5-1983

United States Department of the Interior Geological Survey, Utah, Basic Data for Thermal Springs and Wells as Recorded in Geotherm

James D. Bliss

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UTAH
Basic data for thermal springs and wells as recorded in GEOTHERM

By
James D. Bliss

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

GEOTHERM, 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). GEOTHERM 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 GEOTHERM and a general scheme of how the information system operated can be found in Bliss and Rapport (1983).

This report on Utah is one of a series intended to preserve the data collected for GEOTHERM 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 presented 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.

GEOTHERM INDEXES

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

Appendix A (p. 335-346) is sorted by the county name and the name of the source. Also given are latitude, longitude (both use decimal minutes), township, range, section, GEOTHERM 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. 347-359) is sorted by 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. 360-372) 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 643 records for Utah (Table 1). Records may be present which are duplicates for the same analyses. 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 preceeds the number when appropriate. The codes and their meaning are given in Table 1.

Each thermal spring or well usually is 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 Utah available as of December, 1981. However, no claim is made for completeness, and published sources have probably been missed. Less then 1% of the records in this list contains information which was unpublished 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 useful to some users.
GEOTHERM BIBLIOGRAPHY

A bibliography is given in Appendix D (p. 373-379). 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. Codes with a trailing "*" in the full GEOTHERM record are also described in greater detail in Appendix D and are listed ahead of published sources.

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 Utah were prepared by the staff of either the Utah Geological and Mineral Survey or the U.S. Geological Survey.

REFERENCES CITED


TABLE 1

State of Utah: 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. However, if the UTM Easting figure is present in the record, it will be found directly below the UTM 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 "*". Those which begin and end with a "*" are also found in Appendix D.
<table>
<thead>
<tr>
<th>Location</th>
<th>Township-Range</th>
<th>Coordinates</th>
<th>Temperature (C)</th>
<th>Water Depth (m)</th>
<th>Discharge (L/min)</th>
<th>Water Analysis</th>
<th>Reference and Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. W. Winning</td>
<td>28S 010W 05</td>
<td>38°23.94 N 112°59.88 W</td>
<td>20.0</td>
<td>0.0</td>
<td>3.0</td>
<td>0.0</td>
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<td>Beavert</td>
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<tr>
<td>Bartun</td>
<td>29S 08W 36</td>
<td>38°14.94 N 112°42.00 W</td>
<td>19.0</td>
<td>0.0</td>
<td>2.0</td>
<td>0.0</td>
<td>Geotherm File 101 0017234</td>
</tr>
<tr>
<td>Notsons (Radium)</td>
<td>30S 009W 07</td>
<td>38°12.96 N 112°54.12 W</td>
<td>19.0</td>
<td>0.0</td>
<td>2.0</td>
<td>0.0</td>
<td>Geotherm File 101 0017021</td>
</tr>
</tbody>
</table>
SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (°C)......... 31.7
DISCHARGE............... 379. L/MIN
WATER ANALYSIS
ANALYSIS IN MG/L
AL............ 1.73
CA............ 11.4
CL............ 6.5
Mg............ 2.4
Na............ 170
SiO2........... 31
SO4............ 48

REFERENCE AND IDENTIFICATION

COMPILER.............. GODDE, H.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.............. LEE, 1908

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE... DOLSON (RADON)

LOCATION

COUNTRY............ UNITED STATES
STATE.............. UTAH
COUNTY............. BEAVER
GEODETIC PROVINCE... UTAH
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (°C)......... 36.1
DISCHARGE............... 218. L/MIN
WATER ANALYSIS
ANALYSIS IN MG/L
BE............ 1.8
CA............ 205
NO3............ 87

REFERENCE AND IDENTIFICATION

COMPILER.............. GODDE, H.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.............. LEE, 1908

COORDINATES
LAT/LONG........ 38-12.96 N 112-54.12 W
UTM ZONE........ 112
NORTHING....... 4231251
333489

ISOTOPES (0/00)

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE... DOLSON (RADON)

LOCATION

COUNTRY............ UNITED STATES
STATE.............. UTAH
COUNTY............. BEAVER
GEODETIC PROVINCE... UTAH
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR...... 1962/08/21
TEMPERATURE (°C)......... 32.5
WATER ANALYSIS
P.................... 8.3
SPECIFIC CONDUCTANCE.... 1420
TOT DISSOLVED SOLIDS.... 1030
CHARGE IMBALANCE (% DIFF)... 4.7
ANALYSIS IN MG/L
Ag............ 3
CO3............ 3
Ca............ 11
Cl............ 6.5
Fe........... 9.8
H................ F(TOT) 0.42
Na............ 170
SiO2........... 31
SO4............ 48

ISOTOPES (0/00)
Geothermal Sample File

Name of Sample Source: Notsons (Radium)

Location:
- Country: United States
- Township-Range: 30S 009W 07 SW of NE
- Coordinates: Lat/Lon: 38-12.96 N 112-54.00 W
- UTM Zone: 12
- Northing: 4231281
- Elevation: 33366'

Sample Description and Conditions:
- Date/Collector: 1967/07/11
- Temperature (C): 31.5

Water Analysis:
- pH: 7.4
- Specific Conductance: 1130
- Total Dissolved Solids: 1020
- Charge Imbalance (% Diff): 1.2

Analysis in mg/L:
- Na: 30
- Cl: 63
- Ca: 84
- Mg: 35
- Fe: 4.5
- F: 0.47
- K: 170
- SiO2: 32
- N: 440

Isotopes (0/00):

Reference and Identification:
- Compiled By: P. Murphy
- Compiler Affiliation: Utah Geological and Mineral Survey
- Reference: Nower and Cordova, 1974

Geothermal Sample File

Name of Sample Source: E. Tanner

Location:
- Country: United States
- Township-Range: 28S 010W 05 SW of NW
- Coordinates: Lat/Lon: 38-23.94 N 112-59.88 W
- UTM Zone: 12
- Northing: 4251770
- Elevation: 325523

Sample Description and Conditions:
- Temperature (C): 71
- Depth (M): 87
- Discharge: 30 L/min

Water Analysis:
- Analysis in mg/L:
  - Fe: 10
  - HCO3: 101
  - Cl: 3
  - Ca: 50
  - Mg: 11
  - Na: 50

Isotopes (0/00):

Reference and Identification:
- Compiled By: M. Andrew

Reference and Identification:
- Compiled By: M. Andrew

Reference and Identification:
- Compiled By: M. Andrew
STATE: UTAH
COUNTY: BEAVER
GEOLOGIC PROVINCE: [Illegible]

SAMPLE DESCRIPTION AND CONDITIONS:
DATE/COLLECTOR: 1961/09/11
TEMPERATURE (C): 25.9
WELL DEPTH (M): 10.4
OTHER SAMPLE INFORMATION: DRILLED IN 1905

WATER ANALYSIS:
PH: 7.9
SPECIFIC CONDUCTANCE: 290.8
TOTAL DISSOLVED SOLIDS: 254.8

ANALYSIS IN MG/L:
AL: [Illegible] CR: [Illegible] Mg: 5.4 SiO2: 69
BA: [Illegible] F: [Illegible] NA: [Illegible]
BA: [Illegible] Fe: [Illegible] NAK: [Illegible]
BE: [Illegible] Fe: [Illegible] NO3: [Illegible]
CA: 32.0 HCO3: 128.0
Cl: 7.0

REFERENCE AND IDENTIFICATION:
COMPILED BY: GOODF, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: SANDHUR, 1963

---------------------------------
GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE: HANSON LAND & LIVESTOCK
LOCATION:
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: BEAVER
GEOLOGIC PROVINCE: [Illegible]

SAMPLE DESCRIPTION AND CONDITIONS:
DATE/COLLECTOR: 1971/05/20
TEMPERATURE (C): 10.5
WELL DEPTH (M): 78.5

WATER ANALYSIS:
PH: 8.0
SPECIFIC CONDUCTANCE: 34.8
TOTAL DISSOLVED SOLIDS: 249.

