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WYOMING

basic data for thermal springs and wells
as recorded in GEOTHERM

By

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Open-File Report 83-439

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature. Any use of trade names is for descriptive purposes only and does not imply endorsement by the USGS.

Menlo Park, California

May, 1983

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INTRODUCTION

GEO THERM, a computerized information system now off-line, was used to maintain data on the geology, geochemistry and hydrology of geothermal sites primarily within the United States. The system was proposed at the First Geothermal Implementation Conference in New Zealand in 1974 (Swanson, 1977) and was active until 1983. The primary mission was to provide a broad informational framework for the Geothermal Research Program (Duffield and Guffanti, 1981). GEO THERM was used to support national geothermal assessments--in 1978 (Muffler, 1979) and 1982 (Reed, 1983). It was however a public system and provided data to both public and private sectors. A detailed discussion on databases in GEO THERM and a general scheme of how the information system operated can be found in Bliss and Rapport (1983).

This report on Wyoming is one of a series intended to preserve the data collected for GEO THERM and make the data available to the public. States with significant geochemical data for geothermal fluids will be covered in individual reports such as this. A report will also be issued to cover miscellaneous data collected for sites in the central and eastern United States. The data found in this series is also available as a data file on the internationally-available General Electric Mark III service, a timeshare network. Those interested in accessing that system should contact the Energy Resource Center, University of Oklahoma, Norman, Oklahoma 73070. It is anticipated that a portion of the data will also be available on magnetic tape from the National Technical Information Service, U. S. Department of Commerce, Springfield, VA 22161. It will not be available until after the completion of the open-file series.

GEO THERM INDEXES

Three computer-generated indexes are found in appendices A, B, and C of this report. The indexes give one line summaries of each GEO THERM record. Each index is sorted by different variables to assist the user in locating geothermal records describing specific sites.

Appendix A (p. 188-194) is sorted by the county name and the name of the source. Also given are latitude, longitude (both in decimal minutes), township, range, section, GEO THERM record identifier, and temperature (°C). In conducting a search of Appendix A, site names are quite useful for locating springs or wells for which a specific name is commonly used, but sites which do not have specific names are more difficult to locate. It is suggested that site titles which begin with words such as warm, hot, unnamed, pumped, well, or spring be checked. Descriptive text found as part of the site name and the site coordinates should be used to assist in determining location.

Appendix B (p. 195-201) is sorted by county, township, range, and section. Also given are name of source, GEOTHERM record identifier, and temperature (°C). Records missing items used for sorting will be listed first.

Appendix C (p. 202-209) is first sorted into one-degree blocks by latitude, and longitude, and then by name of source. Adjacent one-degree blocks which are published as a 1:250,000 map are combined under the appropriate map name. Also given are GEOTHERM record identifier, and temperature (°C). Records missing items used for sorting will be listed first. Numbers with a blank in the same position as zero will be given first.

GEOTHERM SAMPLE FILE

GEOTHERM sample file contains 356 records for Wyoming (Table 1). Records may be present which are duplicates. A record may contain data on location, sample description, analysis type (water, condensate, or gas), collection condition, flow rates, and the chemical and physical properties of the fluid. Stable and radioactive isotopic data are occasionally available. Some records may contain only location and temperature. When sufficient chemical data was available, the charge balance (percentage of difference in anion- and cation-milliequivalents) was computed and added to the record. Many of the numeric fields in the sample file can be directly qualified. The qualifier code precedes the number when appropriate. The codes and their meaning are given in Table 1.

Each thermal spring or well is usually represented by several records. This may document temporal changes in the geothermal fluids. Judgement on what constituted acceptable data was extremely complicated and the primary attempt was to insure that each GEOTHERM record faithfully reproduced the published data. On occasion, glaring inconsistencies or data clearly of poor quality were excluded. Regrettably, no database can be constructed or supported without the introduction of errors. The user, therefore, is advised to check with the published literature whenever possible. Users should carefully and critically evaluate the records they use.

This compilation should contain all of the chemical data for geothermal fluids in Wyoming available as of December, 1981. However, no claim is made for completeness, and published sources have probably been missed. A substantial number of observations for geothermal features in Yellowstone National Park have been omitted. All of the records in this list contains information which was published at the time of data entry. A critically evaluated and corrected list of over 2000 records for the United States was extracted from the sample file and issued as a reference document for the national low-temperature geothermal resource assessment (Reed and others, 1983). This, along with a list of geothermal springs by Berry, and others (1980) may be helpful to some users.

GEO THERM BIBLIOGRAPHY

A bibliography is given in Appendix D (p. 210-211). The abbreviated form of the reference (called code) is identified as the record source in the full record list and is used to sort the entries in this appendix. Codes with a leading "*" identify records based on information which was unpublished at the time the record was prepared.

ACKNOWLEDGMENTS

Contributions and support to GEOTHERM have been made by many in both federal and state agencies. This includes the U.S. Department of Energy (and associated contractors), and U.S. National Oceanic and Atmospheric Administration. Data-entry forms for most sites in Wyoming were prepared by the staff of the University of Wyoming or the U.S. Geological Survey.

REFERENCES CITED

- Berry, G. W., Grim, P. J., and Ikelman, J. A., 1980, Thermal springs list for the United States: National Oceanic and Atmospheric Administration, Key to Geophysical Records Document No. 12, 59 p.
- Bliss, J. D., and Rapport, Amy, 1983, GEOTHERM: the U.S. Geological Survey geothermal information system: Computers & Geosciences, v. 9, no. 1, p. 35-39.
- Duffield, W. A., and Guffanti, Marianne, 1981, The geothermal research program of the U.S. Geological Survey: U.S. Geological Survey Open-File Report 81-564, 108 p.
- Muffler, L. J. P., ed., 1979, Assessment of geothermal resources of the United States--1978: U.S. Geological Survey Circular 790, 163 p.
- Reed, M. J., ed., 1983, Assessment of low-temperature geothermal resources of the United States--1982: U.S. Geological Survey Circular 892.
- Reed, M. J., Mariner, R. H., Brook, C. A., and Sorey, M. L., 1983, Selected data for low-temperature (less than 90°C) geothermal systems in the United States; reference data for U.S. Geological Survey Circular 892: U.S. Geological Survey Open-File Report 83-250, 129 p.
- Swanson, J. R., 1977, GEOTHERM data file: Geothermal Resources Council Transactions, v. 1, p. 285.

TABLE 1

State of Wyoming: computer-generated listing of records describing geothermal-fluid samples. [A few records may be for cold springs or wells--this was to provide ground-water references for some studies.]

ORGANIZATION: Records are sorted by county and then by the name of the spring or well. Order is the same in Appendix A.

UTM: The UTM Easting label was omitted. The UTM Easting figure will be given directly below the Northing label.

QUALIFICATION CODES: All numeric attributes may be qualified. The codes and their meaning:

L = less than

G = greater than

E = estimated

T = trace (no numeric value reported)

N = not detected (not followed by number)

Q = qualified (other data in qualification field)

R = midpoint of range (actual range in qualification field)

REFERENCE: An expanded citation of the reference is found in Appendix D. The abbreviated form used in this table is called "CODE" in the appendix. Unpublished sources are preceded with "*".

RECORD 00001

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0075000

NAME OF SAMPLE SOURCE... LITTLE SHEEP MOUNTAIN SPRING

LOCATION
 COUNTRY..... UNITED STATES LOWMISHIP-RANGE
 STATE..... WYOMING 55N 094W 17 NE OF NE
 COUNTY..... BIG HORN
 GEOLOGIC PROVINCE... 41

COORDINATES

LAT/LONG... 44-44.90 N 108-11.35 W
 UTM ZONE... +12
 NORTING... 4958621.
 722512.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1977/08/17
 TEMPERATURE (C)..... 20.
 DISCHARGE..... 6414. L/MIN

WATER ANALYSIS

P..... 8.9
 SPECIFIC CONDUCTANCE..... 471.
 TOTAL DISSOLVED SOLIDS... 296.
 CHARGE BALANCE (% DIFF)... 5.7

ANALYSIS IN PPM

AG.....		CO3..... N					
AL.....		CR.....	MG...	25.			
BA.....	0.02	FE.....	0.5	NA...	4.7	SI02..	82.
BE.....		FE(TOT)..		NB...		S04...	81.
CA.....	50.	MCO3....	210.	NO3...	0.7		
CL.....	0.5						
CO.....		K.....	1.4				

ISOTOPES (0/00)

OTHER ANALYTICAL DATA... SULFIDE = 0.001 PPM

REFERENCE AND CITATION

COMPILED BY..... HEASLER, H. P.
 COMPILED AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00002

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0075001

NAME OF SAMPLE SOURCE... SHEEP MOUNTAIN SPRINGS

LOCATION
 COUNTRY..... UNITED STATES LOWMISHIP-RANGE
 STATE..... WYOMING 54N 094W 35 NW OF SE
 COUNTY..... BIG HORN
 GEOLOGIC PROVINCE... 41

COORDINATES

LAT/LONG... 44-36.45 N 108-08.13 W
 UTM ZONE... +12
 NORTING... 4943125.
 727311.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/08/16
 TEMPERATURE (C)..... 21.
 DISCHARGE..... 1703. L/MIN

OTHER SAMPLE INFORMATION.. TWO OTHER SMALL SPRINGS AT SAME LOCATION.

WATER ANALYSIS

P..... 8.1
 SPECIFIC CONDUCTANCE..... 499.
 TOTAL DISSOLVED SOLIDS... 270.
 CHARGE BALANCE (% DIFF)... 3.0

ANALYSIS IN PPM

AG.....		CO3..... N	LI....	S....	L 0.001
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ISOTOPES (0/00)

AL.....		CR.....		MG....	22.		
H.....	0.93	F.....	0.8	NA....	5.3	S102..	19.
NE.....		FE(TOT)..		NB....		S04..	42.
CA.....	51.	HCO3.....	230.	NO3... N			
CL.....	3.7						
CO.....		K.....	1.4				

OTHER ANALYTICAL DATA... SULFIDE = L 0.001 PPM

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILED AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00003

GEO-THERM SAMPLE TITLE

GEOTHERM FILE ID: 0075002

NAME OF SAMPLE SOURCE... SARATOGA HOT SPRINGS, MOBO POOL

LOCATION... TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 17N 084W 13 NW OF NW
 STATE..... WYOMING
 COUNTY..... CARRON
 GEOLOGIC PROVINCE.. 41
 MAP REFERENCE..... SARATOGA 1124000

LAT/LONG... 41-27.00 N 106-48.40 W
 UTM ZONE... +13
 NORTHING... 4590076.
 349087.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/07/20
 TEMPERATURE (C)..... W 48.0
 DISCHARGE..... W 454. L/MIN

OTHER SAMPLE INFORMATION.. 5 OTHER HOT SPRINGS AT SAME LOCALE.

WATER ANALYSIS

PH..... 8.9
 SPECIFIC CONDUCTANCE..... 12900.
 TOTAL DISSOLVED SOLIDS... 1920.
 CHARGE IMBALANCE (% DIFF)... 7.9

ANALYSIS IN PPM

AL.....		CO3.....	24.	LI....		S....	0.075
H.....	1.7	CR.....		MG....	11.		
NE.....		F.....	6.1	NA....	450.	S102..	63.
CA.....	199.	FE(TOT)..		NB....		S04..	570.
CL.....	540.	HCO3.....	130.	NO3... N			
CO.....							
		K.....	23.				

ISOTOPES (O/001)

OTHER ANALYTICAL DATA... SULFIDE = 0.075 PPM

QUALIFICATION FIELD..... OTHER SPRINGS HAVE TEMPERATURES OF 43, 48, 48, 54, AND 30 DEG C. ALL FLOWS LESS THAN 19 L/MIN.

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILED AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00004

GEO-THERM SAMPLE TITLE

GEOTHERM FILE ID: 0075006

NAME OF SAMPLE SOURCE... SARATOGA HOT SPRINGS, MOBO POOL

LOCATION... TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 17N 084W 13 NW OF NW
 STATE..... WYOMING
 COUNTY..... CARRON

LAT/LONG... 41-27.00 N 106-48.40 W
 UTM ZONE... +13
 NORTHING... 4590076.

349087.

GEOLOGIC PROVINCE..
 MAP REFERENCE..... SARATOGA 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1967/00/00
 TEMPERATURE (C)..... 0 48.
 OTHER SAMPLE INFORMATION.. TEMPERATURE FROM 1/20/76 ANALYSIS.

WATER ANALYSIS

TOTAL DISSOLVED SOLIDS... 1442.

CHARGE BALANCE (% DIFF)... 9.1

ANALYSIS IN PPM

AG....	CO3.....	74.			
AL....	CR.....		MG...	8.0	
CA....	F.....		NA...	513.	SI02.. 145.
CL....	FE(TOT)..		NI...		S04.. 443.
CO....	K.....	22.			

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00005

GEO THERM FILE TITLE

GEO THERM FILE ID: 0075004

NAME OF SAMPLE SOURCE... SARATOGA HOT SPRINGS, HOBO POOL
 LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 17N 08W 13 NW OF NW

LAT/LONG... 41-27.00 N 106-48.40 W

STATE..... WYOMING

UTM ZONE... +13

CITY..... CARBON

NORTHING... 4590076.

GEOLOGIC PROVINCE..

349087.

MAP REFERENCE..... SARATOGA 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1967/09/16

TEMPERATURE (C)..... 0 48.

OTHER SAMPLE INFORMATION.. TEMPERATURE FROM 1/20/76 ANALYSIS.

WATER ANALYSIS

P..... 7.3

TOTAL DISSOLVED SOLIDS... 1630.

CHARGE BALANCE (% DIFF)... 1.5

ANALYSIS IN PPM

AG....	CO3.....	N			
AL....	CR.....		MG...	9.	
CA....	F.....	6.5	NA...	453.	SI02.. 62.
CL....	FE(TOT)..		NI...		S04.. 508.
CO....	HC03...	77.	NO3...	6.5	
	K.....	29.			

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00006

GEO THERM FILE TITLE

GEO THERM FILE ID: 0075003

NAME OF SAMPLE SOURCE... SARATOGA HOT SPRINGS, HUBO POOL
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... WYOMING 17N 084W 13 NW OF NW
 COUNTY..... CARRON
 GEOLOGIC PROVINCE...
 M.P. REFERENCE..... SARATOGA 1124000

COORDINATES
 LAT/LONG... 41-27.00 N 106-48.40 W
 UTM ZONE... +13
 NORTHING... 4590076.
 349087.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1976/08/06
 TEMPERATURE (C)..... 49.

WATER ANALYSIS

ANALYSIS IN PPM

AN..... L 0.5
 AL..... CR..... L 0.1
 AS..... 0.05 CS..... MN... L 0.05
 AU..... CU..... 0.01 MO... SE... L 0.001
 BA..... L 0.5
 BE..... FE(TOT)... 0.05
 BR..... GE..... NI... L 0.01
 CA..... HG..... L 0.001 PB... L 0.1
 CO..... L 0.1
 CU..... K..... ZN... L 0.02

ISOTOPIES (0/00)

OTHER ANALYTICAL DATA... OTHER DATA (PPM): CO = L .01; CR = L .11 SE = L .0011; AG = L .51 NI = L .01

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND MINCKLEY, 1978

RECORD 00007

GEOOTHERM FILE

GEOOTHERM FILE 101 0075005

NAME OF SAMPLE SOURCE... SARATOGA HOT SPRINGS, HUBO POOL
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... WYOMING 17N 084W 13 NW OF NW
 COUNTY..... CARRON
 GEOLOGIC PROVINCE...
 M.P. REFERENCE..... SARATOGA 1124000

COORDINATES
 LAT/LONG... 41-27.00 N 106-48.40 W
 UTM ZONE... +13
 NORTHING... 4590076.
 349087.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1976/08/06
 TEMPERATURE (C)..... 49.

WATER ANALYSIS

TOTAL DISSOLVED SOLIDS... 1702.

CHARGE BALANCE (± DIFF)... 14.2

ANALYSIS IN PPM

AN..... CO3..... 20.
 AL..... CR..... NO... 6.3
 H..... F..... NA... 321. SI02... 64.
 BE..... FE(TOT)... NB... SO4... 504. 470.
 CA..... 123.
 CL..... 54.
 CO..... K..... 60.

ISOTOPIES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND MINCKLEY, 1978

RECORD 00008

GEOTHERM FILE ID: 0075007

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... DOUGLAS WARM SPRING
 LOCATION
 COUNTRY..... UNITED STATES 104551E-RANGE
 STATE..... WYOMING J1N 071W 08 SE OF SW
 COUNTY..... CONVERSE
 GEOLOGIC PROVINCE.. 41
 MAP REFERENCE..... CHALK BUTTES 1124000

COORDINATES

LAT/LONG... 42-39.88 N 105-23.62 W
 UTM ZONE... +13
 NORTING... 4723438.
 467738.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/07/29
 TEMPERATURE (C)..... 70.0
 DISCHARGE..... 3328. L/MIN

WATER ANALYSIS

PH..... 7.7
 SPECIFIC CONDUCTANCE..... 940.
 TOTAL DISSOLVED SOLIDS... 642.
 CHARGE BALANCE (% DIFF)... 3.5

ANALYSIS IN PPM

AG....		CO3.....	N					
AL....		CR.....		MG...	25.			
B....	0.06	F.....	1.2	NA...	72.	SI02.	27.	
CL....	59.	FE(TOT).		NB...		SO4...	240.	
CO....		HC03....	200.	NO3...	0.5			
		N.....	7.0					

ISOLOPES 10/2001

OTHER ANALYTICAL DATA... SULFIDE = L 0.001 PPM

REFERENCE AND IDENTIFICATION

COMPILED BY..... REASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00009

GEOTHERM FILE ID: 0075008

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... CONANT CREEK SPRINGS
 LOCATION
 COUNTRY..... UNITED STATES 104551E-RANGE
 STATE..... WYOMING J3N 094W 26 SE OF SE
 COUNTY..... FREMONT
 GEOLOGIC PROVINCE.. 41
 MAP REFERENCE..... BLUE GULCH 1124000

COORDINATES

LAT/LONG... 42-48.02 N 108-03.03 W
 UTM ZONE... +12
 NORTING... 4742648.
 741201.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/10/08
 TEMPERATURE (C)..... 15.0
 DISCHARGE..... 1136. L/MIN

WATER ANALYSIS

PH..... 7.6
 SPECIFIC CONDUCTANCE..... 1430.
 TOTAL DISSOLVED SOLIDS... 1100.
 CHARGE BALANCE (% DIFF)... 0.7

ANALYSIS IN PPM

AG....		CO3.....	N					
AL....		CR.....		MG...	59.			

ISOLOPES 10/2001

H..... 0.14 F..... 2.8 NA... 89. S102. 15.
 HF.... FE(TOT). NU... S04.. 570.
 CA.... 100. HCO3.... 210. NO3.. N
 CL.... 63.
 CO.... K..... 16.

OTHER ANALYTICAL DATA... SULFIDE = 2.2 PPM

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00010

GEOCHEMICAL SAMPLE FILE

GEOCHEM FILE ID: 0075009

NAME OF SAMPLE SOURCE... FORT WASHAKIE HOT SPRINGS

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 015 001W 02 NE OF NE

LAT/LONG... 43-00.48 N 108-50.08 W

STATE..... WYOMING

UTM ZONE... +12

COUNTY..... FREMONT

NORTHING... 4763763.

GEOLOGIC PROVINCE... 41

Easting... 676478.

MAP REFERENCE..... ETHEE 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/09/20

TEMPERATURE (C)..... 44.0

DISCHARGE..... 568. L/MIN

WATER ANALYSIS

PH..... 7.5

SPECIFIC CONDUCTANCE..... 1090.

TOTAL DISSOLVED SOLIDS... 032.

CHARGE BALANCE (% DIFF)... 3.4

ANALYSIS IN PPM

AG.... CO3.... N

AL.... CR..... MG... 34.

AS.... L 0.05 CS..... MN... L 0.05

AU.... CU..... L 0.01

B.... F..... 3.8 NA... 41. S102. 32.

BA.... L 0.5

BE.... FE(TOT). N NB... S04.. 320.

CA.... 100. HCO3.... 260. NO3.. N

CA+MG... HG..... L 0.001 PB... L 0.1

CL.... 42.

CO.... K..... 13.

ZN... L 0.02

OTHER ANALYTICAL DATA... OTHER DATA (PPM): CD = L .01; CR = L .1; SE = L .001; AG = L .5; NI = L .1; SULFIDE = .5

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00011

GEOCHEMICAL SAMPLE FILE

GEOCHEM FILE ID: 0075010

NAME OF SAMPLE SOURCE... FORT WASHAKIE HOT SPRINGS

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 015 001W 02 NE OF NE

LAT/LONG... 43-00.48 N 108-50.08 W

STATE..... WYOMING

UTM ZONE... +12

COUNTY..... FREMONT

NORTHING... 4763763.

676478.

GEOLOGIC PROVINCE..
 MAP REFERENCE..... ETHETE 112400C
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1949/05/18
 TEMPERATURE (C)..... 46.5

WATER ANALYSIS

PH..... 7.3
 SPECIFIC CONDUCTANCE..... 1180.
 TOTAL DISSOLVED SOLIDS... 801.

ANALYSIS IN PPM

AL.....	CR.....	MG...	41.		
H.....	F.....	NA...	49.	SI02.	34.
HF.....	FE(TOT).	NB...		S04..	362.
CA..... 162.	HCO3.....	NO3..	0.1		
CL..... 91.					

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00012

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0075011

NAME OF SAMPLE SOURCE... FORT WASHAKIE HOT SPRINGS
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... WYOMING 01S 001W 02 NE OF NE
 COUNTY..... FREMONT
 GEOLOGIC PROVINCE..

COORDINATES

LAT/LONG... 43-00.48 N 108-50.08 W
 UTM ZONE... +12
 NORTHING... 4763763.
 676478.

MAP REFERENCE..... ETHETE 112400C
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1926/00/00
 TEMPERATURE (C)..... 44.5

WATER ANALYSIS

TOTAL DISSOLVED SOLIDS... 1006.
 CHARGE IMBALANCE (% DIFF)... 1.3

ANALYSIS IN PPM

AL.....	CR.....	MG...	36.		
H.....	F.....	NA...	43.	SI02.	46.
HF.....	FE(TOT).	NB...		S04..	363.
CA..... 160.	HCO3.....	NO3..	10.		
CL..... 43.					
CO.....	K.....		17.		

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00013

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0075012

NAME OF SAMPLE SOURCE... JAKEYS FORK SPRING
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... WYOMING 41N 106W 29 SE OF NW
 COUNTY..... FREMONT

COORDINATES

LAT/LONG... 43-29.38 N 109-36.48 W
 UTM ZONE... +12
 NORTHING... 4815919.

612558.

GEOLOGIC PROVINCE.. 41
MAP REFERENCE..... TORREY LAKE 112400

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1977/05/26
TEMPERATURE (C)..... 20.0
DISCHARGE..... 15. L/MIN

WATER ANALYSIS

PH..... 7.2
SPECIFIC CONDUCTANCE..... 1040.
TOTAL DISSOLVED SOLIDS... 044.
CHARGE BALANCE (% DIFF)... 2.4
ANALYSIS IN PPM

AG.....		CO3.....	4			
AL.....		CR.....		MG...	40.	
H.....	0.11	F.....	1.6	NA...	19.	SI02. 15.
HE.....		FE(TOT)...		NH...		S04.. 92.
CA.....	100.	HCO3.....	540.	NO3..	N	
CL.....	26.					
CO.....		N.....	6.1			

ISOTOPES (0/001)

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
COMPILED AFFILIATION... UNIVERSITY OF WYOMING
REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00014

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0075014

NAME OF SAMPLE SOURCE... LITTLE WARM SPRING
LOCATION
COUNTRY..... UNITED STATES
STATE..... WYOMING
CITY..... FREMONT
GEOLOGIC PROVINCE..
MAP REFERENCE..... DUBOIS 112400

TOWNSHIP-RANGE

41N 107W 14 NW OF NW

COORDINATES

LAT/LONG... 43-31.22 N 109-40.00 W
UTM ZONE... +12
NORTHING... 4819247.
EASTING... 607760.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1977/05/26
TEMPERATURE (C)..... 25.

WATER ANALYSIS

ANALYSIS

AG.....	L 0.05	CR.....	L 0.01		
AL.....		CS.....		MN...	L 0.05
AS.....	0.01	CU.....	L 0.01	MU...	SE... L 0.001
AI.....					
HA.....	L 0.05	FE(TOT)...	N		
HE.....		GE.....		NI...	L 0.1
HR.....		HG.....	0.001	PB...	L 0.01
CA+MG...					
CO.....	L 0.001				
CL.....		K.....		ZN...	0.07

ISOTOPES (0/001)

OTHER ANALYTICAL DATA... OTHER DATA (PPM): CD = L .001; CR = L .01; SE = L .001; AG = L .05; NI = L .1

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
COMPILED AFFILIATION... UNIVERSITY OF WYOMING
REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00015

GEOHERM SAMPLE FILE

GEOHERM FILE 101 0075013

NAME OF SAMPLE SOURCE... LITTLE WARM SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... FREMONT
 GEOLOGIC PROVINCE.. 41
 MAP REFERENCE..... DUMUIS 1:24000

LAT/LONG... 43-31.22 N 109-40.00 W
 UTM ZONE... +12
 NORTING... 4819247.
 607760.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/09/20
 TEMPERATURE (C)..... 25.0
 DISCHARGE..... 2120. L/MIN

WATER ANALYSIS

PH..... 7.4
 SPECIFIC CONDUCTANCE..... 989.
 TOTAL DISSOLVED SOLIDS... 634.
 CHARGE BALANCE (% DIFF)... 3.0

ANALYSIS IN PPM

AG....		CO3..... N					
AL....		CR.....		MG... 34.			
NI....	0.06	F.....	1.0	NA... 22.	SI02.	21.	
HE....		FE(TOT).		ND... 83.	S04..		
CA....	140.	HCO3....	530.	NO3.. 0.4			
CL....	27.						
CO....		K.....	6.1				

ISOTOPES (0/00)

OTHER ANALYTICAL DATA... SULFIDE = L 0.001 PPM

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... HNECKENRIEGER AND HINCKLEY, 1978

RECORD 00016

GEOHERM SAMPLE FILE

GEOHERM FILE 101 0075017

NAME OF SAMPLE SOURCE... SWEETWATER STATION SPRING NO. 1

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... FREMONT
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... HAPPY SPRING 1:24000

LAT/LONG... 42-29.53 N 108-10.25 W
 UTM ZONE... +12
 NORTING... 4708088.
 732500.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/10/07
 TEMPERATURE (C)..... 30.0
 DISCHARGE..... 189. L/MIN

WATER ANALYSIS

PH..... 7.8
 SPECIFIC CONDUCTANCE..... 1180.
 TOTAL DISSOLVED SOLIDS... 746.
 CHARGE BALANCE (% DIFF)... 0.2

ANALYSIS IN PPM

AG....		CO3..... N					
AL....		CR.....		MG... 22.			

ISOTOPES (0/00)

H..... 0.54 F..... 1.6 NA... 130. S102. 28.
 HF..... FE(TOT).. NH... S04.. 230.
 CA.... 73. HCO3.... 230. NO3.. N
 CL.... 100.
 CO.... K..... 15.

OTHER ANALYTICAL DATA... SULFIDE = 0.16 PPM

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... HRECKENRIDGE AND HINCKLEY, 1978

RECORD 00017

GEOCHEM SAMPLE FILE

GEOCHEM FILE ID# 0075019

NAME OF SAMPLE SOURCE... SWEETWATER STATION SPRING NO. 2

LOCATION TOWNSHIP-RANGE
 COUNTRY..... UNITED STATES 29N 09SW 15 SW OF NE
 STATE..... WYOMING
 COUNTY..... FREMONT
 GEOLOGIC PROVINCE..

COORDINATES

LAT/LONG... 42-29.53 N 108-10.25 W
 UTM ZONE... +12
 NORTHING... 4708088.
 732506.

MAP REFERENCE..... HAPPY SPRING 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/08/18
 TEMPERATURE (C)..... 0 31.5

WATER ANALYSIS

PH..... 7.7
 SPECIFIC CONDUCTANCE... 1140.
 TOTAL DISSOLVED SOLIDS... 695.
 CHANGE IN BALANCE (% DIFF)... 1.1

ANALYSIS IN PPM

AL..... CR..... MG... 26.
 H..... 0.4 F..... 1.6 NA... 126. S102. 27.
 HF..... FE(TOT).. NH... S04.. 220.
 CA.... 62. HCO3.... 200. NO3.. N
 CL.... 119.
 CO.... K..... 18.

ISOLOPES (0/00)

QUALIFICATION FIELD..... TEMPERATURE FROM 10/7/76 ANALYSIS.

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... HRECKENRIDGE AND HINCKLEY, 1978

RECORD 00018

GEOCHEM SAMPLE FILE

GEOCHEM FILE ID# 0075018

NAME OF SAMPLE SOURCE... SWEETWATER STATION SPRING NO. 2

LOCATION TOWNSHIP-RANGE
 COUNTRY..... UNITED STATES 29N 09SW 15 SW OF NE
 STATE..... WYOMING
 COUNTY..... FREMONT
 GEOLOGIC PROVINCE.. 41
 MAP REFERENCE..... HAPPY SPRING 1:24000

COORDINATES

LAT/LONG... 42-29.53 N 108-10.25 W
 UTM ZONE... +12
 NORTHING... 4708088.
 732506.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/10/07
 TEMPERATURE (C)..... 31.5
 DISCHARGE..... 1703. L/MIN

WATER ANALYSIS

PH..... 7.9
 SPECIFIC CONDUCTANCE..... 1100.
 TOTAL DISSOLVED SOLIDS..... 674.
 CHARGE IMBALANCE (% DIFF).... 8.4

ANALYSIS IN PPM

AG....		CO3..... N					
AL....		CR.....		MG...	22.		
H.....	0.26	F.....	1.6	NA...	120.	SI02.	33.
HE....		FE(TOT).		NH...		S04..	230.
CA....	71.	HCO3....	230.	NO3..	N		
CL....	120.						
CO....		K.....	15.				

ISOTOPES (0/00)

OTHER ANALYTICAL DATA... SULFIDE = 0.66 PPM

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00019

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... WARM SPRING CREEK SPRINGS

GEOHERM FILE ID: 0075016

LOCATION

COUNTRY..... UNITED STATES

TOWNSHIP-RANGE

42N 107W 32 SW OF NW

COORDINATES

LAT/LONG... 43-33.60 N 109-43.88 W

STATE..... WYOMING

UTM ZONE... 12

COUNTY..... FREMONT

NORTHING... 4823571.

GEOLOGIC PROVINCE..

602466.

MAP REFERENCE..... UWB015 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/09/21

TEMPERATURE (C)..... 0 29.

WATER ANALYSIS

PH..... 6.8
 SPECIFIC CONDUCTANCE..... 937.
 TOTAL DISSOLVED SOLIDS..... 547.
 CHARGE IMBALANCE (% DIFF).... 1.3

ANALYSIS IN PPM

AG....		CO3..... N					
AL....		CR.....		MG...	38.		
H.....	0.11	F.....	1.2	NA...	17.	SI02.	18.
HE....		FE(TOT).		NH...		S04..	84.
CA....	123.	HCO3....	479.	NO3..	N		
CL....	23.						
CO....		K.....	7.0				

ISOTOPES (0/00)

QUALIFICATION FIELD..... TEMPERATURE FROM 9/21/76 ANALYSIS.

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00020

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... WARM SPRING CREEK SPRINGS

GEOHERM FILE ID: 0075015

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 42N 107W 32 SW OF NW
 STATE..... WYOMING
 COUNTY..... FREMONT
 GEOLOGIC PROVINCE.. 41
 MAP REFERENCE..... DUHOIS 1:24000

LAT/LONG... 43-33.60 N 109-43.88 W
 UTM ZONE... +12
 NORTHING... 4823571.
 692466.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1976/09/21
 TEMPERATURE (C)..... 29.0
 DISCHARGE..... 503. L/MIN

WATER ANALYSIS

PH..... 7.7
 SPECIFIC CONDUCTANCE..... 922.
 TOTAL DISSOLVED SOLIDS... 578.
 CHARGE IMBALANCE (% DIFF)... 12.5

ANALYSIS IN PPM

AG....		CO3.....	N			
AL....		CR.....		MG...	32.	
H....	0.06	F.....	1.1	NA...	17.	SI02. 18.
HE....		FE(TOT).		NB...		S04.. 89.
CA....	172.	HCO3....	500.	NO3..	N	
CL....	21.					
CO....		K.....	6.5			

ISOTOPES (0/00)

OTHER ANALYTICAL DATA... SULFIDE = 0.009 PPM
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00021

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0075025

NAME OF SAMPLE SOURCE... BATHON SPRING
 LOCATION
 COUNTRY..... UNITED STATES 43N 095W 25 SE OF SE
 STATE..... WYOMING
 COUNTY..... HOT SPRINGS
 GEOLOGIC PROVINCE.. 41
 MAP REFERENCE..... THERMOPOLIS 1:24000

COORDINATES
 LAT/LONG... 43-39.67 N 108-11.72 W
 UTM ZONE... +12
 NORTHING... 4837848.
 726148.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1976/09/02
 TEMPERATURE (C)..... 53.0
 DISCHARGE..... 7.0 L/MIN

WATER ANALYSIS

PH..... 7.1
 SPECIFIC CONDUCTANCE..... 3090.
 TOTAL DISSOLVED SOLIDS... 2330.
 CHARGE IMBALANCE (% DIFF)... 5.1

ANALYSIS IN PPM

AG....		CO3.....	N			
AL....		CR.....		MG...	73.	
H....	0.49	F.....	4.2	NA...	270.	SI02. 39.
HE....		FE(TOT).		NB...		S04.. 780.
CA....	340.	HCO3....	730.	NO3..	N	
CL....	330.					
CO....		K.....	44.			

ISOTOPES (0/00)

OTHER ANALYTICAL DATA... SULFIDE = .001 PPM

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, M. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00022

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0075032

NAME OF SAMPLE SOURCE... BIG SPRING

LOCATION

COUNTRY..... UNITED STATES TOWNSHIP-RANGE 43N 094W 31 SW OF NW
 STATE..... WYOMING
 COUNTY..... HOT SPRINGS
 GEOLOGIC PROVINCE..

COORDINATES

LAT/LONG... 43-39.27 N 108-11.62 W
 UTM ZONE... +12
 NORTING... 4837112.
 726308.

MAP REFERENCE..... THERMOPOLIS 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1958/04/11
 TEMPERATURE (C)..... 45.6.

WATER ANALYSIS

PH..... 6.4
 SPECIFIC CONDUCTANCE..... 3150.
 TOTAL DISSOLVED SOLIDS... 2280.
 CHARGE IMBALANCE (% DIFF)... 1.8

ANALYSIS IN PPM

AG.....	CO3..... N				
AL.....	CR.....	MG... 67.			
BA.....	F..... 3.0	NA... 280.	SI02. 40.		
BE.....	FE(TOT). 0.06	NB... 504..	SO4.. 777.		
CA... 380.	HCO3.... 740.	NO3.. N			
CL... 314.					
CO.....	K..... 53.				

ISOTOPES (0/00)

QUALIFICATION FIELD..... TEMPERATURE FROM 9/2/76 ANALYSIS.

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, M. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00023

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0075030

NAME OF SAMPLE SOURCE... BIG SPRING

LOCATION

COUNTRY..... UNITED STATES TOWNSHIP-RANGE 43N 094W 31 SW OF NW
 STATE..... WYOMING
 COUNTY..... HOT SPRINGS
 GEOLOGIC PROVINCE.. 41

COORDINATES

LAT/LONG... 43-39.27 N 108-11.62 W
 UTM ZONE... +12
 NORTING... 4837112.
 726308.

MAP REFERENCE..... THERMOPOLIS 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/09/02
 TEMPERATURE (C)..... 56.0

DISCHARGE..... 11008. L/MIN

WATER ANALYSIS

PH..... 6.9
 SPECIFIC CONDUCTANCE..... 2960.
 TOTAL DISSOLVED SOLIDS... 2190.
 CHARGE IMBALANCE (% DIFF)... 7.3

ANALYSIS IN PPM

AG.... L 0.5	CO3..... N	LI....	S....	0.006
AL....	CR..... L 0.1	MG.... 71.		
AS.... L 0.05	CS.....	MN.... L 0.05		
AU....	CU..... L 0.01	MO....	SE... L 0.001	
H.... 0.54	F..... 6.8	NA.... 250.	SI02.. 37.	
HA.... L 0.5				
HF....	FE(TOT). N	NB....	S04.. 730.	
HR....	GE.....	NI.... L 0.1		
CA.... 310.	HCO3.... 710.	NO3.. N		
CA.MG.	HG..... 0.001	PU.... L 0.1		
CD.... L 0.01				
CL.... 100.				
CO....	K..... 37.			
				ZN... L 0.02

ISOTOPE (0/001)

QUALIFICATION FIELD..... IRREGULAR FLOW LAST 8 YEARS VARYING FROM 8630 TO 12011 L/MIN. ALL REPORTED TEMPERATURES 56 TO 57 DEG C.

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00024

GEOHERM SAMPLE FILE

GEOHERM FILE 101 0075035

NAME OF SAMPLE SOURCE... BIG SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 43N 094W 31 SW OF NW
 STATE..... WYOMING
 COUNTY..... HOT SPRINGS
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... THERMOPOLIS 1124000

LAT/LONG... 43-39.27 N 108-11.62 W
 UTM ZONE... +12
 NORTHING... 4837112.
 726308.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1986/00/00
 TEMPERATURE (C)..... 0 56.

WATER ANALYSIS

ANALYSIS IN PPM

AL....	CR.....	MG.... 113.		
H....	F.....	NA.... 83.	SI02.. 40.	
HF....	FE(TOT). 2.5	NB....	S04.. 556.	
CA.... 115.				
CL.... 84.				
CO....	K..... 91.			

ISOTOPE (0/001)

QUALIFICATION FIELD..... TEMPERATURE FROM 9/2/76 ANALYSIS.

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00025

GEOHERM SAMPLE FILE

GEOHERM FILE 101 0075034

NAME OF SAMPLE SOURCE... BIG SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 43N 094W 31 SW OF NW
 STATE..... WYOMING
 COUNTY..... HOT SPRINGS

LAT/LONG... 43-39.27 N 108-11.62 W
 UTM ZONE... +12
 NORTHING... 4837112.

GEOLOGIC PROVINCE..
 MAP REFERENCE..... THERMOPOLIS 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1976/00/00
 TEMPERATURE (C)..... 0 56.
 DISCHARGE..... 10516. L/MIN

726308.

WATER ANALYSIS

ANALYSIS IN PPM

AL....	CR.....	MG...	113.		
H.....	F.....	NA...	258.	SI02.	40.
HE....	FE(TOT)..	NI...		S04..	556.
CA.... 315.					
CL.... 339.					
CO....	K.....		91.		

ISOTOPES (0/001)

QUALIFICATION FIELD..... TEMPERATURE FROM 9/2/76 ANALYSIS.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00026

GEOHEM SAMPLE FILE

GEOHEM FILE 101 0075033

NAME OF SAMPLE SOURCE... BIG SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	43N 094W 31	SW OF NW	LAT/LONG...	43-39.27 N 108-11.62 W
STATE.....	WYOMING			UTM ZONE...	+12
COUNTY.....	HOT SPRINGS			NORTHING...	4837112.
GEOLOGIC PROVINCE..					726308.

MAP REFERENCE..... THERMOPOLIS 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1973/06/12
 TEMPERATURE (C)..... 0 56.

WATER ANALYSIS

TOTAL DISSOLVED SOLIDS... 2373.
 CHARGE IMBALANCE (% DIFF)... 0.3

ANALYSIS IN PPM

AL....	CR.....	MG...	76.		
H.....	F.....	NA...	262.	SI02.	38.
HE....	FE(TOT)..	NI...		S04..	769.
CA.... 385.	MCU3....	NU3..	0.1		
CL.... 328.	M2S.....				
CO....	K.....		49.		

ISOTOPES (0/001)

QUALIFICATION FIELD..... TEMPERATURE FROM 9/2/76 ANALYSIS.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00027

GEOHEM SAMPLE FILE

GEOHEM FILE 101 0075031

NAME OF SAMPLE SOURCE... BIG SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	43N 094W 31	SW OF NW	LAT/LONG...	43-39.27 N 108-11.62 W
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STATE..... WYOMING
 COUNTY..... HOT SPRINGS
 GEOLOGIC PROVINCE...
 MAP REFERENCE..... THERMOPOLIS 112400

UTM ZONE... +12
 NORTHING... 4837112.
 726308.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1971/02/24
 TEMPERATURE (C)..... 0 56.

WATER ANALYSIS

PH..... 7.0
 SPECIFIC CONDUCTANCE..... 2860.
 TOTAL DISSOLVED SOLIDS... 2290.
 CHARGE BALANCE (% DIFF)... 2.5

ANALYSIS IN PPM

AG.....		CO3.....	N				
AL.....		CR.....		MG...	86.		
B.....	0.01	F.....	5.5	NA...	250.	SI02..	35.
BR.....		FE(TOT)..	0.04	NH...		S04..	714.
CA.....	367.	HCO3.....	708.	NO3... N			
CL.....	294.						
CO.....		K.....	51.				

ISOLOPES (0/00)

QUALIFICATION FIELD..... TEMPERATURE FROM 9/2/76 ANALYSIS.
 REFERENCE QUALIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILED AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... HILCKENRIDGE AND HINCKLEY, 1978

RECORD 00028

GEOHEM SAMPLE FILE

GEOHEM FILE ID: 0075029

NAME OF SAMPLE SOURCE... BLACK SULPHUR SPRING
 LOCATION..... LOWESSHIP-RANGE
 COUNTRY..... UNITED STATES 43N 095W 36 SW OF NE
 STATE..... WYOMING
 COUNTY..... HOT SPRINGS
 GEOLOGIC PROVINCE... 41
 MAP REFERENCE..... THERMOPOLIS 112400

COORDINATES

LAT/LONG... 43-39.32 N 108-11.63 W
 UTM ZONE... +12
 NORTHING... 4837204.
 726291.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1973/06/12
 TEMPERATURE (C)..... 0 55.
 DISCHARGE..... 0

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 2990.
 TOTAL DISSOLVED SOLIDS... 2378.
 CHARGE BALANCE (% DIFF)... 3.9

ANALYSIS IN PPM

AL.....		CR.....		MG...	75.		
B.....		F.....	3.8	NA...	226.	SI02..	71.
BR.....		FE(TOT)..	0.05	NH...		S04..	777.
CA.....	393.	HCO3.....	740.				
CL.....		H2S.....	1.4				
CO.....	314.						
CO.....		K.....	49.				

ISOLOPES (0/00)

QUALIFICATION FIELD..... TEMPERATURE FROM 9/2/76 ANALYSIS. IN 1925 THIS SPRING FLOWED 59 L/MIN AT 53 DEG C. IN 1976

THERE WAS NO FLOW.
 REFERENCE QUALIFICATION

COMPILED BY..... HEASLER, H. P.

COMPILED AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00029

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0075021

NAME OF SAMPLE SOURCE... MAYTAG WELL
 LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 43N 09SW 24 SW OF SE
 STATE..... WYOMING
 COUNTY..... HOT SPRINGS
 GEOLOGIC PROVINCE.. 41
 MAP REFERENCE..... THERMOPOLIS 112400

LAT/LONG... 43-40.47 N 108-12.23 W
 UTM ZONE... +12
 NORTING... 4839305.
 725413.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/01/02
 TEMPERATURE (C)..... 54.0
 WELL DEPTH (M)..... 274.

DISCHARGE..... 2040. L/MIN

OTHER SAMPLE INFORMATION.. DRILLED IN 1919. ARTESIAN FLOW USED FOR IRRIGATION.

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILED AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00030

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0075024

NAME OF SAMPLE SOURCE... MCCARTHY WELL

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 43N 09SW 25 SE OF SE
 STATE..... WYOMING
 COUNTY..... HOT SPRINGS
 GEOLOGIC PROVINCE.. 41
 MAP REFERENCE..... THERMOPOLIS 112400

LAT/LONG... 43-39.90 N 108-11.67 W
 UTM ZONE... +12
 NORTING... 4838276.
 726201.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/09/03
 TEMPERATURE (C)..... 54.0
 WELL DEPTH (M)..... 155.

DISCHARGE..... 2207. L/MIN

OTHER SAMPLE INFORMATION.. DRILLED IN 1920.

WATER ANALYSIS

P.H..... 7.1
 SPECIFIC CONDUCTANCE.... 3120.
 TOTAL DISSOLVED SOLIDS... 2380.
 CHARGE BALANCE (% DIFF)... 5.2

ANALYSIS IN PPM

AG....	CO3.....	LI...	S....	L 0.001	<u>ISOINES (0200)</u>
AL....	CR.....	MG... 76.	SI02..	36.	
N.... 0.41	F..... 4.4	NA... 270.	S04..	830.	
NE....	FE (TOT).	NH... 504..			
CA.... 399.	HCO3.... 760.	NO3.. N			
CL.... 369.					
CO....	K..... 46.				

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILED AFFILIATION... UNIVERSITY OF WYOMING

REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00031

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0075028

NAME OF SAMPLE SOURCE... PILING SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 43N 09SW 36 SW OF NE
 STATE..... WYOMING
 COUNTY..... HOT SPRINGS
 GEOLOGIC PROVINCE..

LAT/LONG... 43-39.27 N 108-12.00 W
 UTM ZONE... +12
 NORTHING... 4837094.
 725797.

MAP REFERENCE..... THERMOPOLIS 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/09/02

TEMPERATURE (C)..... 35.0

DISCHARGE..... N L/MIN

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.

COMPILER AFFILIATION... UNIVERSITY OF WYOMING

REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00032

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0075023

NAME OF SAMPLE SOURCE... SACAJAWEA WELL

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 43N 09SW 25 NW OF NE
 STATE..... WYOMING
 COUNTY..... HOT SPRINGS
 GEOLOGIC PROVINCE..

LAT/LONG... 43-40.30 N 108-12.23 W
 UTM ZONE... +12
 NORTHING... 4838991.
 725423.

MAP REFERENCE..... THERMOPOLIS 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1969/04/21

TEMPERATURE (C)..... 0 52.

WELL DEPTH (M)..... 274.

OTHER SAMPLE INFORMATION.. TEMPERATURE FROM 9/2/76 ANALYSIS. ARTESIAN FLOW TO SURFACE. WELL DRILLED IN 1918.

WATER ANALYSIS

PH..... 6.6

SPECIFIC CONDUCTANCE..... 3170.

CHARGE BALANCE (% DIFF)... 1.0

ANALYSIS IN PPM

AG.....	CO3.....	N	MG.....	76.		
AL.....	CR.....		NA.....	227.		
B.....	F.....		NH.....		504..	819.
BF.....	FE(TOT)..		NO3..	0.1		
CA.....	HCO3.....	741.				
CL.....						
CO.....	K.....	46.				

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.

COMPILER AFFILIATION... UNIVERSITY OF WYOMING

REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00033

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0075022

NAME OF SAMPLE SOURCE... SACAJAWEA WELL

LOCATION
COUNTRY..... UNITED STATES TOWNSHIP=RANGE 43N 095W 25 NW OF NE

COORDINATES

LAT/LONG... 43-40.30 N 108-12.23 W
UTM ZONE... +12
NORTHING... 4838991.
725423.STATE..... WYOMING
COUNTY..... HOT SPRINGS
GEOLOGIC PROVINCE..

MAP REFERENCE..... THERMOPOLIS 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/09/02

TEMPERATURE (C)..... 52.0

WELL DEPTH (M)..... 274.

DISCHARGE..... 4618. L/MIN

OTHER SAMPLE INFORMATION.. DRILLED IN 1918. ARTESIAN FLOW TO SURFACE.

WATER ANALYSIS

PH..... 7.0

SPECIFIC CONDUCTANCE..... 3140.

TOTAL DISSOLVED SOLIDS... 2390.

CHARGE IMBALANCE (% DIFF)... 6.6

ANALYSIS IN PPM

AG.... L 0.5	CO3..... N	LI....	S.... L 0.001
AL....	CR..... L 0.1	MG.... 79.	
AS.... L 0.05	CS.....	MN.... L 0.05	
AU....	CU..... L 0.01	MO....	SE... L 0.001
B.... 0.45	F..... 5.4	NA.... 270.	SI02. 35.
BA.... L 0.5			
BE....	FE(TOT). N	NO....	S04.. 840.
BR....	GE.....	NI.... L 0.1	
CA.... 340.	HCO3.... 760.	NO3.. N	
CA-MG.	HG..... L 0.001	PB.... L 0.1	
CH.... L 0.01			
CL.... 300.			
CO....	K..... 40.		
			ZN... L 0.02

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.

COMPILER AFFILIATION... UNIVERSITY OF WYOMING

REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00034

GEOTERM SAMPLE FILE

GEOTERM FILE 101 0075020

NAME OF SAMPLE SOURCE... VAN NORMAN WELL

LOCATION
COUNTRY..... UNITED STATES TOWNSHIP=RANGE 43N 095W 24 SE OF SW

COORDINATES

LAT/LONG... 43-40.47 N 108-12.50 W
UTM ZONE... +12
NORTHING... 4839293.
725050.STATE..... WYOMING
COUNTY..... HOT SPRINGS
GEOLOGIC PROVINCE..

MAP REFERENCE..... THERMOPOLIS 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/09/02

POINT OF COLLECTION..

WELLHEAD PRESSURE (KG/CM2)..... 1.8

TEMPERATURE (C)..... 51.0

WELL DEPTH (M)..... 152.

OTHER SAMPLE INFORMATION.. DRILLED IN 1919. ARTESIAN FLOW CONTROLLED AND USED TO HEAT LOCAL HOUSE.

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.

COMPILER AFFILIATION... UNIVERSITY OF WYOMING

REFERENCE..... BRECKENRIDGE AND MINCKLEY, 1978

RECORD 00035

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0075027

NAME OF SAMPLE SOURCE... WHITE SULPHUR SPRING
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP=RANGE SW OF SW COORDINATES
 STATE..... WYOMING 43N 094W 30 LAT/LONG... 43-39.67 N 108-11.68 W
 COUNTY..... HOT SPRINGS UTM ZONE... +12
 GEOLOGIC PROVINCE... NORTING... 4837849.
 MAP REFERENCE..... THERMOPOLIS 112400 726202.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/06/12
 TEMPERATURE (C)..... 0 53.
 OTHER SAMPLE INFORMATION.. TEMPERATURE FROM 9/2/76 ANALYSIS.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 3090.

TOTAL DISSOLVED SOLIDS... 2321.

CHARGE IMBALANCE (% DIFF)... 0.0

ANALYSIS IN PPM

ANALYSIS IN PPM		ISOTOPES (0/00)	
AL.....	CR.....	MG... 80.	
H.....	F..... 3.8	NA... 253.	37.
HE.....	FE(TOT)... 0.05	NB... 504..	773.
CA..... 383.	HCO3... 784.	NO3... 0.1	
CO.....	H2S..... 2.3		
CL..... 368.			
CO.....	K..... 45.		

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND MINCKLEY, 1978

RECORD 00036

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0075026

NAME OF SAMPLE SOURCE... WHITE SULPHUR SPRING
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP=RANGE SW OF SW COORDINATES
 STATE..... WYOMING 43N 094W 30 LAT/LONG... 43-39.67 N 108-11.68 W
 COUNTY..... HOT SPRINGS UTM ZONE... +12
 GEOLOGIC PROVINCE.. 41 NORTING... 4837849.
 MAP REFERENCE..... THERMOPOLIS 112400 726202.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/09/02
 TEMPERATURE (C)..... 53.0
 DISCHARGE..... 780. L/MIN

WATER ANALYSIS

PH..... 7.0

SPECIFIC CONDUCTANCE..... 2990.

TOTAL DISSOLVED SOLIDS... 2350.

CHARGE IMBALANCE (% DIFF)... 5.7

ANALYSIS IN PPM

ANALYSIS IN PPM		ISOTOPES (0/00)	
AL.....	CO3..... 4	MG... 77.	
AL.....	CR.....	NA... 270.	37.
H..... 0.45	F..... 8.1		

HE.... FE(TOT). NB... S04.. 820.
 CA.... 340. HCO3.... 750. NU3.. N
 CL.... 300. K..... 42.
 CO....

OTHER ANALYTICAL DATA... SULFIDE = L .001 PPM
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00037

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0075036

NAME OF SAMPLE SOURCE... WIND RIVER CANYON SPRING
 LOCATION
 COUNTRY..... UNITED STATES 42N 095W 25 SW OF NW
 STATE..... WYOMING
 COUNTY..... HOT SPRINGS
 GEOLOGIC PROVINCE.. 41
 MAP REFERENCE..... WEEDING OF THE WATER 1124000

COORDINATES
 LAT/LONG... 43-34.92 N 108-13.73 W
 UTM ZONE... +12
 NORTING... 4828964.
 723741.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1976/09/01
 TEMPERATURE (C)..... 22.0
 DISCHARGE..... 3744. L/MIN

WATER ANALYSIS
 PH..... 7.5
 SPECIFIC CONDUCTANCE.... 1160.
 TOTAL DISSOLVED SOLIDS... 800.
 CHARGE IMBALANCE (% DIFF)... 4.9
 ANALYSIS IN PPM

ISOTOPES (0/00)

AG.... CO3.... N
 AL.... CH.... 49.
 H.... 0.1 F..... 1.3 NA... 40. S102. 12.
 HE.... FE(TOT). NB... S04.. 290.
 CA.... 140. HCO3.... 390. NU3.. N
 CL.... 30. K..... 6.7
 CO....

OTHER ANALYTICAL DATA... SULFIDE = L .001 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00038

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0075037

NAME OF SAMPLE SOURCE... WIND RIVER CANYON SPRING
 LOCATION
 COUNTRY..... UNITED STATES 42N 095W 25 SW OF NW
 STATE..... WYOMING
 COUNTY..... HOT SPRINGS
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... WEEDING OF THE WATER 1124000

COORDINATES
 LAT/LONG... 43-34.92 N 108-13.73 W
 UTM ZONE... +12
 NORTING... 4828964.
 723741.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1970/07/67
 TEMPERATURE (C)..... 42.2.

