temperatures (quartz) shown in the Table are plotted on the 1:1 000 000 map, again distinguished according to formation of origin.

7 SOURCES OF DATA

7.1 Sources of temperature data

Previous compilations of underground temperature data in the UK have been carried out by the British Association Committee on Underground Temperatures who produced a series of reports between 1868 and 1903, and by Dunham (1974) who prepared an unpublished report containing data for 111 locations. The data reported by Dunham are discussed in a published report by Garnish (1976).

In the present compilation data have normally been obtained directly from the organisation for whom the temperatures were measured, and in certain cases from publications. In Table I the origin of the records for each location is indicated by an abbreviation, a list of which follows:

ABBREVIATION	SOURCE
BAC	Ball and Collins (Oil and Gas) Ltd
BER	Berkley Petroleum
BP	British Petroleum
BRA	Bralorne Resources Ltd
BUR	Burmah Oil Developments Ltd
CAM	Cambrian Exploration Ltd
CAN	Candecca Resources Ltd
CAW	Westland Warner Oils Ltd
CON	Conoco North Sea Inc.
DAR	D'arcy
DUP	Duntex Petroleum
EMP	Empress Gas UK Ltd
ESO	Esso Exploration and Production (UK)
GAS	British Gas Corporation
HAM	Hamilton Bros. Oil and Gas Ltd
HOC	Home Oil (UK) Ltd
IC	Imperial College (J. Wheildon and others)
ICI	Imperial Chemical Industries Ltd
IGS	Institute of Geological Sciences
MAR	Marathon Oil
MON	Monsanto Ltd
NCB	National Coal Board
OXU	Oxford University (E. R. Oxburgh and others)
PEN	Pennzoil (UK) Co
PLE	Place Gas and Oil
QUN	Quintana Overseas Inc.
RTZ	Rio Tinto Finance and Exploration Ltd
SAF	Safari Oil Ltd
SCR	Scurry Rainbow (UK) Ltd
SHL	Shell UK Exploration and Production
SUP	Superior Oil
TEX	Texaco Production Services Ltd
TRE	Petrotrend Ltd
ULT	Ultramar Exploration Ltd
YP	Yorkshire Potash Ltd

PUBLICATIONS (see references in section 8 for details):

1	Bullard and Niblett (1951)
2	Mullins and Hinsley (1957)
3	Jones (1926)
4	Jones (1924)
5	Graham (1922)
6	British Association Reports (1868-1904)
7	James (1944)
8	Benfield (1939)
9	Chadwick (1956)
10	Bott and others (1972)
11	Anderson (1940)
12	Bott and Johnson (1968)
13	Cooper and Jones (1959)

7.2 Sources of heat flow data

Previous compilations of heat flow data in the UK include those by Lee and Uyeda (1965) and Morgan (1976).

In Table II data are listed under the names of the investigators. Published sources are listed under the authors name in Section 8 (references). Unpublished data have been received from the groups at Oxford University and at Imperial College (Section 4.1).

7.3 Sources of geochemical data

Hydrogeochemical data quoted in Tables IIIA and IIIB have been obtained from the following sources:

IGS	National Well Record Collection Hydrogeochemical Data File
Hydrocarbon companies	British Petroleum Home Oil Company
Other sources	National Coal Board Severn-Trent Water Authority Northumbrian Water Authority North-West Water Authority Thames Water Authority East Surrey Water Company Mid-Southern Water Company

Data on thermal and mineral springs in the United Kingdom have been reviewed by Edmunds, Taylor and Downing (1969).

8 REFERENCES

ANDERSON, E.M. 1940. The loss of heat by conduction from the earth's crust in Britain. Proc. Roy. Soc. Edinb., Vol. 60, pp. 192-209.

BENFIELD, A.E. 1939. Terrestrial heat flow in Great Britain. Proc. Roy. Soc. A, Vol. 173, pp. 430-450.

BIRCH, F. 1948. The effects of Pleistocene climatic corrections upon geothermal gradients, Am. J. Sci., Vol. 246, p. 729.

BOTT, M.H.P. and JOHNSON, G.A.L. 1968. Temperature measurements in the Woodland borehole, Bull. Geol. Surv. Gt. Br., No. 28, p. 37

BOTT, M.H.P., JOHNSON, G.A.L., MANSFIELD, J. and WHEILDON, J. 1972. Terrestrial heat flow in north-east England. Geophys. J.R. Astr. Soc., Vol. 27, pp. 277-288.

BRITISH ASSOCIATION REPORTS: Committee on strata temperatures. Rep. Brit. Assoc., 1868-1904 (23 reports).

BULLARD, E.C. 1939. Heat flow in S Africa. Proc. Roy. Soc. A, Vol. 173, pp. 474-502.

BULLARD, E.C. and NIBLETT, E.R. 1951. Terrestrial heat flow in England. Monthly Note, Roy. Astr. Soc., Geophys. Suppl. No. 6, pp. 222-238.

CHADWICK, P. 1956. Heat flow from the earth at Cambridge. Nature, London, Vol. 178, pp. 105-106.

COOPER, L.R. and JONES, C. 1959. The determination of virgin strata temperatures from observations in deep survey boreholes. Geophys. J. R. Astr. Soc. 2, 116-131.

DUNHAM, K.C. 1974. Geothermal energy for the United Kingdom - geological aspects. Unpublished confidential report, Institute of Geological Sciences.

EDMUNDS, W.M. 1971. Hydrogeochemistry of groundwaters in the Derbyshire Dome with special reference to trace constituents. Rep. Inst. Geol. Sci., No. 71/7.

EDMUNDS, W.M., TAYLOR, B.J. and DOWNING, R.A. 1969. Mineral and thermal waters of the United Kingdom. 13th Sess. Int. Geol. Congr., Prague 1968. Symposium on mineral and thermal waters, pp. 139-158.

GARNISH, J.D. 1976. Geothermal energy: the case for research in the United Kingdom. Energy Paper No. 9, Dept. of Energy. H.M.S.O.

GRAHAM, J.I. 1922. Rock temperatures in the Coal Measures of Great Britain (Fourth report to the committee on 'The Control of Atmosphere Conditions in hot and deep mines'). Trans. Inst. Min. Eng., Vol. 63, pp. 343-399.

HENWOOD, W.J. 1871. Observations on subterranean temperature. Trans. Roy. Soc. Cornwall, Vol. 8 Pt. 2, pp. 723-766.

JAEGER, J.C. 1965. Application of the theory of heat conduction to geothermal measurements. In Geogphysical Monograph No. 8. Edited by W.H.K. Lee. (American Geophysical Union.)

JAMES, C.C. 1944. Mine temperatures in west Cornwall. Trans. Roy. Geol. Soc. Cornwall, Vol. 17, pp. 164-173.

JONES, T.D. 1924. The strata temperatures of the South Wales and Pembrokeshire coalfields. Proc. S. Wales Inst. Eng., Vol. 39, pp. 559-579.

JONES, T.D. 1926. Further investigation of strata temperatures in the South Wales coalfield. Proc. S. Wales Inst. Eng., Vol. 41, pp. 157-170.

KHARAKA, Y. and BARNES, I. 1973. SOLMNEO: Solution-mineral equilibrium computations. Rep. U.S. Geol. Soc., No. WRD-73-002.

LEE, W.H.K. and UYEDA, S. 1965. Review of heat flow data. In Geophysical Monograph No. 8. Edited by W.H.K. Lee. (American Geophysical Union.)

MORGAN, P. 1976. Great Britain - a geothermal prospect? Geothermal Energy Mag. Vol. 4, No. 5, pp. 8-11.

MULLINS, R. and HINSLEY, F.B. 1957. Measurement of geothermic gradient in boreholes. Trans. Inst. Min. Eng., Vol. 117, pp. 380-396.

TAMMEMAGI, H.Y. and WHEILDON, J. 1974. Terrestrial heat flow and heat generation in south-west England. Geophys. J. R. Astr. Soc., Vol. 38, pp. 83-94.

TAMMEMAGI, H.Y. and WHEILDON, J. 1977. Further data on the south-west England heat flow anomaly. Geophys. J. R. Astr. Soc., Vol. 49, pp. 531-539

TRUESDELL, A. 1975. Summary of Section III - Geochemical Techniques in Exploration. Proc. 2nd UN Symp. Dev. Ut. Geothermal Resour., San Francisco., pp. liii-lxxix.

WHITE, D.E. 1970. Geochemistry applied to the discovery, evaluation and exploitation of geothermal energy resources. Proc. UN Symp. Dev. Ut. Geothermal Resour., Pisa., pp. 58-80.

APPENDIX I

NOTES ON THE TECTONIC MAP OF THE U.K.

BY

F. W. DUNNING

The Earth's crust under Britain is built up of five major rock units formed at different stages of its evolution. Each unit consists of rock strata laid down as sediment or volcanic outpourings on the sea-floor or in depressions on land. The units are separated from one another by unconformities where the strata of a younger unit are laid across the buckled and eroded strata of an older unit. The buckling has been caused by compressive stresses produced when sections or plates of the Earth's crust collided together in the geological past. The unconformities between the five major units are correlated with the following successive episodes of deformation and crustal uplift (termed orogenies):

The Cadomian orogeny, at 600 million years ago
The Caledonian orogeny, at 400 million years ago
The Hercynian orogeny, at 300 million years ago
The Alpine orogeny, at 25 million years ago

The map (map 1) shows basically the outcrops of these major units. It also distinguishes between thick rock formations which were folded severely (orogenic fold-belts) and thinner rock units folded gently or not at all (platform cover). The main units shown are (from youngest to oldest);

5. The younger Permian-Mesozoic-Tertiary cover, in part folded by the Alpine orogeny.
4. The older Upper Palaeozoic cover in part folded by the Hercynian orogeny.
3. Upper Palaeozoic strata intensely folded by the Hercynian orogeny.
2. Lower Palaeozoic strata intensely folded by the the Caledonian orogeny (with a zone of older folding accompanied by heating and metamorphic recrystallisation in the Scottish Highlands).
1. Precambrian basement.

Each of the intensely folded orogenic belts (shown without concealing platform cover in the large inset map) is cut through by bodies of granite which have arisen by melting of deeper layers of the crust.

It is mainly these granites and the deeper basins in the platform cover that are of geothermal interest in Britain. Some of the former are of potential value for 'hot rock' applications, whilst the deeper basins may contin hot groundwaters capable of providing low enthalpy heat.

1. The Precambrian basement

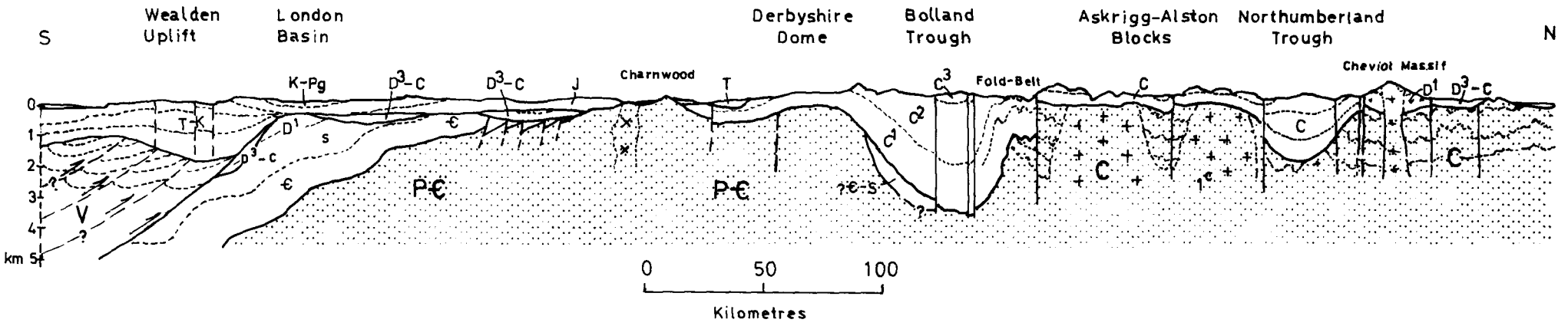
It is possible in fact to distinguish older and younger portions of the Precambrian, visibly separated in a few places by a major unconformity. In general, an older crystalline basement not younger than about 1500 million years and going back in places to more than 3000 million years, is surmounted by late Precambrian formations younger than 1000 million years, most of which are unmetamorphosed and in some places, unfolded.

The older crystalline basement has its largest outcrop in the Lewisian complex along the seaboard of the NW Highlands of Scotland and in the Outer Hebrides. The younger parts of it (the Laxfordian complex) are composed of gneisses of a granitic aspect. The older parts (the Scourian complex) consist of granulites strongly depleted in the radioactive elements K, U and Th. The Lewisian complex probably extends under Scotland as far south as the Southern Uplands, but the crystalline basement south of the Southern Uplands is probably a different one and more closely allied to the old crystalline (Pentevrian) basement of Brittany and the Channel Islands. The Pentevrian basement may be exposed in central Anglesey and in the Lizard area of Cornwall.

The younger unmetamorphosed Precambrian rocks are exposed in central England and the Welsh Borders; they are mainly volcanic formations and sandstones, strongly folded by the Cadomian compressions. The Lewisian complex is partly covered by unfolded horizontal beds of red sandstone - the Torridonian - separately coloured on the map as oldest platform cover.

2. The Caledonian folded-belts

The map distinguishes between the older crystalline portions of the Caledonian fold-belt (the early Caledonides) in the Highlands of Scotland folded 500 million years ago (coloured muddy pink) and the younger portions (the late Caledonides) folded 400 million years ago (coloured slate-grey) in the Southern Uplands and Co. Down, the Lake District, Isle of Man and Wales. The early Caledonides in the Highlands are built from a huge thickness of late Precambrian and Cambrian metamorphosed sedimentary strata, folded into complex shapes. The late Caledonides are mainly slaty and gritty rocks of Lower Palaeozoic age, also very thick, but not folded with the same intensity as the metamorphic early Caledonides. Both the early and late Caledonides are injected by granitic bodies which may be of geothermal interest. Fairly large areas of the folded late Caledonides are concealed under younger platform cover. Some of these concealed areas contain granite intrusions known from geophysical study and drilling: the Weardale and Wensleydale granite in the Alston-Askrigg Block (coloured buff on the map) are of particular interest. The Caledonides in Wales are intermediate between the fold-belt proper as exposed in the Lake District and Southern Uplands and the platform as exposed in Warwickshire: the strata in Wales are thinner on average, less strongly folded and devoid of large granite bodies. Southeast England is also underlain at depth by Caledonian-folded rocks: these are if anything thinner than those in Wales and also devoid of granite intrusions, though a granite mass in central England intruded into Precambrian rocks - the Mountsorrel granite - is reputedly of Caledonian age. They are shown as shelf deposits (SC) on the



T-Pg — Post-Carboniferous cover (in part Alpine-folded)

D^3-C — Post-Caledonian cover (Variscan-folded)

€-S — Lower Palaeozoic cover (Caledonian-folded)

V — Variscides (Hercynides)

C — Caledonides (including Lower Old Red Sandstone)

P-€ — Precambrian basement



Fig. 1 Section from southern Scotland to the English Channel showing principal divisions of the platform cover in Britain. Vertical scale about 12 times the horizontal.
FROM: Dunning F.W. (in press) 'Explanatory memoir to the International Tectonic Map of Europe and adjacent areas'. Scale 1:2 500 000. To be published by IUGS, UNESCO.

map and as folded cover in the section (Fig. 1).

3. The Hercynian fold-belt

Predominantly slaty and gritty Devonian and Carboniferous formations, intensely folded by crustal compression around 300 million years ago, form the peninsula of Southwest England. A very large body of granite - the so-called Cornubian Batholith - underlies South Devon and Cornwall and extends out to the Scilly Islands and the Haig Fras bank. Cupolas on the upper surface of the batholith are exposed as the Devon and Cornish granites. A rich copper-tin mineralisation is associated with these granites, which have also undergone 'self-alteration' resulting in growth of potassium-bearing feldspar minerals and the breakdown of other feldspars into china clay.

4. The older Upper Palaeozoic cover

Over wide areas of Britain north of the Hercynian fold-belt - in the so-called Hercynian-foreland - the older Caledonian and Precambrian basement is covered by Devonian and Carboniferous sedimentary and volcanic formations which, although strongly folded in a few places, are mostly flat-lying or gently arched or tilted, and broken by innumerable steep fractures. The age of the folding is the same as that in the Hercynian fold-belt of Southwest England. In a belt extending underground from the Boulonnais to the Mendips and thence via the Gower Peninsula to Pembroke, the foreland formations are thrown into a series of folds parallel to the main Hercynian orogenic belt: the compressive forces emanating from the Hercynian belt have predominated, forcing the older basement to follow the Hercynian (WNW) direction. The belt is the so-called Hercynian Front and is coloured nut-brown on the map. North of the Hercynian Front, the folds in the Devonian and Carboniferous follow directions which are determined by older underlying basement rocks and by pre-existing fractures in them. The N-S Pennine uplift, for example, is located over the northward prolongation of the N-S Malvern Axis, an old fracture zone with a long history of movement going back to the Precambrian. These rocks are coloured dark honey on the map. Over the Askrigg and Alston blocks the Carboniferous cover is thin and almost flat-lying; it is regarded as a true platform cover and has a buff colour on the map.

Parts of the Devonian Old Red Sandstone that are unconformable to the underlying Lower Palaeozoic and have been folded by late Caledonian movements before the Middle Devonian are coloured dark brown; they mainly appear in the Cheviot and Scottish Midland Valley areas. Other Old Red Sandstone formations in the Welsh Borderland are also folded by mid-Devonian movements but there is no discordance between them and the underlying Silurian: they are coloured grey with brown dots. Adjacent Old Red Sandstone formations affected only by Hercynian folding are coloured dark honey.

The Carboniferous formations are downwarped to form the main coalfields under which the thickness of Carboniferous cover may reach as much as 4 kilometres. The Carboniferous formations also tend to be thicker in these basins. The deepest basins are located in the western South Wales Coalfield; in northern England on either side of the Pennine Uplift and under Flamborough Head; and in Scotland under Fife. They are not specifically indicated on the map. The folding tends to be stronger in the basinal areas, especially where they adjoin the positive blocks.

Intrusive igneous rocks, mainly basic sills, are widespread in Northern England and the Scottish Midland Valley but have no geothermal potential; neither do the extensive lava outpourings in the Coal Measures east of the Derbyshire Dome and in the Devonian and Carboniferous of the Midland Valley of Scotland.

5. The younger Permian-Mesozoic-Tertiary cover

The post-Carboniferous formations in Britain belong entirely to the younger platform cover which rests unconformably on Precambrian, Caledonian and Hercynian folded rocks as well as on the older Hercynian-folded cover. They are layer-tinted in various shades of leek-green on the map to indicate the depths to the underlying basement. In south-west England and on the flanks of the Pennines, Permian formations compose the basal divisions of the cover; elsewhere, Triassic rocks usually form the base except on the so-called London Platform over which younger Jurassic or Cretaceous rocks rest directly on basement. The thin green line 'Limit of Rhaetic' delimits this area of elevated basement.

The most striking features of the younger post-Carboniferous cover are the four deep basins on land - the Wessex Basin in Southern England, the Severn Basin in west-central England, the North-east Basin in northeastern England and the Cheshire Basin - and the almost total lack of correspondence between the shape of the basement surface and the tectonic structure of the cover. For example, the main axis of the London Basin, a tectonic downwarp, trends at 45° to the basement contours and the lowest point of the Basin nearly coincides with the highest of the upwardly convex basement, as shown in figure 1. The main basins shown on the map by layer tinting have originated partly as depositional basins and partly as tectonic basins. In general the Triassic, Jurassic and Lower Cretaceous sediments are much thicker in the basins and thin out over the adjacent basement highs, while the Upper Cretaceous and Tertiary formations show relatively little thickness variation related to the basement. Recent work has established the possible existence of a rift valley system under the Wealden trough, the Severn Basin and the Bristol Channel which was initiated in the Permo-Trias and not finally buried till the late Mesozoic.

Alpine folding linked to orogenic forces affects principally the south of England south of a line joining the Thames and Severn estuaries (shown by vertical yellow lines). It characteristically takes the form of north-facing faulted monoclines, with local buckling and crumpling. In South-West England, the chief effects are large NW transcurrent faults.

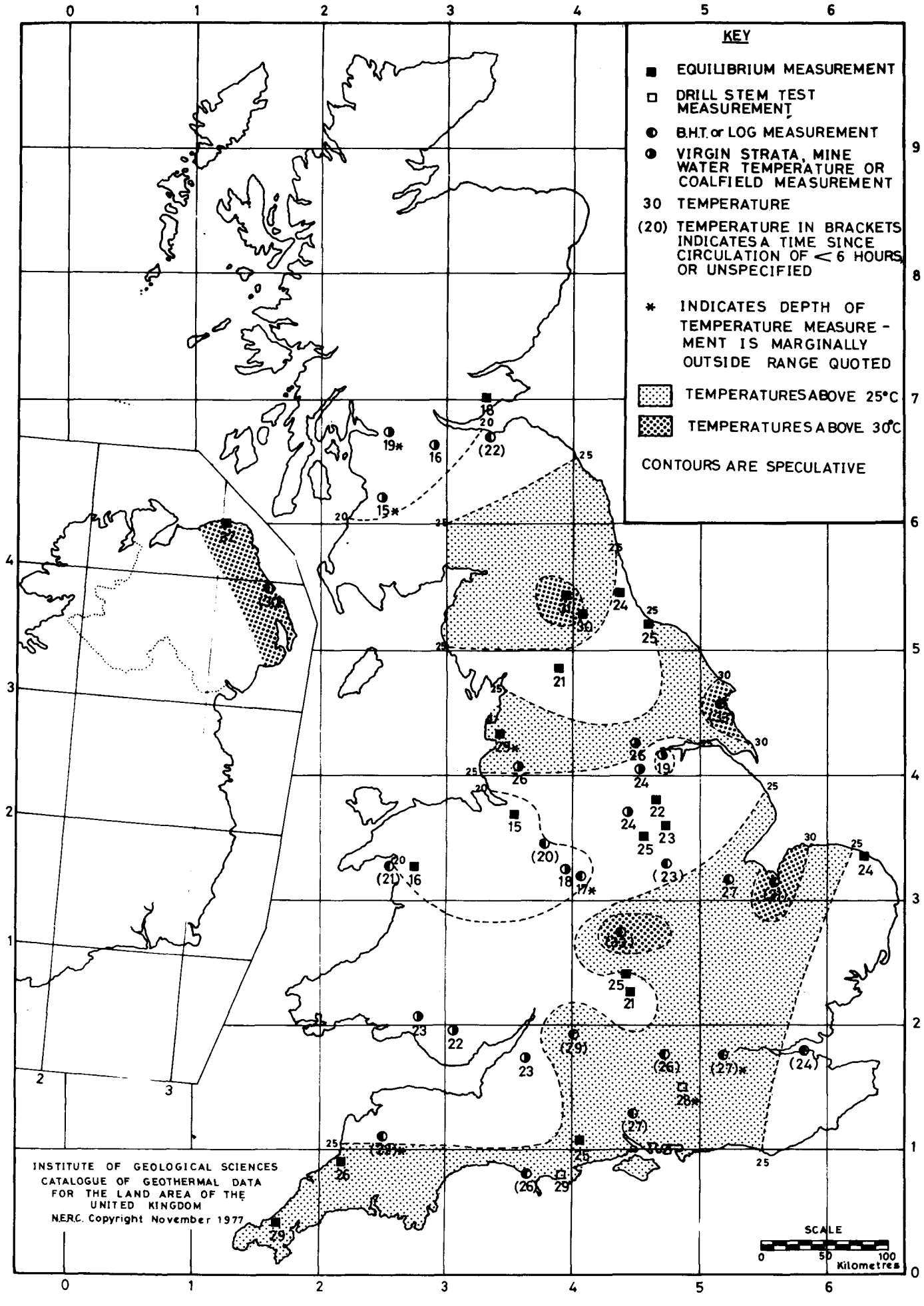
In Northern Ireland and the Inner Hebrides are

the remains of extensive lava fields and central volcanics dating from the early Eocene 58-60 million years ago. Large granite intrusions are associated with the central volcanoes; geophysical studies suggest that they are caps of differentiated acid material or fused basement rock located at the tops of columns of basic rock extending right down to the base of the Earth's crust.

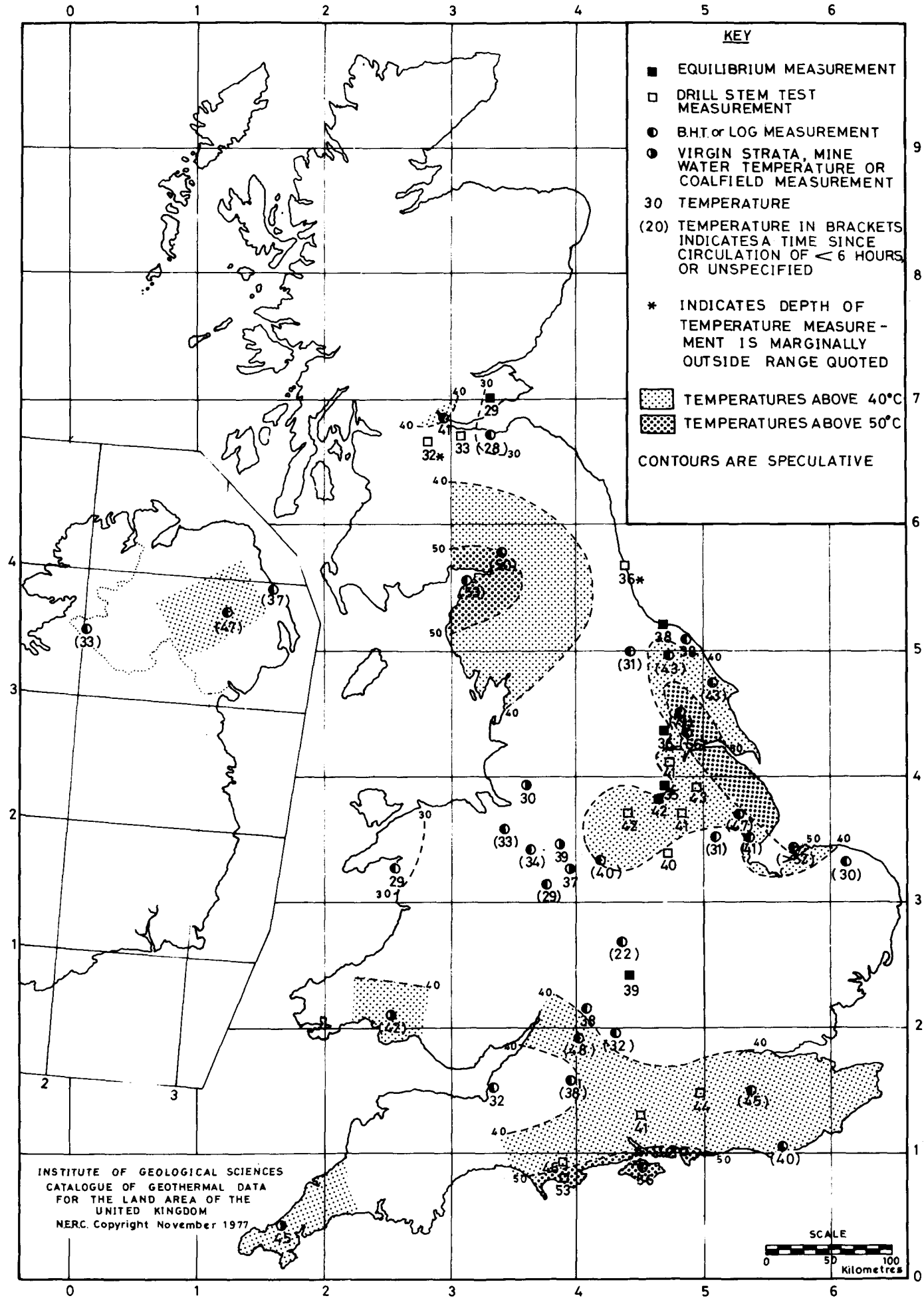
APPENDIX II

MAPS OF TEMPERATURES AT DEPTH INTERVALS OF 500 METRES

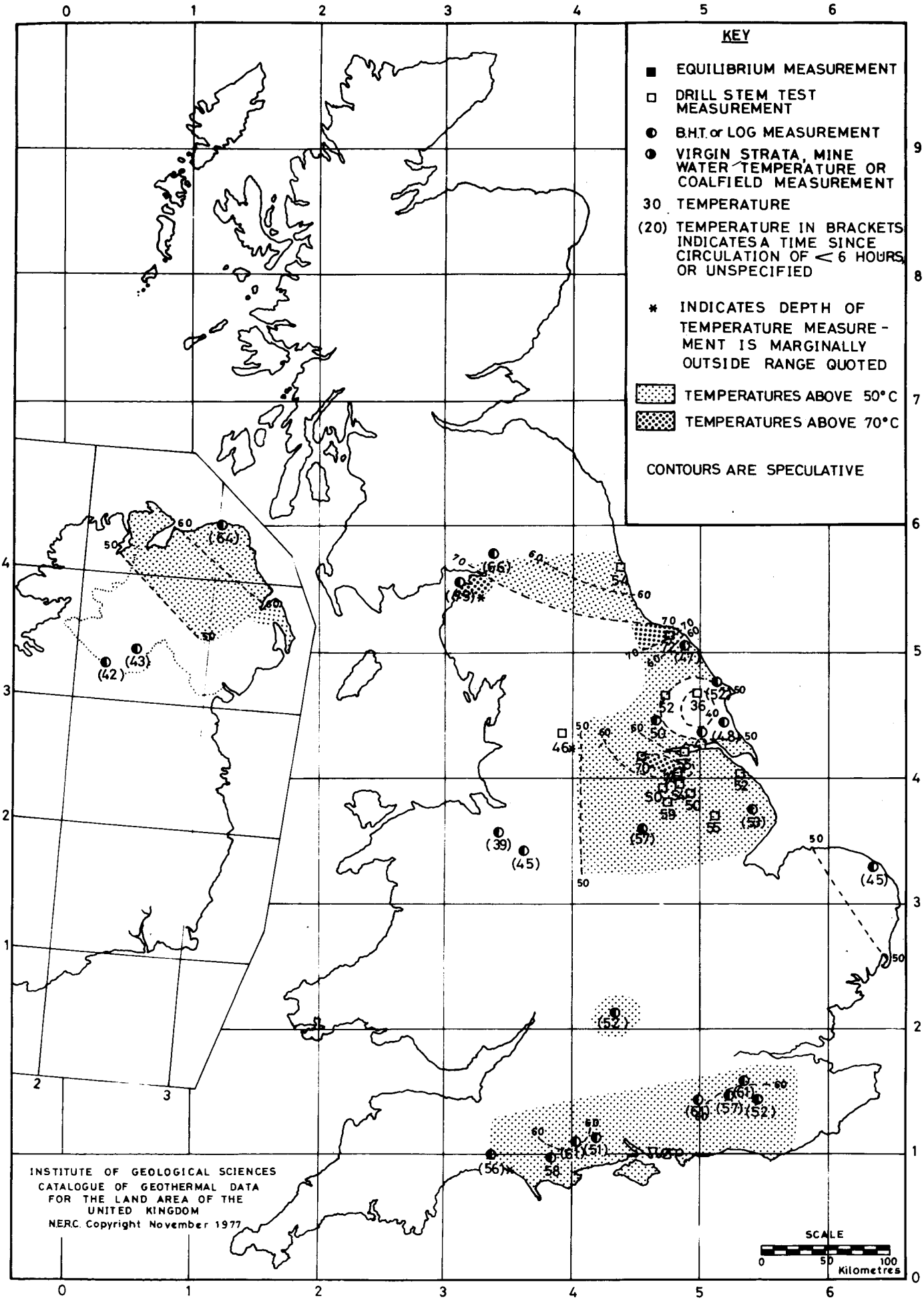
Temperatures are plotted at 500 m, 1000 m, 1500 m, 2000 , 2500 m and 3000 m below ground level. The values given are calculated by interpolation between measured values, or between a measured value and the estimated surface temperature, provided that at least one of the measured values is at a depth within the range ±25% of the nominal depth e.g. on the 1000 m depth map, values are plotted only where a measurement has been made between 750 m and 1250 m. If the maximum depth at which the temperature has been measured is less than the nominal depth of the plot, but within 10% of it, the mean temperature gradient is extrapolated to give a value. In a few cases, values marginally outside these ranges have been included: these are marked on the maps by an asterisk. Where several measurements have been measured in the same vicinity, the value derived from the most reliable measurement is plotted.