ANALYSIS IN MG/L:
AG: [Illegible] CO3: N
AL: [Illegible] CR: [Illegible] Mg: 5.7 SiO2: 27
BA: [Illegible] F: [Illegible] NA: 29
BA: [Illegible] Fe: [Illegible] NO3: [Illegible]
BE: [Illegible] HCO3: 134.4
Cl: 33.0

REFERENCE AND IDENTIFICATION:
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: [Illegible] 1974
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**Sample Description and Conditions**
- Temperature (°C): 28.6
- Well Depth (M): 229
- Discharge: 7.0 L/min
- Other Sample Information: Two Wells

**Water Analysis**
- Analysis in mg/l
  - Na: 145
  - Cl: 75

**Qualification Field:** H2S in Bottom of Well

**Reference and Identification**
- Compiler: Goode, H.
- Compiler Affiliation: Utah Geophysical and Mineral Survey
- Reference: LEE, 1908
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<td>COUNTY: BEAVER</td>
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<td>SAMPLE DESCRIPTION AND CONDITIONS</td>
<td>TEMPERATURE (°C): 20.0</td>
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<td>WELL DEPTH (M): 85.0</td>
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<td>DISCHARGE: 26.0 L/MIN</td>
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| REFEREE AND IDENTIFICATION | COMPILED BY: MURPHY, P.
| COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY |
| REFERENCE: | |
| GEOthurm SAMPLE FILE | NAME OF SAMPLE SOURCE: MCKEAN, P. H. (ROOSEVELT) |
| LOCATION | COUNTRY: UNITED STATES | TOWNSHIP-RANGE: 26S 009W 34 SW OF NW |
| STATE: UTAH | COUNTY: BEAVER |
| GEOLOGIC PROVINCE: | |
| SAMPLE DESCRIPTION AND CONDITIONS | DATE/COLLECTED: 1957/09/11 |
| TEMPERATURE (°C): 56.0 |
| WATER ANALYSIS | PH: 7.9 |
| SPECIFIC CONDUCTANCE: 12700.0 |
| TOTAL DISSOLVED SOLIDS: 7900.0 |
| CHARGE IMBALANCE (%) DIFF): 1.4 |
| ANALYSIS IN MG/L | CA: 23.0 |
| Mg: 9.0 | Na: 2590.0 |
| Fe: 10.0 | 504.0 |
| ISOThopes (18/04) | K: 10.0 |
| M: B: C: O: S: N: H:  |
| ISOThopes (18/04) | K: 10.0 |
| M: B: C: O: S: N: H:  |
| ISOThopes (18/04) | K: 10.0 |
| M: B: C: O: S: N: H:  |
| ISOThopes (18/04) | K: 10.0 |
| M: B: C: O: S: N: H:  |
DATE/COLLECTOR:.. 1950/11/04
TEMPERATURE (C):.. 65.9
MAJOR ANALYSIS
SPECIFIC CONDUCTANCE:.. 11500,
TOTAL DISSOLVED SOLIDS:.. 7048,
CHARGE IMBALANCE (4 DIFF):.. 74
ANALYSIS IN MG/L
AL..... 7.6
H..... 71
Ca..... 19.1
Cl..... 3810
Mg..... 3.3
Na..... 2080
SC..... 145
KS..... 65
ISOTOPES (10/00)

QUALIFICATION FIELD: GEOThermal TEST WELLS HAVE REACHED TEMPERATURES OF 269 DEG C.
REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MUNDOFF, 1970

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WEATHER SAMPLE FILE
NAME OF SAMPLE SOURCE: McKEAN, P.B. (HOUSEVELT)
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: HEAVEN
GEOLOGIC PROVINCE.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1906/09/08
TEMPERATURE (C): 99
DISCHARGE: 38.6 LM/N
MAJOR ANALYSIS
TOTAL DISSOLVED SOLIDS: 645
ANALYSIS IN MG/L
AL..... 9.7
H..... 191
Ca..... 102
Cl..... 30
Mg..... 3.5
Na..... 102
SC..... 304
KS..... 9.9
ISOTOPES (10/00)

REFERENCE AND IDENTIFICATION
COMPILED BY: GOUDEY, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: LEE, 1908

-------------------------------------------------------------------------------------
WEATHER SAMPLE FILE
NAME OF SAMPLE SOURCE: MILFORD TOWN
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: HEAVEN
GEOLOGIC PROVINCE.
SAMPLE DESCRIPTION AND CONDITIONS

-------------------------------------------------------------------------------------
TEMPERATURE (C)........... 22.2
WELL DEPTH (M)........... 130
DISCHARGE............... 114 L/Min

WATER ANALYSIS
ANALYSIS IN MG/L
AL.................. Mg...... 6.6
Ca.................. Na...... 66
Fe(tot).............. Na+K+ 66
HCO3...... 190

OTHER ANALYTICAL DATA
Na+K.......................... 66
HCO3...... 190

REFERENCE AND IDENTIFICATION
COMPILERS NAME........... Guode, H.
COMPILERS AFFILIATION... Utah Geological and Mineral Survey
REFERENCE................. LEE: 1908

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... Milford Town
LOCATION
COUNTRY.............. UNITED STATES
STATE............... UTAH
COUNTY.............. Weaver
GEOLOGIC PROVINCE.. 35

SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C)........... 22.2
WELL DEPTH (M)........... 130
DISCHARGE............... 114 L/Min

WATER ANALYSIS
TOTAL DISSOLVED SOLIDS.. 248
ANALYSIS IN MG/L
AL.................. Mg...... 6.6
Ca.................. Na...... 66
Fe(tot).............. Na+K+ 66
HCO3...... 190

REFERENCE AND IDENTIFICATION
COMPILERS NAME........... Guode, H.
COMPILERS AFFILIATION... Utah Geological and Mineral Survey
REFERENCE................. LEE: 1908

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... Minerva Res. Irr. Co.
LOCATION
COUNTRY.............. UNITED STATES
STATE............... UTAH
COUNTY.............. Weaver
GEOLOGIC PROVINCE.. 35

OTHER LOCALITY INFORMATION
IN BOTTOM OF MINERVAL RESERVOIR

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLECTOR........... 1961/07/15
TEMPERATURE (C)........... 21.1

REFERENCE................. LEE: 1908
### SPECIFIC CONDUCTANCE
1090.

### TOTAL DISSOLVED SOLIDS
713.

#### ANALYSIS IN MG/L

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<td>Be</td>
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<td>Cl</td>
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#### ISOPIES (O/AR)

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#### REFERENCE AND IDENTIFICATION
COMPILED BY: M. GOODE, H.
COMPILOT AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: SANDBERG, 1963

---

### GEOTERM SAMPLE FILE

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#### LOCATION

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<td>COUNTY</td>
<td>BEAVEN</td>
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<td>GEOLOGIC PROVINCE</td>
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#### SAMPLE DESCRIPTION AND CONDITIONS

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<td>WELL DEPTH (M)</td>
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#### WATER ANALYSIS

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#### ANALYSIS IN MG/L

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#### ISOPIES (O/AR)

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#### REFERENCE AND IDENTIFICATION
COMPILED BY: P. HURPHY
COMPILOT AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HOWE AND CONDOVA, 1974

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### GEOTERM SAMPLE FILE

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#### LOCATION

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#### SAMPLE DESCRIPTION AND CONDITIONS

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#### WATER ANALYSIS

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#### ANALYSIS IN MG/L

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<tr>
<td>AL</td>
<td>CR</td>
<td>39.</td>
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<tr>
<td>Be</td>
<td>Fe</td>
<td>84.</td>
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<tr>
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#### ISOPIES (O/AR)

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#### REFERENCE AND IDENTIFICATION
COMPILED BY: P. HURPHY
COMPILOT AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HOWE AND CONDOVA, 1974
**DISCHARGE**........... 3785.

**WATER ANALYSIS**

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**ANALYSIS IN mg/l**

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**REFERENCE AND IDENTIFICATION**

COMPILER................. MURPHY, P.
COMPILED EFFORT .......... ITAT GEOLICAL AND MINERAL SURVEY
REFERENCE................ HAWK AND CORDOVA, 1974

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**GEOTHERMAL SAMPLE-FILE**

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<td>LOCATION</td>
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**ISOTOPES**

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**REFERENCE AND IDENTIFICATION**

COMPILER................. SILVA, CHRISTOPHER L.
COMPILED EFFORT .......... U.S. GEOLOGICAL SURVEY

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**GEOTHERMAL SAMPLE-FILE**

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**ISOTOPES**

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**REFERENCE AND IDENTIFICATION**

COMPILER................. SILVA, CHRISTOPHER L.
COMPILED EFFORT .......... U.S. GEOLOGICAL SURVEY
COUNTRY.............. UNITED STATES
STATE.................. UTAH
COUNTY............... BEAVER
OTHER LOCALITY INFORMATION: 2210 FT S; 2219 FT W FROM NE CORNER.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR........ 1975/08/26
SAMPLE NUMBER......... PHILLIPS 54-3A
TEMPERATURE (C)........ 0 260

MAIN ANALYSIS
P........................ 6.50
TOTAL DISSOLVED SOLIDS... 6442
CHARGE IMBALANCE (8 DIFF)... 0.2

ANALYSIS IN PPM
AG...... 20.4
AL...... 29.4
NA...... 2080
K...... 3400
CO...... 410

ISOPOES (O/18)
AG...... 19.4
AL...... 0.2
Na...... 0.24
K...... 0.82

QUALIFICATION FIELD . TEMPERATURE MEASURED AT BOTTOM HOLE.

REFERENCE AND IDENTIFICATION
COMPILED BY.............. SILVA, CHRISTOPHER L.
COMPILED AFFILIATION.... U.S. GEOLOGICAL SURVEY
REFERENCE.............. COSNER AND APPS; 19781 PARRY; 19761 PHILLIPS; 19761 WITHAM AND READ; 1976

GEOHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... PHILLIPS 54-3
LOCALITY................... ROOSEVELT HOT SPRINGS KGRA
LOCATION.................... UNITED STATES TOWNSHIP RANGE COORDINATES
COUNTRY.............. UNITED STATES
STATE.................. UTAH
COUNTY............... BEAVER
OTHER LOCALITY INFORMATION: 2210 FT S; 2219 FT W FROM NE CORNER.