WATER ANALYSIS

PH..... 8.0
 SPECIFIC CONDUCTANCE..... 1150.
 TOTAL DISSOLVED SOLIDS..... 759.
 CHARGE IMBALANCE (% DIFF).... 2.1

ANALYSIS IN PPM

AG.....		CO3.....	N				
AL.....		CH.....		MG...	50.		
B.....	0.12	F.....	1.2	NA...	41.	SI02.	13.
BE.....		FE(TOT)...	0.09	NB...		S04..	276.
CA.....	146.	HCO3.....	377.	NO3..	0.3		
CL.....	39.						
CO.....		K.....	7.4				

ISOTOPES (0/00)

QUALIFICATION FIELD..... TEMPERATURE FROM 9/1/76 ANALYSIS.

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00039

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0000779

NAME OF SAMPLE SOURCE... ALBUHURN AREA

LOCATION..... UNITED STATES

COORDINATES

COUNTRY..... UNITED STATES

LAT/LONG... 42-49.50 N 111-00.00 W

STATE..... WYOMING

UTM ZONE... +12

COUNTY..... LINCOLN

NORTHING... 4741167.

GEOLOGIC PROVINCE..

S00000.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 16.0

DISCHARGE..... 11. L/MIN

WATER ANALYSIS

DATE/ANALYST..... 1958/04/00

PH..... 8.2

CHARGE IMBALANCE (% DIFF).... 5.8

ANALYSIS

H.....		F.....		NA...	1500.	SI02.	110.
HE.....		FE(TOT)...		NB...		S04..	1430.
CA.....	252.	HCO3.....	70.				
CL.....	2000.						
CO.....		K.....	180.				

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... REINER, J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... WHITE AND WILLIAMS, 1975

RECORD 00040

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0075041

NAME OF SAMPLE SOURCE... ALBUHURN HOT SPRINGS

LOCATION..... UNITED STATES

COORDINATES

COUNTRY..... UNITED STATES

LAT/LONG... 42-50.42 N 110-59.50 W

STATE..... WYOMING

UTM ZONE... +12

COUNTY..... LINCOLN

NORTHING... 4742870.

GEOLOGIC PROVINCE..

S00681.

MAP REFERENCE..... BEDFORD 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1927/00/00
 TEMPERATURE (C)..... 0 62.0
 OTHER SAMPLE INFORMATION.. COVERS 3 ACRES WITH 100 SEPARATE VENTS AND 2 LARGE POOLS.
 WATER ANALYSIS

CHANGE IMBALANCE (% DIFF)... 1.4

ANALYSIS IN PPM

AL....	CR.....	MG...	97.		
H.....	F.....	NA...	1314.	SI02.	20.
HE....	FE(TOT)..	NB...		S04..	1904.
CA....	MCU3....		154.		
CL....					
CO....	K.....		114.		

ISOTOPES (0/001)

QUALIFICATION FIELD..... TEMPERATURE FROM 9/22/76 ANALYSIS. GEOCHEMICAL WORK SUGGESTS SUBSURFACE TEMPERATURE OF 150 DEG C.

REFERENCE AND IDENTIFICATION

COMPILED BY..... WEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00041

GEOTERM SAMPLE FILE

GEOTERM FILE IDI 0075040

NAME OF SAMPLE SOURCE... AUBURN HOT SPRINGS

LOCATION

COUNTRY..... UNITED STATES TOWNSHIP=RANGE 33N 119W 23 NW OF SE
 STATE..... WYOMING
 COUNTY..... LINCOLN
 GEOLOGIC PROVINCE..

COORDINATES

LAT/LONG... 42-50.42 N 110-59.50 W
 UTM ZONE... +12
 NORTHING... 4742870.
 500681.

MAP REFERENCE..... BEDFORD 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1972/00/00
 TEMPERATURE (C)..... 0 16.0
 OTHER SAMPLE INFORMATION.. COVERS 3 ACRES WITH 100 SEPARATE VENTS AND 2 LARGE POOLS.
 WATER ANALYSIS

CHANGE IMBALANCE (% DIFF)... 0.8

ANALYSIS IN PPM

AL....	CR.....	MG...	70.		
H.....	F.....	NA...	1500.		
HE....	FE(TOT)..	NU...		S04..	1430.
CA....	MCU3....	NUJ..	6.6		
CL....					
CO....	K.....		180.		

ISOTOPES (0/001)

QUALIFICATION FIELD..... GEOCHEMICAL WORK SUGGESTS SUBSURFACE TEMPERATURE OF 150 DEG C.

REFERENCE AND IDENTIFICATION

COMPILED BY..... WEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00042

GEOTERM SAMPLE FILE

GEOTERM FILE IDI 0075039

NAME OF SAMPLE SOURCE... AUBURN HOT SPRINGS

LOCATION

COUNTRY..... UNITED STATES TOWNSHIP=RANGE 33N 119W 23 NW OF SE
 STATE..... WYOMING

COORDINATES

LAT/LONG... 42-50.42 N 110-59.50 W
 UTM ZONE... +12

COUNTY..... LINCOLN
 GEOLOGIC PROVINCE...
 MAP REFERENCE..... BEDFORD 1124000
 NORTHING... 4742870.
 500681.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1972/00/00
 TEMPERATURE (C)..... 0 62.0
 OTHER SAMPLE INFORMATION.. COVERS 3 ACRES WITH 100 SEPARATE VENTS AND 2 LARGE POOLS.
 WATER ANALYSIS
 CHARGE IMBALANCE (% DIFF)... 0.2
 ANALYSIS IN PPM
 AL..... CR..... MG... 74.
 H..... 1.3 F..... 3.5 NA... 1410.
 NE..... FE(TOT). NB... 504.. 1100.
 CA..... 134. HCO3... 94.
 CL..... 1890.
 CO..... K..... 150.
 QUALIFICATION FIELD... GEOCHEMICAL WORK SUGGESTS SUBSURFACE TEMPERATURE OF 150 DEG C.
 REFERENCE AND INVESTIGATION
 COMPILED BY..... HEASLER, H. P.
 COMPILED AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00043

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0075038

NAME OF SAMPLE SOURCE... AUBURN HOT SPRINGS
 LOCATION
 COUNTY..... UNITED STATES TOWNSHIP-RANGE 33N 119W 23 NW OF SE
 COORDINATES
 STATE..... WYOMING LAT/LONG... 42-50.42 N 110-59.50 W
 COUNTY..... LINCOLN UTM ZONE... +12
 GEOLOGIC PROVINCE.. 41 NORTHING... 4742870.
 500681.
 MAP REFERENCE..... BEDFORD 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1976/09/22
 TEMPERATURE (C)..... 0 62.0
 DISCHARGE..... 140. L/MIN
 OTHER SAMPLE INFORMATION.. COVERS 3 ACRES WITH 100 SEPARATE VENTS AND 2 LARGE POOLS.
 WATER ANALYSIS

PH..... 7.5
 SPECIFIC CONDUCTANCE..... 6800.
 TOTAL DISSOLVED SOLIDS... 5250.
 CHARGE IMBALANCE (% DIFF)... 5.9
 ANALYSIS IN PPM
 AG... L 0.05 COJ... N LI... S... 0.8
 AL... CR... L 0.1 MG... 70.
 AS... L 0.05 CS... MN... L 0.05
 AU... CU... L 0.01 SE... L 0.001
 H... 2.2 F... 0.6 NA... 1400. SI02. 35.
 HA... L 0.5
 HE... FE(TOT). N NB... 504.. 1100.
 HR... GE... NI... L 0.1
 CA... 400. HCO3... 860. NO3.. N
 CA-MG. MG... L 0.001 PB... 0.5
 CL... L 0.01
 CL... 1700.
 CO... K..... 140. ZN... 0.34

QUALIFICATION FIELD..... GEOCHEMICAL WORK SUGGESTS SUBSURFACE TEMPERATURE OF 150 DEG C.

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00044

GEO THERM SAMPLE FILE

GEO THERM FILE 101 0075042

NAME OF SAMPLE SOURCE... JOHNSON SPRINGS

LOCATION

COUNTRY..... UNITED STATES TOWNSHIP-RANGE SE OF NE
 STATE..... WYOMING 33N 119W 26
 COUNTY..... LINCOLN
 GEOLOGIC PROVINCE.. 41
 MAP REFERENCE..... BEDFORD 1124000

COORDINATES

LAT/LONG... 42-49.08 N 110-59.50 W
 UTM ZONE... +12
 NORTING... 4740390.
 500681.

OTHER LOCALITY INFORMATION LOCATED 1 MILE SOUTH OF AUBURN HOT SPRINGS.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/09/22
 TEMPERATURE (C)..... 46.0
 DISCHARGE..... 7.6 L/MIN
 DEPOSITS OR ALTERATION... 5 TRAVERTINE CONES TO 8 FT IN HEIGHT.
 OTHER SAMPLE INFORMATION.. SPRINGS IN LINEAR PATTERN.

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00045

GEO THERM SAMPLE FILE

GEO THERM FILE 101 0075044

NAME OF SAMPLE SOURCE... ALCOVA HOT SPRINGS

LOCATION

COUNTRY..... UNITED STATES TOWNSHIP-RANGE NW OF NE
 STATE..... WYOMING 30N 083W 25
 COUNTY..... NATRONA
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... ALCOVA 1124000

COORDINATES

LAT/LONG... 42-32.28 N 106-43.27 W
 UTM ZONE... +13
 NORTING... 4710734.
 358658.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1900/00/00
 TEMPERATURE (C)..... 59.0
 OTHER SAMPLE INFORMATION.. SITE IS NOW UNDER 160 FT OF WATER CAUSED BY ALCOVA DAM.

WATER ANALYSIS

TOTAL DISSOLVED SOLIDS... 1381.
 CHARGE BALANCE (% DIFF)... 10.6
 ANALYSIS IN PPM

ISOTOPES (0/00)

AL.....	CA.....	MG...	59.		
H.....	F.....	NA...	210.	SI02.	40.
NE.....	FE(TOT).	NB...		S04..	460.
CA.... 163.	NC03....		138.		
CL.... 296.					
CU....	K.....		13.		

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00046

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0075043

NAME OF SAMPLE SOURCE... ALCOVA HOT SPRINGS

LOCATION

COUNTRY..... UNITED STATES TOWNSHIP=RANGE 30N 083W 25 NW OF NE
 STATE..... WYOMING
 COUNTY..... NATRONA

COORDINATES

LAT/LONG... 42-32.28 N 106-43.27 W
 UTM ZONE... +13
 NORTHING... 4710734.
 358658.

MAP REFERENCE... ALCOVA 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1929/05/25

TEMPERATURE (C)..... 54.0

DISCHARGE..... 379. L/MIN

OTHER SAMPLE INFORMATION.. FLOW CAME FROM 4 VENTS. TWO VENTS EACH FLOWED 40 GPM. SITE IS NOW UNDER 160 FT. OF WATER CAUSED BY ALCOVA DAM.

WATER ANALYSIS

TOTAL DISSOLVED SOLIDS... 1260.

CHARGE IMBALANCE (% DIFF)... 0.3

ANALYSIS IN PPM

AG.... CO3..... N
 AL.... CR.....
 H.... F.....
 HE.... FE(TOT)... 0.1
 CA.... 157. HCO3.... 91.
 CL.... 287.
 CU.... K..... 14.

ISOTOPES (0/00)

MG... 27.
 NA... 199. SI02. 41.
 NI... S04... 458.
 NO3... 0.1

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.

COMPILER AFFILIATION... UNIVERSITY OF WYOMING

REFERENCE..... BRECKENRIDGE AND MINCKLEY, 1978

RECORD 00047

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0075045

NAME OF SAMPLE SOURCE... HORSE CREEK SPRINGS

LOCATION

COUNTRY..... UNITED STATES TOWNSHIP=RANGE 32N 086W 35 SE OF NW
 STATE..... WYOMING
 COUNTY..... NATRONA
 GEOLOGIC PROVINCE... 41

COORDINATES

LAT/LONG... 42-42.10 N 107-06.33 W
 UTM ZONE... +13
 NORTHING... 4729621.
 327548.

MAP REFERENCE... HORSE CREEK SPRINGS 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/09/01

TEMPERATURE (C)..... 73.5

DISCHARGE..... 8328. L/MIN

OTHER SAMPLE INFORMATION.. TWO MAIN VENTS 30 FT APART.

WATER ANALYSIS

PH..... 7.7

SPECIFIC CONDUCTANCE... 798.

TOTAL DISSOLVED SOLIDS... 502.

CHARGE IMBALANCE (% DIFF)... 2.5

ANALYSIS IN PPM

AG.... CO3..... N
 AL.... CR.....

LI... S.... L 0.001
 MG... 26.

ISOTOPES (0/00)

H.....	0.93	F.....	1.6	NA...	8.8	SI02.	21.
HE.....		FE(TOT).		NU...		S04..	290.
CA.....	120.	NC03....	170.	NO3..	0.4		
CL.....	1.8						
CO.....		K.....	8.8				

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00048

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0075046

NAME OF SAMPLE SOURCE... BUFFALO BILL RESERVOIR SPRINGS

LOCATION

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 GEOLOGIC PROVINCE..

TOWNSHIP-RANGE

S2N 103W 12.10NW4

COORDINATES

LAT/LONG... 44-28.50 N 109-12.25 W
 UTM ZONE... +12
 NORTHING... 4925984.
 642830.

MAP REFERENCE..... DEVILS TOUTH 1162500

OTHER LOCALITY INFORMATION: DETAILED LOCATION OF ALL 4 SPRINGS: SEC. 12 SE/4 OF NW/4 SEC. 12 NW/4 OF NW/4 SEC. 10 SE/4 OF NE/4 SEC. 14 SW/4 OF NE/4.

SAMPLE DESCRIPTION AND CONDITIONS

OTHER SAMPLE INFORMATION.. TOTAL OF 4 SPRINGS. COVERED BY BUFFALO BILL RESERVOIR IN 1907. KEEPS AN AREA IN SECTION 12 ICE-FREE IN WINTER.

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00049

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0075050

NAME OF SAMPLE SOURCE... DE MARIS HOT SPRINGS

LOCATION

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 GEOLOGIC PROVINCE..

TOWNSHIP-RANGE

S2N 102W 03 SW OF NW

COORDINATES

LAT/LONG... 44-30.78 N 109-06.88 W
 UTM ZONE... +12
 NORTHING... 4930365.
 649851.

MAP REFERENCE..... CODY 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/00/00

TEMPERATURE (C)..... 0 24.

DISCHARGE..... 0

OTHER SAMPLE INFORMATION.. SEVEN VENTS. CHEMISTRY FOR UNSPECIFIED VENT.

WATER ANALYSIS

ANALYSIS IN PPM

AG.....		CO3.....		LI...		S....	205.
AL.....	0	CH.....		MG...	173.		
H.....		F.....		NA...	258.	SI02.	19.
HE.....		FE(TOT). 0		NH...		S04..	39.
CA.....	217.	NC03....	681.				
CL.....	17.						

ISOLINES (0/00)

QUALIFICATION FIELD..... FE + AL = 51.9 PPM. VENTS FLOW FROM 4 TO 1893 L/MIN. TEMPERATURES RANGE FROM 27 TO 36 DEG C.

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.

COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00050

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0075048

NAME OF SAMPLE SOURCE... DE MARIS HOT SPRINGS

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 52N 102W 03 SW OF NW
 STATE..... WYOMING
 COUNTY..... PARK

LAT/LONG... 44-30.78 N 109-06.88 W
 UTM ZONE... +12
 NORTHING... 4930365.
 649851.

GEOLOGIC PROVINCE..

MAP REFERENCE..... CODY 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1926/00/00

TEMPERATURE (C)..... 0 37.0

DISCHARGE..... 0

OTHER SAMPLE INFORMATION.. SEVEN VENTS. CHEMISTRY FOR UNSPECIFIED VENT.

WATER ANALYSIS

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO3....	LI....	S....	104.
AL....	CR....	MG....	367.	
H....	F....	NA....	256.	5102. 38.
HE....	FE(TOT). 24.	NB....	504..	641.
CA.... 188.	HCO3.... 872.			
CL.... 29.				

QUALIFICATION FIELD..... OTHER VENTS FLOW FROM 4 TO 1893 L/MIN AND HAVE TEMPERATURES OF 27 TO 36 DEG C.

REFERENCE AND IDENTIFICATION

COMPILED BY..... WEASLER, H. P.

COMPILER AFFILIATION... UNIVERSITY OF WYOMING

REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00051

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0075054

NAME OF SAMPLE SOURCE... DE MARIS HOT SPRINGS

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 52N 102W 03 SW OF NW
 STATE..... WYOMING
 COUNTY..... PARK

LAT/LONG... 44-30.78 N 109-06.88 W
 UTM ZONE... +12
 NORTHING... 4930365.
 649851.

GEOLOGIC PROVINCE..

MAP REFERENCE..... CODY 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1970/08/14

TEMPERATURE (C)..... 0 27.5

DISCHARGE..... 0

OTHER SAMPLE INFORMATION.. SEVEN VENTS. CHEMISTRY FOR VENT 2.

WATER ANALYSIS

PH..... 7.0
 SPECIFIC CONDUCTANCE.... 1790.
 TOTAL DISSOLVED SOLIDS... 1340.
 CHARGE IMBALANCE (3 DIFF)... 1.5

ANALYSIS IN PPM

ISOTOPES (0/00)

AL....	CR....	MG....	70.	
H.... 0.1	F.... 1.9	NA....	30.	5102. 18.
HE....	FE(TOT). 0.08	NB....	504..	418.

CA.... 324. HCO3.... 900. NO3.. N
 CL.... 17.
 CO.... K..... 17.
 QUALIFICATION FIELD.... VENTS FLOW FROM 4 TO 1893 L/MIN. TEMPERATURES RANGE FROM 27 TO 36 DEG C.
 REFERENCE AND INVESTIGATION
 COMPILED BY..... HEASLER, H. P.
 COMPILED AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00052

 GEOTHERM SAMPLE TITLE
 NAME OF SAMPLE SOURCE... DE MAKIS HOT SPRINGS
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE SW OF NW COORDINATES
 STATE..... WYOMING 52N 102W 03 LAT/LONG... 44-30.78 N 109-06.88 W
 COUNTY..... PARK UTM ZONE... +12
 GEOLOGIC PROVINCE.. NORTHING... 4930365.
 MAP REFERENCE..... COOY 1162500 649851.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1976/08/17
 TEMPERATURE (C)..... 27.0
 DISCHARGE..... 0
 OTHER SAMPLE INFORMATION.. SEVEN VENTS. CHEMISTRY FOR UNSPECIFIED VENT.

WATER ANALYSIS

PH..... 6.5
 SPECIFIC CONDUCTANCE..... 1570.
 TOTAL DISSOLVED SOLIDS... 1340.
 CHARGE IMBALANCE (% DIFF)... 3.3

ANALYSIS IN PPM

AG.... L 0.5	CO3.... N	LI....	S.... L 0.001
AL....	CR..... L 0.1	MG... 74.	
AS.... L 0.05	CS.....	MN... L 0.05	
AU....	CU..... L 0.01	MO... SE... L 0.001	
H.... 0.33	F..... 2.7	NA... 28.	SI02. 17.
BA.... L 0.5			
BE....	FE(TOT). N	NB... S04.. 400.	
BR....	GE.....	NI... L 0.1	
CA.... 300.	HCO3.... 880.	NO3.. N	
CA-MG.	MG..... 0.003	PB... L 0.1	
CO.... L 0.01			
CL.... 17.			
CO.... K..... 13.			
			ZN... L 0.02

ISOTOPES (0/00)

QUALIFICATION FIELD.... VENTS HAVE FLOWS FROM 4 TO 1893 L/MIN.
 REFERENCE AND INVESTIGATION
 COMPILED BY..... HEASLER, H. P.
 COMPILED AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00053

 GEOTHERM SAMPLE TITLE
 NAME OF SAMPLE SOURCE... DE MAKIS HOT SPRINGS
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE SW OF NW COORDINATES
 STATE..... WYOMING 52N 102W 03 LAT/LONG... 44-30.78 N 109-06.88 W
 UTM ZONE... +12

COUNTY..... PARK
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... CODY 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1968/02/15
 TEMPERATURE (C)..... 0 27.0
 DISCHARGE..... 0
 OTHER SAMPLE INFORMATION.. SEVEN VENTS. CHEMISTRY FOR VENT 2.
 WATER ANALYSIS

NORTHING... 4930365.
 649851.

PH..... 7.1
 SPECIFIC CONDUCTANCE..... 1960.
 CHARGE IMBALANCE (% DIFF)... 0.8
 ANALYSIS IN PPM

ISOTOPES (0/00)

AL.....	CR.....	MG...	63.		
H.....	F..... 2.0	NA...	33.	SI02.	18.
HE.....	FE(TOT).. 0.2	NB...		S04..	418.
CA..... 369.	HCO3.... 993.	NO3..	0.1		
CL..... 20.					
CO.....	K..... 16.				

QUALIFICATION FIELD..... VENTS FLOW FROM 4 TO 1893 L/MIN. TEMPERATURES RANGE FROM 27 TO 36 DEG C.
 REFERENCE AND LITERATURE CITED

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... RWECKENRIDGE AND HINCKLEY, 1978

RECORD 00054

GEO THERM SAMPLE FILE

GEO THERM FILE 101 0075052

NAME OF SAMPLE SOURCE... DE MARIS HOT SPRINGS

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... CODY 1162500

COORDINATES

LAT/LONG... 44-30.78 N 109-06.88 W
 UTM ZONE... +12
 NORTHING... 4930365.
 649851.

NAME OF SAMPLE SOURCE... DE MARIS HOT SPRINGS
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... CODY 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1970/08/14
 TEMPERATURE (C)..... 0 27.0
 DISCHARGE..... 0
 OTHER SAMPLE INFORMATION.. SEVEN VENTS. CHEMISTRY FOR VENT 1.
 WATER ANALYSIS

PH..... 7.0
 SPECIFIC CONDUCTANCE..... 1880.
 TOTAL DISSOLVED SOLIDS... 1320.
 CHARGE IMBALANCE (% DIFF)... 2.9
 ANALYSIS IN PPM

ISOTOPES (0/00)

AL.....	CR.....	MG...	66.		
H..... 0.55	F..... 1.9	NA...	30.	SI02.	19.
HE.....	FE(TOT).. 0.05	NB...		S04..	402.
CA..... 322.	HCO3.... 917.	NO3..	N		
CL..... 16.					
CO.....	K..... 18.				

QUALIFICATION FIELD..... VENTS FLOW FROM 4 TO 1893 L/MIN. TEMPERATURES RANGE FROM 27 TO 36 DEG C.
 REFERENCE AND LITERATURE CITED

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING

REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00055

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0075051

NAME OF SAMPLE SOURCE... DE MARIS HOT SPRINGS

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 52N 102W 03 SW OF NW
 STATE..... WYOMING
 COUNTY..... PARK
 GEOLOGIC PROVINCE..

LAT/LONG... 44-30.78 N 109-06.88 W
 UTM ZONE... +12
 NORTHING... 4930365.
 649851.

MAP REFERENCE..... CODY 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1968/02/15

TEMPERATURE (C)..... 0 28.0

DISCHARGE..... 0

OTHER SAMPLE INFORMATION.. SEVEN VENTS. CHEMISTRY FOR VENT 1.

WATER ANALYSIS

PH..... 6.9
 TOTAL DISSOLVED SOLIDS... 1970.
 CHARGE IMBALANCE (% DIFF)... 1.4

ANALYSIS IN PPM

AG....	CO3.....	LI....	S....	18.
AL....	CR.....	MG... 72.		
B.... 0.00	F..... 2.0	NA... 33.		
BE....	FE(TOT)..	NB... 422.	S04..	
CA.... 354.	HCO3.... 952.	NO3.. 0.1		
CL.... 21.				
CO....	K..... 16.			

ISOTOPES (0/001)

QUALIFICATION FIELD.... VENTS FLOW FROM 4 TO 1893 L/MIN. TEMPERATURES RANGE FROM 27 TO 36 DEG C.

REFERENCE AND INVESTIGATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00056

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0075047

NAME OF SAMPLE SOURCE... DE MARIS HOT SPRINGS

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 52N 102W 03 SW OF NW
 STATE..... WYOMING
 COUNTY..... PARK
 GEOLOGIC PROVINCE.. 41

LAT/LONG... 44-30.78 N 109-06.88 W
 UTM ZONE... +12
 NORTHING... 4930365.
 649851.

MAP REFERENCE..... CODY 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/08/18

TEMPERATURE (C)..... 0 36.0

DISCHARGE..... 0 1514. L/MIN

OTHER SAMPLE INFORMATION.. SEVEN VENTS. CHEMISTRY FOR UNSPECIFIED VENT.

WATER ANALYSIS

PH..... 7.0
 SPECIFIC CONDUCTANCE..... 1800.
 TOTAL DISSOLVED SOLIDS... 1730.
 CHARGE IMBALANCE (% DIFF)... 7.9

ANALYSIS IN PPM

ISOTOPES (0/001)

AG.... L 0.5	CO3..... N	LI...	S.... L 0.001
AL....	CR..... L 0.1	MG... 86.	
AS.... L 0.05	CS.....	MN... L 0.05	
AIH....	CU..... L 0.01	MO...	SE... L 0.001
B.... 0.49	F..... 2.9	NA... 47.	SI02. 21.
BA.... L 0.5			S04.. 500.
BE....	FE(TOT). N	NB...	
BR....	GE.....	NI... L 0.1	
CA.... 380.	HCO3.... 1200.	NO3.. N	
CA-MG.	HG..... 0.001	PB... L 0.1	
CD.... L 0.01			
CL.... 25.			
CO....	K..... 20.		
			ZN... L 0.02

QUALIFICATION FIELD.... OTHER VENTS FLOW FROM 4 TO 1893 L/MIN.
REFERENCE AND IDENTIFICATION
COMPILED BY..... HEASLER, H. P.
COMPILER AFFILIATION... UNIVERSITY OF WYOMING
REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00057

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020464

NAME OF SAMPLE SOURCE... MAMMOTH HOT SPRINGS - ANGEL TERRACE
LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-58. N 110-42. W

COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... PARK
MAP REFERENCE..... MAMMOTH 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTION..... 1930/00/00
SAMPLE NUMBER..... 36

GAS ANALYSIS

DATE/ANALYST..... 1930/00/00
ANALYSIS IN VOLUME %

ISOTOPIES (00/01)

CH4... N	H2S... N
C2H6..	N2... 2.35
CO2... 97.	O2... 0.55
H2... N	

OTHER ANALYTICAL DATA... CO = 0.

QUALIFICATION FIELD..... N2 = N2 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LANSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX... NEM-315
REFERENCE..... ALLEN AND DAY, 1935

RECORD 00058

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020470

NAME OF SAMPLE SOURCE... MAMMOTH HOT SPRINGS - CAVERN TERRACE
LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-58. N 110-42. W

COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... PARK
MAP REFERENCE..... MAMMOTH 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00 GUNTER AND MUSGRAVE
 SAMPLE NUMBER..... 116
 TEMPERATURE (C)..... 66.4

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE

ANALYSIS IN HOLE %

CH₄... 11
 C₂H₆... N₂... 0.16
 CO₂... 100... O₂... 0 0.08
 H₂... N

ISOLOPES (00/00)

QUALIFICATION FIELD..... 02 = 02 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-321
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00059

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020460

NAME OF SAMPLE SOURCE... MAMMOTH HOT SPRINGS - CLEOPATRA SPRING
 LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-58.5 N 110-42.6 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE..... MAMMOTH 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

SAMPLE NUMBER..... 4

OTHER SAMPLE INFORMATION.. TEMPERATURE = 71. DEGREES C. IN 1925, AND 69. DEGREES C. IN 1929.

WATER ANALYSIS

DATE/ANALYST..... 1930/00/00

ANALYSIS IN PPM

HE.... FE(TOT)... NB... S04... 487.
 CA.... 289... HCO₃.... 735.
 CL.... 181.

ISOLOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00060

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020459

NAME OF SAMPLE SOURCE... MAMMOTH HOT SPRINGS - CLEOPATRA SPRING
 LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-58.5 N 110-42.6 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE..... MAMMOTH 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1900/00/00

SAMPLE NUMBER..... VIII

WATER ANALYSIS

DATE/ANALYST..... 1888/00/00

ANALYSIS IN PPM

ISOLOPES (0/00)

AG....	CO3.....	LI...	2.3	S....	T
AL.... 4.9	CR.....	MG...	73.		
H.... 3.5	F.....	NA...	130.	S102..	52.
HE....	FE(TOT)..	NB...		S04...	527.
HI....	GA.....	NH4..	0.63		
CA.... 308.					
CL.... 175.					
CO....	K.....	SI.			

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH4..	T	H2S..	N
C2H6.		N2...	4.99
CO2..	93.	O2...	1.7
H2...	0.7		

ISOTOPES (00/01)

OTHER ANALYTICAL DATA... H2O ANAL: AS203 = 3.1 PPM.
 QUALIFICATION FIELD... AL = AL + FE + H CALCULATED FROM H2O3.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-311
 REFERENCE..... ALLEN AND DAY, 1935 (GAS ANAL.); H2O ANAL: GOOCH AND WHITFIELD, 1888

RECORD 00061

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020471

NAME OF SAMPLE SOURCE... MAMMOTH HOT SPRINGS - CUPID SPRING
 LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-58. N 110-42. W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... MAMMOTH 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00 GUNTER AND MUSGRAVE
 SAMPLE NUMBER..... 117
 TEMPERATURE (C)..... 71.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MULE %

ISOTOPES (00/01)

AN..	N		
CH4..	N		
C2H6.		N2...	0.1
CO2..	100.	O2...	N
H2...	N		

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-322
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00062

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020465

NAME OF SAMPLE SOURCE... MAMMOTH HOT SPRINGS - HYNEN TERRACE
 LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-58. N 110-42. W

COUNTRY..... UNITED STATES
 STATE..... WYOMING

COUNTY..... PARK
 MAP REFERENCE..... MAMMOTH 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1970/00/00
 SAMPLE NUMBER..... 37
 TEMPERATURE (C)..... 70.5

WATER ANALYSIS

DATE/ANALYST..... ALLEN, E.T.
 CHARGE (IMBALANCE (A DIFF))... 0.0
 ANALYSIS IN PPM

AD....	CO3..... N	LI...	S.... N	ISOTOPES (002001)	
AL....	CP.....	MG... 73.			
AR....	F.....	NA... 133.	SI02. 29.		
AS....	FE (TOT)...	NB...	S04.. 519.		
CA.... 308.	HCO3.... 795.				
CL.... 170.					
CO....	N..... 57.				

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH4... N			
C2H6... 99.	N2... 0 0.80		
H2... N	O2... 0.1		

ISOTOPES (002001)

OTHER ANALYTICAL DATA... H2O ANAL: S2O3 = 6. PPM. GAS ANAL: CO = 0. PPM.

QUALIFICATION FIELD..... N2 = N2 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... MEN-316
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00063

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... MAMMOTH HOT SPRINGS - JUPITER TERRACE
 LOCATION

GEOHERM FILE ID: 0020467

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... MAMMOTH 1162500

COORDINATES

LAT/LONG... 44-58. N 110-42. W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1970/00/00
 TEMPERATURE (C)..... 71.

GAS ANALYSIS

DATE/ANALYST..... 1930/00/00

ANALYSIS IN VOLUME %

CH4...	H2S... N		
C2H6... 100.	H2... 0 0.35		
CO2... 100.	O2... 0.1		

ISOTOPES (002001)

QUALIFICATION FIELD..... N2 = N2 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... MEN-316
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00064

GEOHERM SAMPLE FILE

GEOHERM FILE 101 0020466

NAME OF SAMPLE SOURCE... MAMMOTH HOT SPRINGS - MAIN TERRACE
 LOCATION... TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-58. N 110-42. W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK

MAP REFERENCE... MAMMOTH 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1929/00/00
 SAMPLE NUMBER..... 38
 TEMPERATURE (C)..... 73.

WATER ANALYSIS

DATE/ANALYST..... ALLEN, E. T.

ANALYSIS IN PPM

HE.... FE (TOT)..... NH.... S04... 490.
 CA.... 346. HCO3.... H45.
 CL.... 176.

ISOTOPES (0020)

GAS ANALYSIS

DATE/ANALYST..... 1929/00/00 ALLEN, E. T.

ANALYSIS IN VOLUME %

CH4... 1 H2S... N
 C2H6... 0 N2... 0 1.65
 CO2... 94. O2... 0.45
 H2... 1

ISOTOPES (0020)

QUALIFICATION FIELD..... N2 = N2 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-117
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00065

GEOHERM SAMPLE FILE

GEOHERM FILE 101 0020473

NAME OF SAMPLE SOURCE... MAMMOTH HOT SPRINGS - MINERVA SPRINGS
 LOCATION... TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-58. N 110-42. W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK

MAP REFERENCE... MAMMOTH 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1964/00/00
 TEMPERATURE (C)..... 73.

OTHER SAMPLE INFORMATION.. WATER ISSUES FROM A WHITE TERRACE.

GAS ANALYSIS

DATE/ANALYST..... 1964/00/00

ANALYSIS IN MOLE %

AR... 0.0246 H2S... N
 CH4... 1 H2... 1.6
 C2H6... 0 O2... 0.5
 CO2... 94.
 HE... 0.0005

ISOTOPES (0020)OTHER ANALYTICAL DATA... HE = $3.4 \times 10(-5)$; KR = $5. \times 10(-6)$; XE = $0. \times 10(-7)$; PH=7.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILED CROSS INDEX... MEH-324
 REFERENCE..... HAZON AND WASSERBURG, 1965

RECORD 00066

GEOOTHERM SAMPLE TITLE

GEOOTHERM FILE 101 0020472

NAME OF SAMPLE SOURCE... MAMMOTH HOT SPRINGS - NEW HIGHLAND TERRACE
 LOCATION

COORDINATES

LAT/LONG... 44-58. N 110-42. W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE..... MAMMOTH 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00 GUNTER AND MUSGRAVE

TEMPERATURE (C)..... 74.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

ISOTOPES (00201)

AR... 4

CH₄... 4H₂S... NC₂H₆...N₂... NCO₂... 100.O₂... NH₂... 4

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILED CROSS INDEX... MEH-323
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00067

GEOOTHERM SAMPLE TITLE

GEOOTHERM FILE 101 0020469

NAME OF SAMPLE SOURCE... MAMMOTH HOT SPRINGS - PALETTE TERRACE
 LOCATION

COORDINATES

LAT/LONG... 44-58. N 110-42. W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE..... MAMMOTH 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00 GUNTER AND MUSGRAVE

SAMPLE NUMBER..... 115

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

ISOTOPES (00201)

CH₄... 4C₂H₆...N₂... 0.55CO₂... 99.O₂... 0 0.33H₂... 4QUALIFICATION FIELD..... O₂ = O₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILED CROSS INDEX... MEH-320

REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00068

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020468

NAME OF SAMPLE SOURCE... MAMMOTH HOT SPRINGS - UNNAMED SPRING
LOCATION..... TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-58. N 110-42. W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE..... MAMMOTH 1162500

OTHER LOCALITY INFORMATION: IN SQUIRREL SPRINGS GROUP.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

SAMPLE NUMBER..... 40

GAS ANALYSIS

DATE/ANALYST..... 1930/00/00

ANALYSIS IN VOLUME %

CH₄... 0.1H₂S... NC₂H₆...N₂... U 1.7CO₂... 90.O₂... 0.05H₂... UQUALIFICATION FIELD..... N₂ = N₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-319

REFERENCE..... ALLEN AND DAY, 1935

ISOTHERMS (0020)

RECORD 00069

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020463

NAME OF SAMPLE SOURCE... MAMMOTH HOT SPRINGS - UNNAMED SPRING
LOCATION..... TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-58. N 110-42. W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE..... MAMMOTH 1162500

OTHER LOCALITY INFORMATION: NEAR WHITE ELEPHANT SPRING.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

SAMPLE NUMBER..... 35

GAS ANALYSIS

DATE/ANALYST..... 1930/00/00

ANALYSIS IN VOLUME %

CH₄... 0.25H₂S... NC₂H₆...N₂... U 0.75CO₂... 99.O₂... 0.1H₂... U

OTHER ANALYTICAL DATA... CO = 0.

QUALIFICATION FIELD..... N₂ = N₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-319

REFERENCE..... ALLEN AND DAY, 1935

ISOTHERMS (0020)

RECORD 00070

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... MAMMOTH HOT SPRINGS - UNNAMED SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... MAMMOTH 1162500
 TOWNSHIP=RANGE
 COORDINATES
 LAT/LONG... 44-58. N 110-42. W
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1900/00/00
 SAMPLE NUMBER..... X
 GAS ANALYSIS
 ANALYSIS IN VOLUME %
 CH₄.. H
 C₂H₆.. H₂S.. 0.46
 CO₂.. 99. H₂.. 0.63
 H₂.. 0.17 O₂.. 0.06
 ISOTOPES (0070)
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILED CROSS INDEX... NEH-313
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00071

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... MAMMOTH HOT SPRINGS - UNNAMED SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... MAMMOTH 1162500
 TOWNSHIP=RANGE
 COORDINATES
 LAT/LONG... 44-58. N 110-42. W
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1900/00/00
 SAMPLE NUMBER..... IX
 OTHER SAMPLE INFORMATION.. SULFUR SPRING.
 GAS ANALYSIS
 ANALYSIS IN VOLUME %
 CH₄.. H
 C₂H₆.. H₂S.. N
 CO₂.. 99. H₂.. 0.67
 H₂.. N O₂.. 0.66
 ISOTOPES (0071)
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILED CROSS INDEX... NEH-312
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00072

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - "BATH-TUB" SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 TOWNSHIP=RANGE
 COORDINATES
 LAT/LONG... 44-43. N 110-43. W

STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 OTHER SAMPLE INFORMATION.. CONSTRUCTION WORK NEARBY.

WATER ANALYSIS

DATE/ANALYST..... 1930/00/00

ANALYSIS IN PPM

AG.....	CO3.....	LI....	S....	N	ISOTOPES (02/001)
AL..... 48.	CR.....	MG.... 1.	SI02..	327.	
BA.....	F.....	NA.... 274.	S04..	813.	
BA.....	FE+J..... 31.	NB....			
BE.....	FE(TOT)..	NH4.. 46.			
BI.....	GA.....				
CA.... 11.	HCO3.... N				
CL.... 416.					
CO....	K..... 16.				

OTHER ANALYTICAL DATA... H = 5.8 PPM; FE 2+ = 6. PPM; S2O3 = 0. PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00073

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020444

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - "BATH-TUB" SPRING
 LOCATION..... THERMAL RANGE

COORDINATES

LAT/LONG... 44-43. N 110-43. W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1928/00/00

WATER ANALYSIS

DATE/ANALYST..... 1928/00/00

ANALYSIS IN PPM

AL....	CR.....	MG.... 1.	SI02..	503.	ISOTOPES (02/001)
BA..... 0.5.3	F.....	NA.... 517.	S04..	97.	
BA.....	FE+J..... 1	NB....			
BE.....	FE(TOT)..	NH4.. 19.			
BI.....	GA.....				
CA.... 6.					
CL.... 119.					
CO....	K..... 52.				

OTHER ANALYTICAL DATA... H = 0. PPM; FE 2+ = 0. PPM; S2O3 = 1. PPM

QUALIFICATION FIELD... B CALCULATED FROM B2O3.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00074

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020446

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - BATHTUB SPRING
 LOCATION... TOWNSHIP-RANGE

COORDINATES
 LAT/LONG... 44-43. N 110-43. W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 62
 TEMPERATURE (C)..... 93.

GAS ANALYSIS
 DATE/ANALYST..... 1965/00/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %

ISOTOPES (0070)

CH₄... 0.00
 C₂H₆... N₂... 2.23
 CO₂... 97. O₂... 0 0.41
 H₂... L 0.4

OTHER ANALYTICAL DATA... PH = 4.4.
 QUALIFICATION FIELD... O₂ = O₂ + AR.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-298
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00075

 GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0020426

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - BLACK GROWLER
 LOCATION... TOWNSHIP-RANGE

COORDINATES
 LAT/LONG... 44-43. N 110-43. W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 54
 OTHER SAMPLE INFORMATION... STEAM VENT.

GAS ANALYSIS
 DATE/ANALYST..... 1965/00/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %

ISOTOPES (0070)

CH₄... 0
 C₂H₆... N₂... 2.81
 CO₂... 97. O₂... 1
 H₂... L 0.4

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-293
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00076

 GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0020425

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - BLACK GROWLER
 LOCATION... TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500

LAT/LONG... 44-43. N 110-43. W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1970/00/00

SAMPLE NUMBER..... 1

OTHER SAMPLE INFORMATION.. STEAM VENT.

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH ₄ ..	0.1	H ₂ S..	2.5
C ₂ H ₆ ..		N ₂ ..	0.45
CO ₂ ..	97.	O ₂ ..	N
H ₂ ..	0.4		

ISOTOPES (0070)

OTHER ANALYTICAL DATA... STEAM/GAS = 250.

QUALIFICATION FIELD..... N2 = N2 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-288
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00077

 GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0020449

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - BLACK HERON CAULDRON

LOCATION..... TOWNSHIP-RANGE

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE..... NORRIS JUNCTION 1162500

COORDINATES

LAT/LONG... 44-43. N 110-42. W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00

SAMPLE NUMBER..... 68

TEMPERATURE (C)..... 93.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

AR...	0.15	N ₂ ..	3.31
CH ₄ ..	0.38	O ₂ ..	3.2
C ₂ H ₆ ..			
CO ₂ ..	85.		
H ₂ ..	1		

ISOTOPES (0070)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-301
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00078

 GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0020431

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - CINDER POOL (NO. 17)

LOCATION..... TOWNSHIP-RANGE

COUNTRY..... UNITED STATES

STATE..... WYOMING

COORDINATES

LAT/LONG... 44-44. N 110-43. W

COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500
 OTHER LOCALITY INFORMATION: ONE-HUNDRED-SPRING PLAIN.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 SAMPLE NUMBER..... 7

WATER ANALYSIS

ANALYSIS IN PPM

AG.....	CO3..... N	LI....	S....	N	<u>ISOTOPES (0200)</u>	
AL..... 3.	CR.....	MG....	2.			
AS..... 0.27						
H..... 0.59	F.....	NA....	465.	SI02.	414.	
HA.....	FE+3..... N					
HE.....	FE(TOT)..... 2.	NB....		SO4..	188.	
HI.....	GA.....	NH4..	28.			
CA..... 4.	HCO3..... N					
CL..... 109.						
CO....	K..... 91.					

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH4... 0.1	H2S... 0.85	<u>ISOTOPES (0020)</u>	
C2H6... 0	H2... 0 1.40		
CO2... 98.	O2... 0.05		
H2... N			

OTHER ANALYTICAL DATA... H2O ANAL: H = 0.07 PPM.

QUALIFICATION FIELD..... GAS ANAL: N2 = H2 + AR. H2O ANAL: B CALCULATED FROM H2O21 AS CALCULATED FROM AS04.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILED CROSS INDEX... NEM-286
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00079

GEO THERM SAMPLE FILE

GEO THERM FILE 101 0020434

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - CONGRESS POOL

LOCATION..... THERMAL RANGE

COORDINATES

LAT/LONG... 44-43.80 N 110-42.00 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE..... NORRIS JUNCTION 1162500

OTHER LOCALITY INFORMATION: SW OF LAKE NUPHART NE OF NORRIS MUSEUM SE OF PORCELAIN BASIN.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

SAMPLE NUMBER..... 87

WATER ANALYSIS

ANALYSIS IN PPM

AG.....	CO3..... N	LI....	S....	N	<u>ISOTOPES (0200)</u>	
AL..... 3.	CR.....	MG....	3.			
H.....	F.....	NA....	458.	SI02.	509.	
HE.....	FE(TOT)..... U R.	NH... 21.		SO4..	503.	
HI.....	GA.....					
CA..... 16.	HCO3..... N					
CL..... 619.						
CO....	K..... 108.					

OTHER ANALYTICAL DATA... H = 1. PPM.

QUALIFICATION FIELD..... FE 2.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00080

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020421

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - COHAL SPRING

LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-43. N 110-42. W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE..... NORRIS JUNCTION 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1900/00/00

SAMPLE NUMBER..... VI

GAS ANALYSIS

ANALYSIS IN VOLUME %

ISOTOPES (00/0)

CH₄.. 1H₂S.. NC₂H₆..N₂... 45.54CO₂.. 44.O₂... 6.3H₂... 6.0

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-278
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00081

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020422

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - ECHINUS GEYSER

LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-43.58 N 110-42.42 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE..... NORRIS JUNCTION 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1900/00/00

SAMPLE NUMBER..... VII

GAS ANALYSIS

ANALYSIS IN VOLUME %

ISOTOPES (00/0)

CH₄.. 0.91H₂S.. NC₂H₆..N₂... 2.74CO₂.. 95.O₂... 0.6H₂... 1.1

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-279
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00082

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020440

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - EMERALD SPRING

LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-43. N 110-43. W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE..... NORRIS JUNCTION 1162500

OTHER LOCALITY INFORMATION: APPROX. 650 FT. SOUTH OF "BLACK GROWLER".

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00

SAMPLE NUMBER..... 57

TEMPERATURE (C)..... 88.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER, R.O. AND MUSGRAVE, W.C.

ANALYSIS IN MOLE %

CH₄... 3.4C₂H₆...CO₂... 33.H₂... 4.1N₂... 58.09O₂... 0 1.6

ISOTOPES (00/00)

DEL D OF CH₄..... -24.1

OTHER ANALYTICAL DATA... PH = 3.9

QUALIFICATION FIELD..... 02 = 02 + ARI U90 FROM GUNTER AND MUSGRAVE, 1971.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEM-294

REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00083

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020430

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - GABLE SPRING (NO. 32)

LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-43. N 110-42. W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE..... NORRIS JUNCTION 1162500

OTHER LOCALITY INFORMATION: SOUTHERN AREA, NORTH OF GRAY LAKES.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1970/00/00

SAMPLE NUMBER..... 6

WATER ANALYSIS

ANALYSIS IN PPM

AG.....

AL..... 2.

H..... 3.0

HA.....

HE.....

HI.....

CA..... 5.

CL..... 48.5.

CO₃..... N

CH.....

F.....

FE+3..... N

FE(TOT). 4.

GA.....

HCO₃..... N

K..... 79.

LI.....

MG..... 3.

NA..... 301.

FE+3..... N

NB.....

NH₄.. N

S.... N

SI.....

SI02. 447.

SO₄.. 187.

ISOTOPES (0/00)

WATER ANALYSIS

ANALYSIS IN PPM

AG.....

AL..... 2.

H..... 3.0

HA.....

HE.....

HI.....

CA..... 5.

CL..... 48.5.

CO.....

GAS ANALYSIS

ANALYSIS IN VOLUME %

ISOTOPES (00/00)

CH4.. 0.3 H2S.. N
 CPMH.. RM. N2... 9.4
 COP... 02... 1.3
 H2... 1.2

OTHER ANALYTICAL DATA... H2O ANAL: H = 1.4 PPM.
 QUALIFICATION FIELD... N2 = N2 + AR. H2O ANAL: H CALCULATED FROM H2O2.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-285
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00084

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - GEYSER NO. 27
 LOCATION TOWNSHIP=RANGE
 COORDINATES
 LAT/LONG... 44-43.56 N 110-42.40 W
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500
 OTHER LOCALITY INFORMATION: SOUTH OF ECHINUS GEYSER.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 SAMPLE NUMBER..... 27
 OTHER SAMPLE INFORMATION.. IRREGULAR SINTER-LINED CRATER.

WATER ANALYSIS
 ANALYSIS IN PPM
 AG.... LI... S.... N
 AL.... 5. CR.... MG... 1.
 H.... 4 0.78 F.... NA... 89. SI02. 464.
 RA.... FE+3... N
 HE.... FE(TOT). 18. NB... 504.. 637.
 HI.... GA..... NM4.. 24.
 CA.... 5. HCO3.... N
 CL.... 27.
 CO.... K..... 75.

OTHER ANALYTICAL DATA... H = 5.23 PPM.
 QUALIFICATION FIELD... H CALCULATED FROM H2O2.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00085

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - GREEN DRAGON SPRING
 LOCATION TOWNSHIP=RANGE
 COORDINATES
 LAT/LONG... 44-43. N 110-43. W
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 59

TEMPERATURE (C)..... R4.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER, B.O. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH ₄ ..	0.4		
C ₂ H ₆ ..		N ₂ ...	4.88
CO ₂ ..	94.	O ₂ ...	0 0.28
N ₂ ...	T		

ISOTOPES (0/00)

OTHER ANALYTICAL DATA... PH = 3.

QUALIFICATION FIELD..... 02 = 02 + AM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-296
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00086

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020420

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - IRIS SPRING (NO. 71)

LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-44. N 110-42. W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE..... NORRIS JUNCTION 1162500

OTHER LOCALITY INFORMATION: PORCELAIN BASIN.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

WATER ANALYSIS

ANALYSIS IN PPM

ISOTOPES (0/00)

AG.....		CO ₃ N	LI.....	S.....	N
AL.....	3.	CR.....	MG.....	2.	
B.....	0 4.0	F.....	NA.....	336.	S102. 476.
HA.....		FE+3..... N			
HE.....		FE(TOT). 2.	NB.....	504..	9b.
HI.....		GA.....	NH ₄ ...	2.	
CA.....	4.	HCO ₃ N			
CL.....	568.				
CO.....		K.....	91.		

OTHER ANALYTICAL DATA... H = 0.72 PPM.

QUALIFICATION FIELD..... B CALCULATED FROM 0203.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00087

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020441

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - PEARL GEYSER

LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-43. N 110-43. W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE..... NORRIS JUNCTION 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 58
 TEMPERATURE (C)..... 85.
 GAS ANALYSIS
 DATE/ANALYST..... 1965/00/00 GUNTER, R.O. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH ₄ ..	0.06	N ₂ ..	14.37
C ₂ H ₆ ..		O ₂ ..	0 4.4
CO ₂ ..	81.		
H ₂ ..	T		

ISOTOPES (00/0)

OTHER ANALYTICAL DATA... PH = 6.5.
 QUALIFICATION FIELD... O₂ = O₂ + AR.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-295
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00088

 GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0020428

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - PORCELAIN BASIN NO. 24

LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-44. N 110-43. W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK

MAP REFERENCE..... NORRIS JUNCTION 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00
 SAMPLE NUMBER..... 3

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH ₄ ..	0.25	H ₂ S..	N
C ₂ H ₆ ..		N ₂ ..	0 4.4
CO ₂ ..	94.	O ₂ ..	0.9
H ₂ ..	0.9		

ISOTOPES (00/0)QUALIFICATION FIELD... N₂ = N₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-282
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00089

 GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0020427

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - PORCELAIN BASIN NO. 70

LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-44. N 110-43. W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK

MAP REFERENCE..... NORRIS JUNCTION 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00
 SAMPLE NUMBER..... 2

WATER ANALYSIS

CHARGE IMBALANCE (% DIFF)... 0.8

ANALYSIS IN PPM

AG....	CO3..... N	LI....	S....	T	
AL.... N	CR.....	MG....	1.		
H..... U 4.7	F.....	NA....	433.	SI02.	617.
HA....	FE+3.... N				
HE....	FE(TOT). T	NB....	S04..	50.	
HI....	GA.....	NH4... N			
CA.... 3.	HCO3.... 36.				
CL.... 715.					
CO....	K..... 100.				

ISOTOPES (0/00)

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH4..	0.55	H2S..	N
C2H6.		N2...	U 6.55
CO2..	89.	O2...	1.4
H2...	2.3		

ISOTOPES (00/01)

OTHER ANALYTICAL DATA... CO = 0.

QUALIFICATION FIELD... N2 = N2 + AR. (GAS ANAL); H2O ANAL; B CALCULATED FROM B2O2.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEM-281
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00090

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 1

GEO THERM FILE ID: 0020403

LOCATION

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-43. N 110-42. W

MAP REFERENCE..... NORRIS JUNCTION 1162500

OTHER LOCALITY INFORMATION: EASTERN EDGE OF BASIN IN SOUTH SECTION.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

OTHER SAMPLE INFORMATION.. LARGE MUD SPRING.

WATER ANALYSIS

ANALYSIS IN PPM

AG....	CO3..... N	LI....	S....	N	
AL.... 5.	CR.....	MG....	1.		
H..... U 4.4	F.....	NA....	241.		
HA....	FE+3.... N				
HE....	FE(TOT). 6.	NB....	S04..	390.	
HI....	GA.....	NH4... N	78.		
CA.... 8.	HCO3.... N				
CL.... 366.					
CO....	K..... 64.				

ISOTOPES (0/00)

OTHER ANALYTICAL DATA... H = 0.04 PPM.

QUALIFICATION FIELD... H CALCULATED FROM B2O2.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00091

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... MORRIS GEYSER BASIN - SPRING NO. 15

GEO THERM FILE ID: 0020409

LOCATION

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE..... MORRIS JUNCTION 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

WATER ANALYSIS

ANALYSIS IN PPM

AG....		CO3..... N	LI... 3.	S.... N	
AL.... 1.		CR.....	MG... 2.		
AS.... 0 5.9					
B.... 0 3.9		F.....	NA... 226.	SI02.. 345.	
HA....		FE+3..... 2.			
HE....		FE(TOT)..	NB... 504..	192.	
HI....		GA.....	NH4... 4.		
CA.... 3.		HCO3..... N			
CL.... 379.					
CO....		K..... 77.			

ISOTOPES (0/00)

OTHER ANALYTICAL DATA... H = 1.85 PPM; FE 2+ = 2. PPM.

QUALIFICATION FIELD..... AS CALCULATED FROM AS04; B CALCULATED FROM B202.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... ALLEN AND DAY, 1935

RECORD 00092

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... MORRIS GEYSER BASIN - SPRING NO. 18

GEO THERM FILE ID: 0020410

LOCATION

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE..... MORRIS JUNCTION 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

WATER ANALYSIS

ANALYSIS IN PPM

AG....		CO3..... N	LI... 1.	S.... N	
AL.... 4.		CR.....	MG... 152.	SI02.. 274.	
B.... 0 1.2		F.....			
HA....		FE+3..... N	NB... 504..	273.	
HE....		FE(TOT).. 5.	NH4... N		
HI....		GA.....			
CA.... 5.		HCO3..... N			
CL.... 111.					
CO....		K..... 52.			