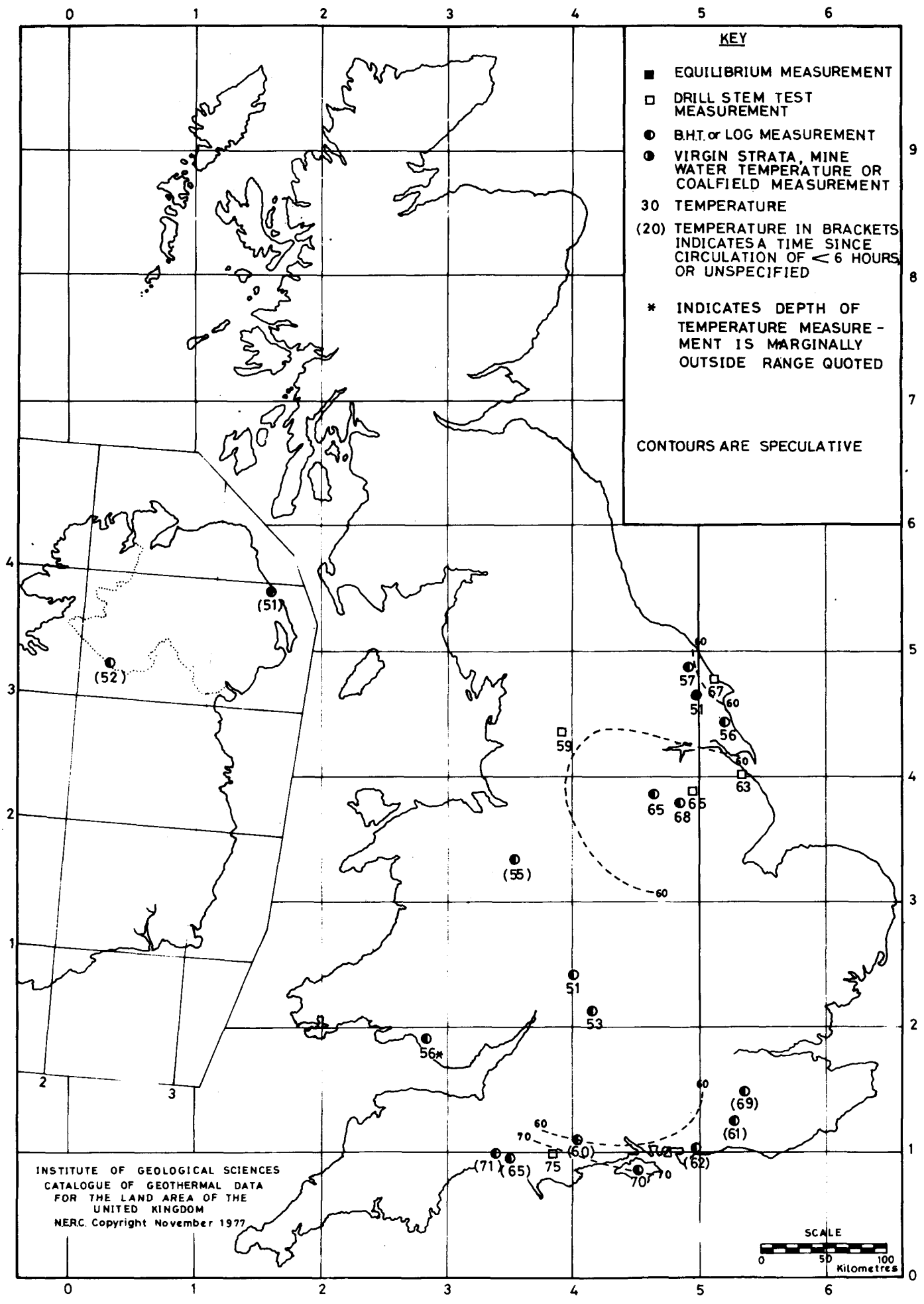
TEMPERATURE MAP 500 METRES BELOW GROUND LEVEL



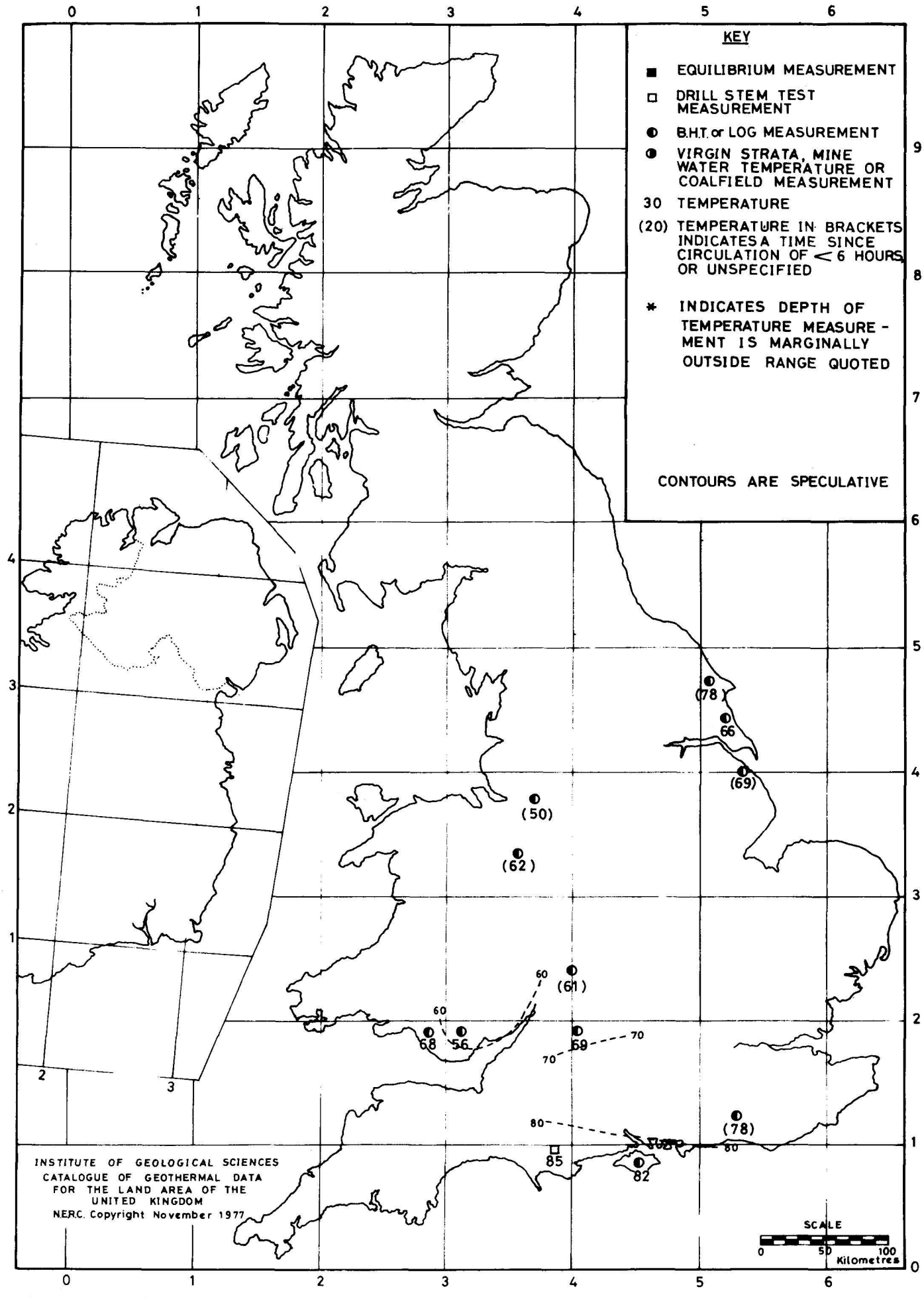
TEMPERATURE MAP 1,000 METRES BELOW GROUND LEVEL



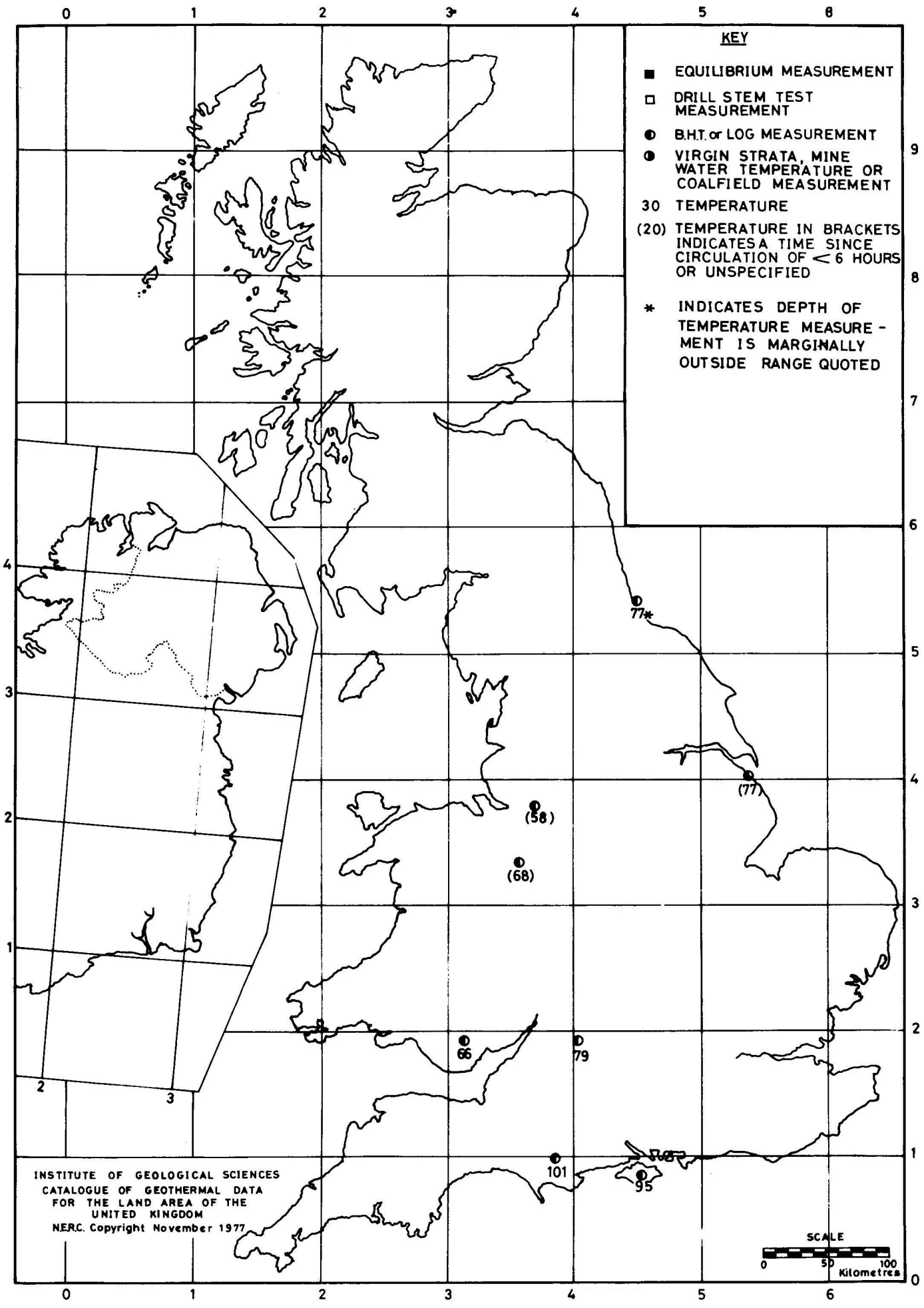
TEMPERATURE MAP 1,500 METRES BELOW GROUND LEVEL



TEMPERATURE MAP 2,000 METRES BELOW GROUND LEVEL



TEMPERATURE MAP 2,500 METRES BELOW GROUND LEVEL



TEMPERATURE MAP 3,000 METRES BELOW GROUND LEVEL

TECTONIC MAP OF GREAT BRITAIN AND NORTHERN IRELAND

BASED ON THE WORK OF THE GEOLOGICAL SURVEY AND OTHER PUBLISHED DATA

1st. EDITION 1966

SIR JAMES STUBBLEFIELD, D.Sc., F.R.S., DIRECTOR

SCALE 1:1584000

MILES 50 40 30 20 10 0 50 100

KILOMETRES 50 40 30 20 10 0 50 100 150

ATLANTIC OCEAN

NORTH SEA

IRISH SEA

ENGLISH CHANNEL

DYKE SWARMS IN THE BRITISH ISLANDS

Post-orogenic, in orogenic belts
- Hercynian
- Caledonian

Non-orogenic, in platform areas
- Tertiary (Eocene)
- Permian–Carboniferous
- Pre-Cambrian (Pre-Laxfordian) "Scourie" Dykes

MILES 50 0 50 100

KILOMETRES 50 0 50 100 150

DOMINANT ELEMENTS IN THE STRUCTURE OF THE BRITISH ISLANDS

Platform cover of various ages from Tertiary to Torridonian and Hercynian–folded rocks with fold–trends directed by older structures are omitted

PRE-CAMBRIAN (LEWISIAN) BASEMENT

CALEDONIDES

NON-METAMORPHIC ZONE

METAMORPHIC ZONE

PRE-CAMBRIAN BASEMENT

LOWER PALAEOZOIC ROCKS OF THE BRABANT MASSIF

HERCYNIDES

MILES 50 0 50 100

KILOMETRES 50 0 50 100 150

- Geofractures
- Thrusts and Slides
- Major Faults

INDEX

CRATONIC (PLATFORM) COVER WITH GENTLE FOLDING ON HERCYNIAN, CALEDONIAN AND/OR PRE-CAMBRIAN BASEMENT

e–k Permian–Mesozoic–Tertiary strata of unspecified thickness (includes basalt lavas of Lower Tertiary age)

From surface to –500 metres
From –500 metres to –1000 metres
From –1000 metres to –1500 metres
From –1500 metres to –2000 metres
From –2000 metres to –3000 metres
From –3000 metres to –4000 metres

Contours on the surface of the basement beneath Permian–Mesozoic–Tertiary cover in metres below sea level

ON CALEDONIAN AND/OR PRE-CAMBRIAN BASEMENT:

C^{2}–d Upper Old Red Sandstone and/or Carboniferous

ON LEWISIAN (PRE-CAMBRIAN) BASEMENT:

f–i Mesozoic and overlying Tertiary basalts

a–b Cambro–Ordovician

t Torridonian (Upper Proterozoic)

ROCKS FOLDED BY ALPINE MOVEMENTS (Main folding in late Oligocene)

A Permian–Mesozoic–Tertiary cover in Southern England

ROCKS FOLDED BY HERCYNIAN MOVEMENTS (Main folding in late Carboniferous)

AGH Strongly folded Lower Devonian to Westphalian strata in the Armorican Geosyncline of South–West England

ASH Palaeozoic strata of shelf facies, with strong Hercynian folding of Armorican trend, in the border zone of the Armorican Geosyncline (Mendips–Glamorgan–Pembrokeshire)

FH Palaeozoic cover in the Hercynian Foreland with Hercynian folding wholly or partly directed by structures in the underlying basement ("Caledonoid" (NE), "Charnoid" (NW) and "Malvernoid" (NS) trends of folding)

HC Cores and inliers of Caledonian–folded Lower Palaeozoic strata in Hercynian–folded areas (Skomer, Malvern, Tortworth)

H_x Schists of Lizard, Dodman and Start, of uncertain age, involved in early Hercynian (? Acadian) structures in South–West England

ROCKS FOLDED BY CALEDONIAN MOVEMENTS

C^{2} Lower Old Red Sandstone and Middle Old Red Sandstone unconformable on Lower Palaeozoic or older rocks and folded by late Caledonian movements

CALEDONIAN METAMORPHIC ZONE (Main foldings and metamorphisms in late Cambrian – early Ordovician and late Silurian)

MC Moine and Dalradian series — Late Pre–Cambrian to Middle Cambrian strata in re–folded recumbent folds and nappes

C^{1} Lewisian rocks involved in the Caledonian folding and metamorphism

CALEDONIAN NON–METAMORPHIC ZONE (Main folding in late Silurian to mid–Devonian)

GC Strongly folded Lower Palaeozoic strata in Caledonian geosynclines

SC Slightly to strongly folded Lower Palaeozoic strata of shelf facies in marginal zones of Caledonian geosynclines and in shelf areas

α–$\delta^{2}d$ Silurian strata of shelf facies with conformably overlying Lower Old Red Sandstone folded by mid–Devonian movements

Paraautochthonous Lewisian, Torridonian and Cambro–Ordovician rocks involved in the Caledonian thrust–movements in Western and North–Western Scotland

ROCKS AFFECTED BY PRE–DEVONIAN FOLDINGS AND METAMORPHISMS OF PROBABLE CALEDONIAN AGE

MC_p Phyllitic nappes and allied rocks of Shetland, of possible Upper Dalradian age

MC_{lm} Lunnasting, East Mainland and other successions in Shetland, of possible Lower Dalradian age

ROCKS FOLDED BY PRE–CAMBRIAN MOVEMENTS

NON–METAMORPHIC LATE PROTEROZOIC FORMATIONS (Moderately to strongly folded)

X Predominantly sedimentary formations of continental shallow–water origin (Longmyndian, Upper Charnian and Ingletonian)

X Acid and intermediate volcanic rocks (Uriconian, Lower and Middle Charnian, Pebidian and Arvonian)

METAMORPHIC FORMATIONS

Bedded Series of Anglesey — highly folded geosynclinal rocks of probable Upper Proterozoic age

Malvern Gneiss and Rushton Schists (probably Proterozoic)

LEWISIAN COMPLEX

ℓL Scourian complex re–worked by strong Laxfordian folding and metamorphism dated at 1500 – 1600 million years

ℓS Scourian complex — katazonal gneisses and granulites dating from 2600 million years and older to 2200 million years

ℓ Undivided

INTRUSIVE IGNEOUS ROCKS IN OROGENIC BELTS (Roman letter indicates orogeny)

Discordant intrusions of granitic and dioritic composition

Migmatitic granite–gneiss and associated granite

Areas of intense granitic and pegmatitic injection (including migmatites)

Pre–orogenic acid to intermediate intrusions foliated in the Caledonian orogeny (Carn Chuinneag augen–gneiss, etc.)

Alkaline intrusions in the North–West Highlands of Scotland

Late– and post–orogenic basic intrusions

Basic and ultrabasic intrusions associated with geosynclinal magmatism (a) unfoliated (b) foliated

IN NON–OROGENIC AREAS, INCLUDING SUB–VOLCANIC INTRUSIONS (Roman letter indicates age)

βTi Intrusions ranging from ultrabasic to acid in the Tertiary Volcanic Province

αδd Basic alkaline intrusions of Carboniferous age in the Midland Valley of Scotland

Metagabbro–anorthosite–tonalite complex of South Harris (Pre–Cambrian ; pre–Laxfordian)

OTHER INTRUSIVE IGNEOUS ROCKS

βH Quartz–dolerite intrusions in the Midland Valley and Northern England, following on the Hercynian movements

γX Acid, intermediate and basic intrusions in the non–metamorphic Pre–Cambrian formations (Dinetian, Charnian 'syenites', etc.)

EXTRUSIVE IGNEOUS ROCKS

Terrestrial volcanic rocks, mainly basalt with minor trachyte and rhyolite, arising from non–orogenic platform vulcanism

Terrestrial volcanic rocks, mainly andesite and basalt, arising from post–orogenic subsequent vulcanism

Geosynclinal volcanic rocks, chiefly spilite and keratophyre, but including rhyolite–ignimbrite and andesite in Wales and the Lake District

Sites of volcanoes (with stratigraphical index)

STRUCTURAL SYMBOLS

Major unconformities and non–sequences (shading[1] on younger side)

Trend of strike of bedding and / or foliation (generalized)

Anticlines, antiformes[2] and anticlinoria (a) upright (b) inclined and overturned (c) recumbent (arrows show vergence)

Synclines, synforms[2] and synclinoria (shown where necessary and where space permits)

Axial traces of smaller folds

Plunge of linear structures

Major inversions

Domes and other broad uplifts, and, in metamorphic areas, axial culminations

Basins, and, in metamorphic areas, axial depressions (also used in combination with the symbol for unconformities)

Monoclines (triangles point towards lower limb)

Normal faults (ticks on downthrow side)

Thrust faults (ticks on superposed side)

Wrench (tear) faults

Dislocations of undetermined type

Gently inclined thrusts and soles of nappes (barbs on superposed side)

Deep–seated faults bounding blocks and controlling sedimentation; regional monoclinal flexures

a) anticlines (b) synclines in folded rocks concealed beneath platform cover

(a) Gently inclined thrusts (b) faults (c) deep–seated faults (d) basins (e) domes in folded rocks concealed beneath platform cover

Boreholes which reach the pre–Permian basement in England (depth to basement in metres below sea level; stratigraphical index shows age of rocks encountered on entering the basement)

Boreholes which do not reach the pre–Permian basement in England (depth to bottom of borehole in metres below sea level; stratigraphical index shows age of rocks at bottom of borehole)

Contours on the surface of the pre–Permian basement in England in metres below sea level

Contours on the base of the Rhaetic in metres below sea level

Garnet isograd in the Caledonian Metamorphic Zone (letter "g" on the higher–grade side)

NOTE Geological sequences bounded by major unconformities and non–sequences in folded regions are indicated by the Geological Survey stratigraphical symbol placed as a suffix to the orogenic symbol; for example, GC_b–^{H} signifies a more or less continuous sequence of geosynclinal rocks ranging in age from Caradoc to Wenlock and folded by Caledonian movements. For little–folded cover rocks the stratigraphical symbol alone is used. Geological Survey stratigraphical symbols used on the map are as follows: a–Cambrian including Tremadoc; b–Ordovician–Silurian (b^{1}–Arenig, b^{2}–Llandeilo, b^{3}–Caradoc and Ashgill, b^{4}–Llandovery, b^{5}–Wenlock, b^{6}–Ludlow); c–Devonian (c^{1}–Lower Devonian and Lower Old Red Sandstone, c^{2}–Middle Devonian and Middle Old Red Sandstone, c^{3}–Upper Devonian and Upper Old Red Sandstone); d–Carboniferous (d^{1}–Carboniferous Limestone Series, d^{4}–Millstone Grit Series, d^{5}–Lower and Middle Coal Measures, d^{6}–Upper Coal Measures); e–Permian; f–Trias; g–Jurassic; h–Cretaceous; i–Eocene–Oligocene k–Pliocene; l–Pleistocene.

[1] Shading is omitted where the outcrops are concealed by minor faulting

[2] All folds shown in the Lewisian and Caledonian metamorphic rocks north of the Great Glen Fault are second– or third–phase antiforms and synforms; so also are most folds within the Tay Nappe in the Caledonian Metamorphic Zone south of the Great Glen Fault. Those between the Tay Nappe and the Great Glen Fault and those shown as recumbent in the root–zone of the Tay Nappe are true first–phase anticlines and synclines.

SECTION A

W 39°N — NORTH UIST — S K Y E — S C O T T I S H H I G H L A N D S — TAY NAPPE — MIDLAND VALLEY GRABEN — SOUTHERN UPLANDS — SOLWAY FIRTH — LAKE DISTRICT — S 34°E

Metres / Feet

L E W I S I A N B A S E M E N T — C A L E D O N I A N M E T A M O R P H I C Z O N E — C A L E D O N I A N N O N – M E T A M O R P H I C Z O N E — (IRISH SEA GEANTICLINE)

SECTION B

N 28°W — ANGLESEY — CENTRAL WALES — BRISTOL CHANNEL — DORSET — S 28°E

(IRISH SEA GEANTICLINE) — C A L E D O N I D E S — H E R C Y N I D E S

DIAGRAMMATIC SECTIONS ACROSS THE MAP SHOWING THE GENERAL RELATIONS OF THE MAIN STRUCTURAL UNITS

Vertical Scale 3 times the horizontal

HORIZONTAL SCALE 1:1 000 000

MILES 10 0 10 20 30 40 50 60

KILOMETRES 10 0 10 20 30 40 50 60 70 80 90 100

CONTOURS ON THE SEA FLOOR

(Based on the International Geological and Tectonic Maps of Europe, 1964)

0 — 100 metres — 200 metres — 500 metres — 1000 metres — 2000 metres

1st Edition 1966, compiled by F. W. Dunning, B.Sc. Sir James Stubblefield, D.Sc., F.R.S., Director, Institute of Geological Sciences incorporating the Geological Survey of Great Britain, the Museum of Practical Geology and the Overseas Geological Surveys.

© Crown Copyright, 1966.

Made and published by the Director General of the Ordnance Survey, Chessington, Surrey, 1966, for the Institute of Geological Sciences.
3000/77

INSTITUTE OF GEOLOGICAL SCIENCES MAP LIBRARY 061772 26 JUN. 79 FSD.281 C642 BUR X1SBN1 0-85272/00/8 B

TEMPERATURE DATA LOCATION MAP

St. Kilda

Rockall

57°30′

13°30′

Shetland Islands

Orkney Islands

ABERDEEN

EDINBURGH

GLASGOW

MIDLAND VALLEY BASIN

BALLYCASTLE BASIN

LARNE BASIN

BELFAST

CUMBERLAND BASIN

NEWCASTLE

EAST YORKSHIRE BASIN

WEST LANCASHIRE BASIN

MANCHESTER

CHESHIRE BASIN

Wirral Peninsula

BIRMINGHAM

WORCESTER BASIN

CARDIFF

BATH BRISTOL BASIN

LONDON

HAMPSHIRE BASIN

SOUTHAMPTON

Scilly Isles

Scale 1 : 1,000,000

25 0 50 Miles

50 0 50 100 Kilometers

INSTITUTE OF GEOLOGICAL SCIENCES

CATALOGUE OF GEOTHERMAL DATA FOR THE LAND AREA OF THE UNITED KINGDOM

by A.J. BURLEY and W.M. EDMUNDS

Compiled under EEC contract No. 174–76–EGUK and under Department of Energy contract.

A.W. WOODLAND, C.B.E., *DIRECTOR*

JUNE 1977

©CROWN COPYRIGHT 1977

INDEX

MESOZOIC BASINS Contours on the surface of the basement beneath Permian - Mesozoic - Tertiary cover in metres below sea level

- From Surface to −500 metres
- −500 to −1,000
- −1000 to −1,500
- −1,500 to −2,000
- −2,000 to −3,000
- −3,000 to −4,000

IGNEOUS INTRUSIVE ROCKS

- Tertiary
- Hercynian — Discordant granitic intrusions
- Caledonian — Discordant granitic intrusions

DOMINANT STRUCTURES

- Geofractures
- Major Faults

TYPE OF MEASUREMENT

- Equilibrium Measurement
- Drill Stem Test
- Virgin strata, mine water temperature or coalfield measurement
- Bottom Hole Temperature or log

Explanation of numbers.

Figure above the symbol indicates index number in 100Km grid square. Figure below the symbol indicates mean temperature gradient in C/KM. Gradients quoted at one location are not directly comparable with those at another as they are calculated from temperature measurements of varying quality over a wide range of depths: reference should be made to table 1 for details.

Where the symbol covers more than one location the number of locations is indicated by the figure on the right of the symbol. In this case the index number above the symbol refers to the most reliable temperature measurement within the group.

INSTITUTE OF GEOLOGICAL SCIENCES
MAP LIBRARY
061768 26 JUN. 79
ESSO, BP, C&W, BUR — *158N [0-85274/76 B]

Drawn and Printed in England by Cook, Hammond & Kell, Ltd.

CHEMICAL GEOTHERMOMETER MAP

Na/K/Ca TEMPERATURES

St. Kilda

Rockall

57° 30′

13° 30′

Shetland Islands

Orkney Islands

ABERDEEN

EDINBURGH

GLASGOW

MIDLAND VALLEY BASIN

BALLYCASTLE BASIN

LARNE BASIN

BELFAST

CUMBERLAND BASIN

NEWCASTLE

EAST YORKSHIRE BASIN

WEST LANCASHIRE BASIN

Wirral Peninsula

MANCHESTER

CHESHIRE BASIN

LEEDS

BIRMINGHAM

WORCESTER BASIN

CARDIFF

BATH BRISTOL BASIN

LONDON

HAMPSHIRE BASIN

SOUTHAMPTON

Scilly Isles

INSTITUTE OF GEOLOGICAL SCIENCES

CATALOGUE OF GEOTHERMAL DATA FOR THE LAND AREA OF THE UNITED KINGDOM

by A.J. BURLEY and W.M. EDMUNDS

Compiled under EEC contract No. 174–76 – EGUK and under Department of Energy contract.

A.W. WOODLAND, C.B.E., *DIRECTOR*

JUNE 1977

©CROWN COPYRIGHT 1977

INDEX

MESOZOIC BASINS Contours on the surface of the basement beneath Permian - Mesozoic - Tertiary cover in metres below sea level

- From Surface to –500 metres
- –500 to –1,000
- –1000 to –1,500
- –1,500 to –2,000
- –2,000 to –3,000
- –3,000 to –4,000

IGNEOUS INTRUSIVE ROCKS

- Tertiary
- Hercynian — Discordant granitic intrusions
- Caledonian — Discordant granitic intrusions

DOMINANT STRUCTURES

- Geofractures
- Major Faults

TYPE OF MEASUREMENT

Na/Ca/K Geothermometry Results for β=4/3 (sedimentary source rock)

- < 25°C
- 25°-50°C
- 50°-75°C
- 75°-100°C
- >100°C
- Groundwater TDS ≥6000 mgL⁻¹

Stratigraphical classification of source rock

- Carboniferous & older
- Permo-Triassic
- Mesozoic

Na/Ca/K Geothermometry Results for β=4/3 (granite source rock)

- < 25°C
- 25°-50°C
- 50°-75°C
- 75°-100°C
- >100°C

Mean value of 2, 3 or more temperatures

Scale 1 : 1,000,000

50 0 50 Miles

50 0 50 100 Kilometers

INSTITUTE OF GEOLOGICAL SCIENCES MAP LIBRARY 06/1764 26 JUN. 79 ES50.661 (41-4) BGR XISBNI 0-86272/78/10 B

Drawn and Printed in England by Cook, Hammond & Kell, Ltd.

CHEMICAL GEOTHERMOMETER MAP

SiO_2 TEMPERATURES

St. Kilda

Rockall

57° 30'

13° 30'

Shetland Islands

Orkney Islands

BALLYCASTLE BASIN

LARNE BASIN

MIDLAND VALLEY BASIN

CUMBERLAND BASIN

WEST LANCASHIRE BASIN

CHESHIRE BASIN

EAST YORKSHIRE BASIN

WORCESTER BASIN

BATH BRISTOL BASIN

HAMPSHIRE BASIN

LONDON

Wirral Peninsula

BELFAST

GLASGOW

EDINBURGH

NEWCASTLE

MANCHESTER

LEEDS

BIRMINGHAM

CARDIFF

SOUTHAMPTON

ABERDEEN

Scilly Isles

INSTITUTE OF GEOLOGICAL SCIENCES

CATALOGUE OF GEOTHERMAL DATA FOR THE LAND AREA OF THE UNITED KINGDOM

by A.J. BURLEY and W.M. EDMUNDS

Compiled under EEC contract No. 174–76 – EGUK and under Department of Energy contract.

A.W. WOODLAND, C.B.E., *DIRECTOR*

JUNE 1977

© *CROWN COPYRIGHT 1977*

INDEX

MESOZOIC BASINS Contours on the surface of the basement beneath Permian - Mesozoic - Tertiary cover in metres below sea level

- From Surface to −500 metres
- −500 to −1,000
- −1000 to −1,500
- −1,500 to −2,000
- −2,000 to −3,000
- −3,000 to −4,000

IGNEOUS INTRUSIVE ROCKS

- Tertiary
- Hercynian — Discordant granitic intrusions
- Caledonian — Discordant granitic intrusions

DOMINANT STRUCTURES

- Geofractures
- Major Faults

TYPE OF MEASUREMENT

Sedimentary rocks; Dissolved SiO_2 Geothermometry Results (controlling phase : quartz)

- < 25°C
- 25°-50°C
- 50°-75°C
- 75°-100°C
- > 100°C

Stratigraphical classification of source rock

- Mesozoic
- Permo-Triassic
- Carboniferous & older

Granitic rocks; Dissolved SiO_2 Geothermometry Results (controlling phase : quartz)

- < 25°C
- 25°-50°C
- 50°-75°C
- 75°-100°C
- > 100°C

Mean value of 2, 3 or more temperatures

Scale 1 : 1,000,000

50 0 50 Miles

50 0 50 100 Kilometers

INSTITUTE OF GEOLOGICAL SCIENCES MAP LIBRARY 061760 26 JUN 79 ESSD. 361 (G1,4) BUR — */SERV 0-85272/18F B

Drawn and Printed in England by Cook, Hammond & Kell, Ltd.


2.8
3.2
3.6
4.0
4.5
5.0
5.6
6.3
7.1
8.0
9.0
10.0
11.2
12.5
14.0
16.0
18.0
20.0
22.4
25.0
28.0
32.0
36.0
40.0
45.0
50.0
56.0
63.0
71.0
80.0
90.0
100.0
112.0
125.0
140.0
160.0
180.0
200.0
224.0
250.0
280.0
320.0
360.0
400.0
450.0
500.0
560.0
630.0
710.0
800.0
900.0
1000.0
1.0
1.1
1.25
1.4
1.6
1.8
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

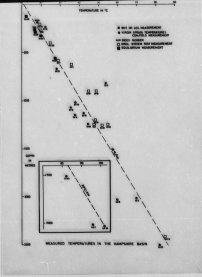
24X

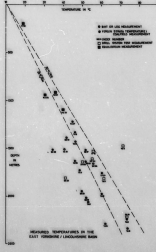
APPENDIX E2

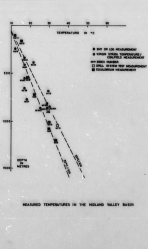
DIAGRAMS OF SELECTED TEMPERATURE DATA

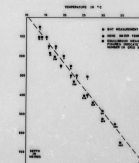
E1. 1 Temperature - depth plots for selected areas

Measured temperatures are plotted against depth for the following areas: the Hampshire basin, the East Yorkshire/Lincolnshire basin, the Midland Valley basin and the Cornish granite. For this purposes the Hampshire and East Yorkshire/Lincolnshire basins have been defined as the areas bounded by the 1-kilometre contour representing the depth to basement beneath Permian-Mesozoic Tertiary cover (see Maps 1 and 2). In the plot for the Midland Valley basin, boreholes situated between the geofractures have been included. Dolomite-lads or log temperatures are only plotted if a 'time since circulation' of more than 3 hours is specified.


TEMPERATURE °C
0
50
100
150
200
250
300
350
400
450
500
550
600
650
700
750
800
850
900
950
1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500
1550
1600
1650
1700
1750
1800
1850
1900
1950


TEMPERATURE IN °C
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
95
100
105
110
115
120
125
130
135
140
145
150
155
160
165
170
175
180
185
190
195

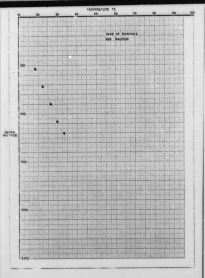

TEMPERATURE IN °C
B 307 IN LOS MOLADONES
B 308A (FINAL TEMPERATURE)
(INITIAL TEMPERATURE)
B 308B
B 309 IN LOS MOLADONES
B 310 IN LOS MOLADONES
B 311 IN LOS MOLADONES
B 312 IN LOS MOLADONES
B 313 IN LOS MOLADONES
B 314 IN LOS MOLADONES
B 315 IN LOS MOLADONES
B 316 IN LOS MOLADONES
B

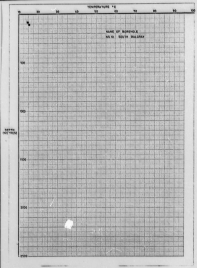

TEMPERATURE IN °C
18
19
20
21
22
23
24
DAY MEASUREMENT
NIGHT MEASUREMENT
MEASURED TEMPERATURE
ASSUMED TEMPERATURE
DEPTH IN METRES
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
340
350
360
370
380
390
400
410
420
430
440
450
460
470
480
490

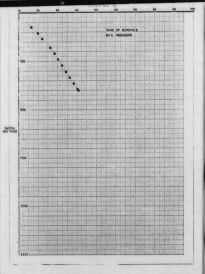
III, 2 Temperature - depth plots for selected individual boreholes

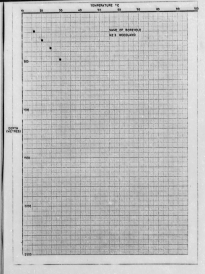
Plots are included for each borehole in which two or more equilibrium or drill stem test measurements of temperature have been made:

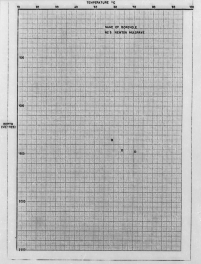
- EQUILIBRIUM MEASUREMENT
- DRILL STEM TEST MEASUREMENT

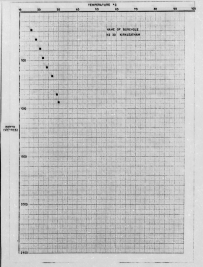

TEMPERATURE °C
MAKE UP BOREHOLE
NEW RAUPUR
DEPTH INCHES

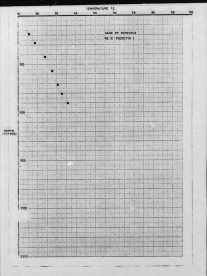

TEMPERATURE °C
MAKE UP BOREHOLE
NEW SOUTH BULLRAY
DEPTH INCHES

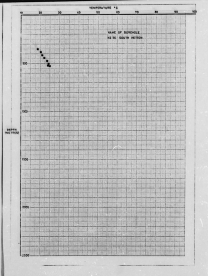

NAME OF BOREHOLE
DEPTH (METRES)

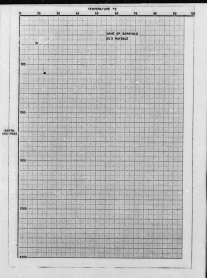

TEMPERATURE °C
NAME OF BOREHOLE
DEPTH (METRES)

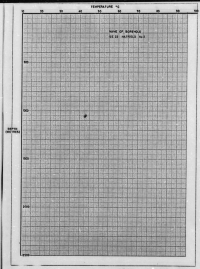

TEMPERATURE °C
NAME OF BOREHOLE
NO'S NEWTON MULGRAVE
DEPTH (METRES)

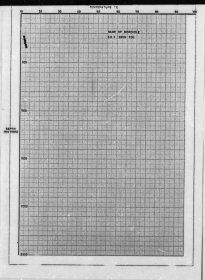

TEMPERATURE °C
NAME OF BOREHOLE
DEPTH (METRES)

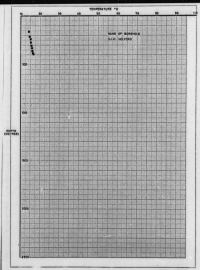

TEMPERATURE °C
VALVE OF BOREHOLE
DEPTH (METRES)

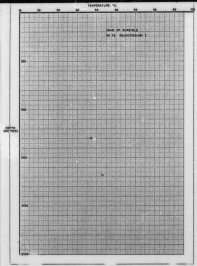

TEMPERATURE °C
VALVE OF BOREHOLE
DEPTH (METRES)

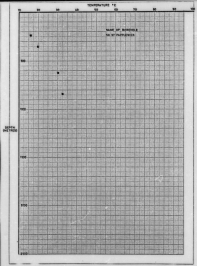

TEMPERATURE °F
NAME OF BOREHOLE
DEPTH (INCHES)

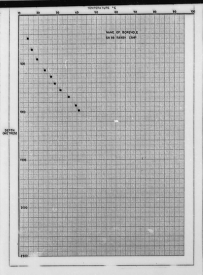

TEMPERATURE °F
NAME OF BOREHOLE
DEPTH (INCHES)

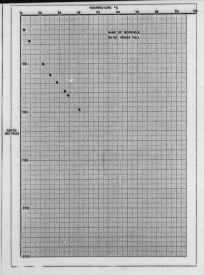

TEMPERATURE °C
NAME OF BOREHOLE

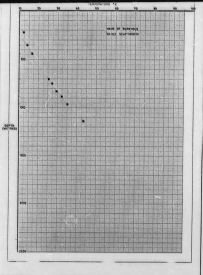

TEMPERATURE °C
NAME OF BOREHOLE

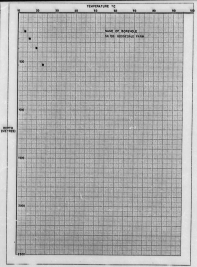

TEMPERATURE °C
NAME OF BOREHOLE
DEPTH (METRES)

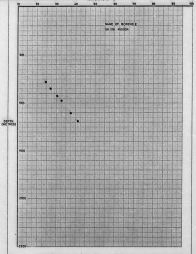

TEMPERATURE °C
NAME OF BOREHOLE
DEPTH (METRES)

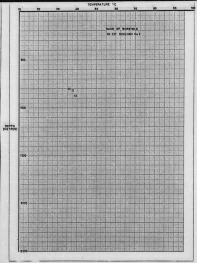

TEMPERATURE °F
MAKE OF BOREHOLE
DEPTH ONE PIECE

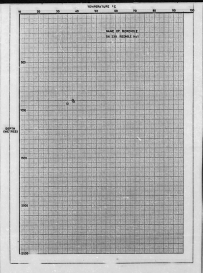

TEMPERATURE °F
MAKE OF BOREHOLE
DEPTH ONE PIECE

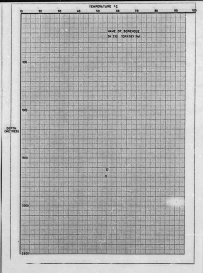

NAME OF BOREHOLE

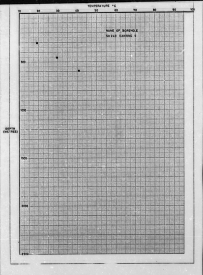

TEMPERATURE °C
NAME OF BOREHOLE

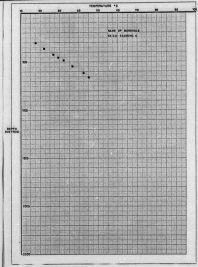


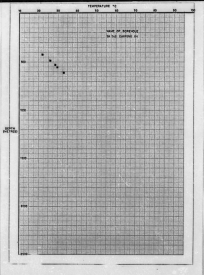

TEMPERATURE °C

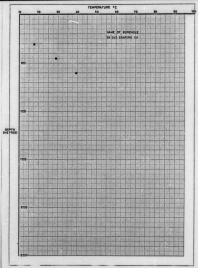

TEMPERATURE °C
DEPTH (INCHES)

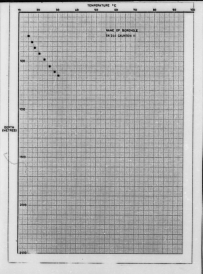

TEMPERATURE °C
DEPTH (INCHES)

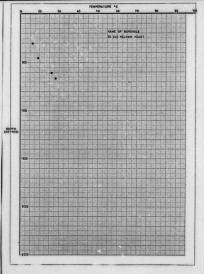


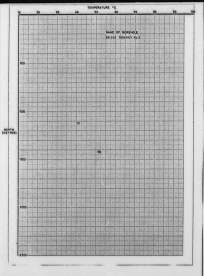


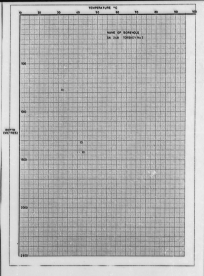

TEMPERATURE °C
DEPTH (METRES)

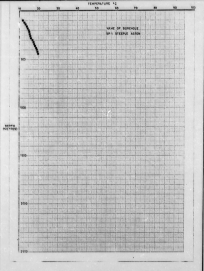

TEMPERATURE °C
DEPTH (METRES)

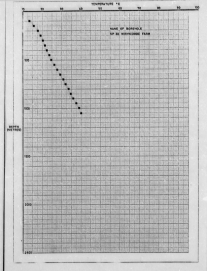

TEMPERATURE °C
NAME OF BOREHOLE
DEPTH (METRES)

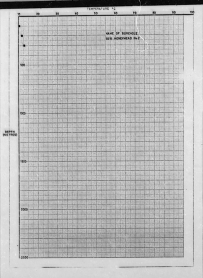

TEMPERATURE °C
NAME OF BOREHOLE
DEPTH (METRES)

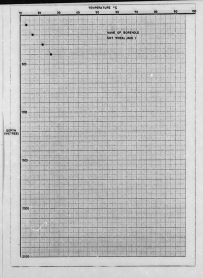

TEMPERATURE °C
NAME OF BOREHOLE

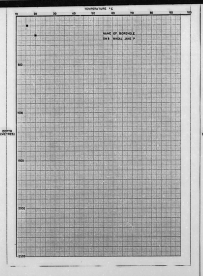

TEMPERATURE °C
NAME OF BOREHOLE

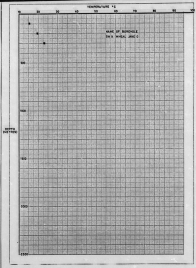

TEMPERATURE °C
NAME OF BOREHOLE
DEPTH
PIETROSI

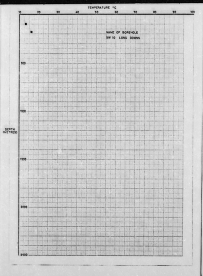

TEMPERATURE °C
NAME OF BOREHOLE
DEPTH
PIETROSI

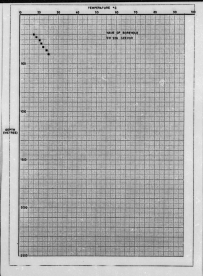

TEMPERATURE °C
NAME OF BOREHOLE
DEPTH (METRES)

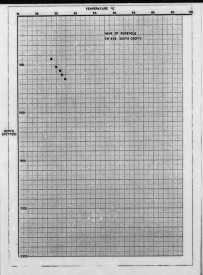

TEMPERATURE °C
NAME OF BOREHOLE
DEPTH (METRES)

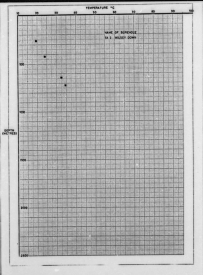

TEMPERATURE °C
NAME OF BOREHOLE
DATE WHEAL JANE P

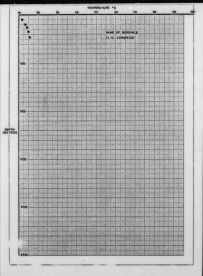

TEMPERATURE °C
NAME OF BOREHOLE
DATE WHEAL JANE C

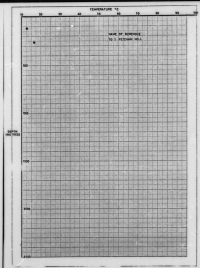

TEMPERATURE °C
NAME OF BOREHOLE
DEPTH (METRES)


TEMPERATURE °C
NAME OF BOREHOLE
DEPTH (METRES)


TEMPERATURE °C
MAIN OF REMOVED
SW 63.5 SOUTH CENTRE
DEPTH (METRES)


TEMPERATURE °C
MAIN OF REMOVED
SW 5 WEST CENTRE
DEPTH (METRES)


TEMPERATURE °C
NAME OF BOREHOLE
DEPTH (INCHES)


TEMPERATURE °C
NAME OF BOREHOLE
DEPTH (INCHES)


1.0
1.1
1.25
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A

24X

TABLE II : HEAT FLOW DATA

Explanation of certain column headings and abbreviations

INDEX NO. as for Table I, in which the grid reference is also given.