SAMPLE DESCRIPTION AND CONDITIONS
SAMPLE NUMBER......... PHILLIPS 54-3B

MAIN ANALYSIS
SPECIFIC GRAVITY........ 1.0
ANALYSIS IN PPM
AG...... 0.09
AL...... 3.5
NA...... 45.0
K...... 9.0
CO...... 0.15

ISOPOES (O/18)
AG...... 18.0
AL...... 19.0
Na...... 0.15
K...... 0.5

REFERENCE AND IDENTIFICATION
COMPILED BY.............. SILVA, CHRISTOPHER L.
COMPILED AFFILIATION.... U.S. GEOLOGICAL SURVEY
REFERENCE.............. COSNER AND APPS; 19781 PARRY; 19761 PHILLIPS; 19761 WITHAM AND READ; 1976
GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE... PHILLIPS 9-1 - PHILLIPS PETROLEUM CO.
KORA.
LOCATION COUNTRY... UNITED STATES
STATE... UTAH
COUNTY... BEAVER
OTHER LOCALITY INFORMATION... 2638 FT E 962 FT S 18 DEGREE W FROM NW CORNER
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C)... 30
WATER ANALYSIS
ANALYSIS IN PPM
R... 2210
HE... 5102
CA... 170
CL... 425

REFERENCE AND IDENTIFICATION
COMPILED BY... SILVA, CHRISTOPHER L
COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE... CUSNER AND APPS, 1976

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GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE... ROOSEVELT HOT SPRINGS
LOCATION COUNTRY... UNITED STATES
STATE... UTAH
COUNTY... BEAVER
GEOLOGIC PROVINCE
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C)... 55
WATER ANALYSIS
ANALYSIS IN PPM
R... 2500
HE... 313
CA... 150
CL... 73

REFERENCE AND IDENTIFICATION
COMPILED BY... RENNKE, J.
COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE... MUNDUNFF, 1970

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GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE... SALT
LOCATION COUNTRY... UNITED STATES
STATE... 265 009W 34 NW OF SE
COUNTY... 112-50.00 N 112-51.24 W
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**GEOünkHM SAMPLE FILE**

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REFERENCE: PETENSEN, 1973

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: SULFENDALE

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: BEAVER
GEOLOGIC PROVINCE: JUE

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION: 1977/07/00
TEMPERATURE (C): 22
WATER ANALYSIS
PSI: 2
ANALYSIS IN MG/L
AL: 84
CR: 84
FG: 93
HE: 490
CA: 134
Na: 5102
NO3: 180
CO2: 86

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: PARRY AND CLEARY, 1978

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: SULLIVAN LAND & LIVESTOCK

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: BEAVER
GEOLOGIC PROVINCE: JUE

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION: 1970/06/17
WATER ANALYSIS
PSI: 7.9
SPECIFIC CONDUCTANCE: 452
TOTAL DISSOLVED SOLIDS: 316
CHARGE IMBALANCE (% DIFF): 3.4
ANALYSIS IN MG/L
AG: 6.4
CO3: 220
CR: 7.4
FG: 1.2
Na: 5102
NO3: 180
CO2: 86

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
NAME OF SAMPLE SOURCE... THERMAL HOT SPRING
LOCATION
COUNTRY.......... UNITED STATES
STATE.......... UTAH
COUNTY.......... HEAVEN
OTHER LOCALITY INFORMATION... SPRING AT SOUTH END OF WESTERNMOST OF TWO PARALLEL N-S TRENDING RIDGES. SPRING ON TUP OF RIDGE.
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C).......... 98.5
DISCHARGE.......... 500 L/MIN
OTHER SAMPLE INFORMATION... SEVERAL SPRINGS AND SEEPS.
WATER ANALYSIS
P-.......... 8
ALKALINITY.......... 360 AS HC03
CHARGE IMBALANCE (% DIFF).......... 0.8
ANALYSIS IN MG/L
AG.*........ 0.003
AL.*.......... 0.003
AS.*........ 0.3
AU.*........ 0.003
Ca.*........ 0.003
Co.*........ 0.003
Co2+........ 84
GAS ANALYSIS
ANALYSIS IN VOLUME %
CH4.*..... 0.01
C2H6.*..... 0.003
N2.*..... 4.8
ISOPIERES (0/0)
DEL O OF WATER........... -118.3
DEL I OF WATER........... -14.12
REFERENCE AND IDENTIFICATION
COMPILED BY............ YESHO, VICTOR
COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE.............. MARINER AND OTHERS, 1977A

NAME OF SAMPLE SOURCE... THERMAL HOT SPRINGS
LOCATION
COUNTRY.......... UNITED STATES
STATE.......... UTAH
COUNTY.......... HEAVEN
GEOLOGIC PROVINCE... HEAVEN
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C).......... 98.5
WATER ANALYSIS
DATE/ANALYST........... 1974/12/00
ANALYSIS

U ........ 71
CA ........ 86
CO ........ 14

REFERENCE AND IDENTIFICATION

COMPILED BY .............. RENNER, J.
COMPILE AFFILIATION ...... U.S. GEOLOGICAL SURVEY
REFERENCE ................. MUNDolf, 1970

GEOHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE ... THERMO HOT SPRINGS
LOCATION
COUNTRY .............. UNITED STATES
STATE .............. UTAH
COUNTY .............. BEAVER
GEOLOGIC PROVINCE ....
SAMPLE DESCRIPTION AND CONDITIONS
DATE/Collector ........ 1939/10/23
TEMPERATURE (C) ....... 85
DISCHARGE .............. nil

WATER ANALYSIS

ANALYSIS IN MG/L
AG .............. CO3 ........ N
H ................ Fe(Tot).
CA .............. MgO .......... 370
CL .............. 224

OTHER ANALYTICAL DATA
HARDNESS = 220
QUALIFICATION FIELD ... DISCHARGE TOTAL FOR 45 OPENINGS

REFERENCE AND IDENTIFICATION

COMPILED BY .............. MURPHY, P.
COMPILE AFFILIATION ...... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE ............... HOWEN AND CONDOVA, 1974

ISOTOPES (10/001)

LAT/LONG ... 38-11.10 N 113-11.88 W
UTH ZONE .... +12
MUTHING .... 4226419.

GEOHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE ... THERMO HOT SPRINGS
LOCATION
COUNTRY .............. UNITED STATES
STATE .............. UTAH
COUNTY .............. BEAVER
GEOLOGIC PROVINCE ....
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C) ....... 60.0
WATER ANALYSIS
TOTAL DISSOLVED SOLIDS ... 1620.
ANALYSIS IN MG/L
AL .............. Ca .............. Mg ........ 11
H .............. Fe(Tot).
BA .............. Fe ................ Na ... 434
HE .............. 1.4
CA .............. 86
MgO .......... 414
CL .............. 234

REFERENCE AND IDENTIFICATION

ISOTOPES (10/001)

LAT/LONG ... 38-10.38 N 113-12.18 W
UTH ZONE .... 12
MUTHING .... 4227047.

HEDM 0037

GEOHERMAL FILE ID 1 01 0017459

GEOHERMAL FILE ID 1 01 0017425

ISOTOPES (10/001)

LAT/LONG ... 38-11.10 N 113-11.88 W
UTH ZONE .... +12
MUTHING .... 4226419.

HEDM 0038

GEOHERMAL FILE ID 1 01 0017459

GEOHERMAL FILE ID 1 01 0017425

ISOTOPES (10/001)

LAT/LONG ... 38-10.38 N 113-12.18 W
UTH ZONE .... 12
MUTHING .... 4227047.
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<td>Utah</td>
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<td>County</td>
<td>Beaver</td>
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**Sample Description and Conditions**

- **Temperature (C)**: 60.0
- **Water Analysis**
  - Fe (Total): 1.0
  - NO3: 504
  - 126
  - Cl: 299

**Reference and Identification**

- **Compiled By**: Goode, H.
- **Compiler Affiliation**: Utah Geological and Mineral Survey
- **Reference**: Lee, 1908

---

**Isotopes (0/00)**

**Mack Analysis**
- **pH**: 7.8
- **Specific Conductance**: 2170
- **Total Dissolved Solids**: 1490
- **Charge Imbalance (%) Diff.**: 2.9

**Analysis in mg/L**
- **Ag**: 9.8
- **Al**: 360
- **Hg**: 0.3
- **Hg**: 0.09
- **Ca**: 72
- **Cl**: 229

**Qualification Field**: Discharge Total for 49 openings.

**Reference and Identification**

- **Compiled By**: Murphy, P.
- **Compiler Affiliation**: Utah Geological and Mineral Survey
- **Reference**: Mower and Cordova, 1974
LOCATION
COUNTRY.............. UNITED STATES
STATE................. UTAH
COUNTY.............. BEAVER
GEOLeIC PROVINCE....