ISOTOPES (0/00)

OTHER ANALYTICAL DATA... H = 0.33 PPM, AS02 = 0.

QUALIFICATION FIELD..... B CALCULATED FROM B202.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00093

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020411

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 19

LOCATION TOWNSHIP-RANGE

COORDINATES
LAT/LONG... 44-43. N 110-42. W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

WATER ANALYSIS

CHANGE IMBALANCE (% DIFF)... 4.0

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO ₃ N	LI... 2.	S.... N
AL.... 2.	CR.....	MG... 1.	
AS.... 0 0.05			
B.... 0 3.9	F.....	NA... 169.	SI02. 297.
BA....	FE+3.... N		
BE....	FE(TOT). 3.	NB... 8.	S04.. 252.
BI....	GA.....	NH4.. 8.	
CA.... 2.	MCO ₃ 15.		
CL.... 150.			
CO....	K..... 42.		

OTHER ANALYTICAL DATA... M = U. PPM: S203 = 1. PPM.

QUALIFICATION FIELD... AS CALCULATED FROM AS04; B CALCULATED FROM B202.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00094

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020424

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 20

LOCATION TOWNSHIP-RANGE

COORDINATES
LAT/LONG... 44-43.75 N 110-42.47 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500

OTHER LOCALITY INFORMATION: EAST OF MUSEUM.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

OTHER SAMPLE INFORMATION.. VERY MUDDY SPRING.

WATER ANALYSIS

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO ₃ N	LI... 3.	S.... N
AL.... 53.	CR.....	MG... 32.	SI02. 276.
B.... 0 1.9	F.....		
BA....	FE+3.... N		
BE....	FE(TOT). 64.	NB... 44.	S04.. 1584.
BI....	GA.....	NH4.. 44.	

CA.... 6. HCO3.... 11
 CL.... 1.
 CO.... K..... 39.
 OTHER ANALYTICAL DATA... H = 19.3 PPM.
 QUALIFICATION FIELD... B CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00095

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020412

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 21
 LOCATION TOWNSHIP=RANGE

COORDINATES
 LAT/LONG... 44-43. N 110-42. W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00

WATER ANALYSIS

CHANGE IMBALANCE (% DIFF)... 0.3

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO3.... N				
AL.... N	CR.....	MG...	1.		
H.... 0.5.3	F.....	NA...	517.	SI02.	503.
HA....	FE+3.... N				
HE....	FE(TOT).	NH...		SO4..	97.
HI....	GA.....	NH4...	19.		
CA.... 6.	HCO3.... 19.				
CL.... 810.					
CO....	K..... 52.				

OTHER ANALYTICAL DATA... H = 0. PPM; TRACE OF FE 2+; S203 = 1. PPM.
 QUALIFICATION FIELD... B CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00096

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020413

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 23
 LOCATION TOWNSHIP=RANGE

COORDINATES
 LAT/LONG... 44-43. N 110-42. W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00

WATER ANALYSIS

CHANGE IMBALANCE (% DIFF)... 2.2

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO3.... N	LI...		S.... N
AL.... 11	CR.....	MG... T		

H.....	0 4.5	F.....		NA...	437.	SI02.	717.
HA....		FE+3....	N				
HE....		FE(TOT)..		NB...		S04..	41.
HI....		GA.....		NH4..	3.		
CA....	6.	HCO3....	56.				
CL....	742.						
CO....		K.....	107.				

OTHER ANALYTICAL DATA... H = 0. PPM; TRACE OF FE 2+1 S2O3 = 4. PPM.

QUALIFICATION FIELD... H CALCULATED FROM H2O2.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... ALLEN AND DAY, 1935

RECORD 00097

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020436

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 25

LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-43.81 N 110-42.03 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE..... NORRIS JUNCTION 1162500

OTHER LOCALITY INFORMATION: PORCELAIN BASIN NEAR CONGRESS POOL.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

SAMPLE NUMBER..... 4

WATER ANALYSIS

ANALYSIS IN PPM

AG....		CO3.....	N	LI...		S....	N	<u>ISOTOPES (0/00)</u>
AL....	N	CR.....		MG... T				
H.....		F.....		NA... 16.	SI02.	195.		
HE....		FE(TOT)..	2.	NH...	S04..	158.		
CA....	N	HCO3....	N					
CL....	9.							
CO....		K.....	11.					

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH4..	0.2	H2S..	0.75	<u>ISOTOPES (00/0)</u>
C2H6.		N2... U	1.6	
CO2..	97.	O2...	0.05	
H2... H				

OTHER ANALYTICAL DATA... H2O ANAL: H = 2. PPM.

QUALIFICATION FIELD... N2 = N2 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEM-283

REFERENCE..... ALLEN AND DAY, 1935

RECORD 00098

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020414

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 30

LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-43. N 110-42. W

COUNTRY..... UNITED STATES

STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500
 OTHER LOCALITY INFORMATION: EAST EDGE OF BASIN, SOUTH OF CURAL SPRING.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00
 OTHER SAMPLE INFORMATION.. LARGE DEEP POOL.

WATER ANALYSIS

ANALYSIS IN PPM

AG.....		CO3..... N	LI...	S.... N	<u>ISOTOPES (0/00)</u>	
AL..... 2.		CR.....	MG... 3.			
H..... 0 3.1		F.....	NA... 270.	SI02.	406.	
HA.....		FE+3..... N				
HE.....		FE(TOT). 7.	NH...	S04..	375.	
HI.....		GA.....	NH4.. 9.			
CA..... 5.		HCO3..... N				
CL..... 399.						
CO.....		K..... 75.				

OTHER ANALYTICAL DATA... H = 3.97 PPM.

QUALIFICATION FIELD... B CALCULATED FROM B202.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00099

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020415

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 33
 LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-43. N 110-42. W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE..... NORRIS JUNCTION 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

WATER ANALYSIS

ANALYSIS IN PPM

AG.....		CO3..... N	LI...	S.... N	<u>ISOTOPES (0/00)</u>	
AL..... 1.		CR.....	MG... 2.			
AS..... 0 0.49		F.....	NA... 48.	SI02.	303.	
H..... 0 1.2		FE+3..... N				
HA.....		FE(TOT). 3.	NH...	S04..	1105.	
HE.....		GA.....	NH4.. 342.			
HI.....		HCO3..... N				
CA..... 4.						
CL..... 5.						
CO.....		K..... 30.				

OTHER ANALYTICAL DATA... H = 0.6 PPM.

QUALIFICATION FIELD... AS CALCULATED FROM AS041 & CALCULATED FROM B202.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00100

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020404

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 4
 LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-43. N 110-42. W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

WATER ANALYSIS

CHANGE IMBALANCE (% DIFF)... 0.5

ANALYSIS IN PPM

AG....	CO3..... N	LI... 5.	S.... 1.	<u>ISOTOPES (0/00)</u>
AL.... 2.	CR.....	MG... T		
H.... 0 5.9	F.....	NA... 446.	SI02. 212.	
HA....	FE+3..... N			
HE....	FE(TOT). 2.	NH... 504..	35.	
HI....	GA.....	NH4.. N		
CA.... 6.	HCO3..... 30.			
CL.... 740.				
CO....	K..... 70.			

OTHER ANALYTICAL DATA... H = 0. PPM; S2O3 = 1. PPM.

QUALIFICATION FIELD... B CALCULATED FROM B202.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00101

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020405

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 5
 LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-43. N 110-42. W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

WATER ANALYSIS

ANALYSIS IN PPM

AG....	CO3..... N	LI... 5.	S.... N	<u>ISOTOPES (0/00)</u>
AL.... 1.	CR.....	MG... 2.		
H.... 0 3.3	F.....	NA... 232.	SI02. 368.	
HA....	FE+3..... N			
HE....	FE(TOT). 4.	NH... 504..	177.	
HI....	GA.....	NH4.. N		
CA.... 4.	HCO3..... N			
CL.... 355.				
CO....	K..... 54.			

OTHER ANALYTICAL DATA... H = 1.61 PPM.

QUALIFICATION FIELD... B CALCULATED FROM B202.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00102

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020406

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 6

LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-43. N 110-42. W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE..... NORRIS JUNCTION 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

WATER ANALYSIS

CHANGE IMBALANCE (% DIFF)... 1.0

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO3..... N	LI...	6.	S....	1
AL.... N	CR.....	MG...	1.		
AS.... 0 1.5		NA...	417.	SI02.	492.
B.... 0 4.0	F.....				
BA....	FE+3.... N	NB...		S04..	40.
BE....	FE(TOT). 2.	NH4.. N			
BI....	GA.....				
CA.... 7.	HCO3.... 30.				
CL.... 688.					
CO....	K..... 59.				

OTHER ANALYTICAL DATA... H = 0. PPM; S2O3 = 2. PPM.

QUALIFICATION FIELD... AS CALCULATED FROM AS04; B CALCULATED FROM B202.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00103

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020417

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 61

LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-43. N 110-43. W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE..... NORRIS JUNCTION 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

WATER ANALYSIS

CHANGE IMBALANCE (% DIFF)... 0.5

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO3..... N	LI...		S....	N
AL.... N	CR.....	MG...	1.		
B.... 0 5.3	F.....	NA...	491.	SI02.	530.
BA....	FE+3.... N				
BE....	FE(TOT). 2.	NB...		S04..	36.
BI....	GA.....	NH4.. N			
CA.... 3.	HCO3.... 56.				

CL.... 802. K..... 101.
 CO....
 OTHER ANALYTICAL DATA... H = 0. PPM; TRACE OF FE 2+ S203 = 4. PPM.
 QUALIFICATION FIELD... B CALCULATED FROM 8202.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00104

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020418

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 62
 LOCATION TOWNSHIP=RANGE COORDINATES
 COUNTRY..... UNITED STATES LAT/LONG... 44-44. N 110-42. W
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1:62500
 OTHER LOCALITY INFORMATION: NORTHEAST OF OPAL SPRING, JUST EAST OF HIGHWAY.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00
 OTHER SAMPLE INFORMATION.. LARGE SPRING.

WATER ANALYSIS

ANALYSIS IN PPM

ANALYSIS IN PPM		ISOTOPES (0/00)			
AG....	CO3.... N	LI...	S....	N	
AL.... 2.	CR.....	MG...	1.		
H.... 0 0.78	F.....	NA...	127.	SI02.	321.
HA....	FE+3.... 21.				
HE....	FE(TOT). U 2.	NB...	S04..	586.	
HI....	UA.....	NH4..	6.		
CA.... 4.	HCO3.... N				
CL.... 178.					

CO.... K..... 48.
 OTHER ANALYTICAL DATA... H = 8.9 PPM.
 QUALIFICATION FIELD... B CALCULATED FROM 8202; FE (TOT) IS FE2+.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00105

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020419

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 68
 LOCATION TOWNSHIP=RANGE COORDINATES
 COUNTRY..... UNITED STATES LAT/LONG... 44-44. N 110-42. W
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

WATER ANALYSIS

ANALYSIS IN PPM

ANALYSIS IN PPM		ISOTOPES (0/00)			
AG....	CO3.... N	LI...	5.	S....	N
AL.... 4	CR.....	MG...	2.		
H.... 0 5.4	F.....	NA...	355.	SI02.	391.

HA.... FE+3.... N
 HE.... FE(TOT). 3. NB... S04.. 147.
 HI.... GA..... NH4... 10.
 CA.... 7. HCO3.... N
 CL.... 566.
 CO.... K..... 53.

OTHER ANALYTICAL DATA... H = 0.33 PPM.
 QUALIFICATION FIELD... B CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00106

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020407

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 7
 LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-43. N 110-42. W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1970/00/00

WATER ANALYSIS

CHARGE IMBALANCE (B DIFF)... 0.7

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO3.... N	LI....	S....	T
AL.... N	CH.....	MG.... 2.		
AS.... U 2.4				
B.... U 4.7	F.....	NA.... 463.	S102.	576.
HA....	FE+3.... N			
HE....	FE(TOT). 4.	NB... S04.. 35.		
HI....	GA.....	NH4... N		
CA.... 5.	HCO3.... 29.			
CL.... 802.				
CO....	K..... 120.			

OTHER ANALYTICAL DATA... H = 0. PPM; S203 = 1. PPM.
 QUALIFICATION FIELD... AS CALCULATED FROM AS04; B CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00107

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020408

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - SPRING NO. 9
 LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-43. N 110-42. W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1970/00/00

WATER ANALYSIS

ANALYSIS IN PPM

AG....	CO3..... N	LI... 6.	S.... N	<u>ISOTOPES (0/00)</u>	
AL.... 1.	CR.....	MG... 2.			
AS.... 1.9					
H.... 5.4	F.....	NA... 362.	SI02. 539.		
HA....	FE+3... N				
HE....	FE(TOT). 2.	NB... 504..	115.		
HI....	GA.....	NH4.. N			
CA.... 4.	HCO3... N				
CL.... 610.					
CO....	K..... 97.				

OTHER ANALYTICAL DATA... H = 0.6 PPM.
 QUALIFICATION FIELD... B CALCULATED FROM B202; AS CALCULATED FROM AS04.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00108

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020435

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-43.80 N 110-41.98 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK

MAP REFERENCE..... NORRIS JUNCTION 1162500
 OTHER LOCALITY INFORMATION: 40M NORTH OF CONGRESS GEYSER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 50
 TEMPERATURE (C)..... 92.

OTHER SAMPLE INFORMATION.. MILKY WHITE POOL.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH4.. 0.07		
C2H6.	N2... 7.63	
CO2.. 91.	O2... 0 1.5	
N2... L 0.4		

ISOTOPES (00/0)

OTHER ANALYTICAL DATA... PH = 3.9.

QUALIFICATION FIELD... 02 = 02 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-289
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00109

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020433

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-44. N 110-43. W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK

MAP REFERENCE..... NORRIS JUNCTION 1162500
 OTHER LOCALITY INFORMATION: 2M NORTH OF VERMILLION POOL.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 48
 TEMPERATURE (C)..... 79.
 GAS ANALYSIS
 DATE/ANALYST..... 1965/00/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 CH4.. 0.12
 C2H6.. 93. N2... 6.46
 CO2.. 93. O2... 0.85
 H2... L 0.4
 OTHER ANALYTICAL DATA... PH = 2.5.
 QUALIFICATION FIELD..... 02 = 02 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-288
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

ISOTOPES (00/01)

RECORD 00110

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500
 OTHER LOCALITY INFORMATION: 10M SOUTH OF BATHTUB SPRING
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 53
 TEMPERATURE (C)..... 90.6
 GAS ANALYSIS
 DATE/ANALYST..... 1965/00/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 CH4.. 0.05
 C2H6.. 94. N2... 4.46
 CO2.. 94. O2... 0.15
 H2... L 0.4
 OTHER ANALYTICAL DATA... PH = 5.2.
 QUALIFICATION FIELD..... 02 = 02 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-292
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

GEO THERM FILE ID: 0020439

COORDINATES
 LAT/LONG... 44-43. N 110-43. W

ISOTOPES (00/01)

RECORD 00111

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE
 COUNTRY..... UNITED STATES

GEO THERM FILE ID: 0020438

COORDINATES
 LAT/LONG... 44-43. N 110-43. W

STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500
 OTHER LOCALITY INFORMATION: 5M NORTHWEST OF BATHTUB SPRING.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 52
 TEMPERATURE (C)..... 92.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH ₄ ..	0.06		
C ₂ H ₆ ..		N ₂ ...	3.18
CO ₂ ..	96.	O ₂ ...	0 0.31
H ₂ ...	L 0.4		

ISOTOPES (00/01)

OTHER ANALYTICAL DATA... PH = 6.
 QUALIFICATION FIELD..... O₂ = O₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-291
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00112

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020429

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UNNAMED SPRING

LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-44. N 110-43. W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE..... NORRIS JUNCTION 1162500

OTHER LOCALITY INFORMATION: NEAR HURRICANE POOL.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00
 SAMPLE NUMBER..... 5

GAS ANALYSISANALYSIS IN VOLUME %

CH ₄ ..	0.2	H ₂ S..	N
C ₂ H ₆ ..		N ₂ ...	0 3.85
CO ₂ ..	95.	O ₂ ...	0.25
H ₂ ...	0.5		

ISOTOPES (00/01)

QUALIFICATION FIELD..... N₂ = N₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-284
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00113

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020448

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UNNAMED SPRING

LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-43.58 N 110-42.42 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500
 OTHER LOCALITY INFORMATION: 80M SOUTH OF FOOTBRIDGE ON WEST SIDE OF TRAIL PAST ECHINUS GEYSER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 67
 TEMPERATURE (C)..... 91.

OTHER SAMPLE INFORMATION.. COLLOIDAL SULFUR POOL.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %

AR...	0.03		
CH ₄ ..	N		
C ₂ H ₆ ..		N ₂ ...	2.04
CO ₂ ..	98.	O ₂ ...	0.1
H ₂ ...	N		

ISOTOPIES (00/01)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-300
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00114

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020447

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UNNAMED SPRING

LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-43.58 N 110-42.42 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE..... YELLOWSTONE NATIONAL PARK 11125000

OTHER LOCALITY INFORMATION: 20M EAST OF ECHINUS GEYSER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 66
 TEMPERATURE (C)..... 70.

OTHER SAMPLE INFORMATION.. YELLOW POOL.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %

AR...	T		
CH ₄ ..	0.06		
C ₂ H ₆ ..		N ₂ ...	0.85
CO ₂ ..	99.	O ₂ ...	T
H ₂ ...	L 0.4		

ISOTOPIES (00/01)

OTHER ANALYTICAL DATA... PH = 2.9.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-299
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00115

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020457

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UNNAMED SPRING

LOCATION TOWNSHIP-RANGE

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500

COORDINATES

LAT/LONG... 44-43.8 N 110-42.5 W

OTHER LOCALITY INFORMATION: REALGAR CREEK.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 85

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

AR...	0.03		
CH ₄ ...	0.05		
C ₂ H ₆ ...		N ₂ ...	3.47
CO ₂ ...	96.	O ₂ ...	0.09
H ₂ ...	N		

ISOTOPES (00/0)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-306
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00116

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UNNAMED SPRING

GEOHERM FILE ID: 0020456

LOCATION TOWNSHIP-RANGE

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500

COORDINATES

LAT/LONG... 44-43.8 N 110-42.5 W

OTHER LOCALITY INFORMATION: REALGAR CREEK.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 84

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

AR...	0.09		
CH ₄ ...	0.21		
C ₂ H ₆ ...		N ₂ ...	3.93
CO ₂ ...	95.	O ₂ ...	0.41
H ₂ ...	N		

ISOTOPES (00/0)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-305
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00117

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UNNAMED SPRING

GEOHERM FILE ID: 0020455

LOCATION TOWNSHIP-RANGE

COUNTRY..... UNITED STATES

COORDINATES

LAT/LONG... 44-43.7 N 110-42.6 W

STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500
 OTHER LOCALITY INFORMATION: ABOUT 25M NORTHEAST OF NO. 71.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1971/00/00 GUNTER, B.O.
 SAMPLE NUMBER..... 73
 TEMPERATURE (C)..... 85.
 OTHER SAMPLE INFORMATION.. MURKY DARK SPRING WITH SMALL OVERFLOW.

GAS ANALYSIS

DATE/ANALYST..... 1971/00/00 GUNTER, B.O.

ANALYSIS IN MOLE %

AR... 0.36

CH₄.. 1C₂H₆..CO₂.. 87.N₂... 10.3O₂... 1.8ISOTOPES (0020)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-309
 REFERENCE..... GUNTER, 1973

RECORD 00118

GEOTHERM FILE ID: 0020454

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-43.7 N 110-42.6 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK

MAP REFERENCE..... NORRIS JUNCTION 1162500
 OTHER LOCALITY INFORMATION: 25M NORTHEAST OF NO.71.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00

SAMPLE NUMBER..... 73

TEMPERATURE (C)..... 73.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER, B.O. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

AR... 1

CH₄.. 0.14C₂H₆..CO₂.. 96.N₂... 3.28O₂... 0.09ISOTOPES (0020)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-304
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00119

GEOTHERM FILE ID: 0020453

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-43.8 N 110-42.7 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500
 OTHER LOCALITY INFORMATION: ABOUT 5M NORTH OF NO.71.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1971/00/00 GUNTER, B.D.
 SAMPLE NUMBER..... 72

TEMPERATURE (C)..... 90.

OTHER SAMPLE INFORMATION.. SMALL POOL. COULD BE SAME SPRING AS NO. 72, GUNTER AND MUSGRAVE, 1966.

GAS ANALYSIS

DATE/ANALYST..... 1971/00/00 GUNTER, B.D.

ANALYSIS IN MOLE %

AR... 1.5

CH₄... T

C₂H₆...

N₂... 65.1

CO₂... 22.

O₂... 12.

H₂... N

ISOTOPES (0070)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-308
 REFERENCE..... GUNTER, 1973

RECORD 00120

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020452

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-43.8 N 110-42.7 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500
 OTHER LOCALITY INFORMATION: 2M NORTH OF NO.71.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 72

TEMPERATURE (C)..... 89.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

AR... T

CH₄... 0.11

C₂H₆...

N₂... 0.69

CO₂... 99.

O₂... T

H₂... N

ISOTOPES (0070)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-303
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00121

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020451

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UNNAMED SPRING

LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... WYOMING COORDINATES
 COUNTY..... PARK LAT/LONG... 44-43.8 N 110-42.7 W
 MAP REFERENCE..... NORRIS JUNCTION 1162500
 OTHER LOCALITY INFORMATION: WEST SIDE OF PORCELAIN BASIN UNDER A ROCK LEDGE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1971/00/00 GUNTER, B.O.
 SAMPLE NUMBER..... 71
 TEMPERATURE (C)..... 90.
 OTHER SAMPLE INFORMATION.. LARGE COLLOIDAL SULFUR POOL WITH VIGOROUS ACTION AND NO OVERFLOW.

GAS ANALYSIS

DATE/ANALYST..... 1971/00/00 GUNTER, B.O.

ANALYSIS IN MOLE %

ISOTOPES (00/01)

AR...	0.1		
CH ₄ ..	1		
C ₂ H ₆ ..		N ₂ ...	4.84
CO ₂ ..	95.	O ₂ ...	0.31
H ₂ ..	H		

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-307
 REFERENCE..... GUNTER, 1973

RECORD 00122

GEOHERM SAMPLE FILE

GEOHERM FILE 101 0020450

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UNNAMED SPRING

LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-43.8 N 110-42.7 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE..... NORRIS JUNCTION 1162500

OTHER LOCALITY INFORMATION: UNDER A LEDGE, WEST SIDE OF PORCELAIN BASIN.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00

SAMPLE NUMBER..... 71

TEMPERATURE (C)..... 89.

OTHER SAMPLE INFORMATION.. LARGE COLLOIDAL SULFUR POOL.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER, B.O. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

ISOTOPES (00/01)

AR...	0.04		
CH ₄ ..	0.38		
C ₂ H ₆ ..		N ₂ ...	3.31
CO ₂ ..	96.	O ₂ ...	0.31
H ₂ ..	H		

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-302
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00123

GEOTHERM FILE ID: 0020458

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-43.7 N 110-42.6 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... NORRIS JUNCTION 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1964/00/00
 SAMPLE NUMBER..... 12
 TEMPERATURE (C)..... 80.

OTHER SAMPLE INFORMATION.. COLLUIDAL, BOILING WATER POOL.

GAS ANALYSIS

ANALYSIS IN VOLUME %

AR... 0.581.

CH₄... 2.2C₂H₆...CO₂... 96.H₂S... TN₂... 2.9O₂... NISOTOPIES (00/01)OTHER ANALYTICAL DATA... PH = 2.1 NE = 8.9×10^{-5} ; KH = 9×10^{-6} ; XE = $1. \times 10^{-6}$.

QUALIFICATION FIELD..... AR IN PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-310
 REFERENCE..... MAZOR AND WASSERBURG, 1965

RECORD 00124

GEOTHERM FILE ID: 0020437

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UNNAMED STEAM VENT
 LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-44. N 110-43. W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK

MAP REFERENCE..... NORRIS JUNCTION 1162500

OTHER LOCALITY INFORMATION: PORCELAIN BASIN.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 51

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER, B.O. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH₄... 0.04C₂H₆...CO₂... 99.H₂... L 0.4H₂S... 0.66O₂... 0 0.07ISOTOPIES (00/01)QUALIFICATION FIELD..... O₂ = O₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-290
 REFERENCE..... GUNTER AND MUSGRAVE, 1960

RECORD 00125

GEOTHERM FILE ID: 0020443

GEOTHERM SAMPLE TITLE

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - UPPER GREEN DRAGON SPRING

LOCATION
COUNTRY..... UNITED STATES TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-43. N 110-43. W

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE..... NORRIS JUNCTION 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00

SAMPLE NUMBER..... 60

TEMPERATURE (C)..... 94.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

AR... T

CH₄... TC₂H₆...N₂... 3.36CO₂... 47.O₂... TH₂... TISOTOPES (00/00)

OTHER ANALYTICAL DATA... PH = 3.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-297

REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00126

GEOTHERM FILE ID: 0020432

GEOTHERM SAMPLE TITLE

NAME OF SAMPLE SOURCE... NORRIS GEYSER BASIN - VERMILION POOL

LOCATION
COUNTRY..... UNITED STATES TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-44. N 110-43. W

STATE..... WYOMING

COUNTY..... PARK

MAP REFERENCE..... NORRIS JUNCTION 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00

SAMPLE NUMBER..... 47

TEMPERATURE (C)..... 94.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER, B.D. AND WASSERBURG, B.C.

ANALYSIS IN MOLE %

CH₄... 0.09C₂H₆...N₂... 5.62CO₂... 94.O₂... 0.25H₂... L 0.4ISOTOPES (00/00)

OTHER ANALYTICAL DATA... PH = 2.5.

QUALIFICATION FIELD..... O₂ = O₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-297

REFERENCE..... GUNTER AND WASSERBURG, 1960

RECORD 00127

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020503

NAME OF SAMPLE SOURCE... YELLOWSTONE - CALCITE NO. 1
LOCATION TOWNSHIP=RANGECOORDINATES
LAT/LONG... 44-54.65 N 110-23.78 WCOUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... PARK
GEOLOGIC PROVINCE.. YELLOWSTONE PLATEAU
MAP REFERENCE..... TOWER JUNCTION 1162500
OTHER LOCALITY INFORMATION: EAST OF HUMPUS BUTTE BY YELLOWSTONE RIVER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00 GUNTER AND MUSGRAVE
SAMPLE NUMBER..... 101
TEMPERATURE (C)..... 92.5

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER, H.D. AND MUSGRAVE, H.C.

ANALYSIS IN MOLE %

ISOTOPIES (0020)

CH₄... 1
C₂H₆...
CO₂... 96.
H₂... L 0.4
N₂... 4.19
O₂... U 0.16

OTHER ANALYTICAL DATA... PH = 7.9.

QUALIFICATION FIELD..... 02 = 02 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LANSON, WILLIAM A.
COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPILED CROSS INDEX... NEM-352
REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00128

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020505

NAME OF SAMPLE SOURCE... YELLOWSTONE - CALCITE NO. 2
LOCATION TOWNSHIP=RANGECOORDINATES
LAT/LONG... 44-54.65 N 110-23.78 WCOUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... PARK
GEOLOGIC PROVINCE.. YELLOWSTONE PLATEAU
MAP REFERENCE..... TOWER JUNCTION 1162500
OTHER LOCALITY INFORMATION: EAST OF HUMPUS BUTTE BY YELLOWSTONE RIVER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00 GUNTER AND MUSGRAVE
SAMPLE NUMBER..... 102
TEMPERATURE (C)..... 89.4

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER, H.D. AND MUSGRAVE, H.C.

ANALYSIS IN MOLE %

ISOTOPIES (0020)

CH₄... 1
C₂H₆...
CO₂... 99.
H₂... L 0.4
N₂... 1.1
O₂... U 0.23

OTHER ANALYTICAL DATA... PH = 7.1.

QUALIFICATION FIELD..... 02 = 02 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEM-353
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00129

GEOCHEM. SAMPLE FILE

GEOCHEM FILE 101 0020504

NAME OF SAMPLE SOURCE... YELLOWSTONE - CALCITE SPRINGS
 LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-54.65 N 110-23.78 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 GEOLOGIC PROVINCE.. YELLOWSTONE PLATEAU
 MAP REFERENCE..... TOWER JUNCTION 1162500
 OTHER LOCALITY INFORMATION: AT EXTREME NORTH END OF AREA.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1970/00/00

WATER ANALYSIS

CHANGE IN BALANCE (% DIFF)... 2.4

ANALYSIS IN PPM

ISOTOPES (0/001)

AG....	CO3....	LI....	S....	17.
AL....	CR....	MG....	4.	
H....	F....	NA....	209.	SI02. 140.
HE....	FE(TOT). F	NB....	S04..	186.
HI....	GA....	NH4..	24.	
CA....	HCO3....			
CL....				
CO....	K....			

OTHER ANALYTICAL DATA... S2O3 = 21. PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00130

GEOCHEM. SAMPLE FILE

GEOCHEM FILE 101 0020502

NAME OF SAMPLE SOURCE... YELLOWSTONE - CALCITE SPRINGS
 LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-54.65 N 110-23.78 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 GEOLOGIC PROVINCE.. YELLOWSTONE PLATEAU
 MAP REFERENCE..... TOWER JUNCTION 1162500
 OTHER LOCALITY INFORMATION: SOUTH END OF TALUS SLOPE, 15 FT FROM RIVER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1970/00/00

SAMPLE NUMBER..... 34

DEPOSITS OR ALTERATION... OPAL AND ALUNITE; SECONDARY PYRITE PRESENT.

WATER ANALYSIS

CHANGE IN BALANCE (% DIFF)... 1.0

ANALYSIS IN PPM

ISOTOPES (0/001)

AG....	CO3....	LI....	S....	1
AL....	CR....	MG....	4.	
H....	F....	NA....	205.	SI02. 205.

HE....		FE(TOT)..	2.	NH...		S04..	344.
HI....		GA.....		NH4..	31.		
CA....	25.	HCO3....	45.				
CL....	244.						
CO....		K.....	95.				

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH4..	N	H2S..	5.5
C2H6.		N2...	0 1.3
CO2..	93.	O2...	N
H2...	N		

ISOTOPES 100701

OTHER ANALYTICAL DATA... H2O ANALY S203 = 10. PPM.

QUALIFICATION FIELD... N2=N2 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-348
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00131

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020506

NAME OF SAMPLE SOURCE... YELLOWSTONE - CHOCOLATE POTS

LOCATION

TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-42.78 N 110-44.67 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... PARK

GEOLOGIC PROVINCE.. YELLOWSTONE PLATEAU

MAP REFERENCE..... NORRIS JUNCTION 1162500

OTHER LOCALITY INFORMATION: EAST SIDE OF GIBBON RIVER; 8M ABOVE RIVER; SOUTH FEATURE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00 GUNTER AND MUSGRAVE

SAMPLE NUMBER..... 45

TEMPERATURE (C)..... 51.

OTHER SAMPLE INFORMATION.. SMALL HUBBLING SPRING.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

CH4..	N	N2...	0 0.78
C2H6.		O2...	0.14
CO2..	99.		
H2...	E 0.4		

ISOTOPES 100701

OTHER ANALYTICAL DATA... PH = 6.

QUALIFICATION FIELD... N2 = N2 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-349
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00132

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020507

NAME OF SAMPLE SOURCE... YELLOWSTONE - CHOCOLATE POTS

LOCATION

TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-42.77 N 110-44.67 W

COUNTRY..... UNITED STATES

STATE..... WYOMING
 COUNTY..... PARK
 GEOLOGIC PROVINCE.. YELLOWSTONE PLATEAU
 MAP REFERENCE..... MORRIS JUNCTION 1162500
 OTHER LOCALITY INFORMATION: 404 NORTH OF NO. 45.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/00/00 GUNTER AND MUSGRAVE
 SAMPLE NUMBER..... 46
 TEMPERATURE (C)..... 52.

GAS ANALYSIS
 DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MOLE %
 CH₄.. W
 C₂H₆.. N₂... 0 0.56
 CO₂.. 99.. O₂... 0.02
 H₂.. L 0.4

ISOTOPES (00701)

OTHER ANALYTICAL DATA... PH = 6.
 QUALIFICATION FIELD..... N₂ = N₂ + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEM-359
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00133

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... YELLOWSTONE - DEVIL'S INKDOT
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... TOWER JUNCTION 1162500
 OTHER LOCALITY INFORMATION: WASHBURN SPRINGS; SOUTH SIDE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1971/00/00 GUNTER, U.O.
 SAMPLE NUMBER..... 90

GEOTHERM FILE ID: 0020494

COORDINATES
 LAT/LONG... 44-45.53 N 110-25.85 W

GAS ANALYSIS
 DATE/ANALYST..... 1971/00/00 GUNTER, H.O.
 ANALYSIS IN MOLE %
 AR... 0.90
 CH₄.. 12.
 C₂H₆.. N₂... 2.38
 CO₂.. 8.. O₂... T
 H₂.. S

ISOTOPES (00701)

DEL D OF CH₄..... -23.5

REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEM-344
 REFERENCE..... GUNTER, 1973.

RECORD 00134

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... YELLOWSTONE - DEVIL'S INKDOT
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... TOWER JUNCTION 1162500
 OTHER LOCALITY INFORMATION: WASHBURN SPRINGS; SOUTH SIDE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1971/00/00 GUNTER, U.O.
 SAMPLE NUMBER..... 90

GEOTHERM FILE ID: 0020492

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... TOWER JUNCTION 1162500
 OTHER LOCALITY INFORMATION: WASHRUEN SPRINGS SOUTH SIDE.

LAT/LONG... 44-45.53 N 110-25.85 W

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1970/00/00

WATER ANALYSIS

ANALYSIS IN PPM

AG....		CO3.....	LI...	0.4		
AL....	3.7	CR.....	MG...	12.		
H....	0 8.0	F.....	NA...	25.	SI02..	90.
HE....		FE(TOT)..	NB...		S04...	2320.
RI....		GA.....	NH4..	769.		
CA....	40.					
CD....		H2S.....		5.1		
CL....	5.8					
CO....		K.....		8.3		

ISOTOPES (0/00)

OTHER ANALYTICAL DATA... AS203 = 0. PPM; CO2 = 64.7 PPM; H = 0.2 PPM.

QUALIFICATION FIELD... d CALCULATED FROM B203.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00135

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020493

NAME OF SAMPLE SOURCE... YELLOWSTONE - DEVIL'S INK POT

LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-45.53 N 110-25.85 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... TOWER JUNCTION 1164500
 OTHER LOCALITY INFORMATION: WASHRUEN SPRINGS SOUTH END.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 90
 TEMPERATURE (C)..... 81.5

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

CH4..	12.		
C2H6.		N2...	2.32
CO2..	H4.	O2...	0 0.07
H2...	1.2		

ISOTOPES (00/01)

QUALIFICATION FIELD... O2 = O2 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... WEM-34.3
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00136

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020500

NAME OF SAMPLE SOURCE... YELLOWSTONE - MUD VOLCANO
 LOCATION TOWNSHIP=RANGE

COORDINATES
 LAT/LONG... 44-37.28 N 110-25.58 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... CANYON VILLAGE 1162500
 OTHER LOCALITY INFORMATION: SW OF YELLOWSTONE RIVER BY DRAGONS MOUTH SPRING.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 85.5
 OTHER SAMPLE INFORMATION.. MUDDY WATER WITH SULFUR LINED BANK.

WATER ANALYSIS

ANALYSIS IN PPM

AG.....	CO3..... N			ISOTOPES (0/00)	
ME.....	FE(TOT).	NR...	S04..	1272.	
CA.....	HCO3.....	24.			
CL.....					

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00137

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - NEW HIGHLAND
 LOCATION TOWNSHIP=RANGE

GEOTHERM FILE ID: 0075079

COORDINATES
 LAT/LONG... 44-58. N 110-42. W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... MAMMOTH 1162500
 OTHER LOCALITY INFORMATION: MAMMOTH HOT SPRINGS YELLOWSTONE NATIONAL PARK

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 73.5
 WATER ANALYSIS
 PH..... 7.34
 CHANGE IMBALANCE (% DIFF)... 0.1

ANALYSIS

AG.....	CO3.....	LI...	1.6	ISOTOPES (0/00)	
AL.....	CR.....	MG...	76.		
H..... 3.7	F..... 2.5	NA...	130.	S102.	54.
ME.....	FE(TOT).	NR...	S04..	S08.	
CA..... 345.	HCO3..... 864.				
CU.....	H2S..... 5.8				
CL..... 160.					
CO.....	K..... 55.				

REFERENCE AND IDENTIFICATION

COMPILED BY..... SILVA, CHRISTOPHER L.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... RECKENRIDGE AND HINCKLEY, 1978

RECORD 00138

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - NORRIS GEYSER BASIN - SPRING NO. 59
 LOCATION TOWNSHIP=RANGE

GEOTHERM FILE ID: 0020416

COORDINATES

LAT/LONG... 44-43. N 110-42. W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 GEOLOGIC PROVINCE.. YELLOWSTONE PLATEAU
 MAP REFERENCE..... NORRIS JUNCTION 1162500
 OTHER LOCALITY INFORMATION: WESTERN BANK, NORTHWEST OF VARMA SPRING.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTION..... 1970/00/00
 OTHER SAMPLE INFORMATION.. DEEP SPRING WITH BLACK DEPOSIT.

WATER ANALYSIS

ANALYSIS IN PPM

AR.....	CO3..... N	LI...	S.... N	<u>ISOTOPES (0200)</u>
AL..... 1.	CR.....	MG... T		
H..... 0.1	F.....	NA... 257.	SI02. 367.	
HA.....	FE+3... N			
HF.....	FE(TOT). 3.	NB...	S04.. 188.	
HI.....	GA.....	NH4... 7.		
CA..... 5.	HCO3... N			
CL..... 393.				
CO.....	K..... 76.			

OTHER ANALYTICAL DATA... H = 1.4 PPM
 QUALIFICATION FIELD... B CALCULATED FROM 8202.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00139

GEOTHERM FILE ID: 0075093

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - PORK CHOP SPRING
 LOCATION... IDWNSHIP=RANGE

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK

OTHER LOCALITY INFORMATION: NORRIS GEYSER BASIN YELLOWSTONE NATIONAL PARK.

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 1

TEMPERATURE (C)..... 71.

WATER ANALYSIS

PH..... 7.13

ANALYSIS

AG.....	CO3..... N	LI... 7.4	<u>ISOTOPES (0200)</u>
AL... L 0.1	CR.....	MG... 0.5	
H..... 15.	F.....	NA... 526.	SI02. 435.
HE.....	FE(TOT). L 0.1	NH... 33.	S04.. 33.
CA... 6.4			

REFERENCE AND IDENTIFICATION

COMPILED BY..... SILVA, CHRISTOPHER L.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... TRUESDALE AND FOURNIER, 1976

RECORD 00140

GEOTHERM FILE ID: 0020501

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - SULFUR POOL

LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... CANYON VILLAGE 1162500
 OTHER LOCALITY INFORMATION: BY MUD VOLCANO.

COORDINATES
 LAT/LONG... 44-37.28 N 110-25.58 W

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 SAMPLE NUMBER..... 31

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH ₄ ..	0.1	H ₂ S..	0.1
C ₂ H ₆ ..		N ₂ ..	0 1.
CO ₂ ..	99.	O ₂ ..	N
H ₂ ..	N		

ISOTOPES 100201

QUALIFICATION FIELD..... N₂ = N₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-347
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00141

GEO THERM SAMPLE FILE

GEO THERM FILE 101 0020508

NAME OF SAMPLE SOURCE... YELLOWSTONE - UNNAMED SPRING

LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE

COORDINATES

STATE..... WYOMING
 COUNTY..... PARK
 GEOLOGIC PROVINCE... YELLOWSTONE PLATEAU
 OTHER LOCALITY INFORMATION: NEAR GIBBON RIVER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00 GUNTER AND MUSGRAVE
 SAMPLE NUMBER..... 86

OTHER SAMPLE INFORMATION.. STEAMING SULFUR AREA.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

AR..	0.03	H ₂ ..	2.58
CH ₄ ..	0.2	O ₂ ..	0.23
C ₂ H ₆ ..			
CO ₂ ..	97.		
H ₂ ..	L 0.4		

ISOTOPES 100201

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-351
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00142

GEO THERM SAMPLE FILE

GEO THERM FILE 101 0020499

NAME OF SAMPLE SOURCE... YELLOWSTONE - UNNAMED SPRING

LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-32.38 N 110-15.22 W

STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... CANYON VILLAGE 1162500
 OTHER LOCALITY INFORMATION: BY BEAR CREEK, ABOUT 1000 FT SOUTH OF TURBID LAKE.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1970/00/00
 SAMPLE NUMBER..... 30
 TEMPERATURE (C)..... 16.1

WATER ANALYSIS

ANALYSIS IN PPM

HE..... FE(TOT). NB... S04.. 342.
 CA..... HCO3.... N
 CL..... 7.

ISOTOPES (02/00)

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH4.. 0.5 H2S.. 0.65
 C2H6.. N2... 0 0.9
 CO2.. 98. O2... N
 H2... N

ISOTOPES (00/00)

OTHER ANALYTICAL DATA... H2O ANAL: H = 0.15 PPM.

QUALIFICATION FIELD..... N2 = N2 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-346
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00143

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE

GEOHERM FILE ID: 0020498

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK

COORDINATES

LAT/LONG... 44-32.48 N 110-15.35 W

MAP REFERENCE..... CANYON VILLAGE 1162500

OTHER LOCALITY INFORMATION: NE OF BEAR CREEK, NEAR TURBID LAKE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 18.8

OTHER SAMPLE INFORMATION.. LARGE SHALLOW POOL.

WATER ANALYSIS

ANALYSIS IN PPM

HE..... FE(TOT). NB... S04.. 1358.
 CA..... HCO3.... F
 CL..... 0.

ISOTOPES (02/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00144

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE

GEOHERM FILE ID: 0020497

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... TOWER JUNCTION 1162500
 OTHER LOCALITY INFORMATION: WASHBURN SPRINGS EAST SIDE.

LAT/LONG... 44-46.00 N 110-25.80 W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1971/00/00
 SAMPLE NUMBER..... 91
 TEMPERATURE (C)..... AB.

OTHER SAMPLE INFORMATION.. SPRING HAS "SLIGHT" RUN OFF.

GAS ANALYSIS

DATE/ANALYST..... 1971/00/00 GUNTER, H.D.

ANALYSIS IN MOLE %

AR...	0.10		
CH ₄ ...	14.		
C ₂ H ₆ ...		N ₂ ...	2.98
CO ₂ ...	81.	O ₂ ...	1
H ₂ ...	1.2		

ISOTOPIES (00/01)

DEL D OF CH₄..... -26.6

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-345
 REFERENCE..... GUNTER, 1973

RECORD 00145

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - UNNAMED SPRING
 LOCATION TOWNSHIP=RANGE

GEO THERM FILE NO: 0020496

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... TOWER JUNCTION 1162500
 OTHER LOCALITY INFORMATION: WASHBURN SPRINGS EAST SIDE.

COORDINATES

LAT/LONG... 44-46.00 N 110-25.80 W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 91

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER, H.D. AND MUSGRAVE, H.C.

ANALYSIS IN MOLE %

CH ₄ ...	16.		
C ₂ H ₆ ...		N ₂ ...	1.31
CO ₂ ...	81.	O ₂ ...	0 0.04
H ₂ ...	1.2		

ISOTOPIES (00/01)

QUALIFICATION FIELD..... O₂ = O₂ + AR.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-342
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00146

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - UNNAMED SPRING
 LOCATION TOWNSHIP=RANGE

GEO THERM FILE NO: 0020495

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... TOWER JUNCTION 1162500
 OTHER LOCALITY INFORMATION: WASHBURN SPRINGS, EAST SIDE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1970/00/00
 SAMPLE NUMBER..... 33

LAT/LONG... 44-46.00 N 110-25.80 W

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH ₄ ..	13.	H ₂ S..	0.55
C ₂ H ₆ ..	1.2	N ₂ ...	0 3.7
CO ₂ ..	81.	O ₂ ...	N
H ₂ ...	0.25		

ISOLOPES (0070)

QUALIFICATION FIELD..... N2 = N2 + O2.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-341
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00147

 GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE

GEOTHERM FILE ID: 0020491

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... CANYON VILLAGE 1162500
 OTHER LOCALITY INFORMATION: CRATER HILLS, EAST SIDE.

COORDINATES

LAT/LONG... 44-39.53 N 110-28.75 W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00 GUNTER AND MUSGRAVE
 SAMPLE NUMBER..... 100
 TEMPERATURE (C)..... 87.

OTHER SAMPLE INFORMATION.. SULFUR POOL.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

CH ₄ ..	N	N ₂ ...	0.79
C ₂ H ₆ ..		O ₂ ...	0 0.02
CO ₂ ..	99.		
H ₂ ...	L 0.4		

ISOLOPES (0070)

OTHER ANALYTICAL DATA... PH = 3.4.

QUALIFICATION FIELD..... O2 = O2 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-340
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00148

 GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE

GEOTHERM FILE ID: 0020490

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... CANYON VILLAGE 1162500
 OTHER LOCALITY INFORMATION: CRATER HILLS! 70M WEST OF CRATER HILLS GEYSER.

LAT/LONG... 44-39.50 N 110-29.00 W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00 GUNTER AND MUSGRAVE
 SAMPLE NUMBER..... 98
 TEMPERATURE (C)..... 70.6

OTHER SAMPLE INFORMATION.. SMALL SULFUR POOL.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MOLE %

CH₄.. NC₂H₆..CO₂.. 99.H₂.. NN₂... 0.36O₂... 0.19ISOTOPES (00/01)QUALIFICATION FIELD..... O₂ = O₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-339
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00149

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - UNNAMED SPRING
 LOCATION TOWNSHIP=RANGE

GEO THERM FILE ID: 0020489

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK

COORDINATES

LAT/LONG... 44-39.50 N 110-28.93 W

MAP REFERENCE..... CANYON VILLAGE 1162500

OTHER LOCALITY INFORMATION: CRATER HILLS! ABOUT 150M SOUTH OF CRATER HILLS GEYSER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00 GUNTER AND MUSGRAVE
 SAMPLE NUMBER..... 99
 TEMPERATURE (C)..... 85.

OTHER SAMPLE INFORMATION.. LARGE BLACK FEATURE.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MOLE %

CH₄.. TC₂H₆..CO₂.. 99.H₂.. NN₂... 0.74O₂... 0.02ISOTOPES (00/01)QUALIFICATION FIELD..... O₂ = O₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-338
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00150

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020488

NAME OF SAMPLE SOURCE... YELLOWSTONE - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE

COORDINATES
 LAT/LONG... 44-39.50 N 110-28.93 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... PARK
 MAP REFERENCE..... CANYON VILLAGE 1162500

OTHER LOCALITY INFORMATION: CRATER HILLS; SOUTH AREA; ABOUT 200 YDS SOUTH OF CRATER HILLS GEYSER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00
 SAMPLE NUMBER..... 32
 TEMPERATURE (C)..... 79.8

WATER ANALYSIS

ANALYSIS IN PPM

AG.... CO3..... N
 HE.... FE(TOT). NB...
 CA.... HCO3..... N
 CL.... 283.

ISOTOPES (O/001)

S04.. 1098.

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH4.. 0.1 H2S.. N
 C2H6.. N2.. 0 1.75
 CO2.. 98. O2.. 0.05
 H2.. N

ISOTOPES (00/01)

OTHER ANALYTICAL DATA... H2O ANAL: H = 13.7 PPM.
 QUALIFICATION FIELD... N2 = N2 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-337
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00151

 GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0075056

NAME OF SAMPLE SOURCE... IMMIGRANTS WASH TUB
 LOCATION TOWNSHIP-RANGE

COORDINATES
 LAT/LONG... 42-14.97 N 104-46.82 W
 UTM ZONE... +13
 NORTHING... 4677288.
 518122.

COUNTRY..... UNITED STATES SE OF SW
 STATE..... WYOMING
 COUNTY..... PLATTE
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... WHEATLAND NE 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/10/24
 TEMPERATURE (C)..... 0 21.
 DISCHARGE..... 0 87.

OTHER SAMPLE INFORMATION.. TWO SPRINGS 200 FT APART.

WATER ANALYSIS

TOTAL DISSOLVED SOLIDS... 340.
 ANALYSIS IN PPM

HE.... FE(TOT). NB...
 CA.... HCO3..... NO3.. 1.2
 S04.. 86.

ISOTOPES (O/001)

QUALIFICATION FIELD... BOTH SPRINGS SAME TEMPERATURE. FLOW IS TOTAL (1 SPRING FLOWS 11 L/MIN, THE OTHER 76 L/MIN).

TEMPERATURE FROM 1976 ANALYSIS.

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING

REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00152

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0075055

NAME OF SAMPLE SOURCE... IMMIGRANTS WASH TUB

LOCATION

COUNTRY..... UNITED STATES TOWNSHIP-RANGE SE OF SW

STATE..... WYOMING

COUNTY..... PLATTE

GEOLOGIC PROVINCE.. 41

COORDINATES

LAT/LONG... 42-14.97 N 104-46.82 W

UTM ZONE... +13

NORTHING... 4677288.

518122.

MAP REFERENCE..... WHEATLAND NE 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/07/29

TEMPERATURE (C)..... 0 21.0

DISCHARGE..... 0 87. L/MIN

OTHER SAMPLE INFORMATION.. TWO SPRINGS 200 FT APART.

WATER ANALYSIS

PH..... 7.9

SPECIFIC CONDUCTANCE..... 517.

TOTAL DISSOLVED SOLIDS... 322.

CHARGE IMBALANCE (% DIFF)... 1.7

ANALYSIS IN PPM

AG....	CO3..... N	LI....	S....	L 0.001
AL....	CR.....	MG... 22.	SI02.. 18.	
H..... 0.06	F..... 2.5	NA... 19.	SO4... 92.	
HE....	FE(TOT)..	NB... 1.2		
CA.... 52.	HCO3.... 200.	NO3.. 1.2		
CL.... 3.7				
CO....	K..... 4.2			

ISOTOPES (0/001)

QUALIFICATION FIELD..... BOTH SPRINGS SAME TEMPERATURE. FLOW IS TOTAL (1 SPRING FLOWS 11 L/MIN; THE OTHER 76 L/MIN).

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.

COMPILER AFFILIATION... UNIVERSITY OF WYOMING

REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00153

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0075062

NAME OF SAMPLE SOURCE... BIG FALL CREEK SPRINGS

LOCATION

COUNTRY..... UNITED STATES TOWNSHIP-RANGE SW OF SE

STATE..... WYOMING

COUNTY..... SUBLETTE

GEOLOGIC PROVINCE.. 41

COORDINATES

LAT/LONG... 42-23.92 N 110-30.68 W

UTM ZONE... +12

NORTHING... 4693943.

540218.

MAP REFERENCE..... MT. THOMPSON 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/09/07

TEMPERATURE (C)..... 16.0

DISCHARGE..... 10220. L/MIN

WATER ANALYSIS

PH..... 7.8

SPECIFIC CONDUCTANCE..... 712.

TOTAL DISSOLVED SOLIDS... 524.

CHARGE IMBALANCE (% DIFF)... 1.4

ANALYSIS IN PPM

ISOTOPES (0/001)

AG....		CO3.... N		LI....		S....	0.001
AL....		CR....		MG....	29.		
H....	0.02	F....	1.1	NA....	4.1	SI02..	13.
HF....		FE(TOT)..		NH....		S04..	260.
CA....	110.	HCO3....	160.	NU3..	0.7		
CL....	4.0						
CO....		K....	1.4				

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00154

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... KENDALL WARM SPRINGS
 GEOTHERM FILE ID: 0075057

LOCATION

COUNTRY.....	UNITED STATES	TOWNSHIP-RANGE	38N 110W 02	COA	COORDINATES
STATE.....	WYOMING				LAT/LONG... 43-16.93 N 110-01.13 W
COUNTY.....	SUBLETTE				UTM ZONE... +12
GEOLOGIC PROVINCE..	41				NORTHING... 4792402.
MAP REFERENCE.....	KLONDIKE HILL 1:24000				579609.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/09/24
 TEMPERATURE (C)..... 29.5
 DISCHARGE..... 13627. L/MIN
 OTHER SAMPLE INFORMATION.. 6 MAIN SPRINGS, UNIQUE SPECIES OF FISH IN AREA.