INTERVAL OF MEASUREMENT indicates the depth interval over which temperature and conductivity measurements were made and for which the heat flow is calculated.

STRAT. LEVEL stratigraphic level(s) over the interval of measurement. The abbreviations used are the same as for Table I.

LITHOLOGY simplified lithology over the interval of measurement. The following abbreviations are used.

BASA : Basalt	LMST : Limestone
CHLK : Chalk	MDST : Mudstone
DOLR : Dolerite	SDST : Sandstone
GRAN : Granite	SHAL : Shale
HALI : Halite	SLAT : Slate

MEAN TEMP GRAD. °C/KM Mean temperature gradient over the interval of measurement in degrees Centigrade per kilometre. The gradients are not usually the same as those quoted in Table I unless the top of the interval of measurement is at the surface.

THERMAL CONDUCT. thermal conductivity in watts/ (metre degree Centigrade). The mean conductivity is quoted together with the number of samples measured.

HEAT FLOW in milliwatts/square metre. The left hand column gives the calculated heat flow including topographic correction (where applied) but excluding climatic correction. The right hand column includes a climatic correction.

DATA CLASS the meanings of the classifications are given in section 4.2.

WEST FLOW DATA SEDIMENTS (1939)

INDEX NO.	NAME OF BOREHOLE / LOCALITY	INTERVAL OF MEASUREMENT IN METRES TOP	BOT.	STRAT. LEVEL	LITHOLOGY	MEAN TEMP. AT MEAN SEAM	THERMAL CONDUCT. WATER MEAN	HEAT FLOW MEAN	HEAT FLOW MEAN	DATA CLASS	COMMENTS
80 9	BOLFOLK	843	1205	C	SEDIMENTS	18.9	1.82	34	49	B	CONDUCTIVITIES FROM BOREHOLE WATER EST. CONDUCTION 3 SURFACE MP
80 10	SOUTH BALGRAY	0	157	C	-	46.9	1.26	64	77	C	CONDUCTIVITIES DEPENDED FROM MEASUREMENTS
80 12	BLYTHSWOOD	18	106	C	-	36.5	1.43	52	68	C	ON BOREHOLE WALF
81 61	BOLFORD	61	168		MARL	26.4	1.51	5	31	50	A
		168	204		MARL	9.8	0.93	1	28	42	A
		61	204						28	50	A
80 41	HAMMAM	0	275	C	LIME	23.4	1.26	8	30	47	C
				2	257						

MEAN HEAT FLOW VALUE

UNDERVIEW LITHOLOGY

HEAT FLOW DATA ANDERSON (1981)

INDEX NO.	NAME OF BOREHOLE /LOCALITY	INTERVAL OF MEASUREMENT IN METRES TOP	BOT.	STRAT. LEVEL	LITHOLOGY	MEAN TEMP GRAD °C/KM	THERMAL CONDUCT. W/M°C MEAN	NO.	HEAT FLOW MW/M²	MILLIWATT	DATA CLASS	COMMENTS
NO 9	BALFOUR	0	1205	C	SEDIMENT SHAL	19.9	1.80		37	50	B	RECALCULATION OF BOREHOLE CONDUCTIVITIES
NO 10	SOUTH BALMRAY	0	137	C	"	46.9	1.54		72	86	C	-"-
NO 17	BLYTHSWOOD	18	166	C	"	36.5	1.61		59	73	C	-"-
NT 05	BOWLAND	0	1066	CU	"	20.2	1.76	6	40	54	A	
NZ 3A	SOUTH HETTON (DURHAM)	0	529	CU	"	30.6	2.01		62	76	C	CONDUCTIVITIES FROM MEASUREMENTS IN OTHER HOLES
SD001	ROSE BRIDGE (WIGAN)	0	745	CU	"	33.7	1.33		43	56	C	-"-

HEAT FLOW DATA: SULLARD AND KIBLETT 1961

INDEX NO.	NAME OF BOREHOLE /LOCALITY	INTERVAL OF MEASUREMENT IN METRES TOP	INT.	STRAT. LEVEL	LITH-OLOGY	MEAN TEMP GRAD °C/KM	THERMAL CONDUCT. W/M°C MEAN	NO.	HEAT FLOW MW/M	+CLI PAT.	DATA CLASS	COMMENTS
NZ 30	KINGLEYHAM	71	935	J T P	139 603 941	RAAL SOCT SHL. LMIT	31.1	2.29	54*	40	A	* INDICATES TOTAL NO OF CONDUCTIVITY MEASUREMENTS IN ALL BOREHOLES
NZ 31	TOCKETTS	143	966	J T P	355 855 1336	*	27.5	1.80	54*	49	A	
SK240	ENGLISH 5	305	599	T P C	250 359 732	*	74.4	1.54	54*	114	C	POSSIBLY DISTURBED BY WATER FLOW
SK241	ENGLISH 6	305	662	T P CU	247 344 669	*	74.0	1.55	54*	115	C	-"-
SK242	ENGLISH 64	470	611	T P CU	277 398 631	*	66.2	1.37	54*	82	C	-"-
SK243	ENGLISH 141	305	606	T P C	313 326 671	*	72.1	1.67	54*	120	C	-"-
SK244	GRANTON 11	244	650	T P C	265 389 769	*	38.2	1.84	54*	70	A	
SK245	HELMAN HILLS	305	660	T P C	354 437 768	*	34.7	1.77	54*	62	A	

HEAT FLOW DATA: MULLINS AND HENDLEY (1957/8)

INDEX NO.	NAME OF BOREHOLE /LOCALITY	INTERVAL OF MEASUREMENT IN METRES TOP	BOT.	STRAT. LEVEL	LITH-OLOGY	MEAN TEMP GRAD. °C/KM	THERMAL CONDUCT. W/M°C MEAN	NO.	HEAT FLOW MW/M²	+CLI MATE	DATA CLASS	COMMENTS
GK 97	PAPPLEWICK	248	695	CU	SOST MAR. LMST	36.6	NS	26*	75		A	MEANS OF SPECIFIED * INDICATES TOTAL NUMBER OF CONDUCTIVITY MEASUREMENTS IN ALL BOREHOLES
GK 99	RANBY CAMP	0	314	FT	"	20.0						
		314	985	CU	"	38.8						
		246	985		"	35.6	NS	26*	83		A	
GK004	RANBY HALL	0	279	FT	"	32.7						
		279	975	CU	"	36.5						
		254	975		"	34.5	NS	26*	77		A	
GK002	SCAFTWORTH	0	367	FT	"	31.6						
		367	1146	CU	"	38.0						
		225	1146		"	34.6	NS	26*	75		A	
GK005	GOODSDALE	195	536	CU	"	33.6	NS	26*	64		A	
GK216	WISSON	307	1192	CU	"	40.7	NS	26*	85		A	

HEAT FLOW DATA: BOTT ET AL 1972 & CHADWICK 1956 (CAMBRIDGE)

INDEX NO.	NAME OF BOREHOLE VLOCALITY	INTERVAL OF MEASUREMENT IN METRES TOP	BOT.	STRAT LEVEL		LITHOLOGY	MEAN TEMP GRAD °C/KM	THERMAL CONDUCT W/M°C MEAN	NO.	HEAT FLOW MW/M	ACLI RATE	DATA CLASS	COMMENTS
NY 5	ROOKHOPE	427	792			GRAN	31.1	2.94	21	92		A	TEMP. GRADIENT INCLUDES TOPOGRAPHIC CORRECTION OF +1.0°C/KM HEAT FLOW ESTIMATED ACCURATE WITHIN 2%
NZ 3	WOODLAND	178	400	CU	500		46.9			96		B	
				CL	469	SDST		4.0	24				
						LMST		2.8	2				
						DOLM		2.2	1				
						CHGL		1.4					CONDUCTIVITY VALUE OF BULLARD & NIBLETT USED FOR SHALE
NZ 3A	SOUTH HETTON	055	529	CU			56.2			58		C	RECALCULATION OF DATA USED BY ANDERSON TO EXCLUDE ADDEPER IN PERMIAN BULLARD & NIBLETT CONDUCTIVITIES USED
						SDST		3.77					
						SHAL		1.36					
						COAL		0.237					
TL 12	CAMBRIDGE	130	236	CL			14.5		16	54	62	A	CHADWICK 1956

HEAT FLOW DATA: TIMMERMAN AND WHEELDON (1974,1979)

INDEX NO.	NAME OF BOREHOLE /LOCALITY	INTERVAL OF MEASUREMENT IN METRES TOP	BOT.	STRAT. LEVEL	LITHOLOGY	MEAN TEMP GRAD. °C/KM	THERMAL CONDUCT. W/M°C MEAN	NO.	HEAT FLOW MW/M	+CLIMATE	DATA CLASS	COMMENTS
13 1	PORTMORE	663	608	DO 77 K 568 J 437 DO 665	DOLM			16	80	67	A	
NT 7	MARSHALL MEADOWS	152	103	CU	LMST SSST	16.0	3.17	15	51		A	
GS 14	STUDY BOLTON (BOR 6)	9	73	DU	SSST	16.0	3.66	16	55	59	A	
SS 15	HONEYMEAD NO 2 (SOS 2)	39	296	DU	SLAT SSST LMST	12.9	4.00	13	54	57	A	
GT 7	CURRYFOOL FARM	9	182	D		18.0	2.77	25	50		A	
SW 6	WHEAL JANE E	39	143	DL	SLAT SILT	47.2	2.09	19	156	145	A	LOCATED OVER LARGE UNDERLYING GRANITE INTRUSIVE
SW 8	WHEAL JANE F	39	368	DL	"	42.3	2.99	15	126	134	A	-"-
SW 9	WHEAL JANE G	39	300	DL	"	42.0	2.73	15	113	120	A	-"-
SW 10	LONGSTONE	39	182	F	GRAN	36.8	3.13	50	105	116	A	INCLUDES TOPOGRAPHIC CORRECTION
SW30	GEEVOR MINE	124	402	F	"	37.9	3.39	31	129	135	A	-"-
SW30	SOUTH CROFTY	440	650	F	"	35.8	3.60	57	129	130	A	-"-

HEAT FLOW DATA: TAMMEMAGI AND WHEELDON (CONT.)

INDEX NO.	NAME OF BOREHOLE /LOCALITY	INTERVAL OF MEASUREMENT IN METRES TOP	BOT.	STRAT. LEVEL	LITH-OLOGY	MEAN TEMP. GRAD. °C/KM	THERMAL CONDUCT. W/M°C MEAN	NO.	HEAT FLOW MW/M	+CLI RATE	DATA CLASS	COMMENTS
SK 2	WILSEY DOWN	30	726	C D C	461 700 726	SLAT	30.5	2.21	97	67	74	A	INCLUDES TOPOGRAPHIC CORRECTION
TL 4	HUNTINGDON	152	244	J T HD	151 172 295		15.9	3.37	10	38		A	
TS 3	PETCHAR HILL	152	260	PU		CHLK	27.0	1.97	14	53		B	CONDUCTIVITY UNDER REVIEW

HEAT FLOW DATA: DUBSON AND RICHARDSON

INDEX NO.	NAME OF BOREHOLE OR LOCALITY	START TYP	START LATEN	LONG- ITUDE	NEAR- EST TOWN	THERMAL CONDUCTIVITY W/M °K	HEAT FLOW MW/M²	DATA QUALITY	COMMENTS
52 33	WOLLEY MINE	TPP	1087	F	MARL	11.0 ± 2.0	20 ± 7	42 ± 17	A TEMPERATURES MEASURED DURING SHAFT SINKING
53 5	RAVENSLE	TSD	1953		OMAN	19.5 ± 0.5	25 ± 0.5	48 ± 2	B SANDS AND SHALES HOLE. WATER FLOW IN LIMESTONE BELOW 1000 FT. READINGS NOT ABOVE WATER LEVEL. GRANITE INCLUDED. TOPOGRAPHIC CORRECTION APPLIED
53 9	KINHAM	TS	400	T	SSVY	37.2 ± 1%		71	B WATER BOUND HOLE ESTIMATED CONDUCTIVITY.
54 68	NORTH DUFFIELD	RTS	965	C	WEST CORT	4.24 ± 1.38	40 ± 13	40	A TEMPERATURES MEASURED DURING BREAKS IN DRILLING
55 17	SCOPWITH	TS	719	T	SSVY	44.9 ± 2%		86	B WATER BOUND HOLE ESTIMATED CONDUCTIVITY
55 45	SCRAITH RIGGS	TS	145	T	SSVY	39.0 ± 2%		59	B WATER BOUND HOLE ESTIMATED CONDUCTIVITY
55 69	WETHERBY HMR	TS	195	T	SSVY	44.7 ± 2%		59	B WATER BOUND HOLE ESTIMATED CONDUCTIVITY
56 1	HOUGHS	TA	640	N	MEST	19.9 ± 0.6	31 ± 0.9	36 ± 2	A CASED AND SEALED HOLE
56 3	BURN TES	B	360	E	SSVY	10.9 ± 4.23		25	A CASED AND SEALED HOLE. ESTIMATED CONDUCTIVITY INCLUDES TOPOG. CORR.
			16	44	SSVY	10.9 ± 4.23		44	A CASED AND SEALED HOLE. INCLUDES TOPOG. CORR. - 1.2MW/M
		TPP	340			10.9 ± 1.6	8	41	B

INDEX NO.	NAME OF BOREHOLE OR LOCALITY	DISTANCE OF BOREHOLE FROM REFERENCE TYP	EXIT POINT	LITHOLOGY OF EXPOSURE	MEAN ANNUAL SURF. TEMP. °C/GR	THERMAL CONDUCTIVITY OF ROCK REGIME NO.	HEAT FLOW DENSITY mW.m-2	DATA CLASS	COMMENTS
68	4 COCH-1-BRENTS	200	600	S	METAS	13.2 2.4L 1.22	23	A	CASED AND DRILLED HOLE INCLUDES ~1 UNLITH TYPOG CORR.
69	DJ 37 BRADLEY HILL	70	170	FT	SSST	10.0 3.32	50	C	WATER BOARD HOLE ESTIMATED CONDUCTIVITY
70	38 CLIFTON	10	305	FT	SSST	9.9 3.32	33	C	WATER BOARD HOLE ESTIMATED CONDUCTIVITY
71	39 CRANSDALE	75	470	FT	SSST	7.9 3.32	25	C	WATER BOARD HOLE ESTIMATED CONDUCTIVITY
72	40 FITCHES WELLS	10	340	FT	SSST	11.0 3.32	39	C	WATER BOARD HOLE ESTIMATED CONDUCTIVITY
73	42407 EVAM	82	412	C	LMST	5.1 3.47	17	C	CASED, NOT DRILLED ESTIMATED CONDUCTIVITY THERMAL GRADIENT INTERPOLATED ESTIMATED CONDUCTIVITY
74	3C241 LOWS BENINGTON	35	230	FT	SSST	27.8 3.32	90	C	WATER BOARD HOLE ESTIMATED CONDUCTIVITY
75	3C293 CORTONHAM	40	395	J T	SSST	24.7 1.76	43	B	WATERBOARD HOLE ESTIMATED CONDUCTIVITY
76	3H 11 WLAMFORD	281	304	S	PRST	23.0 2.17 2.9 1.20 2.30	59 114	A	CROSS AND DRILLED HOLE. TWO REGIME CORR. +4 UNLITH

HEAT FLOW DATA: OSBORN AND NICHAMOSON (CONT.)

INDEX NO.	NAME OF BOREHOLE /LOCALITY	INTERVAL OF MEASUREMENT IN METRES TOP	BOT.	STRAT. LEVEL	LITH-OLOGY	MEAN TEMP GRAD °C/KM	THERMAL CONDUCT. W/M°C MEAN	NO.	HEAT FLOW MW/M	HOLE MATE	DATA CLASS	COMMENTS
SO 14	MALVEN OAKWORKS	35	245	T	SDST	16.2	2.05		33		C	WATER BOARD HOLE. ESTIMATED CONDUCTIVITY
SP 1	STEPLE ASTON	166	439	C	MDST SDST	17.4	2.63	7	46		A	CASED AND SEALED HOLE HEAT FLOW CALCULATED FROM 7 SPECIFIC INTERVALS
SP 30	WITHYCOMBE FARM	841	1060	S	MDST BASA	25.4	2.05 0.69	15	60 ±11		A	CASED AND SEALED HOLE
SP 41	THORPE BY WATER	200	360	O	SILT	15.7	3.64 0.35	32	56 ±10		A	CASED AND SEALED HOLE INCLUDES TOPOG. CORR. -0.05W/M
SP 62	CROFT	202	324		GRAN	12.5	2.92 0.97	20	37 ±2		A	UNCASED HOLE IN IMPERMEABLE GRANITE
SU 25	FAIR CROSS	95	350	K	CHLK	29.0	1.91		59		B	WATER BOARD HOLE ESTIMATED CONDUCTIVITY
SU 26	BARTON STACEY	84	269	K	CHLK	22.6	1.91		42		C	WATER BOARD HOLE ESTIMATED CONDUCTIVITY
SU 27	CLUMPHILL	110	400	K	CHLK	38.9	1.91		67		C	WATER BOARD HOLE ESTIMATED CONDUCTIVITY
SU 65	VERNHAM DEAN	60	115	K	CHLK	13.5	1.91		25		C	WATER BOARD HOLE ESTIMATED CONDUCTIVITY

HEAT FLOW DATA: CHURCH AND RICHARDSON (CONT.)

INDEX NO.	NAME OF BOREHOLE /LOCALITY	INTERVAL OF MEASUREMENT IN METRES TOP	INT.	STRAT. LEVEL	LITH-OLOGY	MEAN TEMP GRAD. °C/KM	THERMAL CONDUCT. W/M°C MEAN	NO.	HEAT FLOW MW/M²	±CI MW/M²	DATA CLASS	COMMENTS
ST 30	WEST LAVINGTON	80	152	J	CLAY	36.9	1.28		46		C	CASED AND SEALED HOLE ESTIMATED CONDUCTIVITY
TF 30	STONEGOT	80	195	J	CLAY	50.0	1.28 0.34	10	75 ±27		A	CASED AND SEALED HOLE
TO 3	TRUNCH	330	630	K J T	512 633 651	MOST	53.0	1.18 1.14	9	63 ±14		A	CASED AND SEALED HOLE HEAT FLOW IN UPPER PART (THROUGH CHALK) SIGNIFICANTLY LESS

TABLES IIA AND IIB - GEOCHEMICAL DATA

The geochemical data are presented in two halves; the first (Table IIA) provides site data, sample description and the major element analyses, the second (Table IIB) gives the chemical geothermometers plus that information necessary to qualify them e.g. T°C, total dissolved solids, SiO_2. The data are arranged by national grid squares as in Table I, and those sites for which there are both temperature and geochemical data are identified by an asterisk in Table IIA. Only partial listing of the data stored on file is presented in this report for most sites.

TABLE IIA

INDEX the NGS hydrochemical data file number

NAME OF BOREHOLE/LOCALITY abbreviated site description

NAT. GRID REF. UK national grid reference to 10 figures where available.

DEPTH. M. WELL in the case of a borehole this represents the total drilled depth in metres, except where it is known that a shallower depth obtains due to silting or sawing.

DEPTH. M. SMPL depth in metres, of sample below ground level. In the case of depth samples or interstitial waters this refers to the specific interval sampled. In the case of drill-stem tests the centre of the tested interval is signified. In the case of pumped samples the indicated depth generally refers to the base of any solid borehole casing.

DATE month and year in which chemical analysis was carried out - thus, 0474 refers to April 1974.

TYPE Code refers to sample source as follows:

- 02 - spring
- 05 - borehole, well (undifferentiated)
- 09 - depth sample
- 10 - pumped sample
- 11 - artesian overflow
- 12 - surface mine drainage (adit)
- 13 - underground mine drainage
- 15 - interstitial
- 26 - thermal spring
- 27 - drill stem test

NA, K, CA etc Chemical analyses in milligrams per litre (mg/l).

INDEX	NAME OF TOPOFFICE	NAT. GEST	DEPTH/M	DATE TYPE					MAN-YEARS		KILLEDWOUNDED FOR LIFE		CL
	NAME OF SUBSIDIARY	NO.	DIAMETER		MM				TOTAL		MISS	WOUN	
1	176 FOR SPINNING MID S	1	3871	1984	1237	73	19.4	46	32.0	225.0	0.0	678	1
	176 TOP MILLIMETER SEC	1	3871	1984	1237	73	9.0	13	9.0	244.0	7	59	
2	176 TOP MILLIMETER SEC	1	3871	1984	1237	73	9.0	13	9.0	244.0	7	59	
3	176 FOR STRUCTURE MID	1	3871	1984	1237	73	9.0	13	9.0	244.0	7	59	
4	74327 LITHELL SHOP OF DAMA	NO 13	10		09	225	7.8	84	17.2	66.0	15	1097	
5	74327 LITHELL SHOP OF DAMA	NO 13	10		09	225	7.8	84	17.2	66.0	15	1097	
6	74327 LITHELL SHOP OF DAMA	NO 13	10		09	225	7.8	84	17.2	66.0	15	1097	
7	154837 SA SHOPPING MID OF	1	3871	1984	1237	73	9.0	13	9.0	244.0	7	59	
	154837 SA SHOPPING NO 16	53	5144MM	993	679	8707	1.0	1	1.0	1.0	0.0	0.0	1
8	74327 LITHELL SHOP OF DAMA	NO 13	10		09	225	7.8	84	17.2	66.0	15	1097	
9	74327 FALLEN FIT SEC S	1	3871	1984	1237	73	9.0	13	9.0	244.0	7	59	
10	74327 LITHELL SHOP OF DAMA	NO 13	10		09	225	7.8	84	17.2	66.0	15	1097	
	74326 THIRTY SHOPP ALIGN	NO 60	3877X291	1602	1237	95	14.3	74	25.1	132.1	5	34	
	74326 THIRTY SHOPP ALIGN	NO 60	3877X291	1602	1237	95	14.3	74	25.1	132.1	5	34	
	74326 CAMPBEL EFFICIENT	1	3877	1602	1237	95	14.3	74	25.1	132.1	5	34	
	74326 ENGINEER CLAY LOADER	NO 59	90	1940	17	644							
11	74326 MOORE LINE FINISH	NO 59	90		17	644	19.9	185	37.5	311.0	7.0	1096	
	74326 MOORE LINE FINISH	1	3877	1602	1237	95	14.3	74	25.1	132.1	5	34	
	74326 THIRTY SHOPP ALIGN	NO 60	3877X291	1602	1237	95	14.3	74	25.1	132.1	5	34	
	77407 KIMBEL CRAJ-FIPE	NO 59378295		703	6474	13	19300	227	9.91	1607.0	25.0		
	77407 KIMBEL CRAJ-FIPE	NO 59378295		703	6474	13	19300	227	9.91	1607.0	25.0		37304
	77407 KIMBEL CRAJ-FIPE	NO 59378295		703	6474	13	19300	227	9.91	1607.0	25.0		37304
	77407 KIMBEL CRAJ-FIPE	NO 59378295		703	6474	13	19300	227	9.91	1607.0	25.0		37304
	77408 VALLEYBOIS CYLINDRY	NO 59268880		764	6509	14	14561	184	9.41	1621.0	24.0		45308
	77408 VALLEYBOIS CYLINDRY	NO 59268880		764	6509	14	14561	184	9.41	1621.0	24.0		45308
	77408 VALLEYBOIS CYLINDRY	NO 59268880		764	6509	14	14561	184	9.41	1621.0	24.0		45308
	77409 CASTLEVILL CRAJ-FIPE	NO 59379715		361	1159	10	97	2	9.9	13.9	2.0	0	45
	77409 CASTLEVILL CRAJ-FIPE	NO 59379715		361	1159	10	97	2	9.9	13.9	2.0	0	45
	77409 CASTLEVILL CRAJ-FIPE	NO 59379715		361	1159	10	97	2	9.9	13.9	2.0	0	45
	77410 CASTLEVILL CRAJ-FIPE	NO 59379715		41	1159	10	97	2	9.9	65.9	2.0	0	25
	77410 CASTLEVILL CRAJ-FIPE	NO 59379715		41	1159	10	97	2	9.9	65.9	2.0	0	25
	77410 CASTLEVILL CRAJ-FIPE	NO 59379715		361	1159	10	97	2	9.9	13.9	2.0	0	45
	77411 KIMBEL CRAJ-FIPE	NO 59378295		703	6474	13	19300	227	9.91	1607.0	25.0		
	77411 KIMBEL CRAJ-FIPE	NO 59378295		703	6474	13	19300	227	9.91	1607.0	25.0		
	77411 KIMBEL CRAJ-FIPE	NO 59378295		703	6474	13	19300	227	9.91	1607.0	25.0		
	77412 SOLSKYTH CYLINDRY	NO 59378295		703	6474	13	19300	227	9.91	1607.0	25.0		
	77412 SOLSKYTH CYLINDRY	NO 59378295		703	6474	13	19300	227	9.91	1607.0	25.0		
	77412 SOLSKYTH CYLINDRY	NO 59378295		703	6474	13	19300	227	9.91	1607.0	25.0		
	77412 SOLSKYTH CYLINDRY	NO 59378295		703	6474	13	19300	227	9.91	1607.0	25.0		
	77413 KIMBEL CRAJ-FIPE	NO 59378295		703	6474	13	19300	227	9.91	1607.0	25.0		
	77413 KIMBEL CRAJ-FIPE	NO 59378295		703	6474	13	19300	227	9.91	1607.0	25.0		
	77413 KIMBEL CRAJ-FIPE	NO 59378295		703	6474	13	19300	227	9.91	1607.0	25.0		
	77413 KIMBEL CRAJ-FIPE	NO 59378295		703	6474	13	19300	227	9.91	1607.0	25.0		
	477294 BOSTIE CYLINDRY	NO 59268718		257	1078	10	490	10	9.22	39.0	1.0	0	1171
	477294 BOSTIE CYLINDRY	NO 59268718		257	1078	10	490	10	9.22	39.0	1.0	0	1171
	477294 BOSTIE CYLINDRY	NO 59268718		257	1078	10	490	10	9.22	39.0	1.0	0	1171
	477294 BOSTIE CYLINDRY	NO 59268718		257	1078	10	490	10	9.22	39.0	1.0	0	1171
	477294 BOSTIE CYLINDRY	NO 59268718		257	1078	10	490	10	9.22	39.0	1.0	0	1171
	477294 BOSTIE CYLINDRY	NO 59268718		257	1078	10	490	10	9.22	39.0	1.0	0	1171
	477294 BOSTIE CYLINDRY	NO 59268718		257	1078	10	490	10	9.22	39.0	1.0	0	1171
	477294 BOSTIE CYLINDRY	NO 59268718		257	1078	10	490	10	9.22	39.0	1.0	0	1171
	477294 BOSTIE CYLINDRY	NO 59268718		257	1078	10	490	10	9.22	39.0	1.0	0	1171
	477294 BOSTIE CYLINDRY	NO 59268718		257	1078	10	490	10	9.22	39.0	1.0	0	1171

INDEX	NAME OF GENERATOR	MAT. (FT)	DEPTH.M	DATE TYPE			AVAILFIGS. FOLLOWGENERATOR FOR 1 ITEM				
	MFG' SERV	GEN			HR		CA	MO	HOUR	GAL	CL
+7702W	WISHMOLDE COLLIERY	NO 5D217306	485	04/73 ID	2001	24.0	141	99.0	287.0		4785
+7703W	WISHMOLDE COLLIERY	NO 5D217310	485	04/73 ID	2001	24.0	141	99.0	287.0	0	21247
+7704W	WISHMOLDE COLLIERY	NO 5D220110	421	04/73 ID	2475	78.0	93	99.0	277.0	1962.0	0
+7705W	WISHMOLDE COLLIERY	NO 5D220112	421	04/73 ID	2475	78.0	93	99.0	277.0	1962.0	0
+7706W	WISHMOLDE COLLIERY	NO 5D231108	395	04/73 ID	2565	22.0	91	99.0	301.0	1554.0	4671
+7707W	WISHMOLDE COLLIERY	NO 5D231109	395	04/73 ID	2565	22.0	91	99.0	301.0	1554.0	3886
+7708W	SHERRY COLLIERY	NO 5D217307	485	11/73 ID	1885	24.0	141	99.0	287.0	0	4785
+7709W	SHERRY COLLIERY	NO 5D217311	485	11/73 ID	1885	24.0	141	99.0	287.0	0	21247
+7710W	SHERRY COLLIERY	NO 5D220111	421	11/73 ID	2475	78.0	93	99.0	277.0	1962.0	0
+7711W	SHERRY COLLIERY	NO 5D220113	421	11/73 ID	2475	78.0	93	99.0	277.0	1962.0	0
+7712W	SHERRY COLLIERY	NO 5D231107	395	11/73 ID	1885	22.0	91	99.0	301.0	1554.0	4671
+7713W	SHERRY COLLIERY	NO 5D231110	395	11/73 ID	1885	22.0	91	99.0	301.0	1554.0	3886
+7714W	CLAJOH COLLIERY	NO 4YFF2114	422	03/74 ID	1930	7.0	89	94.0	429.0	0	2677
+7715W	CLAJOH COLLIERY	NO 4YFF2115	422	03/74 ID	1930	7.0	89	94.0	429.0	21.0	2677
+7716W	CLAJOH COLLIERY	NO 5D231112	395	03/74 ID	1885	9.0	175	99.0	429.0	0	3886
+7717W	CLAJOH COLLIERY	NO 5D231113	395	03/74 ID	1885	9.0	175	99.0	429.0	39.0	3886
+7718W	CLAJOH COLLIERY	NO 5D231114	395	03/74 ID	1885	9.0	175	99.0	429.0	39.0	3886
+7719W	PELSTREET COLLIERY	NO 5D217312	485	05/74 ID	1885	24.0	141	99.0	287.0	0	4785
+7720W	PELSTREET COLLIERY	NO 5D217313	485	05/74 ID	1885	24.0	141	99.0	287.0	0	21247
+7721W	PELSTREET COLLIERY	NO 5D220114	421	05/74 ID	2475	78.0	93	99.0	277.0	1962.0	0
+7722W	PELSTREET COLLIERY	NO 5D220115	421	05/74 ID	2475	78.0	93	99.0	277.0	1962.0	0
+7723W	PELSTREET COLLIERY	NO 5D231115	395	05/74 ID	1885	22.0	91	99.0	301.0	1554.0	4671
+7724W	PELSTREET COLLIERY	NO 5D231116	395	05/74 ID	1885	22.0	91	99.0	301.0	1554.0	3886
+7725W	PELSTREET COLLIERY	NO 5D231117	395	05/74 ID	1885	22.0	91	99.0	301.0	1554.0	3886
+7726W	PELSTREET COLLIERY	NO 5D231118	395	05/74 ID	1885	22.0	91	99.0	301.0	1554.0	3886

INDEX	NAME OF SEMIVALVE /CLOCK/ITY	HAS GRID Y/N	DEPTH-R /STRIKE	DATE TYPE						AVAILIBEL WILLIAMSBURG FOR LITHP CAR	RE	ACCES	SAL
341220	CHEAPWAY LOVEROCK	N	12870752	1935		4195	57	94		538	57.0	58.5	594.
341221	CHEAPWAY LOVEROCK	N	12870752	1935		4195	57	94		538	57.0	58.5	594.
341222	ARENA SANFORD	Y	18080155	1935		4195	57	94		538	57.0	58.5	594.
174240	ROLLIN CROSS RD 1 VER	N	42925265	1631	1291	0746	27	40000	200.0	1326	57.5	1375.0	5748.
174241	ROLLIN CROSS RD 2 VER	N	42925265	1631	1291	0746	27	40000	200.0	1326	57.5	1375.0	5748.
174242	ROLLIN CROSS RD 3 VER	N	42925265	1631	1291	0746	27	40000	200.0	1326	57.5	1375.0	5748.
174243	MEATIN PLAINVALE RD 1	N	77291963	2008	1724	0745	27	111271	125.4	2254	954.5	34.5	4000.
174244	MEATIN PLAINVALE RD 2	N	77291963	2008	1724	0745	27	111271	125.4	2254	954.5	34.5	4000.
174245	HARTEN RD 1	N	91446562	1424	1607	0940	27	66587	770.0	10956	1776.0	19.5	421.
174246	HARTEN RD 2	N	91446562	1424	1607	0940	27	66587	770.0	10956	1776.0	19.5	421.
341243	HARTEN RD 3	N	91446562	1424	1607	0940	27	66587	770.0	10956	1776.0	19.5	421.
341244	HIGHWAY COLLEY	N	4	1935		4195	57	94		538	57.0	58.5	594.
341245	HIGHWAY COLLEY	N	4	1935		4195	57	94		538	57.0	58.5	594.
341246	HIGHWAY COLLEY	N	4	1935		4195	57	94		538	57.0	58.5	594.