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR...... 1967/07/11
TEMPERATURE (C)...... 76.5

ANALYSIS
P-4.................. 7.7
SPECIFIC CONDUCTANCE... 2130.
TOTAL DISSOLVED SOLIDS... 1480.
CHANGE IMBALANCE (% DIFF).... 0.5
ANALYSIS IN MG/L
AG.. C13.... N
AL.. CR....
B... F... 6.7
BE.. Fe1(Tl).
CA... 75.
CI.. Mg...
CO3.. N

QUALIFICATION FIELD..... S102 PROBABLY SHOULD BE 100.

RECOMMENDATION AND IDENTIFICATION
COMPILED BY............ MURPHY, P.
COMPILED AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............... HOWSON AND CORDOVA; 1974

ISOLOPES (10/091

LOCATION
COUNTRY.............. UNITED STATES
STATE................. UTAH
COUNTY.............. BEAVER
GEOLeIC PROVINCE....

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR...... 1968/05/25
TEMPERATURE (C)...... 78.

ANALYSIS
P-4.................. 7.6
SPECIFIC CONDUCTANCE... 2190.
TOTAL DISSOLVED SOLIDS... 1480.
CHANGE IMBALANCE (% DIFF).... 0.5
ANALYSIS IN MG/L
AG.. C13.... N
AL.. CR....
B... F... 4.7
BE.. Fe1(Tl).
CA... 75.
CI.. Mg...
CO3.. 359.

ISOLOPES (10/091

COORDINATES
LAT/LONG...... 38.10.38 N 113.12.30 W
UTM ZONE...... +12
NORTHING...... 4227142.

CO
K

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HUMPHREY and CORDOVA, 1974

GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE: THERMU HOT SPRINGS
LOCALITY: TOWNHIPS-RANGE
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: LEWIS
GEOLOGIC PROVINCE: WEAVER
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1963/08/21
MAECH ANALYSIS
PH: 8.6
SPECIFIC CONDUCTANCE: 2100.
TOTAL DISSOLVED SOLIDS: 1460.
CHARGE IMBALANCE (% DIFF): 1.6
ANALYSIS IN MG/L
AG: 16
CO3: 9.2
Mg: 367
Na: 502
K: 40
Cl: 1.1
ISOPIES (O/00)

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HUMPHREY, 1970

GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE: THERMU HOT SPRINGS
LOCALITY: TOWNHIPS-RANGE
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: LEWIS
GEOLOGIC PROVINCE: WEAVER
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1963/08/21
MAECH ANALYSIS
PH: 8.1
SPECIFIC CONDUCTANCE: 2120.
TOTAL DISSOLVED SOLIDS: 1500.
CHARGE IMBALANCE (% DIFF): 4.8
ANALYSIS IN MG/L
AG: 16
CO3: 9.7
Mg: 358
Na: 502
K: 40
Cl: 1.1
ISOPIES (O/00)
GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... THERMA HOT SPRINGS

LOCATION
COUNTRY............ UNITED STATES
STATE............. UTAH
COUNTY............ HEAVEN

GEOLOGIC PROVINCE...

SAMPLE DESCRIPTION AND CONDITIONS
DATE/RECOLLECTION... 1963/08/21
TEMPERATURE (C)....... 57.6

WATER ANALYSIS
PH................... 8.1
SPECIFIC CONDUCTANCE... 2120.
TOTAL DISSOLVED SOLIDS... 1560.
CHARGE IMBALANCE (% DIFF)... 4.9

ANALYSIS IN MG/L
Ag........ 0.0
Ca........ 8.3
Co........ 0.0
Cr........ 0.0
Fe........ 0.13
K........ 2.19
Mg........ 9.7
Na........ 360.
Ni........ 110.
NO3........ 1.0

QUALIFICATION FIELD... REPORTED TEMPERATURE IS GENERAL SPRING TEMPERATURE. NO SAMPLE TEMPERATURE.

REFERENCE AND IDENTIFICATION
COMPILED BY............ GOODE, H.
COMPILER AFFILIATION.... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.............. MOWRER AND CORDOVA; 1974

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... TOWN OF MINERSVILLE

LOCATION
COUNTRY............ UNITED STATES
STATE............. UTAH
COUNTY............ HEAVEN

GEOLOGIC PROVINCE...

SAMPLE DESCRIPTION AND CONDITIONS
DATE/RECOLLECTION... 1942/06/27
TEMPERATURE (C)....... 33.5
WELL DEPTH (M)......... 22.

WATER ANALYSIS
PH................... 7.7
SPECIFIC CONDUCTANCE... 1460.
TOTAL DISSOLVED SOLIDS... 1030.
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### REFERENCES AND IDENTIFICATION

**Sample Name:** GeoTherm Sample File

**Location:** Name of Sample Source: Town, Milton

**Country:** United States
**State:** Utah
**County:** Beaver
**Geologic Province:** JS

**Sample Description and Conditions:** Date/Collector: 1954/10/17
**Temperature (°C):** 25.5
**Well Depth (ft):** 162
**Discharge (L/min):** 2320

**Analysis:**

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**Sample Name:** GeoTherm Sample File

**Location:** Name of Sample Source: U.S. Bureau of Land Management, Thermo

**Country:** United States
**State:** Utah
**County:** Beaver
**Geologic Province:** JS

**Sample Description and Conditions:** Date/Collector: 1954/10/17
**Temperature (°C):** 75.0

**Analysis:**

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**Sample Name:** GeoTherm Sample File

**Location:** Name of Sample Source: U.S. Bureau of Land Management, Thermo

**Country:** United States
**State:** Utah
**County:** Beaver
**Geologic Province:** JS

**Sample Description and Conditions:** Date/Collector: 1954/10/17
**Temperature (°C):** 75.0

**Analysis:**

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OTHER SAMPLE INFORMATION.. TEMP ON 8/9/62

WATER ANALYSIS

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QUALIFICATION FIELD.. TEMPERATURE MEASURED 8/9/62.

REFERENCE AND IDENTIFICATION

COMPILED BY.. GOODE, H.

COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY

REFERENCE..... SANDH cro., 1963

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED SPRING

LOCATION

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WATER ANALYSIS

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REFERENCE AND IDENTIFICATION

COMPILED BY.. GOODE, H.

COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY

REFERENCE..... LEE, 1968

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... US ULM

LOCATION

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SAMPLE DESCRIPTION AND CONDITIONS

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ISOLOPES (0/00)

ISOLOPES 0/00

ISOLOPES 0/00

ISOLOPES 0/00
WATER ANALYSIS
PH: 8.2
SPECIFIC CONDUCTANCE: 360.
TOTAL DISSOLVED SOLIDS: 253.
CHARGE IMBALANCE (%) DIFF: 9.6
ANALYSIS IN MG/L

AG.... 205
AL.... 0.10
CA.... 7.2
CL.... 0.4
CO3.... 2.3
CR.... 0.9
F.... 0.9
Fe(TOT)... 0.9
K.... 117
Mg.... 1.2
Na.... 65
NO3.... 0.6
SiO2.... 40

REFERENCE AND IDENTIFICATION
COMPILED BY: HURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MOWER AND CORDOVA, 1974

GEOHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: WALKER, T. E.
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: BEAVER
TOWNSHIP-RANGE: 26S 010W 19 SE OF NE
COORDINATES
LAT/LONG: 39.21.90 N 113.14 E
UTM ZONE: +12
NORTHING: 424037.

PH: 8.3
SPECIFIC CONDUCTANCE: 1390.
TOTAL DISSOLVED SOLIDS: 1620.
CHARGE IMBALANCE (%) DIFF: 4.4
ANALYSIS IN MG/L

AG.... 205
AL.... 0.10
B.... 0.47
Ca.... 10.
Cl.... 9.
CO3.... 0.5
CR.... 1.4
F.... 1.4
Fe(TOT)... 1.4
K.... 25.
Mg.... 4.1
Na.... 160
SiO2.... 14
NO3.... N

REFERENCE AND IDENTIFICATION
COMPILED BY: HURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY.
REFERENCE: MOWER AND CORDOVA, 1974

GEOHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: WALKER, T. E.
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: BEAVER
TOWNSHIP-RANGE: 26S 010W 19 SE OF NE
COORDINATES
LAT/LONG: 39.21.90 N 113.14 E
UTM ZONE: +12
NORTHING: 424037.
GEOLOGY PROVINCE: 35
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1950/11/03
TEMPERATURE (°C): 25.9
WELL DEPTH (M): 79
DISCHARGE: 23
WATER ANALYSIS
PH: 7.8
SPECIFIC CONDUCTANCE: 328
TOTAL DISSOLVED SOLIDS: 211
ANALYSIS IN MG/L

ISOPODS 10/001

COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HOWELL AND CORDOVA, 1974

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: WILLOW
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: WEAVER
GEOLOGIC PROVINCE: 35
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1950/11/03
TEMPERATURE (°C): 21.5
WATER ANALYSIS
PH: 8.0
SPECIFIC CONDUCTANCE: 730
TOTAL DISSOLVED SOLIDS: 475
CHARGE IMBALANCE (% UFF): 0.9
ANALYSIS IN MG/L

ISOPODS 10/001

COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HOWELL AND CORDOVA, 1974

GEOTHERM FILE L01 001/455

GEOLOGY PROVINCE: 35
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1950/11/03
TEMPERATURE (°C): 25.9
WELL DEPTH (M): 79
DISCHARGE: 23
WATER ANALYSIS
PH: 7.8
SPECIFIC CONDUCTANCE: 328
TOTAL DISSOLVED SOLIDS: 211
ANALYSIS IN MG/L

ISOPODS 10/001

COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HOWELL AND CORDOVA, 1974

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| TEMPERATURE (C) | 26 |

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COUNTY: BOX ELDER

GEOTHEM SAMPLE FILE
NAME OF SAMPLE SOURCE: CANTON: L. G.