WATER ANALYSIS

PH..... 8.0
 SPECIFIC CONDUCTANCE..... 1230.
 TOTAL DISSOLVED SOLIDS... 1060.
 CHARGE IMBALANCE (% DIFF)... 5.3

ANALYSIS IN PPM

AG....		CO3.... N		LI....		S....	L 0.001
AL....		CR....		MG....	46.		
H....	0.05	F....	0.4	NA....	2.3	SI02..	17.
HF....		FE(TOT)..		NH....		S04..	650.
CA....	220.	HCO3....	130.	NU3..	0.2		
CL....	2.3						
CO....		K....	2.8				

ISOTOPES (0/001)

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00155

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... KENDALL WARM SPRINGS
 GEOTHERM FILE ID: 0075058

LOCATION

COUNTRY.....	UNITED STATES	TOWNSHIP-RANGE	38N 110W 02	SE OF SW	COORDINATES
STATE.....	WYOMING				LAT/LONG... 43-16.93 N 110-01.13 W
COUNTY.....	SUBLETTE				UTM ZONE... +12
GEOLOGIC PROVINCE..					NORTHING... 4792402.
MAP REFERENCE.....	KLONDIKE HILL 1:24000				579609.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1986/08/09
 TEMPERATURE (C)..... 0 29.5
 ..OTHER SAMPLE INFORMATION.. 6 MAIN SPRINGS. UNIQUE SPECIES OF FISH IN AREA.
 WATER ANALYSIS

Pi..... 7.8
 SPECIFIC CONDUCTANCE..... 1250.
 TOTAL DISSOLVED SOLIDS... 1000.
 CHANGE IMBALANCE (% DIFF)... 2.9

ANALYSIS IN PPM

AL....	CR.....	MG....	52.		
H.....	F..... 2.1	NA....	4.0	SI02..	15.
HE....	FE(TOT)..	NB....		S04..	650.
CA.... 215.	HCO3.... 120.	NO3..	N		
CL.... 3.2					
CO....	K..... 2.7				

ISOTOPES (0/001)

QUALIFICATION FIELD..... TEMPERATURE FROM 9/24/76 ANALYSIS.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... RRECKENRIDGE AND HINCKLEY, 1978

RECORD 00156

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... STEELE HOT SPRINGS - SPRING 1
 LOCATION TOWNSHIP-RANGE COORDINATES
 COUNTRY..... UNITED STATES 32N 107W 16 NW OF NW LAT/LONG... 42-44.98 N 109-36.97 W
 STATE..... WYOMING UTM ZONE... +12
 COUNTY..... SUBLETTE NORTHING... 4733730.
 GEOLOGIC PROVINCE.. 4) 613255.
 MSP REFERENCE..... FREMONT BUTTE 1124000

GEOHERM FILE ID: 0075059

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/09/24
 TEMPERATURE (C)..... 35.5
 DISCHARGE..... 76. L/MIN
 ..OTHER SAMPLE INFORMATION.. 2 SPRINGS 150 FT APART. SPRING 1 IS LARGER. COOLER SPRING.
 WATER ANALYSIS

Pi..... 9.6
 SPECIFIC CONDUCTANCE..... 456.
 TOTAL DISSOLVED SOLIDS... 302.
 CHANGE IMBALANCE (% DIFF)... 1.7

ANALYSIS IN PPM

AG.... L 0.5	CO3..... 29.	LI....	S....	0.8
AL....	CR..... L 0.1	MG....	N	
AS.... L 0.05	CS.....	MN....	L 0.05	
AU....	CU..... L 0.01	MU....	SE... L 0.001	
H..... 0.02	F..... 14.	NA....	90.	SI02.. 46.
HA.... L 0.5				
HE....	FE (TOT).. N	NB....		S04.. 8.2
HR....	GE.....	NI....	L 0.1	
CA.... 2.8	HCO3.... N	NO3..	N	
CA+MG.	HG..... L 0.001	PB....	L 0.1	
CD.... L 0.01				
CL.... 76.				
CO....	K..... 1.2			

ISOTOPES (0/001)

OTHER ANALYTICAL DATA... OH = 1.0 PPM.

ZN... L 0.02

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00157

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0075060

NAME OF SAMPLE SOURCE... STEELE HOT SPRINGS - SPRING 1

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 32N 107W 16 NW OF NW LAT/LONG... 42-44.98 N 109-36.97 W
 STATE..... WYOMING UTM ZONE... +12
 COUNTY..... SUBLETTE NORTHING... 4733730.
 GEOLOGIC PROVINCE... 613255.
 MAP REFERENCE..... FREMONT BUTTE 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1966/09/22
 TEMPERATURE (C)..... 43.5
 OTHER SAMPLE INFORMATION.. 2 SPRINGS 150 FT APART. SPRING 1 IS LARGER, COOLER SPRING.

WATER ANALYSIS

PH..... 9.3
 SPECIFIC CONDUCTANCE..... 460.
 TOTAL DISSOLVED SOLIDS... 268.
 CHARGE IMBALANCE (% DIFF)... 22.8

ANALYSIS IN PPM

AL.....		CR.....		MG...	0.2		
H.....	0.1	F.....	14.	NA...	91.	SI02.	49.
FE.....		FE(TOT).	0.41	NB...		SO4..	14.
CA.....	2.4	HCO3....	17.	NO3..	0.1		
CL.....	76.						
CO.....		K.....	1.2				

ISOTOPIES (0/00)

QUALIFICATION FIELD..... TEMPERATURE FROM 9/24/76 ANALYSIS.

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00158

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0075061

NAME OF SAMPLE SOURCE... STEELE HOT SPRINGS - SPRING 2

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 32N 107W 16 NW OF NW LAT/LONG... 42-44.98 N 109-36.97 W
 STATE..... WYOMING UTM ZONE... +12
 COUNTY..... SUBLETTE NORTHING... 4733730.
 GEOLOGIC PROVINCE... 613255.
 MAP REFERENCE..... FREMONT BUTTE 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/09/24
 TEMPERATURE (C)..... 39.0
 DISCHARGE..... 19. L/MIN
 OTHER SAMPLE INFORMATION.. 2 SPRINGS 150 FT APART. SPRING 2 IS THE SMALLER, HOTTER SPRING.

WATER ANALYSIS

PH..... 9.7
 SPECIFIC CONDUCTANCE..... 461.
 TOTAL DISSOLVED SOLIDS... 300.

CHARGE IMBALANCE (% DIFF)... 4.2

ANALYSIS IN PPM

AG.... L 0.5	CO3..... 30.	LI....	S.... 0.8
AL....	CR..... L 0.1	MG.... N	
AS.... L 0.05	CS.....	MN.... L 0.05	
AU....	CU..... L 0.01	MO....	SE... L 0.001
H.... 0.03	F..... 14.	NA.... 92.	SI02. 46.
HA.... L 0.5			
HE....	FE(TOT). N	NB....	S04.. 11.
HR....	GE.....	NI.... L 0.1	
CA.... 2.1	HCO3..... N	NO3.. N	
CA+MG.	HG..... L 0.001	PH... L 0.1	
CD.... L 0.01			
CL.... 83.			
CO....	K..... 0.9		ZN... L 0.02

ISOTOPES (0/001)

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00159

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... ABERCROMBIE WARM SPRINGS

GEOHERM FILE ID# 0075063

LOCATION

COUNTRY..... UNITED STATES TOWNSHIP-RANGE 41N 116W 02 NW OF SW
 STATE..... WYOMING
 COUNTY..... TETON
 GEOLOGIC PROVINCE... 41

COORDINATES

LAT/LONG... 43-32.75 N 110-44.37 W
 UTM ZONE... +12
 NORTHING... 4821249.
 521045.

MAP REFERENCE..... GROS VENTRE JUNCTION 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/09/23
 TEMPERATURE (C)..... 27.0
 DISCHARGE..... 946. L/MIN

WATER ANALYSIS

PH..... 8.3
 SPECIFIC CONDUCTANCE... 348.
 TOTAL DISSOLVED SOLIDS... 192.
 CHARGE IMBALANCE (% DIFF)... 2.8

ANALYSIS IN PPM

AG.... L 0.5	CO3..... N	LI....	S.... L 0.001
AL....	CR..... L 0.1	MG.... 17.	
AS.... L 0.05	CS.....	MN.... L 0.05	
AU....	CU..... L 0.01	MO....	SE... 0.002
H.... 0.1	F..... 0.6	NA.... 7.6	SI02. 14.
HA.... L 0.5			
HE....	FE(TOT). N	NB....	S04.. 20.
HR....	GE.....	NI.... L 0.1	
CA.... 35.	HCO3..... 190.	NO3.. 1.9	
CA+MG.	HG..... L 0.001	PH... L 0.1	
CD.... L 0.01			
CL.... 2.9			
CO....	K..... 2.6		ZN... L 0.02

ISOTOPES (0/001)

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING

DATE/ANALYST..... 1965/06/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

CH₄.. 1.1C₂H₆..CO₂.. 86.H₂... 0.4N₂... 10.7O₂... 0 1.8ISOTOPIES (00/01)

OTHER ANALYTICAL DATA... PH (EST. WITH PH PAPER) = 8.

QUALIFICATION FIELD..... 02 = 02 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-207

REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00162

GEOTERM SAMPLE FILE

NAME OF SAMPLE SOURCE... BLACK SAND BASIN - UNNAMED SPRING

GEOTERM FILE ID: 0020295

LOCATION

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1162500

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-27.7 N 110-51.3 W

OTHER LOCALITY INFORMATION: NORTH OF SPOUTER SPRING, UPPER GEYSER BASIN.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

SAMPLE NUMBER..... 14

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH₄.. 0.4C₂H₆..CO₂.. 71.H₂... NH₂S.. NN₂... 0 23.2O₂... 5.1ISOTOPIES (00/01)

QUALIFICATION FIELD..... N2 = N2 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-176

REFERENCE..... ALLEN AND DAY, 1935.

RECORD 00163

GEOTERM SAMPLE FILE

NAME OF SAMPLE SOURCE... ROYLES HILL SPRINGS

GEOTERM FILE ID: 0075065

LOCATION

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

GEOLOGIC PROVINCE.. 41

MAP REFERENCE..... JACKSON 1124000

TOWNSHIP-RANGE

41N 117W 36 NE OF SW

COORDINATES

LAT/LONG... 43-28.30 N 110-50.08 W

UTM ZONE... +12

NORTHING... 4812992.

513373.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/09/23

TEMPERATURE (C)..... 30.0

DISCHARGE..... 189. L/MIN

OTHER SAMPLE INFORMATION.. CONSISTS OF SEVERAL SMALL SPRINGS AND SEEPS FLOWING FROM THE BASES OF TALUS SLOPES.

WATER ANALYSIS

P-I..... 7.6
 SPECIFIC CONDUCTANCE..... 2380.
 TOTAL DISSOLVED SOLIDS... 2480.
 CHARGE IMBALANCE (% DIFF)... 9.3
 ANALYSIS IN PPM

AG....	CO3..... N	LI...	S....	6.0	ISOTOPES (0/00)
AL....	CR.....	MG... 120.	SI02.	26.	
H..... 0.06	F..... 0.5	NA... 28.	SO4..	1600.	
HE....	FE(TOT)..	NB...			
CA.... 430.	HCO3.... 160.	NO3.. N			
CL.... 3.9					
CO.....	K..... 13.				

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00164

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... GRANITE FALLS HOT SPRINGS
 LOCATION TOWNSHIP-RANGE
 COUNTRY..... UNITED STATES 39N 113W 06 SE OF SE
 STATE..... WYOMING
 COUNTY..... TETON
 GEOLOGIC PROVINCE..

COORDINATES

LAT/LONG... 43-21.90 N 110-26.57 W
 UTM ZONE... +12
 NORTHING... 4801284.
 545145.

GEO THERM FILE ID: 0075066

MAP REFERENCE..... GRANITE FALLS 1124000
 SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/09/22
 TEMPERATURE (C)..... 45.0
 DISCHARGE..... 454. L/MIN

OTHER SAMPLE INFORMATION, CONSISTS OF THREE SEPERATE VENTS
 REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00165

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... GRANITE HOT SPRING
 LOCATION TOWNSHIP-RANGE
 COUNTRY..... UNITED STATES 39N 113W 06 NE OF SE
 STATE..... WYOMING
 COUNTY..... TETON
 GEOLOGIC PROVINCE..

COORDINATES

LAT/LONG... 43-22.20 N 110-26.68 W
 UTM ZONE... +12
 NORTHING... 4801838.
 544993.

GEO THERM FILE ID: 0075067

MAP REFERENCE..... GRANITE FALLS 1124000
 SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/09/22
 TEMPERATURE (C)..... 41.0
 DISCHARGE..... 0 1136. L/MIN

WATER ANALYSIS

P-I..... 8.3
 SPECIFIC CONDUCTANCE..... 1050.
 TOTAL DISSOLVED SOLIDS... 670.
 CHARGE IMBALANCE (% DIFF)... 4.7

ANALYSIS IN PPM

AG.... L 0.5	CO3..... N	LI...	S.... L 0.001	<u>ISOTOPES (0/00)</u>
AL....	CR..... L 0.1	MG... 6.4		
AS.... L 0.05	CS.....	MN... L 0.05		
AU....	CU..... L 0.01	MO...	SE... L 0.001	
H..... 0.61	F..... 6.0	NA... 180.	SI02. 49.	
HA.... L 0.5			S04.. 150.	
HE....	FE(TOT). N	NH...		
HR....	GE.....	NI... L 0.1		
CA.... 32.	HCO3.... 200.	NO3.. 0.5		
CA+MG.	HG..... L 0.001	PB... L 0.1		
CD.... L 0.01				
CL.... 140.				
CO....				
	K..... 8.8			
			ZN... L 0.02	

QUALIFICATION FIELD..... TEMPERATURE HAS VARIED FROM 29 TO 45 DEG C. VARYING INVERSELY WITH FLOW.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00166

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... GRANITE HOT SPRING
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE 39N 113W 06 NE OF SE
 STATE..... WYOMING
 COUNTY..... TETON COORDINATES
 GEOLOGIC PROVINCE.. 41 LAT/LONG... 43-22.20 N 110-26.68 W
 UTM ZONE... 12
 NORTHING... 4801838.
 544993.

HSP REFERENCE..... GRANITE FALLS 112400

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1973/10/02
 TEMPERATURE (C)..... 39.0

WATER ANALYSIS

PH..... 8.0				
SPECIFIC CONDUCTANCE..... 1050.				
TOTAL DISSOLVED SOLIDS... 597.				
CHANGE IMBALANCE (% DIFF)... 1.9				
ANALYSIS IN PPM				<u>ISOTOPES (0/00)</u>
AL....	CR.....	MG... 5.8		
H..... 0.53	F..... 5.3	NA... 160.	SI02. 48.	
HE....	FE(TOT).	NH... 0.2	S04.. 120.	
CA.... 32.	HCO3.... 182.			
CL.... 130.				
CO....				
	K..... 8.6			

QUALIFICATION FIELD..... TEMPERATURE HAS VARIED FROM 29 TO 45 DEG C.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00167

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... HEART LAKE GEYSER BASIN - RUSTIC GROUP - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE COORDINATES
 GEOTHERM FILE ID: 0020479

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... WEST THUMB 1162500
 OTHER LOCALITY INFORMATION: 1000 FT WEST OF HEART LAKE; SW CORNER OF BASIN.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 SAMPLE NUMBER..... 27

LAT/LONG... 44-16.55 N 110-30.20 W

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH ₄ ..	2.4	H ₂ S..	N
C ₂ H ₆ ..		N ₂ ...	0 8.55
CO ₂ ..	88.	O ₂ ...	0.75
H ₂ ...	N		

ISOTOPES (00/0)

OTHER ANALYTICAL DATA... CO = 0.
 QUALIFICATION FIELD... N₂ = N₂ + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEM-328
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00168

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... HILLSIDE GROUP - ASTA SPRING (NO. 3)
 LOCATION
 TOWNSHIP=RANGE

GEO THERM FILE ID: 0020263

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 OTHER LOCALITY INFORMATION: UPPER GEYSER BASIN, WEST SIDE.

COORDINATES

LAT/LONG... 44-28.20 N 110-51.52 W

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00

WATER ANALYSIS

DATE/ANALYST..... 1930/00/00.
 CHARGE IMBALANCE (% DIFF)... 5.9

ANALYSIS IN PPM

AG....	CO ₃ N	LI...	S....	N.
AL.... N				
H....	F.....	NA... 145.	SI02.. 179.	
HE....	FE(TOT). I	NU...	S04.. 16.	
CA.... 9.	MCO ₃ 252.			
CL.... 71.				
CO....	K..... 11.			

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00169

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... HILLSIDE GROUP - ASTA SPRING (NO. 3)
 LOCATION
 TOWNSHIP=RANGE

GEO THERM FILE ID: 0020262

COUNTRY..... UNITED STATES

COORDINATES

LAT/LONG... 44-28.20 N 110-51.52 W

STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 OTHER LOCALITY INFORMATION: UPPER GEYSER BASIN, WEST SIDE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1900/00/00
 SAMPLE NUMBER..... 11

GAS ANALYSIS

DATE/ANALYST..... PHILLIPS, F.C.
 ANALYSIS IN VOLUME %
 CH₄.. 3.3
 C₂H₆..
 CO₂.. 2H.
 H₂.. 0.25
 H₂S.. N
 N₂.. 62.34
 O₂.. 6.3

ISOTOPES 100/01

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEM-169
 REFERENCE..... ALLEN AND DAY, 1935.

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... HILLSIDE GROUP - UNNAMED SPRING
 LOCATION TOWNHIP=RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 OTHER LOCALITY INFORMATION: UPPER GEYSER BASIN, WEST SIDE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 63
 TEMPERATURE (C)..... 84.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 AR.. 0.56
 CH₄.. 0.54
 C₂H₆..
 CO₂.. 48.
 H₂.. N
 H₂S.. 50.95
 O₂.. 1

COORDINATES

LAT/LONG... 44-28.20 N 110-51.52 W

RECORD 00170

GEO THERM FILE 101 0020265

ISOTOPES 100/01

OTHER ANALYTICAL DATA... PH (EST. WITH PH PAPER) = 6.9.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEM-205
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... HILLSIDE GROUP - UNNAMED SPRING
 LOCATION TOWNHIP=RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING

COORDINATES

LAT/LONG... 44-28.20 N 110-51.52 W

RECORD 00171

GEO THERM FILE 101 0020266

COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 UJHEJ LOCALITY INFORMATION: BOTTOM OF HILL ON WESTERN SIDE OF UPPER GEYSER BASIN.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1971/06/14

SAMPLE NUMBER..... 6

TEMPERATURE (C)..... 65.

DISCHARGE..... R 11. L/MIN

OTHER SAMPLE INFORMATION.. SMALL CLEAR POOL 1M IN DIAMETER.

GAS ANALYSIS

DATE/ANALYST..... 1971/06/14 GUNTER, B.O.

ANALYSIS IN MOLE %

AR... 1.3

CH4... 0.28

C2H6..

CO2... 7.5

H2... H

N2... 84.1

O2... 6.9

ISOTOPES (00/01)

OTHER ANALYTICAL DATA... AR/N2=1.56

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-213

REFERENCE..... GUNTER, 1973

RECORD 00172

 GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... HUCKLEBERRY HOT SPRINGS

GEOTHERM FILE ID: 0075072

LOCATION

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

GEOLOGIC PROVINCE..

MAP REFERENCE..... HUCKLEBERRY MOUNTAIN 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1972/00/00

TEMPERATURE (C)..... 0 71.0

OTHER SAMPLE INFORMATION.. MANY SMALL SPRINGS AND SEEPS.

WATER ANALYSIS

PH..... 7.1

CHARGE IMBALANCE (% DIFF)... 1.2

ANALYSIS IN PPM

AL....

H....

HE....

CA.... 12.

CL.... 102.

CO....

CR.....

F..... 10.

FE(TOT)...

HC03.... 372.

K..... 7.8

MG... 1.1

NA... 201.

NB... 124.

NO3.. 0.1

COORDINATES

LAT/LONG... 44-06.88 N 110-41.18 W

UTM ZONE... +12

NORTHING... 4884440.

S25100.

ISOTOPES (0/001)

QUALIFICATION FIELD... OTHER SPRINGS 45 TO 71 DEG C. POSSIBLE SUBSURFACE TEMPERATURE OF 150 C.

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, M. P.

COMPILER AFFILIATION... UNIVERSITY OF WYOMING

REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00173

GEOTHERM FILE ID# 0075069

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... HUCKLEBERRY HOT SPRINGS

LOCATION

COUNTRY..... UNITED STATES TOWNSHIP-RANGE 48N 115W 20 NE OF NW
 STATE..... WYOMING
 COUNTY..... TETON
 GEOLOGIC PROVINCE..

COORDINATES

LAT/LONG... 44-06.88 N 110-41.18 W
 UTM ZONE... +12
 NORTHING... 4884440.
 525100.

MAP REFERENCE..... HUCKLEBERRY MOUNTAIN 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/09/21

TEMPERATURE (C)..... 0 45.0

DISCHARGE..... 1136. L/MIN

OTHER SAMPLE INFORMATION.. MANY SMALL SPRINGS AND SEEPS.

WATER ANALYSIS

PH..... 7.8
 SPECIFIC CONDUCTANCE..... 950.
 TOTAL DISSOLVED SOLIDS... 688.
 CHARGE IMBALANCE (% DIFF)... 9.2

ANALYSIS IN PPM

AG.... L 0.5	CO3.... N	LI....	S.... L 0.001
AL....	CR.... L 0.1	MG... 0.7	
AS.... 0.1	CS....	MN... 0.06	
AU....	CU.... L 0.01		
B.... 0.74	F..... 9.9	NA... 200.	SI02. 170.
BA.... L 0.5			
BF....	FE(TOT). N	NB... 504..	11.
BR....	GE.....	NI... L 0.1	
CA.... 9.5	HCO3... 380.	NO3.. 0.1	
CA-MG.	HG..... 0.029	PB... L 0.1	
CD.... L 0.41			
CL.... 120.			
CO....	K..... 8.6		
			ZN... L 0.02

ISOTOPES (0/00)

QUALIFICATION FIELD..... OTHER SPRINGS 45 TO 71 DEG C. POSSIBLE SUBSURFACE TEMPERATURE OF 150 C.

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00174

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID# 0075071

NAME OF SAMPLE SOURCE... HUCKLEBERRY HOT SPRINGS

LOCATION

COUNTRY..... UNITED STATES TOWNSHIP-RANGE 48N 115W 20 NE OF NW
 STATE..... WYOMING
 COUNTY..... TETON
 GEOLOGIC PROVINCE..

COORDINATES

LAT/LONG... 44-06.88 N 110-41.18 W
 UTM ZONE... +12
 NORTHING... 4884440.
 525100.

MAP REFERENCE..... HUCKLEBERRY MOUNTAIN 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1975/00/00

TEMPERATURE (C)..... 0 61.0

OTHER SAMPLE INFORMATION.. MANY SMALL SPRINGS AND SEEPS.

WATER ANALYSIS

TOTAL DISSOLVED SOLIDS... 837.
 CHARGE IMBALANCE (% DIFF)... 5.3
 ANALYSIS IN PPM

AG....		CO3.....	N				
AL....		CR.....		MG...	2.		
H.....		F.....		NA...	197.	SI02.	118.
HE....		FE(TOT).		NB...		S04..	14.
CA....	14.	HCO3....	375.				
CL....	101.						
CO....		K.....	14.				

ISOTOPES (0/00)

QUALIFICATION FIELD... OTHER SPRINGS 45 TO 71 DEG C. POSSIBLE SUBSURFACE TEMPERATURE OF 150 C.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND MINCKLEY, 1978

RECORD 00175

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0075070

NAME OF SAMPLE SOURCE... HUCKLEBERRY HOT SPRINGS

LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP=RANGE
 STATE..... WYOMING 48N 115W 20 NE OF NW
 COUNTY..... TETON
 GEOLOGIC PROVINCE..

COORDINATES
 LAT/LONG... 44-06.88 N 110-41.18 W
 UTM ZONE... +12
 NORTING... 4884440.
 525100.

MAP REFERENCE..... HUCKLEBERRY MOUNTAIN 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/10/02
 TEMPERATURE (C)..... 0 61.0
 OTHER SAMPLE INFORMATION.. MANY SMALL SPRINGS AND SEEPS.

WATER ANALYSIS

PH..... 7.4
 SPECIFIC CONDUCTANCE..... 950.
 TOTAL DISSOLVED SOLIDS... 613.
 CHARGE IMBALANCE (% DIFF)... 3.7
 ANALYSIS IN PPM

AL....		CR.....		MG...	0.4		
H.....	0.46	F.....	8.7	NA...	200.	SI02.	110.
HE....		FE(TOT).		NB...		S04..	9.9
CA....	11.	HCO3....	360.	NO3..	N		
CL....	92.						
CO....		K.....	8.6				

ISOTOPES (0/00)

QUALIFICATION FIELD... OTHER SPRINGS 45 TO 71 DEG C. POSSIBLE SUBSURFACE TEMPERATURE OF 150 C.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND MINCKLEY, 1978

RECORD 00176

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0075073

NAME OF SAMPLE SOURCE... JACKSON LAKE HOT SPRINGS

LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP=RANGE
 STATE..... WYOMING
 COUNTY..... TETON

COORDINATES
 LAT/LONG... 43-57.50 N 110-41.75 W
 UTM ZONE... +12
 NORTING... 4867074.

GEOLOGIC PROVINCE.. 41
 MAP REFERENCE..... COLTRM HAY 1124000 524404.
 OTHER LOCALITY INFORMATION: SPRING NORMALLY COVERED BY JACKSON LAKE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1977/00/00
 TEMPERATURE (C)..... 0 72.0
 DISCHARGE..... 0
 OTHER SAMPLE INFORMATION.. LOW LAKE LEVELS HAVE EXPOSED A NUMBER OF SPRINGS.
 QUALIFICATION FIELD..... SPRINGS RANGE IN TEMPERATURE FROM 24 TO 72 DEG C. FLOW IS "GREAT"
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00177

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0075074

NAME OF SAMPLE SOURCE... KELLY WARM SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 42N 115W 02 NE OF NW
 STATE..... WYOMING
 COUNTY..... TETON

LAT/LONG... 43-38.37 N 110-36.92 W
 UTM ZONE... +12
 NORTHING... 4831690.
 531027.

GEOLOGIC PROVINCE.. 41
 MAP REFERENCE..... SHADOW MOUNTAIN 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/09/21

TEMPERATURE (C)..... 27.0

OTHER SAMPLE INFORMATION.. ONE LARGE POOL WITH MANY SMALL VENTS.

WATER ANALYSIS

PH..... 8.2
 SPECIFIC CONDUCTANCE..... 450.
 TOTAL DISSOLVED SOLIDS... 284.
 CHARGE IMBALANCE (% DIFF)... 2.7

ANALYSIS IN PPM

		ISOTOPES (0/00)	
AG....	CO3..... N	LI....	S.... L 0.001
AL....	CR.....	MG.... 18.	
H.... 0.05	F..... 0.9	NA.... 7.6	SI02. 18.
HE....	FE(TOT)..	NB....	S04.. 78.
CA.... 54.	HCO3.... 180.	NO3.. 0.3	
CL.... 3.1			
CO....	K..... 3.0		

REFERENCE AND IDENTIFICATION

COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00178

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020360

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - IMPERIAL GEYSER

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

LAT/LONG... 44-31.47 N 110-52.32 W

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: SOUTHWEST CORNER OF BASIN BY TWIN BUTTES.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 33
 TEMPERATURE (C)..... 87.

GAS ANALYSIS

DATE/ANALYST..... 1965/06 GUNTER, B.U. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH₄... 0.16
 C₂H₆.....
 CO₂... 96.
 H₂... L 0.4
 N₂... 3.67
 O₂... U 0.67

ISOTOPES (00/01)

OTHER ANALYTICAL DATA... PH = 8.8.

QUALIFICATION FIELD..... 02 = 02 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-245
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00179

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - BATH SPRING
 LOCATION TOWNSHIP-RANGE

GEO THERM FILE ID: 0020379

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1162500

COORDINATES

LAT/LONG... 44-32.2 N 110-50. W

OTHER LOCALITY INFORMATION: RIVER GROUP.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 87

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER, B.U. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

AR... 1.1
 CH₄... N
 C₂H₆.....
 CO₂... 26.
 H₂... N
 N₂... 54.95
 O₂... 24.

ISOTOPES (00/01)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-259
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00180

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - BATH SPRING
 LOCATION TOWNSHIP-RANGE

GEO THERM FILE ID: 0020378

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1162500
 OTHER LOCALITY INFORMATION: RIVER GROUP.

COORDINATES

LAT/LONG... 44-33.2 N 110-50. W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00
 ..SAMPLE NUMBER..... 22

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH ₄ ..	0.35	H ₂ S..	N	
C ₂ H ₆ ..		N ₂ ...	0	12.85
CO ₂ ..	85.	O ₂ ...		1.3
H ₂ ...	0.5			

ISOTOPES (00/00)

QUALIFICATION FIELD..... N2 = N2 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-236
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00181

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - FIREHOLE LAKE
 LOCATION

GEOHERM FILE ID: 0020367

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: EAST OF HOT LAKE.

COORDINATES

LAT/LONG... 44-32.30 N 110-47.02 W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

WATER ANALYSIS

DATE/ANALYST..... 1930/00/00

ANALYSIS IN PPM

AG....	CO ₃	N		
HE....	FE(TOT).	NB...	S04..	41.
CA....	HCO ₃			146.
CL....	63.			

ISOTOPES (0/00)REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00182

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - FIREHOLE POOL
 LOCATION

GEOHERM FILE ID: 0020369

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: EAST OF FIREHOLE LAKE.

COORDINATES

LAT/LONG... 44-32.30 N 110-46.98 W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00 GUNTER AND MUSGRAVE

SAMPLE NUMBER..... 28

TEMPERATURE (C)..... 90.5

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER, B.O. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH₄.. 1.5
 C₂H₆..
 CO₂.. 50.
 H₂.. L 0.4

N₂... 37.37
 O₂... W 11.

ISOTOPES 100201

OTHER ANALYTICAL DATA... PH = 8.4.
 QUALIFICATION FIELD... O₂ = O₂ + AR.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-240
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00183

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - FIREHOLE POOL
 LOCATION TOWNSHIP-RANGE

GEO THERM FILE ID: 0020368

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1162500
 OTHER LOCALITY INFORMATION: EAST OF FIREHOLE LAKE.

COORDINATES

LAT/LONG... 44-32.30 N 110-46.98 W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00
 SAMPLE NUMBER..... 25

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH₄.. 1.6
 C₂H₆..
 CO₂.. 63.
 H₂.. N

H₂S.. N
 N₂... 29.95
 O₂... 5.5

ISOTOPES 100201

QUALIFICATION FIELD... N₂ = N₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-239
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00184

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - FIREHOLE POOL
 LOCATION TOWNSHIP-RANGE

GEO THERM FILE ID: 0020370

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1162500
 OTHER LOCALITY INFORMATION: EAST OF FIREHOLE LAKE.

COORDINATES

LAT/LONG... 44-32.30 N 110-46.98 W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/07/00
 SAMPLE NUMBER..... 81
 POINT OF COLLECTION.. EAST END OF POOL

TEMPERATURE (C)..... 91.

GAS ANALYSIS

DATE/ANALYST..... 1965/07/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

AR...	0.03		
CH ₄ ..	0.04		
C ₂ H ₆ ..		N ₂ ...	3.84
CO ₂ ..	95.	O ₂ ...	1.3
H ₂ ...	N		

ISOTOPES (0070)

OTHER ANALYTICAL DATA... PH = 7.5 (EST. WITH PH PAPER).

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-258
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00185

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020365

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - FISSURE GROUP - EBONY SPRING 33

LOCATION

TOWNSHIP=RANGE

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

LAT/LONG... 44-31.4 N 110-47.7 W

MAP REFERENCE..... MADISON JUNCTION 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1900/00/00

SAMPLE NUMBER..... IV

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH ₄ ..	I	H ₂ S..	N
C ₂ H ₆ ..		N ₂ ...	13.8
CO ₂ ..	83.	O ₂ ...	1.5
H ₂ ...	1.8		

ISOTOPES (0070)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-232
 REFERENCE..... ALLEN AND DAY, 1935.

RECORD 00186

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020364

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - FOUNTAIN GROUP - FOUNTAIN GEYSER

LOCATION

TOWNSHIP=RANGE

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

LAT/LONG... 44-32.6 N 110-48.4 W

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: EASTERN EDGE OF BASIN NORTH OF TANGLED CREEK.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1900/00/00

SAMPLE NUMBER..... V

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH ₄ ..	3.8	H ₂ S..	N
C ₂ H ₆ ..		N ₂ ...	10.35
CO ₂ ..	84.	O ₂ ...	1.6
H ₂ ...	0.54		

ISOTOPES (0070)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-233
 REFERENCE..... ALLEN AND DAY, 1935.

RECORD 00187

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - GREAT FOUNTAIN GROUP - DIAMOND SPRING
 LOCATION TOWNSHIP=RANGE COORDINATES
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1162500
 OTHER LOCALITY INFORMATION: SOUTHEAST EDGE OF BASIN.
 LAT/LONG... 44-31.6 N 110-47.5 W

GEOHERM FILE ID: 0020363

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 104
 TEMPERATURE (C)..... 84.0

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %

ISOTOPES (00201)

CH ₄ ..	2.3	N ₂ ..	87.46
C ₂ H ₆ ..		O ₂ ..	0 6.5
CO ₂ ..	3.7		
H ₂ ..	N		

OTHER ANALYTICAL DATA... PH = 8. (EST. WITH PH PAPER).
 QUALIFICATION FIELD..... O₂ = O₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-261
 REFERENCE..... GUNTER AND MUSGRAVE, 1966.

RECORD 00188

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - GREAT FOUNTAIN GROUP - DIAMOND SPRING
 LOCATION TOWNSHIP=RANGE COORDINATES
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1162500
 OTHER LOCALITY INFORMATION: SOUTH EASTERN EDGE OF BASIN.
 LAT/LONG... 44-31.6 N 110-47.5 W

GEOHERM FILE ID: 0020362

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00
 SAMPLE NUMBER..... 24

GAS ANALYSIS

ANALYSIS IN VOLUME %

ISOTOPES (00201)

CH ₄ ..	5.	H ₂ S..	4
C ₂ H ₆ ..		H ₂ ..	0 49.3
CO ₂ ..	44.	O ₂ ..	1.8
H ₂ ..	N		

QUALIFICATION FIELD..... N₂ = N₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-23B
 REFERENCE..... ALLEN AND DAY, 1935.

RECORD 00189

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020358

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - IMPERIAL GEYSER
 LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-31.47 N 110-52.32 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: SOUTHWEST CORNER OF BASIN, BY TWIN BUTTES.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

SAMPLE NUMBER..... 20

DEPOSITS OR ALTERATION... SILICA SINTER DEPOSITS

OTHER SAMPLE INFORMATION.. TEMPERATURE = 99.9 DEGREES C AT A DEPTH OF 72 FT. SEPTEMBER 1929.

WATER ANALYSIS

CHARGE IMBALANCE (% DIFF)... 0.3

ANALYSIS IN PPM

AG.... CO3..... 129.

AL.... N CR.....

H.... F..... 15.

HE.... FE(TOT).. 2.

CA.... 2. HCO3.... 127.

CL.... 206.

CO.... K..... 18.

ISOTOPES (0/00)

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH4.. 0.35

C2H6.. 86.

H2... N

H2S.. N

N2... 0 11.8

O2... 2.0

ISOTOPES (00/0)

OTHER ANALYTICAL DATA... S2O3 = 2. PPM.

QUALIFICATION FIELD... N2 = N2 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-234

REFERENCE..... ALLEN AND DAY, 1935.

RECORD 00190

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020359

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - IMPERIAL GEYSER
 LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-31.47 N 110-52.32 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: SOUTHWEST CORNER OF BASIN BY TWIN BUTTES.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00

SAMPLE NUMBER..... 32
 TEMPERATURE (C)..... 89.
 WATER ANALYSIS
 ANALYSIS
 H..... F..... NA... SI02. 0.27
 GAS ANALYSIS
 DATE/ANALYST..... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 C2H6. N2... 7.97
 CO2.. O2... 0 1.8
 H2... L 0.4

ISOTOPES (0/00)

ISOTOPES (00/00)

QUALIFICATION FIELD..... Q2 = O2 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-244
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00191

GEOHERM SAMPLE FILE

GEOHERM FILE 101 0020366

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - KALEIDOSCOPE GROUP - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE COORDINATES
 COUNTRY..... UNITED STATES LAT/LONG... 44-31.5 N 110-48.5 W
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1162500
 OTHER LOCALITY INFORMATION: ONE THIRD MILE NORTHWEST OF FOUNTAIN GROUP.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 SAMPLE NUMBER..... 23
 GAS ANALYSIS
 ANALYSIS IN VOLUME %
 CH4.. 1.0 H2S.. N
 C2H6. N2... W 36.25
 CO2.. 55. O2... 7.2
 H2... N

ISOTOPES (00/00)

QUALIFICATION FIELD..... N2 = N2 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-237
 REFERENCE..... ALLEN AND JAY, 1935.

RECORD 00192

GEOHERM SAMPLE FILE

GEOHERM FILE 101 0020383

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE COORDINATES
 COUNTRY..... UNITED STATES LAT/LONG... 44-34.01 N 110-48.23 W
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1162500
 OTHER LOCALITY INFORMATION: 40M NORTH OF DIRT ROAD, 1/2 MILE EAST OF HIGHWAY; PORCUPINE HILLS.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1971/06/07 GUNTER, B.D.

SAMPLE NUMBER..... 74

GAS ANALYSIS

DATE/ANALYST..... 1971/06/00 GUNTER, B.D.

ANALYSIS IN MOLE %

AR... 0.12

CH₄... 0.52C₂H₆...CO₂... 94.N₂... 4.65O₂... 0.47ISOTOPES (00/01)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-269

RECORD 00193

GEOHEM SAMPLE FILE

GEOHEM FILE ID# 0020382

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNNAMED SPRING

LOCATION TOWNSHIP=RANGE

COORDINATES

COUNTRY..... UNITED STATES

LAT/LONG... 44-34.00 N 110-48.23 W

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1:62500

OTHER LOCALITY INFORMATION: PORCUPINE HILLS; 1/2 MILE EAST OF HIGHWAY; 30M NORTH OF DIRT ROAD.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/07/00 GUNTER AND MUSGRAVE

SAMPLE NUMBER..... 74

TEMPERATURE (C)..... 29.5

OTHER SAMPLE INFORMATION.. SHALLOW CLEAR POOL.

GAS ANALYSIS

DATE/ANALYST..... 1965/07/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

AR... 0.04

CH₄... 0.45C₂H₆...CO₂... 96.N₂... 2.63O₂... 0.9ISOTOPES (00/01)

OTHER ANALYTICAL DATA... PH=5.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-251

REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00194

GEOHEM SAMPLE FILE

GEOHEM FILE ID# 0020386

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNNAMED SPRING

LOCATION TOWNSHIP=RANGE

COORDINATES

COUNTRY..... UNITED STATES

LAT/LONG... 44-34.00 N 110-48.22 W

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1:62500

OTHER LOCALITY INFORMATION: PORCUPINE HILLS; ABOUT 20M EAST OF NO. 74

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1971/06/07 GUNTER, B.D.

SAMPLE NUMBER..... 76
 TEMPERATURE (C)..... 75.
 DISCHARGE..... R 4. L/MIN
 OTHER SAMPLE INFORMATION.. SHALLOW MUDDY POOL. FLOW RATE OF 4.1 L/MIN ON 7/10/72.

GAS ANALYSIS

DATE/ANALYST..... 1971/06/00 GUNTER, B.D.

ANALYSIS IN MOLE %

AR... 0.56

CH4... 1.5

C2H6... 60.

CO2... 60.

N2... 27.7

O2... 2.1

ISOTOPES (00201)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILED CROSS INDEX... NEH-270

REFERENCE..... GUNTER, 1973

RECORD 00195

GEOHERM SAMPLE FILE

GEOHERM FILE 101 0020385

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNNAMED SPRING

LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-34.00 N 110-48.25 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: PORCUPINE HILLS; 30M WEST OF NO. 74

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/07/00 GUNTER AND MUSGRAVE

SAMPLE NUMBER..... 76

TEMPERATURE (C)..... 75.

GAS ANALYSIS

DATE/ANALYST..... 1965/07/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

AR... 0.34

CH4... 1.6

C2H6... 80.

CO2... 80.

H2... L 0.4

N2... 16.42

O2... 1.4

ISOTOPES (00201)

OTHER ANALYTICAL DATA... PH = 7.6.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILED CROSS INDEX... NEH-253

REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00196

GEOHERM SAMPLE FILE

GEOHERM FILE 101 0020384

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNNAMED SPRING

LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-34.00 N 110-48.23 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: ONE METER SOUTH OF NO. 741 PORCUPINE HILLS.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/07/00 GUNTER AND MUSGRAVE

SAMPLE NUMBER..... 75

TEMPERATURE (C)..... 29.

GAS ANALYSIS

DATE/ANALYST..... 1965/07/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

AR... 0.01

CH₄... 0.3

C₂H₆...

CO₂... 96.

H₂... L 0.4

N₂... 3.44

O₂... 0.36

ISOTOPES (00/0)

OTHER ANALYTICAL DATA... PH = 5.2.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-252

REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00197

GEOHEM SAMPLE FILE

GEOHEM FILE 101 0020400

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - MOUND SPRING

LOCATION... TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-33.52 N 110-51.42 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: 366M SOUTHEAST OF SENTINEL CONE, SENTINEL GROUP.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00

SAMPLE NUMBER..... 117

TEMPERATURE (C)..... 94.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH₄... 0.75

C₂H₆...

CO₂... 1

H₂... L 9.4

N₂... 96.46

O₂... 0 2.8

ISOTOPES (00/0)

QUALIFICATION FIELD..... O₂ = O₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-266

REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00198

GEOHEM SAMPLE FILE

GEOHEM FILE 101 0020392

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - QUEEN'S LAUNDRY

LOCATION... TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-33.47 N 110-52.10 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

OTHER LOCALITY INFORMATION: SENTINEL MEADOWS; 940 FT. SOUTH OF SENTINEL CREEK.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

WATER ANALYSIS

DATE/ANALYST..... 1930/00/00

ANALYSIS IN PPM

AG....	CO3.....	21.			
HE....	FE(TOT)...		NH...	S04...	37.
CA....	HCO3.....	368.			
CL....		115.			

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00199

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020381

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - RIVER GROUP - UNNAMED SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES			LAT/LONG...	44-33.	N 110-50.	W
STATE.....	WYOMING						
COUNTY.....	TETON						

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: JUM S-SW OF SKELETON POOL.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1971/06/07 GUNTER, H.D.

SAMPLE NUMBER..... 89

TEMPERATURE (C)..... 63.

DISCHARGE..... R 3.5 L/MIN

OTHER SAMPLE INFORMATION.. LARGE GREEN POOL WITH NO RUNOFF.

GAS ANALYSIS

DATE/ANALYST..... 1971/06/00 GUNTER, H.D.

ANALYSIS IN MOLE%

AH...	1.2				
CH4...	4.5				
C2H6...		N2...	68.9		
CO2...	19.	O2...	6.3		
H2...	T.				

ISOTOPES (00/01)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-271
 REFERENCE..... GUNTER, 1973

RECORD 00200

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020380

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - RIVER GROUP - UNNAMED SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES			LAT/LONG...	44-33.	N 110-50.	W
STATE.....	WYOMING						
COUNTY.....	TETON						

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: JUM S-SW OF SKELETON POOL.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/07/00
 SAMPLE NUMBER..... 89
 TEMPERATURE (C)..... 64.
 GAS ANALYSIS
 DATE/ANALYST..... 1965/07/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

AR...	1.1		
CH ₄ ...	1.3		
C ₂ H ₆ ...		N ₂ ...	62.84
CO ₂ ...	28.	O ₂ ...	5.4
H ₂ ...	0.95		

ISOTOPES (00/0)

OTHER ANALYTICAL DATA... PH = 7.8.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-260
 REFERENCE..... GUNTER AND MUSGRAVE, 1966.

RECORD 00201

GEOTHERM SAMPLE FILE

GEOTHERM FILE NO: 0020377

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - RIVER GROUP - OJO CALIENTE SPRING

LOCATION TETON COUNTY WYOMING TETON COUNTY WYOMING TETON COUNTY WYOMING

COORDINATES

LAT/LONG... 44-33.18 N 110-49.51 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: SOUTHWEST OF RUSH LAKE, EAST BANK OF FIREHOLE RIVER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/07/00

SAMPLE NUMBER..... 77

TEMPERATURE (C)..... 94.5

GAS ANALYSIS

DATE/ANALYST..... 1965/07/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

AR...	0.35		
CH ₄ ...	2.6		
C ₂ H ₆ ...		N ₂ ...	26.09
CO ₂ ...	71.	O ₂ ...	T
H ₂ ...	T		

ISOTOPES (00/0)

OTHER ANALYTICAL DATA... PH = 8.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-254
 REFERENCE..... GUNTER AND MUSGRAVE, 1966.

RECORD 00202

GEOTHERM SAMPLE FILE

GEOTHERM FILE NO: 0020376

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - RIVER GROUP - OJO CALIENTE SPRING

LOCATION TETON COUNTY WYOMING TETON COUNTY WYOMING TETON COUNTY WYOMING

COORDINATES

LAT/LONG... 44-33.18 N 110-49.51 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: SOUTHWEST OF RUSH LAKE, EAST BANK OF FIREHOLE RIVER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

SAMPLE NUMBER..... 21

DEPOSITS OR ALTERATION..... INCrustATION OF SULFUR ON A SINTER BORDER.

OTHER SAMPLE INFORMATION.. LARGE, DEEP POOL WITH SUPERHEATED WATER, AND HIGH DISCHARGE RATE.

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH₄.. 0.8

C₂H₆..

CO₂.. 0.00

H₂... 0.15

H₂S.. T

N₂... 0 19.15

O₂... N

ISOTOPES (00/01)

QUALIFICATION FIELD..... CO₂ = CO₂ + H₂S; N₂ = N₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEM-235

REFERENCE..... ALLEN AND DAY, 1935

RECORD 00203

GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0020389

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - SENTINEL CONE

LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-33.43 N 110-51.45 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: SOUTH SIDE OF SENTINEL CREEK IN SENTINEL MEADOWS.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

WATER ANALYSIS

DATE/ANALYST..... 1930/00/00

ANALYSIS IN PPM

AG.... CO₃..... 13.

HE.... FE(TOT)..

CA.... HCO₃..... 279.

NB...

S04... 21.

CL.... 259.

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... ALLEN AND DAY, 1935

RECORD 00204

GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0020391

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - SENTINEL GROUP - SENTINEL CONE ("STEEP CONE")

LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-33.43 N 110-51.45 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: SOUTH SIDE OF SENTINEL CREEK IN SENTINEL MEADOWS.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1971/06/15 GUNTER, B.O.

SAMPLE NUMBER..... 109

TEMPERATURE (C)..... 93.
DISCHARGE..... 18. L/MIN
OTHER SAMPLE INFORMATION.. "STEEP CONE."

GAS ANALYSIS

DATE/ANALYST..... 1971/06/00 GUNTER, B.O.

ANALYSIS IN MOLE %

AR...	1.4		
CH ₄ ...	3.4		
C ₂ H ₆ ...		N ₂ ...	85.
CO ₂ ...	8.9	O ₂ ...	1.2
H ₂ ...	N		

ISOTOPES (00/01)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX... NEH-272
REFERENCE..... GUNTER, 1973

RECORD 00205

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - SENTINEL GROUP - SENTINEL CONE ("STEEP CONE")

GEO THERM FILE ID: 0020390

LOCATION

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: SOUTH SIDE OF SENTINEL CREEK IN SENTINEL MEADOWS.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00

SAMPLE NUMBER..... 109

TEMPERATURE (C)..... 93.5

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER, B.O. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH ₄ ...	1.4		
C ₂ H ₆ ...		N ₂ ...	29.45
CO ₂ ...	68.	O ₂ ...	1.3
H ₂ ...	L 0.4		

ISOTOPES (00/01)

QUALIFICATION FIELD..... O₂ = O₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX... NEH-262
REFERENCE..... GUNTER AND MUSGRAVE, 1966.

RECORD 00206

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - SENTINEL GROUP - QUEEN'S LAUNDRY

GEO THERM FILE ID: 0020393

LOCATION

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: SENTINEL MEADOWS 1 940 FT. SOUTH OF SENTINEL CREEK.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00 GUNTER AND MUSGRAVE
 SAMPLE NUMBER..... 111
 TEMPERATURE (C)..... 69.5

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH₄... 0.11
 C₂H₆... N₂... 27.34
 CO₂... 67. O₂... 0 5.3
 H₂... L 0.4

ISOTOPIES (00/01)

OTHER ANALYTICAL DATA... PH = 8.3.

QUALIFICATION FIELD..... 02 = 02 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-264
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00207

 GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0020395

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - SENTINEL GROUP - UNNAMED SPRING

LOCATION

TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-33.45 N 110-52.10 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: 40M SOUTH OF QUEEN'S LAUNDRY.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00

SAMPLE NUMBER..... 110

TEMPERATURE (C)..... 69.5

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH₄... 1.2
 C₂H₆... N₂... 79.89
 CO₂... 16. O₂... 0 3.3
 H₂... L 0.4

ISOTOPIES (00/01)

OTHER ANALYTICAL DATA... PH = 7.4

QUALIFICATION FIELD..... 02 = 02 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-263
 REFERENCE..... GUNTER AND MUSGRAVE, 1966.

RECORD 00208

 GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0020394

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - SENTINEL GROUP - QUEEN'S LAUNDRY

LOCATION

TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-33.47 N 110-52.10 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: SENTINEL MEADOWS; 940 FT. SOUTH OF SENTINEL CREEK.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1971/06/16 GUNTER, B.D.

SAMPLE NUMBER..... 111

TEMPERATURE (C)..... 96.

DISCHARGE..... M 4HR. L/MIN

OTHER SAMPLE INFORMATION.. FLOW RATE OF 425. L/MIN ON 7/11/72.

GAS ANALYSIS

DATE/ANALYST..... 1971/06/00 GUNTER, B.D.

ANALYSIS IN MOLE %

AR... 1.5

CH₄... 2.2

C₂H₆...

CO₂... 16.

N₂... 75.6

O₂... 4.5

ISOTOPES (00/01)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-273

REFERENCE..... GUNTER, 1973

RECORD 00209

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - SENTINEL GROUP - MOUND SPRING

GEOTHERM FILE ID: 0020399

LOCATION

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-33.52 N 110-51.42 W

OTHER LOCALITY INFORMATION: 366M SOUTHEAST OF SENTINEL CONE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

WATER ANALYSIS

DATE/ANALYST..... 1930/00/00

ANALYSIS IN PPM

AG... CO₃... 64.

BE... FE(TOT)...

CA... HCO₃... 183.

NB...

SO₄... 16.

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... ALLEN AND DAY, 1935

RECORD 00210

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - SENTINEL GROUP - UNNAMED SPRING

GEOTHERM FILE ID: 0020398

LOCATION

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-34.02 N 110-51.52 W

OTHER LOCALITY INFORMATION: 150M NORTHWEST OF SENTINEL CONE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 112
 TEMPERATURE (C)..... 92.
 GAS ANALYSIS
 DATE/ANALYST..... 1965/00/00 GUNTER, B.O. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 CH4... 0.15
 C2HD...
 CO2... 95.
 H2... L 0.4
 N2... 5.53
 O2... 0 0.35

OTHER ANALYTICAL DATA... PH = 8.
 QUALIFICATION FIELD... U2 = O2 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-265
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

ISOTOPES 100/01

RECORD 00211

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - SENTINEL GROUP - FLAT CONE SPRING
 LOCATION TOWNSHIP=RANGE COORDINATES
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1162500
 OTHER LOCALITY INFORMATION: 1200 FT. NW OF SENTINEL CONE IN SENTINEL MEADOWS.
 GEOTHERM FILE 101 0020397
 LAT/LONG... 44-34.05 N 110-51.48 W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00
 WATER ANALYSIS
 DATE/ANALYST..... 1930/00/00
 ANALYSIS IN PPM
 AR.... CO3.... 15.
 HE.... FE(TOT)...
 CA.... HCO3.... 322.
 CL.... 219.
 NO... 504.. 12.

ISOTOPES 10/001

REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00212

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - SENTINEL GROUP - ROSETTE GEYSER
 LOCATION TOWNSHIP=RANGE COORDINATES
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1162500
 OTHER LOCALITY INFORMATION: 450 FT. NW OF FLAT CONE SPRING IN SENTINEL MEADOWS.
 GEOTHERM FILE 101 0020396
 LAT/LONG... 44-34.08 N 110-51.53 W

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 WATER ANALYSIS

DATE/ANALYST..... 1930/00/00

ANALYSIS IN PPM
 AG.... CO3.... 43. ISOTOPES (0/00)
 HE.... FE(TOT). NB... S04... 21.
 CA.... HCO3.... 273.
 CL.... 224.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00213

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020387

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - SURPRISE POOL
 LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-32.00 N 110-47.57 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: NEXT TO ROAD, NORTH SIDE OF WHITE CREEK, WEST OF GREAT FOUNTAIN GEYSER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 14

TEMPERATURE (C)..... 85.

OTHER SAMPLE INFORMATION.. SMALL WATER POOL.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 MAZUR AND WASSERBURG

ANALYSIS IN MOLE %

AR... 0.076
 CH4... 2.5
 C2H6...
 CO2...
 HE... 0.001

H2S.. N
 N2... 3.1
 O2... 1.6

ISOTOPES (00/0)

OTHER ANALYTICAL DATA... NE = $9.7 \times 10(-5)$; KH = $1.5 \times 10(-5)$; XE = $2.3 \times 10(-6)$ IPH=7.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-274

REFERENCE..... MAZUR AND WASSERBURG, 1965

RECORD 00214

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020361

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - UNNAMED MUD POT
 LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-32. N 110-53. W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: WEST OF IMPERIAL GEYSER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 34

TEMPERATURE (C)..... 61.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH₄.. 0.49C₂H₆..CO₂.. H₂..H₂.. L 0.4H₂... 11.43O₂... 0 3.7

ISOTOPES (00/01)

OTHER ANALYTICAL DATA... PH = 3.3.
 QUALIFICATION FIELD... U2 = O2 + AK.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-246
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00215

GEOHEM SAMPLE FILE

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - UNNAMED SPRING
 LOCATION..... TOWNSHIP=RANGE

GEOHEM FILE ID: 0020388

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

COORDINATES

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00

SAMPLE NUMBER..... 18

TEMPERATURE (C)..... 90.

OTHER SAMPLE INFORMATION.. SMALL BOILING WATER POOL.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 MAZUR AND WASSERBURG

ANALYSIS IN MOLE %

AR... 0.162

CH₄... 5.4C₂H₆..CO₂... H₂..

HE... 0.0074

H₂S.. NN₂... 6.6O₂... 1.3

ISOTOPES (00/01)

OTHER ANALYTICAL DATA... NE = 1.52×10^{-4} ; KR = 3.4×10^{-5} ; XE = 5.6×10^{-6} ; PH=7.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-275
 REFERENCE..... MAZUR AND WASSERBURG, 1965

RECORD 00216

GEOHEM SAMPLE FILE

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - UNNAMED SPRING
 LOCATION..... TOWNSHIP=RANGE

GEOHEM FILE ID: 0020375

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

COORDINATES

LAT/LONG... 44-32.2 N 110-47.30 W

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: 30 M NORTH OF HEAD GEYSER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00

SAMPLE NUMBER..... 30

TEMPERATURE (C)..... 75.