INDEX	NAME OF SUBDIVISION	NET SALES	DIFFERENCE	DATE TYPE	MAN-YEARS		STILL DRAWINGS	PER LITTLE
	NUMBER	1987	1986 - 1987		1987	1986	1987	1986
4761439	ROSEDALE NO 1 YORKS	8514.0	1695	1975	1695	1695	1695	1695
4771133	STEWART	83.0	1759	9574	09	83.0	560	14420
4761439	ROSEDALE NO 1 YORKS	83.0	83.0	1975	1695	1695	1695	1695
4761439	ROSEDALE NO 1 YORKS	8514.0	1695

INDEX	NAME OF SEDIMENTARY (ACCESS)	NAT.GRID REFERENCE	DEPTH,M. MEAN	DATE TYPE	MEAN	ANALYSES, WEIGHT PERCENTAGES BY LITHE SAND	MUD	GRAVEL	CaCO3
1	27 270 TRENCH 28 TRENCH 28	TM 7280 2170	1000	1972 TS					
2	210 SHINGLES (CHANNEL)	TM 7282 2170	600	1972 TS	13.0	9	1.0	48.0	21
3	211 STONE BANK	TM 7284 2170		1972 TS		9	1.0	48.0	21
4	34 214 STONE BANK(SE) TM 7284 2170			1972 TS		9	1.0	48.0	21
5	34 212 CLYDE BANK (E)	TM 7284 2170		1972 TS		9	1.0	48.0	21
6	34 213 CLYDE BANK (W)	TM 7284 2170		1972 TS		9	1.0	48.0	21
7	34 215 CLYDE BANK (N)	TM 7284 2170		1972 TS		9	1.0	48.0	21
8	34 216 CLYDE BANK (S)	TM 7284 2170		1972 TS		9	1.0	48.0	21
9	217 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
10	218 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
11	219 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
12	220 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
13	221 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
14	222 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
15	223 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
16	224 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
17	225 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
18	226 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
19	227 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
20	228 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
21	229 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
22	230 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
23	231 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
24	232 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
25	233 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
26	234 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
27	235 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
28	236 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
29	237 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
30	238 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
31	239 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
32	240 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
33	241 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
34	242 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
35	243 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
36	244 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
37	245 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
38	246 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
39	247 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
40	248 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
41	249 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
42	250 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
43	251 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
44	252 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
45	253 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
46	254 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
47	255 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
48	256 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
49	257 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
50	258 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
51	259 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
52	260 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
53	261 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
54	262 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
55	263 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
56	264 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
57	265 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
58	266 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
59	267 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
60	268 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
61	269 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
62	270 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
63	271 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
64	272 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
65	273 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
66	274 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
67	275 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
68	276 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
69	277 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
70	278 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
71	279 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
72	280 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
73	281 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
74	282 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
75	283 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
76	284 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
77	285 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
78	286 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
79	287 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
80	288 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
81	289 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
82	290 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
83	291 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
84	292 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
85	293 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
86	294 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
87	295 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
88	296 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
89	297 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
90	298 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
91	299 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
92	300 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
93	301 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
94	302 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
95	303 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
96	304 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
97	305 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
98	306 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
99	307 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
100	308 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
101	309 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
102	310 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
103	311 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
104	312 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
105	313 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
106	314 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
107	315 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
108	316 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
109	317 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
110	318 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
111	319 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
112	320 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
113	321 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
114	322 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
115	323 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
116	324 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
117	325 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
118	326 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
119	327 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
120	328 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
121	329 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
122	330 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
123	331 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
124	332 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
125	333 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
126	334 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
127	335 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
128	336 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
129	337 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
130	338 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
131	339 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
132	340 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
133	341 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
134	342 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
135	343 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
136	344 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
137	345 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
138	346 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
139	347 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
140	348 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
141	349 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
142	350 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
143	351 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
144	352 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
145	353 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
146	354 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
147	355 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
148	356 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
149	357 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
150	358 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
151	359 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
152	360 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
153	361 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
154	362 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
155	363 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
156	364 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
157	365 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
158	366 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
159	367 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
160	368 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
161	369 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
162	370 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
163	371 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
164	372 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
165	373 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
166	374 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
167	375 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
168	376 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
169	377 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
170	378 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
171	379 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
172	380 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
173	381 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
174	382 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
175	383 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
176	384 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
177	385 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
178	386 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
179	387 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
180	388 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
181	389 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
182	390 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
183	391 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
184	392 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
185	393 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
186	394 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
187	395 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
188	396 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
189	397 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
190	398 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
191	399 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
192	400 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
193	401 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
194	402 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
195	403 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
196	404 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
197	405 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
198	406 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
199	407 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
200	408 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
201	409 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
202	410 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
203	411 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
204	412 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
205	413 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
206	414 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
207	415 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
208	416 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
209	417 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
210	418 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
211	419 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
212	420 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
213	421 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
214	422 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
215	423 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
216	424 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
217	425 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
218	426 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
219	427 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
220	428 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
221	429 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
222	430 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
223	431 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
224	432 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
225	433 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
226	434 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
227	435 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
228	436 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
229	437 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
230	438 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
231	439 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
232	440 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
233	441 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
234	442 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
235	443 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
236	444 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
237	445 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
238	446 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
239	447 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
240	448 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
241	449 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
242	450 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
243	451 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
244	452 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
245	453 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
246	454 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
247	455 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
248	456 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
249	457 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
250	458 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
251	459 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
252	460 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
253	461 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
254	462 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
255	463 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
256	464 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
257	465 CLYDE BANK (SW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
258	466 CLYDE BANK (NW)	TM 7284 2170		1972 TS		9	1.0	48.0	21
259	467 CLYDE BANK (NE)	TM 7284 2170		1972 TS		9	1.0	48.0	21
260	468 CLYDE BANK (SE)	TM 7284 2170		1972 TS		9	1.

INDEX	NAME OF SUBSTATION	MAP GRID	DEPTH-M	RATE TYPE	ANNU-VOLTS			HOLD-DOWNNESS PER LITRE			
	ALPHA-CITY	REF	MEAN		MN	N	MX	MN	MEAN	MAX	CL
+314242	RANDOLL MD 1	32	64725814	1941	1263	9545	27	2242	47	70	1696.0
+314243	RANDOLL MD 2	32	64725814	1941	1263	9545	27	2242	47	70	1696.0
+314244	NORTHS SEC 1	32	64725814	1941	1263	9545	27	2242	47	70	1696.0
+314245	SAINSBURIANS NO 57	32	60297473	1935	1035	5149	27	2065	171	7720	1916.0
+314246	SYDNEYSIDE MD 1	32	60297473	1935	1035	5149	27	2065	171	7720	1916.0
+314247	SYDNEYSIDE MD 2	32	60297473	1935	1035	5149	27	2065	171	7720	1916.0
+314248	SYDNEYSIDE MD 3	32	60297473	1935	1035	5149	27	2065	171	7720	1916.0
+314249	NEW-SHEARN MD 1	32	73157937	1886	5620	8540	27	17501	218	4.1595	1990.0
+314250	NEW-SHEARN MD 2	32	73157937	1886	5620	8540	27	17501	218	4.1595	1990.0
+314251	WALLSTREAMAN MD 1	32	73157937	1886	5620	8540	27	17501	218	4.1595	1990.0
+314252	WALLSTREAMAN MD 2	32	73157937	1886	5620	8540	27	17501	218	4.1595	1990.0
+314253	WALLSTREAMAN MD 3	32	73157937	1886	5620	8540	27	17501	218	4.1595	1990.0
+314254	PERCEY MD 1	32	95290911	1934	1185	5124	27	19285	251	9.0221	1272.0
+314255	PERCEY MD 2	32	95290911	1934	1185	5124	27	19285	251	9.0221	1272.0
+314256	PERCEY MD 3	32	95290911	1934	1185	5124	27	19285	251	9.0221	1272.0
+314257	PERCEY MD 4	32	95290911	1934	1185	5124	27	19285	251	9.0221	1272.0
+314258	PERCEY MD 5	32	95290911	1934	1185	5124	27	19285	251	9.0221	1272.0
+314259	PERCEY MD 6	32	95290911	1934	1185	5124	27	19285	251	9.0221	1272.0
+314260	GLENAVON MD 1	32	80837290	936	952	6422	27	1833	21	925	81.0
+314261	GLENAVON MD 2	32	80837290	936	952	6422	27	1833	21	925	81.0
+314262	GLENAVON MD 3	32	80837290	936	952	6422	27	1833	21	925	81.0
+314263	GLENAVON MD 4	32	73135844	1433	1502	6941	27	21446	304	9.3231	386.0
+314264	GLENAVON MD 5	32	73135844	1433	1502	6941	27	21446	304	9.3231	386.0
+314265	GLENAVON MD 6	32	73135844	1433	1502	6941	27	21446	304	9.3231	386.0
+314266	GLENAVON MD 7	32	73135844	1433	1502	6941	27	21446	304	9.3231	386.0
+314267	GLENAVON MD 8	32	73135844	1433	1502	6941	27	21446	304	9.3231	386.0
+314268	GLENAVON MD 9	32	73135844	1433	1502	6941	27	21446	304	9.3231	386.0
+314269	GLENAVON MD 10	32	73135844	1433	1502	6941	27	21446	304	9.3231	386.0
+314270	GLENAVON MD 11	32	73135844	1433	1502	6941	27	21446	304	9.3231	386.0
+314271	GLENAVON MD 12	32	73135844	1433	1502	6941	27	21446	304	9.3231	386.0
+314272	GLENAVON MD 13	32	73135844	1433	1502	6941	27	21446	304	9.3231	386.0
+314273	GLENAVON MD 14	32	73135844	1433	1502	6941	27	21446	304	9.3231	386.0
+314274	GLENAVON MD 15	32	73135844	1433	1502	6941	27	21446	304	9.3231	386.0
+314275	GLENAVON MD 16	32	73135844	1433	1502	6941	27	21446	304	9.3231	386.0
+314276	GLENAVON MD 17	32	73135844	1433	1502	6941	27	21446	304	9.3231	386.0
+314277	GLENAVON MD 18	32	73135844	1433	1502	6941	27	21446	304	9.3231	386.0
+314278	GLENAVON MD 19	32	73135844	1433	1502	6941	27	21446	304	9.3231	386.0
+314279	GLENAVON MD 20	32	73135844	1433	1502	6941	27	21446	304	9.3231	386.0
+314280	ELTON MD 1	32	26439988	1050	1385	1162	27	27551	221	8.0804	1254.0
+314281	ELTON MD 2	32	26439988	1050	1385	1162	27	27551	221	8.0804	1254.0
+314282	ELTON MD 3	32	26439988	1050	1385	1162	27	27551	221	8.0804	1254.0
+314283	ELTON MD 4	32	26439988	1050	1385	1162	27	27551	221	8.0804	1254.0
+314284	ELTON MD 5	32	26439988	1050	1385	1162	27	27551	221	8.0804	1254.0
+314285	ELTON MD 6	32	26439988	1050	1385	1162	27	27551	221	8.0804	1254.0
+314286	ELTON MD 7	32	26439988	1050	1385	1162	27	27551	221	8.0804	1254.0
+314287	ELTON MD 8	32	26439988	1050	1385	1162	27	27551	221	8.0804	1254.0
+314288	ELTON MD 9	32	26439988	1050	1385	1162	27	27551	221	8.0804	1254.0
+314289	ELTON MD 10	32	26439988	1050	1385	1162	27	27551	221	8.0804	1254.0
+314290	ELTON MD 11	32	26439988	1050	1385	1162	27	27551	221	8.0804	1254.0
+314291	ELTON MD 12	32	26439988	1050	1385	1162	27	27551	221	8.0804	1254.0
+314292	ELTON MD 13	32	26439988	1050	1385	1162	27	27551	221	8.0804	1254.0
+314293	ELTON MD 14	32	26439988	1050	1385	1162	27	27551	221	8.0804	1254.0
+314294	ELTON MD 15	32	26439988	1050	1385	1162	27	27551	221	8.0804	1254.0
+314295	ELTON MD 16	32	26439988	1050	1385	1162	27	27551	221	8.0804	1254.0
+314296	ELTON MD 17	32	26439988	1050	1385	1162	27	27551	221	8.0804	1254.0
+314297	ELTON MD 18	32	26439988	1050	1385	1162	27	27551	221	8.0804	1254.0
+314298	ELTON MD 19	32	26439988	1050	1385	1162	27	27551	221	8.0804	1254.0
+314299	ELTON MD 20	32	26439988	1050	1385	1162	27	27551	221	8.0804	1254.0
+314300	SOUTH LEVERTON MD 1	32	75236848	1291	1277	5842	27	9104	145	6.1477	1.0
+314301	SOUTH LEVERTON MD 2	32	75236848	1291	1277	5842	27	9104	145	6.1477	1.0
+314302	SOUTH LEVERTON MD 3	32	75236848	1291	1277	5842	27	9104	145	6.1477	1.0

E	INDEX	NAME OF RESERVOIR	NAT. GRID	DEPTH/M	DATE TYPE			ANALYSES, MILLIGRAMMES PER LITRE					
		/LOCALITY		MEAS.	SPWL			T	CA	MG	HCO3	SO4	CL

INDEX	NAME OF HORSEHOLE	PAT (SCD)	DEPTH-ft (MTL)	SAMP.	SWL	TYPE	WK	A	CL	WL	ANALYSES, FOLLOWUPSHEE FOR LITHE			
	/LOCALITY										MG	NCSS	SSW	CL
4N 11E	SCHOENBERG LOG NO WEL	56 0160870	895	3267	0270	10	1.5	44	51	38.5	209	2	224	31
4N 11E	SCHOENBERG LOG NO WEL	56 0160870	895	3267	0270	10	1.5	44	51	38.5	209	2	224	31
4N 12E	DF CONSTRUCTION RD	56 0160 9501	351	1500	0270	10	25	5.9	127	37.9	172	4	525	71
4N 12E	DF CONSTRUCTION RD	56 0160 9501	351	1500	0270	10	25	5.9	127	37.9	172	4	525	71
4N 12E	ANDERSON HILL, MATTHEW	56 0160 9501	351	1500	0270	10	25	5.9	127	37.9	172	4	525	71
2S 12E	ANDREWS CLINTON RD. C	56 0163720	230	44	0270	10	4.7	25	25	29.5	172	5	15	7
2S 12E	ANDREWS CLINTON RD. C	56 0163720	230	44	0270	10	4.7	25	25	29.5	172	5	15	7
2S 12E	SECTION CHEVRON-MOBIL	56 0163720	230	44	0270	10	4.7	25	25	29.5	172	5	15	7
2S 12E	CASTLE GEOLOGY MCMAHO	56 7560360	202	1	0270	10	6.9	44	54	21.9	204	3	95	5
2S 12E	CASTLE GEOLOGY MCMAHO	56 7560360	202	1	0270	10	6.9	44	54	21.9	204	3	95	5
2S 12E	FALLON FE NO 1	56 0163 9501	351	1500	0270	10	25	5.9	127	37.9	172	4	525	71
2S 12E	FALLON FE NO 1	56 0163 9501	351	1500	0270	10	25	5.9	127	37.9	172	4	525	71
7S12W	SNAKELINE POWER STTN	56 0163790	191	93	0270	11	3085	1	157	42.2	204	3	385	1486

E	INDEX	NAME OF SUBDRAIN FLOW.CFS	HAY CROP YIELD	DEPTH.S WEL.DAM	DATE TYPE SHP	HR	E	ANN.YLDS DR	WILLOWMEYER PES LITRE WCRP	SOR	CL
E	742302	NORTH STRENGTHCOM	20 MTS SOL	1943	9154 19	8	2.0	55	2.3 62.7	56	17
E	742303	NORTH STRENGTHCOM	20 MTS SOL		9154 19	8	2.0	55	2.3 62.7	56	17
E	771101	BLANDSTRIDGE-UNIVERSAL	10 LONGSIDE		1972	1972	1972	1972	1972	1972	1972
E	771115	MARINE LOTTE 0TH	12 CYPRESS		4501	72 13	4TH	50 17	15 4 1016	0	35
E	771116	MARINE LOTTE 0TH	12 CYPRESS		4501	72 13	4TH	50 17	15 4 1016	0	35
E	771118	BELL- LOS ANGELES	2000 SOLAR		2000	72 13	4TH	50 17	15 4 1016	0	35
E	771119	BELL- LOS ANGELES	2000 SOLAR		2000	72 13	4TH	50 17	15 4 1016	0	35
E	742305	EISENGRAM EXCLUSIV	40 LEGGETT	367	6542 37	21	2.0	52	15.9 54	0	22
E	742306	EISENGRAM EXCLUSIV	40 LEGGETT	367	6542 37	21	2.0	52	15.9 54	0	22
E	771121	AFTERMARKETING	1 SOUTH		1972	1972	1972	1972	1972	1972	1972
E	771122	AFTERMARKETING	1 SOUTH		1972	1972	1972	1972	1972	1972	1972
E	771123	CROSSWAY DATA SERVE	18 DEPTHS		667	1003 43	5&6	28 0	1 4 1000 0	5&	105
E	771124	CROSSWAY DATA SERVE	18 DEPTHS		667	1003 43	5&6	28 0	1 4 1000 0	5&	105
E	771125	EDWARD VARSEY SOUT	10 LONGSIDE		1972	1972	1972	1972	1972	1972	1972
E	771126	EDWARD VARSEY SOUT	10 LONGSIDE		1972	1972	1972	1972	1972	1972	1972
E	771127	CAN DIESEL VENT UN	10 CYPRESS		6974	13 926	5&6	0 5	5 0.04& 0	5&	5&
E	771128	CAN DIESEL VENT UN	10 CYPRESS		6974	13 926	5&6	0 5	5 0.04& 0	5&	5&
E	771129	BATH HOUSE SPREAD	17 TRADITI		1972	1972	1972	1972	1972	1972	1972
E	742309	ALEX/ F/L MOBL MIL	10 TRA 915		6159 32	16	0 12	1 8	1 14 7	44	26
E	742310	ALEX/ F/L MOBL MIL	10 TRA 915	914	6159 32	16	0 12	1 8	1 14 7	44	26
E	771131	PUMPTEK 2/3	10 PUMPTEK	914	1972	1972	1972	1972	1972	1972	1972
E	771132	PUMPTEK 2/3	10 PUMPTEK	914	1972	1972	1972	1972	1972	1972	1972
E	742320	SPITON HOUSE	10 TOP 925	132	6819 47	37	116	15 0	2&3 0	28	37
E	742321	SPITON HOUSE	10 TOP 925	132	6819 47	37	116	15 0	2&3 0	28	37
E	771133	GREY COFFIN RIDG 04	10 SUBSTRU	1972	1972 13	1972	72 0	0	0 8334 0	0	0
E	771134	DAGGLE (ARMSTRY)-	10 SUBSTRU	741	1972 13	1&5	3& 0	4	4 8 0.05 0	0	39
E	771135	DAGGLE (ARMSTRY)-	10 SUBSTRU	741	1972 13	1&5	3& 0	4	4 8 0.05 0	0	39
E	771136	G/WILLIAM SECTION	10 SUBSTRU	245	72 13	4	2.0	50	23 5 .05	44	15
E	771137	G/WILLIAM SECTION	10 SUBSTRU	245	72 13	4	2.0	50	23 5 .05	44	15
E	771138	G/WILLIAM SECTION	10 SUBSTRU	245	72 13	4	2.0	50	23 5 .05	44	15
E	771139	G/WILLIAM SECTION	10 SUBSTRU	245	72 13	4	2.0	50	23 5 .05	44	15
E	742325	LOWSTATE 40-1	40 TOP 925	1345	6540 37	2&TH	5&6	0	0 1 0	0	0
E	742326	LOWSTATE 40-1	40 TOP 925	1345	6540 37	2&TH	5&6	0	0 1 0	0	0
E	771140	DAGGLE (ARMSTRY)-	10 SUBSTRU	741	1972 13	1&5	3& 0	4	4 8 0.05 0	0	39
E	771141	DAGGLE (ARMSTRY)-	10 SUBSTRU	741	1972 13	1&5	3& 0	4	4 8 0.05 0	0	39
E	742327	FORRINGER(BE 90-1	90 SUTTLES	1318	6659 37	2TH	5&6	0	0 1 0	0	0
E	742328	FORRINGER(BE 90-1	90 SUTTLES	1318	6659 37	2TH	5&6	0	0 1 0	0	0
E	742329	DRAPER 90-1	90 MILITARY	1356	6659 37	2TH	5&6	0	0 1 0	0	0
E	742330	DRAPER 90-1	90 MILITARY	1356	6659 37	2TH	5&6	0	0 1 0	0	0
E	742 49	PATRICK 3/4	40 STADIU	171	0873 37	4TH	28	8	36 3 .04	0	4&&
E	742 50	PATRICK 3/4	40 STADIU	171	0873 37	4TH	28	8	36 3 .04	0	4&&
E	742 51	PATRICK 3/4	40 STADIU	171	0873 37	4TH	28	8	36 3 .04	0	4&&
E	742 52	PATRICK 3/4	40 STADIU	171	0873 37	4TH	28	8	36 3 .04	0	4&&
E	742 53	RAMSEY, BENNETT, MAY	20 DRESSIN	490	0254 13	4TH	5&6	4	4 7 .01	0	0
E	742 54	RAMSEY, BENNETT, MAY	20 DRESSIN	490	0254 13	4TH	5&6	4	4 7 .01	0	0
E	742 55	WEAK PETRO, TAYLOT	90 RADIOBT	473	0254 13	4TH	5&6	4	4 7 .01	0	0

ENTRY	NAME OF SURVEILLE	NAT.GRID	DEPTH,M	DATE TYPE	ANALYSES, MILLIGRAMMES PER LITRE							
	VICINITY/ITY		MILL.SPHY		NH	N	CA	MG	HCO3	SO4	CL	
741010	ABEL PETROL FINLEY	SU 4950W361	105	03MAY61	0340	11	0	0	0	0	0	0
741076	ABEL PETROL FINLEY	SU 4950W361	105	03MAY61	0340	11	5.4	0	0	0	0	0
741377	OTTERSHAW STHPTN	SU 4450Z243	101	00FB 67	0	0	0	0	0	0	0	0
741377	OTTERSHAW STHPTN	SU 4450Z243	101	00FB 67	0	0	0	0	0	0	0	0
741377	OTTERSHAW STHPTN	SU 4450Z243	101	00FB 67	0	0	0	0	0	0	0	0
741377	OTTERSHAW STHPTN	SU 4450Z243	347	00FB 67	0	0	0	0	0	0	0	0
741377	OTTERSHAW STHPTN	SU 4450Z243	347	00FB 67	0	0	0	0	0	0	0	0
741378	SURREY HOSP	SU 4450Z243	347	00FB 67	0	0	0	0	0	0	0	0
741379	VERNACHE LAVANT BH	SU 8850W378	131	00MAR

C	HREF	NAME OF BOREHOLE	NAT.GRID	DEPTH/ft	DATE TYPE				ANN-VEG. KILLGRAINED PER LITRE				
		/LOCALITY	REF	MEA. SWL		NA	K	CA	MG	HCO3	SO4	CL	
*	=340089	BRYNG JAMS FT GRV	SN 77		1949 13	950	95.0	506	39.4		0.0	1416	2790
*	=340090	PENDRUCH MS CAMSTONE	SN 687	380	1950 13	35	4.0	101	6.0	0	40.0	35	55
*	=340091	PENDRUCH MS CAMSTONE	SN 687	380	1950 13	35	4.0	101	6.0	0	40.0	35	55
*	=340092	PENDRUCH MS CAMSTONE	SN 687	380	1950 13	35	4.0	101	6.0	0	40.0	35	55
*	=340093	EWYDRE MS NEWBRIDGE MS 1	SN 67	1950	1950 13	1950	95.0	506	39.4	0	0.0	1416	2790
*	=340940	EWYDRE MS	SN 67	1972	1972	2200	1400	0.0	275	0	0.0	2200	0
*	=340941	EWYDRE MS	SN 67	1972	1972	2200	1400	0.0	275	0	0.0	2200	0
*	=340942	EWYDRE MS	SN 67	1972	1972	2200	1400	0.0	275	0	0.0	2200	0
*	=340943	BRYNAMM MS 1	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340944	BRYNAMM MS 1	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340945	BRYNAMM MS 1	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340946	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340947	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340948	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340949	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340950	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340951	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340952	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340953	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340954	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340955	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340956	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340957	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340958	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340959	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340960	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340961	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340962	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340963	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340964	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340965	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340966	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340967	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340968	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340969	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340970	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340971	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340972	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340973	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340974	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340975	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340976	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340977	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340978	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340979	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340980	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340981	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340982	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340983	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340984	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340985	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340986	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340987	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340988	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340989	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340990	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340991	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340992	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340993	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340994	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340995	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340996	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340997	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340998	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=340999	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341000	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341001	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341002	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341003	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341004	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341005	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341006	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341007	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341008	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341009	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341010	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341011	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341012	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341013	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341014	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341015	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341016	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341017	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341018	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341019	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341020	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341021	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341022	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341023	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341024	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341025	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341026	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341027	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341028	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341029	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341030	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341031	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341032	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341033	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341034	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341035	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341036	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341037	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341038	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341039	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341040	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341041	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341042	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341043	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341044	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341045	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341046	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341047	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341048	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341049	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341050	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341051	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341052	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341053	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341054	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341055	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341056	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341057	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341058	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341059	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341060	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341061	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341062	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341063	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341064	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341065	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341066	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341067	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341068	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341069	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341070	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341071	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341072	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341073	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341074	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341075	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341076	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341077	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341078	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341079	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341080	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341081	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341082	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341083	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341084	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341085	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341086	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341087	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341088	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341089	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341090	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341091	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341092	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341093	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341094	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341095	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341096	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341097	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341098	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341099	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341100	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341101	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341102	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341103	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341104	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341105	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341106	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341107	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341108	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341109	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341110	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341111	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341112	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341113	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341114	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341115	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341116	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341117	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341118	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341119	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341120	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341121	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341122	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341123	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341124	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341125	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341126	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341127	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341128	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341129	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341130	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341131	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341132	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341133	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341134	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341135	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341136	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341137	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341138	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341139	LLANDYBIE MS 2	SN 67	1972	1972	1200	1164	27	2027	0	0.0	2200	0
*	=341140	LLANDYBIE MS 2	SN 67	1972	1972

SURVEY NAME OF SCHEDULE /LOCALITY	NAT.SPCS NEST	CENTRAL MILE	SPPL	DATE TYPE		WA	HABITATS FOLLOWERS PER LISTS CL		MCS	MCS	CL
3160CS SCHENTON RES MARSHFIELD TO	04CS02160	107		07 27	SUMM	80.9	390	200.0	40.0	3400	14800
3160CS BEECTON RESES MARSH TO	04CS04160	107		0902 07	05		78	6.8	276.4	36	89
3160CS MARSHFIELD TO BEECTON RES	04CS05160	107		0902 07	05		78	6.8	0	0	0
3170CS MCCOMBS CR LATER TO CAR 225	05	170.	1170	10	01	5	51	5.9	172.9	28	16
3170CS LOPWOODS LATER TO CAR 225	05	170.	1143	0218 10	9	0	90	10.1	104.0	36	12
3170CS LOPWOODS LATER TO CAR 225	05			0218 10			90	10.1	0	0	0
3160CS SHENANDOAH R/S DAPPER TO	04CS07160	107		1906 10	05	14.4	104	36.7	295.5	111	36
3160CS SHENANDOAH R/S DAPPER TO	04CS08160	107		1906 10	05	14.4	104	36.7	295.5	111	36
4160CS FLOYD RD 1	02CS09162	252	241	0802 27	76	12.9	23	21.0	300.0	106	964
4160CS PARKTOWN STN DEWY	04CS06162	252		1122 27			161	4.6		16	36

TABLE IIIB

INDEX, NAME OF BOREHOLE/LOCALITY
See Table IIIA

T(H2O) Water temperature measured either on discharge at the surface, in underground workings or, by downhole temperature probe, in degrees centigrade.

PH pH (undifferentiated) either measured in situ or on laboratory sample.

TDS Total dissolved solids. In general this figure represents total determined constituents, derived from Table IIIA chemical analysis.

SiO2 Silica content (mg/l) expressed as SiO_2

AMPHS Amorphous Silica (opal) temperature.*

QZ Quartz temperature.*

CHALCEDONY Chalcedony temperature.*

CRISTOBALITE Cristobalite temperature.*

NA/K/CA Fluid temperatures.*

NA/K Fluid temperatures.*

*See section 3.4

INDEX	NAME OF SURFACE	TOBACCO	MEASURE DATA			SOUTHWESTERN. 30 SEC.						
	/LOCALITY	PH	TOT	SOIL		SILICA						WAVE
			SED C	MOIL		APPRX	SE	CHALK	CHIEF	SAND	SHELF	
74	TOR WILSONS EDITIONS NO. 2	11.5		573	11.5	-11.7	44.3	9.4	+6.1	44.5	123.5	117.9
75	ZION STRATAMPSTEAD SYDNEY	8.2	9.05	1420	9.6	-12.3	45.6	9.5	+6.2	45.1	124.6	118.4
76	ZION STRATAMPSTEAD SYDNEY			1420	9.6	-12.3	45.6	9.5	+6.2	45.1	124.6	118.4
77	ZION STRATAMPSTEAD SYDNEY			1420	9.6	-12.3	45.5	47.2	30.8	45.1	124.6	118.3
78	ZION STRATAMPSTEAD SYDNEY			1420						45.1	124.6	118.3
79	ZION SPANELL SYDNEY SURV			1420	9.6	-12.1	45.3	9.5	+5.9	45.1	124.6	118.4
80	ZION SPANELL SYDNEY SURV			1420	9.6	-12.1	45.3	9.5	+5.9	45.1	124.6	118.4
74470	GOLDSTON RD 16	29.9	7.49	3065		-38.6	72.3	35.6	22.6	89.2	172.3	166.7
74471	GOLDSTON RD 16			3065	26.6	-38.6	72.3	35.6	22.6	89.2	172.3	166.7
74	TAYLOR FALL END FIELD 2			1535	13.9	-18.2	88.7	19.5	+9.9			
74	TAYLOR MARSH FIELDS, KITCHEN			1535	13.9	-18.2	88.7	19.5	+9.9			
74	TAYLOR MARSH FIELDS, KITCHEN		7.11	1535	13.9	-18.2	88.7	19.5	+9.9	71.9	209.5	207.1
74	THISTLE GRANT ALLEN			1535						24.4	209.7	207.5
74	THISTLE GRANT ALLEN			1535								
74	TAYLOR ELLEN'S GRANT	12.2	7.40	765						73.8	163.0	50.9
77	ZION MILES LIMESTONE			1420	9.7	-47.5	27.0	1.7	+11.1			
78	ZION MILES LIMESTONE			1420	17.1	-52.7	56.0	23.6	8.1			
77205	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77206	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77207	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77208	KIMBELL CALLY-FIVE	20.9		6.58	63607					137.7	112.0	44.0
77209	KIMBELL CALLY-FIVE	20.9		6.58	63607					137.7	112.0	44.0
77210	KIMBELL CALLY-FIVE	20.9		6.58	63607					137.7	112.0	44.0
77211	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77212	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77213	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77214	VALLEYFIELD CALLEBY	19.9		7.18	69252					119.9	115.1	51.6
77215	VALLEYFIELD CALLEBY	19.9		7.18	69252					119.9	115.1	51.6
77216	VALLEYFIELD CALLEBY	19.9	5.17	7.18	69252					119.9	115.1	51.6
77217	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77218	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77219	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77220	CASTLEHILL CALLY-FIVE	19.5		9.35	687					83.0	109.2	57.5
77221	CASTLEHILL CALLY-FIVE	19.5		9.35	687					83.0	109.2	57.5
77222	CASTLEHILL CALLY-FIVE	19.5		9.35	687					83.0	109.2	57.5
77223	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77224	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77225	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77226	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77227	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77228	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77229	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77230	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77231	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77232	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77233	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77234	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77235	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77236	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77237	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77238	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77239	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77240	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77241	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77242	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77243	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77244	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77245	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77246	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77247	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77248	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77249	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77250	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77251	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77252	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77253	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77254	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77255	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77256	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77257	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77258	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77259	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77260	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77261	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77262	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77263	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77264	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77265	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77266	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77267	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77268	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77269	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77270	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77271	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77272	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77273	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77274	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77275	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77276	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77277	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77278	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77279	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77280	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77281	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77282	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77283	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77284	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77285	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77286	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77287	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77288	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77289	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77290	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77291	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77292	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77293	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77294	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77295	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77296	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77297	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77298	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77299	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9
77300	KIMBELL CALLY-FIVE	19.5		6.45	58776					139.7	134.2	63.9

INDEX	NAME OF BOREHOLE	LOCALITY	TOWN	TYPE	ELEVATION (M.A.S.L.)	GEOLOGY	GEOTHERMOMETRICS, 1983 (C)			WATER		
							SILICA			NA/K		
							MODEL	CALC	CHALC	CHALC		
							AMPHI	QUARTZ	CONDUCTIVE			
77260	KEDONGOSI COLLIERY	69	7	50	1881					178.1	149.0	80.1
77261	KEDONGOSI COLLIERY	69	7	50	1881					178.1	149.0	80.1
77262	KEDONGOSI COLLIERY	69	7	50	1881					178.1	151.1	84.7
77264	KEDONGOSI COLLIERY	69	8	0	1881	43.9	-37.9	95.1	42.8	48.9	178.1	151.1
77265	KEDONGOSI COLLIERY	69	8	0	1881	43.9	-37.9	95.1	42.8	48.9	178.1	151.1
77266	KEDONGOSI COLLIERY	69	8	50	1722	19.9	-59.9	57.9	23.3	9.6	174.9	149.1
77267	KEDONGOSI COLLIERY	69	8	50	1722	19.9	-59.9	57.9	23.3	9.6	174.9	149.1
77268	SHERWOOD COLLIERY	69	9	0	1881						178.1	149.0
77269	SHERWOOD COLLIERY	69	9	0	1881						178.1	149.0
77270	SHERWOOD COLLIERY	69	9	0	1881						178.1	149.0

INDEX NAME OF SHIPYARD	TRACK	REQUIRED DATA Pm	YOC	DOCK	SLIP	ARMS	GOVERNMENTOWNED. IN DRY DOCK					
							SIZE	CYCLE	CRIST		L*B*D	W*T
74100 CRANBERY LIVERPOOL		7 Ch	1775									
74101 KERSHOPPOOT SHIPLY		7 Ch	1941	4.9	+85.3	16.5	+05.3	+1.1		222.7	74.7	+0.5
74102 BRADFORD SHIPLY		7 Ch	1945	4.9	+05.6	16.7	17.9	2.0		228.3	74.7	+0.5
74103 RALPH CROSS NO 1 YRD		4 Th	1775							228.3	74.7	+0.5
74104 RALPH CROSS NO 2 YRD		4 Th	1775							228.3	74.7	+0.5
74105 WESTERN MACHINE WO 1		4 Th	1777							228.3	74.7	+0.5
74106 WESTERN MACHINE WO 2		4 Th	1777							228.3	74.7	+0.5
74107 SHIPBUILDING CO 1		4 Th	1777							228.3	74.7	+0.5
74108 SMITHS NO 1		20 S	4.0	1774						228.3	74.7	+0.5
74109 SMITHS NO 2		44 S	4.0	1774						228.3	74.7	+0.5
74110 SMITHS NO 3				1774						228.3	74.7	+0.5
74 130 S METTING COLLIERY				4.0	1775					228.3	74.7	+0.5
74 131 S METTING COLLIERY				4.0	1775					228.3	74.7	+0.5
74 132 HEATON COLLIERY				5.0	1940					228.3	74.7	+0.5
74 133 HEATON COLLIERY				5.0	1940					228.3	74.7	+0.5
74 134 HEATON COLLIERY				5.0	1940					228.3	74.7	+0.5
74

INDEX	NAME OF BOREHOLE	TARGET/S	PTH	PRESSURE DATA TVD	ESTD	GEOTHERMOMETRY: IN SITU (I) ESTIMATED FROM:	MAX/ON	MAX
	/LOCALITY	SEE K		MSCL	MAX	GRPHS KS CMAX/C CRIST	B=K/3	B=1/3
741670	BOULDERTH HEI LANCS	ST 2						
741671	BOULDERTH	11 S	0	0	0		235 L 1%	45 T
741672	BOWERHI 2		0	0	0		235 L 1%	45 T
741673	BOWERHILL NO 1 YORKS		0	0.06	235771		173 L 1%	127 K
741674	BOWERHILL NO 2 YORKS		0	0.06	235771		173 L 1%	127 K
741675	BOWERHILL NO 3 YORKS		0	0.06	235771		173 L 1%	127 K

INDEX NAME OF BOREHOLE	TOWING	PRESENT DATA			HISTORICOROTOKIA 15 SEC 2					
ALSO ATTY	SPD K	PH	TDS	SIGS	SILICA			NITRIDE		MAYE
			SED K		AMPHI	SI	CHALC SILIC	SHALY SHALY		
AT 197 TRUCKS NO 2 STEERING				2695	198 1	39 9	152 5	124 4	102 2	
74197 SYSTEMS DEVELOPMENT NO			9 90	1975					146 2 138 5	75 2
74211 SYSTEMS DEVELOPMENT NO			9 90	1975						
74213 SYSTEMS DEVELOPMENT NO 2			9 90	197						
74214 SYSTEMS DEVELOPMENT NO				197						
74215 SYSTEMS DEVELOPMENT NO			9 90	197						
74216 SYSTEMS DEVELOPMENT NO			9 90	197						
74240 TRUCKSTER NO 1 PLASTIC			9 90	217	4 9	-52 2	18 2	+17 9	+26 8	53 7
74241 TRUCKSTER NO 2 PLASTIC			9 90	217	4 9	-52 2	18 2	+17 9	+26 8	53 7
74242 SHIPBUILD SHIP TEST			9 90	217						
74249 AVIATION MAIN SCHEDULE			9 90	197	11 9	-52 2	43 7	8 9	+4 9	70 8
74250 AVIATION MAIN SCHEDULE			9 90	197	11 9	-52 2	43 7	8 9	+4 9	70 8
74251 LIGHTS LA AIRPORT			9 90	197						
74252 LIGHTS LA AIRPORT			9 90	197						
74253 MILLFIELD SHIP SHIELD			9 90	75	9 9	-102 1	-99 1	-21 1	-9 9	39 9
74254 MILLFIELD SHIP SHIELD			9 90	75	9 9	-102 1	-99 1	-21 1	-9 9	39 9
74255 MOTHER'S DAY SHIELD			9 90	197	9 9	-52 2	18 2	+17 9	+26 8	53 7
74256 MOTHER'S DAY SHIELD			9 90	197	9 9	-52 2	18 2	+17 9	+26 8	53 7
74264 BRIDGE HLS STATION				197						
74265 STRAIGHT FIX STATION			4 90	277	9	-77 9	33 9	-13 9	+23 9	87 9
74266 STRAIGHT FIX STATION			4 90	277	9	-77 9	33 9	-13 9	+23 9	87 9
74267 FEE HILL STATION			7 90	251	4 9	-77 9	28 9	-20 9	+22 9	84 9
74268 FEE HILL STATION			7 90	251	4 9	-77 9	28 9	-20 9	+22 9	84 9
74269 APPLE HLS PRESIDENT			9 90	197						
74270 APPLE HLS PRESIDENT		11 1	9 90	197						
74280 MILLFIELD FIX SHIELD			9 90	191	9 9	-45 9	29 1	4 9	+6 1	
74281 MILLFIELD FIX SHIELD			9 90	191						
74282 BOARDROOM SHELTER			7 90	241	24 9	-44 9	45 9	34 9	44 9	190 5
74283 LOWER SYSTEM ACADEMY			7 90	385						
74284 LOWER SYSTEM				197						
74285 MERCURY NO 2			12 5	7 90	231	9 9	-43 2	42 4	7 9	+5 9
74286 MERCURY NO 2				197						
74287 STABLE FORGE			7 90	174	19 9	-54 7	30 4	-5 9	+1 9	84 9
74288 STABLE FORGE			7 90	174	19 9	-54 7	30 4	-5 9	+1 9	84 9
74289 WELLS NO 1			9 90	37223						
74290 WELLS NO 1			9 90	37223						
74291 WELLS NO 2			12 1	9 90	197	15 9	-52 9	34 2	15 9	+21 9
74292 STRAIGHTAIL NO 2			12 2	9 90	197	15 9	-52 9	34 2	15 9	+21 9
74120 CLUTCH SYN TRUCKS 1				197						
74121 CLUTCH SYN TRUCKS 2			7 90	201	15 9	-58 9	41 9	20 7	17 9	+24 9
74122 STEERING ARTS TRUCK			10 8	1974	7 9	-74 4	39 5	14 4	+17 1	84 9

| INDEX | NAME OF BOREHOLE | YIELD | TH | RSWL | ESTZ | RESISTANCE | | |

INDEX	NAME OF BOREHOLE FORMATION	MEASURED DATA TYPE OF WELL	YIELD l/s	PH	TDS mg/l	TEST HRS.	GEOTHERMOMETERS IN DEG.C SILICA AMPHS	CHALC	QUART	NA/K SHAFIO	NA/K SHAFIO
741203	SOUTH LEIPZIGER NO. 1	WD-C	7.5L	9.20	31281					141.3	154.4
741204	SOUTH LEIPZIGER NO. 2	WD-C	7.5L	9.20	31281					141.3	154.4
741301	KEIS HARRANAB NO. 1	WD-C	7.5L	9.20	18044					135.9	148.5
741302	KEIS HARRANAB NO. 2	WD-C	7.5L	9.20	18044					135.9	148.5
741303	KEIS HARRANAB NO. 3	WD-C	7.5L	9.20	18044					135.9	148.5
741401	BOTSPANNA NO. 1	WD-C	7.5L	9.20	18044					135.9	148.5
741402	BOTSPANNA NO. 2	WD-C	7.5L	9.20	18044					135.9	148.5
741403	BOTSPANNA NO. 3	WD-C	7.5L	9.20	18044					135.9	148.5
741501	KOMSBERG NO. 1	WD-C	7.5L	9.20	7500					116.7	128.3
741502	KOMSBERG NO. 2	WD-C	7.5L	9.20	7500					116.7	128.3
741601	KROMMELL SOUTH NO. 1	WD-C	37.5	8.00	4705					98.1	107.8
741602	KROMMELL SOUTH NO. 2	WD-C	37.5	8.00	4705					98.1	107.8
741701	ZOUAR NO. 1	WD-C	7.5L	9.40	3103					89.3	98.2
741702	ZOUAR NO. 2	WD-C	7.5L	9.40	3103					89.3	98.2
741801	LOMAGE NO. 1	WD-C	7.5L	9.40	9000					116.7	128.3
741802	LOMAGE NO. 2	WD-C	7.5L	9.40	9000					116.7	128.3
741901	KOMSBERG NO. 1	WD-C	7.5L	9.20	7500					116.7	128.3
741902	KOMSBERG NO. 2	WD-C	7.5L	9.20	7500					116.7	128.3
742001	KOMSBERG WEST	WD-C	7.5L	9.20	7500					116.7	128.3
742101	KOMSBERG WEST EAST	WD-C	7.5L	9.20	7500					116.7	128.3
742102	KOMSBERG WEST EAST	WD-C	7.5L	9.20	7500					116.7	128.3
742201	KOMSBERG EAST	WD-C	37.5	9.40	4705					98.1	107.8
742202	KOMSBERG EAST	WD-C	37.5	9.40	4705					98.1	107.8
42 131	ON THE NAPH BOREHOLE	WD-C	7.5L	9.40	3103	33.1	-41.9	49.2	26.9	15.6	89.3
42 132	NAPLOOS SPRING	WD-C	7.5L	9.40	3103	12.9	-59.9	47.9	13.3	-0.8	89.3
42 133	ON THE NAPH BOREHOLE	WD-C	7.5L	9.40	3103	12.9	-59.2	34.3	5.1	-11.9	89.3
42 134	ON THE NAPH BOREHOLE	WD-C	7.5L	9.40	3103						89.3
42 135	NAPLOOS SPRING	WD-C	7.5L	9.40	3103						89.3
42 136	ON THE NAPH BOREHOLE	WD-C	7.5L	9.40	3103						89.3
42 141	HOTSOUT NAPH HOTEL	WD-C	15.0	9.20	2281					-3.5	80.5
42 142	HOTSOUT NAPH HOTEL	WD-C	15.0	9.20	2281					-3.5	80.5
42 143	KRANSE NO. 2 SPRING	WD-C	7.5L	9.20	2281					-3.5	80.5
42 144	KRANSE NO. 2 SPRING	WD-C	7.5L	9.20	2281					-3.5	80.5
42 145	KOMSBERG NO. 1	WD-C	7.5L	9.20	7500					116.7	128.3
42 146	KOMSBERG NO. 2	WD-C	7.5L	9.20	7500					116.7	128.3
42 147	KOMSBERG NO. 3	WD-C	7.5L	9.20	7500					116.7	128.3
42 151	KOMSBERG NO. 1	WD-C	7.5L	9.20	7500					116.7	128.3
42 152	KOMSBERG NO. 2	WD-C	7.5L	9.20	7500					116.7	128.3
42 153	KOMSBERG NO. 3	WD-C	7.5L	9.20	7500					116.7	128.3
42