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: BOX ELDER

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1966/06/17
TEMPERATURE (C): 25
DISCHARGE: E 19

WATER ANALYSIS
PH: 8
SPECIFIC CONDUCTANCE: 482
TOTAL DISSOLVED SOLIDS: 274
CHANGE IMBALANCE (% DIFF): 0.3
ANALYSIS IN mg/L
Ag++ CO3 2- N
Al+++ CR++
H++ 0.01 Fe(III)
Na++ FETO
Ca++ 39 HCO3-
Cl- 65 K++

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: RAYKER, 1974

ISOPODES (1974)

COORDINATES
LAT/LONG: 41-49.50 N 113-15.00 W
UTM ZONE: 12
NORTHING: 4632642
312319

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: RAYKER, 1971

GEOCHEM SAMPLE FILE
NAME OF SAMPLE SOURCE: CANTON: L. G.

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: BOX ELDER

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1966/06/17
TEMPERATURE (C): 25
DISCHARGE: E 19

WATER ANALYSIS
PH: 8
SPECIFIC CONDUCTANCE: 482
TOTAL DISSOLVED SOLIDS: 274
CHANGE IMBALANCE (% DIFF): 0.3
ANALYSIS IN mg/L
Ag++ CO3 2- N
Al+++ CR++
H++ 0.01 Fe(III)
Na++ FETO
Ca++ 39 HCO3-
Cl- 65 K++

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: RAYKER, 1974

ISOPODES (1974)

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NORTHING: 4632642
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COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: RAYKER, 1971
GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... CANTER, W. R.
LOCATION
COUNTRY.......... UNITED STATES
STATE.......... UTAH
COUNTY.......... BOX ELER
GEOLOGIC PROVINCE...
SAMPLE DESCRIPTION AND CONDITIONS
DATE/RECOLLECTION 1966/06/17
POINT OF COLLECTION SAMPLED AT POND
TEMPERATURE (C) 21°
WATER ANALYSIS
PH.................. 8.1
SPECIFIC CONDUCTANCE... 491
TOTAL DISSOLVED SOLIDS... 292
CHARGE IMBALANCE (% DIFF)... 0.2
ANALYSIS IN MG/L
AG....
AL....
Na....
Ca....
Mg....
Cl....
CO3....
CH....
F....
Fe(Ti)....
Mn....
NO3....
HC03....
ISOLOPS (O/DO)
REFERENCE AND IDENTIFICATION
COMPILED BY...... HUGUEY, P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE......... UTAH GEOLOGICAL AND MINERAL SURVEY

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... CHESAPEAKE DUCK CLUB
LOCATION
COUNTRY.......... UNITED STATES
STATE.......... UTAH
COUNTY.......... BOX ELER
GEOLOGIC PROVINCE...
SAMPLE DESCRIPTION AND CONDITIONS
DATE/RECOLLECTION 1971/08/06
TEMPERATURE (C) 42.0
WELL DEPTH (M) 152
DISCHARGE 189. L/MIN
OTHER SAMPLE INFORMATION FROM POOL, PRODUCES GAS
WATER ANALYSIS
SPECIFIC CONDUCTANCE... 5500
REFERENCE AND IDENTIFICATION
COMPILED BY...... JOHNSON, M.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE......... BJORKLUND AND MCGREEVY, 1973
GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE: CHESAPEAKE DUCK CLUB
LOCATION: UNITED STATES 06N 063W 27 SE OF SW
COORDINATE:
LAT/LONG: 41-34.47 N 112-10.02 W
UTM ZONE: 12
NORTHING: 4602991

DATE/collector: 1953/08/21
TEMPERATURE (C): 74.0
WELL DEPTH (M): 153.
DISCHARGE: 151. L/MIN
OTHER SAMPLE INFORMATION: PLUGGED PRODUCED GAS
WATER ANALYSIS
SPECIFIC CONDUCTANCE: 5300.
TOTAL DISSOLVED SOLIDS: 3350.
CHARGE IMBALANCE (% UIFF): 6.5
ANALYSIS IN MG/L
AG: 0.01
AL: 0.01
CR: 0.01
mg: 62.
NA: 1000.
NO3: 504.
PH: 7.7
ISOTOPES (10/001)

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE: COMPTON
LOCATION: UNITED STATES 06N 005W 21 NE OF NE
COORDINATE:
LAT/LONG: 41-14.28 N 112-24.78 W
UTM ZONE: 12
NORTHING: 4565928.

DATE/collector: 1967/03/16
TEMPERATURE (C): 21.0
DISCHARGE: 159. L/MIN
WATER ANALYSIS
SPECIFIC CONDUCTANCE: 2660.
TOTAL DISSOLVED SOLIDS: 1520.
CHARGE IMBALANCE (% UIFF): 1.3
ANALYSIS IN MG/L
AG: 0.12
AL: 0.4
CR: 0.01
mg: 36.
NA: 440.
NO3: 504.
PH: 7.7
ISOTOPES (10/001)

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE: BOX ELDER
LOCATION: UNITED STATES 06N 005W 21 NE OF NE
COORDINATE:
LAT/LONG: 41-14.28 N 112-24.78 W
UTM ZONE: 12
NORTHING: 4565928.
CA..... 81
CL..... 75
HCO3..... 242
H2CO3..... 7.8

REFERENCE AND IDENTIFICATION
COMPILER BY: GOODE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: NCOV, 1972

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE: COYOTE WARM SPRING
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: BOX ELDER
GEOLOGIC PROVINCE: 35
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1970/11/27
TEMPERATURE (C): 21.5
WATER ANALYSIS
pH: 7.5
SPECIFIC CONDUCTANCE: 2800
CHANGE IN BALANCE (% DIFF): 1.8
ANALYSIS IN mg/L
AL: 72.0
Ca: 249.0
Cl: 68.0
HCO3: 242.0
K: 7.8
NA: 420.0
SiO2: 16.0
SiO4: 504.0

REFERENCE AND IDENTIFICATION
COMPILER BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: NCOV, 1972

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE: COYOTE WARM SPRING
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: BOX ELDER
GEOLOGIC PROVINCE: 35
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1968/05/28
TEMPERATURE (C): 43.5
WATER ANALYSIS
pH: 7.6
SPECIFIC CONDUCTANCE: 5590
TOTAL DISSOLVED SOLIDS: 3240
CHANGE IN BALANCE (% DIFF): 1.2
ANALYSIS IN mg/L
AL: 31.0
Ca: 100.0
Cl: 72.0
HCO3: 75.0
K: 1.0

REFERENCE AND IDENTIFICATION
COMPILER BY: GOODE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: NCOV, 1972
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**Geothermal Sample File**

(compilation details omitted for brevity)
GEOLOGIC PROVINCE: 35
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1951/10/27
TEMPERATURE (C): 55.5
OTHER SAMPLE INFORMATION: OTHER ANALYSIS AVAILABLE
MASS ANALYSIS
SPECIFIC CONDUCTANCE: 58600.
TOTAL DISSOLVED SOLIDS: 43500.
CHARGE IMBALANCE (% DIFF): 2.5
ANALYSIS IN MG/L
Na: 230.
K: 15000.
Mg: 5102.
Ca: 32.
Cl: 839.
MgO3: 479.
ISOPTES (1/001)
REFERENCE AND IDENTIFICATION
COMPILED BY: MOODIE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: BJORKLUND AND McGREGORY: 1973

GEOHEM. SAMPLE FILE
NAME OF SAMPLE SOURCE: CRYSTAL (MADSEN'S) HOT SPRING
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: BOX ELDER
GEOLOGIC PROVINCE: 35
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1953/02/06
MASS ANALYSIS
SPECIFIC CONDUCTANCE: 56400.
ANALYSIS IN MG/L
Na: 504.
K: 480.
Ca: 68.
ISOPTES (1/001)
REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MUNDONOFF: 1970