OTHER SAMPLE INFORMATION.. CLEAR POOL WITH NO OVERFLOW.

GAS ANALYSIS
 DATE/ANALYST..... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 CH₄.. 1.5
 C₂H₆.. N₂... 44.79
 CO₂.. 46. O₂... 0 7.6
 H₂... L 0.4

ISOTOPES (00/01)

QUALIFICATION FIELD..... 02 = 02 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-242
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00217

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020374

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-31.58 N 110-47.48 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: 50M EAST OF HIGHWAY, ACROSS FROM SURPRISE POOL.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00

SAMPLE NUMBER..... 29

TEMPERATURE (C)..... 88.5

OTHER SAMPLE INFORMATION.. LARGE CLEAR POOL.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH₄.. 0.23C₂H₆..N₂... 92.19CO₂.. 1O₂... 0 7.6H₂... L 0.4

OTHER ANALYTICAL DATA... PH = 9.

QUALIFICATION FIELD..... 02 = 02 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-241

REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00218

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020371

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-32.29 N 110-46.57 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: S-SE SIDE OF FIREHOLE LAKE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/07/00

SAMPLE NUMBER..... 78
 TEMPERATURE (C)..... 91.

OTHER SAMPLE INFORMATION.. SMALL WHITE SPRING.

GAS ANALYSIS

DATE/ANALYST..... 1965/07/00 GUNTER, B.O. AND MUSGRAVE, B.C.

ANALYSIS IN MOLES %

AR...	0.44		
CH ₄ ...	0.11		
C ₂ H ₆ ...		N ₂ ...	31.6
CO ₂ ...	53.	O ₂ ...	15.
H ₂ ...	L 0.4		

ISOTOPES (00/01)

OTHER ANALYTICAL DATA... PH = 7.5 (EST. WITH PH PAPER).

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-255
 REFERENCE..... GUNTER AND MUSGRAVE, 1966.

RECORD 00219

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - UNNAMED SPRING

GEO THERM FILE ID: 0020373

LOCATION

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-32. N 110-47. W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: IN SOUTH OF YOUNG HOPEFUL GEYSER, BY FIREHOLE LAKE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/07/00

SAMPLE NUMBER..... 80

TEMPERATURE (C)..... 93.

GAS ANALYSIS

DATE/ANALYST..... 1965/07/00 GUNTER, B.O. AND MUSGRAVE, B.C.

ANALYSIS IN MOLES %

AR...	0.36		
CH ₄ ...	0.18		
C ₂ H ₆ ...		N ₂ ...	3.23
CO ₂ ...	96.	O ₂ ...	0.91
H ₂ ...	N		

ISOTOPES (00/01)

OTHER ANALYTICAL DATA... PH = 7.5 (EST. WITH PH PAPER).

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-257
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00220

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - UNNAMED SPRING

GEO THERM FILE ID: 0020372

LOCATION

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-32. N 110-47. W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION 8M WEST OF YOUNG HOPEFUL GEYSER, BY FIREHOLE LAKE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/07/00

SAMPLE NUMBER..... 79

TEMPERATURE (C)..... 92.

DEPOSITS OR ALTERATION.... CARBONATE WITH THIN INTERBEDDED MANGANESE DIOXIDES; OPAL (FROM ALLEN AND DAY 1925).

OTHER SAMPLE INFORMATION.. BLACK CONE POOL.

GAS ANALYSIS

DATE/ANALYST..... 1965/07/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

AR... 0.06

CH₄... 0.09

C₂H₆...

CO₂... 93.

H₂... L 0.4

N₂... 5.11

O₂... 1.6

ISOTOPES (0020)

OTHER ANALYTICAL DATA... PH = 7. (EST. WITH PH PAPER).

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-256

REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00221

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... LOWER GEYSER BASIN - UNNAMED STEAM VENT

LOCATION

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1:62500

OTHER LOCALITY INFORMATION: NORTH OF SPRAY GEYSER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/30

SAMPLE NUMBER..... 31

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH₄... 0.18

C₂H₆...

CO₂... 83.

H₂... L 0.4

N₂... 14.08

O₂... U 3.2

ISOTOPES (0020)

QUALIFICATION FIELD... O₂ = O₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-243

REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00222

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - EXCELSIOR GEYSER

LOCATION

COUNTRY..... UNITED STATES

STATE..... WYOMING

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-31.23 N 110-50.08 W

GEO THERM FILE ID: 0020357

GEO THERM FILE ID: 0020343

COUNTY..... TETON
 M.P. REFERENCE..... MADISON JUNCTION 1162500
 OTHER LOCALITY INFORMATION: JUST SE OF VABM-MIDWAY (7251. FT).
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 91.
 OTHER SAMPLE INFORMATION.. HIGH RATE OF DISCHARGE.

WATER ANALYSIS

CHANGE IN BALANCE (% DIFF)... 0.0
 ANALYSIS IN PPM

AG....	CO3..... N	LI....	S....	0 0.67
AL.... 1.	CR.....	MG... N		
A.... 0 2.	F..... 20.	NA... 410.	SI02..	237.
HE....	FE(TOT).. 1.	NH... 562.	S04... 21.	
CA.... 3.	HCO3....			
CL.... 271.				
CO....	K..... 14.			

ISOTOPES (0200)

QUALIFICATION FIELD..... B CALCULATED FROM B202 (AMOUNT IS QUESTIONABLE); S CALCULATED FROM S202.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935; FOR 1976 DATA SEE RECORD NO. 0075089.

RECORD 00223

 GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAMED SPRING
 LOCATION..... TOWNSHIP-RANGE
 COORDINATES
 LAT/LONG... 44-32.33 N 110-50.53 W
 GEOTHERM FILE 101 0020356

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1162500
 OTHER LOCALITY INFORMATION: 300 EAST OF DIRT ROAD ABOUT 1/3 OF WAY TO IMPERIAL GEYSER.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1971/06/12 GUNTER, H.D.
 SAMPLE NUMBER..... 38
 TEMPERATURE (C)..... 93.
 DISCHARGE..... R 20. L/MIN

OTHER SAMPLE INFORMATION.. LARGE SUPERHEATED SPRING WITH PERIODIC GEYSER ACTION. COULD BE SAME SPRING AS NO. 38
 (GUNTER & MUSGRAVE, 1966)

GAS ANALYSIS

DATE/ANALYST..... 1971/06/00 GUNTER, H.D.
 ANALYSIS IN MULE %

AR... 1.2	N2... 64.
CH4.. 6.4	O2... 1.3
C2H6..	
CO2.. 27.	
H2... N	

ISOTOPES (0020)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEN-268
 REFERENCE..... GUNTER, 1973

RECORD 00224

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020352

NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAMED SPRING

LOCATION

COUNTRY=STATE

COORDINATES

COUNTRY..... UNITED STATES

LAT/LONG... 44-32.18 N 110-51.25 W

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: 1/4 MILE WEST OF ROAD, HALF WAY TO IMPERIAL GEYSER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1971/06/04

SAMPLE NUMBER..... 35

TEMPERATURE (C)..... 74.

OTHER SAMPLE INFORMATION.. WHITE SPRING WITH BLACK DEPOSIT.

GAS ANALYSIS

DATE/ANALYST..... 1971/06/00 GUNTER, B.O.

ANALYSIS IN MOLE %

AR... 0.51

CH₄... 1.5C₂H₆... 87.CO₂... 87.H₂... nN₂... 10.1O₂... 2.2

ISOTOPES (0020)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-267

REFERENCE..... GUNTER, 1973

RECORD 00225

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020355

NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAMED SPRING

LOCATION

COUNTRY=STATE

COORDINATES

COUNTRY..... UNITED STATES

LAT/LONG... 44-32.33 N 110-50.53 W

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: 1/2 MILE NORTH OF NO. 37, 30M EAST OF DIRT ROAD.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/07/00

SAMPLE NUMBER..... 38

TEMPERATURE (C)..... 94.5

OTHER SAMPLE INFORMATION.. SUPERHEATED POOL.

GAS ANALYSIS

DATE/ANALYST..... 1965/07/00 GUNTER, B.O. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH₄... 5.0C₂H₆... 44.CO₂... 44.H₂... L 0.4N₂... 47.95O₂... 0 2.9

ISOTOPES (0020)

OTHER ANALYTICAL DATA... PH = 8.4.

QUALIFICATION FIELD... O₂ = O₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEM-250
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00226

GEOHERM SAMPLE FILE

GEOHERM FILE 101 0020354

NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAMED SPRING
 LOCATION TOWNSHIP=RANGE COORDINATES
 COUNTRY..... UNITED STATES LAT/LONG... 44-32.15 N 110-51.10 W
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1162500
 OTHER LOCALITY INFORMATION: 100M EAST OF ROAD.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/07/00
 SAMPLE NUMBER..... 37
 TEMPERATURE (C)..... 82.0
 OTHER SAMPLE INFORMATION.. LARGE BLUE POOL.

GAS ANALYSIS

DATE/ANALYST..... 1965/07/00 GUNTER, B.O. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH₄... 2.2C₂H₆...CO₂... 74.H₂... L 0.4N₂... 19.61O₂... 0 4.7ISOTOPES 100201

OTHER ANALYTICAL DATA... PH = 8.5.

QUALIFICATION FIELD..... 02 = 02 + AH.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEM-249

REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00227

GEOHERM SAMPLE FILE

GEOHERM FILE 101 0020353

NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAMED SPRING
 LOCATION TOWNSHIP=RANGE COORDINATES
 COUNTRY..... UNITED STATES LAT/LONG... 44-32.18 N 110-51.27 W
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1162500
 OTHER LOCALITY INFORMATION: 300M WEST OF NO. 35.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/07/00
 SAMPLE NUMBER..... 36
 TEMPERATURE (C)..... 93.
 OTHER SAMPLE INFORMATION.. VERY SMALL POOL.

GAS ANALYSIS

DATE/ANALYST..... 1965/07/00 GUNTER, B.O. AND MUSGRAVE, B.O.

ANALYSIS IN MOLE %

CH₄... 0.96C₂H₆...CO₂... 77.H₂... L 0.4N₂... 20.68O₂... 0 1.2ISOTOPES 100201

OTHER ANALYTICAL DATA... PH = 8.5.
 QUALIFICATION FIELD... O2 = O2 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-24H
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00228

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020351

NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE COORDINATES
 COUNTRY..... UNITED STATES LAT/LONG... 44-32.18 N 110-51.25 W
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1162500
 OTHER LOCALITY INFORMATION: ONE QUARTER MILE WEST OF ROAD, HALF WAY TO IMPERIAL GEYSER.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/00/00
 SAMPLE NUMBER..... 35
 TEMPERATURE (C)..... 92.
 DEPOSITS OR ALTERATION... BLACK DEPOSITS.
 OTHER SAMPLE INFORMATION.. WHITE SPRING.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER, R.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

ISOTOPIES (00/01)

CH₄.. 2.4
 C₂H₆.. N₂... 50.12
 CO₂.. 44. O₂... 0 4.0
 H₂... L 0.4

OTHER ANALYTICAL DATA... PH = 7.9.
 QUALIFICATION FIELD... O2 = O2 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-247
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00229

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020342

NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - FLOOD GEYSER
 LOCATION TOWNSHIP-RANGE COORDINATES
 COUNTRY..... UNITED STATES LAT/LONG... 44-31. N 110-50. W
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 26
 TEMPERATURE (C)..... 94.
 OTHER SAMPLE INFORMATION.. TEMPERATURE 91.5-93.5 DEGREES C REPORTED BY ALLEN AND DAY, 1935.

WATER ANALYSIS

DATE/ANALYST..... 1930/00/00 ALLEN AND DAY

ANALYSIS IN PPM

ISOTOPIES (0/00)

AG.... CO3..... 128.
 HE.... FE(TOT). Nd... 504.. 12.
 CA.... HCO3..... 199.
 CL.... 22J.

GAS ANALYSIS

DATE/ANALYST.... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH4... 2.7
 C2H6... N2... 69.82
 CO2... 18. O2... u 9.1
 H2... L 0.4

ISOTOPES (0020)

OTHER ANALYTICAL DATA... PH = 8.8.

QUALIFICATION FIELD... 02 = 02 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-227
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00230

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - FLOOD GEYSER

GEOHERM FILE 101 0020341

LOCATION

TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-31. N 110-50. W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

TEMPERATURE (C)..... R 92.5

WATER ANALYSIS

ANALYSIS IN PPM

AG.... CO3..... 128.
 HE.... FE(TOT). Nd... 504.. 12.
 CA.... HCO3..... 199.
 CL.... 22J.

ISOTOPES (0200)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00231

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - INDIGO SPRING

GEOHERM FILE 101 0020344

LOCATION

TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-31.2 N 110-50.0 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: EAST OF EXCELSIOR GEYSER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

OTHER SAMPLE INFORMATION.. POOL 30 x 45 FT.

WATER ANALYSIS

CHARGE IMBALANCE (% DIFF)... 6.6

ANALYSIS IN PPM

AG....		CO3.....	38.	LI....		S....	0 0.67
AL....	3.	CR.....		MG....	N		
H.....		F.....		NA....	400.	SI02.	272.
HE....		FE(TOT)..	1.	NB....		S04..	16.
CA....	3.	HC03....	469.				
CL....	264.						
CO....		K.....	13.				

ISOTOPES (0/00)

QUALIFICATION FIELD..... S CALCULATED FROM S202.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00232

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - PRISMATIC LAKE

GEOHERM FILE ID: 0020345

LOCATION

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-31.20 N 110-50.13 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: SOUTHWEST OF EXCELSIOR GEYSER CRATER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

TEMPERATURE (C)..... 63.3

WATER ANALYSIS

ANALYSIS IN PPM

AG....		CO3.....	34.	NB...		S04..	16.
HE....		FE(TOT)..					
CA....		HC03....	545.				
CL....	287.						

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00233

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNAMED SPRING

GEOHERM FILE ID: 0020347

LOCATION

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-30.58 N 110-49.18 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: MAIN FEATURE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00

SAMPLE NUMBER..... 27

TEMPERATURE (C)..... 94.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER, H.O. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

ISOTOPES (0/00)

CH₄.. 2.3
 C₂H₆.. N₂... 28.1
 CO₂.. 61. O₂... 0 2.3
 H₂... L 0.4

OTHER ANALYTICAL DATA... PH = 8.3.

QUALIFICATION FIELD... 02 = 02 + AK.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-228
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00234

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020348

NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNAMED SPRING

LOCATION

TOWNSHIP=RANGE

COORDINATES

COUNTRY..... UNITED STATES

LAT/LONG... 44-30.50 N 110-48.42 W

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: SOUTH OF RABBIT CREEK, CENTER OF AREA.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1971/06/27

SAMPLE NUMBER..... 201

TEMPERATURE (C)..... 84.

DISCHARGE..... R 4H. L/MIN

OTHER SAMPLE INFORMATION.. VERY DEEP SPRING WITH LARGE SHALLOW RUNOFF POOL ABOUT IN CENTER OF AREA.

GAS ANALYSIS

DATE/ANALYST..... 1971/06/00 GUNTER, B.D.

ANALYSIS

ISOTOPIES (OO/O)

AR... 1.2

CH₄.. T

C₂H₆..

CO₂.. 0.15

H₂... N

N₂... 70.2

O₂... 29.

OTHER ANALYTICAL DATA... AR/N₂ = 1.7.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-229
 REFERENCE..... GUNTER, 1973

RECORD 00235

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020350

NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNAMED SPRING

LOCATION

TOWNSHIP=RANGE

COORDINATES

COUNTRY..... UNITED STATES

LAT/LONG... 44-30.49 N 110-48.42 W

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: 300 SOUTH OF NO. 201; SOUTH MEMBER OF TWO CONNECTED SPRINGS.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1971/06/00

SAMPLE NUMBER..... 203

TEMPERATURE (C)..... 90.
 DISCHARGE..... R 67. L/MIN
 OTHER SAMPLE INFORMATION.. LARGE CLEAR SPRING WITH CAVED IN EDGE.

GAS ANALYSIS

DATE/ANALYST..... 1971/06/00 GUNTER, B.O.

ANALYSIS IN MOLE %

AR...	1.5		
CH ₄ ..	T		
C ₂ H ₆ ..		N ₂ ...	85.8
CO ₂ ..	1.	O ₂ ...	12.
H ₂ ...	N		

ISOTOPES (00/0)OTHER ANALYTICAL DATA... AR/N₂ = 1.76.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-2J1
 REFERENCE..... GUNTER, 1973

RECORD 00236

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020349

NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNAMED SPRING
 LOCATION

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-30.50 N 110-48.42 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1:62500

OTHER LOCALITY INFORMATION: ONE METER SOUTHEAST OF NO.201.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTION..... 1971/06/00

SAMPLE NUMBER..... 202

TEMPERATURE (C)..... 82.

DISCHARGE..... R 0.1 L/MIN

OTHER SAMPLE INFORMATION.. SMALL TURBID POOL WITH NO RUNOFF.

GAS ANALYSIS

DATE/ANALYST..... 1971/06/00 GUNTER, B.O.

ANALYSIS IN MOLE %

AR...	0.48		
CH ₄ ..	0.42		
C ₂ H ₆ ..		N ₂ ...	22.4
CO ₂ ..	74.	O ₂ ...	3.1
H ₂ ...	N		

ISOTOPES (00/0)OTHER ANALYTICAL DATA... AR/N₂ = 2.15.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-2J0
 REFERENCE..... GUNTER, 1973

RECORD 00237

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020346

NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - UNNAMED CONE
 LOCATION

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-30.57 N 110-49.50 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1162500
 OTHER LOCALITY INFORMATION: RIGHT BANK OF FIREHOLE RIVER, 150 YDS. BELOW UPPER BRIDGE.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 92.6

WATER ANALYSIS

ANALYSIS IN PPM

AG....	CO3.....	15.			
HE....	FE(TOT).		NB...	504..	4.
CA....	HCO3.....	340.			
CL....	253.				

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00238

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020339

NAME OF SAMPLE SOURCE... MIDWAY GEYSER BASIN - UNNAMED SPRING
 LOCATION..... TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-31. N 110-50. W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1162500
 OTHER LOCALITY INFORMATION: EAST BANK OF FIREHOLE RIVER.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 SAMPLE NUMBER..... 19

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH4..	0.2	H2S..	N
C2H6.		N2...	4 8.95
CO2..	91.	O2...	0.3
H2...	0		

ISOTOPES (00/0)

QUALIFICATION FIELD..... N2 = N2 + AM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-225
 REFERENCE..... ALLEN AND DAY, 1935.

RECORD 00239

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0075075

NAME OF SAMPLE SOURCE... NORTH BUFFALO FORK SPRINGS - GROUP 1
 LOCATION..... TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 43-54.40 N 110-11.70 W
 UTM ZONE... +12
 NORTHING... 4861605.
 564643.

COUNTRY..... UNITED STATES 45N 111W 32 NE OF SE
 STATE..... WYOMING
 COUNTY..... TETON
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... JOY PEAK 1124000

OTHER LOCALITY INFORMATION: GROUP ON EAST SIDE OF BUFFALO FORK AT JUNCTION WITH SODA FORK.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1950/00/00

TEMPERATURE (C)..... 75.5
 DISCHARGE..... 53. L/MIN
 OTHER SAMPLE INFORMATION... TWO GROUPS OF SPRINGS. THE GROUP FOR THIS ANALYSIS IS DESCRIBED AS VIOLENTLY BUBBLING.
 SODASIS TASTE AND A SULFUR SMELL.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00240

GEOTERM FILE 101 0075076

GEOTERM SAMPLE FILE

NAME OF SAMPLE SOURCE... NORTH BUFFALO FORK SPRINGS - GROUP 2
 LOCATION OWNERSHIP=RANGE

COORDINATES

LAT/LONG... 43-54.40 N 110-11.70 W
 UTM ZONE... +12
 NORTING... 4861605.
 564643.

COUNTRY..... UNITED STATES 45N 11W 32 NE OF SE
 STATE..... WYOMING
 COUNTY..... TETON
 GEOLOGIC PROVINCE.. 41
 MAP REFERENCE..... JOY PEAK 1124000
 OTHER LOCALITY INFORMATION: THIS GROUP ACROSS BUFFALO FORK RIVER FROM OTHER GROUP.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 45.0
 DISCHARGE..... 757. L/MIN
 OTHER SAMPLE INFORMATION... TWO GROUPS OF SPRINGS. THIS GROUP IN AN AREA OF MANY GAS SEEPS.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... HEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00241

GEOTERM FILE 101 0020287

GEOTERM SAMPLE FILE

NAME OF SAMPLE SOURCE... ORANGE GROUP - UNNAMED SPRING
 LOCATION OWNERSHIP=RANGE

COORDINATES

LAT/LONG... 44-27.77 N 110-50.75 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 OTHER LOCALITY INFORMATION: 300M NW OF CASTLE, 70M FROM HIGHWAY, 15M SW OF LARGE BROWN POOL, BESIDE A SPURTING SPRING; UPPER GEYSER BASIN.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 108
 TEMPERATURE (C)..... 71.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH₄.. 1.5 N₂... 59.97
 C₂H₆.. O₂... 4 17.
 CO₂.. 22.
 H₂... H

OTHER ANALYTICAL DATA... PH (EST. WITH PH PAPER) = 8.
 QUALIFICATION FIELD... O₂ = O₂ + AR

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

ISOTOPES (00/01)

COMPILED CROSS INDEX... NEH-210
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00242

GEOTHERM FILE ID: 0020307

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... PIPELINE CREEK SPRING
 LOCATION TOWNSHIP=RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 OTHER LOCALITY INFORMATION: ABOVE UPPER GEYSER BASIN.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 SAMPLE NUMBER..... 9

COORDINATES

LAT/LONG... 44-27.68 N 110-50.00 W

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH ₄ ..	1.1	H ₂ S..	N
C ₂ H ₆ ..		N ₂ ..	0 8.5
CO ₂ ..	90.	O ₂ ..	0.1
H ₂ ..	0.35		

ISOTOPIES (00/0)

QUALIFICATION FIELD..... N₂ = N₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-171
 REFERENCE..... ALLEN AND DAY, 1935.

RECORD 00243

GEOTHERM FILE ID: 0020486

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... POTTS HOT SPRING BASIN - UNNAMED GEYSER
 LOCATION TOWNSHIP=RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... WEST THUMB 1162500
 OTHER LOCALITY INFORMATION: NNW OF WEST THUMB, NEXT TO HIGHWAY.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/00/00 GUNTER AND MUSGRAVE
 SAMPLE NUMBER..... 96
 TEMPERATURE (C)..... 95.

COORDINATES

LAT/LONG... 44-26.4 N 110-34.5 W

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE
 ANALYSIS IN MULE %

CH ₄ ..	1	N ₂ ..	40.4
C ₂ H ₆ ..		O ₂ ..	0 9.1
CO ₂ ..	51.		
H ₂ ..	N		

ISOTOPIES (00/0)

OTHER ANALYTICAL DATA... PH = 8.7.

QUALIFICATION FIELD..... O₂ = O₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-335

REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00244

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... PUTTS HOT SPRING BASIN - UNNAMED SPRING
LOCATION

GEOHERM FILE ID: 0020487

COUNTRY..... UNITED STATES

COORDINATES

LAT/LONG... 44-26.4 N 110-34.5 W

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... WEST THUMB 1162500

OTHER LOCALITY INFORMATION: 15M NORTH OF NO. 96.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00 GUNTER AND MUSGRAVE

SAMPLE NUMBER..... 97

TEMPERATURE (C)..... 94.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

CH4.. 1.9

C2H6..

CO2.. 12.

H2... N

N2... 84.31

O2... 0 2.1

ISOTOPES (OO/O)

OTHER ANALYTICAL DATA... PH = 8.4.

QUALIFICATION FIELD... O2 = O2 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEM-336

REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00245

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SHOSHONE GEYSER BASIN - BLUE GLASS SPRING

GEOHERM FILE ID: 0020474

LOCATION

COUNTRY..... UNITED STATES

COORDINATES

LAT/LONG... 44-21.1 N 110-48.0 W

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1960/00/00

SAMPLE NUMBER..... XI

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH4.. N

C2H6..

CO2.. 52.

H2... N

H2S.. N

N2... 44.55

O2... 3.7

ISOTOPES (OO/O)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEM-325

REFERENCE..... ALLEN AND DAY, 1935

RECORD 00246

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... SHUSHONE GEYSER BASIN - MINUTE MAN GEYSER

GEOTHERM FILE ID: 0020478

LOCATION
 TOWNSHIP=RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 OTHER LOCALITY INFORMATION: WEST END OF SHUSHONE LAKE.

COORDINATES
 LAT/LONG... 44-21.18 N 110-47.54 W

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00

WATER ANALYSIS

ANALYSIS IN PPM

AG....	CO3.....	69.				
AL.... N	CR.....		MG... N			
H.....	F.....		NA... 308.	SI02.	258.	
HE....	FE(TOT). I		NB...	S04..	57.	
CA.... T	HC03....	331.				
CL.... 151.						
CO....	K.....	17.				

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00247

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... SHUSHONE GEYSER BASIN - TAURUS GEYSER

GEOTHERM FILE ID: 0020475

LOCATION
 TOWNSHIP=RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 OTHER LOCALITY INFORMATION: 630 FT NORTHWEST OF UNION GEYSER.

COORDINATES
 LAT/LONG... 44-21.12 N 110-48.03 W

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1888/00/00

WATER ANALYSIS

DATE/ANALYST..... 1888/00/00 GOOCH AND WHITFIELD

ANALYSIS IN PPM

AG....	CO3.....		LI... 0.9	S.... N		
AL.... 4.	CR.....		MG... 0.9			
H..... 2.4	F.....		NA... 320.	SI02.	293.	
HE....	FE(TOT). I		NB...	S04..	46.	
HI....	GA.....		NH4.. 1.			
HR.... N						
CA.... T	HC03....	445.				
CL.... 194.						
CU....	K.....	24.				

ISOTOPES (0/00)

GAS ANALYSIS

DATE/ANALYST..... 1888/00/00 GOOCH AND WHITFIELD

ANALYSIS IN VOLUME %

CH4.. 0.3	H2S.. 0.96
C2H6.	H2... 18.36

ISOTOPES (00/0)

CO₂... 78.
 H₂... 2.2
 U₂... 0.23

OTHER ANALYTICAL DATA... H₂O ANAL: AS203 = 0.7 PPM.
 QUALIFICATION FIELD... HCO₃ IS A CALCULATED VALUE. B CALCULATED FROM H₂O₃.
 REFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-326
 REFERENCE... ALLEN AND DAY, 1935

RECORD 00248

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020477

NAME OF SAMPLE SOURCE... SHOSHONE GEYSER BASIN - UNION GEYSER
 LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-20.48 N 110-47.55 W

COUNTRY... UNITED STATES

STATE... WYOMING

COUNTY... TETON

MAP REFERENCE... OLD FAITHFUL 1162500

OTHER LOCALITY INFORMATION: WEST SIDE OF SHOSHONE LAKE; APPROX. 2700 FT WEST OF LAKE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1930/00/00

WATER ANALYSIS

CHARGE IMBALANCE (% DIFF)... 12.1

ANALYSIS IN PPM

AG....	CO ₃	77.	LI...	S....	N	ISOTOPES (0/00)
AL.... N						
H....	F....		NA....	364.	SI02.	332.
HE....	FE(TOT). T		NB....	S04..		45.
CA.... 20.	HCO ₃	310.				
CL.... 235.						
CU....	K....	13.				

OTHER ANALYTICAL DATA... S₂O₃ = 1.5 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE... ALLEN AND DAY, 1935

RECORD 00249

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020476

NAME OF SAMPLE SOURCE... SHOSHONE GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-21. N 110-48. W

COUNTRY... UNITED STATES

STATE... WYOMING

COUNTY... TETON

MAP REFERENCE... OLD FAITHFUL 1162500

OTHER LOCALITY INFORMATION: EAST SIDE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1930/00/00

SAMPLE NUMBER... 26

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH ₄ ..	0.6	H ₂ S..	N
C ₂ H ₆ ..		N ₂ ..	9.7
CO ₂ ..	89.	O ₂ ..	0.2

ISOTOPES (00/01)

H2... 0.65
 QUALIFICATION FIELD... N2 = N2 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-327
 REFERENCE... ALLEN AND DAY, 1935

RECORD 00250

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020402

NAME OF SAMPLE SOURCE... TERRACE SPRING

LOCATION

TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-39.00 N 110-50.45 W

COUNTRY... UNITED STATES

STATE... WYOMING

COUNTY... TETON

MAP REFERENCE... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: NEXT TO ROAD, NORTH SIDE, APPROX. 3345 FT. NORTHEAST OF MADISON JUNCTION.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1965/00/00

SAMPLE NUMBER... 119

TEMPERATURE (C)... 60.

GAS ANALYSIS

DATE/ANALYST... 1965/00/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

ISOTOPIES (00/01)

CH4... L 0.4

C2H6...

N2... 0.29

CO2... 99.

O2... 0 0.29

H2... L 0.4

OTHER ANALYTICAL DATA... PH = 6.6.

QUALIFICATION FIELD... O2 = O2 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-277

REFERENCE... GUNTER AND MUSGRAVE, 1966

RECORD 00251

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020401

NAME OF SAMPLE SOURCE... TERRACE SPRING

LOCATION

TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-39.00 N 110-50.45 W

COUNTRY... UNITED STATES

STATE... WYOMING

COUNTY... TETON

MAP REFERENCE... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: NEXT TO ROAD, NORTH SIDE, 3345 FT. NORTHEAST OF MADISON JUNCTION.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1930/00/00

SAMPLE NUMBER... 8

TEMPERATURE (C)... 61.8

WATER ANALYSIS

DATE/ANALYST... 1930/00/00

CHANGE IMBALANCE (% DIFF)... 1.4

ANALYSIS IN PPM

ISOTOPIES (02/01)

AG....

CO3... N

LI...

S... N

AL.... N CR..... MG... 2.
 R..... F..... NA... 296.
 HE..... FE(TQT). N S102. 140.
 CA.... 21. HCO3.... 774. NB... 504.. 12.
 CL.... 60. K..... 36.

GAS ANALYSIS

DATE/ANALYST..... 1930/06/00
 ANALYSIS IN VOLUME %

CH4... N H2S... N
 C2H6... N2... U 0.3
 CO2... 160. O2... 0.2
 H2... N

ISOTOPES (00/0)

QUALIFICATION FIELD..... N2 = N2 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-276
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00252

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... TETON VALLEY WARM SPRINGS

GEOTHERM FILE ID: 0075077

LOCATION

COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... WYOMING 42N 115W 11 NE OF NE
 COUNTY..... TETON
 GEOLOGIC PROVINCE... 41

COORDINATES

LAT/LONG... 43-37.43 N 110-36.37 W
 UTM ZONE... +12
 NORTHING... 4829954,
 531775.

MAP REFERENCE..... BLUE MINER LAKE 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/09/23

TEMPERATURE (C)..... 18.0
 DISCHARGE..... 32554. L/MIN

OTHER SAMPLE INFORMATION... CONSISTS OF MANY SPRINGS AND SEEPS IN AN AREA 150 FT BY 1200 FT.

WATER ANALYSIS

PH..... 8.2
 SPECIFIC CONDUCTANCE... 403.
 TOTAL DISSOLVED SOLIDS... 248.
 CHARGE IMBALANCE (% DIFF)... 5.3

ANALYSIS IN PPM

AG.... CO3.... N LI... S.... L 0.001
 AL.... CH..... MG... 16.
 H.... 0.07 F..... 0.6 NA... 7.0 S102. 11.
 HE.... FE(TQT). NB... 504.. 62.
 CA.... 49. HCO3.... 180. NU3... 0.5
 CL.... 2.0 K..... 1.6

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... MEASLER, H. P.
 COMPILER AFFILIATION... UNIVERSITY OF WYOMING
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00253

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020340

NAME OF SAMPLE SOURCE... UNNAMED SPRING

LOCATION
COUNTRY..... UNITED STATES TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-31. N 110-50. W

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: 30M NORTH OF FLOOD GEYSER, IN MIDWAY GEYSER BASIN.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00

SAMPLE NUMBER..... 25

TEMPERATURE (C)..... 94.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH₄.. 0.41H₂S.. NC₂H₆..N₂... 14.5CO₂.. 82.O₂... 0 3.5H₂... L 0.4

OTHER ANALYTICAL DATA... PH = 8.7.

QUALIFICATION FIELD..... 02 = 02 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-226

REFERENCE..... GUNTER AND MUSGRAVE, 1966

ISOTOPES (OOZU)

RECORD 00254

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020254

NAME OF SAMPLE SOURCE... UPPER GEYSERS BASIN - UNNAMED SPRING

LOCATION
COUNTRY..... UNITED STATES TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-27.43 N 110-50.00 W

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1162500

OTHER LOCALITY INFORMATION: 20M EAST OF SERPENTS TONGUE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/13

SAMPLE NUMBER..... 11

TEMPERATURE (C)..... 68.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/14 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH₄.. 0.96N₂... 5.99C₂H₆..O₂... 0 1.2CO₂.. 92.H₂... N

OTHER ANALYTICAL DATA... PH=3.2

QUALIFICATION FIELD..... 02=02 + AR

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-189

REFERENCE..... GUNTER AND MUSGRAVE, 1966

ISOTOPES (OOZU)

RECORD 00255

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020304

NAME OF SAMPLE SOURCE... UPPER GEYSERS BASIN - UNNAMED SPRING
LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-27.53 N 110-49.45 W

COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1162500

OTHER LOCALITY INFORMATION: SUM DOWNSTREAM FROM NO. 21, EAST BANK FIREHOLE RIVER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00

SAMPLE NUMBER..... 22

OTHER SAMPLE INFORMATION.. POOL IS SLIGHTLY TURBID.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

ISOTOPES (00/01)CH₄.. 0.67C₂H₆..N₂... 3.88CO₂.. 95.O₂... 0 0.18H₂... N

OTHER ANALYTICAL DATA... PH = 8.

QUALIFICATION FIELD..... 02 = 02 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-197

REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00256

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020257

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - ARTEMESIA GEYSER
LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-27.43 N 110-50.00 W

COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00

SAMPLE NUMBER..... 43

TEMPERATURE (C)..... 87.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER, B.O. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

ISOTOPES (00/01)CH₄.. 8.6C₂H₆..N₂... 80.11CO₂.. 4.7O₂... 0 6.6H₂... N

OTHER ANALYTICAL DATA... PH(EST. WITH PH PAPER) = 8.

QUALIFICATION FIELD..... 02=02 + AR

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-203

REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00257

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020256

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - ARTEMISIA GEYSER
LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-27.43 N 110-50.00 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

SAMPLE NUMBER..... 16

OTHER SAMPLE INFORMATION.. TEMPERATURE VARIES FROM 83.7 TO 91.5.

WATER ANALYSIS

ANALYSIS IN PPM

AG.... CO3..... 75.

H..... F.....

HE.... FE(TOT).

CA.... T HCO3.... 411.

CL.... 2H9.

CO.... K..... 16.

ISOTOPES (0/00)

NA... 422. S102. 268.

NB... S04... 18.

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH4.. 11.

C2H6.

CO2.. 0.9

H2... N

H2S.. N

N2... 85.1

O2... 3.4

ISOTOPES (00/01)

OTHER ANALYTICAL DATA... B203=10. PPM

QUALIFICATION FIELD... N2=N2 + AR

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... MEH-178

REFERENCE..... ALLEN AND DAY, 1935.

RECORD 00258

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020255

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - ARTEMISIA GEYSER
LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-27.43 N 110-50.00 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1900/00/00

SAMPLE NUMBER..... 1

OTHER SAMPLE INFORMATION.. TEMPERATURE 82.5 DEGRESS C. 1927/08/04.

GAS ANALYSIS

DATE/ANALYST.....

PHILLIPS, F.C.

ANALYSIS IN VOLUME %

CH4.. N

C2H6.

CO2.. 1.3

H2S.. N

N2... 94.08

O2... 3.5

ISOTOPES (00/01)

42... 0.1
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-168
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00259

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020325

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - BEEHIVE GEYSER

LOCATION TOWNSHIP-RANGE COORDINATES

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

TEMPERATURE (C)..... 92.5

WATER ANALYSIS

ANALYSIS IN PPM

AG.... CO3..... 29. LI... S.... 0 1. ISOTOPES (0/00)

AL.... N

H.... 0 2.4

HE....

CA.... T

CL.... 378.

CO....

K..... 18.

B CALCULATED FROM B2021 S CALCULATED FROM S202.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00260

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020320

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - BENCH SPRING

LOCATION TOWNSHIP-RANGE COORDINATES

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

TEMPERATURE (C)..... 83.7

WATER ANALYSIS

ANALYSIS IN PPM

AG.... CO3..... N MG... T ISOTOPES (0/00)

AL.... N CR.....

H.... 0 0.81

HE....

HI....

CA.... 1.

CL.... 2.

CO....

K..... 17.

B CALCULATED FROM B202.

QUALIFICATION FIELD.....

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00261

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020293

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - BLACK SAND POOL
 LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-27.73 N 110-51.35 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 92.7

WATER ANALYSIS

ANALYSIS IN PPM

AG....	CO3.....	150.			
HE....	FE(TOT).....		NB...	S04..	8.
CA....	HCO3.....	300.			
CL....					

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00262

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020267

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - BOTTOMLESS PIT
 LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-27.43 N 110-50.00 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500

OTHER LOCALITY INFORMATION: CHAIN LAKE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1900/00/00

GAS ANALYSIS

DATE/ANALYST..... PHILLIPS, F.C.

ANALYSIS IN VOLUME %

CH4..	N	H2S..	N
C2H6.		N2...	69.24
CO2..	19.	O2...	11.
H2...	0.71		

ISOTOPES (00/01)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-170
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00263

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020338

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - CALTHOS SPRING
 LOCATION TOWNSHIP=RANGE

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 94.5

WATER ANALYSIS

ANALYSIS IN PPM

AG....	CO3.....	42.			
HE....	FE(TOT).....		NB...	S04..	4.
CA....	HCO3.....	454.			
CL....		280.			

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00264

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020286

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - CASTLE GEYSER
 LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-27.5 N 110-50.6 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1162500
 SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

WATER ANALYSIS

CHARGE IMBALANCE (% DIFF)... 5.2

ANALYSIS IN PPM

AG....	CO3.....	42.	LI...	S....	T
AL.... N	CR.....		MG... N		
H.... U 2.4	F.....		NA... 434.	SI02.	340.
HE....	FE(TOT)..... N		NB...	S04..	24.
HI....	GA.....		NH4... N		
CA.... 1.	HCO3.....	329.			
CL.... 399.					
CO....	K.....	24.			

ISOTOPES (0/00)

QUALIFICATION FIELD... B CALCULATED FROM H2O2.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00265

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020268

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - CHINAMAN SPRING
 LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-27.43 N 110-50.00 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 93.5

WATER ANALYSIS

ANALYSIS IN PPM

AG..... CO3..... N
 HE..... FE(TOT). NB... 504... 49.
 CA..... HCO3..... 174.

ISOTOPES (00/00)

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH4.. 0.75 H2S.. N
 C2H6.. N2... Q 7.2
 CO2.. 92. O2... N
 H2... 0.45

ISOTOPES (00/01)

QUALIFICATION FIELD..... N2 = N2 + AM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEM-172
 REFERENCE..... ALLEN AND DAY, 1935.

RECORD 00266

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020269

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - CHINAMAN SPRING
 LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-27.43 N 110-50.00 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 116250

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 121
 TEMPERATURE (C)..... 93.5

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER, B.D. AND MUGRAVE, B.C.

ANALYSIS

CH4.. 0.39
 C2H6.. N2... 6.46
 CO2.. 93. O2... Q 0.52
 H2... N

ISOTOPES (00/01)

OTHER ANALYTICAL DATA... RH = 7.8.

QUALIFICATION FIELD..... O2 = O2 + AM

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEM-212
 REFERENCE..... GUNTER AND MUGRAVE, 1966

RECORD 00267

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020337

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - CLIFF GEYSER
 LOCATION TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES

STATE..... WYOMING
 COUNTY..... TETON
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1933/00/00
 TEMPERATURE (C)..... 89.6

WATER ANALYSIS

ANALYSIS IN PPM

AG....	CO3.....	10.			
BE....	FE(TQT)...		NB...	504..	25.
CA....	HCO3.....	590.			
CL....		300.			

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND JAY, 1935

RECORD 00268

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020277

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - DAISY GEYSER
 LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-28.50 N 110-50.00 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 107
 TEMPERATURE (C)..... 89.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER, B.O. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %

ISOTOPES (00/01)

CH4..	0.77		
C2H6..		N2...	7.06
CO2..	91.	O2...	0 1.5
H2...	H		

OTHER ANALYTICAL DATA... PH (EST. WITH PH PAPER) = 8.

QUALIFICATION FIELD... 02 = 02 + AR

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-209
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00269

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020276

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - DAISY SPRING
 LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-28.50 N 110-50.00 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00
 SAMPLE NUMBER..... 15

TEMPERATURE (C)..... 88.6
 WATER ANALYSIS
 ANALYSIS IN PPM
 AG..... CO3..... 15.
 HE..... FE(TOT)..... NB... 504.. 8.
 CA..... HCO3..... 619.
 CL..... 311.
 GAS ANALYSIS
 ANALYSIS IN VOLUME %
 CH4.. 1.0 H2S.. N
 C2H6.. C2H2.. 17.9
 CO2.. 78.6 O2... 1.9
 H2... N

ISOTOPES (0/00)ISOTOPES (00/01)

QUALIFICATION FIELD..... N2 = N2 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-177
 REFERENCE..... ALLEN AND DAY, 1935.

RECORD 00270

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - EAR SPRING
 LOCATION TOWNSHIP-RANGE

GEOTHERM FILE ID: 0020251

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

COORDINATES
 LAT/LONG... 44-27.4 N 110-50.0 W

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 93.

WATER ANALYSIS
 ANALYSIS IN PPM
 AG..... CO3..... N
 HE..... FE(TOT)..... NB... 504.. 74.
 CA..... HCO3..... 104.
 CL..... 379.

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00271

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - ECONOMIC GEYSER
 LOCATION TOWNSHIP-RANGE

GEOTHERM FILE ID: 0020290

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500

COORDINATES
 LAT/LONG... 44-28.5 N 110-50.0 W

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 83.7

WATER ANALYSIS
 ANALYSIS IN PPM

ISOTOPES (0/00)

AG.... CO3..... N
HE.... FE(TOT).....
CA.... HCO3..... 362. Nd... 504.. 16.
CL.... 355.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... ALLEN AND DAY, 1935

GEO THERM SAMPLE FILE

RECORD 00272

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - ECONOMIC GEYSER
LOCATION TOWNSHIP=RANGE

GEO THERM FILE ID: 0020291

COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON

COORDINATES
LAT/LONG... 44-28.5 N 110-50.0 W

MAP REFERENCE..... OLD FAITHFUL 1162500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1965/06/00
SAMPLE NUMBER..... 15
TEMPERATURE (C)..... 63.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER, H.D. AND MUSGRAVE, H.C.
ANALYSIS IN MULE %
CH4.. 1.7
C2H6.. N2... 62.82
CO2.. 12. O2... 0 23.
H2... N

ISOTOPES (00/01)

OTHER ANALYTICAL DATA... PH = 8.1.
QUALIFICATION FIELD... 02 = 02 + AR

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPILED CROSS INDEX... NEM-191
REFERENCE..... GUNTER AND MUSGRAVE, 1966

GEO THERM SAMPLE FILE

RECORD 00273

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - EMERALD POOL
LOCATION TOWNSHIP=RANGE

GEO THERM FILE ID: 0020297

COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON

COORDINATES
LAT/LONG... 44-27.28 N 110-51.13 W

MAP REFERENCE..... OLD FAITHFUL 1162500
OTHER LOCALITY INFORMATION: 261 FT. WEST OF JUNCTION OF IRON SPRING AND WEST FORK CREEKS.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1970/00/00
TEMPERATURE (C)..... 70.

WATER ANALYSIS

ANALYSIS IN PPM
AG.... CO3..... 148. Li... S.... N
AL.... N
H.... 0 2.6 F..... NA... 454. S102. 324.
HF.... FE(TOT). N Nd... S04.. 21.

ISOTOPES (0/001)

CA.... T HCO3.... 362.
 CL.... 307.
 CO.... K..... 20.
 QUALIFICATION FIELD..... B CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00274

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - GIANT GEYSER
 LOCATION TOWNSHIP-RANGE

GEOTHERM FILE ID: 0020324

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

COORDINATES

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1970/00/00
 TEMPERATURE (C)..... 94.3

WATER ANALYSIS

ANALYSIS IN PPM

AG....	CO3.... 52.	LI...	S.... 0 0.33	ISOTOPES (0/00)
AL.... N	F.....	NA... 432.	SI02.. 254.	
H.... 4 2.6	FE (TOT). N	NH... 487.	S04.. 18.	
ME....	HCO3....			
CA.... T				
CL.... 297.				
CO....	K..... 20.			

QUALIFICATION FIELD..... B CALCULATED FROM B2021 S CALCULATED FROM S202.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00275

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - GIANTESS GEYSER
 LOCATION TOWNSHIP-RANGE

GEOTHERM FILE ID: 0020249

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

COORDINATES

LAT/LONG... 44-27.7 N 110-49.5 W

MAP REFERENCE..... OLD FAITHFUL 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 94.]

WATER ANALYSIS

ANALYSIS IN PPM

AG....	CO3.... 51.	LI...	S.... 1.	ISOTOPES (0/00)
AL.... N	CR.....	MG... N		
H.... 4 3.9	F..... 20.	NA... 362.	SI02.. 372.	
ME....	FE (TOT). N	NH... 113.	S04.. 23.	
HI....	GA.....	NH4... N		
CA.... N	HCO3....			
CL.... 429.				

CO..... K..... 20.
 QUALIFICATION FIELD..... B CALCULATED FROM H2O2.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00276

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020332

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - GRAND GEYSER

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1970/00/00

TEMPERATURE (C)..... 79.

WATER ANALYSIS

ANALYSIS IN PPM

AG.....

CO3..... 142.

HF.....

FE(TOT).

NH...

SO4... 8.

CA.....

HCO3.... N

CL..... 376.

ISOTOPES (O/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... ALLEN AND DAY, 1935

RECORD 00277

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020264

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - HILLSIDE NO. 1

LOCATION

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-28.20 N 110-51.52 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1:62500

OTHER LOCALITY INFORMATION: WEST SIDE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1970/00/00

WATER ANALYSIS

CHARGE IMBALANCE (% DIFF)... 3.6

ANALYSIS IN PPM

AG.....

CO3.....

LI...

S.... N

AL.... N

CR.....

MG... N

H.... 0 1.0

F.....

NA... 124.

SI02. 170.

HE.....

FE(TOT). N

NH...

SO4... 12.

HI.....

GA.....

NH4... N

CA.... 9.

HCO3.... 249.

CL.... 55.

CO.....

K..... 10.

ISOTOPES (O/00)

QUALIFICATION FIELD..... B CALCULATED FROM H2O2.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

 GEOTHERM SAMPLE FILE

RECORD 00278

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - IRON SPRING
 LOCATION TOWNSHIP-RANGE

GEOTHERM FILE ID: 0020280

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE... OLD FAITHFUL 1162500

COORDINATES
 LAT/LONG... 44-28.50 N 110-50.00 W

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 SAMPLE NUMBER..... 17
 TEMPERATURE (C)..... 90.8

WATER ANALYSIS
 ANALYSIS IN PPM

AG.... CO3.... N
 AL.... N CR.....
 H.... F..... 1.2
 HE.... FE(TOT). T
 HI.... GA.....
 CA.... 2. HCO3.... N
 CL.... 1.
 CO.... K..... 28.

ISOTOPES (O/00)

MG... T
 NA... 77. S102. 365.
 NH... S04... 231.
 NH4... 4.

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH4... 0.85
 C2H6...
 CO2... 83.
 H2... N

ISOTOPES (00/01)

H2S... N
 H2... W 14.4
 O2... 1.6

OTHER ANALYTICAL DATA... H2O18/H2O16 = 7. PPM; H = 0.18 PPM.

QUALIFICATION FIELD... N2 = N2 + AR

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-179
 REFERENCE..... ALLEN AND DAY, 1935.

RECORD 00279

 GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - JEWEL GEYSER
 LOCATION TOWNSHIP-RANGE

GEOTHERM FILE ID: 0020284

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE... OLD FAITHFUL 1162500

COORDINATES
 LAT/LONG... 44-28.5 N 110-50.0 W

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 93.7

WATER ANALYSIS
 ANALYSIS IN PPM

AG.... CO3.... 20.
 HE.... FE(TOT).
 CA.... HCO3.... 581.

ISOTOPES (O/00)

NH... S04... 10.

CL... 314.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00280

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - JEWEL GEYSER
 LOCATION TOWNSHIP-RANGE

GEOTHERM FILE ID: 0020285

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 40
 TEMPERATURE (C)..... 48.

COORDINATES

LAT/LONG... 44-28.5 N 110-50.0 W

GAS ANALYSIS

DATE/ANALYST... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH₄... 4.0C₂H₆...CO₂... 48.H₂... NN₂... 40.39O₂... 0 8.1

ISOTOPES (0020)

OTHER ANALYTICAL DATA... PH (EST. WITH PH PAPER) = 8.
 QUALIFICATION FIELD... 02 = 02 + AH

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEM-200
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00281

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - LIONESS GEYSER
 LOCATION TOWNSHIP-RANGE

GEOTHERM FILE ID: 0020288

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 94.

COORDINATES

WATER ANALYSIS

ANALYSIS IN PPM

AG....

HE....

CA....

CL... 419.

CO₃.... 97.

FE(10F)...

HCO₃.... N

NB...

S04... 4.

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00282

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - MORNING GLORY POOL
 LOCATION TOWNSHIP=RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE... OLD FAITHFUL 1162500
 COORDINATES
 LAT/LONG... 44-28.05 N 110-50.32 W
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 77.
 WATER ANALYSIS
 ANALYSIS IN PPM
 AG.... CO3..... 13. LI... S.... N ISOTOPES (0/00)
 AL.... N
 H.... U 4.0 F..... NA... 421. S102. 260.
 HE.... FE (TOT). N NB... S04.. 22.
 CA.... T HCO3..... 540.
 CL.... 291.
 CO.... K..... 20.
 QUALIFICATION FIELD... B CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00283

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - OBLONG GEYSER
 LOCATION TOWNSHIP=RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 COORDINATES
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 93.6
 WATER ANALYSIS
 ANALYSIS IN PPM
 AG.... CO3..... 44. ISOTOPES (0/00)
 HE.... FE (TOT). NB... S04.. 16.
 CA.... HCO3..... 377.
 CL.... 312.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00284

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - OLD FAITHFUL GEYSER
 LOCATION TOWNSHIP=RANGE
 COUNTRY..... UNITED STATES
 COORDINATES
 LAT/LONG... 44-27.63 N 110-49.38 W

STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 OTHER LOCALITY INFORMATION: NORTHEAST OF OLD FAITHFUL INN.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

WATER ANALYSIS

CHARGE IMBALANCE (% DIFF)... 0.1

ANALYSIS IN PPM

AG....	CO3.....	109.	LI...	S....	T	ISOTOPES (0/00)
AL....	H.....	3.6	F.....	22.	NA... 372.	SI02. 357.
HE....	FE(TOT). I		NB...		S04..	21.
CA....	4.					
CL....	439.					
CO....	K.....	31.				

QUALIFICATION FIELD..... B CALCULATED FROM B202.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... ALLEN AND DAY, 1935

RECORD 00285

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - PINE SPRINGS GROUP - UNNAMED SPRING

GEOHERM FILE ID: 0020319

LOCATION

COUNTRY..... UNITED STATES

TOWNSHIP-RANGE

COORDINATES

STATE..... WYOMING

LAT/LONG... 44-27.98 N 110-50.42 W

COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1162500

OTHER LOCALITY INFORMATION: SOUTHERN FEATURE BY NO. 204.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1971/06/29

SAMPLE NUMBER..... 205

TEMPERATURE (C)..... 83.

DISCHARGE..... R 0.2 L/MIN

OTHER SAMPLE INFORMATION.. SUNKEN POOL WITH NO RUNOFF.

GAS ANALYSIS

DATE/ANALYST..... 1971/06/30 GUNTER, H.O.

ANALYSIS IN MOLE %

AR...	1.2		
CH4..	0.49		
C2H6.		N2...	57.9
CO2..	38.	O2...	2.0
H2...	4		

ISOTOPES (00/0)

OTHER ANALYTICAL DATA... AH/N2 = 2.17.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEN-223

REFERENCE..... GUNTER, 1973

RECORD 00286

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020318

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - PINE SPRINGS GROUP - UNNAMED SPRING
 LOCATION TOWNSHIP=RANGE COORDINATES
 LAT/LONG... 44-28.42 N 110-50.45 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1971/06/29
 SAMPLE NUMBER..... 204
 TEMPERATURE (C)..... 83.
 DISCHARGE..... R 0.2 L/MIN

OTHER SAMPLE INFORMATION.. VERY SMALL SPRING.

GAS ANALYSIS

DATE/ANALYST..... 1971/07/00 GUNTER, B.D.
 ANALYSIS IN MOLE %

ISOTOPES (00/01)

AR...	1.2		
CH4...	0.99		
C2H6...		N2...	68.7
CO2...	15.	O2...	13.
H2...	0.9		

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-222
 REFERENCE..... GUNTER, 1973

RECORD 00287

 GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0020274

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - PUNCH BOWL SPRING
 LOCATION TOWNSHIP=RANGE COORDINATES

LAT/LONG... 44-28.25 N 110-51.95 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 70
 TEMPERATURE (C)..... 83.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %

ISOTOPES (00/01)

AR...	0.08		
CH4...	0.87		
C2H6...		N2...	6.61
CO2...	92.	O2...	0.69
H2...	0		

OTHER ANALYTICAL DATA... PH (EST. WITH PH PAPER) = 8.2.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-206
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00288

GEOTHERM FILE ID: 0020273

GEOTHERM SAMPLE FILENAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - PUNCHBOWL SPRING
LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-28.25 N 110-51.95 W

COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

SAMPLE NUMBER..... 13

TEMPERATURE (C)..... 92.8

WATER ANALYSIS

ANALYSIS IN PPM

AG....	CO3....	52.					
B....	F.....	20.	NA....	450.	SI02.	254.	
HE....	FE(TOT).		NH....		S04....	19.	
CA....	HCO3....	487.					
CL....		297.					
CO....	K.....	20.					