INDEX	NAME OF STEREOLIST	FUNDU-MENTAL	PH	TOR.	SOSI	SILICA	GEOTHERMOMETERS: IN DEG C MAJ/CA	MAJ/K
	TYPE OF ROCK	MINERAL		MOL%	ANPHI	NE CHALC CRIST	B=4/3 B=2/3	B=4/3
71	110 GARNESBERG HS NO 600	16 F	7.00	4.0			38.1 167.1	268.6
72	110 GARNESBERG LOK NO 900	16 I	7.35	924			38.1 167.1	268.6
73	110 GARNESBERG LOK	16 I	7.35	924			38.1 167.1	268.6
74	110 ST SORENSTRUP	16 I	7.35	924			38.1 167.1	268.6
75	110 GRAESTED HILL SECTION	11 D	8.05	177			30.8 138.9	312.9
76	110 GRAESTED HILL SECTION	11 D	8.05	177			30.8 138.9	312.9
77	110 GRIBHOLM HILL ST SECTION	11 D	8.05	177			30.8 138.9	312.9
78	110 GRAESTED SECTION NEAR	16 D	7.40	995			31.2 139.2	410.7
79	110 GRAESTED SECTION NEAR	16 D	7.40	995			31.2 139.2	410.7
80	110 GRAESTED SECTION NEAR	16 D	7.40	995			31.2 139.2	410.7
81	110 GRAESTED SECTION NEAR	16 D	7.40	995			31.2 139.2	410.7
82	277 SMYTHA PA NO 2	16 D	7.60	221			34.6 140.6	362.1
83	277 SMYTHA PA NO 2 SPTH	16 D	7.60	221	7.1	-34.0 29.8	-4.6 +23.7	
84	277 SMYTHA PA NO 2 SPTH	16 D	7.60	221	6.4	-34.0 29.8	-4.6 +23.7	
85	277 SMYTHA PA NO 2 SPTH	16 D	7.60	221	6.0	-34.0 29.8	-4.6 +23.7	
86	277 SMYTHA PA NO 2 SPTH	16 D	7.60	221	5.6	-34.0 29.8	-4.6 +23.7	

| INDEX | NAME OF BOREHOLE | TIDING | PH | TDS | ESR2 | | |

INDEX	NAME OF BOREHOLE / LOCALITY	TOWNSHIP	RESOURCES DATA PH	WELL	SOIL/ ROCK	MPHD	SE	GEOTHERMOMETERS: IN SEC 2 SI, CHALC	CHALC	QUART	NA/K
74/010/A	KRAFT PETTUS FARLEY	7 SO	297	4.9		-62.3	18.2	-17.9	-26.5		
74/010/B	KRAFT PETTUS FARLEY	7 SO	297	4.9		-62.3	18.2	-17.9	-26.5	52.7	195.5	241.5
74/017	STYRDOMSKAP STAMPIN	7 SO	281									
74/019	STYRDOMSKAP STAMPIN	7 SO	281									
74/020	STYRDOMSKAP STAMPIN	7 SO	281									
74/021	STYRDOMSKAP STAMPIN	7 SO	281									
74/031	KLEIN KWATTA	7 SO	297	9.8		-29.7	69.5	59.4	33.4			
74/032	KLEIN KWATTA	7 SO	297	9.8								
74/033	KLEIN KWATTA	7 SO	297	9.8		-25.9	29.1	8.0	-8.1			
74/034	VANDOOR LAMONT BH 1	7 SO	295			-71.3	52.0	-2.7	-15.5	-13.9	117.4	173.8
74/035	VANDOOR LAMONT BH 2	7 SO	295			-71.3	52.0	-2.7	-15.5	-13.9	117.4	173.8
74/036	VANDOOR LAMONT BH 3	7 SO	295	7.9		-71.3	52.0	-2.7	-15.5	-5.7	118.7	165.0
74/037	VANDOOR LAMONT BH 4	7 SO	295	7.9		-71.3	52.0	-2.7	-15.5	-5.7	118.7	165.0
74/038	ERICKSBERG STAMPIN	7 SO	281									
74/039	ERICKSBERG STAMPIN	7 SO	281									
74/040	STEYN ERASMUS SPIT	17 J	296	55.9		-9.9	104.9	75.4	34.3	142.9	115.4	38.4
74/041	KRAFT PETTUS FARLEY	7 SO	297	9.8								
74/042	KRAFT PETTUS FARLEY	7 SO	297	9.8		-50.1	57.5	23.0	-1.4	108.7	152.0	
74/043	WESSEL PH STRAUSS	16 T	295	130	9.8	-25.9	29.1	8.0	-8.1	44.5	109.3	
74/044	FONTEINS NO 1	7 SO	7086							152.0	125.1	94.8
74/045	FONTEINS NO 2	7 SO	7086							152.0	125.1	94.8
74/046	FONTEINS NO 3	7 SO	7086							152.0	125.1	94.8
74/047	FONTEINS NO 4	7 SO	7086							152.0	125.1	94.8
74/048	FONTEINS NO 5	7 SO	7086							152.0	125.1	94.8
77/001	KRIEGER NO 1	11 S	7086	17.6		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/002	KRIEGER NO 2	11 S	7086	17.6		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/003	KRIEGER NO 3	11 S	7086	17.6		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/004	KRIEGER NO 4	11 S	7086	17.6		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/005	KRIEGER NO 5	11 S	7086	17.6		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/006	KRIEGER NO 6	11 S	7086	17.6		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/007	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/008	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/009	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/010	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/011	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/012	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/013	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/014	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/015	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/016	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/017	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/018	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/019	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/020	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/021	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/022	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/023	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/024	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/025	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/026	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/027	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/028	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/029	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/030	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/031	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/032	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/033	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/034	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/035	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/036	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/037	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/038	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/039	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/040	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/041	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/042	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/043	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/044	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/045	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/046	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/047	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/048	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/049	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/050	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/051	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/052	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/053	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/054	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/055	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/056	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/057	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/058	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/059	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/060	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/061	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/062	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/063	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/064	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/065	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/066	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/067	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/068	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/069	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/070	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/071	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/072	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/073	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/074	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/075	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/076	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/077	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/078	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/079	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/080	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/081	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/082	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/083	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/084	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/085	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/086	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/087	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/088	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/089	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/090	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/091	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/092	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/093	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/094	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/095	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/096	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/097	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/098	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/099	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/100	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/101	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/102	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/103	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/104	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/105	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/106	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/107	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/108	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/109	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/110	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/111	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/112	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/113	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/114	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/115	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/116	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/117	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/118	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/119	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/120	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/121	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/122	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/123	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/124	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/125	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/126	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/127	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/128	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/129	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/130	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/131	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/132	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/133	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/134	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/135	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/136	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/137	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/138	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/139	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/140	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/141	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/142	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/143	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/144	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/145	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/146	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/147	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/148	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/149	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/150	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/151	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/152	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/153	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/154	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/155	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/156	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/157	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/158	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/159	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/160	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/161	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/162	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/163	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/164	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/165	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/166	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/167	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/168	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/169	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/170	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/171	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/172	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/173	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/174	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/175	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/176	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/177	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/178	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/179	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/180	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/181	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/182	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/183	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/184	GRAEFIA FARM	12 S	7086	25.5		-74.9	29.5	-4.0	-20.0	71.4	109.2	165.6
77/185	GRAEFIA FARM	12 S

INDEX	NAME OF SOURCE & LOCALITY	MEASURED DATA							SPECTROPHOTOMETRY: 19 DEG C SOLIDS			WAVLTH	MAX/C
		YIELD/T	PH	TDS	LIQU				SOLIDS			BAND	
		/ACRE/FT		PPM/L	PPM/L	AMPHS	GE	SMALC	GHOST	BAND	BAND		
741000	AMPH. JUNC ST 22U	10.5	8.00	4418	15 D	-47.1	42.4	33.2	13.1	107.7	102.7	108.4	
741001	PENDROYS #1 CAMBRIDGE	10.5	8.00	4418	15 D	-47.1	42.4	33.2	13.1	107.7	102.7	108.4	
741002	PENDROYS #2 CAMBRIDGE	10.5	8.00	4418	15 D	-52.1	75.5	94.2	29.7	107.7	102.7	108.4	
741003	PENDROYS #3 CAMBRIDGE	10.5	8.00	4418	47.1	-14.9	99.1	67.2	46.7	102.5	107.5	111.5	
741004	AMPHENOL #1 WELL NO 1	10.5	8.00	4418	15 D					107.7	102.7	108.4	
741005	AMPHENOL #2	10.5	8.00	4418	15 D					107.7	102.7	108.4	
741006	AMPHENOL #3	10.5	8.00	4418	15 D					107.7	102.7	108.4	
741040	WATERTOWN NO 2	24.7	7.90	14550						103.4	98.3	104.1	
741041	WATERTOWN NO 3	24.7	7.90	14550						103.4	98.3	104.1	
741042	WATERTOWN NO 4	24.7	7.90	14550						103.4	98.3	104.1	
741043	WATERTOWN NO 5	24.5	7.90	67551						205.6	198.2	9.7	
741044	WATERTOWN NO 6	24.5	7.90	67551						205.6	198.2	9.7	
741045	WATERTOWN NO 7	24.5	7.90	67551						205.6	198.2	9.7	

INDEX	NAME OF SURVEYABLE FLOOR CITY	TIMEZONE SEE C	RESOURCE DATA PM	TIME MIN. HRS.	TIME MAX.	LATITD	GEOMAGNETICAL DATA GLOBAL SZ	GLOBAL GMIDST	MAGNETIC SZ	MAGNETIC GMIDST	IN SOLAR CYCLE SUNSPT	SUNSPT DAYS	MAJOR SUNSPT DAYS
71215	YONGSON NOC NORTH	7	95	2375							161.1	107.6	22.2
71216	YONGSON NOC SOUTH	7	95	2375									
71217	POSTHUMUS SNAPP NW	7.15		312							38.7	174.6	33.1
71218	POSTHUMUS SNAPP SW	7.15		312							38.7	174.6	33.1
71219	WHITEBURN DU LUTON	7.15		257	22.9	-41.9	46.9	24.9	19.2	38.9	178.7	418.7	
71220	WHITEBURN DU LUTON	14.5		257	22.9	-41.9	46.9	24.9	19.2	38.9	178.7	418.7	
71221	LEMPERTS NO NEST 1440	7.15		236	18.9	-35.6	45.5	25.1	11.7	34.8	203.7	407.4	
71222	LEMPERTS NO NEST 1440	7.15		236	18.9	-35.6	45.5	25.1	11.7	34.8	203.7	407.4	
71224	MARSDEN SQUARE	7.15		208	16.9	-32.4	44.6	25.3	4.4	31.5	139.5	382.8	
71225	MARSDEN SQUARE	7.15		208	16.9	-32.4	44.6	25.3	4.4	31.5	139.5	382.8	
71226	MARSDEN SQUARE	20.8		208	16.9	-32.4	44.6	25.3	4.4	31.5	139.5	382.8	
71227	FANCHEAR UPR HDWT		6.50	1395							125.5	115.5	50.2
71228	FANCHEAR UPR HDWT			1395	11.5	-12.2	43.7	8.5	-4.7				



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A

24X

TABLE I - TEMPERATURE DATA

Sightings of temperature headings and observations

SECTION NO. Index number of borehole or mine in the Applied Geophysics Unit data bank. The number is allocated in the order in which data for which the borehole is located according to the British National grid system.

SECTION EXT, GRID REF (GRE) British National Grid Reference to 10 metres, where known. If the borehole is located on a 100 km grid boundary the letter of the index number with the figures quoted is this volume. In some cases the grid reference is not known and therefore both measurement is not known. In this case the grid reference of the centre of the mine is given, followed by the letter 'M'. Where the grid is not defined but the locality is known, the letter 'L' is entered.

SECTION TO RANK OF FORMATIONS PENETRATED These digits, in series provide a code number indicating the rock formation opposite the deepest formation penetrated giving(by reference to the rock depth of the hole the depth of the deepest formation and the formation named in the row in which the temperature measurement was taken. The following abbreviations are used.

U	=Quaternary	P	= Permian
N	= Neogene	PT	= Permo-Triias
T	= Tertiary	C	= Carboniferous
K	= Cretaceous	D	= Devonian
S	= Cretaceous	CL	= Silurian
J	= Upper Oolite	O	= Ordovician
MJ	= Lower Cretaceous	OS	= Old Red Sandstone
LJ	= Lower Oolite	LD	= Lower Devonian
TR	= Trias	MD	= Middle Devonian
JTR	= Middle Jurassic	UD	= Lower Devonian
UTR	= Upper Trias	PC	= Pre-Cambrian
TT	= Trias		
TJ	= Upper Trias	X	= Unknown
TL	= Lower Trias	I	= Igneous rock
TL	= Lower Trias	SM	= Sedimentary

GRID DAT Other data listed in this report. BP indicates bore flow data, and ESTOCK indicates groundwater data.

SRCE OF DATA Source of data. A list of abbreviations is given in section 7.2.

YR. Year in which data were measured. NC indicates measurements unknown.

G.L. ft. Ft. above Mean Ordnance Datum (Mean Sea Level) of ground level in metres.

SURFACE TEMP. Ground temperature at the surface.

DEPTH Depth of temperature measurement in metres.

TEMP °C Temperature in degrees Centigrade.

TEMP GRAD °C/KM Mean temperature gradient between the surface and the depth of the respective temperature measurement in degrees Centigrade per kilometre.

TYPE OF OBS. Type of observation. The following abbreviations are used.

BHT	bottom-hole temperature
BHT-CORR	bottom-hole temperature at the bottom of the hole quoted.
MET-SURF	water temperature
MET-AIR	air temperature
CIT	virgin strata temperature
DST	drill stem test
DST-CORR	drill stem measurement

Details of these categories are given in section 5.2.

TIME FROM CIRC. Time between stopping circulation and measuring temperature. This is usually quoted in hours. Where between 24 and 72 measurements, X = DOUBLE, Y = TRIPLE, W = MONTH, V = YEARS

TEMP °C CORR. Corrected temperature in degrees Centigrade where times since circulation are known. The correction procedures are outlined in section 5.4.

COOL. TEMP GRAD °C/KM Corrected temperature gradient.

INDEX NO	NAME OF SURNAME /SCRIPTS/	BRITISH RATING/ITEM	LACTATE/	DEC/YRS TO BOOK OF REFERENCE/	GTM	SHIP NO	YR	E.D.B. FOCS	1ST/PRTH	TEMP ?	FIRE ?	TIME CHOSE	TIME CHOSE	TIME CHOSE
1	1 PONTEME MI 1	3N4545PM	HTN 12 M3	SG 37.5 WTH 19 S	437.50	445	05	393	9 E	1PM 1PM 1PM	1PM 1PM 1PM	1PM 1PM 1PM	1PM 1PM 1PM	1PM 1PM 1PM
2	1 BELLEAU HI 1	1Y4S 5PL	WTH 26 M7 W4	27 C	1166.76	776	56	5M	10 L	1447 1S	2D 3	30 3	1447 1S	2D 3
3	1 XXX DOG	3Y4S4N4P	WTH 23 M3 W4	23 G	1062		MAR	65	1544	9 E	1026	35 P	19 9	1447	2M	--	--	--
4	1 GLEGG	14N12N14L	WTH 24 M3 W4	24 C	2291.20	2SPP	HAM	66	281	5 K	1030	46 L	22 5	1447	3M	5K L	10 L	
5	1 SHAKSPEAR	22I2 2XP	WTH 12 M7 W 7	27 C	2916.24	1041	HAM	65	1450	9 K	2YY 4U	41 P	21 7	1447	2M	--	--	--
6	1 WILSON BRIDGE 3	1S87 4TA	WTH 14 M3 W4	14 C	257	SEOCH	2SS	76	32	1S 1	1PM 1PM 1PM 1PM 1PM 1PM	1PM 1PM 1PM 1PM 1PM 1PM	1PM 1PM 1PM 1PM 1PM 1PM	1PM 1PM 1PM 1PM 1PM 1PM	1PM 1PM 1PM 1PM 1PM 1PM	1PM 1PM 1PM 1PM 1PM 1PM	1PM 1PM 1PM 1PM 1PM 1PM	1PM 1PM 1PM 1PM 1PM 1PM
7	3 LANGFORD LODGE	1SYHSP4LI	WTH 15 M3 W4	35 7STH 15 LTD	8ST	35S	57	21	9	1PM 1PM 1PM	1PM 1PM 1PM	1PM 1PM 1PM	1PM 1PM 1PM	1PM 1PM 1PM
8	2 BALLCHARM 61	1N43 94L	WTH 24 M3 W 5	24 G	994		3C1	45	10	1PM 1PM 1PM	1PM 1PM 1PM	1PM 1PM 1PM	1PM 1PM 1PM	1PM 1PM 1PM
9	3 CASTLE DODDS	1N3E 90T	WTH 24 M3 W4	24 G	1472		811	45	89	7 S	3PM	3T 8	7L 4	8MT				
10	4 LISBURN MO 2	21N4 46P	WTH 32 M 6 W 6	32 I	108		3SS	75	1SP	9 K	1446	11 S	23 P	1447	3U	11 S	23 P	
11	5 NEWELL	24A6N4PR	WTH 24 M3 W4	24 T	1562.8	1961	HAM	71	1A	9 T	7EP 2S 1PM	2S 2	3S 8	1447	4M	4S 7	4L 6	
12	5 SKIPTON	32S 60S	WTH 11 M3 W4	26 C	1124		HP	8	67	4 G	5A1 1A 1PM	1A 1	1A 1	1447	2M	1A 1	2M 2	
13	5 CLARKE BRIDGE	64N78S6E	WTH 13 M3 W4	1 IN 13	294.90	1PP	3SS	76	2TL	9 K	3PM 3PM 3PM	3PM 3PM 3PM	3PM 3PM 3PM	3PM 3PM 3PM	3PM 3PM 3PM	3PM 3PM 3PM	3PM 3PM 3PM	3PM 3PM 3PM

INDEX NO	NAME OF BOREHOLE /LOCALITY	BRITISH GRID LOCATION	LATITUDE/ LONGITUDE	DEPTH TO BASE OF WORKABLE SEAM(M)	STR	DIP	AZ	GS	OB/ SEAM	HT	DEPTH TO SEAM (M)	TOP	TOP	TIME (MIN)	LOSS (MIN)	TIME TO/FM FACE (MIN)
74	SILLEBJUM 19	314644E 4M	60 54 11 N 0 53 27	304	GOSCO	HR	0.9	348	222	0.7	0992 252 674 26	0	23.2 23.2	887		1080 887
75	? SPRANGEHOLTH SHOC	991383E	60 52 ? N 0 53 55 ?	CU 1076				MCB			51	16	0 1014	8		24 ?
76	U3 SOUTH SHILDRAY	50 ??	60 52 ? N 0 53 ?	106.01	SKT	NF	E	SP			9 1	107	14 % 107 14 %	45	0	1080 1080
77	U3 SULTAHOUSO	5069502	MFS 52 1 N 1 1 W	CU				NF	S	SP	2	0	1 105	12	0	1080
78	U3 SUSDALE COL	UK00 300	MFS 52 58 1 1 W					GOSCO	MCB		144	8	239	12	2	14 %
79	U3 SOLSISTA COL	9777702E	MFS 2 17 0 58 W					GOSCO	MCB	74	80	0	0 187	21	5	31 0
80	U3 SOLSISTA COL	7546677E	MFS 2 17 0 58 W					GOSCO	MCB	74	41	5	0 114	17	2	11
81	U3 SOSAHOUSE COL	5021702E	MFS 55 ? 0 58 W					GOSCO	MCB	73	76	5	0 436	18	0	19 4
82	U3 SOKOSY COL	5103577E	MFS 55 58 0 25 ??					GOSCO	MCB	74	138	0	0 314	17	0	19 0
83	U3 SILLOCH COL	4880219E	MFS 2 47 0 23 ??					GOSCO	MCB	74	130	0	0 295	17	0	11 ?
84	U3 POLSPWEST COL	7190627E	MFS 2 47 0 23 ??					GOSCO	MCB	74	244	0	0 549	17	0	25 4
85	WORKS COMPOS	9797950	MFS 0 13 0 36 ??	CU				MCB		75	5	0	0	0	0	0
86	U3 SPLMENFORD	4876496	MFS 58 W 0 58 W	0		S.GL	934	306	47	78	5	0	0	27	8	20 0
87	? PERLSTEAMS NO 1	3A3 647	MFS 52 12 0 58 W					ESH			232	0	6	747	37	8
88	U3 ? PERSHALL PEARSAN	9997554E	MFS 49 10 0 58 W	0		S.GL	322	NF		1 C	71	45	5	107	5	15
89	U3 ? CROSLAND NO 5	3774477E	MFS 53 58 0 58 W	C				B P		SP	145	0	0	387	17	0

INDEX NO	NAME OF SURVEYOR & LOCALITY	BRITISH NATIONAL GRID REF LONG	LATITUDE/ LONGITUDE	DEPTH TO BOTTOM OF PENETRATION	ETH CODE	DATE YR	GRID MO	G.R DAY	SUR- VEYOR	EARTH TEMP 1.5M	EARTH TEMP 3.0M	TIME 1.5M	TIME 3.0M	CODES 1.5M	CODES 3.0M
										°C	°C	GMT	GMT		
NT 11	COCKLAND NR A	3835681	WPS 54 4 W 0 42	C@ 561		8 P	60	167	Y-S	502	22.9		25.4	1647	
NT 11	PORTPERTON	0720377	WPS 54 4 W 0 42		GEOCH	8 P	63	125	S	0.1170	24.7		25.9	1647	
NT 11	LOCHEND	3217480	WPS 54 4 W 0 38	C@ 705-11. 1167		MCB		45	Y-S	1.61	24.4		25.9	1647	
NT 15	EDRELAND NR 1	3060420	WPS 54 4 W 0 30	C@ 1007		MF	11	29	SS	7.6	1007	27.8	26.9	0.00	
NT 15	HADDEN HILL	3050774	WPS 54 4 W 0 31	C@ 575-11. 1253		MCB		46	S	7.22	24.6		25.0	1647	
NT 17	THORNTON BRIDGE	2897922	WPS 54 4 W 0 45	C@ 675-11. 969		MCB		51	S	7.445	26.8		27.5	1647	
NT 19	THORNTON FARM	2749771	WPS 54 5 W 0 03	C@ 655.11. 1156		MCB		54	S	7.45	24.4		25.0	1647	
NT 21	EARLYHILLS SCHS 1	3244727	WPS 54 42 W 0 10			MCB	77	4	16.0	1008	27.4	28.0	26.7	2344	29.4	28.5
NT 25	SILSTON GLEN SCHS	2756610	WPS 54 41 W 0 14			GEOCH	73	137	Y-S	2.75	15.0		8.7	1647	
NT 27	LADY VICTORIA CS	2274644	WPS 54 38 W 0 20			GEOCH	74	58	S	7.748	18.0		10.9	1647	
NT741	FRANCES	3124950	WPS 6 2 W 0 04			MCB		<21	Y-S	1.85	17.9		23.6	1617	
NT743	MONKTONHALL	3242765	WPS 55 23 W 0 04	C@		MCB	72	84	S	7.844	25.5		26.2	1717	
NT745	SEAFIELD	3159922	WPS 5 28 W 0 03	C@		MCB		<24	S	7.39	21.9		21.3	1717	
NT 38	I CRYLE DOUGLAS	719 549	WPS 54 32 W 0 27			GEOCH	137	9	2.26	14.7		23.9	1.694		
NT 37	2 ARCHERSCH	4177515	WPS 3 39 W 0 34	C 12 C 238 W 2 56 N. GL 1.60		006	55	96	Y-S	4.1565	44.2		37.9	1.00	

INDEX NO.	NAME OF SURVEILLE /LOCALITY	BRITISH NAT. GRID REF.(6FIG)	LATITUDE / LONGITUDE	DEPTH(M) TO SOUNDING DATUM (METRES)	UTM ZONE	UNCE MT DATE	YR	G.U.B. GRID REF	SURFACE 100	C SPEED OF SOUND	C TYPE OF PHASE	TIME TYPE	CLOCK ERROR	CORR TIME
HY 5	KIRKNESS	915742	60d 4m 47 CL 1m 15	59d 59m	4F	10	64	323	5 1	152	11	5	EGH	
			W 2 5.4W	CL						153	19	0	EGH	
										154	27	0	EGH	
										156	35	0	EGH	
										157	26	0	EGH	
										158	26	0	EGH	
										159	26	0	EGH	

INDEX NO	NAME OF SURVEYOR -LOCALITY	EASTING MAP GRID REFERENCE	LATITUDE/ LONGITUDE	DEPTHS TO BASE OF SUPERFICIAL FORMATIONS	GM	SHOT DATA	HT	E.D. HT	GUN- FACE	DEPTH HT	TIME OF SHOT	T.WAVE VELOCITY (FEET/ SEC)	TIME OF FIRST BREAK	FIRST BREAK VELOCITY	TIME OF SECOND BREAK	SECOND BREAK VELOCITY
NI 14	YP 1	9210070	654 27 57 W 0 05 17		Y	P	47	47	5	0.251	41.0		23.3	2987	28	-
NI 15	YP 2	9209537	654 28 03 W 0 05 32		Y	P	46	47	5	0.124	42.2		24.3	3147	-	-
NI 16	YP 3	9210413	654 28 47 W 0 05 2		Y	P	48	124	5	0.250	41.2		24.3	3147	-	-
NI 17	YP 4	9209881	654 28 32 W 0 05 13		Y	P	50	105	5	0.250	41.2		23.7	3147	34	47.2
NI 18	YP 5	9209748	654 28 34 W 0 05 17		Y	P	50	146	5	0.251	37.0		22.0	3147	34	-
NI 19	YP 6	9209094	654 28 3 W 0 05 36		Y	P	50	47	5	0.251	42.2		24.3	3147	-	-
NI 20	YP 7	9209737	654 27 16 W 0 05 17		Y	P	50	120	5	0.251	44.0		24.4	3147	-	-
NI 21	YP 8	9209272	654 27 28 W 0 05 32		Y	P	50	63	5	0.251	45.0		25.1	3147	-	-
NI 22	YP 12	9209139	654 28 03 W 0 05 36		Y	P	51	259	5	0.251	42.2		23.0	3147	-	-
NI 23	ESKDALE NO 11	9749618	654 25 58 0 W 0 46 56 7	20.0' 55% 1100.0' 1401	Y	P	58	209	5	0.251	71.1		42.4	3147	-	-
NI 27	ESKDALE NO 12	9571682	654 27 42 0 W 0 46 54 7	31.0' 393 1455.0' 1472	S	P	63	202	7	0.1210 1217 1224 1231 1238	50.0 49.2 47.9 46.8 45.8	1106 1106 1106 1106 1106	19.4 19.4 19.4 19.4 19.4	3147 3147 3147 3147 3147	- 31.1 31.1 31.1 31.1	- 3147 3147 3147 3147
NI 28	HARTON	9566562	654 30 1 W 1 22 48	P 70.0' 1749 GEDON B	S	P	60	17	9	1.1210 1217 1224 1231 1238	49.9 49.2 47.9 46.8 45.8	1106 1106 1106 1106 1106	22.9 22.9 22.9 22.9 22.9	3147 3147 3147 3147 3147	- - - - -	- - - - -
NI 29	HORDEN HOUSE BAR	9497804	654 25 21 W 0 52 28	J 229.7' 978 P 229.7' 1439	S	P	57	59	9	0.1438	46.7		22.4	3147	-	-

INDEX NO.	NAME OF SUBMARINE /CLASS/TY	BUILDER LOCATION/SE RVICE/TY	LAUNCHED/ DEPTHS TO HULL/TEST DEPTH/ OPERATING DEPTH	ITEM DEPT H	SPCE FT	VR	LD CAP CT	D.H- TYPE	DEPTH/ TONS/ CREW	C-SPCE CAPCTY	TIME FROM CRASH	TIME FROM SURF	CRSH DIVE TIME
W2 39	K-VIEL/KIRCHNER I	TAKRIAZIT SEAM 18 39 W 1 35 E	120.7 660 HF 1	66	21	7	7	251	1/2-H				
								251	12-H				
								251	24-H				
								472	24-H				
								572	24-S				
								572	24-H				
								572	36-H				
								936	36-H	21	9	EDM	
W2 31	TOCKETTS I	AUGUSTUS MFA 33 15 J W 1 15 F	205.7 685 HF 1	84	57	9	7	420	1/2-H			EDM	
								420	12-H			EDM	
								420	24-H			EDM	
								510	24-S			EDM	
								510	24-H			EDM	
								510	36-H	28	6	EDM	
W2 33	EGGLEY	TAI 18N MFA 33 17 W 1 45 F		HF	690		90	9	1/2-H	287	10	6	EDM
W2 39	SCHWEIGER	MFA 29 30 J 475.7 1122 W 0 48 E 97.2 1/2 1633		HF	8	2	2	1200	20-H				
								1600	46.1	23	2	SWT	12M 45 1 24 6
W2 39	SOUTH METTEM	WOHS #53 MFA 44 3 CO TON W 1 24 OF		HF	6	NC	122	0	395	1/2-H			
				GEDON					395	12-H			
									474	24-S			
									474	24-H			
									503	24-H			
									503	36-H			
								1200	36-H	29	7	EDM	
W2YOL	DOLSEN CHILTEN	KOHA 420 WFA 57 14 CO W 1 37 W		6	NC	25	0	1365	20-H				
								2534	30.5	39	7	SWT	30M 22 7 15 7
52 1	KROSKOVE	ZIMMERSE WFA 5 28 S 3.7 100 W 1 37 SE 185.1 600		395	71	09	10	791	20-H	24	2	LOS	
52 1	PRYSELE	TRIESCHTA WFA 28 10 S 11.5 495 GEDON 793 W 1 37 E 242.5 800											
52 1	EGLLSGCSH	PJATSATA WFG 48 10 ON 95.0, 1723 GEDON CON 63 424 7 9 1414 57.2 27 2 SWT 44 - -											
								1414	60.2	26	2	SWT	
52 1	HOLME CHAPEL 1	SHOREDITE WFG 45 17 W 2 12 W		GAM	74	272	0	9793	600	0	25	7	SWT 15M 66.0 26 9

INDEX NO.	NAME OF AERODROME / LOCALITY	BRITISH GRID REFERENCE	LATITUDE / LONGITUDE	DEPTHS TO RUNWAY ENDS (FEET) FROM CENTRE OF AERODROME	DTM	DIRN OF LONGEST RWY	LGTH OF LONGEST RWY (FT)	SURFACE OF LONGEST RWY	PRE-TEMP DIF	TEMP ABOVE ISA	TYPE OF FIGHR	TIME FIGHR	CONV TEMP	CONV TEMP DIF
59	T KINGHAM	SP2430740	WD1 49 44 W 3 1 34		GEOGR SAG MF GRD	00	12	09	4	227	22	35	7 LOS	294	21	9
59 1/4	RED HOUSE	ST5413785	WD1 47 W 2 21 17	0 T 227		MCR	75	2 1 2	4	0	227	14	8			
59 1/4	SHIRLE FARM	ST5312440	WD1 47 W 2 22 17	0 T 205		MCR	75	2 0 0	9	2	0	17	4	07	5	LOS
59 1/4	ROSEBRIDGE COLL	ST6 VSV	WD1 52 51 W 2 1 1	YU		MF	6	NC	10	10	1	172 172 172	18	9 25 32	07 5 7	LOS
5E 2	HARLEY NO 1	ST2 2 VSW	WD1 22 58 W 1 20 58			GEOGR MSC	45	132	7	6	1076	14	8	07	5	LOS
5E 3	LOCKTON 2S	TG324914	WE0 19 18 W 0 54 34			GEOGR MSC	44	226	9	1	1638 2080	40 50	3	23	8	SWT
5E 4	LOCKTON 2	TG3 939	WE0 19 18 W 0 54 34			MSC	47	119	7	8	1289 1289	29 29	7	23	8	SWT
5E 7	LOCKTON 4	TG3 SEW	WE0 19 17 W 0 54 29			MSC	47	206	9	3	1638 1638	40 40	3	23	8	SWT
5E 8	LOCKTON 5	ST9191721	WE0 18 36 W 0 57 38			GEOGR MSC	47	229	7	9	1691	55	6	24	4	SWT
5E 9	LOCKTON 4	TG0965746	WE0 16 39 W 0 56 11			GEOGR MSC	48	144	7	6	2091	57	2	23	8	SWT
5E 10	LOCKTON 7	TG179019	WE0 17 55 W 0 55 28			GEOGR MSC	48	221	9	2	2134	54	4	21	2	SWT
5E 11	ROSEDALE NO 1	TG179491	WE0 20 41 W 0 55 28			GEOGR MSC	44	109	7	5	843 843	50 50	0	25 25	3	SWT
5E 13	ANSERS NO. 1	SU011351	WD1 30 00 PT W 1 8 00 CL	166/00 1693	GEOGR S P	57	4	0 5	1	1	1	1	1	1	1	1
5E 14	OAKLANE NO. 1	TG3 8	WE0 18 57 W 0 46 17			GAM	73	17	0	6	1524	5	0	23	8	SWT
5E 17	BARTON NO. 1	TI2564947	WF0 4 42 W 0 52 47			MDC	73	34	10	2	1515	51	7	27	3	LOS
10W	ST 7	31 3