GEOHEM. SAMPLE FILE
NAME OF SAMPLE SOURCE: CRYSTAL (MADSEN'S) HOT SPRING
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: BOX ELDER
GEOLOGIC PROVINCE: 35
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1952/02/06
TEMPERATURE (C): 91.1
MASS ANALYSIS
SPECIFIC CONDUCTANCE: 58600.
TOTAL DISSOLVED SOLIDS: 43500.
CHARGE IMBALANCE (% DIFF): 2.5
ANALYSIS IN MG/L
Na: 230.
K: 15000.
Mg: 5102.
Ca: 32.
Cl: 839.
MgO3: 479.
ISOPTES (1/001)
REFERENCE AND IDENTIFICATION
COMPILED BY: MOODIE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: BJORKLUND AND McGREGORY: 1973

GEOHEM. SAMPLE FILE
NAME OF SAMPLE SOURCE: CRYSTAL (MADSEN'S) HOT SPRING
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: BOX ELDER
GEOLOGIC PROVINCE: 35
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1951/10/27
TEMPERATURE (C): 55.5
OTHER SAMPLE INFORMATION: OTHER ANALYSIS AVAILABLE
MASS ANALYSIS
SPECIFIC CONDUCTANCE: 58600.
TOTAL DISSOLVED SOLIDS: 43500.
CHARGE IMBALANCE (% DIFF): 2.5
ANALYSIS IN MG/L
Na: 230.
K: 15000.
Mg: 5102.
Ca: 32.
Cl: 839.
MgO3: 479.
ISOPTES (1/001)
REFERENCE AND IDENTIFICATION
COMPILED BY: MOODIE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: BJORKLUND AND McGREGORY: 1973
### Geothermal Sample File

#### Name of Sample Source
Crystal (Madness) Hot Spring

#### Location
- **Country:** United States
- **State:** Utah
- **County:** Box Elder
- **Geologic Province:** 35

#### Sample Description and Conditions
**Date/Collector:** 1971/11/18

#### Water Analysis
**Total Dissolved Solids:** 45500 mg/L

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<th>mg/L</th>
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#### Reference and Identification
**Compiled by:** Murphy, P.
**Compiler Affiliation:** Utah Geological and Mineral Survey
**Reference:** Mundonff, 1970

### Geothermal Sample File

#### Name of Sample Source
Cutler Warm Spring

#### Location
- **Country:** United States
- **State:** Utah
- **County:** Box Elder

#### Sample Description and Conditions
**Date/Collector:** 1971/02/02
**Temperature (°C):** 23
**pH:** 7.6
**Specific Conductance:** 3670 us/cm
**Total Dissolved Solids:** 2100 mg/L
**Charge Imbalance (% Diff):** 1.1

#### Water Analysis

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#### Reference and Identification
**Compiled by:** Murphy, P.
**Compiler Affiliation:** Utah Geological and Mineral Survey
**Reference:** Mundonff, 1970
GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... DAVIS I

LOCATION
COUNTRY............ UNITED STATES
STATE............... UTAH
COUNTY............. BOX ELDER

GEOLOGIC PROVINCE...

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1974/06/00
TEMPERATURE (C)..... 107.0
WELL DEPTH (M)....... 3314.
DISCHARGE........... 23., L/MIN

WATER ANALYSIS
TOTAL DISSOLVED SOLIDS... 850.00.

REFERENCE AND IDENTIFICATION
COMPILED BY.......... MURPHY, P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............ 1973

RECNUM 00073

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... HANNA GARY

LOCATION
COUNTRY............ UNITED STATES
STATE............... UTAH
COUNTY............. BOX ELDER

GEOLOGIC PROVINCE...

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1970/06/00
TEMPERATURE (C)..... 20.5
WELL DEPTH (M)....... 110.
DISCHARGE........... 7572.

OTHER SAMPLE INFORMATION:

REFERENCE AND IDENTIFICATION
COMPILED BY.......... MURPHY, P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............ RACKER, 1974

RECNUM 00074

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... HEAD SPRING

LOCATION
COUNTRY............ UNITED STATES
STATE............... UTAH
COUNTY............. BOX ELDER

GEOLOGIC PROVINCE...

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1970/06/00
TEMPERATURE (C)..... 20.5
WELL DEPTH (M)....... 110.
DISCHARGE........... 7572.

REFERENCE AND IDENTIFICATION
COMPILED BY.......... MURPHY, P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............ 1974

RECNUM 00075

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... DAVIS I

LOCATION
COUNTRY............ UNITED STATES
STATE............... UTAH
COUNTY............. BOX ELDER

GEOLOGIC PROVINCE...

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1974/06/00
TEMPERATURE (C)..... 107.0
WELL DEPTH (M)....... 3314.
DISCHARGE........... 23., L/MIN

WATER ANALYSIS
TOTAL DISSOLVED SOLIDS... 850.00.

REFERENCE AND IDENTIFICATION
COMPILED BY.......... MURPHY, P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............ 1973

RECNUM 00073

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... HANNA GARY

LOCATION
COUNTRY............ UNITED STATES
STATE............... UTAH
COUNTY............. BOX ELDER

GEOLOGIC PROVINCE...

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1970/06/00
TEMPERATURE (C)..... 20.5
WELL DEPTH (M)....... 110.
DISCHARGE........... 7572.

OTHER SAMPLE INFORMATION:
THIS WELL APPARENTLY 9BD8 IN TP-25.

REFERENCE AND IDENTIFICATION
COMPILED BY.......... MURPHY, P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............ RACKER, 1974

RECNUM 00074

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... HEAD SPRING

LOCATION
COUNTRY............ UNITED STATES
STATE............... UTAH
COUNTY............. BOX ELDER

GEOLOGIC PROVINCE...

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1970/06/00
TEMPERATURE (C)..... 20.5
WELL DEPTH (M)....... 110.
DISCHARGE........... 7572.

REFERENCE AND IDENTIFICATION
COMPILED BY.......... MURPHY, P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............ 1974

RECNUM 00075
STATE: UTAH
COUNTY: BOX ELDER
GEOLOGIC PROVINCE: 35
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1970/09/25
TEMPERATURE (C): 25.0
GEOLOGY: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HOOD, 1971

GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE: JEPPESEN
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: BOX ELDER
GEOLOGIC PROVINCE: 35
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1970/09/25
TEMPERATURE (C): 25.0
GEOLOGY: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HOOD, 1971

PH: 7.7
SPECIFIC CONDUCTANCE: 1710.0
TOTAL DISSOLVED SOLIDS: 10800.0
CHARGE IMBALANCE (% DIFF): 2.1
ANALYSIS IN MG/L
Ag: N
Al: CR
B: F
Ca: Fe(Tot)
Cl: HCO3
CO2: 620
Mg: 45
Na: 3900
HCO3: 452
Cl: 504
N: 8.8
ISO/OPES: 10/01

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HOOD, 1971

ISO/OPES: 10/01
GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE... L. W. KELLER CORP., WELL #2

LOCATION

COUNTRY............ UNITED STATES
STATE................. UTAH
COUNTY.............. BOX ELDER
GEOLOGIC PROVINCE...

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR...... 1971/07/20
TEMPERATURE (C)..... 20.0
WELL DEPTH (M)....... 8.0
DISCHARGE............ 3020. L/MIN

REFERENCE AND IDENTIFICATION
COMPILED BY............ GOODWIN, H.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............. BJORKLUND AND MCGREEVEY, 1973

RECORD 00080
GEOTHERMAL FILE 101 0017650

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE... L. W. KELLER CORP., WELL #2

LOCATION

COUNTRY............ UNITED STATES
STATE................. UTAH
COUNTY.............. BOX ELDER
GEOLOGIC PROVINCE...

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR...... 1972/03/08
TEMPERATURE (C)..... 22.0
WELL DEPTH (M)....... 61.5

WATER ANALYSIS
PH.................... 7.7
SPECIFIC CONDUCTANCE.. 7200.
TOTAL DISSOLVED SOLIDS.. 4050.
CHARGE IMBALANCE (% DIFF).... 1.0

ANALYSIS IN MG/L
AG+++..........
AL+++..........
B+++...........
BE+++..........
CA+++..........
Cl+++..........
CO3+++........
CR+++..........
F+++...........
FE+++..........
Mg++..........
Na+++..........
NO3+++........
NOH+++........
Si+++..........

ISOLOPES (18/18)

REFERENCE AND IDENTIFICATION
COMPILED BY............ HURLEY, P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............. STEPHENS, 1974A

RECORD 00081
GEOTHERMAL FILE 101 0017632

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE... LAKSON, C. D.

LOCATION

COUNTRY............ UNITED STATES
STATE................. UTAH
COUNTY.............. BOX ELDER
GEOLOGIC PROVINCE...