ISOTOPES (0/00)

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH4..	0.95		H2S..	N		
C2H6.			N2...	U 9.2		
CO2..	89.		O2...	0.8		
H2...	N					

ISOTOPES (00/01)

OTHER ANALYTICAL DATA... H2O3 = 19. PPM; S2O3 = 1. PPM.

QUALIFICATION FIELD..... N2 = N2 + AR

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-175
 REFERENCE..... ALLEN AND DAY, 1935.

RECORD 00289

GEOTHERM FILE ID: 0020323

GEOTHERM SAMPLE FILENAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - RIVERSIDE GEYSER
LOCATION TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

TEMPERATURE (C)..... 93.5

WATER ANALYSIS

ANALYSIS IN PPM

AG....	CO3....	54.	LI....		S....	T
AL....	N					
H....	U 2.0		F.....		NA....	372.
HE....			FE(TOT).	N	SI02.	242.
CA....	N		HCO3....	329.	NH....	10.
CL....	296.					
CO....			K.....	19.		

ISOTOPES (0/00)

OTHER ANALYTICAL DATA... S202 = 3. PPM.
 QUALIFICATION FIELD... B CALCULATED FROM B202.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE... ALLEN AND DAY, 1935

RECORD 00290

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020258

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - SAPPHIRE SPRING
 LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-28.48 N 110-51.15 W

COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 MAP REFERENCE... OLD FAITHFUL 1162500

OTHER LOCALITY INFORMATION: NORTH END OF BISQUIT BASIN.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1930/00/00
 TEMPERATURE (C)... 94.5

WATER ANALYSIS

CHARGE IMBALANCE (% DIFF)... 1.8

ANALYSIS IN PPM

AG....	CO3....	66.	LI...	S....	0 0.67
AL... N	CR....		MG... T		
H.... 4 2.4	F....	22.	NA... 453.	SI02..	321.
HE....	FE(TOT). T		NB...	S04..	15.
HI....	GA....		NH4.. N		
CA.... 4.	HCO3....	466.			
CL.... 307.					
CO....	K....	17.			

ISOTOPES (0/00)

QUALIFICATION FIELD... B CALCULATED FROM B2021 S CALCULATED FROM S202.

REFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE... ALLEN AND DAY, 1935

RECORD 00291

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020330

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - SAWMILL GEYSER
 LOCATION TOWNSHIP=RANGE

COORDINATES

COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1930/00/00
 TEMPERATURE (C)... 89.6

WATER ANALYSIS

ANALYSIS IN PPM

AG....	CO3....	106.	NB...	S04..	58.
HE....	FE(TOT).				
CA....	HCO3....	208.			
CL.... 381.					

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00292

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020334

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - SENTINEL SPRING
 LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 93.5

WATER ANALYSIS

ANALYSIS IN PPM

AG.... CO3..... 90.
 BE.... FE(TOT).
 CA.... HCO3..... 303.
 CL.... 240.

ISOTOPES (0/00)

NO... 504.. 12.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00293

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020321

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - SOLITARY SPRING
 LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 92.5

WATER ANALYSIS

CHARGE IMBALANCE (% DIFF)... 2.3

ANALYSIS IN PPM

AG.... CO3..... 47.
 AL.... N CR.....
 H.... F..... 22.
 BE.... FE(TOT). N
 NI.... GA.....
 CA.... 4. HCO3..... 68.
 CL.... 377.
 CU.... K..... 23.

ISOTOPES (0/00)

S.... 0 0.67

NO... 317. S102. 365.
 NH4.. N S04.. 21.

QUALIFICATION FIELD..... S CALCULATED FROM S202.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00294

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020329

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - SPASMODIC GEYSER
 LOCATION

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 93.5

WATER ANALYSIS

ANALYSIS IN PPM

AG....	CO3.....	152.			
HE....	FE(TOT).....		NB...	S04..	T
CA....	HCO3.....	104.			
CL....	368.				

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00295

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020336

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - SPLENDID GEYSER
 LOCATION

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 93.5

WATER ANALYSIS

ANALYSIS IN PPM

AG....	CO3.....	54.			
HE....	FE(TOT).....		NB...	S04..	25.
CA....	HCO3.....	538.			
CL....	368.				

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00296

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020327

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - SPONGE GEYSER
 LOCATION

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 93.5

WATER ANALYSIS

ANALYSIS IN PPM

AG....	CO3.....	105.			
HE....	FE(TOT).....		NB...	S04..	4.

ISOTOPES (0/00)

CL.... 429.

GAS ANALYSIS
ANALYSIS

C2H6.

N2... N

ISOTOPES (00/01)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00297

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020294

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - SPOUTER SPRING

LOCATION..... TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-27.7 N 110-51.3 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

TEMPERATURE (C)..... 92.5

WATER ANALYSIS

ANALYSIS IN PPM

ISOTOPES (0/00)

AG.... CO3..... 87.

HE.... FE(TOT)..... N8.... S04.. 29.

CA.... HCO3..... 463.

CL.... 313.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00298

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020283

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - SULFIDE SPRING

LOCATION..... TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-28.50 N 110-50.00 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00

SAMPLE NUMBER..... 2

TEMPERATURE (C)..... 77.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER AND MUSGRAVE

ANALYSIS IN MULE %

ISOTOPES (00/01)

CH4.. 1.0

C2H6. N2... 75.25

CO2.. 15. O2... 0 8.8

N2... N

OTHER ANALYTICAL DATA... PH = 6.3.

QUALIFICATION FIELD... 02 = 02 + AR

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEM-182
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00299

GEO THERM FILE ID: 0020271

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - TEAKETTLE SPRING
 LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-27.43 N 110-50.00 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE... OLD FAITHFUL 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1970/00/00
 SAMPLE NUMBER..... 12

WATER ANALYSIS

CHARGE IMBALANCE (% DIFF)... 2.6

ANALYSIS IN PPM

AG....	CO3....	4.	LI....	S....	N
AL.... N	CR....		MG....	N	
H....	FE....		NA....	357.	SI02. 357.
HE....	FE(TOT). N		NB....		S04.. 84.
HI....	GA....		NH4..	N	
CA.... 1.	HC03....	134.			
CL.... 414.					
CO....	K.....	23.			

ISOTOPES (0/00)

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH4.. 0.3	H25..	N
C2H6.	N2... 0	11.65
CO2.. 88.	O2... 0.3	
H2... N		

ISOTOPES (00/0)

OTHER ANALYTICAL DATA... S203 = 2. PPM; H203 = 21. PPM.

QUALIFICATION FIELD... N2 = N2 + AR

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEM-174
 REFERENCE..... ALLEN AND DAY, 1935.

RECORD 00300

GEO THERM FILE ID: 0020272

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - TEAKETTLE SPRING
 LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-27.43 N 110-50.00 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE... OLD FAITHFUL 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 120
 TEMPERATURE (C)..... 92.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER, B.O. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH₄... 0.08C₂H₆...CO₂... 23.H₂... 4N₂... 58.87O₂... 4 18.

ISOTOPES (00/0)

OTHER ANALYTICAL DATA... PH = 8.3.
 QUALIFICATION FIELD... O₂ = O₂ + AR
 REFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-211
 REFERENCE... GUNTER AND MUSGRAVE, 1966

RECORD 00301

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020278

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - THREE SISTERS SPRING
 LOCATION... TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-28.5 N 110-50.0 W

COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 MAP REFERENCE... OLD FAITHFUL 1162500

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1930/00/00
 TEMPERATURE (C)... 90.5

MAJOR ANALYSIS

ANALYSIS IN PPM

AG... 420.

HE... 420.

CA... 420.

CL... 420.

CO₃... 117.

FE(TOT)...

HCO₃... 10.

NH... 74.

S04... 74.

ISOTOPES (00/00)

REFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE... ALLEN AND DAY, 1935

RECORD 00302

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020279

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - THREE SISTERS SPRING
 LOCATION... TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-28.5 N 110-50.0 W

COUNTRY... UNITED STATES
 STATE... WYOMING
 COUNTY... TETON
 MAP REFERENCE... OLD FAITHFUL 1162500

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1965/06/00
 SAMPLE NUMBER... 1

GAS ANALYSIS

DATE/ANALYST... 1965/06/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

CH₄... 0.91C₂H₆...CO₂... 2.8H₂... 4N₂... 87.73O₂... 4 8.6

ISOTOPES (00/0)

OTHER ANALYTICAL DATA... PH = 8.9.

QUALIFICATION FIELD..... 02 = 02 + AR
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-181
 REFERENCE..... GUNTER AND MUSGHAVE, 1966

RECORD 00303

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - TOPAZ SPRING
 LOCATION TOWNSHIP-RANGE

GEOTHERM FILE 101 0020270

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500

COORDINATES
 LAT/LONG... 44-27.43 N 110-50.00 W

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH ₄ ..		H ₂ S..	N		
C ₂ H ₆ .		N ₂ ..	0	34.25	
CO ₂ ..	62.	O ₂ ..		3.8	
H ₂ ..	N				

ISOTOPES (00/0)

QUALIFICATION FIELD..... N2 = N2 + AR.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-173
 REFERENCE..... ALLEN AND DAY, 1935.

RECORD 00304

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - TORTOISE SHELL SPRING
 LOCATION TOWNSHIP-RANGE

GEOTHERM FILE 101 0020322

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

COORDINATES

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1930/00/00
 TEMPERATURE (C)..... 94.5

WATER ANALYSIS

ANALYSIS IN PPM

AG.....		CO ₃	76.	LI...		S....	T
AL.... N		CR.....		MG....	N		
H.....	3.0	F.....		NA....	420.	SI02.	329.
HE.....		FE(10T).. N		NB....		S04...	18.
CA.... N		MC03....	282.				
CL....	3dl.						
CO....		K.....	23.				

ISOTOPES (0/00)

OTHER ANALYTICAL DATA... S202 = J. PPM.
 QUALIFICATION FIELD..... 8 CALCULATED FROM 0202.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

RECORD 00307

GEOTHERM FILE ID: 0020299

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1162500

OTHER LOCALITY INFORMATION: 30M SE OF MORNING GLORY POOL.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 9

TEMPERATURE (C)..... 63.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

CH ₄ ..	1.3		
C ₂ H ₆ ..			
CO ₂ ..	88.	N ₂ ..	9.4
H ₂ ..	H	O ₂ ..	4 1.0

ISOTOPIES (00/01)

OTHER ANALYTICAL DATA... PH = 6.

QUALIFICATION FIELD..... 02 = U2 + AK.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEM-187
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00308

GEOTHERM FILE ID: 0020305

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1162500

OTHER LOCALITY INFORMATION: UPPER POOL OF GROUP 50M UPSTREAM FROM FIREHOLE BRIDGE.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 23

TEMPERATURE (C)..... 81.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

CH ₄ ..	0.64		
C ₂ H ₆ ..			
CO ₂ ..	96.	N ₂ ..	3.1
H ₂ ..	H	O ₂ ..	4 0.15

ISOTOPIES (00/01)

OTHER ANALYTICAL DATA... PH (EST. WITH PH PAPER) = 5.

QUALIFICATION FIELD..... 02 = U2 + AK.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

RECORD 00309

GEO THERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
LOCATION TOWNSHIP=RANGE
COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON
MAP REFERENCE..... OLD FAITHFUL 1162500
OTHER LOCALITY INFORMATION: 300M UPSTREAM FROM FIREHOLE BRIDGE, EAST BANK.

GEO THERM FILE ID: 0020303

COORDINATES
LAT/LONG... 44-27.58 N 110-49.07 W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00
SAMPLE NUMBER..... 21
TEMPERATURE (C)..... 90.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH ₄ ..	1.4		
C ₂ H ₆ ..		N ₂ ..	9.76
CO ₂ ..	88.	O ₂ ..	0 0.66
H ₂ ..	N		

ISOTOPES (0020)

OTHER ANALYTICAL DATA... PH = 7.4.
QUALIFICATION FIELD... O₂ = O₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX... NEH-196
REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00310

GEO THERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
LOCATION TOWNSHIP=RANGE

GEO THERM FILE ID: 0020301

COORDINATES
LAT/LONG... 44-28.20 N 110-50.45 W

COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON
MAP REFERENCE..... OLD FAITHFUL 1162500
OTHER LOCALITY INFORMATION: 300M DOWNSTREAM FROM MORNING GLORY POOL, ACROSS FROM FIREHOLE RIVER.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1965/06/13

SAMPLE NUMBER..... 8
TEMPERATURE (C)..... 91.

OTHER SAMPLE INFORMATION.. CLEAR SPRING 2M IN DIAMETER.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH ₄ ..	3.6		
C ₂ H ₆ ..		N ₂ ..	33.92
CO ₂ ..	80.	O ₂ ..	0 2.1
H ₂ ..	N		

ISOTOPES (0020)

OTHER ANALYTICAL DATA... PH = 8.2.
QUALIFICATION FIELD... O₂ = O₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-186
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00311

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE

GEOHERM FILE ID: 0020312

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

COORDINATES

LAT/LONG... 44-28.0 N 110-50.0 W

MAP REFERENCE..... OLD FAITHFUL 1162500
 OTHER LOCALITY INFORMATION: 2M ABOVE PIPELINE CREEK.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 20

POINT OF COLLECTION.. SMALL CONE

GAS ANALYSIS

DATE/ANALYST..... 1965/07/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

CH₄... 0.4C₂H₆...CO₂... 93.H₂... L 0.4N₂... 4.88O₂... 0 1.3

ISOTOPIES (00/0)

QUALIFICATION FIELD..... 02 = U₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-195
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00312

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE

GEOHERM FILE ID: 0020306

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

COORDINATES

LAT/LONG... 44-27.35 N 110-49.37 W

MAP REFERENCE..... OLD FAITHFUL 1162500

OTHER LOCALITY INFORMATION: LOWER POOL BY NO. 23, 50M SOUTH OF FIREHOLE BRIDGE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00

SAMPLE NUMBER..... 24

TEMPERATURE (C)..... 63.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

CH₄... 0.82C₂H₆...CO₂... 60.H₂... NN₂... 31.43O₂... 0 8.1

ISOTOPIES (00/0)

OTHER ANALYTICAL DATA... PH (EST. WITH PH PAPER) = 7.

QUALIFICATION FIELD, 02 = 02 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY LAWSON, WILLIAM A.
 COMPILER AFFILIATION U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX NEH-199
 REFERENCE GUNTER AND MUSGRAVE, 1966

RECORD 00313

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020310

NAME OF SAMPLE SOURCE . . . UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG . . . 44-28.0 N 110-50.0 W

COUNTRY UNITED STATES
 STATE WYOMING
 COUNTY TETON
 MAP REFERENCE OLD FAITHFUL 1162500
 OTHER LOCALITY INFORMATION: SOUGH OF PIPELINE CREEK.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR 1965/06/23 GUNTER AND MUSGRAVE
 SAMPLE NUMBER 18
 TEMPERATURE (C) 71.
 OTHER SAMPLE INFORMATION . . . LARGE CLEAR BLUE SPRING.

GAS ANALYSIS

DATE/ANALYST 1965/07/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

AR . . .	0.12		
CH ₄ . .	1.7		
C ₂ H ₆ . .		N ₂ . . .	11.22
CO ₂ . .	87.	O ₂ . . .	0.31
H ₂ . . .	N		

ISOTOPIES (00/00)

OTHER ANALYTICAL DATA . . . PH = 6.4

REFERENCE AND IDENTIFICATION

COMPILED BY LAWSON, WILLIAM A.
 COMPILER AFFILIATION U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX NEH-194
 REFERENCE GUNTER AND MUSGRAVE, 1966

RECORD 00314

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0020333

NAME OF SAMPLE SOURCE . . . UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE

COORDINATES

COUNTRY UNITED STATES
 STATE WYOMING
 COUNTY TETON
 OTHER LOCALITY INFORMATION: JUST BELOW FAN GEYSER.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR 1930/00/00
 TEMPERATURE (C) 92.5

WATER ANALYSIS

ANALYSIS IN PPM

AG		CO ₃	127.		
HE		FE(TOT) .		NO	
CA		MCU ₃ . . .	255.	S04 . . .	21.
CL	260.				

ISOTOPIES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... ALLEN AND DAY, 1935

RECORD 00315

GEOTHERM FILE ID: 0020288

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 OTHER LOCALITY INFORMATION: ACROSS HIGHWAY FROM CASTLE GEYSER.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/18
 SAMPLE NUMBER..... 44
 TEMPERATURE (C)..... 87.

COORDINATES

LAT/LONG... 44-27.50 N 110-50.00 W

GAS ANALYSIS

DATE/ANALYST..... 1965/06/19 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH₄... 6.4C₂H₆...CO₂... 46.H₂... NN₂... 43.89O₂... 0 3.4

ISOTOPES (00/01)

OTHER ANALYTICAL DATA... PH (EST. WITH PH PAPER) = 7.

QUALIFICATION FIELD..... 02 = 02 + AR

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-204
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00316

GEOTHERM FILE ID: 0020292

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 OTHER LOCALITY INFORMATION: 300 NW OF ECONOMIC GEYSER.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/23
 SAMPLE NUMBER..... 16

COORDINATES

LAT/LONG... 44-28.50 N 110-50.00 W

GAS ANALYSIS

DATE/ANALYST..... 1965/06/24 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

AR... 1.2

CH₄... 2.4C₂H₆...CO₂... TH₂... NN₂... 91.29O₂... 5.2

ISOTOPES (00/01)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX... NEH-192
REFERENCE..... GUNTER AND MUSGRAVE, 1966

PAGE 0166

RECORD 00317

GEOHEM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING

GEOHEM FILE ID: 0020309

LOCATION

COUNTRY..... UNITED STATES
STATE..... WYOMING

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-28.00 N 110-50.00 W

COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1162500

OTHER LOCALITY INFORMATION: NORTH OF PIPELINE CREEK.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1971/06/02

SAMPLE NUMBER..... 17

TEMPERATURE (C)..... 86.

DISCHARGE..... R 46. L/MIN

OTHER SAMPLE INFORMATION.. LARGE BROWN SPRING WITH PERIODIC OVERFLOW.

GAS ANALYSIS

DATE/ANALYST..... 1971/06/03 GUNTER, B.O.

ANALYSIS IN MULE %

AR... 0.18

CH4... 1.9

C2H6...

CO2... 85.

H2... 1

N2... 12.5

O2... 0.11

ISOTOPES (OO/O)

OTHER ANALYTICAL DATA... AR/N2 = 1.48.

REFERENCE AND IDENTIFICATION

COMPILER BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-215

REFERENCE..... GUNTER, 1973

RECORD 00318

GEOHEM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING

GEOHEM FILE ID: 0020302

LOCATION

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1162500

OTHER LOCALITY INFORMATION: 300M DOWNSTREAM FROM MORNING GLORY POOL, ACROSS FIREHOLE RIVER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1971/06/03 GUNTER, B.O.

SAMPLE NUMBER..... 8

OTHER SAMPLE INFORMATION.. CLEAR SPRING 2M IN DIAMETER

GAS ANALYSIS

DATE/ANALYST..... 1971/06/00 GUNTER, B.O.

ANALYSIS IN MULE %

AR... 0.97

CH4... 6.6

C2H6...

CO2... 38.

N2... 52.

O2... 2.0

ISOTOPES (OO/O)

H2... T
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-214
 REFERENCE..... GUNTER, 1973

RECORD 00319

GEOTHERM FILE ID: 0020313

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP=RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 OTHER LOCALITY INFORMATION: 150M DOWNSTREAM FROM FIREHOLE BRIDGE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1971/06/30 GUNTER, B.D.
 SAMPLE NUMBER..... 21
 TEMPERATURE (C)..... 91.
 DISCHARGE..... R 77.

COORDINATES
 LAT/LONG... 44-27.77 N 110-49.20 W

OTHER SAMPLE INFORMATION.. LARGE BOILING SPRING.

WATER ANALYSIS

DATE/ANALYST..... L/MIN

GAS ANALYSIS

DATE/ANALYST..... 1971/07/00 GUNTER, B.D.

ANALYSIS IN MOLE %

AR... 0.72

CH4... 1

C2H6...

CO2... 52.

N2... 37.8

O2... 9.9

ISOLUPES (0020)

H2... N
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-217
 REFERENCE..... GUNTER, 1973

RECORD 00320

GEOTHERM FILE ID: 0020311

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP=RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 OTHER LOCALITY INFORMATION: SOUTH OF PIPELINE CREEK.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1971/00/00
 SAMPLE NUMBER..... 1A
 TEMPERATURE (C)..... 75.
 DISCHARGE..... R 12. L/MIN
 OTHER SAMPLE INFORMATION.. LARGE CLEAR, BLUE SPRING.

COORDINATES
 LAT/LONG... 44-28.0 N 110-50.0 W

GAS ANALYSIS

DATE/ANALYST... 1971/00/00 GUNTER, B.D.

ANALYSIS IN MOLE %

AR...	0.36	N2...	15.8
CH4...	1.5	O2...	1.6
C2H6...			
CO2...	89.		
H2...	1		

ISOTOPES (00/0)

OTHER ANALYTICAL DATA... AR/N2 = 2.29.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM S.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEM-216
 REFERENCE..... GUNTER, 1973

RECORD 00321

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020289

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
LOCATIONTOWNSHIP-RANGECOORDINATES

LAT/LONG... 44-28.50 N 110-50.00 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1162500

OTHER LOCALITY INFORMATION: EAST BANK OF IRON SPRING CREEK, NW OF SPOUTER SPRING.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00

SAMPLE NUMBER..... 106

TEMPERATURE (C)..... 91.

GAS ANALYSIS

DATE/ANALYST... 1965/00/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH4...	1.3	N2...	7.07
C2H6...		O2...	4 0.96
CO2...	91.		
H2...	4		

ISOTOPES (00/0)

OTHER ANALYTICAL DATA... PH (EST. WITH PH PAPER) = 8.

QUALIFICATION FIELD... 02 = 02 + AR

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEM-208
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00322

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020275

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
LOCATIONTOWNSHIP-RANGECOORDINATES

LAT/LONG... 44-28.25 N 110-51.95 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1162500

OTHER LOCALITY INFORMATION: 2M NORTH OF PUNCH BOWL SPRING.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00

SAMPLE NUMBER..... 14

TEMPERATURE (C)..... 84.
 GAS ANALYSIS
 DATE/ANALYST..... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.
 ANALYSIS IN MOLE %
 CH₄... 0.31
 C₂H₆..... N₂... 82.87
 CO₂... 4.0..... O₂... 0 12.
 H₂... H

ISOTOPES (00/01)

OTHER ANALYTICAL DATA... PH = 9.2.
 QUALIFICATION FIELD..... O₂ = O₂ + AR
 REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-190
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00323

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020317

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-27.53 N 110-49.46 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1:62500

OTHER LOCALITY INFORMATION: 200 WEST OF 22 AT EDGE OF FIREHOLE RIVER.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1971/06/30

SAMPLE NUMBER..... 206

TEMPERATURE (C)..... 64.

DISCHARGE..... R 4.7 L/MIN

OTHER SAMPLE INFORMATION.. SMALL MUDDY SPRING.

GAS ANALYSIS

DATE/ANALYST..... 1971/06/30 GUNTER, B.D.

ANALYSIS IN MOLE %

AR... 0.76

CH₄... 1C₂H₆.....CO₂... 29.H₂... HN₂... 57.2O₂... 13.ISOTOPES (00/01)OTHER ANALYTICAL DATA... AR/N₂ = 1.46.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-221
 REFERENCE..... GUNTER, 1973

RECORD 00324

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0020316

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-27.35 N 110-49.37 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1:62500

OTHER LOCALITY INFORMATION: EAST BANK OF FIREHOLE RIVER; JUST NORTH OF NEW BRIDGE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1971/06/23

SAMPLE NUMBER..... 200

TEMPERATURE (C)..... 89.

DISCHARGE..... R 3.9 L/MIN

OTHER SAMPLE INFORMATION.. SMALL VIGOROUSLY ACTIVE SPRING.

GAS ANALYSIS

DATE/ANALYST..... 1971/06/24 GUNTER, B.O.

ANALYSIS IN MOLE %

AR... 1.0

CH₄... 1.1

C₂H₆...

CO₂... 0.49

H₂... N

N₂... 80.9

O₂... 16.

ISOTOPES (00/0)

OTHER ANALYTICAL DATA... AR/N₂ = 1.32.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-220

REFERENCE..... GUNTER, 1973

RECORD 00325

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020315

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING

LOCATION TOWNSHIP-RANGE

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1162500

COORDINATES

LAT/LONG... 44-27.67 N 110-49.63 W

OTHER LOCALITY INFORMATION: UPPERMOST SPRING IN A GROUP 250M DOWNSTREAM FROM NO. 21, ON EAST BANK.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1971/06/23

SAMPLE NUMBER..... 23

TEMPERATURE (C)..... 75.

DISCHARGE..... R 2. L/MIN

GAS ANALYSIS

DATE/ANALYST..... 1971/06/24 GUNTER, B.O.

ANALYSIS IN MOLE %

AR... 0.28

CH₄... 1

C₂H₆...

CO₂... 92.

H₂... H

N₂... 6.74

O₂... 0.55

ISOTOPES (00/0)

OTHER ANALYTICAL DATA... AR/N₂ = 4.48.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPIILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPIILER CROSS INDEX... NEH-219

REFERENCE..... GUNTER, 1973

RECORD 00326

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020314

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 OTHER LOCALITY INFORMATION: 20M DOWNSTREAM FROM 211 EAST BANK OF FIREHOLE RIVER, 170M DOWNSTREAM FROM BRIDGE EAST OF OLD FAITHFUL.

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-27.53 N 110-49.45 W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1971/06/30
 SAMPLE NUMBER..... 22
 TEMPERATURE (C)..... 82.
 DISCHARGE..... R 35, L/MIN
 OTHER SAMPLE INFORMATION.. SPRING IS SLIGHTLY TURBID.

GAS ANALYSIS

DATE/ANALYST..... 1971/06/30 GUNTER, B.D.

ANALYSIS IN MOLE %

AR... 1.0

CH₄... 1C₂H₆...CO₂... 16.H₂... NN₂... 65.9O₂... 17.

ISOTOPES (00/01)

OTHER ANALYTICAL DATA... AR/N₂ = 1.60.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEM-218
 REFERENCE..... GUNTER, 1973

RECORD 00327

GEO THERM SAMPLE TITLE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING

GEO THERM FILE ID: 0020260

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-28.4 N 110-51.53 W

OTHER LOCALITY INFORMATION: 20M WEST OF BOARDWALK IN HISQUIT BASIN.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 41
 TEMPERATURE (C)..... 80.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER, B.D. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH₄... 5.5C₂H₆...CO₂... 46.H₂... NN₂... 44.36O₂... 44.6

ISOTOPES (00/01)

OTHER ANALYTICAL DATA... PH(EST. WITH PH PAPER) = 7.5.

QUALIFICATION FIELD... 02=02 + AR

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEM-201
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00328

GEOTHERM FILE ID: 0020253

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING

LOCATION... TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-27.43 N 110-50.00 W

COUNTRY... UNITED STATES

STATE... WYOMING

COUNTY... TETON

MAP REFERENCE... OLD FAITHFUL 1162500

OTHER LOCALITY INFORMATION: 40M EAST OF LION SPRING.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1965/06/12

SAMPLE NUMBER... 7

TEMPERATURE (C)... 84.

GAS ANALYSIS

DATE/ANALYST... 1965/06/13 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

CH₄... 0.31C₂H₆...N₂... 96.71CO₂... 1O₂... 0.3H₂... N

OTHER ANALYTICAL DATA... PH=8.9

QUALIFICATION FIELD... 02=02 - AP

REFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEM-185

REFERENCE... GUNTER AND MUSGRAVE, 1966

ISOTOPES (00/01)

RECORD 00329

GEOTHERM FILE ID: 0020252

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING

LOCATION... TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-27.4 N 110-50.0 W

COUNTRY... UNITED STATES

STATE... WYOMING

COUNTY... TETON

OTHER LOCALITY INFORMATION: 40 M NORTH OF EAR SPRING.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1965/06/00

SAMPLE NUMBER... 6

TEMPERATURE (C)... 89.

GAS ANALYSIS

DATE/ANALYST... 1965/06/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

CH₄... 1C₂H₆...N₂... 89.57CO₂... 1O₂... 0.10H₂... N

OTHER ANALYTICAL DATA... PH=9.1

QUALIFICATION FIELD... 02=02+AM

REFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEM-184

ISOTOPES (00/01)

REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00330

GEOTHERM FILE ID: 0020250

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-27.7 N 110-49.5 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

OTHER LOCALITY INFORMATION: 40 M NORTH OF GIANTESS SPRING.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00

SAMPLE NUMBER..... 4

TEMPERATURE (C)..... 82.5

GAS ANALYSIS

DATE/ANALYST..... 1965/04/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

CH₄... 0.95C₂H₆...CO₂... 73.H₂... NN₂... 22.1O₂... 0.5.1ISOTOPIES 100701

OTHER ANALYTICAL DATA... PH=7.3

QUALIFICATION FIELD... 02-02-AR

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-183

REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00331

GEOTHERM FILE ID: 0020261

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - UNNAMED SPRING
LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-28.44 N 110-51.52 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1162500

OTHER LOCALITY INFORMATION: 10 METERS NE OF NO. 41

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/00

SAMPLE NUMBER..... 42

TEMPERATURE (C)..... 76.

GAS ANALYSIS

DATE/ANALYST..... 1965/06/00 GUNTER, B.O. AND MUSGRAVE, B.C.

ANALYSIS IN MOLE %

CH₄... 0.19C₂H₆...CO₂... 89.H₂... 1N₂... 8.34O₂... 0.5ISOTOPIES 100701

OTHER ANALYTICAL DATA... PH (EST. WITH PH PAPER) = 8.

QUALIFICATION FIELD... 02 = 02 - AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPIILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-202
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00332

GEOTHERM FILE ID: 0020259

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - WEST SPRING
 LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-28.43 N 110-51.53 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1162500

OTHER LOCALITY INFORMATION: IN BISCUIT BASIN.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1964/00/00

SAMPLE NUMBER..... 19

TEMPERATURE (C)..... 89.

OTHER SAMPLE INFORMATION.. SMALL BOILING WATER POOL.

GAS ANALYSIS

DATE/ANALYST..... 1964/00/00 MAZOR AND WASSERBURG

ANALYSIS IN VOLUME %

AR... 0.139

CH₄... 7.3C₂H₆...CO₂...

HE... 0.006129

H₂S.. NN₂... 6.1O₂... 2.2

ISOTOPES (00/00)

OTHER ANALYTICAL DATA... PH=7.1 NE=1.6 x 10(-4); KH=2.5 x 10(-5); XE=2.7 x 10(-6).

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-224

REFERENCE..... MAZOR AND WASSERBURG, 1965

RECORD 00333

GEOTHERM FILE ID: 0020331

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - WITCHES CAULDRON
 LOCATION TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1970/00/00

TEMPERATURE (C)..... 93.5

WATER ANALYSIS

ANALYSIS IN PPM

AG.... CO₃.... 54.

HE.... FE(TOT).. NH... 504.. 25.

CA.... HCO₃.... 342.

CL.... 355.

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... ALLEN AND DAY, 1935

RECORD 00334

GEOTHERM FILE 101 0020326

GEOTHERM SAMPLE FILENAME OF SAMPLE SOURCE... UPPER GEYSER BASIN - YELLOW BELL SPRING
LOCATION

COORDINATES

COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

WATER ANALYSIS

CHANGE IN BALANCE (% DIFF)... 0.3

ANALYSIS IN PPM

AG....		CO3.....	31.	LI....		S....	0 0.67
AL....	N	CH.....		HG....	N		
B....		F.....		HA....	114.	SI02.	137.
HE....		FE(TOT). N		NH....		S04..	14.
CA....	13.	HCO3.....	140.				
CL....	66.						
CO....		K.....	9.				

ISOTOPES (0/00)

QUALIFICATION FIELD..... S. CALCULATED FROM S202.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... ALLEN AND DAY, 1935

RECORD 00335

GEOTHERM FILE 101 0020482

GEOTHERM SAMPLE FILENAME OF SAMPLE SOURCE... WEST THUMB GEYSER BASIN - ABYSS POOL
LOCATION

COORDINATES

LAT/LONG... 44-25. N 110-34. W

COUNTRY..... UNITED STATES
STATE..... WYOMING
COUNTY..... TETON

MAP REFERENCE..... WEST THUMB 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00 GUNTER AND MUSGRAVE

POINT OF COLLECTION.. 92

TEMPERATURE (C)..... 90.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

CH4..	5.4		
C2H6.		N2...	78.23
CO2..	9.3	O2...	0 6.8
H2...	1 0.4		

ISOTOPES (00/0)

OTHER ANALYTICAL DATA... PH = 8.5.

QUALIFICATION FIELD..... O2 = O2 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
COMPILER CROSS INDEX... NEN-331
REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00336

GEOTHERM FILE ID: 0020483

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... WEST THUMB GEYSER BASIN - BLACK POOL

LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-25. N 110-34. W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... WEST THUMB 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00 GUNTER AND MUSGRAVE

SAMPLE NUMBER..... 93

TEMPERATURE (C)..... 78.5

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

ISOTOPES (00/0)CH₄.. 4.5C₂H₆..N₂... 84.28CO₂.. 3.7O₂... 0 7.5H₂... 0.4

OTHER ANALYTICAL DATA... PH = 8.3.

QUALIFICATION FIELD..... O₂ = O₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-332

REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00337

GEOTHERM FILE ID: 0020485

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... WEST THUMB GEYSER BASIN - EPHEURA GEYSER

LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-24. N 110-34. W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... WEST THUMB 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00 GUNTER AND MUSGRAVE

SAMPLE NUMBER..... 95

TEMPERATURE (C)..... 89.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

ISOTOPES (00/0)CH₄.. 1.0C₂H₆..N₂... 6.42CO₂.. 91.O₂... 0 1.1H₂... N

OTHER ANALYTICAL DATA... PH = 7.9.

QUALIFICATION FIELD..... O₂ = O₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-334

REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00338

GEOTHERM FILE ID: 0020484

GEOTHERM SAMPLE FILENAME OF SAMPLE SOURCE... WEST THUMB GEYSER BASIN - UNNAMED SPRING
LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-24. N 110-34. W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... WEST THUMB 1162500

OTHER LOCALITY INFORMATION: 60M SOUTHEAST OF LAKESHORE GEYSER AT TIN BOARDWALK.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/00/00 GUNTER AND MUSGRAVE

SAMPLE NUMBER..... 94

TEMPERATURE (C)..... 84.1

OTHER SAMPLE INFORMATION.. SMALL SPRING.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE

ANALYSIS IN MULE %

ISOTOPIES (00/01)

CH4.. 0.48

C2H6..

N2... 6.35

CO2.. 93.

O2... W 0.65

H2... N

OTHER ANALYTICAL DATA... PH = 8.3.

QUALIFICATION FIELD..... 02 = 02 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-333

REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00339

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0020481

NAME OF SAMPLE SOURCE... WEST THUMB GEYSER BASIN - UNNAMED SPRING
LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 44-25. N 110-34. W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... WEST THUMB 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

SAMPLE NUMBER..... 29

GAS ANALYSIS

ANALYSIS IN VOLUME %

ISOTOPIES (00/01)

CH4.. 0.75

H2S.. N

C2H6..

N2... W 16.95

CO2.. 82.

O2... 0.7

H2... N

QUALIFICATION FIELD..... N2 = N2 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPIILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPIILER CROSS INDEX... NEH-330

REFERENCE..... ALLEN AND DAY, 1935

RECORD 00340

GEOTHERM FILE ID: 0020480

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... WEST THUMB GEYSER BASIN - UNNAMED SPRING

LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-25.5 N 110-34.2 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... WEST THUMB 1162500

OTHER LOCALITY INFORMATION: APPROX. 630 FT WEST OF LAKE; SW OF DUCK LAKE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1930/00/00

SAMPLE NUMBER..... 28

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH₄.. 1.0C₂H₆..CO₂.. H₄..H₂.. HH₂S.. NN₂.. 0 12.6O₂.. 1.5

ISOTOPES (00/00)

QUALIFICATION FIELD..... N₂ = H₂ + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COMPILER CROSS INDEX... NEH-329

REFERENCE..... ALLEN AND DAY, 1935

RECORD 00341

GEOTHERM FILE ID: 0075083

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - BOILING SPRING

LOCATION TOWNSHIP=RANGE

COORDINATES

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

OTHER LOCALITY INFORMATION: SHOSHONE GEYSER BASIN YELLOWSTONE NATIONAL PARK.

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 12

TEMPERATURE (C)..... 94.

WATER ANALYSIS

P.H..... 7.03

CHARGE IMBALANCE (% DIFF)... 5.6

ANALYSIS

AG.....

AL..... 0.04

H..... 1.7

HE.....

CA..... 4.1

CL..... 135.

CO.....

CO₃..... 3.3

CR.....

F..... 15.

FE(TOT).. 0.05

HCO₃.... 449.

K..... 11.

LI... 1.6

MG... 0.05

F... 295.

NH... 36.

SI02.. 170.

SO4.. 36.

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... SILVA, CHRISTOPHER L.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... TRUESDALE AND FOURNIER, 1976

RECORD 00342

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - EAK SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 TOWNSHIP=RANGE

GEO THERM FILE ID: 0075091

COORDINATES

LAT/LONG... 44-27.4 N 110-50.0 W

OTHER LOCALITY INFORMATION: UPPER GEYSER BASIN YELLOWSTONE NATIONAL PARK.

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 3
 TEMPERATURE (C)..... 95.

WATER ANALYSIS

PH..... 9.03
 CHARGE IMBALANCE (% DIFF)... 3.9

ANALYSIS

AG....		CO3....		LI...	5.2	ISOTOPES (0/00)	
AL....		CR.....		MG...	0.01		
H.....	4.3	F.....	26.	NA...	335.	SI02.	362.
HE....		FE(TOT).	0.05	NB...		S04..	22.
HI....		GA.....		NH4..	0.4		
CA....	0.6	HCO3....	174.				
CU....		H2S.....	4.1				
CL....	417.						
CO....		K.....	17.				

REFERENCE AND IDENTIFICATION

COMPILED BY..... SILVA, CHRISTOPHER L.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00343

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - EXCELSIOR SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 TOWNSHIP=RANGE

GEO THERM FILE ID: 0075089

COORDINATES

LAT/LONG... 44-31.23 N 110-50.08 W

OTHER LOCALITY INFORMATION: MIDWAY GEYSER BASIN YELLOWSTONE NATIONAL PARK

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 5
 TEMPERATURE (C)..... 76.

WATER ANALYSIS

PH..... 8.03
 CHARGE IMBALANCE (% DIFF)... 4.8

ANALYSIS

AG....		CO3....	N	LI...	2.8	ISOTOPES (0/00)	
AL....	L 0.1	CR.....		MG...	0.1		
AS....	2.3	F.....	24.	NA...	385.	SI02.	303.
H.....	3.4	FE(TOT).	L 0.1	NB...		S04..	34.
HE....		HCO3....	546.				
CA....	2.5						
CL....	270.						
CO....		K.....	15.				

REFERENCE AND IDENTIFICATION

COMPILED BY..... SILVA, CHRISTOPHER L.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... RHECKENRIJGE AND HINCKLEY, 1978

RECORD 00344

GEOHERM SAMPLE FILE

GEOHERM FILE 101 0075081

NAME OF SAMPLE SOURCE... YELLOWSTONE - FIREHOLE LAKE (LOWER)
 LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-32.30 N 110-47.02 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: LOWER GEYSER BASIN, EAST OF FIREHOLE LAKE.

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 14

TEMPERATURE (C)..... 93.

DEPOSITS OR ALTERATION.... DILUTE TRAVERTINE DEPOSITS

WATER ANALYSIS

PH..... 6.83

CHARGE IMBALANCE (% DIFF)... 2.2

ANALYSIS

AG....		CO3.....		LI... 0.4					
AL....		CH.....		MG... 0.05					
H.... 6.5		F..... 10.		NA... 85.	S102.	213.			
HA....		FE+J...		NA+K.	SN...				
HF....		FE(TOT).		NB...	S04...	27.			
HI....		GA.....		NH4... 0.1					
CA.... 15.		HCO3... 165.							
CU....		H2S..... 0.2							
CL.... 44.									
CO....		K..... 16.							

ISOTOPES (0/00)

DEL C(13) OF CO2..... -4.4

GAS ANALYSIS

ANALYSIS

CH4....

H2S..

ISOTOPES (00/01)

SEL C(13) OF CH4..... -26.1

REFERENCE AND IDENTIFICATION

COMPILED BY..... SILVA, CHRISTOPHER L.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... TRUESDALE AND FOURNIER, 1976

RECORD 00345

GEOHERM SAMPLE FILE

GEOHERM FILE 101 0075082

NAME OF SAMPLE SOURCE... YELLOWSTONE - HILLSIDE (UPPER)
 LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-28.2 N 110-51.5 W

COUNTRY..... UNITED STATES

STATE..... WYOMING

COUNTY..... TETON

MAP REFERENCE..... OLD FAITHFUL 1162500

OTHER LOCALITY INFORMATION: LOWER GEYSER BASIN, WEST SIDE.

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 13

TEMPERATURE (C)..... 84.5

DEPOSITS OR ALTERATION.... DILUTE TRAVERTINE DEPOSITS

WATER ANALYSIS

PH..... 6.73
 CHARGE IMBALANCE (% DIFF)... 138.6

ANALYSIS

AG....		CO3....	16.	LI...	0.8		
AL....	0.12	CR....		MG...	0.16		
H....	1.1	F....	12.	NA...	149.	SI02.	168.
HE....		FE(TOT)...		NB...		S04..	14.
HI....		GA.....		NH4...	217.		
CA....	7.9						
CL....	72.						
CO....		K.....	7.5				

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... SILVA, CHRISTOPHER L.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... TRUESDALE AND FOURNIER, 1976

RECORD 00346

GEOTERM SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - LITTLE WHIRLIGIG GEYSER
 LOCATION TOWNSHIP-RANGE

GEOTERM FILE ID: 0075092

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

OTHER LOCALITY INFORMATION: NURRIS GEYSER BASIN YELLOWSTONE NATIONAL PARK.

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 2
 TEMPERATURE (C)..... 91.

WATER ANALYSIS

PH..... 3.24

ANALYSIS

AG....		CO3....	N	LI...	5.3		
AL....	2.1	CR....		MG...	0.5		
H....	9.2	F....	3.3	NA...	349.	SI02.	420.
HE....		FE(TOT)...	1.0	NB...		S04..	113.
CA....	2.5	HCO3....	N				
CL....	607.						
CO....		K.....	83.				

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... SILVA, CHRISTOPHER L.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00347

GEOTERM SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - NEAR CLEPSEDRA GEYSER
 LOCATION TOWNSHIP-RANGE

GEOTERM FILE ID: 0075086

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

OTHER LOCALITY INFORMATION: LOWER GEYSER BASIN YELLOWSTONE NATIONAL PARK.

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 8
 TEMPERATURE (C)..... 92.

WATER ANALYSIS

PH..... 9.03
 CHANGE IMBALANCE (% DIFF)... 0.3

ANALYSIS

AG.....		CO3.....	64.	LI...	6.7		
AL.....		CR.....		MG...	0.01		
H.....	3.0	F.....	38.	NA...	400.		
HE.....		FE(TOT)...	0.05	NH...		S102.	414.
HI.....		GA.....		NH4...	0.1	S04...	100.
CA.....	0.5	HCO3.....	159.				
CL.....	363.						
CO.....		K.....	24.				

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... SILVA, CHRISTOPHER L.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - OJU CALIENTE SPRING (RIVER GROUP)
 LOCATION... TOWNSHIP-RANGE
 COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... MADISON JUNCTION 1162500
 OTHER LOCALITY INFORMATION: LOWER GEYSER BASIN; YELLOWSTONE NATIONAL PARK; SW OF RUSH LAKE, EAST BANK OF FIREHOLE RIVER.

RECORD 00348

GEO THERM FILE ID: 0075087

COORDINATES

LAT/LONG... 44-33.18 N 110-49.51 W

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 7

TEMPERATURE (C)..... 95.

WATER ANALYSIS

PH..... 8.03
 CHANGE IMBALANCE (% DIFF)... 2.1

ANALYSIS

AG.....		CO3.....		LI...	4.2		
AL.....		CR.....		MG...	0.02		
H.....	4.1	F.....	31.	NA...	335.		
HA.....		FE+3.....		NA+K...		S102.	230.
HE.....		FE(TOT)...		NH...		SN...	
HI.....		GA.....		NH4...	0.3	S04...	24.
CA.....	0.9	HCO3.....	225.				
CL.....	331.	H2S.....	1.3				
CO.....		K.....	9.5				

ISOTOPES (0/00)

DEL C(13) OF CO2..... -6.4

GAS ANALYSIS

ANALYSIS

CH4.....

REFERENCE AND IDENTIFICATION

COMPILED BY..... SILVA, CHRISTOPHER L.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

ISOTOPES (00/01)

DEL C(13) OF CH4..... -20.6

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - RUSTIC GEYSER

RECORD 00349

GEO THERM FILE ID: 0075085

LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... WYOMING COORDINATES
 COUNTY..... TETON
 OTHER LOCALITY INFORMATION: HEART LAKE GEYSER BASIN YELLOWSTONE NATIONAL PARK.

SAMPLE DESCRIPTION AND CONDITIONS
 SAMPLE NUMBER..... 10
 TEMPERATURE (C)..... 91.

WATER ANALYSIS
 PH..... 8.73
 CHARGE IMBALANCE (% DIFF).... 1.9

ANALYSIS

AG.....		CO3.....		LI.....	5.	ISOTOPES (0/00)	
AL.....		CR.....		MG.....	0.05		
H.....	3.3	F.....	26.	NA.....	405.	SI02.	318.
HE.....		FE(TOT).		NB.....		S04..	160.
HI.....		GA.....		NH4..	0.1		
CA.....	1.2	HCO3.....	318.				
CL.....	3u3.						
CO.....		K.....	16.				

REFERENCE AND IDENTIFICATION
 COMPILED BY..... SILVA, CHRISTOPHER L.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... BRECKENRIDGE AND MINCKLEY, 1978

RECORD 00350

 GEOTHERM SAMPLE FILE GEOTHERM FILE 101 0075090
 NAME OF SAMPLE SOURCE... YELLOWSTONE - SAPPHIRE SPRING

LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... WYOMING COORDINATES
 COUNTY..... TETON LAT/LONG... 44-28.48 N 110-51.15 W
 MAP REFERENCE..... OLD FAITHFUL 1162500
 OTHER LOCALITY INFORMATION: UPPER GEYSER BASIN YELLOWSTONE NATIONAL PARK. NORTH END OF BISQUIT BASIN.

SAMPLE DESCRIPTION AND CONDITIONS
 SAMPLE NUMBER..... 4
 TEMPERATURE (C)..... 95.

WATER ANALYSIS
 PH..... 8.93
 CHARGE IMBALANCE (% DIFF).... 0.2

ANALYSIS

AG.....		CO3.....		LI.....	2.3	ISOTOPES (0/00)	
AL.....		CR.....		MG.....	0.01		
H.....	3.2	F.....	30.	NA.....	450.	SI02.	334.
HE.....		FE(TOT).		NB.....		S04..	17.
HI.....		GA.....		NH4..	0.2		
CA.....	0.3	HCO3.....	595.				
CL.....	3u8.	H2S.....	2.6				
CO.....		K.....	16.				

REFERENCE AND IDENTIFICATION
 COMPILED BY..... SILVA, CHRISTOPHER L.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... BRECKENRIDGE AND MINCKLEY, 1978

RECORD 00351

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - SNURT SPRING
 LOCATION

GEOHERM FILE ID: 0075088

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

TOWNSHIP-RANGE

COORDINATES

OTHER LOCALITY INFORMATION: LOWER GEYSER BASIN YELLOWSTONE NATIONAL PARK.

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 6
 TEMPERATURE (C)..... 93.

WATER ANALYSIS

PH..... 9.34
 CHARGE IMBALANCE (% DIFF)..... 2.1

ANALYSIS

AG....		CO3.....	69.	LI...	4.		
AL....	0.18	CR.....		MG...	0.04		
H....	4.1	F.....	33.	NA...	314.	SI02.	242.
HE....		FE(TOT)...	0.01	NB...		S04..	23.
HI....		GA.....		NH4..	0.1		
CA....	1.6	HCO3.....	41.				
CD....		H2S.....	1.3				
CL....	344.						
CO....		K.....	10.				

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... SILVA, CHRISTOPHER L.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

RECORD 00352

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - SPIKE GEYSER
 LOCATION

GEOHERM FILE ID: 0075094

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

TOWNSHIP-RANGE

COORDINATES

OTHER LOCALITY INFORMATION: HEART LAKE GEYSER BASIN YELLOWSTONE NATIONAL PARK.

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 9
 TEMPERATURE (C)..... 93.5

WATER ANALYSIS

PH..... 8.93
 CHARGE IMBALANCE (% DIFF)..... 0.2

ANALYSIS

AG....		CO3.....	64.	LI...	6.7		
AL....		CR.....		MG...	0.01		
H....	3.6	F.....	38.	NA...	400.	SI02.	366.
HE....		FE(TOT)...		NB...		S04..	100.
HI....		GA.....		NH4..	0.1		
CA....	9.9	HCO3.....	159.				
CL....	363.						
CO....		K.....	24.				

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... SILVA, CHRISTOPHER L.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... TRUESDALE AND FOURNIER, 1976

RECORD 00353

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0075084

NAME OF SAMPLE SOURCE... YELLOWSTONE - SPRING 192
 LOCATION TOWNSHIP=RANGE

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

OTHER LOCALITY INFORMATION: SHUSHONE GEYSER BASIN YELLOWSTONE NATIONAL PARK

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 11
 TEMPERATURE (C)..... 89.5

WATER ANALYSIS

PH..... 7.43
 CHARGE IMBALANCE (% DIFF)... 1.9

ANALYSIS

AG....		CO3....		LI....	1.5		
AL....		CR....		MG....	0.01		
H....	3.7	F....	22.	NA....	350.	SI02.	350.
HE....		FE(TOT).		NH....		S04..	70.
HI....		GA....		NH4..	0.1		
CA....	0.3	HCO3....	230.				
CL....	323.						
CO....		K....	13.				

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... SILVA, CHRISTOPHER L.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... TRUESDALE AND FOURNIER, 1976

RECORD 00354

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0075080

NAME OF SAMPLE SOURCE... YELLOWSTONE - TERRACE
 LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 44-39.00 N 110-50.45 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON

MAP REFERENCE..... MADISON JUNCTION 1162500

OTHER LOCALITY INFORMATION: YELLOWSTONE NATIONAL PARK; 3345 FT NE OF MADISON JUNCTION; NORTH SIDE OF GRAND LOOP ROAD.

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 15
 TEMPERATURE (C)..... 66.

DEPOSITS OR ALTERATION... DILUTE TRAVERTINE DEPOSITS

WATER ANALYSIS

PH..... 6.32
 CHARGE IMBALANCE (% DIFF)... 0.5

ANALYSIS

AG....		CO3....	50.	LI....	0.6		
AL....	0.18	CR....		MG....	0.8		
H....	1.1	F....	6.7	NA....	324.	SI02.	148.
HE....		FE(TOT).	0.15	NH....		S04..	11.

ISOTOPES (0/00)

CA.... 6.7 HCO3.... 696.
 CD.... H25.... 0.2
 CL.... 69.
 CO.... K.... 37.

REFERENCE AND IDENTIFICATION

COMPILED BY..... SILVA, CHRISTOPHER L.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... TRUESDALE AND FOURNIER, 1976

RECORD 00355

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - UPPER GEYSER BASIN - UNNAMED SPRING
 LOCATION TOWNSHIP-RANGE COORDINATES
 LAT/LONG... 44-28.5 N 110-50.0 W

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON
 MAP REFERENCE..... OLD FAITHFUL 1162500
 OTHER LOCALITY INFORMATION: NORTH OF PIPELINE CREEK.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/06/00
 SAMPLE NUMBER..... 17
 TEMPERATURE (C)..... 87.
 OTHER SAMPLE INFORMATION.. LARGE BROWN POOL IN STREAM.

GAS ANALYSIS

DATE/ANALYST..... 1965/00/00 GUNTER AND MUSGRAVE

ANALYSIS IN MOLE %

AR... 0.05
 CH4.. 1.0
 C2H6..
 CO2.. 94. N2... 5.4
 H2... N O2... T

ISOTOPES (00701)

OTHER ANALYTICAL DATA... PH = 6.1.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 COMPILER CROSS INDEX... NEH-193
 REFERENCE..... GUNTER AND MUSGRAVE, 1966

RECORD 00356

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... YELLOWSTONE - PERPETUAL SP OUTER
 LOCATION TOWNSHIP-RANGE COORDINATES

COUNTRY..... UNITED STATES
 STATE..... WYOMING
 COUNTY..... TETON (?)
 OTHER LOCALITY INFORMATION: HOT SPRINGS BASIN YELLOWSTONE NATIONAL PARK.
 SAMPLE DESCRIPTION AND CONDITIONS
 SAMPLE NUMBER..... 17
 TEMPERATURE (C)..... 89.

WATER ANALYSIS

P.I..... J.03

ANALYSIS

AG.... CO3.... LI... 0.04
 AL.... CH.... MG... 3.8

ISOTOPES (02001)

B.....	5.	F.....	0.8	NA...	187.	SiO2.	317.
HE.....		FE(TOT).		NB...		S04..	1530.
HI.....		GA.....		NH4..	171.		
CA.....	37.						
CL.....	0.1						
CO.....		K.....	16.				

REFERENCE AND IDENTIFICATION

COMPILED BY..... SILVA, CHRISTOPHER L.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... BRECKENRIDGE AND HINCKLEY, 1978

APPENDIX A

Index to GEOTHERM'S sample file for the state of Wyoming. This computer generated appendix contains some truncated fields. The index is sorted by county and name of the source. TNS - township, RNG range, Sect. - section, I.D. - GEOTHERM record identifier, Temp. - temperature °C (see Table 1 for explanation of alphabetic qualifiers preceding temperature.)