INDEX NO	NAME OF SUBBASIN / LOCALITY	BRITISH GRID REFERENCE	LATITUDE/ LONGITUDE	DATUM/ DATE OF SURVEY/ REFERENCE	GEOL	SOIL	SUB-STR UCTURE	VEG	PHOS-PHATE	TOP SOIL	TEMP TYPE	TEMP DEPTH	TEMP FROM	TEMP TO	CORR TEMP	CORR GRAD
46 01	BURTON-ON-STATHER	SE8731892	53 40 12 N W 0 40 12	Ord S 1974/1980	TLS	TLS	SEDIM S	PT	TR	30	14.00	1	100 1500	12.0 20.0	DST	TM
46 05	BUTTERWICK HO 1	SK4200540	53 29 02 N W 0 41 57 R	JLT Pub/09 1988	TERT	TERT	SEDIM S	PT	TR	10	11.50	1	100 1400	11.0 14.0	ST	DST
46 09	CROWLE NO 1	TF7911370	53 36 02 N W 0 51 55 R	S J 1976/1977	RTH	SEDIM S	PT	TR	10	2.00	0.75	1	125 1200	6.0 8.0	DST	DST
46 21	MOTTISLIB NO 1	SK5100694	53 30 17 N W 0 54 00 R	JLT 1976/1977	TERT	TERT	SEDIM S	PT	TR	2	20.00	1	100 1400	11.0 14.0	ST	DST
46 22	MOTTISLIB NO 2	SK5100674	53 30 17 N W 0 54 00 R	JLT 1976/1977	TERT	TERT	SEDIM S	PT	TR	4	10.00	1	100 1400	11.0 14.0	ST	DST
46 23	LOWLEFT NO 1	TF0045519	53 29 02 N W 0 41 57 R	S J 1976/1977	RTH	SEDIM MSC		TI	10	9	7.1745	47	25.5 1500	DST DST	TM	53
46 25	NORTH SALTHA 1	TF0175277	53 29 02 N W 0 39 15	S J 1976/1977	RTH	CRH		TI	10	3	1.0	1.5	1.4	16.1	DST	TM
46 31	POOLINGTON NO 1	SE8504600	53 54 12 N W 0 51 55 R	S J 1976/1977	RTH	CRH		TI	70	20	0.1000	103.2	148.7	DST	RK	
46 37	SEATON ROSS NO 1	TF0235865	53 54 12 N W 0 51 55 R	S J 1976/1977	RTH	CRH		TI	10	10	0.1000	145.0	150.0	DST	RK	
46 39	SOUTH ETHERY 1	SE4 0P2	53 38 07 W 1 18 17	JLT 1976/1977	TERT	GF		PA	10	2	1.0	1.5	1.4	39.6	SMP	TM
46 41	SOUTH CLIFFE 1	SE7912522	53 46 20 W 0 46 00	JLT 1976/1977	TERT	CRH		TI	10	10	4.1976	56.7	67.3	DST	TM	
46 49	KNAPLME NO 2	TF0982479	53 29 02 N W 0 41 57 R	S J 1976/1977	RTH	SCH		TI	30	10	0.1000	55.0	57.7	DST	TM	
46 53	WHITHILL	TF7945578	53 29 02 N W 0 41 57 R	S J 1976/1977	RTH	CRH	1.2 KM E OF ELSHAM	TI	40	75	0.1	1452 2000	55.6 58.0	24.5 1500	DST DST	TM
46 55	AMELSHAM	TF4360760	53 29 02 N W 0 53 47 R	S J 1976/1977	RTH	CRH		TI	10	12	0.8	1.5	1.4	24.2	SMP	TM
46 61	ANDERBY	TF5417161	53 29 02 N W 0 39 15 R	S J 1976/1977	RTH	CRH		TI	10	75	0.1	1410 1500	47.0 50.0	23.2 1500	SMP DST	TM

INDEX NO	NAME OF SUBMARINE /LOCALITY	SECTION NOT SECS /SQUARE	LATITUDE/ LONGITUDE	DEPTHS TO BOTTOM/ SOUNDING DEPTHS/ REMARKS	DAY	DATE	MON	YR	D S NOT- ATT	SUB- DEPTH	TEMP PRES	TEMP SURF	TYPE CTDO	TYPE CTDC	CODE TEMP	CODE SALIN
											DEPTH					
67 67	HILLYSEA	6402N421	WSO 53 10 W 0 50 59		MOD	7S	11	44	4	22	4	29 6	LSU			
68 68	NORTH SHIELDS	6702N524	WSO 45 30 W 1 25 00		WF	05U	73		6	39.5	540 540	39 6 39 6	JS 2 JS 4	ESM		
69 69	BRICKET WOOD	5617N497	WSO 53 10 W 0 50 59		MCS	7S	69	39	4	700	34	0	27 4	LSU		
70 70	SELBY NO.3	6157N532	WSO 47 30 W 1 00 00		MCS	7A	5	69	5	425	27	3	26 8	LSU		
71 71	TRAPLEET NO.1	4051N129	WSO 04 02 0 W 0 47 30	4.7 151 FIX-FIX 1979	E F	5F	7	69	5	151	15	0	15 4	LSU		
72 72	TRAPLEET NO.5	4054N149	WSO 05 42 0 W 0 47 30	24.7 192 QUICK 1117	E F				9	30.5	1113	41 7	29 1	ESM		
73 01	WYMONDHAM NO.1	9230N734	WSO 14 10 W 0 39 00		GEOCH	MDC		222	7	0.247	1	24 7	24 7	JSM	62 7	28 0
74 02	LOFTUS NO.6	9909N882	WSO 17 00 W 0 36 0		GEOCH	MDC		71	264	7.9	1810 2129	32 0 55 0	21 6 23 6	JSM JSM	61 5 5M	28 0 - -
75 03	THORNE COLLIERY	4705 159	WSO 04 30 W 0 50 5					5	23	2 20.5	457	10 2	14 9	LSU	74	10 0
76 04	SPIRTHY	644 637	WSO 51 30 W 1 00 00		WF	05U										
77 05	SPIRTHY BRONZE	654 607	WSO 51 30 W 1 00 00		WF	05U										
78 06	APPLEDOR FARM	428 388	WSO 50 24 W 1 24 48		WF	05U										
79 01	ROCKINGTON BOA	6388N194	WSO 52 54 00 W 0 41 00		MCS	7A	7	69	5	824	27	5	22 9	VST		
80 02	BRIDGEWATER #11	5419N548	WSO 28 1 00 W 3 00 00		MCS	7A	8	69	5	747	24	5	27 1	VST		
81 03	BRIDGEWATER T36	5430N549	WSO 29 19 00 W 3 00 00		MCS	7A	12	69	6	779	32	5	26 7	VST		
82 04	BRIDGEWATER #22	5440N539	WSO 32 0 00 W 3 19 22		MCS	7A	26	69	10	799	32	0	26 4	VST		

INDEX NO	NAME OF BOREHOLE /LOCALITY	BRITISH NATIONAL GRID REFERENCE	LATITUDE/ LONGITUDE	DEPTHS TO BASE OF STRATA (METRES)	GTH OF BAT	GRDE OF BAT	YR CLD OF DATA	SUR- FACE	DEPTH TO TYPE	TOP OF UNIT	THICK NESS OF UNIT	TOP OF UNIT	THICK NESS OF UNIT	COMM ENTS
SE40	SNODSWORTH ESS	TG399370	WPD 51 37 01 W 1 12 39		WCB	TS		7	16.5	TRN	25.1	24.4	VST	
SE40a	SNODSWORTH NOR	TG410880	WPD 51 38 23 W 1 10 41		WCB	TS	AP	10.1	TRN	29.0	24.9	VST		
SE50	HARKAM MAIN BH1	LF720492	WPD 52 12 02 W 0 51 00		WCB	T		7	16.5	TST	15.4	21.9	VST	
SE50a	HARKAM MAIN BH4	LF735238	WPD 52 09 50 W 0 50 47		WCB	T		8	18.5	TRS	17.7	21.2	VST	
SE50b	FRISLEY ESS	TL600283	WPD 52 05 19 W 0 23 54		WCB	TS		10	16.4	STR	28.8	24.7	VST	
SE51	HILLYALEY	TG952545	WPD 52 58 08 W 1 11 08		WCB	T		11	16.8	SAN	34.8	32.9	VST	
SE51a	HILLYALEY	TG931195	WPD 52 41 14 W 1 11 08		WCB	T		9	16.4	TGS	32.6	30.6	VST	
SE51b	PECKFIELD	TG822235	WPD 52 47 53 W 1 21 19		WCB	T		4	16.5	TRS	19.1	28.3	VST	
SE51c	PRYSTON	AF732150	WPD 52 43 50 W 1 24 46		WCB	T		25	16.4	TRS	29.9	31.2	VST	
SE51d	BRIDESWATH COLL	HR26 STE	WPD 53 00 02 W 1 12 24		T	20	27	16.0	TAL	25.9	24.0	GPM	2M	- -
									TAL	24.1	25.5	GPM	2M	- -
									STR	49.6	24.5	GPM	2M	- -
									STR	74.1	25.5	GPM	2M	- -
									TAL	99.6	24.5	GPM	2M	- -
SE51e	HATFIELD COLL	SK57 112	WPD 53 25 02 W 1 0 47		T	21	4	10.5	PST	31.9	27.0	GPM	2M	21.9 0
									TST	52.2	27.2	GPM	2M	22.2 27.9
									TST	79.4	27.2	GPM	2M	22.2 27.9
									TST	107.3	27.9	GPM	2M	22.2 27.9
SE51g	BENTLEY COLLIERY	HR70 6TE	WPD 53 36 00 W 1 9 21		T	21	5	16.5	TRS	23.6	23.8	GPM	2M	- -
									TAL	47.4	25.4	GPM	2M	- -
									TAL	72.8	25.4	GPM	2M	- -
									TAL	98.2	25.4	GPM	2M	- -

INDEX NO	NAME OF SUBSCRIBLE	BRITISH NATIONAL GRID REFERENCE	LATITUDE/ LONGITUDE	DEPTHS TO SEABED IN METRES REDUCED	STN USED	DATE	YR	J.D.	DUR- ATION	DEPTH IN METRES	TEMP 1	TEMP 2	TEMP 3	TIME 1	TIME 2	TIME 3
04 i	MICHAEL	SS312294	WGS 84 60 W 4 S 1 W 2	60.2 / 1707	310	70	2 11	0 350	10.0 10.0 10.0	22 9 120 22 9 120				104	22 9	19 9
04 j	ERIN TED	4779231A	WGS 52 14 E 2 W 5	285.9 / 442	WF	69U	72	1 150	9.2	284 11.7 284 11.7 284 11.7					ESM ESM ESM	
04 k	CHRIS V BRENDA 69	TF 7SE 208	WGS 50 E 1 W 51		HT	25U		153	9	49	15.0	15.0	15.0		ESM	
04 m	WILKESLEY	A2864494	WGS 56 7 W 2 S 1 W 2	J. 151.7 1606		10S	60	79	20.0	82? 35.0 1482 35.0 1482				24.4	0447	
04 n	NELTON GREEN	4237457J	WGS 4.02 W 2 S 1 W 2	60 1925.71 1102		03U	95	14	20.0	1102 20.0 1102 20.0 1102				24.4	0447	
04 p	PEEKS HS 1	550 344	WGS 54 17 W 2 S 2 W 2			TMI	73	99	10.0	1728 74.4 2716 84.7 3432 73.3 4148 74.4				23.1	0447	
04 q	SHEPSFORD	3437778A	WGS 17 47 T 2130.9 W 2 S 1 W 2	3972 / 3651		06A	76	81	14.0	3657	58.8			25.9	0447	
04 r	ALLOTMENT	9417219Y	WGS 52 13 T 2 W 4 S 1 W 4	254.5 / 1911		MCE	76	117	7.0	1911 1090 1090 1090	38.7 32.2 32.2			26.9	0447	
04 s	DEACON	9402267T	WGS 49 13 T 2 W 2 S 1 W 2	153.8 / 573		MCE	75	98	5.9	952	26.7			26.9	0447	
04 t	ERNEN HILL	9716119T	WGS 49 13 T 2 W 2 S 1 W 2	200.5 / 777		MCE	76	77	10.0	1040	26.9			26.9	0447	
04 u	SPIDLMAN	9764206T	WGS 48 13 T 2 W 2 S 1 W 2	202.6 / 976		MCE	74	105	9.9	976	33.3			24.4	0447	
04 v	DEAD MOND	3R3 451	WGS 52 W 2 S 1 W 2	FY APG		MCE	71	25	10.0	1154	32.0			16.8	1.56	

INDEX NO	NAME OF BOROUGH/LA /LOCALITY	BRITISH LATITUDE/ NAT GRID REF/LONG	LATITUDE/ LONGITUDE	DEPTHS TO BASE OF STRATUM/ BOREHOLE TERMINUS	GRA DAT	SAVE VE OF DATA	D SUB- STRUC TURE	DEPTH TEMP TEMP TYPE OF C CASE OF LINE	TIME TIME TEMP	CORR TEMP
5J 26	ENDON	443629E	WSG 51 12 W 2 0	T 1.5/C 1007	MCB	74	82 16.0 1007	33.2	23.0	1.0
5J 27	FISLERS	367913E	WSG 43 0 W 3 20.67	T 171.0	MCB	74	148 9.4 990	27.8	16.6	1.0
5J 30	HARWARDS	444924E	WSG 46 55 W 2 15	T 215.0/ 693	MCB	75	169 9.0 952	28.4	18.4	1.0
5J 31	KINGSTON	447323W	WSG 48 26 W 2 0	T 85.0/ 728	MCB	75	88 10.0 728	25.4	17.4	1.0
5J 32	STANYLAN WO 1	370040E	WSG 50 42 W 2 16.83	C 494	MCB	76	124 9.8 924	30.0	20.2	1.0
5J 33	SWALLOW CROFT C	022984N	WSG 54 14 W 2 15	F 109/	MCB	74	454 7.6 1691	27.2	16.2	SWT 754 36.2 24.6
5J 34	TWENT LANE	395525N	WSG 49 39 W 2 0	T 957	MCB	73	76 15.0 719	27.9	19.5	1.0
5J 35	WHITHOME	807941E	WSG 59 34 W 2 0	C 395. 992	MCB	73	128 9.7 992	27.6	17.4	SWT
5J 36	WILLOW MOOR	944327N	WSG 50 41 W 2 0	T 183	MCB	74	81 16.0 752	30.0	23.0	1.0
5J 37	BRAMLEY MILL	516 7N/T	WSG 47 N W 2 40.12		GEOCH GRU MP		76 16.6 249	24.0	15.4	0.0
5J 38	CLIFTON	528 65N	WSG 49 0 W 2 40.12		GEOCH GRU MP		46 10.7 249	15.4	9.3	0.0
5J 39	GROVEHILLS	551 48N	WSG 48 30 W 2 40.12		GEOCH GRU MP		102 10.4 440	14.8	9.6	0.0
5J 40	PRIORS MEWES	512 6eN	WSG 11 30 W 2 40.12		GEOCH GRU MP		32 10.8 344	13.9	10.2	0.0

INDEX NO	NAME OF BOREHOLE	DIGITISING AUTHORITY	LATITUDE/ EASTING	DEPTH TO BOTTOM OF	GTA SHT	GRID REF	YR	G.D DAT	GAP	BOTTM STRATA	TERM CODE	TERM TYPE	TERM CONF	TERM CLASS	CORR CODE	CORR TYPE
			LONGITUDE/ NORTHING	PENETRATED												
SJ 61	HOLFORD		4479597	WSJ 28 W/ W 2 E 10		MF	8	2F	30	16.8	168	14.2			EGH	
											240	14.2			EGH	
											241	14.2			EGH	
											274	14.2			EGH	
											304	14.2			EGH	
											335	14.2			EGH	
											350	14.2			EGH	
											381	14.2			EGH	
											396	14.2			EGH	
SJ 42	NORTON POLE		LPS 24	WSJ 49 S/ W 1 E 22		19	5F	122	10.5	580	17.5				VAT	
										1000	17.5				VAT	
										1041	17.5				VAT	
										1061	39.0			24.9	VAT	
SJ92	FLIXENCE COLL		9098425	WSJ 92 SE W 1 E 1	CU		MCB	75	133	0.7	786	36.0		28.5	VAT	
SJ92	FLIXENCE COLL		9098429	WSJ 92 NE W 2 E 11	CU		MCB	75	137	0.7	786	38.0		28.7	VST	
SJ92	MOLESTON COLL		8100778	WSJ 1 SE W 2 E 10	CU		MCB	75	168	7.5	862	36.5		24.4	VST	
SJ92	MOLESTON COLL		8099614	WSJ 1 NE W 2 E 14	CU		MCB	75	121	7.9	820	34.9		20.9	VST	
SJ94	MELSTON COLL		9300440	WSJ 94 SW W 1 E 1	CU		MCB	75	128	9.7	869	28.6		24.6	VST	
SJ94	MELSTON COLL		9300570	WSJ 1 SE W 2 E 15	CU		MCB	75	135	9.7	1100	43.9		29.4	VST	
SJ97	SILVERDALE COLL		8325627	WSJ 9 NE W 2 E 16	CU		MCB	75	123	9.8	845	27.7		17.9	VST	
SJ93	HEN HEATH COLL		8498284	WSJ 93 NW W 1 E 1	CU		MCB	75	116	9.8	760	39.9		31.3	VST	
SJ97	HEN HEATH COLL		8972411	WSJ 97 SE W 1 E 1	CU		MCB	75	148	9.4	979	33.3		24.5	VST	
SJ97	HEN HEATH COLL		7027411	WSJ 97 SE W 1 E 1	CU		MCB	75	148	9.4	804	30.5		24.1	VST	
SJ91	PARKSIDE COLL		6359742	WSJ 24 NE W 2 E 24	CU		MCB	76	39	19.8	908	25.5		18.2	VST	

INDEX NO.	NAME OF BOREHOLE /LOCALITY	BRITISH GRID REFERENCE	LATITUDE/ LONGITUDE	DEPTHS TO BASE OF STRATUM (METRES)	GR ELEV (M)	DATE OF DRILLING	WA TER	S.W.L. (M)	SUB-ARTE SIAN	DEPTH OF BOREHOLE (M)	PIPE DIA METER (MM)	TEMP. CASED	TEMP. OPEN	TYPE OF CASING	TIME FROM	TIME TEMP	CONST. TEMP. (°C)
SJ913	PARKSIDE DELL	SJ 9130 1300	WS 23 17 CU W 2 34		36	18	N			27.4	152	27.4					
SJ913	BOLE DELL	SJ 9290 1400	WS 23 17 CU W 2 34		36	18	N	28	5	1021	31.0	28.5	VST				
SJ913	BOLE DELL	SJ9290 1390	WS 23 17 CU W 2 34		36	18	N	28	5	28.6	20.6	24.6	VST				
SJ913	PARSONAGE DELL	SJ9490 1410	WS 23 2 CU W 2 34		36	19	N	19	8	1909	30.5	19.7	VST				
SJ914	BIDDERSHAW COLL	SJ9140 1410	WS 23 7A CU W 2 34 17		36	20	N	19	8	834	27.2	19.4	VST				
SJ917	BIDDERSHAW COLL	SJ9490 1410	WS 23 7A CU W 2 34 17		36	22	N	19	9	999	28.2	17.3	VST				
SJ913	DEEP PIT			5	20	170	5	4.5	1951 1953 1954 1956 1957	25.0 25.0 25.0 25.0 40.8	1954 1954 1954 1954 1957	88 88 88 88 88					
SJ917	WOLSTANTON COLL	SJ9740927	WS1 1 7U W 2 11 17		400	75	152	5.4	1100	41.8	29.3	VST					
SK 12	BEECHDOWN NO.1	7921760F	WS 19 14 7U W 6 20 36 F	175.3L 400 GEORN S 660.0U 1589			B.P	4.8	2	10.5	1021	55.8 47.0 49.4	47.0 49.4 23.4	VST VST BST	24	-	-
SK 12	BEECHDOWN NO.2	7929760N	WS 19 2 U W 6 48 23 TL	0.3L TOPSOIL 445.8L 465 CM 1021			B.P	4.8	2	10.5	1021	24.4	23.5	BST	1159	04.9	17.9
SK 14	BEECHDOWN NO.3	7899760E	WS 19 9 7L W 6 48 23 TL	445.8 457 CM 1021			B.P	4.8	3	10.5	1021	39.4	47.9	BST	94	04.4	24.0
SK 15	BEECHDOWN NO.4	7911760W	WS 19 8 7L W 6 48 23 TL	0.3L TOPSOIL 445.8L 475 CM 1021			B.P	4.8	3	10.5	1021	37.0	27.3	BST	1159	04.9	17.9
SK 16	BEECHDOWN NO.5	7925760S	WS 24 21 7L W 6 48 23 TL	0.3U 1020 445.8L 1040			B.P	4.8	2	10.5	788	29.9	19.6	BST	34	40.9	20.0

INDEX NO	NAME OF SHORELINE /LOCALITY	SECTION NOT USED NEAR LOBO	LATITUDE/ LONGITUDE	EDITED TO DRAW UP-TO-DATE POSITIONS	SRCE DIST	%G OF SRCE	S.D. DEPTH TYPE FACE	SURF TYP	TIDE TYPE	CURR TYPE	CONS TYP	CONN TYP
57	SECTION#MAP NO 6	7889NW	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	S.P	70	3 in 5	SAND	2	1	4	1
58	1 SECTION#MAP NO 7	7889NW102	MPG 24.25 W 0 44.67	168.8 CO 1537	S.P	70	2 in 5	SAND	2	1	4	1
59	1 SECTION#MAP NO 8	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
60	1 SECTION#MAP NO 9	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
61	1 SECTION#MAP NO 10	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
62	1 SECTION#MAP NO 11	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
63	1 SECTION#MAP NO 12	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
64	1 SECTION#MAP NO 13	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
65	1 SECTION#MAP NO 14	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
66	1 SECTION#MAP NO 15	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
67	1 SECTION#MAP NO 16	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
68	1 SECTION#MAP NO 17	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
69	1 SECTION#MAP NO 18	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
70	1 SECTION#MAP NO 19	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
71	1 SECTION#MAP NO 20	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
72	1 SECTION#MAP NO 21	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
73	1 SECTION#MAP NO 22	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
74	1 SECTION#MAP NO 23	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
75	1 SECTION#MAP NO 24	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
76	1 SECTION#MAP NO 25	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
77	1 SECTION#MAP NO 26	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
78	1 SECTION#MAP NO 27	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
79	1 SECTION#MAP NO 28	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
80	1 SECTION#MAP NO 29	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
81	1 SECTION#MAP NO 30	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
82	1 SECTION#MAP NO 31	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
83	1 SECTION#MAP NO 32	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
84	1 SECTION#MAP NO 33	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
85	1 SECTION#MAP NO 34	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
86	1 SECTION#MAP NO 35	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
87	1 SECTION#MAP NO 36	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
88	1 SECTION#MAP NO 37	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
89	1 SECTION#MAP NO 38	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
90	1 SECTION#MAP NO 39	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
91	1 SECTION#MAP NO 40	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
92	1 SECTION#MAP NO 41	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
93	1 SECTION#MAP NO 42	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
94	1 SECTION#MAP NO 43	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
95	1 SECTION#MAP NO 44	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
96	1 SECTION#MAP NO 45	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
97	1 SECTION#MAP NO 46	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
98	1 SECTION#MAP NO 47	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
99	1 SECTION#MAP NO 48	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
100	1 SECTION#MAP NO 49	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
101	1 SECTION#MAP NO 50	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
102	1 SECTION#MAP NO 51	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
103	1 SECTION#MAP NO 52	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
104	1 SECTION#MAP NO 53	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
105	1 SECTION#MAP NO 54	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
106	1 SECTION#MAP NO 55	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
107	1 SECTION#MAP NO 56	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
108	1 SECTION#MAP NO 57	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
109	1 SECTION#MAP NO 58	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
110	1 SECTION#MAP NO 59	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
111	1 SECTION#MAP NO 60	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
112	1 SECTION#MAP NO 61	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
113	1 SECTION#MAP NO 62	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
114	1 SECTION#MAP NO 63	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
115	1 SECTION#MAP NO 64	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
116	1 SECTION#MAP NO 65	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
117	1 SECTION#MAP NO 66	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
118	1 SECTION#MAP NO 67	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
119	1 SECTION#MAP NO 68	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
120	1 SECTION#MAP NO 69	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
121	1 SECTION#MAP NO 70	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
122	1 SECTION#MAP NO 71	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
123	1 SECTION#MAP NO 72	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
124	1 SECTION#MAP NO 73	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
125	1 SECTION#MAP NO 74	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
126	1 SECTION#MAP NO 75	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
127	1 SECTION#MAP NO 76	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
128	1 SECTION#MAP NO 77	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
129	1 SECTION#MAP NO 78	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
130	1 SECTION#MAP NO 79	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
131	1 SECTION#MAP NO 80	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
132	1 SECTION#MAP NO 81	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
133	1 SECTION#MAP NO 82	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
134	1 SECTION#MAP NO 83	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
135	1 SECTION#MAP NO 84	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
136	1 SECTION#MAP NO 85	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
137	1 SECTION#MAP NO 86	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
138	1 SECTION#MAP NO 87	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
139	1 SECTION#MAP NO 88	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
140	1 SECTION#MAP NO 89	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
141	1 SECTION#MAP NO 90	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
142	1 SECTION#MAP NO 91	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
143	1 SECTION#MAP NO 92	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
144	1 SECTION#MAP NO 93	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
145	1 SECTION#MAP NO 94	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
146	1 SECTION#MAP NO 95	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
147	1 SECTION#MAP NO 96	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
148	1 SECTION#MAP NO 97	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
149	1 SECTION#MAP NO 98	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
150	1 SECTION#MAP NO 99	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
151	1 SECTION#MAP NO 100	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
152	1 SECTION#MAP NO 101	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
153	1 SECTION#MAP NO 102	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
154	1 SECTION#MAP NO 103	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
155	1 SECTION#MAP NO 104	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
156	1 SECTION#MAP NO 105	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
157	1 SECTION#MAP NO 106	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
158	1 SECTION#MAP NO 107	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
159	1 SECTION#MAP NO 108	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
160	1 SECTION#MAP NO 109	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
161	1 SECTION#MAP NO 110	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
162	1 SECTION#MAP NO 111	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
163	1 SECTION#MAP NO 112	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
164	1 SECTION#MAP NO 113	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
165	1 SECTION#MAP NO 114	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
166	1 SECTION#MAP NO 115	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
167	1 SECTION#MAP NO 116	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
168	1 SECTION#MAP NO 117	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
169	1 SECTION#MAP NO 118	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
170	1 SECTION#MAP NO 119	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
171	1 SECTION#MAP NO 120	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
172	1 SECTION#MAP NO 121	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
173	1 SECTION#MAP NO 122	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
174	1 SECTION#MAP NO 123	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
175	1 SECTION#MAP NO 124	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
176	1 SECTION#MAP NO 125	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
177	1 SECTION#MAP NO 126	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
178	1 SECTION#MAP NO 127	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
179	1 SECTION#MAP NO 128	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
180	1 SECTION#MAP NO 129	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
181	1 SECTION#MAP NO 130	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
182	1 SECTION#MAP NO 131	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
183	1 SECTION#MAP NO 132	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
184	1 SECTION#MAP NO 133	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
185	1 SECTION#MAP NO 134	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
186	1 SECTION#MAP NO 135	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
187	1 SECTION#MAP NO 136	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
188	1 SECTION#MAP NO 137	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
189	1 SECTION#MAP NO 138	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
190	1 SECTION#MAP NO 139	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
191	1 SECTION#MAP NO 140	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
192	1 SECTION#MAP NO 141	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
193	1 SECTION#MAP NO 142	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
194	1 SECTION#MAP NO 143	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
195	1 SECTION#MAP NO 144	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
196	1 SECTION#MAP NO 145	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
197	1 SECTION#MAP NO 146	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
198	1 SECTION#MAP NO 147	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
199	1 SECTION#MAP NO 148	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
200	1 SECTION#MAP NO 149	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
201	1 SECTION#MAP NO 150	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
202	1 SECTION#MAP NO 151	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
203	1 SECTION#MAP NO 152	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
204	1 SECTION#MAP NO 153	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
205	1 SECTION#MAP NO 154	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
206	1 SECTION#MAP NO 155	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
207	1 SECTION#MAP NO 156	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
208	1 SECTION#MAP NO 157	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
209	1 SECTION#MAP NO 158	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
210	1 SECTION#MAP NO 159	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
211	1 SECTION#MAP NO 160	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
212	1 SECTION#MAP NO 161	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
213	1 SECTION#MAP NO 162	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
214	1 SECTION#MAP NO 163	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
215	1 SECTION#MAP NO 164	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
216	1 SECTION#MAP NO 165	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
217	1 SECTION#MAP NO 166	7889NW70	MPG 24.25 W 0 44.67	TL 861.8 CO 1537	SEL	70	2 in 5	SAND	2	1	4	1
218	1 SECTION#MAP NO 167	7889NW70

INDEX NO	NAME OF BOREHOLE /LOCALITY	BRITISH GRID REFERENCE	LATITUDE/ LONGITUDE	DEPTHS TO BOTTOM OF PENETRATION/ PENETRATED	GTN	GRID NO	GS DATE	TOP	BOT	SUB-STRATA	DEPTH TEMP	TEMP	TYPE	TYPE	CORE	CORE DIAM
								M	M		M	DEGC		CODE	CODE	
59 33	BOTHAMHALL NO 2	NY5547SW	NY5 15 28	1 1238.8	291	GEOCH	8 F	59	60	14	1165	37.8			24.2	SHET
			W 2	1 1238.8											24.2	SHET
59 33	BOTHAMHALL NO 3	NY5547SW	NY5 15 28	1 1238.8	291	GEOCH	8 F	59	94	15	1165	37.8			15.5	125
			W 2	1 1238.8											15.5	125
59 25	CORSEHEAD NO 1	NY3172SW	NY3 25 25	0 -10.2	165	S F	58	234	235	14	1141	59.9			29.2	SHET
			W 2	0 -10.2												
				CO 1141												
59 33	CORSEHEAD NO 2	NY3747SW	NY3 33 27	0 -5.5	70	GEOCH	8 F	59	67	14	1142	50.4			27.5	SHET
			W 2	0 -5.5												
				CO 1142												
59 37	CORSEHEAD NO 3	NY3953SW	NY3 39 53	0 -76.5	250	S F	58	134	135	14	1177	57.9			39.9	SHET
			W 3	0 -76.5												
				CO 1177												
59 37	CORSEHEAD NO 5	NY3953SW	NY3 39 53	0 -6.2	85	S F	58	97	98	14	1188	54.4			27.8	SHET
			W 3	0 -6.2												
				CO 1188												
59 40	CORSEHEAD NO 10	NY3953SW	NY3 39 53	0 -171.7	1148	S F	58	77	78	14	1170	54.2	SHET	1188	59	29.6
			W 3	0 -171.7												
				CO 1170												
59 41	GAISLEHOLME 1	NY2479SW	NY2 47 79	0 -77.4	779	S F	58	77	78	15	1730	41.7			19.1	SHET
			W 2	0 -77.4												
				CO 1730												
59 41	GAISLEHOLME 2N	NY2480SW	NY2 48 80	0 -754.9	752	S F	62	33	34	15	1731	38.7	SHET	64	49.3	33.3
			W 2	0 -754.9												
				CO 1731												
59 41	GAISLEHOLME 3N	NY2479SW	NY2 47 79	0 -77.4	779	S F	58	45	46	15	1001	34.7			24.2	SHET
			W 2	0 -77.4												
				CO 1001												
59 41	GAISLEHOLME 3S	NY2479SW	NY2 47 79	0 -305.9	732	S F	58	45	46	15	1686	35.4			24.2	SHET
			W 2	0 -305.9												
				CO 1686												
59 41	GAISLEHOLME 4N	NY2480SW	NY2 48 80	0 -11.7	644	S F	58	42	43	15	1409	42.2	SHET	74	47.2	33.3
			W 2	0 -11.7												
				CO 1409												
59 41	GAISLEHOLME 4S	NY2480SW	NY2 48 80	0 -29.5	612	S F	58	42	43	15	1384	27.4	SHET	84	33.4	21.5
			W 2	0 -29.5												
				CO 1384												
59 41	GAISLEHOLME 4100	NY2514SW	NY2 51 14	0 -109.7	931	S F	72	39	40	13	1405	47.8		23	58.7	27.2
			W 2	0 -109.7										24	58.7	27.2
				CO 1405												
59 41	GAISLEHOLME 4200	NY2514SW	NY2 51 14	0 -85.3	878	S F	75	38	39	13	1402	47.8	SHET	118	49.2	34.4
			W 2	0 -85.3												
				CO 1402												

INDEX NO	NAME OF SHIP/RIG /LOCALITY	BRITISH REF/ GRID REFERENCE	LATITUDE/ LONGITUDE	DEPTHS TO TOP OF WRECK/ SEABED	GTN	SRCE	NO OF HTS	G.D SUR- FACE	DEPTH TOP	TIDE CORR	TIME TO TIDE	TIME CORR	CODE	TIDE TOP
59 SY	SHOVE NO 1	TG220670	WGS 13 2 T	SEE/W 6.2M E	90	GDB	1	0	6.2	0.0	0	0.0	21 6	SHF
			W 0 52.14 CS 1073						1825	76.9		32.3	SY	
59 SY	SHOVELE NO 3	A324P510	WGS 13 2 T	SE/W 6.2M E		S	5	121	7.8	0.0	0	0.0	21 6	SHF
			W 0 52.14 CS 1072											
59 SY	SHOVELE NO 4	A317P570	WGS 13 2 T	SE/W 2.0M E	00	GDB	4	0	58	76.9	21	32.3	16 9	SHF
			W 0 52.14 CS 1071						1822	76.9		32.3	21 6	SHF
49 SW	WISH PONDWAY	B0937P328	WGS 13 22 T	4SE/W 5M E	90	GDB	2	0	9	16.6	1276	27.2	23 0	SHF
			W 0 54.0 CS 1064							16.6	1276	27.2	23 0	SHF
69 SW	WRECKFIELD NO.1	SZ0509P08	WGS 13 7 31		90	GDB	2	0	5	10.0	1	0.2	9 6	SHF
			W 0 54.0 CS 1063							10.0	1	0.2	9 6	SHF
49 SX	WORTON NO 1	T7329241	WGS 25 20 0	1.6/7 E/W 600M E/W	90	S	5	1	18.5	12.75	45 0	20.1	0	SHF
			W 0 54.0 CS 1062							12.75	45 0	20.1	0	SHF
49 SZ	WRECKLL NO 1	1442P094	WGS 23 39 T	1.4NE/W 2M E/W	90	S	15	13	16.4	1292	86.3	2.0	14	47.6 27
			W 0 54.0 CS 1061							1292	86.3	2.0	14	47.6 27
													18	52.3 34.2
59 SX	STAPLEFORD NO 1	A9072P05	WGS 55 1 T	SP/SL 1.6A E	90	GDB	4	52	19.0	1.4	12	22.5	SHF	
			W 1 14.52											
59 SY	SOUTH LEVERTON 1	TF3090W4	WGS 19 51 T	4.1/.8 S/E	7/5	GDB	6	0	6.7	0.0	0	0.0	23 9	SHF
			W 0 49.52 CS 1059						1503	83.0		32.9	SY	
59 SY	SOUTH LEVERTON 1	TL327085	WGS 19 51 T	2.5NE/W 5M S/E	9/9	S	P	42	21.1	83.0	1458	80.9	30 L	LOG
			W 0 52.22 CS 1060											
59 TR	TOWNSEY NO 8	A8027P22	WGS 10 10 J	1.7/.5 S/W	MOE	T5	00	10	14.1	1289	62.9	2.7	21M	14.9 29.5
			W 0 48.18 P	T25/30/1989										
59 TR	TIDDELL	5772P19	WGS 20 46 P	1/S-SE/1799 E/S	90	S	58	24	16.3	1309	71.7	35.9	SHF	
			W 0 54.0 CS 1058											
59 TY	WALKERSHAWE 1	TF3530W3	WGS 28 5 T	3NE/S 2M E/W	9/6	GDB	6	0	7.9	0.0	0	0.0	26 6	SHF
			W 0 55.96 CS 1055						1503	83.0		32.9	SY	
59 TY	WALKERSHAWE 2	TF3090W3	WGS 28 53	4NE/S 2M E/W	6/3	S	13	31	19.3	1295	47.2	26.5	SHF	
			W 0 55.96 CS 1056							1295	47.2	26.5	SHF	
59 TY	WARSAWTH	A4F9P607	WGS 23 52 T	2.2/S E/W	9/5	MCE	53	30	19.3	MSR	29.2	24.2	LOG	
			W 0 54.0 CS 1057											

INDEX NO	NAME OF SURVEYALE /LOCALITY	BRITISH NAT GRID REFERENCE	LATITUDE/ DEPTHS TO LONGITUDE BASE OF SUPERFICIAL DEPOSITS	HTH DAY	SAVE OF DRTH	WD MT	E/ W TEMP	MAX TEMP	MIN TEMP	TIME OF FROST	TIME OF THAW	CUMM FROST TEMP	CUMM THAW TEMP
90 SX	SUNDAY HOUR	4430934	WGS 19 42 W 1	110.9	350	NCS	40	46	39	4	815 AM	16.7	867
			84 1 05	CU	1037						1029	89.9	867
90 SX	EILDY	4395836	WGS 19 20 W 1	41.P	225	NCS	41	29	33	4	1015 AM	29.7	25
			84 1 27	CU	1021								
90 SY	CARN BARK	4397957	WGS 5 42 W 1	11.P	257	NCS	62	66	39	1	942 AC	34.7	109
			84 1 03	CU	942								
90 SY	CLOVETH	4453394	WGS 52 51 W 1			NCS	56	76	49	0	SLP	17.0	102
			84 1 03										
94 SW	COTGRAVE WD.1	4511342	WGS 55 05 W 1	CU	400	NCS	55	46	19	2	525 PM	16.9	106
			84 1 01										
94 SW	COTGRAVE WD.3	4494295	WGS 90 0 W 1	CU	591	NCS	55	38	18	3	579 PM	33.1	106
			84 1 0 2										
94 TS	MATTERSEY	4512979	WGS 23 54 W 1	101.P	240	NCS	55	8	15	1	742 PC	34.4	106
			W 0 58 W	CU	1242								
94 TS	NORWAY	4251858	WGS 23.27 W 1	4.CU	1000	NCS	54	14	16	4	930 PC	31.8	102
			84 1 0								1000 PC	31.8	98
94 NY	POPPLEBUS	5440512	WGS 2 07 W 1	47.CU	492	NCS	8				1000 AC	31.8	
			W 1 11 2								1000 PC	31.8	
											947 PC	29.9	
94 TV	RUNBY CAMP	4430875	WGS 49 9 T	145.P	314	NF	2	57	45	10	2 241	14.9	
			W 1 0 12	CU	500						241	14.9	
											241	14.9	
											524	23.5	
											524	23.5	
											524	23.5	
											774	34.7	
											774	34.7	
											811	31.5	ESM