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR...... 1968/06/17

LAT/LONG............ 41-46.20 N 112-10.50 W
UTH ZONE........... 112
NORTHING........... 402339.
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**Point of Collection:**

- **City:** Las Vegas
- **State:** Nevada
- **Country:** United States

**Sample Information:**

- **Sample ID:** 000892
- **Sample Name:** Geothermal File
- **Latitude:** 34° 01' 01.77" N
- **Longitude:** 112° 20' 18.06" W

**Geological Information:**

- **Reference:** UTGEO/7958
- **Borehole:** 12031
- **Collection Date:** 07/15/79

**Chemical Analysis:**

- **Ca**
- **Mg**
- **Fe**
- **K**
- **Na**
- **Cl**
- **SO**
- **CO**
- **NO**
- **SiO**
- **H**

**Geothermal Survey:**

- **Reference:** UTGEO/7958
- **Borehole:** 12031
- **Collection Date:** 07/15/79

**Survey Information:**

- **Latitude:** 34° 01' 01.77" N
- **Longitude:** 112° 20' 18.06" W
- **Depth:** 410 ft
### Geothermal Sample File

**Name of Sample Source**: Lee, J. E.

**Location**
- **Country**: United States
- **State**: Utah
- **County**: Box Elder
- **Geologic Province**:

**Sample Description and Conditions**
- **Date/Collected**: 1967/08/08
- **Well Depth (M)**: 122
- **Discharge**: A850

**WATER ANALYSIS**
- **pH**: 7.3
- **Specific Conductance**: 4700
- **Total Dissolved Solids**: 2640
- **Charge Imbalance (% Diff)**: 2.2

**Analysis in MG/L**
- **Ag**: 0.1
- **Ca**: 369
- **Cl**: 1500
- **CO**: 32
- **Cd**: 0.05
- **Fe**: 144
- **HCO**: 1500
- **Mg**: 92
- **Na**: 452
- **S1O**: 37
- **SO**: 35
- **K**: 12

**REFERENCE AND IDENTIFICATION**
- **Compiled By**: Murphy, P.
- **Compiler Affiliation**: Utah Geological and Mineral Survey
- **Reference**: Baker, 1974

---

**NAME OF SAMPLE SOURCE**: Little Mountain Wash Spring

**Location**
- **Country**: United States
- **State**: Utah
- **County**: Box Elder

**Sample Description and Conditions**
- **Date/Collected**: 1971/11/28
- **Temperature (C)**: 42.0

**COORDINATES**
- **LAT/LONG**: 42° 0.00 N 112° 52.80 W
- **UTM Zone**: 12
- **Northing**: 4651272
- **Easting**: 344298

---

**NAME OF SAMPLE SOURCE**: DOE A-84

**Location**
- **Country**: United States
- **State**: Utah
- **County**: Box Elder

**Sample Description and Conditions**
- **Date/Collected**: 1976/05/18
- **Temperature (C)**: 75.0

**COORDINATES**
- **LAT/LONG**: 41° 53.00 N 112° 30.00 W
- **UTM Zone**: 12
- **Northing**: 4651272
- **Easting**: 344298

---

**NAME OF SAMPLE SOURCE**: Eureka Wash Spring

**Location**
- **Country**: United States
- **State**: Utah
- **County**: Box Elder

**Sample Description and Conditions**
- **Date/Collected**: 1976/05/18
- **Temperature (C)**: 75.0

**COORDINATES**
- **LAT/LONG**: 41° 53.00 N 112° 30.00 W
- **UTM Zone**: 12
- **Northing**: 4651272
- **Easting**: 344298
DISCHARGE............. 1703. L/MIN
WATER ANALYSIS
SPECIFIC CONDUCTANCE...... 51000.
REFERENCE AND IDENTIFICATION
COMPILED BY................. GOODE, H.
COMPILIER AFFILIATION...... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.................. RJORKLUND AND MCGREEVY, 1973

GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE... LITTLE MOUNTAIN WARM SPRING
LOCATION
COUNTRY............. UNITED STATES
STATE............. UTAH
COUNTY............. BOX ELDEN
GEOLOGIC PROVINCE... J5
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION...... 1971/05/11
TEMPERATURE (C)...... 42
WATER ANALYSIS
P-4 (mg/l)........... 7.0
TOTAL DISSOLVED SOLIDS... 37000.
CHARGE IMBALANCE (% DIFF).... 1.6
ANALYSIS IN MG/L
AL.. 0.45
F.. 0.8
K.. 450
Mg.. 230
Na.. 13000
SiO2... 50

ISOTOPES (O/DA)

GEOCHEMICAL ANALYSIS
ISOMORPHISM CONTENT

REFERENCE AND IDENTIFICATION
COMPILED BY................. GOODE, H.
COMPILIER AFFILIATION...... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.................. RJORKLUND AND MCGREEVY, 1973

GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE... NATIONAL PARK SERVICE
LOCATION
COUNTRY............. UNITED STATES
STATE............. UTAH
COUNTY............. BOX ELDEN
GEOLOGIC PROVINCE... J5
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION...... 1971/05/31
WATER TEMPERATURE (C).... 22.5
WELL DEPTH (M)........ 129
DISCHARGE............. 91
WATER ANALYSIS
P..................... 7.6
SPECIFIC CONDUCTANCE.... 1190.
TOTAL DISSOLVED SOLIDS... 847.
ANALYSIS IN MG/L

ISOTOPES (O/DA)
LOCATION
COUNTRY............... UNITED STATES
STATE............... UTAH
COUNTY............... BOX ELDER

SAMPLE DESCRIPTION AND CONDITIONS
DATE/Collector....... 1967/02/02
TEMPERATURE (C)..... 21.5
WELL DEPTH (M)...... 129.

WATER ANALYSIS
PH..................... 7.5
SPECIFIC CONDUCTANCE.... 1190.
TOTAL DISSOLVED SOLIDS.... 852.
CHARGE IMBALANCE (% DIFF)..... 4.6

ANALYSIS IN MG/L
AG.......... CO3........ N
AL.......... CH4........ MG........ 33.
H+......... F.............. 0.8 NA........ 96.
HE........... FE(TF)........ 0.64 NB........ 504.
CA.......... HCO3........ 170.
CL.......... 260.

REFERENCE AND IDENTIFICATION
COMPILER BY........... MURPHY, P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............. HOOD, 1972

ISOTOPES (O/8O)

LOCATION
COUNTRY............... UNITED STATES
STATE............... UTAH
COUNTY............... BOX ELDER

SAMPLE DESCRIPTION AND CONDITIONS
DATE/Collector....... 1978/07/13
TEMPERATURE (C)..... 20.5
WELL DEPTH (M)...... 123.

WATER ANALYSIS
PH..................... 8.4
SPECIFIC CONDUCTANCE.... 1440.
TOTAL DISSOLVED SOLIDS.... 1010.

REFERENCE AND IDENTIFICATION
COMPILER BY........... MURPHY, P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............. HOOD, 1972

ISOTOPES (O/8O)
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### Reference and Identification

Compiled by: Murphy, P.
Compiler affiliation: Utah Geological and Mineral Survey
Reference: Rolke and Price, 1972

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### Geothermal Sample File

**Name of Sample Source**: Poulsen, V. S.

**Location**

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- Date/Collection: 1970/11/28
- Temperature: 20.0
- Discharge: 1136 L/min
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**Other Sample Information - Other Analyses Available**

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**Analysis in mg/l**

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**Reference and Identification**

- **Compiled by**: Murphy, P.
- **Compiler Affiliation**: Utah Geological and Mineral Survey
- **Reference**: Bjorklund and McGreevy, 1973

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**Isotopes 10/04**

---

**Geothermal Sample File**

- **Name of Sample Source**: Stinking Hot Springs
- **Location**: United States 10N 003W 30 SE of SE
- **Coordinates**: LAT/LONG: 41-34.62 N 112-14.10 W
- **Sample Description and Conditions**: Date/Collector: 1952/06/29
- **Temperature (°C)**: 54.1

**Analysis**

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**Reference and Identification**

- **Compiled by**: Murphy, P.
- **Compiler Affiliation**: Utah Geological and Mineral Survey
- **Reference**: Mundolf, 1970

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**Isotopes 10/04**

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**Geothermal Sample File**

- **Name of Sample Source**: Stinking Hot Springs
- **Location**: United States 10N 003W 30 SE of SE
- **Coordinates**: LAT/LONG: 41-34.62 N 112-14.10 W
- **Sample Description and Conditions**: Date/Collector: 1952/06/29
- **Temperature (°C)**: 51.1

**Analysis**

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TOTAL DISSOLVED SOLIDS... 51000.

ANALYSIS IN MG/L

CA... 497.

CL... 2100.

REFERENCE AND IDENTIFICATION

COMPILED BY... MURPHY, P.

COMPILED AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY

REFERENCE... MUNDOFF; 1970

---

LOCATION

COUNTRY...... UNITED STATES
STATE......... UTAH
COUNTY........ BOX ELDER

SAMPLE DESCRIPTION AND CONDITIONS

DATE/RECEIVED... 1952/05/21

TEMPERATURE (°C)... 51.1

WATER ANALYSIS

pH................. 6.3

TOTAL DISSOLVED SOLIDS... 53000.

ANALYSIS IN MG/L

CA... 501.

CL... 2270.

REFERENCE AND IDENTIFICATION

COMPILED BY... MURPHY, P.