<u>County</u>	<u>Name of Source</u>	<u>Latitude</u>	<u>Longitude</u>	<u>TNS</u>	<u>RNG</u>	<u>Sect.</u>	<u>I.D.</u>	<u>Temp.</u>
BIG HORN	LITTLE SHEEP MOUNTAIN SPRING	44-44.90 N	108-11.35 W	55N	094W	17	0075000	20.
BIG HORN	SHEEP MOUNTAIN SPRINGS	44-36.45 N	108-08.13 W	54N	094W	35	0075001	21.
CARBON	SARATOGA HOT SPRINGS, HOBO POOL	41-27.00 N	106-48.40 W	17N	084W	13	0075002	Q 48.0
CARBON	SARATOGA HOT SPRINGS, HOBO POOL	41-27.00 N	106-48.40 W	17N	084W	13	0075006	Q 48.
CARBON	SARATOGA HOT SPRINGS, HOBO POOL	41-27.00 N	106-48.40 W	17N	084W	13	0075004	Q 48.
CARBON	SARATOGA HOT SPRINGS, HOBO POOL	41-27.00 N	106-48.40 W	17N	084W	13	0075003	Q 48.
CARBON	SARATOGA HOT SPRINGS, HOBO POOL	41-27.00 N	106-48.40 W	17N	084W	13	0075005	49.
CONVERSE	DOUGLAS WARM SPRING	42-39.88 N	105-23.62 W	31N	071W	08	0075007	30.0
FREMONT	CONANT CREEK SPRINGS	42-48.02 N	108-03.03 W	33N	094W	26	0075008	16.0
FREMONT	FORT WASHAKIE HOT SPRINGS	43-00.48 N	108-50.08 W	01S	001W	02	0075009	44.0
FREMONT	FORT WASHAKIE HOT SPRINGS	43-00.48 N	108-50.08 W	01S	001W	02	0075010	46.5
FREMONT	FORT WASHAKIE HOT SPRINGS	43-00.48 N	108-50.08 W	01S	001W	02	0075011	44.5
FREMONT	JAKEYS FORK SPRING	43-29.38 N	109-36.48 W	41N	106W	29	0075012	20.0
FREMONT	LITTLE WARM SPRING	43-31.22 N	109-40.00 W	41N	107W	14	0075014	Q 25.
FREMONT	LITTLE WARM SPRING	43-31.22 N	109-40.00 W	41N	107W	14	0075013	25.0
FREMONT	SWEETWATER STATION SPRING NO. 1	42-29.53 N	108-10.25 W	29N	095W	15	0075017	30.0
FREMONT	SWEETWATER STATION SPRING NO. 2	42-29.53 N	108-10.25 W	29N	095W	15	0075019	Q 31.5
FREMONT	SWEETWATER STATION SPRING NO. 2	42-29.53 N	108-10.25 W	29N	095W	15	0075018	31.5
FREMONT	WARM SPRING CREEK SPRINGS	43-33.60 N	109-43.88 W	42N	107W	32	0075016	Q 29.
FREMONT	WARM SPRING CREEK SPRINGS	43-33.60 N	109-43.88 W	42N	107W	32	0075015	29.0
HOT SPRINGS	BATHTUB SPRING	43-39.67 N	108-11.72 W	43N	095W	25	0075025	53.0
HOT SPRINGS	BIG SPRING	43-39.27 N	108-11.62 W	43N	094W	31	0075032	Q 56.
HOT SPRINGS	BIG SPRING	43-39.27 N	108-11.62 W	43N	094W	31	0075030	56.0
HOT SPRINGS	BIG SPRING	43-39.27 N	108-11.62 W	43N	094W	31	0075035	Q 56.
HOT SPRINGS	BIG SPRING	43-39.27 N	108-11.62 W	43N	094W	31	0075034	Q 56.
HOT SPRINGS	BIG SPRING	43-39.27 N	108-11.62 W	43N	094W	31	0075033	Q 56.
HOT SPRINGS	BIG SPRING	43-39.27 N	108-11.62 W	43N	094W	31	0075031	Q 56.
HOT SPRINGS	BLACK SULPHUR SPRING	43-39.32 N	108-11.63 W	43N	095W	36	0075029	Q 55.
HOT SPRINGS	HAYTAG WELL	43-40.47 N	108-12.23 W	43N	095W	24	0075021	54.0
HOT SPRINGS	MCCARTHY WELL	43-39.90 N	108-11.67 W	43N	094W	25	0075024	54.0
HOT SPRINGS	PILING SPRING	43-39.27 N	108-12.00 W	43N	095W	36	0075028	35.0
HOT SPRINGS	SACAJAWEA WELL	43-40.30 N	108-12.23 W	43N	095W	25	0075023	Q 52.
HOT SPRINGS	SACAJAWEA WELL	43-40.30 N	108-12.23 W	43N	095W	25	0075022	52.0
HOT SPRINGS	YAN NORMAN WELL	43-40.47 N	108-12.50 W	43N	095W	24	0075020	51.0
HOT SPRINGS	WHITE SULPHUR SPRING	43-39.67 N	108-11.68 W	43N	094W	30	0075027	Q 53.
HOT SPRINGS	WHITE SULPHUR SPRING	43-39.67 N	108-11.68 W	43N	094W	30	0075026	53.0
HOT SPRINGS	WIND RIVER CANYON SPRING	43-34.92 N	108-13.73 W	42N	095W	25	0075036	22.0
HOT SPRINGS	WIND RIVER CANYON SPRING	43-34.92 N	108-13.73 W	42N	095W	25	0075037	Q 22.
LINCOLN	AUBURN AREA	42-49.50 N	111-00.00 W				0000779	16.0
LINCOLN	AUBURN HOT SPRINGS	42-50.42 N	110-59.50 W	33N	119W	23	0075041	Q 62.0
LINCOLN	AUBURN HOT SPRINGS	42-50.42 N	110-59.50 W	33N	119W	23	0075040	Q 16.0
LINCOLN	AUBURN HOT SPRINGS	42-50.42 N	110-59.50 W	33N	119W	23	0075039	Q 62.0
LINCOLN	AUBURN HOT SPRINGS	42-50.42 N	110-59.50 W	33N	119W	23	0075038	Q 62.0
LINCOLN	JOHNSON SPRINGS	42-49.08 N	110-59.50 W	33N	119W	26	0075042	46.0
NATRONA	ALCOVA HOT SPRINGS	42-32.28 N	106-43.27 W	30N	083W	25	0075044	59.0
NATRONA	ALCOVA HOT SPRINGS	42-32.28 N	106-43.27 W	30N	083W	25	0075043	54.0

NATRONA	HORSE CREEK SPRINGS	42-42.10	N 107-06.33	W 32N 086W	35	0075045	23.5
PARK	BUFFALO BILL RESERVOIR SPRINGS	44-28.50	N 109-12.25	W 52N 103W	12	0075046	
PARK	DE MARIS HOT SPRINGS	44-30.78	N 109-06.88	W 52N 102W	03	0075050	Q 24.
PARK	DE MARIS HOT SPRINGS	44-30.78	N 109-06.88	W 52N 102W	03	0075048	Q 37.0
PARK	DE MARIS HOT SPRINGS	44-30.78	N 109-06.88	W 52N 102W	03	0075054	Q 27.5
PARK	DE MARIS HOT SPRINGS	44-30.78	N 109-06.88	W 52N 102W	03	0075049	27.0
PARK	DE MARIS HOT SPRINGS	44-30.78	N 109-06.88	W 52N 102W	03	0075053	Q 27.0
PARK	DE MARIS HOT SPRINGS	44-30.78	N 109-06.88	W 52N 102W	03	0075052	Q 27.0
PARK	DE MARIS HOT SPRINGS	44-30.78	N 109-06.88	W 52N 102W	03	0075051	Q 28.0
PARK	DE MARIS HOT SPRINGS	44-30.78	N 109-06.88	W 52N 102W	03	0075047	36.0
PARK	MAMMOTH HOT SPRINGS - ANGEL TERRACE	44-58.	N 110-42.	W		0020464	
PARK	MAMMOTH HOT SPRINGS - CAVERN TERRACE	44-58.	N 110-42.	W		0020470	66.4
PARK	MAMMOTH HOT SPRINGS - CLEOPATRA SPRING	44-58.5	N 110-42.6	W		0020460	
PARK	MAMMOTH HOT SPRINGS - CLEOPATRA SPRING	44-58.5	N 110-42.6	W		0020459	
PARK	MAMMOTH HOT SPRINGS - CUPID SPRING	44-58.	N 110-42.	W		0020471	71.
PARK	MAMMOTH HOT SPRINGS - HYMEN TERRACE	44-58.	N 110-42.	W		0020465	70.5
PARK	MAMMOTH HOT SPRINGS - JUPITER TERRACE	44-58.	N 110-42.	W		0020467	71.
PARK	MAMMOTH HOT SPRINGS - MAIN TERRACE	44-58.	N 110-42.	W		0020466	73.
PARK	MAMMOTH HOT SPRINGS - MINERVA SPRINGS	44-58.	N 110-42.	W		0020473	75.
PARK	MAMMOTH HOT SPRINGS - NEW HIGHLAND TERRACE	44-58.	N 110-42.	W		0020472	74.
PARK	MAMMOTH HOT SPRINGS - PALETTE TERRACE	44-58.	N 110-42.	W		0020469	
PARK	MAMMOTH HOT SPRINGS - UNNAMED SPRING	44-58.	N 110-42.	W		0020468	
PARK	MAMMOTH HOT SPRINGS - UNNAMED SPRING	44-58.	N 110-42.	W		0020463	
PARK	MAMMOTH HOT SPRINGS - UNNAMED SPRING	44-58.	N 110-42.	W		0020462	
PARK	MAMMOTH HOT SPRINGS - UNNAMED SPRING	44-58.	N 110-42.	W		0020461	
PARK	NORRIS GEYSER BASIN - "BATH-TUB" SPRING	44-43.	N 110-43.	W		0020445	
PARK	NORRIS GEYSER BASIN - "BATH-TUB" SPRING	44-43.	N 110-43.	W		0020444	
PARK	NORRIS GEYSER BASIN - BATHTUB SPRING	44-43.	N 110-43.	W		0020446	93.
PARK	NORRIS GEYSER BASIN - BLACK GROWLER	44-43.	N 110-43.	W		0020426	
PARK	NORRIS GEYSER BASIN - BLACK GROWLER	44-43.	N 110-43.	W		0020425	
PARK	NORRIS GEYSER BASIN - BLACK HERON CAULDRON	44-43.	N 110-42.	W		0020449	93.
PARK	NORRIS GEYSER BASIN - CINDER POOL (NO. 17)	44-44.	N 110-43.	W		0020431	
PARK	NORRIS GEYSER BASIN - CONGRESS POOL	44-43.80	N 110-42.00	W		0020434	
PARK	NORRIS GEYSER BASIN - CORAL SPRING	44-43.	N 110-42.	W		0020421	
PARK	NORRIS GEYSER BASIN - ECHINUS GEYSER	44-43.58	N 110-42.42	W		0020422	
PARK	NORRIS GEYSER BASIN - EMERALD SPRING	44-43.	N 110-43.	W		0020440	88.
PARK	NORRIS GEYSER BASIN - GABLE SPRING (NO. 32)	44-43.	N 110-42.	W		0020430	
PARK	NORRIS GEYSER BASIN - GEYSER NO. 27	44-43.56	N 110-42.40	W		0020423	
PARK	NORRIS GEYSER BASIN - GREEN DRAGON SPRING	44-43.	N 110-43.	W		0020442	84.
PARK	NORRIS GEYSER BASIN - IRIS SPRING (NO. 71)	44-44.	N 110-42.	W		0020420	
PARK	NORRIS GEYSER BASIN - PEARL GEYSER	44-43.	N 110-43.	W		0020441	85.
PARK	NORRIS GEYSER BASIN - PORCELAIN BASIN NO. 24	44-44.	N 110-43.	W		0020428	
PARK	NORRIS GEYSER BASIN - PORCELAIN BASIN NO. 70	44-44.	N 110-43.	W		0020427	
PARK	NORRIS GEYSER BASIN - SPRING NO. 1	44-43.	N 110-42.	W		0020403	
PARK	NORRIS GEYSER BASIN - SPRING NO. 15	44-43.	N 110-42.	W		0020409	
PARK	NORRIS GEYSER BASIN - SPRING NO. 18	44-43.	N 110-42.	W		0020410	
PARK	NORRIS GEYSER BASIN - SPRING NO. 19	44-43.	N 110-42.	W		0020411	
PARK	NORRIS GEYSER BASIN - SPRING NO. 20	44-43.75	N 110-42.47	W		0020424	
PARK	NORRIS GEYSER BASIN - SPRING NO. 21	44-43.	N 110-42.	W		0020412	
PARK	NORRIS GEYSER BASIN - SPRING NO. 23	44-43.	N 110-42.	W		0020413	
PARK	NORRIS GEYSER BASIN - SPRING NO. 25	44-43.81	N 110-42.03	W		0020436	
PARK	NORRIS GEYSER BASIN - SPRING NO. 30	44-43.	N 110-42.	W		0020414	
PARK	NORRIS GEYSER BASIN - SPRING NO. 33	44-43.	N 110-42.	W		0020415	
PARK	NORRIS GEYSER BASIN - SPRING NO. 4	44-43.	N 110-42.	W		0020404	
PARK	NORRIS GEYSER BASIN - SPRING NO. 5	44-43.	N 110-42.	W		0020405	

PARK	NORRIS GEYSER BASIN - SPRING NO. 6	44-43.	N 110-42.	W	0020406	
PARK	NORRIS GEYSER BASIN - SPRING NO. 61	44-43.	N 110-43.	W	0020417	
PARK	NORRIS GEYSER BASIN - SPRING NO. 62	44-44.	N 110-42.	W	0020418	
PARK	NORRIS GEYSER BASIN - SPRING NO. 68	44-44.	N 110-42.	W	0020419	
PARK	NORRIS GEYSER BASIN - SPRING NO. 7	44-43.	N 110-42.	W	0020407	
PARK	NORRIS GEYSER BASIN - SPRING NO. 9	44-43.	N 110-42.	W	0020408	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.80	N 110-41.98	W	0020435	92.
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-44.	N 110-43.	W	0020433	79.
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-43.	W	0020439	90.6
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.	N 110-43.	W	0020438	92.
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-44.	N 110-43.	W	0020429	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.58	N 110-42.42	W	0020448	91.
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.58	N 110-42.42	W	0020447	70.
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.8	N 110-42.5	W	0020457	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.8	N 110-42.5	W	0020456	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.7	N 110-42.6	W	0020455	85.
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.7	N 110-42.6	W	0020454	73.
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.8	N 110-42.7	W	0020453	90.
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.8	N 110-42.7	W	0020452	89.
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.8	N 110-42.7	W	0020451	90.
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.8	N 110-42.7	W	0020450	89.
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	44-43.7	N 110-42.6	W	0020458	80.
PARK	NORRIS GEYSER BASIN - UNNAMED STEAM VENT	44-44.	N 110-43.	W	0020437	
PARK	NORRIS GEYSER BASIN - UPPER GREEN DRAGON SPRING	44-43.	N 110-43.	W	0020443	94.
PARK	NORRIS GEYSER BASIN - VERMILLION POOL	44-44.	N 110-43.	W	0020432	94.
PARK	YELLOWSTONE - CALCITE NO. 1	44-54.65	N 110-23.78	W	0020503	92.5
PARK	YELLOWSTONE - CALCITE NO. 2	44-54.65	N 110-23.78	W	0020505	89.4
PARK	YELLOWSTONE - CALCITE SPRINGS	44-54.65	N 110-23.78	W	0020504	
PARK	YELLOWSTONE - CALCITE SPRINGS	44-54.65	N 110-23.78	W	0020502	
PARK	YELLOWSTONE - CHOCOLATE POTS	44-42.78	N 110-44.67	W	0020506	51.
PARK	YELLOWSTONE - CHOCOLATE POTS	44-42.77	N 110-44.67	W	0020507	52.
PARK	YELLOWSTONE - DEVIL'S INKPOT	44-45.53	N 110-25.85	W	0020494	
PARK	YELLOWSTONE - DEVIL'S INKPOT	44-45.53	N 110-25.85	W	0020492	
PARK	YELLOWSTONE - DEVIL'S INKPOT	44-45.53	N 110-25.85	W	0020493	81.5
PARK	YELLOWSTONE - MUD VOLCANO	44-37.28	N 110-25.58	W	0020500	85.5
PARK	YELLOWSTONE - NEW HIGHLAND	44-58.	N 110-42.	W	0075079	73.5
PARK	YELLOWSTONE - NORRIS GEYSER BASIN - SPRING NO.	44-43.	N 110-42.	W	0020416	
PARK	YELLOWSTONE - PORK CHOP SPRING				0075093	71.
PARK	YELLOWSTONE - SULFUR POOL	44-37.28	N 110-25.58	W	0020501	
PARK	YELLOWSTONE - UNNAMED SPRING				0020508	
PARK	YELLOWSTONE - UNNAMED SPRING	44-32.38	N 110-15.22	W	0020499	86.1
PARK	YELLOWSTONE - UNNAMED SPRING	44-32.48	N 110-15.35	W	0020498	88.8
PARK	YELLOWSTONE - UNNAMED SPRING	44-46.00	N 110-25.80	W	0020497	88.
PARK	YELLOWSTONE - UNNAMED SPRING	44-46.00	N 110-25.80	W	0020496	
PARK	YELLOWSTONE - UNNAMED SPRING	44-46.00	N 110-25.80	W	0020495	
PARK	YELLOWSTONE - UNNAMED SPRING	44-39.53	N 110-28.75	W	0020491	87.
PARK	YELLOWSTONE - UNNAMED SPRING	44-39.50	N 110-29.00	W	0020490	70.6
PARK	YELLOWSTONE - UNNAMED SPRING	44-39.50	N 110-28.93	W	0020489	85.
PARK	YELLOWSTONE - UNNAMED SPRING	44-39.50	N 110-28.93	W	0020488	79.8
PLATTE	IMMIGRANTS WASH TUB	42-14.97	N 104-46.82	W 26N 066W 04	0075056	Q 21.
PLATTE	IMMIGRANTS WASH TUB	42-14.97	N 104-46.82	W 26N 066W 04	0075055	Q 21.0
SUBLETTE	BIG FALL CREEK SPRINGS	42-23.92	N 110-30.68	W 28N 115W 20	0075062	16.0
SUBLETTE	KENDALL WARM SPRINGS	43-16.93	N 110-01.13	W 38N 110W 02	0075057	29.5
SUBLETTE	KENDALL WARM SPRINGS	43-16.93	N 110-01.13	W 38N 110W 02	0075058	Q 29.5
SUBLETTE	STEELE HOT SPRINGS - SPRING 1	42-44.98	N 109-36.97	W 32N 107W 16	0075059	35.5

SUBLETTE	STEELE HOT SPRINGS - SPRING 1	42-44.98 N 109-36.97 W 32N 107W	16	0075060	Q 35.5
SUBLETTE	STEELE HOT SPRINGS - SPRING 2	42-44.98 N 109-36.97 W 32N 107W	16	0075061	39.0
TETON	ABERCROMBIE WARM SPRINGS	43-32.75 N 110-44.37 W 41N 116W	02	0075063	27.0
TETON	ASTORIA SPRINGS	43-18.00 N 110-46.48 W 39N 116W	32	0075064	37.0
TETON	BLACK SAND BASIN - UNNAMED SPRING	44-27.67 N 110-51.65 W		0020296	88.
TETON	BLACK SAND BASIN - UNNAMED SPRING	44-27.7 N 110-51.3 W		0020295	
TETON	BOYLES HILL SPRINGS	43-28.30 N 110-50.08 W 41N 117W	36	0075065	30.0
TETON	GRANITE FALLS HOT SPRINGS	43-21.90 N 110-26.57 W 39N 113W	06	0075066	45.0
TETON	GRANITE HOT SPRING	43-22.20 N 110-26.68 W 39N 113W	06	0075067	Q 41.0
TETON	GRANITE HOT SPRING	43-22.20 N 110-26.68 W 39N 113W	06	0075068	39.0
TETON	HEART LAKE GEYSER BASIN - RUSTIC GROUP - UNNAME	44-16.55 N 110-30.20 W		0020479	
TETON	HILLSIDE GROUP - ASTA SPRING (NO. 3)	44-28.20 N 110-51.52 W		0020263	
TETON	HILLSIDE GROUP - ASTA SPRING (NO. 3)	44-28.20 N 110-51.52 W		0020262	
TETON	HILLSIDE GROUP - UNNAMED SPRING	44-28.20 N 110-51.52 W		0020265	84.
TETON	HILLSIDE GROUP - UNNAMED SPRING	44-28.20 N 110-51.52 W		0020266	65.
TETON	HUCKLEBERRY HOT SPRINGS	44-06.88 N 110-41.18 W 48N 115W	20	0075072	Q 71.0
TETON	HUCKLEBERRY HOT SPRINGS	44-06.88 N 110-41.18 W 48N 115W	20	0075069	Q 45.0
TETON	HUCKLEBERRY HOT SPRINGS	44-06.88 N 110-41.18 W 48N 115W	20	0075071	Q 61.0
TETON	HUCKLEBERRY HOT SPRINGS	44-06.88 N 110-41.18 W 48N 115W	20	0075070	Q 61.0
TETON	JACKSON LAKE HOT SPRINGS	43-57.50 N 110-41.75 W		0075073	Q 72.0
TETON	KELLY WARM SPRING	43-38.37 N 110-36.92 W 42N 115W	02	0075074	27.0
TETON	LOWER GEYSER BASIN - IMPERIAL GEYSER	44-31.47 N 110-52.32 W		0020360	87.
TETON	LOWER GEYSER BASIN - BATH SPRING	44-32.2 N 110-50. W		0020379	
TETON	LOWER GEYSER BASIN - BATH SPRING	44-33.2 N 110-50. W		0020378	
TETON	LOWER GEYSER BASIN - FIREHOLE LAKE	44-32.30 N 110-47.02 W		0020367	
TETON	LOWER GEYSER BASIN - FIREHOLE POOL	44-32.30 N 110-46.98 W		0020369	90.5
TETON	LOWER GEYSER BASIN - FIREHOLE POOL	44-32.30 N 110-46.98 W		0020368	
TETON	LOWER GEYSER BASIN - FIREHOLE POOL	44-32.30 N 110-46.98 W		0020370	91.
TETON	LOWER GEYSER BASIN - FISSURE GROUP - EBONY SPRI	44-31.4 N 110-47.7 W		0020365	
TETON	LOWER GEYSER BASIN - FOUNTAIN GROUP - FOUNTAIN	44-32.6 N 110-48.4 W		0020364	
TETON	LOWER GEYSER BASIN - GREAT FOUNTAIN GROUP - DIA	44-31.6 N 110-47.5 W		0020363	84.0
TETON	LOWER GEYSER BASIN - GREAT FOUNTAIN GROUP - DIA	44-31.6 N 110-47.5 W		0020362	
TETON	LOWER GEYSER BASIN - IMPERIAL GEYSER	44-31.47 N 110-52.32 W		0020358	
TETON	LOWER GEYSER BASIN - IMPERIAL GEYSER	44-31.47 N 110-52.32 W		0020359	89.
TETON	LOWER GEYSER BASIN - KALEIDOSCOPE GROUP - UNNAM	44-31.5 N 110-48.5 W		0020366	
TETON	LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNN	44-34.01 N 110-48.23 W		0020383	
TETON	LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNN	44-34.00 N 110-48.23 W		0020382	29.5
TETON	LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNN	44-34.00 N 110-48.22 W		0020386	75.
TETON	LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNN	44-34.00 N 110-48.25 W		0020385	75.
TETON	LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNN	44-34.00 N 110-48.23 W		0020384	29.
TETON	LOWER GEYSER BASIN - MOUND SPRING	44-33.52 N 110-51.42 W		0020400	94.
TETON	LOWER GEYSER BASIN - QUEEN'S LAUNDRY	44-33.47 N 110-52.10 W		0020392	
TETON	LOWER GEYSER BASIN - RIVER GROUP - UNNAMED SPRI	44-33. N 110-50. W		0020381	63.
TETON	LOWER GEYSER BASIN - RIVER GROUP - UNNAMED SPRI	44-33. N 110-50. W		0020380	64.
TETON	LOWER GEYSER BASIN - RIVER GROUP - OJO CALIENTE	44-33.18 N 110-49.51 W		0020377	94.5
TETON	LOWER GEYSER BASIN - RIVER GROUP - OJO CALIENTE	44-33.18 N 110-49.51 W		0020376	
TETON	LOWER GEYSER BASIN - SENTINEL CONE	44-33.43 N 110-51.45 W		0020389	
TETON	LOWER GEYSER BASIN - SENTINEL GROUP - SENTINEL	44-33.43 N 110-51.45 W		0020391	93.
TETON	LOWER GEYSER BASIN - SENTINEL GROUP - SENTINEL	44-33.43 N 110-51.45 W		0020390	93.5
TETON	LOWER GEYSER BASIN - SENTINEL GROUP - QUEEN'S L	44-33.47 N 110-52.10 W		0020393	89.5
TETON	LOWER GEYSER BASIN - SENTINEL GROUP - UNNAMED S	44-33.45 N 110-52.10 W		0020395	69.5
TETON	LOWER GEYSER BASIN - SENTINEL GROUP - QUEEN'S L	44-33.47 N 110-52.10 W		0020394	86.
TETON	LOWER GEYSER BASIN - SENTINEL GROUP - MOUND SPR	44-33.52 N 110-51.42 W		0020399	
TETON	LOWER GEYSER BASIN - SENTINEL GROUP - UNNAMED S	44-34.02 N 110-51.52 W		0020398	92.
TETON	LOWER GEYSER BASIN - SENTINEL GROUP - FLAT CONE	44-34.05 N 110-51.48 W		0020397	

TETON	LOWER GEYSER BASIN - SENTINEL GROUP - ROSETTE G	44-34.08 N 110-51.53 W			0020396	
TETON	LOWER GEYSER BASIN - SURPRISE POOL	44-32.00 N 110-47.57 W			0020387	85.
TETON	LOWER GEYSER BASIN - UNNAMED MUD POT	44-32. N 110-53. W			0020361	61.
TETON	LOWER GEYSER BASIN - UNNAMED SPRING				0020388	90.
TETON	LOWER GEYSER BASIN - UNNAMED SPRING	44-32.2 N 110-47.30 W			0020375	75.
TETON	LOWER GEYSER BASIN - UNNAMED SPRING	44-31.58 N 110-47.48 W			0020374	88.5
TETON	LOWER GEYSER BASIN - UNNAMED SPRING	44-32.29 N 110-46.57 W			0020371	91.
TETON	LOWER GEYSER BASIN - UNNAMED SPRING	44-32. N 110-47. W			0020373	93.
TETON	LOWER GEYSER BASIN - UNNAMED SPRING	44-32. N 110-47. W			0020372	92.
TETON	LOWER GEYSER BASIN - UNNAMED STEAM VENT	44-31. N 110-52. W			0020357	
TETON	MIDWAY GEYSER BASIN - EXCELSIOR GEYSER	44-31.23 N 110-50.08 W			0020343	91.
TETON	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	44-32.33 N 110-50.53 W			0020356	93.
TETON	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	44-32.18 N 110-51.25 W			0020352	74.
TETON	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	44-32.33 N 110-50.53 W			0020355	94.5
TETON	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	44-32.15 N 110-51.10 W			0020354	82.0
TETON	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	44-32.18 N 110-51.27 W			0020353	93.
TETON	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	44-32.18 N 110-51.25 W			0020351	92.
TETON	MIDWAY GEYSER BASIN - FLOOD GEYSER	44-31. N 110-50. W			0020342	94.
TETON	MIDWAY GEYSER BASIN - FLOOD GEYSER	44-31. N 110-50. W			0020341	R 92.5
TETON	MIDWAY GEYSER BASIN - INDIGO SPRING	44-31.2 N 110-50.0 W			0020344	
TETON	MIDWAY GEYSER BASIN - PRISMATIC LAKE	44-31.20 N 110-50.13 W			0020345	63.3
TETON	MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNA	44-30.58 N 110-49.18 W			0020347	94.
TETON	MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNA	44-30.50 N 110-48.42 W			0020348	84.
TETON	MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNA	44-30.49 N 110-48.42 W			0020350	90.
TETON	MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNA	44-30.50 N 110-48.42 W			0020349	82.
TETON	MIDWAY GEYSER BASIN - UNNAMED CONE	44-30.57 N 110-49.50 W			0020346	92.6
TETON	MIDWAY GEYSER BASIN - UNNAMED SPRING	44-31. N 110-50. W			0020339	
TETON	NORTH BUFFALO FORK SPRINGS - GROUP 1	43-54.40 N 110-11.70 W	45N 111W 32		0075075	35.5
TETON	NORTH BUFFALO FORK SPRINGS - GROUP 2	43-54.40 N 110-11.70 W	45N 111W 32		0075076	45.0
TETON	ORANGE GROUP - UNNAMED SPRING	44-27.77 N 110-50.75 W			0020287	71.
TETON	PIPELINE CREEK SPRING	44-27.68 N 110-50.00 W			0020307	
TETON	POTTS HOT SPRING BASIN - UNNAMED GEYSER	44-26.4 N 110-34.5 W			0020486	95.
TETON	POTTS HOT SPRING BASIN - UNNAMED SPRING	44-26.4 N 110-34.5 W			0020487	94.
TETON	SHOSHONE GEYSER BASIN - BLUE GLASS SPRING	44-21.1 N 110-48.0 W			0020474	
TETON	SHOSHONE GEYSER BASIN - MINUTE MAN GEYSER	44-21.18 N 110-47.54 W			0020478	
TETON	SHOSHONE GEYSER BASIN - TAURUS GEYSER	44-21.12 N 110-48.03 W			0020475	
TETON	SHOSHONE GEYSER BASIN - UNION GEYSER	44-20.48 N 110-47.55 W			0020477	
TETON	SHOSHONE GEYSER BASIN - UNNAMED SPRING	44-21. N 110-48. W			0020476	
TETON	TERRACE SPRING	44-39.00 N 110-50.45 W			0020402	60.
TETON	TERRACE SPRING	44-39.00 N 110-50.45 W			0020401	61.8
TETON	TETON VALLEY WARM SPRINGS	43-37.43 N 110-36.37 W	42N 115W 11		0075077	18.0
TETON	UNNAMED SPRING	44-31. N 110-50. W			0020340	94.
TETON	UPPER GEYSERS BASIN - UNNAMED SPRING	44-27.43 N 110-50.00 W			0020254	68.
TETON	UPPER GEYSERS BASIN - UNNAMED SPRING	44-27.53 N 110-49.45 W			0020304	
TETON	UPPER GEYSER BASIN - ARTEMESIA GEYSER	44-27.43 N 110-50.00 W			0020257	87.
TETON	UPPER GEYSER BASIN - ARTEMISIA GEYSER	44-27.43 N 110-50.00 W			0020256	
TETON	UPPER GEYSER BASIN - ARTEMISIA GEYSER	44-27.43 N 110-50.00 W			0020255	
TETON	UPPER GEYSER BASIN - BEEHIVE GEYSER				0020325	92.5
TETON	UPPER GEYSER BASIN - BENCH SPRING				0020320	83.7
TETON	UPPER GEYSER BASIN - BLACK SAND POOL	44-27.73 N 110-51.35 W			0020293	92.7
TETON	UPPER GEYSER BASIN - BOTTOMLESS PIT	44-27.43 N 110-50.00 W			0020267	
TETON	UPPER GEYSER BASIN - CALTHOS SPRING				0020338	94.5
TETON	UPPER GEYSER BASIN - CASTLE GEYSER	44-27.5 N 110-50.6 W			0020286	
TETON	UPPER GEYSER BASIN - CHINAMAN SPRING	44-27.43 N 110-50.00 W			0020268	93.5
TETON	UPPER GEYSER BASIN - CHINAMAN SPRING	44-27.43 N 110-50.00 W			0020269	93.5

TETON	UPPER GEYSER BASIN - CLIFF GEYSER		0020337	89.6
TETON	UPPER GEYSER BASIN - DAISY GEYSER	44-28.50 N 110-50.00 W	0020277	89.
TETON	UPPER GEYSER BASIN - DAISY SPRING	44-28.50 N 110-50.00 W	0020276	88.6
TETON	UPPER GEYSER BASIN - EAR SPRING	44-27.4 N 110-50.0 W	0020251	93.
TETON	UPPER GEYSER BASIN - ECONOMIC GEYSER	44-28.5 N 110-50.0 W	0020290	83.7
TETON	UPPER GEYSER BASIN - ECONOMIC GEYSER	44-28.5 N 110-50.0 W	0020291	63.
TETON	UPPER GEYSER BASIN - EMERALD POOL	44-27.28 N 110-51.13 W	0020297	70.
TETON	UPPER GEYSER BASIN - GIANT GEYSER		0020324	94.3
TETON	UPPER GEYSER BASIN - GIANTESS GEYSER	44-27.7 N 110-49.5 W	0020249	94.1
TETON	UPPER GEYSER BASIN - GRAND GEYSER		0020332	79.
TETON	UPPER GEYSER BASIN - HILLSIDE NO. 1	44-28.20 N 110-51.52 W	0020264	
TETON	UPPER GEYSER BASIN - IRON SPRING	44-28.50 N 110-50.00 W	0020280	90.8
TETON	UPPER GEYSER BASIN - JEWEL GEYSER	44-28.5 N 110-50.0 W	0020284	93.7
TETON	UPPER GEYSER BASIN - JEWEL GEYSER	44-28.5 N 110-50.0 W	0020285	88.
TETON	UPPER GEYSER BASIN - LIONESSE GEYSER		0020328	94.
TETON	UPPER GEYSER BASIN - MORNING GLORY POOL	44-28.05 N 110-50.32 W	0020298	77.
TETON	UPPER GEYSER BASIN - OBLONG GEYSER		0020335	93.6
TETON	UPPER GEYSER BASIN - OLD FAITHFUL GEYSER	44-27.63 N 110-49.38 W	0020281	
TETON	UPPER GEYSER BASIN - PINE SPRINGS GROUP - UNNAM	44-27.98 N 110-50.42 W	0020319	83.
TETON	UPPER GEYSER BASIN - PINE SPRINGS GROUP - UNNAM	44-28.42 N 110-50.45 W	0020318	83.
TETON	UPPER GEYSER BASIN - PUNCH BOWL SPRING	44-28.25 N 110-51.95 W	0020274	83.
TETON	UPPER GEYSER BASIN - PUNCHBOWL SPRING	44-28.25 N 110-51.95 W	0020273	92.8
TETON	UPPER GEYSER BASIN - RIVERSIDE GEYSER		0020323	93.5
TETON	UPPER GEYSER BASIN - SAPPHIRE SPRING	44-28.48 N 110-51.15 W	0020258	94.5
TETON	UPPER GEYSER BASIN - SANMILL GEYSER		0020330	89.6
TETON	UPPER GEYSER BASIN - SENTINEL SPRING		0020334	93.5
TETON	UPPER GEYSER BASIN - SOLITARY SPRING		0020321	92.5
TETON	UPPER GEYSER BASIN - SPASMODIC GEYSER		0020329	93.5
TETON	UPPER GEYSER BASIN - SPLENDID GEYSER		0020336	93.5
TETON	UPPER GEYSER BASIN - SPONGE GEYSER		0020327	93.5
TETON	UPPER GEYSER BASIN - SPOUTER SPRING	44-27.7 N 110-51.3 W	0020294	92.5
TETON	UPPER GEYSER BASIN - SULFIDE SPRING	44-28.50 N 110-50.00 W	0020283	77.
TETON	UPPER GEYSER BASIN - TEAKETTLE SPRING	44-27.43 N 110-50.00 W	0020271	
TETON	UPPER GEYSER BASIN - TEAKETTLE SPRING	44-27.43 N 110-50.00 W	0020272	92.
TETON	UPPER GEYSER BASIN - THREE SISTERS SPRING	44-28.5 N 110-50.0 W	0020278	90.5
TETON	UPPER GEYSER BASIN - THREE SISTERS SPRING	44-28.5 N 110-50.0 W	0020279	
TETON	UPPER GEYSER BASIN - TOPAZ SPRING	44-27.43 N 110-50.00 W	0020270	
TETON	UPPER GEYSER BASIN - TORTOISE SHELL SPRING		0020322	94.5
TETON	UPPER GEYSER BASIN - UNNAMED DRILL HOLE	44-27.03 N 110-50.33 W	0020282	
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.43 N 110-50.00 W	0020300	55.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.43 N 110-50.00 W	0020299	63.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.35 N 110-49.37 W	0020305	81.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.58 N 110-49.07 W	0020303	90.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-28.20 N 110-50.45 W	0020301	81.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-28.0 N 110-50.0 W	0020312	
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.35 N 110-49.37 W	0020306	63.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-28.0 N 110-50.0 W	0020310	71.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING		0020333	92.5
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.50 N 110-50.00 W	0020288	87.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-28.50 N 110-50.00 W	0020292	
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-28.00 N 110-50.00 W	0020309	80.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-28.20 N 110-50.45 W	0020302	
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.77 N 110-49.20 W	0020313	91.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-28.0 N 110-50.0 W	0020311	75.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-28.50 N 110-50.00 W	0020289	91.

TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-28.25 N 110-51.95 W	0020275	84.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.53 N 110-49.46 W	0020317	64.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.35 N 110-49.37 W	0020316	89.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.67 N 110-49.63 W	0020315	75.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.53 N 110-49.45 W	0020314	82.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-28.4 N 110-51.53 W	0020260	80.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.43 N 110-50.00 W	0020253	84.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.4 N 110-50.0 W	0020252	89.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-27.7 N 110-49.5 W	0020250	82.5
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	44-28.44 N 110-51.52 W	0020261	76.
TETON	UPPER GEYSER BASIN - WEST SPRING	44-28.43 N 110-51.53 W	0020259	80.
TETON	UPPER GEYSER BASIN - WITCHES CAULDRON		0020331	93.5
TETON	UPPER GEYSER BASIN - YELLOW BELL SPRING		0020326	
TETON	WEST THUMB GEYSER BASIN - ABYSS POOL	44-25. N 110-34. W	0020482	90.
TETON	WEST THUMB GEYSER BASIN - BLACK POOL	44-25. N 110-34. W	0020483	78.5
TETON	WEST THUMB GEYSER BASIN - EPHEDRA GEYSER	44-24. N 110-34. W	0020485	89.
TETON	WEST THUMB GEYSER BASIN - UNNAMED SPRING	44-24. N 110-34. W	0020484	84.1
TETON	WEST THUMB GEYSER BASIN - UNNAMED SPRING	44-25. N 110-34. W	0020481	
TETON	WEST THUMB GEYSER BASIN - UNNAMED SPRING	44-25.5 N 110-34.2 W	0020480	
TETON	YELLOWSTONE - BOILING SPRING		0075083	94.
TETON	YELLOWSTONE - EAR SPRING	44-27.4 N 110-50.0 W	0075091	95.
TETON	YELLOWSTONE - EXCELSIOR SPRING	44-31.23 N 110-50.08 W	0075089	76.
TETON	YELLOWSTONE - FIREHOLE LAKE (LOWER)	44-32.30 N 110-47.02 W	0075081	93.
TETON	YELLOWSTONE - HILLSIDE (UPPER)	44-28.2 N 110-51.5 W	0075082	84.5
TETON	YELLOWSTONE - LITTLE WHIRLIGIG GEYSER		0075092	91.
TETON	YELLOWSTONE - NEAR CLEPSEDRA GEYSER		0075086	92.
TETON	YELLOWSTONE - OJO CALIENTE SPRING (RIVER GROUP)	44-33.18 N 110-49.51 W	0075087	95.
TETON	YELLOWSTONE - RUSTIC GEYSER		0075085	91.
TETON	YELLOWSTONE - SAPPHIRE SPRING	44-28.48 N 110-51.15 W	0075090	95.
TETON	YELLOWSTONE - SNORT SPRING		0075088	93.
TETON	YELLOWSTONE - SPIKE GEYSER		0075094	93.5
TETON	YELLOWSTONE - SPRING 192		0075084	89.5
TETON	YELLOWSTONE - TERRACE	44-39.00 N 110-50.45 W	0075080	66.
TETON	YELLOWSTONE - UPPER GEYSER BASIN - UNNAMED SPRI	44-28.5 N 110-50.0 W	0020308	87.
TETON (?)	YELLOWSTONE - PERPETUAL SPOUTER		0075078	89.

APPENDIX B

Index to GEOTHERM sample file for the state of Wyoming sorted by county, township (TNS), range (RNG), and section (Sect.) Also given are the name of source, GEOTHERM record identifier (I.D.), and temperature (Temp. °C). See Table 1 for explanation of alphabetic qualifiers preceding temperature.

<u>County</u>	<u>TNS</u>	<u>RNG</u>	<u>Sect.</u>	<u>Name of Source</u>	<u>I.D.</u>	<u>Temp.</u>
BIG HORN	54N	094W	35	SHEEP MOUNTAIN SPRINGS	0075001	21.
BIG HORN	55N	094W	17	LITTLE SHEEP MOUNTAIN SPRING	0075000	20.
CARBON	17N	084W	13	SARATOGA HOT SPRINGS, HOBO POOL	0075002	Q 48.0
CARBON	17N	084W	13	SARATOGA HOT SPRINGS, HOBO POOL	0075006	Q 48.
CARBON	17N	084W	13	SARATOGA HOT SPRINGS, HOBO POOL	0075005	49.
CARBON	17N	084W	13	SARATOGA HOT SPRINGS, HOBO POOL	0075004	Q 48.
CARBON	17N	084W	13	SARATOGA HOT SPRINGS, HOBO POOL	0075003	Q 48.
CONVERSE	31N	071W	08	DOUGLAS WARM SPRING	0075007	30.0
FREMONT	01S	001W	02	FORT WASHAKIE HOT SPRINGS	0075010	46.5
FREMONT	01S	001W	02	FORT WASHAKIE HOT SPRINGS	0075009	44.0
FREMONT	01S	001W	02	FORT WASHAKIE HOT SPRINGS	0075011	44.5
FREMONT	29N	095W	15	SWEETWATER STATION SPRING NO. 1	0075017	30.0
FREMONT	29N	095W	15	SWEETWATER STATION SPRING NO. 2	0075019	Q 31.5
FREMONT	29N	095W	15	SWEETWATER STATION SPRING NO. 2	0075018	31.5
FREMONT	33N	094W	26	CONANT CREEK SPRINGS	0075008	16.0
FREMONT	41N	106W	29	JAKEYS FORK SPRING	0075012	20.0
FREMONT	41N	107W	14	LITTLE WARM SPRING	0075014	Q 25.
FREMONT	41N	107W	14	LITTLE WARM SPRING	0075013	25.0
FREMONT	42N	107W	32	WARM SPRING CREEK SPRINGS	0075016	Q 29.
FREMONT	42N	107W	32	WARM SPRING CREEK SPRINGS	0075015	29.0
HOT SPRINGS	42N	095W	25	WIND RIVER CANYON SPRING	0075037	Q 22.
HOT SPRINGS	42N	095W	25	WIND RIVER CANYON SPRING	0075036	22.0
HOT SPRINGS	43N	094W	25	MCCARTHY WELL	0075024	54.0
HOT SPRINGS	43N	094W	30	WHITE SULPHUR SPRING	0075027	Q 53.
HOT SPRINGS	43N	094W	30	WHITE SULPHUR SPRING	0075026	53.0
HOT SPRINGS	43N	094W	31	BIG SPRING	0075035	Q 56.
HOT SPRINGS	43N	094W	31	BIG SPRING	0075034	Q 56.
HOT SPRINGS	43N	094W	31	BIG SPRING	0075033	Q 56.
HOT SPRINGS	43N	094W	31	BIG SPRING	0075032	Q 56.
HOT SPRINGS	43N	094W	31	BIG SPRING	0075031	Q 56.
HOT SPRINGS	43N	094W	31	BIG SPRING	0075030	56.0
HOT SPRINGS	43N	095W	24	MAYTAG WELL	0075021	54.0
HOT SPRINGS	43N	095W	24	VAN NORMAN WELL	0075020	51.0
HOT SPRINGS	43N	095W	25	SACAJAWEA WELL	0075023	Q 52.
HOT SPRINGS	43N	095W	25	SACAJAWEA WELL	0075022	52.0
HOT SPRINGS	43N	095W	25	BATHTUB SPRING	0075025	53.0
HOT SPRINGS	43N	095W	36	PILING SPRING	0075028	35.0
HOT SPRINGS	43N	095W	36	BLACK SULPHUR SPRING	0075029	Q 55.
LINCOLN				AUBURN AREA	0000779	16.0
LINCOLN	33N	119W	23	AUBURN HOT SPRINGS	0075041	Q 62.0
LINCOLN	33N	119W	23	AUBURN HOT SPRINGS	0075040	Q 16.0
LINCOLN	33N	119W	23	AUBURN HOT SPRINGS	0075039	Q 62.0
LINCOLN	33N	119W	23	AUBURN HOT SPRINGS	0075038	Q 62.0
LINCOLN	33N	119W	26	JOHNSON SPRINGS	0075042	46.0
NATRONA	30N	083W	25	ALCOVA HOT SPRINGS	0075043	54.0
NATRONA	30N	083W	25	ALCOVA HOT SPRINGS	0075044	59.0

NATRONA 32N 086W 35	HORSE CREEK SPRINGS	0075045	23.5
PARK	YELLOWSTONE - CALCITE SPRINGS	0020504	
PARK	YELLOWSTONE - CALCITE SPRINGS	0020502	
PARK	YELLOWSTONE - NEW HIGHLAND	0075079	73.5
PARK	MAMMOTH HOT SPRINGS - HYMEN TERRACE	0020465	70.5
PARK	NORRIS GEYSER BASIN - PORCELAIN BASIN NO. 70	0020427	
PARK	NORRIS GEYSER BASIN - SPRING NO. 61	0020417	
PARK	NORRIS GEYSER BASIN - SPRING NO. 23	0020413	
PARK	NORRIS GEYSER BASIN - SPRING NO. 21	0020412	
PARK	NORRIS GEYSER BASIN - SPRING NO. 19	0020411	
PARK	NORRIS GEYSER BASIN - SPRING NO. 7	0020407	
PARK	NORRIS GEYSER BASIN - SPRING NO. 6	0020406	
PARK	NORRIS GEYSER BASIN - SPRING NO. 4	0020404	
PARK	YELLOWSTONE - DEVIL'S INKPOT	0020493	81.5
PARK	YELLOWSTONE - PORK CHOP SPRING	0075093	71.
PARK	YELLOWSTONE - UNNAMED SPRING	0020508	
PARK	YELLOWSTONE - CHOCOLATE POTS	0020507	52.
PARK	YELLOWSTONE - CHOCOLATE POTS	0020506	51.
PARK	YELLOWSTONE - CALCITE NO. 2	0020505	89.4
PARK	YELLOWSTONE - CALCITE NO. 1	0020503	92.5
PARK	YELLOWSTONE - SULFUR POOL	0020501	
PARK	YELLOWSTONE - MUD VOLCANO	0020500	85.5
PARK	YELLOWSTONE - UNNAMED SPRING	0020499	86.1
PARK	YELLOWSTONE - UNNAMED SPRING	0020498	88.8
PARK	YELLOWSTONE - UNNAMED SPRING	0020497	88.
PARK	YELLOWSTONE - UNNAMED SPRING	0020496	
PARK	YELLOWSTONE - UNNAMED SPRING	0020495	
PARK	YELLOWSTONE - DEVIL'S INKPOT	0020494	
PARK	YELLOWSTONE - DEVIL'S INKPOT	0020492	
PARK	YELLOWSTONE - UNNAMED SPRING	0020491	87.
PARK	YELLOWSTONE - UNNAMED SPRING	0020490	70.6
PARK	YELLOWSTONE - UNNAMED SPRING	0020489	85.
PARK	YELLOWSTONE - UNNAMED SPRING	0020488	79.8
PARK	MAMMOTH HOT SPRINGS - MINERVA SPRINGS	0020473	75.
PARK	MAMMOTH HOT SPRINGS - NEW HIGHLAND TERRACE	0020472	74.
PARK	MAMMOTH HOT SPRINGS - CUPID SPRING	0020471	71.
PARK	MAMMOTH HOT SPRINGS - CAVERN TERRACE	0020470	66.4
PARK	MAMMOTH HOT SPRINGS - PALETTE TERRACE	0020469	
PARK	MAMMOTH HOT SPRINGS - UNNAMED SPRING	0020468	
PARK	MAMMOTH HOT SPRINGS - JUPITER TERRACE	0020467	71.
PARK	MAMMOTH HOT SPRINGS - MAIN TERRACE	0020466	73.
PARK	MAMMOTH HOT SPRINGS - ANGEL TERRACE	0020464	
PARK	MAMMOTH HOT SPRINGS - UNNAMED SPRING	0020463	
PARK	MAMMOTH HOT SPRINGS - UNNAMED SPRING	0020462	
PARK	MAMMOTH HOT SPRINGS - UNNAMED SPRING	0020461	
PARK	MAMMOTH HOT SPRINGS - CLEOPATRA SPRING	0020460	
PARK	MAMMOTH HOT SPRINGS - CLEOPATRA SPRING	0020459	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	0020458	80.
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	0020457	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	0020456	
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	0020455	85.
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	0020454	73.
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	0020453	90.
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	0020452	89.
PARK	NORRIS GEYSER BASIN - UNNAMED SPRING	0020451	90.