INDEX NO	NAME OF BEARING / LOCALITY	SECTION / SUB-SECTION / MAP-LINE	LATITUDE / LONGITUDE	EQUIVALENT BEARING TO BASE OF TRANSVERSE	DIST	ERR	SEC	W	S.E	SUN-SHOT DATA	DIFF	DATUM / TEMP	TEMP	TEMP	TYPE	TIME	TIME	TIME
59101	RINGH HALL	A4570107	WG 20 1 S W 1 S	20 S 27 1/2	113	HP	2		ST	20	16	3	228 11.5 228 11.5 228 11.5 228 11.5 228 11.5 575 44.3			ESM ESM ESM ESM ESM 30.7	ESM		
59102	SCAFTAGRTH	A7469142	WG 25 1 S W 8 52	27 1/2 57 1/2	354	HP	2		ST	19	19	4	221 11.4 221 11.4 221 11.4 221 11.4 221 11.4 839 29.4 839 29.4 839 29.4 1146 40.5			ESM ESM ESM ESM ESM ESM ESM ESM 20.9	ESM		
59103	TIMARTH	A4958559	WG 21 44 T W 1 S	110 P 27 1/2	263	B.P	53		25	01	15	3	1549 55.1 1549 55.1			27.5 27.5	SWT SWT	19h 20m	45 3 42.4	11 0 28 0
59104	WEST DRAYTON 2	A7667844	WG 45 00 T W 9 57	20 1/2P 30 1/2P	372		HCS	53		29	13	3	1458 51.9 1458 51.9			23.9 24.7	SWT SWT			
59105	CALLOW HO 1	A6958744	WG 23 44 W 1 S	110 27 1/2			GEODOK	B.P	53	125	0.8	3	1233	39.4		24.7	1.05			
59107	EVAN	2067405	WG 24 50 S W 1 S	0	1865.0	185%	HP		OBS	93	230	5	1217	38.9		23.9	ESM			
59111	HENBRIDGE WALL	0691478	WG 44 16 W 1 S	FT 257.05 0	EQT		HCS	66		74	31	2	1217	39.2		24.1	SWT			
59112	APPLEYARD HS 1	4557519	WG 14 44 W 1 S	TL 351 TL 351	FT +/2		HCS	60		82	10	2	1417	46.9		26.3	SWT			
59114	SLYTON	8434952	WG 23 50 W 1 S	S S	A.T	564	GEODOK	B.P		66		4	1217	39.5		22.0 22.0	SWT SWT	3h	36.4	21.4
59115	ESTHWHALL HS 4	A4479963	WG 25 24 W 1 S	T 0	HILL P		SQ			59	41	16	1194	43.9		29.9	SWT			
59116	ESTHWHALL (2)	A4957344	WG 25 24 W 1 S	T 0	HILL P				B.P	59	34	16	1188	42.5		31.8	SWT			

INDEX NO.	NAME OF BOREHOLE /LOCALITY	BRITISH NAT GRID REFERENCE	LATITUDE/ LONGITUDE	DEPTHS TO BASE OF FORMATIONS (METRES)	GTH	HEGE	YR	D	O	SUR-	DEPTH	TEMP	TIME	TYPE	TIME	CORR
					INT	SF				FACE	INT	C	AFTER	OF	FROM	TEMP
										TEMP			CIRC	TEMP	TEMP	
36127	ECTHERMAL NO 5121	6497734	NY53 13 12	T 1.05 P	220		E	P		SP	96	45	1	6	34	4 LS1
			W 1 5 6	CG SS1												
36128	ECTHERMAL NO 6	6851735	NY55 49 14	T 1.05 P	167		E	P		SP	72	40	3	147	41	5 26 Y
			W 1 37 30	CG SS1												
36129	ECTHERMAL NO 7	6953731	NY54 59 12	PT 311.00	784		E	P		SP	39	20	3	784	21	3 23 M
			W 1 39													
36130	ECTHERMAL NO 8	6594737	NY53 15 00	T 1.05 P	314		E	P		SP	42	20	2	1028	37	2 16 J
			W 1 41	CG SS1												
36131	ECTHERMAL NO 9	6600761	NY53 15 37	T 1.05 P	312		E	P		SP	45	20	3	1024	34	2 15 J
			W 1 41	CG SS1												
36132	ECTHERMAL NO 10	6614782	NY53 15 47	T 1.05 P	307		E	P		SP	41	20	3	1120	37	4 23 L
			W 1 41	CG SS1												
36133	ECTHERMAL NO 11	6571724	NY53 15 20	T 1.05 P	308		E	P		SP	40	20	3	1044	32	2 21 L
			W 1 41	CG SS1												
36134	ECTHERMAL NO 12	6727730	NY53 15 24	T 1.05 P	342		E	P		SP	37	20	3	1144	33	2 24 L
			W 1 41	CG SS1												
36135	ECTHERMAL NO 13	6441781	NY53 15 07	T 1.05 P	305		E	P		SP	44	20	3	975	35	4 25 Y
			W 1 41	CG SS1												
36136	ECTHERMAL NO 15	6621674	NY53 15 73	T 1.05 P	251		E	P		SP	28	20	3	1035	28	7 27 L
			W 1 25	CG SS1												
36137	ECTHERMAL NO 16	6650940	NY53 15 62	T 1.05 P	307		E	P		SP	25	16	3	992	33	9 23 S
			W 1 25	CG SS1												
36138	ECTHERMAL NO 17	6693704	NY53 14 57	T 1.05 P	388		E	P		SP	46	20	3	1034	36	1 24 Y
			W 1 41	CG SS1												
36139	ECTHERMAL NO 18	6608724	NY53 14 52	T 1.05 P	286		E	P		SP	46	20	3	998	39	4 22 L
			W 1 41	CG SS1												
36140	ECTHERMAL NO 19	6674787	NY53 15 43	T 1.05 P	314	271	GEOCH	E	P		60	27	10	3	914	37 2 24 L
			W 1 41	CG SS1												1 LS1
36141	ECTHERMAL NO 20	6597744	NY53 15 32	T 1.05 P	304			SCK	E	P		SP	43	20	3	823	39	4 31 L LS1
			W 1 41	CG SS1												
36142	CALDA NO 6	6097702	NY53 10 01	GU SS1							645	63	169	0	908	24	9 6A J
			W 1 10 07													

INDEX NO	NAME OF BOREHOLE /LOCALITY	EASTING LATITUDE/ NAT GRID REFERENCE	LONGITUDE	DEPTHS TO BASE OF FORMATION IN METRES	GEN	DRCE	WD	G R	SUB- STRATA	ELEV'N OF TOP	TYPE OF RIG	TYPE OF CASING	CORE DIAM	CORE TYPE
91145	CHARTON NO 23	7336400E	WES 3 20	P	CLA/S	TOR	S.P	52	59	10	2-3	250	4	20.3	SWT
91146	CHARTON NO 24	7336300E	WES 3 20	P	DPS.P	TOR	S.P	52	28	10.0	484	23.0	19.8	SWT
91147	CHARTON NO 22	7335810E	WES 3	P	SS/P	393	S.P	54	15	10.0	712	27.4	19.8	SWT
91151	COLTYN PRIORY 5	7740113E	WES 52 29	J	SS/T	346	HCS	58	37	10.5	480	37.0	41.6	100
91147	CORNISHMEN WD.1	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.2	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.3	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.7	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.8	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.9	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.10	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.11	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.12	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.13	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.14	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.15	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.16	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.17	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.18	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.19	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.20	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.21	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.22	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.23	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.24	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.25	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.26	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.27	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.28	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.29	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.30	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.31	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.32	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.33	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.34	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.35	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.36	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.37	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.38	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.39	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.40	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.41	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.42	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.43	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.44	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.45	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.46	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.47	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.48	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.49	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.50	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.51	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.52	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.53	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.54	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.55	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.56	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.57	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.58	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.59	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.60	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.61	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.62	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.63	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.64	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.65	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.66	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.67	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.68	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.69	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.70	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.71	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.72	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.73	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.74	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.75	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.76	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.77	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.78	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.79	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.80	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.81	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.82	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.83	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.84	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.85	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.86	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.87	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.88	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.89	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.90	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.91	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.92	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.93	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.94	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.95	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.96	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.97	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.98	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.99	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.100	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.101	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.102	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.103	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.104	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.105	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.106	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.107	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.108	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.109	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.110	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.111	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.112	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.113	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.114	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.115	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.116	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.117	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.118	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.119	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.120	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.121	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.122	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.123	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.124	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.125	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.126	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.127	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.128	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.129	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.130	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.131	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.132	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.133	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.134	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.135	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.136	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.137	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.138	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.139	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.140	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.141	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.142	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.143	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.144	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.145	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.146	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.147	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.148	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.149	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.150	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.151	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.152	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.153	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.154	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.155	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.156	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.157	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.158	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.159	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.160	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.161	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.162	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.163	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.164	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.165	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.166	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.167	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.168	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.169	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.170	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.171	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.172	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.173	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.174	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.175	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.176	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.177	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.178	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.179	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.180	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.181	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.182	6994970E	WES 25 18	Q	LS/P	85	S.P	49	23	25.6	4457	52.1	25.2	100
91147	CORNISHMEN WD.183	6994970E	WES 25 18	Q	LS/P	85

INDEX NAME OF BOREHOLE /LOCALITY	BRITISH GRID REFERENCE	LATITUDE/ LONGITUDE	DEPTHS TO BASE OF FORMATION/ BOREHOLE	GEOLOGICAL UNIT	GW STRIKE (DEGREES)	NO. OF INFLOWS	Q (L/S)	DATE OF FIRST WATER	DEPTH TO WATER	TYPE OF WATER	TIME FROM START	TYPE OF TEST	CODE FOR TEST
SK37SW 6	SK3720047100	53 11 49 N 01 29 00 W	45.7	MGS	57	01	3.0	01/01/ 45	15.9	UNK	0.0	UNK	UNK
SK37SW 7	SK3800047100	53 11 49 N 01 28 00 W	45.7	MGS	57	01	3.0	01/01/ 45	15.9	UNK	0.0	UNK	UNK
SK43SE 1	SK4513886	53 11 51 N 01 22 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 1	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 2	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 3	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 4	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 5	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 6	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 7	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 8	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 9	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 10	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 11	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 12	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 13	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 14	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 15	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 16	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 17	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 18	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 19	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 20	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 21	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 22	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 23	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 24	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 25	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 26	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 27	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 28	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 29	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 30	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 31	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 32	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 33	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 34	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 35	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 36	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 37	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 38	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 39	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 40	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 41	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 42	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 43	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 44	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 45	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 46	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 47	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 48	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 49	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 50	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 51	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 52	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 53	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 54	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 55	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 56	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 57	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 58	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 59	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 60	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 61	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 62	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 63	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 64	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 65	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 66	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 67	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 68	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 69	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 70	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 71	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 72	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 73	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 74	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 75	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 76	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 77	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 78	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 79	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 80	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 81	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 82	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 83	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 84	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 85	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 86	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 87	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 88	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 89	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 90	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 91	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 92	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 93	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 94	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 95	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 96	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 97	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 98	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 99	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 100	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 101	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 102	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 103	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 104	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 105	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 106	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 107	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 108	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 109	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 110	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 111	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 112	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 113	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 114	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 115	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 116	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 117	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 118	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 119	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 120	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 121	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 122	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 123	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 124	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 125	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 126	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 127	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 128	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 129	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 130	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 131	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 132	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 133	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 134	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 135	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 136	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 137	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 138	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 139	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 140	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 141	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 142	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 143	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 144	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 145	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 146	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 147	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 148	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 149	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 150	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 151	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/01/ 45	10.7	SW	0.0	UNK	UNK
SK44SW 152	SK4700047100	53 11 49 N 01 21 00 W	12.2	LBY SEDIM ENTS	90	01	2.5	01/

INDEX NO.	NAME OF BOREHOLE / LOCALITY	BRITISH NATIONAL GRID REFERENCE	LATITUDE / LONGITUDE	DATUM + ETEV (m)	STA	DATE OF DRILLING	GRID REF.	HR	G.D PLAT	SUR- FACE	DEPTH (m)	TEMP	TEMP	TYPE OF TEMP.	CORR. FROM	CORR. TO	CORR. TEMP.
36137	TURFORD	TL2870NW	OPQ 13 W W 0 55 7	SURVEY ITL CD 1274	ST1			B/P	24	70	152.4	12.2		43.4	147		
36139	PATHWAY	OT211776	OPQ 44 30 7 W 1 52 35	254.0	EST			BA	96	9	884.14-8 884.14-8			43.0 45.0	457 1500		
36175	BARDINGFIELD 1	A1227272	OPQ 11 W W 0 7 30	7.0 CD 497	ST1			NOR	61	29	100.6	27.5		27.2	1.55		
36176	BESTHORPE	6286N3641	OPQ 16 W5 W 1 0 W	CD 998				NOR	76	90	16.8	900	29.8	32.3	SWT		
36177	BESWICKTHO FARM	OPQ 19 15 W 1 57 41	FT 255-CD	ST1				NOR	62	27	16.3	854.46-1 854.46-1		30.0 30.0	457 1500		
36178	BINHAM NO 1	TF829195	OPQ 54 W W 0 57 0	2.7 CD 1274	ST2			NOR	59	23	16.4	752	26.3	24.4	LOG		
36179	BLYTHE	6110N1	OPQ 22 24 W 2 30 0	0.0 E1/16.1644	ST2			NOR	54	45	12.2	127.8	25.9	1.00	1#	12.5	10.7
36180	CALDWELL'S CLOSE	6107N1	OPQ 58 W W 0 57 50		ST2			NOR	76	62	16.1	414	28.9	25.5	SWT		
36181	CASTLE VIEW	TL4972TC	OPQ 51 W W 0 59 57		ST2			NOR	75	48	16.1	572	29.4	25.0	SWT		
36182	CLARDON HALL	TL3725TC	OPQ 44 24 W 0 53 22		ST2			NOR	75	33	16.3	438	29.4	24.6	SWT		
36183	EDGWORTH 47	1764S2TC	OPQ 43 W W 1 57 0		ST2			B/P	47	76	16.8	1000	46.0	29.9	SWT	2#	--
36184	EDWYNN LODGE	6583S3321	OPQ 52 24 W 0 43 27	5 MSL-P	ST2			NOR	76	100	9.9	777	27.0	22.6	SWT		
36185	ELMES COTTAGE 1	5749S3611	OPQ 2 24 W 1 37 25	68.9 CD 495	ST2			NOR	67	77	16.9	695	27.8	25.5	SWT		
36186	EWBY FARM	TF782713	OPQ 35 24 W 0 49 30		ST2			NOR	74	36	16.3	748	35.8	33.3	SWT		
36187	EXTON HALL	TL1276SE	OPQ 17 41 W 0 36 30	6.7 CD 1274	ST2			NOR	83	26	16.8	951	29.2	27.3	LOG		
36188	EYPERSTONE NO 1	4454N5NW	OPQ 13 W W 1 53 0	103.9 CD 1274	ST8			NOR	63	37	19.3	716	35.4	34.5	LOG		

INDEX	NAME OF SURVEYOR LOCALITY	DIVISION	LATITUDE	DEPTHS TO BASE OF UNCONSOLIDATED MATERIALS	DTH	SRCE	YR	S.D	DIR	DATE	DEPTH	TOP	TOP	TIME	TIME	CORR
		DET DRG	LONGITUDE		DET	DRG		DTH				CONS	SED	CONS	SED	CONS
		MAP/LOC#										CONS	SED	CONS	SED	CONS
91480	FLAVELEY	A7687465	WTG 10 05 7	2015.7	343		HCS	62	62	69	2	974	41.1	25.2	1.05	
			N 53 30 00													
91514	FARLEY'S WOOD 3	7A4711J	WTG 14 12	1915.7	370		HCS	57	54	69	2	950	39.4	24.0	1.05	
			N 53 30 00													
91571	FLOPSPOT FARM	8507702	S 10 J	76.7	453		HCS	78	17	69	4	757	27.0	6.5	1.04	
			W 0 43	0 F	684.0	708										
91610	FOREST LANE	5548514A	WTG 13 12	2014	56		HCS	67	88	69	0	692	30.0	29.7	SW	
			N 53 30 00													
91639	GARSTON	A6913774	WTG 9 0	0	5.7	145	HCS	61	24	69	4	954	25.0	22.3	SW	34
			N 53 30 00		1811.6	474										
91674	GLANVILL VILLAGE	8523439	WTG 11 21	CU	37.	386	HCS	59	177	7.4	386	21.1		09.4	LOS	
			N 53 30 00													
91676	GOSSEDALE FARM	8508742J	WTG 2 57	0 F	93	MF	2	56	75	10.0	115	12.9		EUR		
			N 53 30 00									13.0		EUR		
												13.1		EUR		
												314	25.5	19.1	EUR	
91691	GROVE PARK	7307703	WTG 18 4	CU	1064		HCS	74	48	10.2	1064	20.0		19.3		
			N 53 30 00													
91737	HATHORPE GRANGE	4724492	WTG 20 41	0	1.7	188	HCS	72	13	6.4	574	32.0	33.2	10.5		
			N 53 30 00		1205.6	605						33.2	22.5	SW		
91739	HARDY HILL	7A4329K	WTG 90	0			HCS	76	148	7.6	893	27.7	22.9	LOS		
			N 53 30 00													
91767	HARSTON HALL	8518105	WTG 52	95			HCS	75	75	10.0	330	23.4	16.0	SW		
			N 0 45 30													
91769	HARTSHILL	4A4554A	STG 4 58	FT	211.0	924	HCS	61	64	69.1	926	35.0	27.9	LOS		
			N 5 1 24													
91824	HICKLING BRIDGE	4691287	WTG 51 41				HCS	76	31	9.3	544	22.5	12.5	SW		
			N 0 30 30													
91826	HILLS FARM	7499203	WTG 52 13				HCS	79	35	10.3	575	24.6		14.1	SW	
			N 0 30 30													
91829	HOLME GRANGE	4122384	WTG 20 21	34.7	434		HCS	62	21	10.6	437	24.6		15.0	SW	
			N 53 30 00													

DSRS NO.	NAME OF SUBGRADE /LOCALITY	BRITISH LATITUDE/ NAT GRID REFERENCE	LONGITUDE	DEPTHS TO SAMPLE(S) IN METRES	GTH OF SAMPLE	HOLE TYPE	W.T. DEPTH	E.S. DEPTH	SUBGR. TYPE	TEMP AT TIME OF TEST °C	TEMP AT GRADE OF TEST °C	TIME FROM TEST	CORR TEMP °C	CORR TEMP °C
SK324	HOLME SOUTH	727624N	1852 49 W M 0 55 W	1 245.7 F<	0.63	600	WCB	74	233	5 A	277 P	24 H	277	
SK324	KING JOHN	8995424N	1852 49 W M 1 4 W	1 0.3F 140 0.9 550		WCB	68	52	19 S	936	25 A	20 Y	28F	24
SK324	KIRTON	4988654N	1852 12 W M 0 55 W	1 F? 345.0 935		WCB	58	53	16 S	835.5		31 T	100	
SK324	KNEESHALL	7135458N	1852 13 W M 0 56 W	1 T 274.F 0.2 524		422	WCB	57	88	16 S	814	28 S	30 R	100
SK324	KEDHILE BRIDGE	7447358N	1852 06 W M 0 59 W	1 F 0.4		WCB	74	41	16 S	473	25 A	16 S	30 R	
SK324	RUTHERWOOD	3458659N	1852 44 W M 1 19 W	1			306	77	167	9 S	976	14 S	29 Y	28F
SK324	LAITON	7751 41 N M 0 58 W	1852 11 W M 0 56 W	1 220.F 422 0.2			WCB	57	79	16 S	952	16 S	30 Z	100
SK324	LINDOLME LANE	5738320N	1852 3 30 T M 0 55 W	1 F? 137 0.2			WCB	68	122	9 S	752	24 T	22 U	28F
SK324	LOANS	7648858N	1852 13 W M 0 56 W	1 0.3 207 P 377.0V 1864			WCB	57	9	16 S	1052	24 T	27 Z	100
SK324	MAPLE BECK	7756456N	1852 8 W M 0 55 W	1 F 344.0V 142			WCB	74	41	16 S	452	25 A	23 U	100
SK324	MEADOW LANE	7282306N	1852 15 W M 0 56 W	1 F? 376.C 452			WCB	74	80	16 S	452	24 T	24 U	28F
SK325	HILL MOUNT	7903376N	1853 18 S M 0 54 S	1 F 303.F 463 0.1 554			WCB	72	60	16 S	952.2		25 B	28F
SK326	MIXON	695 958	1853 27 S M 0 57 S	0 F 0.5 F? 275 NF P 463.V2 1220			1	55	6 16 S	787 24 S 854 24 T 952 24 T 1052 24 T 1152 24 T 1252 24 T		6 S	30 R	
SK327	NORTH LASTINES	4758642N	1853 16 S M 0 55 S	P 325.0V 658		WCB	74	74	16 S	1452	25 A	23 A	100	

INDEX NO	NAME OF SURVEYOR / LOCALITY	BRITISH LATITUDE/ MAP SHEET REFERENCE	DEPTHS TO BASE OF SUPERFICIAL DEPOSITS	SOLID GEOLOGY	GRID REF	O.D. OR DATUM	FIRST WATER STRIKE	TEMP	TEMP	TYPE OF WELL	CASE OF WELL	CASE DIAM	CASE DEPTH	CHEM TEMP
SK20														
SK20 SE	SILKSTON COLL	453 E 413 N (1) SE 6 SE	24	MCB	SK	74	74	10	40	140	12	6	40	
											240	30	6	45
SK20 SE	PLOUGH HS 23	743031M	MCB 40	C	3.4	39	MCB	74	59	59	10	1	80	24
					3.4	39								
SK21	SOLTHPOOD FARM	457732E 413 N	MCB 42	M	4	FT	454.02	SCO	MCB	61	75	10	1	80	11	5	15	11
					W	1	98											
SK22	SUGGSPEAV	872942E 413 N	MCB 45	I	5	F	472.02	Mst	MCB	54	47	10	6	Mst	18	6	24	5	EWT	49	-	-
SK23 SE	TERRACE HILLS	893891E 413 N	MCB 46						MCB	76	143	9	6	Pro	39	12	2	75	9	EWT
SK24	THWPEND BRIDGE	474075E 413 N	MCB 11	SE	7	201.9	207		MCB	62	23	10	6	MCP	28	9	31	8	EWT
					W	0	57	11										
SK27	WALTHOW LANE	791127E 413 N	MCB 50	SW	4	1	1	1	MCB	76	148	9	6	Pro	24	8	26	9	EWT
			SW	0	50	1												
SK28 SE	WELBECK COLLIERY	550670E 413 N	MCB 13	SW	6	1	1	1	MCB	69	79	10	1	Mst	32	9	36	6	LOS
			SW	0	50	1												
SK29 SE	WHARTONRIG	716750M	MCB 31	SE	2	FT	386.0	419	MCB	76	34	10	3	429	24	9	21	6	EWT	12M	24.0	25.0
			W	0	50	FT												
SK30 SE	WOODSLEY	867345E 413 N	MCB 15	N	F	455.0	1926	MCB	76	7	10	6	1926	36	9	20	6	EWT
			W	0	50	FT												
SK31 SE	WOLLOW FARM	754528E 413 N	MCB 29	SE	7	FT	449.0	Tri	MCB	76	66	10	1	Tri	27	8	28	7	EWT
			W	0	50	FT												
SK32 SE	WISTERTON	717192E 413 N	MCB 25	W	0	50	1150		MCB	79	10	10	4	1115	24	9	1150	6	LOS	24	-	-
														1150	32	8	17	7	LOS	44	45.0	47.5
														1150	40	7	1150	8	LOS	48	47.5	50.0
SK33	WOOLSTHORPE GRGE	893038E 413 N	MCB 43	SE	2	FT	471	Ald	MCB	76	60	10	1	352	24	9	21	6	EWT
			W	0	50	FT	516.0	Tri										
SK34	WRELEWOOD HS 2	977904E 413 N	MCB 14	Mg	FT	325.0	1512	S P	66	51	10	2	1512	36	9	25	7	EWT
			W	1	98													
SK35	WRELEWOOD HS 3	455975E 413 N	MCB 13	SE	FT	208.0	1497	S P	60	30	10	2	1488	36	9	22	7	EWT
			W	0	50	FT												

INDEX NO	NAME OF BOREHOLE /LOCALITY	ENTITIN NOT DRGD BY/LIGHT	LATITUDE/ LONGITUDE	DEPTHS TO BASE OF FORMATION PENETRATED	GM SHT	GRID REF IN SHT	YR	G.L. ELEV. M/OD	SURV. METH OD	PAGE 27 TEMP. TYPE OF CASING	TYPE OF CASING	CORR TYPE FROM	CORR TYPE TO	CORR TYPE CODE
SK23?	RIBDWN 82	TIAYTPA	WGS 54 23 W 0 03 58	C 879	66DCK	B.P	66	24 116	4 DHT	0.00 0.61 SLT 0.61 33.4 SLT 33.4 57.9 STK 57.9		SI Y SI Y SI Y		
SK23S	REDDLE NO 1	RAKT2SNO	WGS 53 29 W 0 04 52	C 96	66DCK	B.P	62	57 10.2	TBS 0.00 TBS 0.30 TBS 1.52 TBS 20.5	0.30 1.52 20.5 SLT 0.00	SI Y SI Y SI Y SI Y			
SK23V	TORVIEW NO 1	6523YNOW	WGS 17 TC 0 17	1791	66DCK	B.P	A2	7 16.5	HAND 0.00 HAND 54.6	0.00 54.6	SI Y SI Y			
SK24%	EWKRNG 5	4773612	WGS 8 33 T 0 28	389 MF	4	83	83 16.6	SURV 0.00 SURV 0.00 SURV 0.00	0.00 0.00 71.9	SI Y SI Y SI Y				
SK24%	EWKRNG 6	4763642	WGS 8 33 T 0 28	344 MF	4	85	86 16.8	SURV 0.00 SURV 0.00 SURV 0.00 SURV 0.00 SURV 0.00 SURV 0.00 SURV 0.00	0.00 0.00 0.00 0.00 0.00 0.00 70.1	SI Y SI Y SI Y SI Y SI Y SI Y SI Y				
SK24C	EWKRNG 4A	4760892	WGS 7 31 T 0 29	371 MF	4	85	73 16.6	SURV 0.00 SURV 0.00 SURV 0.00 SURV 0.00 SURV 0.00 SURV 0.00 SURV 0.00	0.00 0.00 0.00 0.00 0.00 0.00 38.1	SI Y SI Y SI Y SI Y SI Y SI Y SI Y				
SK24V	EWKRNG 1A1	4830922	WGS 7 31 T 0 30	212.9 324 MF	4	83	80 16.8	SURV 0.00 SURV 0.00 SURV 0.00	0.00 0.00 45.6	SI Y SI Y SI Y				
SK24%	COUNTESS 11	7951A03%	WGS 8 4 T 0 54	325.9 355 MF	4	85	30 16.5	SURV 0.00 SURV 17.9 SURV 0.00 SURV 0.00 SURV 0.00 SURV 0.00 SURV 0.00	17.9 0.00 0.00 0.00 0.00 0.00 31.0	SI Y SI Y SI Y SI Y SI Y SI Y SI Y				
SK2MS	WILKAW WELL 1	7594S7A0	WGS 4 08 T 0 51	364.F 407 MF	4	40	52 16.0	SURV 0.00 SURV 0.00 SURV 0.00 SURV 0.00	0.00 0.00 0.00 0.00	SI Y SI Y SI Y SI Y				

INDEX NO	NAME OF SUBSIDIARY /LOCALITY	BRITISH REF (NGR) MERIDIAN	LATITUDE/ LONGITUDE	DEPTHS TO BASE OF SUPERFICIAL DEPOSITS	STR ENT	UNCE OF WT	W.D. FROM DATUM	SUB-STR UCTURE	TEMP TEMP (C)	TEMP TEMP (F)	CASE 2/3 GRAD OF TEMP	TIME FROM	TIME TEMP	CORR TEMP (C)	CORR TEMP (F)
64240	SOUTH EASTERNTON	SU4 4EY	WS1 0.1E W 6 47.5E	?	NF	ONU		LB	30.6	87.1		24.5	45M		
64241	TORVEY HO 3	SP487641	WS1 17.4W W 5 40.4 W	J 12.5 TOU P13.5 LAST	S P	63		S	30.5	86.9		1122 1422 1722	31.2 31.2 31.2	87.2 87.2 87.2	
64242	TORVEY HO 2	SP5177A	WS 17.1E W 5 42.4W	J 11.7 P.2LC 1477	SAL	S P	3	3	30.7	87.2		1122 1423 1723	31.0 31.0 31.0	87.8 87.8 87.8	
64243	SOUTH EASTERNTON 3	SU3366A	WS1 16.5E W 6 46.5E	T 42A.9 T 43A.9	SCP	S P	64	11	30.4	1120	86.4				
64250	BLANDFORD CLL					MCB	69		30.5	724	31.7	22.9	DHT		
64251	SOUTH EASTERN 2	SU4 4EY	WS1 17.1E W 6 48.1E	T 41A.9 C 10B	SPK	S P	61	10	30.4	1128	86.7			5M 5A	41.5
64252	SOUTH EASTERN 3	SU4 4EY	WS1 18.7E W 6 49.7E	T 41.9 C 10B	SPK	S P	61	11	30.4	1128	86.7			4M 4A	39.9
64253	SOUTH EASTERN 5	SU4 4EY	WS1 19.7E W 6 50.7E	? 40.9 C 10B	SPK	S P	61	7	30.5	1125	32.9	32.9	DHT	4M	
64254	SOUTH EASTERN 9	SU4 4EY	WS1 20.5 W 6 47.12	? 39.9 C.5 LIST	SPK	S P	61	7	30.5	1125	86.5	24.7	DHT	3M 3A	38.3
64255	DOLSTN SHASLY H	SU4 4EY	WS2 52.8W W 5 54.2W	J 12.7 P 12.8 LIS	SSB	S P	58	21	30.3	886	84.1	24.8	DHT		
64256	SHIPS 2 PETWRD	SU3 4EY	WS1 16.5E W 5 56.4E		SESCH	TR	64	19	30.4	1127	86.2	19.2	DHT		
64249	NEWTON 2	SU4 4EY	WS1 19.9E W 5 59.9E		SESCH	TR	8	15	30.5	247	87.0	25.7	DHT		
64257	NEWTON 1	SU3 4EY	WS1 19.9E W 5 59.9E		SESCH	TR	8	15	30.5	274	87.3	27.3	DHT		
64258	SOUTH SCARLE	SK5942NW	WS1 21.2E W 5 43.1E		SESCH	TR	8	10	30.4	250	86.7	25.5	DHT		
64272	RAMPTON HOSPITAL	TF4377NW	WS1 17.5E W 5 43.5E		SESCH	TR	25	14	30.4	162	84.4	22.8	DHT		

INDEX NO.	NAME OF BOREHOLE / LOCALITY	BRITISH NATIONAL GRID REFERENCE	LATITUDE/ LONGITUDE	DEPTH TO DRIFT/ TOP OF UPPERMOST PERMEABLE	STA TIC WATER LEVEL	SPR ING	WELL YIELD (L/S)	SUB-DRIFT DRAWDOWN (M)	DEPTH TO BEDROCK (M)	PUMP TEST TYPE	PUMP TEST DURATION	TIME FROM END OF PUMPING	TIME FROM START OF PUMPING
NY27S	SAXHOLME 1	814008N	WEST 22 25 N 54 43	GEOLOGY	?S		5	19.5	224	CS	2	21.1	SST
NY27S	SAXHOLME 2	814008N	WEST 22 25 N 54 43	GEOLOGY	?S		5	9.5	224	CS	2	22.6	SST
NY27T	CORNIGANNA NO	832 703	WEST 22 24 N 54 54	GEOLOGY	?S		20	4.5	209	CS	9	19.9	SST
NY29S	SAXHOLME 3	815019N	WEST 22 23 N 54 43	GEOLOGY	?S		4	29.5	221	SS	1	23.8	SST
NY29W	NEWARK	815209N	WEST 22 43 N 54 47	GEOLOGY	?S		15	20	212	CS	2	19.6	SST
NY29Y	CORNINGHAM	SPP 93L	WEST 22 53 N 54 49	HF	GWU		19	10.4	190	ZZ	8	31.8	EXH
SY90L	CLIPSTON COLL	415864SW	WEST 49 25 N 5 4	GU			MOD	?S	?S	00	1	24.4	VST
SY90L	WELBECK	4201737N	WEST 49 23 N 5 4	GU			MOD	?S	44	00	2	7.5	27.5
SY90L	MALTBY	5525754N	WEST 20 5 N 53 26	GU			MOD	?S	34	00	2	32.5	34.5
SY90L	WORKSOP NO	5595840N	WEST 20 32 N 5 5	GU			MOD	?S	25	00	4	24.1	VST
SY90L	WORKSOP NE	4562760N	WEST 17 0 N 5 3	GU			MOD	?S	23	00	4	25.9	VST
SY90L	WHEATRIGG	5645 50N	WEST 4 15 N 53 41	GU			MOD	?S	120	00	4	23.9	VST
SY90L	MUSKHILL	5645954N	WEST 4 21 N 53 41	GU			MOD	?S	76	00	4	32.2	VST
SY90L	MUSKHILL NO 1	5645955N	WEST 4 24 N 53 41	GU			MOD	?S	73	00	1	24.4	VST
SY90T	ROSSINGTON BGO	4242095N	WEST 27 14 N 53 21	GU			MOD	?S	20	00	4	25.4	VST
SY90U	YORKSHIRE RIDGE	5645 54N	WEST 27 44 N 53 27	GU			MOD	?S	84	00	4	27.7	VST

INDEX NO	NAME OF SCHEDULE / VISUALITY	BRITISH LATITUDE / MAY BRIGHTNESS	LATITUDE/ LONGITUDE	DEPTH/ TO BOTTOM OF SCHEDULE PENETRATED	GMA	DRCE	YR	D.D	SUB- DIV	DEPTH OF	TEMP	TEMP	TIME	TIME	CONS	CONS
					DAT	OF		MO	FACE	1M	C	SPEED	OF	FROM	TEMP	CTION
												OF				
39711	KOLYMSK	4572705E	WSG 13 57	CU	NCB	72	74	10	10	440	27.1	28.9	VST			
			W 1 19	30												
39712	OLYMPIYE V1	582 631	WSG 4 41	SU	NCB	78	197	9	9	748	26.8	28.2	VST			
			W 1 31	30												
39713	KURSIMS 7T	591 616	WSG 9 02	SU	NCB	79	114	9	9	645	32.9	28.3	VST			
			W 1 14	30												
39714	KURPSKI V2	5835N62	WSG 7 55	SU	NCB	75	117	9	8	759	32.2	27.5	VST			
			W 1 14	30												
39715	KOLLISHU COAL	6045 065	WSG 30 11	SU	S	24	156	9	8	729	22.9	18.6	CFW			
			W 1 14	30												
39717	ENGNETH COLL	6045 150	WSG 42 51	SU	NCB	57		10	5	317	10.4	9.1	VST			
			W 1 14	30												
39 1	GELLI ISHF PROJ	5711N227	WSG 43 39	S	2-C	110	700	75	137	10	10.0	10.0	VST			
			W 1 14	30												
39 1	EGTAG NO.4	6038N045	WSG 43 39	SU	NCB	45	1100	10	10	1100	10.0	10.0	VST			
			W 1 14	30												
39 1	EGTAG NO.2	6038N047	WSG 43 39	SU	NCB	45	528	9	6	1145	30.0	18.5	EBT	29	-	-
			W 1 14	30												
39 1	CYMRIDWR 4/5	5252N045	WSG 43 39	SU	NCB		177	10	4	866	31.5	24.3	EBT	46	31.0	44.1
			W 1 14	30												
39 1	CYMRIDWR 5/5	5176N085	WSG 43 39	SU	NCB		269	9	9	800	24.0	19.9	EBT	44	33.0	27.2
			W 1 14	30												
39 1	CYMRIDWR 5/4	5155N085	WSG 45 16	SU	NCB	60	250	10	9	780	30.0	24.7	EBT	44	42.0	42.7
			W 4 5	0												
39 1	TREFORAN NO.2	7748N708	WSG 45 12	SU	NCB	154	156	6	228	39.5	22.5	EBT	44	10	21.0	30.9
			W 5 37	30												
39 1	TREFORAN NO.3	7996N494	WSG 44 52	SU	NCB	112	126	988	228	22.7	32.4	EBT	44	51	31.0	44.1
			W 5 37	30												
39 1	TREFORAN NO.4	8180N079	WSG 44 36	SU	NCB		278	9	9	478	19.0	19.5	EBT	44	31.0	44.1
			W 5 37	30												
39 10	CYMRIDWR 3/5	5019N734	WSG 44 39	SU	NCB	60	158	10	5	884	36.0	25.7	EBT	38	51.0	44.6
			W 1 14	30												

ZONE/ SEQ	NAME OF BOREHOLE/ INSTALLATION	LATITUDE/ LONGITUDE	DEPTH/ TO STRATUM	ITM EAST	ITM NORTH	GROUND LEVEL	TOP/ BOTTOM OF STRATUM	TEMP	TEMP TYPE/ DATE/ TIME	TIME/ OF/ TEMP	CLIMB/ CORR/ TEMP
		REPLICATE	PENETRATED			DATA					
99 14	CHAMBINE 3/2	5057547?	MPI 44 28 M # ? 25			MCE	61	1%%	16.9	%%%	25.4	21 8	SMT	34	41.4	37.4
99 15	CHAMBINE 4/1	5053922?	MPI 45 28 M # ? 25			MCE	60	293	18.3	844	30.4	23.4	SMT	34	45.4	41.0
99 16	CHAMBINE 4/2	5053751?	MPI 45 28 M # ? 25			MCE	61	297	9.9	1018	30.2	23.2	SMT	34	45.7	37.4
99 17	CHAMBINE 4/3	5053608?	MPI 44 28 M # ? 25			MCE	62	222	19.2	1009	29.2	27.7	SMT	34	54.2	42.3
99 18	CHAMBINE 5/2	5052851?	MPI 45 28 M # ? 25			MCE	63	251	16.9	956	46.4	32.2	SMT	34	58.3	41.8
99 19	CHAMBINE 6/1	5054097?	MPI 46 1 M # ? 25			MCE	62	265	16.9	824	32.8	27.3	SMT	34	47.8	46.5
99 20	CHAMBINE 6/3	5053007?	MPI 46 28 M # ? 25			MCE	62	211	16.2	1016	61.7	30.9	SMT	34	54.7	45.7
99 21	CLAMFIED	4995814	MPU 28 28 0 M # ? 25	12-5	464	MF	590	74	14	10.9	377	17.3	21.1	69%		
99%%	FEIRE NO 1 COLL	0728 003	MPI 41 12 M # MF 25	CU		3	24	71	11.1	379	16.4	19.8	CFM	274	18.4	19.8
99%%	FEDILORN COLL	0828 928	MPI 42 84 M # MF 25	CU		3	24	336	9.8	267	12.2	10.3	CFM	274	12.2	13.3
99%%	OLTA CASTLE PIT	0896 928	MPI 42 84 M # MF 25	CU		3	24	1%%	10.2	1%%	12.4	15.3	CFM CFM CFM	274 274 274	15.3 22.9 28.9	15.3 22.9 28.9
99%%	POST MINERY	0482 997	MPI 45 72 M # MF 25	CU		4	24	45	11.1	311	17.1	23.6	CFM	24	-	-
99%%	MEN CROSSROADS	0540 131	MPI 45 72 M # MF 25	CU		4	24	1%%	10.6	1%%	12.4	15.3 20.2 22.0 27.9	CFM CFM CFM CFM	24 24 24 24	- - - -	- - - -
99%%	GARAN-CAE-GURAEN	0712 328	MPI 47 09 M # MF ?	CU		4	24	297	9.8	311	16.8	20.6 22.4 27.2 29.0	CFM CFM CFM CFM	24 24 24 24	- - - -	- - - -