PARK			NORRIS GEYSER BASIN - UNNAMED SPRING	0020450	89.
PARK			NORRIS GEYSER BASIN - BLACK HERON CAULDRON	0020449	93.
PARK			NORRIS GEYSER BASIN - UNNAMED SPRING	0020448	91.
PARK			NORRIS GEYSER BASIN - UNNAMED SPRING	0020447	70.
PARK			NORRIS GEYSER BASIN - BATHTUB SPRING	0020446	93.
PARK			NORRIS GEYSER BASIN - "BATH-TUB" SPRING	0020445	
PARK			NORRIS GEYSER BASIN - "BATH-TUB" SPRING	0020444	
PARK			NORRIS GEYSER BASIN - GREEN DRAGON SPRING	0020442	84.
PARK			NORRIS GEYSER BASIN - PEARL GEYSER	0020441	85.
PARK			NORRIS GEYSER BASIN - EMERALD SPRING	0020440	88.
PARK			NORRIS GEYSER BASIN - UNNAMED SPRING	0020439	90.6
PARK			NORRIS GEYSER BASIN - UNNAMED SPRING	0020438	92.
PARK			NORRIS GEYSER BASIN - UNNAMED STEAM VENT	0020437	
PARK			NORRIS GEYSER BASIN - SPRING NO. 25	0020436	
PARK			NORRIS GEYSER BASIN - UNNAMED SPRING	0020435	92.
PARK			NORRIS GEYSER BASIN - CONGRESS POOL	0020434	
PARK			NORRIS GEYSER BASIN - UPPER GREEN DRAGON SPRING	0020443	94.
PARK			NORRIS GEYSER BASIN - UNNAMED SPRING	0020433	79.
PARK			NORRIS GEYSER BASIN - VERMILLION POOL	0020432	94.
PARK			NORRIS GEYSER BASIN - CINDER POOL (NO. 17)	0020431	
PARK			NORRIS GEYSER BASIN - GABLE SPRING (NO. 32)	0020430	
PARK			NORRIS GEYSER BASIN - UNNAMED SPRING	0020429	
PARK			NORRIS GEYSER BASIN - PORCELAIN BASIN NO. 24	0020428	
PARK			NORRIS GEYSER BASIN - BLACK GROWLER	0020426	
PARK			NORRIS GEYSER BASIN - BLACK GROWLER	0020425	
PARK			NORRIS GEYSER BASIN - SPRING NO. 20	0020424	
PARK			NORRIS GEYSER BASIN - GEYSER NO. 27	0020423	
PARK			NORRIS GEYSER BASIN - ECHINUS GEYSER	0020422	
PARK			NORRIS GEYSER BASIN - CORAL SPRING	0020421	
PARK			NORRIS GEYSER BASIN - IRIS SPRING (NO. 71)	0020420	
PARK			NORRIS GEYSER BASIN - SPRING NO. 68	0020419	
PARK			NORRIS GEYSER BASIN - SPRING NO. 62	0020418	
PARK			YELLOWSTONE - NORRIS GEYSER BASIN - SPRING NO.	0020416	
PARK			NORRIS GEYSER BASIN - SPRING NO. 33	0020415	
PARK			NORRIS GEYSER BASIN - SPRING NO. 30	0020414	
PARK			NORRIS GEYSER BASIN - SPRING NO. 18	0020410	
PARK			NORRIS GEYSER BASIN - SPRING NO. 15	0020409	
PARK			NORRIS GEYSER BASIN - SPRING NO. 9	0020408	
PARK			NORRIS GEYSER BASIN - SPRING NO. 5	0020405	
PARK			NORRIS GEYSER BASIN - SPRING NO. 1	0020403	
PARK	52N 102W	03	DE MARIS HOT SPRINGS	0075047	36.0
PARK	52N 102W	03	DE MARIS HOT SPRINGS	0075054	Q 27.5
PARK	52N 102W	03	DE MARIS HOT SPRINGS	0075050	Q 24.
PARK	52N 102W	03	DE MARIS HOT SPRINGS	0075048	Q 37.0
PARK	52N 102W	03	DE MARIS HOT SPRINGS	0075049	27.0
PARK	52N 102W	03	DE MARIS HOT SPRINGS	0075053	Q 27.0
PARK	52N 102W	03	DE MARIS HOT SPRINGS	0075052	Q 27.0
PARK	52N 102W	03	DE MARIS HOT SPRINGS	0075051	Q 28.0
PARK	52N 103W	12	BUFFALO BILL RESERVOIR SPRINGS	0075046	
PLATTE	26N 066W	04	IMMIGRANTS WASHTUB	0075056	Q 21.
PLATTE	26N 066W	04	IMMIGRANTS WASHTUB	0075055	Q 21.0
SUBLETTE	28N 115W	20	BIG FALL CREEK SPRINGS	0075062	16.0
SUBLETTE	32N 107W	16	STEELE HOT SPRINGS - SPRING 1	0075059	35.5
SUBLETTE	32N 107W	16	STEELE HOT SPRINGS - SPRING 1	0075060	Q 35.5
SUBLETTE	32N 107W	16	STEELE HOT SPRINGS - SPRING 2	0075061	39.0

SUBLETTE 38N 110W	02	KENDALL WARM SPRINGS	0075057	29.5
SUBLETTE 38N 110W	02	KENDALL WARM SPRINGS	0075058	Q 29.5
TETON		MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	0020351	92.
TETON		MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	0020353	93.
TETON		MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	0020354	82.0
TETON		MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	0020355	94.5
TETON		LOWER GEYSER BASIN - UNNAMED STEAM VENT	0020357	
TETON		LOWER GEYSER BASIN - IMPERIAL GEYSER	0020359	89.
TETON		LOWER GEYSER BASIN - IMPERIAL GEYSER	0020360	87.
TETON		LOWER GEYSER BASIN - UNNAMED MUD POT	0020361	61.
TETON		LOWER GEYSER BASIN - UNNAMED SPRING	0020374	88.5
TETON		LOWER GEYSER BASIN - UNNAMED SPRING	0020375	75.
TETON		YELLOWSTONE - TERRACE	0075080	66.
TETON		SHOSHONE GEYSER BASIN - UNION GEYSER	0020477	
TETON		UPPER GEYSER BASIN - UNNAMED SPRING	0020314	82.
TETON		UPPER GEYSER BASIN - UNNAMED SPRING	0020317	64.
TETON		UPPER GEYSER BASIN - UNNAMED SPRING	0020316	89.
TETON		UPPER GEYSER BASIN - UNNAMED SPRING	0020315	75.
TETON		UPPER GEYSER BASIN - EAR SPRING	0020251	93.
TETON		UPPER GEYSER BASIN - GIANTESS GEYSER	0020249	94.1
TETON		UPPER GEYSER BASIN - THREE SISTERS SPRING	0020278	90.5
TETON		UPPER GEYSER BASIN - PUNCHBOWL SPRING	0020273	92.8
TETON		UPPER GEYSER BASIN - TOPAZ SPRING	0020270	
TETON		UPPER GEYSER BASIN - CHINAMAN SPRING	0020268	93.5
TETON		UPPER GEYSER BASIN - BOTTOMLESS PIT	0020267	
TETON		HILLSIDE GROUP - ASTA SPRING (NO. 3)	0020262	
TETON		UPPER GEYSER BASIN - ARTEMISIA GEYSER	0020256	
TETON		UPPER GEYSER BASIN - ARTEMISIA GEYSER	0020255	
TETON		YELLOWSTONE - EXCELSIOR SPRING	0075089	76.
TETON		TERRACE SPRING	0020401	61.8
TETON		LOWER GEYSER BASIN - IMPERIAL GEYSER	0020358	
TETON		MIDWAY GEYSER BASIN - INDIGO SPRING	0020344	
TETON		MIDWAY GEYSER BASIN - EXCELSIOR GEYSER	0020343	91.
TETON		UPPER GEYSER BASIN - YELLOW BELL SPRING	0020326	
TETON		UPPER GEYSER BASIN - SOLITARY SPRING	0020321	92.5
TETON		UPPER GEYSER BASIN - CASTLE GEYSER	0020286	
TETON		YELLOWSTONE - SNORT SPRING	0075088	93.
TETON		YELLOWSTONE - OJO CALIENTE SPRING (RIVER GROUP)	0075087	95.
TETON		YELLOWSTONE - NEAR CLEPSEDRA GEYSER	0075086	92.
TETON		YELLOWSTONE - RUSTIC GEYSER	0075085	91.
TETON		YELLOWSTONE - SPRING 192	0075084	89.5
TETON		YELLOWSTONE - BOILING SPRING	0075083	94.
TETON		YELLOWSTONE - HILLSIDE (UPPER)	0075082	84.5
TETON		YELLOWSTONE - FIREHOLE LAKE (LOWER)	0075081	93.
TETON		LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNN	0020383	
TETON		LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNN	0020382	29.5
TETON		LOWER GEYSER BASIN - RIVER GROUP - UNNAMED SPRI	0020381	63.
TETON		LOWER GEYSER BASIN - RIVER GROUP - UNNAMED SPRI	0020380	64.
TETON		LOWER GEYSER BASIN - BATH SPRING	0020379	
TETON		LOWER GEYSER BASIN - BATH SPRING	0020378	
TETON		LOWER GEYSER BASIN - RIVER GROUP - OJO CALIENTE	0020377	94.5
TETON		LOWER GEYSER BASIN - RIVER GROUP - OJO CALIENTE	0020376	
TETON		LOWER GEYSER BASIN - UNNAMED SPRING	0020373	93.
TETON		LOWER GEYSER BASIN - UNNAMED SPRING	0020372	92.
TETON		LOWER GEYSER BASIN - UNNAMED SPRING	0020371	91.

TETON	LOWER GEYSER BASIN - FIREHOLE POOL	0020370	91.
TETON	LOWER GEYSER BASIN - FIREHOLE POOL	0020369	90.5
TETON	LOWER GEYSER BASIN - FIREHOLE POOL	0020368	
TETON	LOWER GEYSER BASIN - FIREHOLE LAKE	0020367	
TETON	LOWER GEYSER BASIN - KALEIDOSCOPE GROUP - UNNAM	0020366	
TETON	LOWER GEYSER BASIN - FISSURE GROUP - EBONY SPRI	0020365	
TETON	LOWER GEYSER BASIN - FOUNTAIN GROUP - FOUNTAIN	0020364	
TETON	LOWER GEYSER BASIN - GREAT FOUNTAIN GROUP - DIA	0020363	84.0
TETON	LOWER GEYSER BASIN - GREAT FOUNTAIN GROUP - DIA	0020362	
TETON	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	0020356	93.
TETON	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	0020352	74.
TETON	MIDWAY GEYSER BASIN - UNNAMED CONE	0020346	92.6
TETON	MIDWAY GEYSER BASIN - PRISMATIC LAKE	0020345	63.3
TETON	MIDWAY GEYSER BASIN - FLOOD GEYSER	0020341	R 92.5
TETON	MIDWAY GEYSER BASIN - UNNAMED SPRING	0020339	
TETON	UPPER GEYSER BASIN - CALTHOS SPRING	0020338	94.5
TETON	UPPER GEYSER BASIN - CLIFF GEYSER	0020337	89.6
TETON	UPPER GEYSER BASIN - SPLENDID GEYSER	0020336	93.5
TETON	UPPER GEYSER BASIN - OBLONG GEYSER	0020335	93.6
TETON	UPPER GEYSER BASIN - SENTINEL SPRING	0020334	93.5
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020333	92.5
TETON	UPPER GEYSER BASIN - GRAND GEYSER	0020332	79.
TETON	UPPER GEYSER BASIN - WITCHES CAULDRON	0020331	93.5
TETON	UPPER GEYSER BASIN - SAWMILL GEYSER	0020330	89.6
TETON	UPPER GEYSER BASIN - SPASMODIC GEYSER	0020329	93.5
TETON	UPPER GEYSER BASIN - LIONESSE GEYSER	0020328	94.
TETON	UPPER GEYSER BASIN - SPONGE GEYSER	0020327	93.5
TETON	UPPER GEYSER BASIN - BEEHIVE GEYSER	0020325	92.5
TETON	UPPER GEYSER BASIN - GIANT GEYSER	0020324	94.3
TETON	UPPER GEYSER BASIN - RIVERSIDE GEYSER	0020323	93.5
TETON	UPPER GEYSER BASIN - TORTOISE SHELL SPRING	0020322	94.5
TETON	UPPER GEYSER BASIN - BENCH SPRING	0020320	83.7
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020312	
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020310	71.
TETON	YELLOWSTONE - UPPER GEYSER BASIN - UNNAMED SPRI	0020308	87.
TETON	PIPELINE CREEK SPRING	0020307	
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020306	63.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020305	81.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020304	
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020303	90.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020301	81.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020300	55.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020299	63.
TETON	UPPER GEYSER BASIN - MORNING GLORY POOL	0020298	77.
TETON	UPPER GEYSER BASIN - EMERALD POOL	0020297	70.
TETON	BLACK SAND BASIN - UNNAMED SPRING	0020296	88.
TETON	BLACK SAND BASIN - UNNAMED SPRING	0020295	
TETON	UPPER GEYSER BASIN - SPOUTER SPRING	0020294	92.5
TETON	UPPER GEYSER BASIN - BLACK SAND POOL	0020293	92.7
TETON	UPPER GEYSER BASIN - ECONOMIC GEYSER	0020290	83.7
TETON	UPPER GEYSER BASIN - JEWEL GEYSER	0020284	93.7
TETON	UPPER GEYSER BASIN - UNNAMED DRILL HOLE	0020282	
TETON	UPPER GEYSER BASIN - IRON SPRING	0020280	90.8
TETON	MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNA	0020350	90.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020302	

TETON	MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNA	0020347	94.
TETON	MIDWAY GEYSER BASIN - FLOOD GEYSER	0020342	94.
TETON	MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNA	0020348	84.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020309	80.
TETON	YELLOWSTONE - SPIKE GEYSER	0075094	93.5
TETON	MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNA	0020349	82.
TETON	YELLOWSTONE - LITTLE WHIRLIGIG GEYSER	0075092	91.
TETON	UPPER GEYSER BASIN - SAPPHIRE SPRING	0020258	94.5
TETON	UPPER GEYSER BASIN - OLD FAITHFUL GEYSER	0020281	
TETON	UPPER GEYSER BASIN - TEAKETTLE SPRING	0020271	
TETON	UPPER GEYSER BASIN - HILLSIDE NO. 1	0020264	
TETON	HILLSIDE GROUP - ASTA SPRING (NO. 3)	0020263	
TETON	UPPER GEYSER BASIN - PINE SPRINGS GROUP - UNNAM	0020318	83.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020311	75.
TETON	YELLOWSTONE - EAR SPRING	0075091	95.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020313	91.
TETON	YELLOWSTONE - SAPPHIRE SPRING	0075090	95.
TETON	SHOSHONE GEYSER BASIN - BLUE GLASS SPRING	0020474	
TETON	JACKSON LAKE HOT SPRINGS	0075073	Q 72.0
TETON	POTTS HOT SPRING BASIN - UNNAMED SPRING	0020487	94.
TETON	POTTS HOT SPRING BASIN - UNNAMED GEYSER	0020486	95.
TETON	WEST THUMB GEYSER BASIN - EPHEDRA GEYSER	0020485	89.
TETON	WEST THUMB GEYSER BASIN - UNNAMED SPRING	0020484	84.1
TETON	WEST THUMB GEYSER BASIN - BLACK POOL	0020483	78.5
TETON	WEST THUMB GEYSER BASIN - ABYSS POOL	0020482	90.
TETON	WEST THUMB GEYSER BASIN - UNNAMED SPRING	0020481	
TETON	WEST THUMB GEYSER BASIN - UNNAMED SPRING	0020480	
TETON	HEART LAKE GEYSER BASIN - RUSTIC GROUP - UNNAME	0020479	
TETON	SHOSHONE GEYSER BASIN - MINUTE MAN GEYSER	0020478	
TETON	SHOSHONE GEYSER BASIN - UNNAMED SPRING	0020476	
TETON	SHOSHONE GEYSER BASIN - TAURUS GEYSER	0020475	
TETON	UNNAMED SPRING	0020340	94.
TETON	UPPER GEYSER BASIN - PINE SPRINGS GROUP - UNNAM	0020319	83.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020252	89.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020250	82.5
TETON	HILLSIDE GROUP - UNNAMED SPRING	0020266	65.
TETON	HILLSIDE GROUP - UNNAMED SPRING	0020265	84.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020261	76.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020260	80.
TETON	UPPER GEYSER BASIN - WEST SPRING	0020259	80.
TETON	UPPER GEYSER BASIN - ARTEMESIA GEYSER	0020257	87.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020254	68.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020253	84.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020292	
TETON	UPPER GEYSER BASIN - ECONOMIC GEYSER	0020291	63.
TETON	TERRACE SPRING	0020402	60.
TETON	LOWER GEYSER BASIN - MOUND SPRING	0020400	94.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020289	91.
TETON	UPPER GEYSER BASIN - UNNAMED SPRING	0020288	87.
TETON	ORANGE GROUP - UNNAMED SPRING	0020287	71.
TETON	UPPER GEYSER BASIN - JEWEL GEYSER	0020285	88.
TETON	UPPER GEYSER BASIN - SULFIDE SPRING	0020283	77.
TETON	UPPER GEYSER BASIN - THREE SISTERS SPRING	0020279	
TETON	UPPER GEYSER BASIN - DAISY GEYSER	0020277	89.
TETON	UPPER GEYSER BASIN - DAISY SPRING	0020276	88.6

TETON			UPPER GEYSER BASIN - UNNAMED SPRING	0020275	84.	
TETON			UPPER GEYSER BASIN - PUNCH BOWL SPRING	0020274	83.	
TETON			UPPER GEYSER BASIN - TEAKETTLE SPRING	0020272	92.	
TETON			UPPER GEYSER BASIN - CHINAMAN SPRING	0020269	93.5	
TETON			LOWER GEYSER BASIN - SENTINEL GROUP - MOUND SPR	0020399		
TETON			LOWER GEYSER BASIN - SENTINEL GROUP - UNNAMED S	0020398	92.	
TETON			LOWER GEYSER BASIN - SENTINEL GROUP - FLAT CONE	0020397		
TETON			LOWER GEYSER BASIN - SENTINEL GROUP - ROSETTE G	0020396		
TETON			LOWER GEYSER BASIN - SENTINEL GROUP - UNNAMED S	0020395	69.5	
TETON			LOWER GEYSER BASIN - SENTINEL GROUP - QUEEN'S L	0020394	86.	
TETON			LOWER GEYSER BASIN - SENTINEL GROUP - QUEEN'S L	0020393	89.5	
TETON			LOWER GEYSER BASIN - QUEEN'S LAUNDRY	0020392		
TETON			LOWER GEYSER BASIN - SENTINEL GROUP - SENTINEL	0020391	93.	
TETON			LOWER GEYSER BASIN - SENTINEL GROUP - SENTINEL	0020390	93.5	
TETON			LOWER GEYSER BASIN - SENTINEL CONE	0020389		
TETON			LOWER GEYSER BASIN - UNNAMED SPRING	0020388	90.	
TETON			LOWER GEYSER BASIN - SURPRISE POOL	0020387	85.	
TETON			LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNN	0020386	75.	
TETON			LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNN	0020385	75.	
TETON			LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNN	0020384	29.	
TETON	39N	113W	06	GRANITE FALLS HOT SPRINGS	0075066	45.0
TETON	39N	113W	06	GRANITE HOT SPRING	0075067	Q 41.0
TETON	39N	113W	06	GRANITE HOT SPRING	0075068	39.0
TETON	39N	116W	32	ASTORIA SPRINGS	0075064	37.0
TETON	41N	116W	02	ABERCROMBIE WARM SPRINGS	0075063	27.0
TETON	41N	117W	36	BOYLES HILL SPRINGS	0075065	30.0
TETON	42N	115W	02	KELLY WARM SPRING	0075074	27.0
TETON	42N	115W	11	TETON VALLEY WARM SPRINGS	0075077	18.0
TETON	45N	111W	32	NORTH BUFFALO FORK SPRINGS - GROUP 2	0075076	45.0
TETON	45N	111W	32	NORTH BUFFALO FORK SPRINGS - GROUP 1	0075075	35.5
TETON	48N	115W	20	HUCKLEBERRY HOT SPRINGS	0075069	Q 45.0
TETON	48N	115W	20	HUCKLEBERRY HOT SPRINGS	0075071	Q 61.0
TETON	48N	115W	20	HUCKLEBERRY HOT SPRINGS	0075070	Q 61.0
TETON	48N	115W	20	HUCKLEBERRY HOT SPRINGS	0075072	Q 71.0
TETON (?)				YELLOWSTONE - PERPETUAL SPOUTER	0075078	89.

APPENDIX C

Index to GEOTHERM sample file for the state of Wyoming sorted into one-degree blocks by latitude and longitude. Records are sorted by name of source within each one-degree block. Adjacent one-degree blocks which are published as a 1:250,000 map are combined under the appropriate map name. See Table 1 for explanation of alphabetic qualifiers proceeding temperature. I.D. - GEOTHERM record identifier. Temp. - Temperature °C.

<u>Latitude</u>	<u>Longitude</u>	<u>Name of Source</u>	<u>County</u>	<u>I.D.</u>	<u>Temp.</u>
COORDINATES NOT GIVEN BUT ALL RECORDS LIKELY TO BE IN ASHTON 1:250,000					
		LOWER GEYSER BASIN - UNNAMED SPRING	TETON	0020388	90.
		UPPER GEYSER BASIN - BEEHIVE GEYSER	TETON	0020325	92.5
		UPPER GEYSER BASIN - BENCH SPRING	TETON	0020320	83.7
		UPPER GEYSER BASIN - CALTHOS SPRING	TETON	0020338	94.5
		UPPER GEYSER BASIN - CLIFF GEYSER	TETON	0020337	89.6
		UPPER GEYSER BASIN - GIANT GEYSER	TETON	0020324	94.3
		UPPER GEYSER BASIN - GRAND GEYSER	TETON	0020332	79.
		UPPER GEYSER BASIN - LIONESSE GEYSER	TETON	0020328	94.
		UPPER GEYSER BASIN - OBLONG GEYSER	TETON	0020335	93.6
		UPPER GEYSER BASIN - RIVERSIDE GEYSER	TETON	0020323	93.5
		UPPER GEYSER BASIN - SAMMILL GEYSER	TETON	0020330	89.6
		UPPER GEYSER BASIN - SENTINEL SPRING	TETON	0020334	93.5
		UPPER GEYSER BASIN - SOLITARY SPRING	TETON	0020321	92.5
		UPPER GEYSER BASIN - SPASMODIC GEYSER	TETON	0020329	93.5
		UPPER GEYSER BASIN - SPLENDID GEYSER	TETON	0020336	93.5
		UPPER GEYSER BASIN - SPONGE GEYSER	TETON	0020327	93.5
		UPPER GEYSER BASIN - TORTOISE SHELL SPRING	TETON	0020322	94.5
		UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020333	92.5
		UPPER GEYSER BASIN - WITCHES CAULDRON	TETON	0020331	93.5
		UPPER GEYSER BASIN - YELLOW BELL SPRING	TETON	0020326	
		YELLOWSTONE - BOILING SPRING	TETON	0075083	94.
		YELLOWSTONE - LITTLE WHIRLIGIG GEYSER	TETON	0075092	91.
		YELLOWSTONE - NEAR CLEPSEDRA GEYSER	TETON	0075086	92.
		YELLOWSTONE - PERPETUAL SPOUTER	TETON (?)	0075078	89.
		YELLOWSTONE - PORK CHOP SPRING	PARK	0075093	71.
		YELLOWSTONE - RUSTIC GEYSER	TETON	0075085	91.
		YELLOWSTONE - SNORT SPRING	TETON	0075088	93.
		YELLOWSTONE - SPIKE GEYSER	TETON	0075094	93.5
		YELLOWSTONE - SPRING 192	TETON	0075084	89.5
		YELLOWSTONE - UNNAMED SPRING	PARK	0020508	
RAWLINS 1:250,000					
41-27.00 N	106-48.40 W	SARATOGA HOT SPRINGS, HOBO POOL	CARBON	0075002 Q	48.0
41-27.00 N	106-48.40 W	SARATOGA HOT SPRINGS, HOBO POOL	CARBON	0075006 Q	48.
41-27.00 N	106-48.40 W	SARATOGA HOT SPRINGS, HOBO POOL	CARBON	0075003 Q	48.
41-27.00 N	106-48.40 W	SARATOGA HOT SPRINGS, HOBO POOL	CARBON	0075004 Q	48.
41-27.00 N	106-48.40 W	SARATOGA HOT SPRINGS, HOBO POOL	CARBON	0075005	49.
TORRINGTON 1:250,000					
42-14.97 N	104-46.C? W	IMMIGRANTS WASHUTUB	PLATTE	0075055 Q	21.0

43-31.22 N 109-40.00 W LITTLE WARM SPRING
 43-33.60 N 109-43.88 W WARM SPRING CREEK SPRINGS
 43-33.60 N 109-43.88 W WARM SPRING CREEK SPRINGS

FREMONT 0075013 25.0
 FREMONT 0075015 29.0
 FREMONT 0075016 Q 29.

DRIGGS 1:250,000

43-32.75 N 110-44.37 W ABERCROMBIE WARM SPRINGS
 43-18.00 N 110-46.48 W ASTORIA SPRINGS
 43-28.30 N 110-50.08 W BOYLES HILL SPRINGS
 43-21.90 N 110-26.57 W GRANITE FALLS HOT SPRINGS
 43-22.20 N 110-26.68 W GRANITE HOT SPRING
 43-22.20 N 110-26.68 W GRANITE HOT SPRING
 43-57.50 N 110-41.75 W JACKSON LAKE HOT SPRINGS
 43-38.37 N 110-36.92 W KELLY WARM SPRING
 43-16.93 N 110-01.13 W KENDALL WARM SPRINGS
 43-16.93 N 110-01.13 W KENDALL WARM SPRINGS
 43-54.40 N 110-11.70 W NORTH BUFFALO FORK SPRINGS - GROUP 1
 43-54.40 N 110-11.70 W NORTH BUFFALO FORK SPRINGS - GROUP 2
 43-37.43 N 110-36.37 W TETON VALLEY WARM SPRINGS

TETON 0075063 27.0
 TETON 0075064 37.0
 TETON 0075065 30.0
 TETON 0075066 45.0
 TETON 0075067 Q 41.0
 TETON 0075068 39.0
 TETON 0075073 Q 72.0
 TETON 0075074 27.0
 SUBLETTE 0075058 Q 29.5
 SUBLETTE 0075057 29.5
 TETON 0075075 35.5
 TETON 0075076 45.0
 TETON 0075077 18.0

CODY 1:250,000

44-44.90 N 108-11.35 W LITTLE SHEEP MOUNTAIN SPRING
 44-36.45 N 108-08.13 W SHEEP MOUNTAIN SPRINGS
 44-28.50 N 109-12.25 W BUFFALO BILL RESERVOIR SPRINGS
 44-30.78 N 109-06.88 W DE MARIS HOT SPRINGS
 44-30.78 N 109-06.88 W DE MARIS HOT SPRINGS
 44-30.78 N 109-06.88 W DE MARIS HOT SPRINGS
 44-30.78 N 109-06.88 W DE MARIS HOT SPRINGS
 44-30.78 N 109-06.88 W DE MARIS HOT SPRINGS
 44-30.78 N 109-06.88 W DE MARIS HOT SPRINGS
 44-30.78 N 109-06.88 W DE MARIS HOT SPRINGS
 44-30.78 N 109-06.88 W DE MARIS HOT SPRINGS

BIG HORN 0075000 20.
 BIG HORN 0075001 21.
 PARK 0075046
 PARK 0075050 Q 24.
 PARK 0075048 Q 37.0
 PARK 0075047 36.0
 PARK 0075054 Q 27.5
 PARK 0075049 27.0
 PARK 0075053 Q 27.0
 PARK 0075052 Q 27.0
 PARK 0075051 Q 28.0

ASHTON 1:250,000

44-27.67 N 110-51.65 W BLACK SAND BASIN - UNNAMED SPRING
 44-27.7 N 110-51.3 W BLACK SAND BASIN - UNNAMED SPRING
 44-16.55 N 110-30.20 W HEART LAKE GEYSER BASIN - RUSTIC GROUP - UNNAME
 44-28.20 N 110-51.52 W HILLSIDE GROUP - ASTA SPRING (NO. 3)
 44-28.20 N 110-51.52 W HILLSIDE GROUP - ASTA SPRING (NO. 3)
 44-28.20 N 110-51.52 W HILLSIDE GROUP - UNNAMED SPRING
 44-28.20 N 110-51.52 W HILLSIDE GROUP - UNNAMED SPRING
 44-06.88 N 110-41.18 W HUCKLEBERRY HOT SPRINGS
 44-06.88 N 110-41.18 W HUCKLEBERRY HOT SPRINGS
 44-06.88 N 110-41.18 W HUCKLEBERRY HOT SPRINGS
 44-06.88 N 110-41.18 W HUCKLEBERRY HOT SPRINGS
 44-31.47 N 110-52.32 W LOWER GEYSER BASIN - IMPERIAL GEYSER
 44-32.2 N 110-50. W LOWER GEYSER BASIN - BATH SPRING
 44-33.2 N 110-50. W LOWER GEYSER BASIN - BATH SPRING
 44-32.30 N 110-47.02 W LOWER GEYSER BASIN - FIREHOLE LAKE
 44-32.30 N 110-46.98 W LOWER GEYSER BASIN - FIREHOLE POOL
 44-32.30 N 110-46.98 W LOWER GEYSER BASIN - FIREHOLE POOL
 44-32.30 N 110-46.98 W LOWER GEYSER BASIN - FIREHOLE POOL

TETON 0020296 88.
 TETON 0020295
 TETON 0020479
 TETON 0020263
 TETON 0020262
 TETON 0020266 65.
 TETON 0020265 84.
 TETON 0075071 Q 61.0
 TETON 0075070 Q 61.0
 TETON 0075072 Q 71.0
 TETON 0075069 Q 45.0
 TETON 0020360 87.
 TETON 0020379
 TETON 0020378
 TETON 0020367
 TETON 0020369 90.5
 TETON 0020368
 TETON 0020370 91.

44-31.4	N	110-47.7	W LOWER GEYSER BASIN - FISSURE GROUP - EBONY SPRI	TETON	0020365	
44-32.6	N	110-48.4	W LOWER GEYSER BASIN - FOUNTAIN GROUP - FOUNTAIN	TETON	0020364	
44-31.6	N	110-47.5	W LOWER GEYSER BASIN - GREAT FOUNTAIN GROUP - DIA	TETON	0020363	84.0
44-31.6	N	110-47.5	W LOWER GEYSER BASIN - GREAT FOUNTAIN GROUP - DIA	TETON	0020362	
44-31.47	N	110-52.32	W LOWER GEYSER BASIN - IMPERIAL GEYSER	TETON	0020358	
44-31.47	N	110-52.32	W LOWER GEYSER BASIN - IMPERIAL GEYSER	TETON	0020359	89.
44-31.5	N	110-48.5	W LOWER GEYSER BASIN - KALEIDOSCOPE GROUP - UNHAM	TETON	0020366	
44-34.01	N	110-48.23	W LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNN	TETON	0020383	
44-34.00	N	110-48.23	W LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNN	TETON	0020382	29.5
44-34.00	N	110-48.22	W LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNN	TETON	0020386	75.
44-34.00	N	110-48.25	W LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNN	TETON	0020385	75.
44-34.00	N	110-48.23	W LOWER GEYSER BASIN - MORNING MIST SPRINGS - UNN	TETON	0020384	29.
44-33.52	N	110-51.42	W LOWER GEYSER BASIN - MOUND SPRING	TETON	0020400	94.
44-33.47	N	110-52.10	W LOWER GEYSER BASIN - QUEEN'S LAUNDRY	TETON	0020392	
44-33.	N	110-50.	W LOWER GEYSER BASIN - RIVER GROUP - UNNAMED SPRI	TETON	0020381	63.
44-33.	N	110-50.	W LOWER GEYSER BASIN - RIVER GROUP - UNNAMED SPRI	TETON	0020380	64.
44-33.18	N	110-49.51	W LOWER GEYSER BASIN - RIVER GROUP - OJO CALIENTE	TETON	0020377	94.5
44-33.18	N	110-49.51	W LOWER GEYSER BASIN - RIVER GROUP - OJO CALIENTE	TETON	0020376	
44-33.43	N	110-51.45	W LOWER GEYSER BASIN - SENTINEL CONE	TETON	0020389	
44-33.43	N	110-51.45	W LOWER GEYSER BASIN - SENTINEL GROUP - SENTINEL	TETON	0020391	93.
44-33.43	N	110-51.45	W LOWER GEYSER BASIN - SENTINEL GROUP - SENTINEL	TETON	0020390	93.5
44-33.47	N	110-52.10	W LOWER GEYSER BASIN - SENTINEL GROUP - QUEEN'S L	TETON	0020393	89.5
44-33.45	N	110-52.10	W LOWER GEYSER BASIN - SENTINEL GROUP - UNNAMED S	TETON	0020395	69.5
44-33.47	N	110-52.10	W LOWER GEYSER BASIN - SENTINEL GROUP - QUEEN'S L	TETON	0020394	86.
44-33.52	N	110-51.42	W LOWER GEYSER BASIN - SENTINEL GROUP - MOUND SPR	TETON	0020399	
44-34.02	N	110-51.52	W LOWER GEYSER BASIN - SENTINEL GROUP - UNNAMED S	TETON	0020398	92.
44-34.05	N	110-51.48	W LOWER GEYSER BASIN - SENTINEL GROUP - FLAT CONE	TETON	0020397	
44-34.08	N	110-51.53	W LOWER GEYSER BASIN - SENTINEL GROUP - ROSETTE G	TETON	0020396	
44-32.00	N	110-47.57	W LOWER GEYSER BASIN - SURPRISE POOL	TETON	0020387	85.
44-32.	N	110-53.	W LOWER GEYSER BASIN - UNNAMED MUD POT	TETON	0020361	61.
44-32.29	N	110-46.57	W LOWER GEYSER BASIN - UNNAMED SPRING	TETON	0020371	91.
44-32.	N	110-47.	W LOWER GEYSER BASIN - UNNAMED SPRING	TETON	0020373	93.
44-32.	N	110-47.	W LOWER GEYSER BASIN - UNNAMED SPRING	TETON	0020372	92.
44-31.58	N	110-47.48	W LOWER GEYSER BASIN - UNNAMED SPRING	TETON	0020374	88.5
44-32.2	N	110-47.30	W LOWER GEYSER BASIN - UNNAMED SPRING	TETON	0020375	75.
44-31.	N	110-52.	W LOWER GEYSER BASIN - UNNAMED STEAM VENT	TETON	0020357	
44-58.	N	110-42.	W MAMMOTH HOT SPRINGS - ANGEL TERRACE	PARK	0020464	
44-58.	N	110-42.	W MAMMOTH HOT SPRINGS - CAVERN TERRACE	PARK	0020470	66.4
44-58.5	N	110-42.6	W MAMMOTH HOT SPRINGS - CLEOPATRA SPRING	PARK	0020460	
44-58.5	N	110-42.6	W MAMMOTH HOT SPRINGS - CLEOPATRA SPRING	PARK	0020459	
44-58.	N	110-42.	W MAMMOTH HOT SPRINGS - CUPID SPRING	PARK	0020471	71.
44-58.	N	110-42.	W MAMMOTH HOT SPRINGS - HYMEN TERRACE	PARK	0020465	70.5
44-58.	N	110-42.	W MAMMOTH HOT SPRINGS - JUPITER TERRACE	PARK	0020467	71.
44-58.	N	110-42.	W MAMMOTH HOT SPRINGS - MAIN TERRACE	PARK	0020466	73.
44-58.	N	110-42.	W MAMMOTH HOT SPRINGS - MINERVA SPRINGS	PARK	0020473	75.
44-58.	N	110-42.	W MAMMOTH HOT SPRINGS - NEW HIGHLAND TERRACE	PARK	0020472	74.
44-58.	N	110-42.	W MAMMOTH HOT SPRINGS - PALETTE TERRACE	PARK	0020469	
44-58.	N	110-42.	W MAMMOTH HOT SPRINGS - UNNAMED SPRING	PARK	0020468	
44-58.	N	110-42.	W MAMMOTH HOT SPRINGS - UNNAMED SPRING	PARK	0020463	
44-58.	N	110-42.	W MAMMOTH HOT SPRINGS - UNNAMED SPRING	PARK	0020462	
44-58.	N	110-42.	W MAMMOTH HOT SPRINGS - UNNAMED SPRING	PARK	0020461	
44-31.23	N	110-50.08	W MIDWAY GEYSER BASIN - EXCELSIOR GEYSER	TETON	0020343	91.
44-32.33	N	110-50.53	W MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	TETON	0020356	93.
44-32.18	N	110-51.25	W MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	TETON	0020352	74.

44-32.18	N	110-51.27	W	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	TETON	0020353	93.
44-32.15	N	110-51.10	W	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	TETON	0020354	82.0
44-32.18	N	110-51.25	W	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	TETON	0020351	92.
44-32.33	N	110-50.53	W	MIDWAY GEYSER BASIN - FAIRY CREEK GROUP - UNNAM	TETON	0020355	94.5
44-31.	N	110-50.	W	MIDWAY GEYSER BASIN - FLOOD GEYSER	TETON	0020342	94.
44-31.	N	110-50.	W	MIDWAY GEYSER BASIN - FLOOD GEYSER	TETON	0020341	R 92.5
44-31.2	N	110-50.0	W	MIDWAY GEYSER BASIN - INDIGO SPRING	TETON	0020344	
44-31.20	N	110-50.13	W	MIDWAY GEYSER BASIN - PRISMATIC LAKE	TETON	0020345	63.3
44-30.50	N	110-48.42	W	MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNA	TETON	0020349	82.
44-30.50	N	110-48.42	W	MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNA	TETON	0020348	84.
44-30.58	N	110-49.18	W	MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNA	TETON	0020347	94.
44-30.49	N	110-48.42	W	MIDWAY GEYSER BASIN - RABBIT CREEK GROUP - UNNA	TETON	0020350	90.
44-30.57	N	110-49.50	W	MIDWAY GEYSER BASIN - UNNAMED CONE	TETON	0020346	92.6
44-31.	N	110-50.	W	MIDWAY GEYSER BASIN - UNNAMED SPRING	TETON	0020339	
44-43.	N	110-43.	W	NORRIS GEYSER BASIN - "BATH-TUB" SPRING	PARK	0020445	
44-43.	N	110-43.	W	NORRIS GEYSER BASIN - "BATH-TUB" SPRING	PARK	0020444	
44-43.	N	110-43.	W	NORRIS GEYSER BASIN - BATHTUB SPRING	PARK	0020446	93.
44-43.	N	110-43.	W	NORRIS GEYSER BASIN - BLACK GROWLER	PARK	0020426	
44-43.	N	110-43.	W	NORRIS GEYSER BASIN - BLACK GROWLER	PARK	0020425	
44-43.	N	110-42.	W	NORRIS GEYSER BASIN - BLACK HERON CAULDRON	PARK	0020449	93.
44-44.	N	110-43.	W	NORRIS GEYSER BASIN - CINDER POOL (NO. 17)	PARK	0020431	
44-43.80	N	110-42.00	W	NORRIS GEYSER BASIN - CONGRESS POOL	PARK	0020434	
44-43.	N	110-42.	W	NORRIS GEYSER BASIN - CORAL SPRING	PARK	0020421	
44-43.58	N	110-42.42	W	NORRIS GEYSER BASIN - ECHINUS GEYSER	PARK	0020422	
44-43.	N	110-43.	W	NORRIS GEYSER BASIN - EMERALD SPRING	PARK	0020440	88.
44-43.	N	110-42.	W	NORRIS GEYSER BASIN - GABLE SPRING (NO. 32)	PARK	0020430	
44-43.56	N	110-42.40	W	NORRIS GEYSER BASIN - GEYSER NO. 27	PARK	0020423	
44-43.	N	110-43.	W	NORRIS GEYSER BASIN - GREEN DRAGON SPRING	PARK	0020442	84.
44-44.	N	110-42.	W	NORRIS GEYSER BASIN - IRIS SPRING (NO. 71)	PARK	0020420	
44-43.	N	110-43.	W	NORRIS GEYSER BASIN - PEARL GEYSER	PARK	0020441	85.
44-44.	N	110-43.	W	NORRIS GEYSER BASIN - PORCELAIN BASIN NO. 24	PARK	0020428	
44-44.	N	110-43.	W	NORRIS GEYSER BASIN - PORCELAIN BASIN NO. 70	PARK	0020427	
44-43.	N	110-42.	W	NORRIS GEYSER BASIN - SPRING NO. 1	PARK	0020403	
44-43.	N	110-42.	W	NORRIS GEYSER BASIN - SPRING NO. 15	PARK	0020409	
44-43.	N	110-42.	W	NORRIS GEYSER BASIN - SPRING NO. 18	PARK	0020410	
44-43.	N	110-42.	W	NORRIS GEYSER BASIN - SPRING NO. 19	PARK	0020411	
44-43.75	N	110-42.47	W	NORRIS GEYSER BASIN - SPRING NO. 20	PARK	0020424	
44-43.	N	110-42.	W	NORRIS GEYSER BASIN - SPRING NO. 21	PARK	0020412	
44-43.	N	110-42.	W	NORRIS GEYSER BASIN - SPRING NO. 23	PARK	0020413	
44-43.81	N	110-42.03	W	NORRIS GEYSER BASIN - SPRING NO. 25	PARK	0020436	
44-43.	N	110-42.	W	NORRIS GEYSER BASIN - SPRING NO. 30	PARK	0020414	
44-43.	N	110-42.	W	NORRIS GEYSER BASIN - SPRING NO. 33	PARK	0020415	
44-43.	N	110-42.	W	NORRIS GEYSER BASIN - SPRING NO. 4	PARK	0020404	
44-43.	N	110-42.	W	NORRIS GEYSER BASIN - SPRING NO. 5	PARK	0020405	
44-43.	N	110-42.	W	NORRIS GEYSER BASIN - SPRING NO. 6	PARK	0020406	
44-43.	N	110-43.	W	NORRIS GEYSER BASIN - SPRING NO. 61	PARK	0020417	
44-44.	N	110-42.	W	NORRIS GEYSER BASIN - SPRING NO. 62	PARK	0020418	
44-44.	N	110-42.	W	NORRIS GEYSER BASIN - SPRING NO. 68	PARK	0020419	
44-43.	N	110-42.	W	NORRIS GEYSER BASIN - SPRING NO. 7	PARK	0020407	
44-43.	N	110-42.	W	NORRIS GEYSER BASIN - SPRING NO. 9	PARK	0020408	
44-43.80	N	110-41.98	W	NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020435	92.
44-44.	N	110-43.	W	NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020433	79.
44-43.	N	110-43.	W	NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020439	90.6
44-43.	N	110-43.	W	NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020438	92.

44-44.	N 110-43.	W NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020429	
44-43.58	N 110-42.42	W NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020448	91.
44-43.58	N 110-42.42	W NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020447	70.
44-43.8	N 110-42.5	W NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020457	
44-43.8	N 110-42.5	W NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020456	
44-43.7	N 110-42.6	W NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020455	85.
44-43.7	N 110-42.6	W NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020454	73.
44-43.8	N 110-42.7	W NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020453	90.
44-43.8	N 110-42.7	W NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020452	89.
44-43.8	N 110-42.7	W NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020451	90.
44-43.8	N 110-42.7	W NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020450	89.
44-43.7	N 110-42.6	W NORRIS GEYSER BASIN - UNNAMED SPRING	PARK	0020458	80.
44-44.	N 110-43.	W NORRIS GEYSER BASIN - UNNAMED STEAM VENT	PARK	0020437	
44-43.	N 110-43.	W NORRIS GEYSER BASIN - UPPER GREEN DRAGON SPRING	PARK	0020443	94.
44-44.	H 110-43.	W NORRIS GEYSER BASIN - YERMILLION POOL	PARK	0020432	94.
44-27.77	N 110-50.75	W ORANGE GROUP - UNNAMED SPRING	TETON	0020287	71.
44-27.68	N 110-50.00	W PIPELINE CREEK SPRING	TETON	0020307	
44-26.4	N 110-34.5	W POTTS HOT SPRING BASIN - UNNAMED GEYSER	TETON	0020486	95.
44-26.4	N 110-34.5	W POTTS HOT SPRING BASIN - UNNAMED SPRING	TETON	0020487	94.
44-21.1	N 110-48.0	W SHOSHONE GEYSER BASIN - BLUE GLASS SPRING	TETON	0020474	
44-21.18	N 110-47.54	W SHOSHONE GEYSER BASIN - MINUTE MAN GEYSER	TETON	0020478	
44-21.12	N 110-48.03	W SHOSHONE GEYSER BASIN - TAURUS GEYSER	TETON	0020475	
44-20.48	N 110-47.55	W SHOSHONE GEYSER BASIN - UNION GEYSER	TETON	0020477	
44-21.	N 110-48.	W SHOSHONE GEYSER BASIN - UNNAMED SPRING	TETON	0020476	
44-39.00	N 110-50.45	W TERRACE SPRING	TETON	0020402	60.
44-39.00	N 110-50.45	W TERRACE SPRING	TETON	0020401	61.8
44-31.	N 110-50.	W UNNAMED SPRING	TETON	0020340	94.
44-27.53	N 110-49.45	W UPPER GEYSERS BASIN - UNNAMED SPRING	TETON	0020304	
44-27.43	N 110-50.00	W UPPER GEYSERS BASIN - UNNAMED SPRING	TETON	0020254	68.
44-27.43	N 110-50.00	W UPPER GEYSER BASIN - ARTEMESIA GEYSER	TETON	0020257	87.
44-27.43	N 110-50.00	W UPPER GEYSER BASIN - ARTEMESIA GEYSER	TETON	0020256	
44-27.43	N 110-50.00	W UPPER GEYSER BASIN - ARTEMESIA GEYSER	TETON	0020255	
44-27.73	N 110-51.35	W UPPER GEYSER BASIN - BLACK SAND POOL	TETON	0020293	92.7
44-27.43	N 110-50.00	W UPPER GEYSER BASIN - BOTTOMLESS PIT	TETON	0020267	
44-27.5	N 110-50.6	W UPPER GEYSER BASIN - CASTLE GEYSER	TETON	0020286	
44-27.43	N 110-50.00	W UPPER GEYSER BASIN - CHINAMAN SPRING	TETON	0020268	93.5
44-27.43	N 110-50.00	W UPPER GEYSER BASIN - CHINAMAN SPRING	TETON	0020269	93.5
44-28.50	N 110-50.00	W UPPER GEYSER BASIN - DAISY GEYSER	TETON	0020277	89.
44-28.50	N 110-50.00	W UPPER GEYSER BASIN - DAISY SPRING	TETON	0020276	88.6
44-27.4	N 110-50.0	W UPPER GEYSER BASIN - EAR SPRING	TETON	0020251	93.
44-28.5	N 110-50.0	W UPPER GEYSER BASIN - ECONOMIC GEYSER	TETON	0020291	63.
44-28.5	N 110-50.0	W UPPER GEYSER BASIN - ECONOMIC GEYSER	TETON	0020290	83.7
44-27.28	N 110-51.13	W UPPER GEYSER BASIN - EMERALD POOL	TETON	0020297	70.
44-27.7	N 110-49.5	W UPPER GEYSER BASIN - GIANTESS GEYSER	TETON	0020249	94.1
44-28.20	N 110-51.52	W UPPER GEYSER BASIN - HILLSIDE NO. 1	TETON	0020264	
44-28.50	N 110-50.00	W UPPER GEYSER BASIN - IRON SPRING	TETON	0020280	90.8
44-28.5	N 110-50.0	W UPPER GEYSER BASIN - JEWEL GEYSER	TETON	0020284	93.7
44-28.5	N 110-50.0	W UPPER GEYSER BASIN - JEWEL GEYSER	TETON	0020285	88.
44-28.05	N 110-50.32	W UPPER GEYSER BASIN - MORNING GLORY POOL	TETON	0020298	77.
44-27.63	N 110-49.38	W UPPER GEYSER BASIN - OLD FAITHFUL GEYSER	TETON	0020281	
44-27.98	N 110-50.42	W UPPER GEYSER BASIN - PINE SPRINGS GROUP - UNNAM	TETON	0020319	83.
44-28.42	N 110-50.45	W UPPER GEYSER BASIN - PINE SPRINGS GROUP - UNNAM	TETON	0020318	83.
44-28.25	N 110-51.95	W UPPER GEYSER BASIN - PUNCH BOWL SPRING	TETON	0020274	83.
44-28.25	N 110-51.95	W UPPER GEYSER BASIN - PUNCHBOWL SPRING	TETON	0020273	92.8

44-28.48 N 110-51.15 W UPPER GEYSER BASIN - SAPPHIRE SPRING	TETON	0020258	94.5
44-27.7 N 110-51.3 W UPPER GEYSER BASIN - SPOUTER SPRING	TETON	0020294	92.5
44-28.50 N 110-50.00 W UPPER GEYSER BASIN - SULFIDE SPRING	TETON	0020283	77.
44-27.43 N 110-50.00 W UPPER GEYSER BASIN - TEAKETTLE SPRING	TETON	0020271	
44-27.43 N 110-50.00 W UPPER GEYSER BASIN - TEAKETTLE SPRING	TETON	0020272	92.
44-28.5 N 110-50.0 W UPPER GEYSER BASIN - THREE SISTERS SPRING	TETON	0020278	90.5
44-28.5 N 110-50.0 W UPPER GEYSER BASIN - THREE SISTERS SPRING	TETON	0020279	
44-27.43 N 110-50.00 W UPPER GEYSER BASIN - TOPAZ SPRING	TETON	0020270	
44-27.03 N 110-50.33 W UPPER GEYSER BASIN - UNNAMED DRILL HOLE	TETON	0020282	
44-27.43 N 110-50.00 W UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020300	55.
44-27.43 N 110-50.00 W UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020299	63.
44-27.35 N 110-49.37 W UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020305	81.
44-27.58 N 110-49.07 W UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020303	90.
44-28.20 N 110-50.45 W UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020301	81.
44-27.35 N 110-49.37 W UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020306	63.
44-28.0 N 110-50.0 W UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020310	71.
44-28.0 N 110-50.0 W UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020312	
44-27.7 N 110-49.5 W UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020250	82.5
44-27.4 N 110-50.0 W UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020252	89.
44-28.50 N 110-50.00 W UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020289	91.
44-27.43 N 110-50.00 W UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020253	84.
44-28.20 N 110-50.45 W UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020302	
44-28.50 N 110-50.00 W UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020292	
44-28.25 N 110-51.95 W UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020275	84.
44-28.4 N 110-51.53 W UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020260	80.
44-28.44 N 110-51.52 W UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020261	76.
44-27.77 N 110-49.20 W UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020313	91.
44-28.0 N 110-50.0 W UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020311	75.
44-28.00 N 110-50.00 W UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020309	80.
44-27.53 N 110-49.46 W UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020317	64.
44-27.35 N 110-49.37 W UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020316	89.
44-27.67 N 110-49.63 W UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020315	75.
44-27.53 N 110-49.45 W UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020314	82.
44-27.50 N 110-50.00 W UPPER GEYSER BASIN - UNNAMED SPRING	TETON	0020288	87.
44-28.43 N 110-51.53 W UPPER GEYSER BASIN - WEST SPRING	TETON	0020259	80.
44-25. N 110-34. W WEST THUMB GEYSER BASIN - ABYSS POOL	TETON	0020482	90.
44-25. N 110-34. W WEST THUMB GEYSER BASIN - BLACK POOL	TETON	0020483	78.5
44-24. N 110-34. W WEST THUMB GEYSER BASIN - EPHEDRA GEYSER	TETON	0020485	89.
44-24. N 110-34. W WEST THUMB GEYSER BASIN - UNNAMED SPRING	TETON	0020484	84.1
44-25. N 110-34. W WEST THUMB GEYSER BASIN - UNNAMED SPRING	TETON	0020481	
44-25.5 N 110-34.2 W WEST THUMB GEYSER BASIN - UNNAMED SPRING	TETON	0020480	
44-54.65 N 110-23.78 W YELLOWSTONE - CALCITE NO. 1	PARK	0020503	92.5
44-54.65 N 110-23.78 W YELLOWSTONE - CALCITE NO. 2	PARK	0020505	89.4
44-54.65 N 110-23.78 W YELLOWSTONE - CALCITE SPRINGS	PARK	0020502	
44-54.65 N 110-23.78 W YELLOWSTONE - CALCITE SPRINGS	PARK	0020504	
44-42.78 N 110-44.67 W YELLOWSTONE - CHOCOLATE POTS	PARK	0020506	51.
44-42.77 N 110-44.67 W YELLOWSTONE - CHOCOLATE POTS	PARK	0020507	52.
44-45.53 N 110-25.85 W YELLOWSTONE - DEVIL'S INKPOT	PARK	0020494	
44-45.53 N 110-25.85 W YELLOWSTONE - DEVIL'S INKPOT	PARK	0020492	
44-45.53 N 110-25.85 W YELLOWSTONE - DEVIL'S INKPOT	PARK	0020493	81.5
44-27.4 N 110-50.0 W YELLOWSTONE - EAR SPRING	TETON	0075091	95.
44-31.23 N 110-50.08 W YELLOWSTONE - EXCELSIOR SPRING	TETON	0075089	76.
44-32.30 N 110-47.02 W YELLOWSTONE - FIREHOLE LAKE (LOWER)	TETON	0075081	93.
44-28.2 N 110-51.5 W YELLOWSTONE - HILLSIDE (UPPER)	TETON	0075082	84.5

44-37.28 N 110-25.58 W YELLOWSTONE	- MUD VOLCANO	PARK	0020500	85.5
44-58. N 110-42. W YELLOWSTONE	- NEW HIGHLAND	PARK	0075079	73.5
44-43. N 110-42. W YELLOWSTONE	- NORRIS GEYSER BASIN - SPRING NO.	PARK	0020416	
44-33.18 N 110-49.51 W YELLOWSTONE	- OJO CALIENTE SPRING (RIVER GROUP	TETON	0075087	95.
44-28.48 N 110-51.15 W YELLOWSTONE	- SAPPHIRE SPRING	TETON	0075090	95.
44-37.28 N 110-25.58 W YELLOWSTONE	- SULFUR POOL	PARK	0020501	
44-39.00 N 110-50.45 W YELLOWSTONE	- TERRACE	TETON	0075080	66.
44-32.38 N 110-15.22 W YELLOWSTONE	- UNNAMED SPRING	PARK	0020499	86.1
44-32.48 N 110-15.35 W YELLOWSTONE	- UNNAMED SPRING	PARK	0020498	88.8
44-46.00 N 110-25.80 W YELLOWSTONE	- UNNAMED SPRING	PARK	0020497	88.
44-46.00 N 110-25.80 W YELLOWSTONE	- UNNAMED SPRING	PARK	0020496	
44-46.00 N 110-25.80 W YELLOWSTONE	- UNNAMED SPRING	PARK	0020495	
44-39.53 N 110-28.75 W YELLOWSTONE	- UNNAMED SPRING	PARK	0020491	87.
44-39.50 N 110-29.00 W YELLOWSTONE	- UNNAMED SPRING	PARK	0020490	70.6
44-39.50 N 110-28.93 W YELLOWSTONE	- UNNAMED SPRING	PARK	0020489	85.
44-39.50 N 110-28.93 W YELLOWSTONE	- UNNAMED SPRING	PARK	0020488	79.8
44-28.5 N 110-50.0 W YELLOWSTONE	- UPPER GEYSER BASIN - UNNAMED SPRI	TETON	0020308	87.

APPENDIX D

Sources for the records in the GEOTHERM sample file for Wyoming. Each reference is preceded by its abbreviated form (called CODE) used in the sample file (Table 1). Entries in this computer-generated appendix are sorted by CODE.

CODE = ALLEN AND DAY, 1935

ALLEN, E. T., AND DAY, A. L., 1935, HOT SPRINGS OF THE YELLOWSTONE NATIONAL PARK: CARNEGIE INSTITUTION OF WASHINGTON PUBLICATION NO. 466, 525 P.

CODE = BRECKENRIDGE AND HINCKLEY, 1978

BRECKENRIDGE, R. M. AND HINCKLEY, B. S., 1978, THERMAL SPRINGS OF WYOMING: WYOMING GEOLOGICAL SURVEY BULLETIN 60, 104 P.

CODE = GOOCH AND WHITFIELD, 1888

GOOCH, F. A., AND WHITFIELD, J. E., 1888, ANALYSES OF WATERS OF YELLOWSTONE NATIONAL PARK, WITH AN ACCOUNT OF THE METHODS OF ANALYSIS EMPLOYED: U.S. GEOLOGICAL SURVEY BULLETIN 47, 84 P.

CODE = GUNTER, 1973

GUNTER, B. D., 1973, AQUEOUS PHASE-GASES PHASE MATERIAL BALANCE STUDIES OF ARGON AND NITROGEN IN HYDROTHERMAL FEATURES AT YELLOWSTONE NATIONAL PARK: GEOCHIMICA ET COSMOCHIMICA ACTA, V. 37, NO. 3, P. 495-513.

CODE = GUNTER AND MUSGRAVE, 1966

GUNTER, B. D., AND MUSGRAVE, B. C., 1966, GAS CHROMATOGRAPHIC MEASUREMENTS OF GEOTHERMAL EMANATIONS AT YELLOWSTONE NATIONAL PARK: GEOCHIMICA ET COSMOCHIMICA ACTA, V. 30, NO. 11, P. 1175-118.

CODE = MAZOR AND WASSERBURG, 1965.

MAZOR, E., AND WASSERBURG, G. J., 1965, HELIUM, NEON, ARGON, KRYPTON AND XENON IN GAS EMANATIONS FROM YELLOWSTONE AND LASSEN VOLCANIC NATIONAL PARKS: GEOCHIMICA ET COSMOCHIMICA ACTA, V. 29, NO. 5, P. 443-454.

CODE = TRUESDALE AND FOURNIER, 1976

TRUESDALE, A. H. AND FOURNIER, R. O., 1976, CONDITIONS IN THE DEEPER PARTS OF THE HOT SPRING SYSTEMS OF YELLOWSTONE NATIONAL PARK, WYOMING: U. S. GEOLOGICAL SURVEY OPEN-FILE REPORT 76-428, 29 P.

CODE = WHITE AND WILLIAMS, 1975

WHITE, D. E. AND WILLIAMS, D. L., 1975, ASSESSMENT OF GEOTHERMAL
RESOURCES OF THE UNITED STATES-1975: U. S. GEOLOGICAL SURVEY
CIRCULAR 726, 155 P.