SHEET NO.	NAME OF BOREHOLE OR TRIAL HOLE	SECTION LOCATION	LATITUDE/ EASTING TO DESCRIBE PENETRATIONS	DEPTH TO BOTTOM OF PENETRATION	DTM	SPCE WT	S.P.	SUB-STRUCTURE	DEPTH TO TOP	TEMP	TYPE	TYPE CODE	CORE DIA	CORE/ TRIAL HOLE	CORE LENGTH
89PO2	TAMAR1 CALLERY	4776 1614	WR1 A4 SS W 0 M 4	CU	4	24	169	19.5	422	16.9 1972	20.0	CFA	24	-	-
89PO3	BONVILLE COURT	4228 1534	WR1 A2 SS W 4 M2	CU	4	24	53	11.2	1693	15.5 1972	23.9	CFA	24	-	-
90 S1	RICHARTON HS 1	7762/4182	WR2 A 45 J W 0 M2	1.75 T 1762	1L1	63	70	10.7	2124	70.0 1972	27.1	BHF	94	71.0	25.0
90 L4	HELSTON OLD ABBEY	768 6791	WR 2 M	HF	OSU		50	10.7	2455	15.6	17.4	ELEM	134	41.5	22.0
93 L5	CHERSEY	837 4237	WR2 I5 MC W 2 I4 M		OSU		46	10.8	175	12.5	10.5	ELEM			
90PO2	CLOVITE CALLERY	4221 1529	WR1 A3 S W 3 M4 S1	CU	4	24	272	9.9	428	21.7	27.4	CFA	24	-	-
SP 1	STEEPLE ASTON	4487/3924	WR1 M5 A2 J W 1 I1 T	1185 FT 1220 HF 1 FT 1220 HF 7671.33 1172 8 7671.33 1172	OSU	71	731	15.2	206 208 169 169 209 209 202 202 202

INDEX NO	NAME OF BOREHOLE /LOCALITY	BRITISH GRID REFERENCE	LATITUDE/ LONGITUDE	DEPTHS TO BASE OF FORMATION/ BED/LAND	GTM DEP	GTM ANGLE	VE DIR	Q.D MT	SUR-FACE	DATE	TOP TUBE	TIME	CORR FROM	CORR TOP	CORR TEMP
					BATH			BATH							
SP 31	SOMERS MS 11	3420290W1	WGS 52 31	6.7M 197		WNW	64	NO	30 75	229	23		55	2	SWF
			W 1 24 11	C 232											
SP 31	SOMERS MS 11	3541410W	WGS 53 13	FT 496.0	283		NNE	64	162	50	4	252	17	2	27.1 SWF
			W 1 30 12												
SP 31	TOADCESTER T10	3452080W	WGS 2 56	C 43.4	105		NNE	45	79	30	6	268	10	3	11.8 LSS
			W 1 13 12	107											
SP 31	TOADCESTER T2	3379471W	WGS 4 05	D 26.4	179		NNE	45	139	39	2	160	12	2	12.3 LSS
			W 1 07 00	C 274.0	295										
SP 32	AVLEY SWAN	3490936W	WGS 52 47	25	93		ESE	45	93	35	5	1507	51	7	27.3 LSS
			W 1 56 5												
SP 32	TWYFORD MS 1	4802238W	WGS 51 30	J 138.6	155		E F	60	89	30	5	153	23	3	82.8 SWF
			W 1 0 08												
SP 33	HITCHCOCKE FARM	4319461W	WGS 3 26	J 165.7	351	MF	SSW	75	148	60	1	168	10	5	SWF
			W 1 10 12	C 177.4	1495								20	6	SWF
				TH 1064									30	7	SWF
													40	8	SWF
													50	9	SWF

INDEX NO	NAME OF SUPERVISE /LOCALITY	ENTIRE LATITUDE/ LONGITUDE	LATITUDE/ DEPTHS TO BASE OF SUCCESSIVE PENETRATED	OTH IDE	SRCE	YR	S.S. DATE	SUB-DEPTH FT	TEMP	TEMP	TIME	TIME	CORR TEMP
				NT	OF								
SP 54	EICESTER NO 1	5872200N 0815 52 W	WSL 0 FT M 1 FM			88		75	19 A	541	66 0	07.7	8WT
SP 55	TAMPAN NO 2	4795400 N0 76 W	WSL 0 FT 130 M 1 FM			87		8 P	44	50	38 5	058	11.1	48 9	8WT
SP 57	TAMPAN NO 4	4802750N 0	WSL 0 FT 0 M 1 FM			4.J	151	080	61	57	38 5	05	11.1	49	55.1	49.7	8WT
SP 58	WHISMPORE 1	7216598N	WSL 0 FT 0 M 1 FM			114.7	294	080	69	186	16 2	00	24.7	53 4	8WT
SP 59	WHISMPORE 2	3826857N	WSL 0 FT 0 M 1 FT 0			107.7	333	086	64	177	7	33	0	24.7	51 9	8WT
SP 60	WHISMPORE 3	3793997N	WSL 0 FT M 1 FM	J		240.7	360	086	64	175	9	8	278	52 2	57 3	8WT
SP 61	TAMPAN NO 5	8057548N	WSL 0 FT 30 M 1 FM	J		121.7	279	WP	69	193	73	30	0	24.7	53 4	8WT
SP 62	CROFT	513 748	WSL 0 FT 0 M 1 FM			60				19	14 7	307	14 5	11 4	8DM
SP 63	STOWELL FARM	969 110	WSL 0 FT 0 M 1 FM			624.7	1373		106	51	173	10	2 100	41 9	27 9	8WT	118
SP 65	CHALET	3694487N	WSL 0 FT 0 M 1 FT 0	J		125.C	1095		8CB	77	76	10	5	1253	28	11.7	8WT
SP 70	COWDRTH COLL	3230628N	WSL 0 FT 0 M 1 FM			60			8CB		108	40	4	732	26 5	13 8	VST
SP 72	HAMSTEAD COLL	4882 930	WSL 02 0 M 1 FM			60		5	22	122	10	0	64	206	2	05 9	CPR	2W
SP 93	2 PETROCSTRM NO 1	5 5291094	WSL 52 0 M 53 0	N		7.05	661	305	33	67	60	11	6	654	24 7	21 6	8WT
SP 94	2 PETROCSTRM NO 2	5 5291198	WSL 53 0 M 5 5	J		2 0.0	1235	305	47	62	14	0	300	21 1	31 1	8WT
SP 95	2 PETROCSTRM NO 3	5 5290933	WSL 51 0 M 5 1	N		3.08	914	305	40	57	11	7	314	20 9	30 0	8WT
SP 99	2 PHOTHES	6520972N	WSL 19 0 M 2 FT 0	J				CHK	70	154	50	0	2842	71 1	22 9	8WT	12W	70 1	24 4

INDEX NO.	NAME OF BOREHOLE / LOCALITY	BRITISH GRID REFERENCE	LATITUDE/ LONGITUDE	DEPTHS TO BASE OF SUPERFICIAL DEPOSITS (m)	GTM DIP	ORIG HT	YR	G.L. OR TOP	DATUM (m)	TEMP DEPTH	TEMP (°C)	TYPE OF PROBE	TIME SINCE END OF DRILL	CORR. TEMP. (°C)
59 11	PARHAM 2	SU 11159172	50d 55m 45s W 3d 42m 55s	MCR	53	71	11	G.L.	25.5	100.0	10.65	SM	24 hr.	10.67
59 11	PARHAM 4	SU 1260 1715	50d 55m 38s W 3d 41m 39s	MCR		122	10	E	101	27.5	20.1	BHT	24	-
59 11	PARHAM 7	SU 1260 1717	50d 55m 38s W 3d 41m 39s	MCR		116	10	E	886	30.9	22.7	BHT	24	48.5
59 15	PARHAM 9	SU 1260 1717	50d 55m 38s W 3d 41m 39s	MCR		217	10	E	770	28.9	22.5	BHT	24	43.5
59 15	PARHAM 10	SU 1260 1717	50d 55m 38s W 3d 41m 39s	MP	1	C	74	260	9.2	25.0	15.0	EOH		
59 15	HONEYMAD NO. 2	TV193934	50d 47m 3s N 0d 21m 3s E	MP	1	C	74	191	9.1	190 191 192	16.2 15.9 12.7	EOH EOH EOH		
59 21	CHERNU COLLIERY	SK46 7941	53d 16m 17s W 1d 11m 17s	6	23	224	161	1	376	28.6	16.6	GPA	24	-
59 22	NANTSEAKTON COLL	SK43 9777	53d 17m 52s W 1d 13m 39s	4	23	267	10	0	160	12.5	14.0	GPA	24	-
59 22	RADMAN PATCH COLL	SP26 1851	51d 25m 31s W 0d 57m 7s	3	24	116	10	0	222 323 421	16.2 16.9 19.7	11.9 13.6 16.9	GPA GPA GPA	24 24 24	12.0 13.7 17.0
59 26	BLAEN CAM COLL	SP17 7BA	51d 40m 26s W 0d 33m 8s	3	23	253	10	0	217 317 417	17.8 18.7 19.6	09.7 11.5 13.4	GPA GPA GPA	17 h 17 h 17 h	16.7 18.5 20.4
59 30	COSMT HEBERT	SP41 9F5	51d 29m 5s W 2d 31m 5s	3	24	59	11	2	329	17.5	17.2	GPA	17 h	17.2
59 35	WYNDHM COLLIERY	SP30 921	51d 37m 1s W 3d 0m 1s	3	23	499	63	5	552	23.2	24.6	GPA	27 h	25.9
59 37	LLANHARAN COLL	SP29 8AB	51d 32m 4s W 3d 24m 3s	3	23	68	11	1	191 291 391	14.9 15.6 16.6	10.8 12.5 14.5	GPA GPA GPA	18 h 18 h 18 h	17.8 19.5 21.5
59 39	PARK HE 3 COLL	SP23 997	51d 29m 4s W 3d 50m 4s	3	24	152	10	0	216 402	16.0 16.7	10.6 15.1	GPA GPA	17 h 17 h	15.6 20.7

INDEX NO	NAME OF SUBMARINE /LOCALITY	BRITISH WAY ORIG MARKING	LATITUDE/ LONGITUDE	DEPTHS TO BASE OF SUPERSTRUCTURE/ CONNING TOWER/TOP	GTH OF DEP	BRDE WR	G.2 DATA	SUB-DEPTH TOP	TEMP	TEMP	TYPE OF GRADE	TIME OF FIRST	TEMP FROM	TEMP TO	CORR TIME
00949	MAIN SD 17 W 3 51 0	UTG 98	MPL 25 40 W W 3 51 0		0	21	34	11 5	285	16.5	M	274	11.3	11.4	
00950	BRITANNIC REFWY UNTG 995		MPL 25 40 W W 3 27 0		0	24	350	9 9 10 0 10 3 10 6 10 9	283 284 284 284 284	9.9 10.0 9.9 9.8 9.7	C C C C C	274 274 274 274 274	9.9 10.0 9.9 9.8 9.7	9.9 10.0 9.9 9.8 9.7	
00951	CHIZZAM FAUN	UNI 83	MPL 31 58 W W 3 54 57		0	23	41	11 6 11 9 12 0	283 283 283	11.4 11.3 11.2	C C C	274 274 274	11.4 11.3 11.2	11.4 11.3 11.2	
00952	LADY WINDSOR'S	UTG 98	MPL 25 34 W W 3 51 0		0	21	255	10 6 10 9 11 0 11 3 11 6	284 284 284 284 284	10.7 10.6 10.5 10.4 10.3	C C C C C	274 274 274 274 274	10.7 10.6 10.5 10.4 10.3	10.7 10.6 10.5 10.4 10.3	
ST 3	SLYTER DEVICE3	7400SYT	MPL 19 41 W 3 51 0		OWN	72	55	11 2	284	46.0	C	27.8	SAT	24	40 0
ST 4	EUSTON RUN	3150TON	MPL 22 52 0 W 3 51 0	6.2 410 HOLE 1100	SVY	72	8	11 5	402	8.2	M	26.9	1.90	98	11.4
ST 5	SENGHENYDD NO.1	1195FTE	MPL 37 2 W 3 28 40		GWN	73	323	9 4	2.884	42.8	M	18.7	SAT	24	44 3
ST 7	CURRYPOOL FARM	2270SRY	MPL 0 39 0 W 0 3 18	210 150	HF	306	74	49	11.2 150	22.0 12.0	C M	7.5 14.2	1.00		
ST 10	ASHTON PARK	5600PAK	MPL 16 26 0 W 2 39 45	0.2 7 03 MOD.TL	SVY	50	18	11 4	464	23.9	M	18.8	1.00	14	- -
ST 14	LADY WINDSOR'S	6557YYY	MPL 25 38 4 W 3 51 0		MCR		774	30 5		20.4	SAT	24	- -		
ST 16	TRICORN HOLE	934 3PA	MPL 3 38 W 3 28			306	77	512	99 8	659	72.4	49 8	SAT	19	22.4 49 0
ST 20	WEST LOCATION	9496SLS	MPL 51 42 W 1 19		HF	594		75							

INDEX NUMBER	NAME OF BOREHOLE / LOCALITY	LATITUDE/ LONGITUDE	DEPTH TO BASE OF WEATHERED FORMATIONS	DTH	UNCE WN	YR	S.W. DATE	S.W. DEPTH	H.T. DATE	H.T. DEPTH	CHEMICAL ANALYSIS	TYPE	CONDITION	CASING	CONDITION
57701	NKAP NKVUNTZUN	1035 370	W51 37.00 S 0 38.35	CU		4		24	170	16.7	5/1 22.0 5/4 22.0 5/5 22.0 5/6 22.0 5/7 22.0 5/8 22.0 5/11 22.0 5/12 22.0	DI DPH DPH DPH DPH DPH DPH DPH	OK OK OK OK OK OK OK OK	-	-
57702	NKOWA COLLIERY	1035 490	W51 25.40 S 0 31.12	CU		4		24	370	16.5	8/10 24.4 8/11 24.4 8/12 24.4 9/1 24.4 9/2 24.4 9/3 24.4 9/4 24.4 9/5 24.4	DPH DPH DPH DPH DPH DPH DPH DPH	OK OK OK OK OK OK OK OK	-	-
57704	LLANBRYDDA COLL 1029 990	W51 31.5L S 0 33.0S	CU		3		23	244	16.8	7/8 23.3 7/9 23.3 7/10 23.3 7/11 23.3 7/12 23.3 8/1 23.3 8/2 23.3 8/3 23.3 8/4 23.3 8/5 23.3 8/8 23.3 8/9 23.3 8/10 23.3 8/11 23.3 8/12 23.3 9/1 23.3 9/2 23.3 9/3 23.3 9/4 23.3 9/5 23.3 9/8 23.3 9/9 23.3 9/10 23.3 9/11 23.3 9/12 23.3	DPH DPH DPH DPH DPH DPH DPH

INDEX NO.	NAME OF SCHEDULE /LOCALITY	BRITISH GRID REFERENCE	LATITUDE/ LONGITUDE	EDITING TO BOOK OF REFERENCE PUBLISHED	OGW SHEET NO.	SHIP OR AIR FIX	YR.	C.S. OR PHOTO	DATE OF FIELD WORK	TIME OF FIELD WORK	TYPE OF SURVEY	FORE SHORE	FORE SHORE TOPOG	CODE FOR TOPOG
57751	CHIEF ASSISTANT	OSK 71	HT1 04 30	00	3	24	75	11.1	158	10.6	27.7	CPR	274	11.6	27.7
			W1 3 23												
58 J	WINCHESTER NO. 1	SU4529N	HT1 51	5.47 L.S.	596	SEDGE B	3		1958	10.0	27.4	EST			
			W1 4 16												
59 J	WINCHESTER NO.2	SU4529E	HT1 2 24	4.37 L.S.	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
60 J	WINCHESTER NO.3	SU4950N	HT1 1 45	4.37 L.S.	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
61 J	WINCHESTER NO.4	SU4950E	HT1 1 24	4.37 L.S.	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
62 J	WINCHESTER NO.5	SU5251N	HT1 1 24	4.37 L.S.	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
63	STAT 6A	SU5352N	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
64	STAT 6A	SU5352E	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
65	STAT 6A	SU5352W	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
66	STAT 6A	SU5352S	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
67	STAT 6A	SU5352E	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
68	STAT 6A	SU5352W	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
69	STAT 6A	SU5352S	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
70	STAT 6A	SU5352E	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
71	STAT 6A	SU5352W	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
72	STAT 6A	SU5352S	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
73	STAT 6A	SU5352E	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
74	STAT 6A	SU5352W	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
75	STAT 6A	SU5352S	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
76	STAT 6A	SU5352E	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
77	STAT 6A	SU5352W	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
78	STAT 6A	SU5352S	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
79	STAT 6A	SU5352E	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
80	STAT 6A	SU5352W	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
81	STAT 6A	SU5352S	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
82	STAT 6A	SU5352E	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
83	STAT 6A	SU5352W	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
84	STAT 6A	SU5352S	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
85	STAT 6A	SU5352E	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
86	STAT 6A	SU5352W	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
87	STAT 6A	SU5352S	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
88	STAT 6A	SU5352E	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
89	STAT 6A	SU5352W	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
90	STAT 6A	SU5352S	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
91	STAT 6A	SU5352E	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
92	STAT 6A	SU5352W	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
93	STAT 6A	SU5352S	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
94	STAT 6A	SU5352E	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
95	STAT 6A	SU5352W	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
96	STAT 6A	SU5352S	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
97	STAT 6A	SU5352E	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
98	STAT 6A	SU5352W	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
99	STAT 6A	SU5352S	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												
100	STAT 6A	SU5352E	HT1 25 5	4.56	596	SEDGE B	3		1958	10.0	27.7	EST			
			W1 4 16												

INDEX NO.	NAME OF SURVEYOR & FACILITY	BRITISH GRID REFERENCE / REF LOPS	LATITUDE/ LONGITUDE (WGS84) FOR SURVEYOR'S PREMISES	ETH CODE	SEX	AGE	HT	LIG	SUN	BIRTH	TEMP	TEMP	TYPE	TIME	LUNG	LUNG

INDEX NO	NAME OF SURFACE /LOCALITY	BOTTOM WATER MASS	LATITUDE/ LONGITUDE	SETTING TO SOUTH OF (NEAREST PROMINENCE)	STN	SURF DEPTH	SW TEMP	N. O. 3	SURF SALIN	DEPTH OF MIN	T MIN	CORE DEPTH	CORE TEMP	TYPE OF CORE	TYPE OF MICRO	CORE LENGTH	CORE TEMP
SAMPLE																	
SAM01	CAPE ERROL	LAST ALL	LAT 61 15 LONG 16		7	NC	4.3	11.0	29.0	10.1	29.9	MAT					
SAM02	BALLASTA RISE	LAST ANT	LAT 61 15 W 14 30		7	NC	3.9	11.0	29.0	10.2	29.8	MAT					
SAM03	NORTH RIDGEWAY	LAST ANT	LAT 61 15 W 14 15		7	NC	3.9	11.4	29.1	12.0	30.4	MAT					
SAM05	SOUTH ROCKBAR	LAST ANT	LAT 61 15 W 13 45		7	NC	4.7	11.4	29.5	15.7	29.8	MAT PIS					
SAM06	COASTAL	UPPER DEW	LAT 61 17 W 13 45		7	NC	3.9	11.4	29.7	23.5	29.7	MAT PIS					
SAM08	BOTTALINCK	UPPER DEW	LAT 61 17 W 13 30		7	NC	4.7	11.5	29.6	14.1	29.9	MAT					
SAM09	LEVANT	LAST ANT	LAT 61 15 W 13 45		7	NC	3.9	11.5	29.2	17.8	30.4	MAT					
SAM10	BIRDSNEST	LAST ANT	LAT 61 15 W 13 30		7	NC	4.0	11.2	29.2	15.0	30.0	MAT					
SAM11	TRENCHMAN	UPPER DEW	LAT 61 12 W 13 30		7	NC	3.7	11.0	29.2	15.4 15.3	30.1 30.0	MAT PIS					
SAM12	WHEAL BULLER	LAST ANT	LAT 61 14 W 13 15		7	NC	4.0	11.3	29.3	14.6 15.1	29.7 29.8	MAT PIS					
SAM13	WHEAL BEETH	WEST SLAB	LAT 61 10 W 13 30		7	NC	4.0	10.9	29.4	14.4	30.0	MAT					
SAM14	WHEAL DEARMAN	EAST ANT	LAT 61 12 W 13 15		7	NC	3.9	10.9	29.1	14.4	29.7	MAT					
SAM15	WHEAL DRAINSTEAM	UPPER DEW	LAT 61 12 W 13 00		7	NC	4.1	11.0	29.2	14.6	29.9	MAT					
SAM16	NORALDON	UPPER DEW	LAT 61 10 W 13 00		7	NC	4.5	11.0	29.3	19.7	30.2	MAT					
SAM17	WHEAL FORTUNE	UPPER DEW	LAT 61 10 W 12 45		7	NC	3.8	11.0	29.3	12.8	41.6	MAT					

INDEX NO	NAME OF BOREHOLE / LOCALITY	SECTION NO/ REFERENCE	LATITUDE/ LONGITUDE	DEPTH TO BOTTOM OF FORMATIONS PENETRATED	GTM DATA	SWCE DATA	YR	G.D DATE	DEPTH OF WE	DEPTH TO/M	TYPE OF CASING	TYPE OF PROP	TYPE OF CTRL	CONN. TECH	CONN. TEST
54T10	WIDAL KERLAND	U39 171	WDU 11 1 0 W 5 22 0	7			NC	67	11.6	279	22.0			46 U	HDT
54T17	DODDLEHEN	U40D 321	WDU 4 0 0 W 4 11 0	7			NC	55	11.7	148	24.4			56 U	HDT
54T20	GREATARM	U39S 205	WDU 7 20 0 W 5 21 0	7			NC	102	11.9	376 376	19.7 24.1			32 U 24 U	HDT HDT
54T21	EAST CROFTY	U44S 425	WDU 13 35 0 W 5 10 0	7			NC	75	11.5	247	22.7			41 R	HDT
54T22	UNITED MINES	U74S 412	WDU 13 17 0 W 5 7 40 0	7			NC	76	11.5	255 255	24.7 24.7			31 U 31 R	HDT HDT
54T23	COLSOIL	U74S 612	WDU 13 37 0 W 5 8 0 0	7			NC	250	10.5	289 289 376	20.0 20.0 24.8			34 U 34 R 34 U	PRT PRT PRT
54T24	WIDAL TROPHY	U67 332	WDU 7 39 00 W 5 18 0	7			NC	139	11.2	322 322	20.0 20.0			33 U 33 R	HDT HDT
54T25	WIDAL TOR	U62S 205	WDU 7 34 00 W 5 17 00	7			NC	100	11.4	271 267 337	20.6 20.0 27.2			33 R 33 U 35 U	PRT PRT PRT
54T26	GEEVOR	37T234Y5	WDU V 14 30 W V 90 20	NF	LC	64	78	11.4	202 202 229 229 229 360 360	17.4 17.4 20.8 20.8 20.8 24.0 24.0				EDM EDM EDM EDM EDM EDM EDM	
54T28	SOUTH CROFTY	6A63W109	WDU 13 27 30 W 5 14 20	NF	LC	64	111	11.9	440 440 440 440 360	27.5 27.5 27.5 27.5 24.0				EDM EDM EDM EDM EDM	
54T29	PENDARVES RSW	44T 383	WDU 14 50 W 5 17 50	7			NC	69	10.7	11.6	231	17.0		33 L	HDT

INDEX NO	NAME OF SHIP/ARMY /LOCALITY	SECTION WAY-BILL NO	LATITUDE/ LONGITUDE	DEPTHS TO BOTTOM/ DEPTHS TO KEEL/HEIGHTS	GTM DATE	GRID DF	SUB-GRP	DEPTH TO KEEL	TEMP TYPE	TIME FROM	TIME TO	CORR. GTM
YY I	MILLEY SOAM	1777TTOYO	UDO 40 14 S W 4 28 34 C	J&S 1ST MP 752	I C	69	217 19 7	268 197 75 425 26 5 450 26 5 526 26 33.2	T	0309 0315 0324 0328		
YY I	NORRINGHOE NO 1	1888YHOO	UDO 47 5 J W 2 02 7 P	JULY, TTI STUDLY 1900	GRA	74	93 19	1078 484	2	30 L	SMT	
YY S	HIMMEIDGE NO 2	7174TTOY	WTO 04 41 J W 2 04 0	G40	GEDDA B P	64	80 11 3	483 27.6 483 27.6 483 27.6		20 0 20 0 20 0	SMT SMT SMT	
YY S	LOWSTON MORNING S	8722HOO7	WTO 08 39 J W 2 08 0	420	GEDDA B P	59	10 11 4	391 21.1 391 21.1 391 21.1		31 0 31 0 31 0	SMT SMT SMT	
YY I	ENGINE NO 4	7911TTOY	WTO 08 39 J W 2 8 00	372	GEDDA B P	59	10 11 4	391 21.1 391 21.1 391 21.1		31 0 31 0 31 0	SMT SMT SMT	34	39 4	32 6
YY S	LITCH FARM NO 1	7800HOSA	WTO 40 41 J W 2 3 20	40	GAS	72	4 11 5	1181 42.8		22 0	SMT	24	-	-
YY S	METTLEDOME NO 1	5490YHOJ	WTO 40 41 J W 2 3 20	40	BER	72	195 10 7	2195 42.8		22 0	SMT			
YY I	ANNE NO 1	7575TTOW	WTO 40 51 W 2 3 20	40	GAS	75	4 11 5	1131 42.8		27.7	SMT	1SM	40 3	25 1
YY I	CHALDON MEDICAL	7629TTOS	WTO 39 13 J W 2 10 20	574	E P	55	24 10 3	1300 24.8		30 0	SMT			
YY S	LITCH FARM 2	7695STTO	WTO 40 0 W 2 4 0	40	GAS	75	8 11 6	732 24.7 1182 27.8		29 5 29 5	SMT SMT	4M 1SM	38 7 37 1 39 0	
YY S	LITCH FARM 3	9732HOS7	WTO 40 0 W 2 4 0	J	GAS	75	7 11 5	1010 24.8 1010 24.8		22 5 22 5	SMT SMT	4M 1SM	41 4 34 0	
YY S	LITCH FARM 4	9745TTOA	WTO 40 12 W 2 4 0	J	GAS	75	5 11 5	1066 27.5		22 4	SMT	1SM	39 4 37 0	
YY S	HIMMEIDGE NO 3	8662TTOJ	WTO 40 32 SU W 2 11 33	47L.J 1940 GEDDA B P T 1300		57	46 11 4	1000 42.8 768 40.0		17 5 17 5	SMT SMT			
YY S	HIMMEIDGE NO 2	8757TTOT	UA 38 J W 2 0 3M	750	GEDDA B P	60	40 11 4	870 24.7 762 40.0		21 5 21 5	SMT SMT			
YY S	LOWSTON MORNING S	4231HOSM	WTO 08 39 J W 2 08 0	397	E P	59	52 11 2	397 25.0		28 0	SMT			

DIRECT NAME OF SHIPHOLDE /LOCALITY	BRITISH UNITED/ OTHER NATIONALITIES	TYPE OF VESSEL/ REGISTERED TONNAGE/ DIMENSIONS	DTH DAT	SPCE OF	YR G.D	SUB- DEPTH	TEMP TEMP TEMP TYPE CHARA CLASS CHARA TYPE CHANGE OF CHANGE OF FROM FROM FROM TYPE CHANGE OF CHANGE OF TO TO TO CHANGE
1 GB 1 RADCLIFFE NO 1	165551AH	LTR/ST/ST/ 1/ST/ST/ 1/ST/ST/ 1

INDEX NO.	NAME OF BOROUGH/ /LOCALITY	BRITISH GRID REFERENCE	LATITUDE/ LONGITUDE	DEPTH TO BASE OF SUPERFICIAL DEPOSITS	STE SOURCE	HR DATE	CL DP	SUB- DEPTH	GRDN TEMP	TEMP. DATE	TYPE OF TEMP.	PAGE 18 CONTINUED FROM PREVIOUS PAGE			
74	WATERLOW WOOD N 1	1696TN02	HPD TQ 34 N 51 M 0 11.42		TQ3	70	11	40	2060	53	D	248	45.0	11.0	7
75	* HADHURST	1330TB88	HPD TQ 34 N 51 M 0 14. *		GEOGR SUR	73	88	10.0	1327	45.1	ST D	DAT	74	71.1	10.0
									1737	70.4	SH D	DAT	74	--	--
									1847	71.1	ST D	DAT	74		
									1249	72.2	ST D	DAT	75		
76	(a) KIDDY NO. 1	9149N3TH	HPD 49 26 N 51 M 0 14.42		OAK	72	46	10.2	1702	49.6		20.2	DAT	194	43.1	21.9
76	(b) TETHEY LOCK	3137DW98	HPD 29 14 N 0 M 0 14.4	29.5 (92 FEET) ABOVE SEA LEVEL	TQ3	63	3	10.0	1298	72.8		23.3	LOG		
									1249	72.2		41.6	DAT		
77	(a) WIMBLETREE NO 1	2791Z938	HPD 41 58 W 0 41		OAK	72	7	10.5	2092	58.9		24.5	DAT	74	74.9	22.6
78	(a) FORDEN NO 1	9795N3TH	HPD TQ 47 N 51 M 0 14.42	7.5 (+ 100 FEET) ABOVE SEA LEVEL	B P	56	135	7.5	1737	54.6		20.7	DAT		
79	(a) GREAT HAYSTOLD	1790N3TH	HPD TQ 57 N 51 M 0 14.42	80.0 (+ 262 FEET) ABOVE SEA LEVEL	B P	71	13	10.8	1422	51.1		25.1	DAT	199	49.1	21.9
									1737	54.6		20.7	DAT	199	49.1	21.9
77	* WIMBERWALL NO. 1	5791N3TH	HPD 42 02 W 0 41	30.48 (+ 100 FEET) ABOVE SEA LEVEL	TQ3	71	2	10.5	562	39.0		40.7	DAT	44	40.3	53.0
79	* SPALDING NO. 1	2491N3TH	HPD 42 53 W 0 39	15.20 (+ 50 FEET) ABOVE SEA LEVEL	TQ3	71	2	10.0	500	24.7		32.4	DAT	124	28.7	35.6
79	* WITHERCH NO. 1	4016N3TH	HPD TQ 37 N 51 M 0 14.42	30.48 (+ 100 FEET) ABOVE SEA LEVEL	TQ3	71	1	10.5	324	23.9		17.1	DAT			
79	* WITTERING NO 1	6491N3TH	HPD TQ 04 N 51 M 0 14.42	24.9 (+ 82 FEET) ABOVE SEA LEVEL	TQ3	66	42	10.1	376	21.1		37.1	DAT			
									1249	72.2		41.6	DAT			
77	(a) WORTH NO 1	3992TN3	HPD TQ 32 N 51 M 0 10.3	3.6 (+ 12 FEET) ABOVE SEA LEVEL	TQ3	GEOGR SUR	61	10.0	1737	54.6		20.7	DAT			
									317	24.0		62.7	DAT			
77	(a) YOUTH CREWE 1	8574N3HD	HPD TQ 32 N 51 M 0 48.74	91.7 (+ 300 FEET)	B P	69	10	10.9	772	32.2		28.8	DAT	34	47.2	47.8

INDEX NO	NAME OF SUBMARINE / LOCALITY	BRITISH LATITUDE / WAT DEP / REFRIGN	LATITUDE / LONGITUDE	DEPTHS TO PENETRATIONS / PENETRATIONS	DTM	SHIPS YR	CO ID	DWT	GROSS / NET TONS	TYPE OF SHIP / TYPE OF ENGINE	TYPE OF TRADE	CONS TRUC	CONN CONN
					DATA								

INDEX NO	NAME OF SOURCE /LOCALITY	BRITISH GRID REFERENCE	LATITUDE/ LONGITUDE	DEPTHS TO BASE OF SUPERFICIAL DEPOSITS (metres)	GTH (M)	SRCE (M)	YR S.B.	SUPP. DATA	DEPTH (M)	TEMP (C)	TEMP TYPE	TIME OF DAY	TIME FROM	TIME TO	CORR TEMP
71, 2	HARROWS	SK437809	NFG 25 50 E 4 W 0 45	0.6 177 50 217		TOP	65		21	10.8	MIN	21/10	8	12	10.8
71, 3	UPWOOD	SK980804	NFG 25 50 E 4 W 0 45	0.6 177 1970.01 233		TOP	100		65	4.10	T	21/1	21.1	50.4	BHF
71, 4	HUNTINGDON	TL233715	NFG 25 50 E 4 W 0 45	0.6 177 1970.01 233	172	MF			14	10.4	127.1	21.1	20.2	20.8	
71, 11	CAMBRIDGE	451405989	NFG 12 52 E 8 W 0 54	52.4 170 C 2246.8 262			P		52	90	10.2	52	11.8		BHF
													15	14.3	
													20	16.8	
													25	19.3	
													30	23.7	
71, 13	ROWELL NO 1	285 392	NFG 2 4 W 0 7	35			TOP	45	59	16.7	164	24.8	74.8		BHT
71, 14	LANGWORTH 4	749 036	NFG 25 50 E 4 W 0 45	0.6 177			TOP	45	7	10.6	127.1	15.6	23.1		BHT
71, 15	LITTLE OUSEFLL	452 360	NFG 2 20 E 4 W 0 54	0.6 170			TOP	45	110	16.2	295	24.4	95.9		BHT
79, 4	BILLINGHAM NO 1	416299	NFG 12 52 E 8 W 0 54	52.4 170			TOP	45	78	16.7	164	24.8	74.8		BHT
72, 2	WELLINGHAM	367457	IF 150 E 4 W 0 6	527.4 172			100	87	186	40.9	4588	87.8	33.3	100	BH
72, 3	FETCHAM MILL	4759150	NFG 17 40 E 3 W 0 45	0.6 T 34	MF	1	C		31	14.3	121	12.0			BHT
													24	20.5	
72, 13	TATTERSLL NO 1	424250	NFG 17 57 E 3 W 0 45	0.6 1323			830	66	194	50.0	2455	71.7	27.9		BHT
72, 14	BLETCHNSLEY 1	342257	NFG 12 42 E 4 W 0 45	0.6 1855			1800	45	49	50.0	1152	60.0	34.7		BHT
											1152	60.0	34.7		BHT
72, 15	BLETCHNSLEY 2	3550374	NFG 12 52 E 8 W 0 52	319			650	66	66	30.6	1123	55.7	36.4		BHT
72, 16	BLETCHNSLEY 3	3275474	NFG 12 18 E 4 W 0 45	409.2 1752			650	66	68	30.5	1157	56.6	34.4		BHT
72, 17	BLETCHNSLEY 4	3493638	NFG 12 5 E 4 W 0 45	3.4L 370			650	66	88	30.5	1148	56.4	25.0		BHT
											1148	56.4	25.0		BHT

INDEX NO	NAME OF SOMEVALLE /LOCALITY	BRITISH NOT GRID REFERENCE	LATITUDE/ LONGITUDE POINT(DEG MIN SEC) FORMATTING DEGREES/MINS	DEFTHS TO SEA/LAND	UTM ZONE	UNITS OF DATA	W E OR N S	DATUM HEIGHT	DATUM DEPTH	TYPE OF FEATURE	TYPE CODE	TIME FIXED	TIME CODE	COMM TYPE CODE
TO 20	CONDEN-2	4466279E	MPL 4 50 N 0 27 W	225-2	30W	M	W	1193	1193	1040	42.0	28.5	BMT	34
TO 21	WESTMAN HILL	4097353E	600 49 28 N 1 30 W	180.2 1050 1200 1500.5 1227	30W	M	W	72	2	111.0	1271	47.8	28.5	BMT
TO 22	COLLIEHEAR FARM	3480482E	MPL 11 1 N 2 45 W	JU 371.4 1257	30W	M	W	60	10	0	1422	60.8	30.8	BMT
TO 23	BELSAY HO 1	2801242E	MPL 6 37 N 1 51 W	211.0 1172 1172 1172 1172	30W	M	W	63	69	10.6	1266	60.8	25.1	BMT
TO 24	CANVEY ISLAND	5275975E	MPL 31 7 E 0 37 E	CL 375.0 1345 CL 375.0 1345	30W	M	W	52	3	11.5	404	17.0	13.7	LOG
TO 25	CLIFFE NO 1	7265762E	MPL 27 32 E 0 26 E	MEL 86 532 GEOCH B P	30W	M	W	59	3	11.0	251	22.8	44.9	DST
TO 26	CLIFFE NO 5	7565769E	MPL 26 40 E 0 27 E	34.8	30W	M	W	59	2	11.0	207	27.2	54.4	DST
TO 40	RICHMOND VISTRY	521 75	MPL 27 35 E 0 16 27	3	30W	M	W	6	NC	5	11.0	456	24.2	32.4
TO 41	HORNSEY COLLIERY	42 05	MPL 59 59 E 0 39 W	109.J 257 HF	30W	M	W	39	30	10.8	234	14.3	23.2	69M
TO 42	KENTISH TOWN	2901 062	MPL 59 58 W 0 9 W	0	30W	M	W	66	66	11.1	348	19.4	26.0	BMT