COMPILED AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY

REFERENCE... MUNDOFF; 1970

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LOCATION

COUNTRY...... UNITED STATES
STATE......... UTAH
COUNTY........ BOX ELDER

SAMPLE DESCRIPTION AND CONDITIONS

DATE/RECEIVED... 1911/11/18

WATER ANALYSIS

TOTAL DISSOLVED SOLIDS... 30400.

ANALYSIS IN MG/L

CA... 393.

CL... 1850.

REFERENCE AND IDENTIFICATION

COMPILED BY... MURPHY, P.

COMPILED AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY

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COUNTY: HOE ELDER

GEOLOGIC PROVINCE:

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1956/09/05
TEMPERATURE (C): 20.0
WELL DEPTH (M): 19.0
DISCHARGE: 1325 L/MIN

REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: NORD AND PRICE: 1970

---

COUNTY: UNITED STATES
TOWNSHIP-RANGE: 14N 009W 04 SE OF SE

COORDINATES
LAT/LONG: 41-58.64 N 112-52.80 W
UTM ZONE: +12
NORTHING: 4648830
EASTING: 344542

MAJOR ANALYSIS
PH: 7.2

TOTAL DISSOLVED SOLIDS: 921

ANALYSIS IN MG/L

Mg... 35
Ca... 146
HCO3... 186

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: RAKEN: 1974

---

COUNTY: UNITED STATES
TOWNSHIP-RANGE: 15N 009W 29 SE OF NW

COORDINATES
LAT/LONG: 41-59.60 N 112-53.04 W
UTM ZONE: +12
NORTHING: 4651039
EASTING: 344599

MAJOR ANALYSIS
PH: 7.2

TOTAL DISSOLVED SOLIDS: 921

ANALYSIS IN MG/L

Mg... 35
Ca... 146
HCO3... 186

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
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LOCATION
COUNTRY.............. UNITED STATES
STATE............... UTAH
COUNTY.............. BOX ELDER
GEOLOGIC PROVINCE.. 35

TOWNSHIP-RANGE
15N 006W 34 SW OF SW

COORDINATES
LAT/LONG... 41-59.16 N 112-32.16 W
UTH ZONE... +12
NORTHING... 4649149.

WATER ANALYSIS
PH................. 7.9
SPECIFIC CONDUCTANCE 1610.
TOTAL DISSOLVED SOLIDS 938.
CHARGE IMBALANCE (% DIFF.) 15

ANALYSIS IN MG/L
AO........... 0.06
CA........... 1
MG........... 25
NA........... 247
SI02........ 41
F............... 1
CA(+)........ 60
MgO........... 259
NO3........... 0.3
CL........... 379
K........... 5.7

REFERENCE AND IDENTIFICATION
COMPILED BY........... MURPHY, P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............. ROLKE AND PRICE, 1972

ISOTOPES 10/001

LOCATION
COUNTRY.............. UNITED STATES
STATE............... UTAH
COUNTY.............. BOX ELDER
GEOLOGIC PROVINCE.. 35

TOWNSHIP-RANGE
12N 005W 22 NE OF NW

COORDINATES
LAT/LONG... 41-45.42 N 112-23.94 W
UTH ZONE... 12
NORTHING... 4623529.

WATER ANALYSIS
SPECIFIC CONDUCTANCE 889.
QUALIFICATION FIELD... TEMPERATURE MEASURED 50 FT. FROM SOURCE.

REFERENCE AND IDENTIFICATION
COMPILED BY........... GOODF, M.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............. ROLKE AND PRICE, 1972

LOCATION
COUNTRY.............. UNITED STATES
STATE............... UTAH
COUNTY.............. BOX ELDER
GEOLOGIC PROVINCE.. 35

TOWNSHIP-RANGE
13N 003W 11 NE OF NW

COORDINATES
LAT/LONG... 41-57.82 N 112-09.08 W
UTH ZONE... +12
NORTHING... 4646170.
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**GEOLOGIC PROVINCE:** 35

**SAMPLE DESCRIPTION AND CONDITIONS**

**DATE/COLLECTOR:** 1970/09/09

**TEMPERATURE (C):** 29.0

**WELL DEPTH (M):** 103.1

**DISCHARGE:** 197.5 L/MIN

**REFERENCE AND IDENTIFICATION**

**COMPILED BY:** GOODE, M.

**COMPILER AFFILIATION:** UTAH GEOLOGICAL AND MINERAL SURVEY

**REFERENCE:** BJORKLUND AND MCGREEVY; 1973

**RECORD 09110**

**GEOHEM FILE ID 101 0017072**

**RECORD 09111**

**GEOHEM FILE ID 101 0017394**

**RECORD 09112**

**GEOHEM FILE ID 101 0017087**
DATE/COLLECTION: 1971/09/04
TEMPERATURE (C): 48.0
DISCHARGE: 189.27, L/MIN

REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: BJORKLUND AND MCGREEVY, 1973

RECORD 000115
GEOTHERM FILE 101 00171083

GEOTHERM SAMPLE FILE
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: BOX ELDER

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION: 1971/08/31
TEMPERATURE (C): 21.0

WATER ANALYSIS
SPECIFIC CONDUCTANCE: 5500

REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: BJORKLUND AND MCGREEVY, 1973

RECORD 000116
GEOTHERM FILE 101 00171077

GEOTHERM SAMPLE FILE
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: BOX ELDER

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION: 1971/09/13
TEMPERATURE (C): 26.0
DISCHARGE: 7.6, L/MIN

WATER ANALYSIS
SPECIFIC CONDUCTANCE: 17400

REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: BJORKLUND AND MCGREEVY, 1973

RECORD 000117
GEOTHERM FILE 101 00171084

GEOTHERM SAMPLE FILE
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: BOX ELDER

SAMPLE DESCRIPTION AND CONDITIONS
LAT/LONG: 41.2-15.60 W
UTM ZONE: 12
NORTHING: 4613914.395112

REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: BJORKLUND AND MCGREEVY, 1973

RECORD 000118
GEOTHERM FILE 101 00171085
DATE/COLLECTOR.......... 1971/08/31
TEMPERATURE (°C)...... 22.0
DISCHARGE.............. 38. L/MIN
MAFEE ANALYSIS
SPECIFIC CONDUCTANCE..... 7400.
REFERENCE AND IDENTIFICATION
COMPILED BY............... GOODE, H.
COMPILER AFFILIATION.... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............... RJORKLUND AND McGREETY, 1973

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UNNAMED SPRING
LOCATION
COUNTRY............... UNITED STATES
STATE................ UTAH
COUNTY................. BOX ELDER
GEOLOGIC PROVINCE..... J5
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR........ 1971/07/14
TEMPERATURE (°C)...... 20.5
DISCHARGE.............. 3.8
WATER ANALYSIS
pH..................... 8.2
SPECIFIC CONDUCTANCE... 751.
TOTAL DISSOLVED SOLIDS... 477.
ANALYSIS IN MG/L
\(\text{Na}^{+}\)............. 100
\(\text{Cl}^{-}\)............. 250
\(\text{CO}_3^{2-}\)........ 75
\(\text{SO}_4^{2-}\)........ 150
\(\text{Mg}^{2+}\)........... 10
\(\text{Ca}^{2+}\)........... 10
\(\text{Fe}^{3+}\)........... 10
\(\text{Fe}^{2+}\)........... 10
\(\text{K}^{+}\)............. 10
\(\text{NH}_4^{+}\)........... 10
\(\text{HCO}_3^{-}\)........ 75
\(\text{Na}^{+}\)............. 75
\(\text{Cl}^{-}\)............. 75
\(\text{CO}_3^{2-}\)........ 75

QUALIFICATION FIELD..... TEMPERATURE MEASURED AT PIPE 500 FT, BELOW SOURCE.
REFERENCE AND IDENTIFICATION
COMPILED BY............... MURPHY, P.
COMPILER AFFILIATION.... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............... ROLKE AND PRICE, 1972

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UNNAMED SPRING
LOCATION
COUNTRY............... UNITED STATES
STATE................ UTAH
COUNTY................. BOX ELDER
GEOLOGIC PROVINCE..... J5
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR........ 1971/09/13
TEMPERATURE (°C)...... 24.5
DISCHARGE.............. 57. L/MIN
WATER ANALYSIS
SPECIFIC CONDUCTANCE... 46800.
REFERENCE AND IDENTIFICATION
COMPILED BY............... GOODE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: BJORKLUND AND MCGREEVY, 1973

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UNNAMED SPRING
LOCATION
COUNTRY............ UNITED STATES
STATE.............. UTAH
COUNTY............. BOX ELDER
GEOLOGIC PROVINCE. 35

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION..... 1963/10/16
TEMPERATURE (°C)..... 25.
DISCHARGE........... 1.173.

WATER ANALYSIS
SPECIFIC CONDUCTANCE... 34400.
TOTAL DISSOLVED SOLIDS... 24900.
ANALYSIS IN mg/L
Cl... 13100.

REFERENCE AND IDENTIFICATION
COMPILER BY............ NURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MOODY, 1972

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UTAH HOT SPRINGS
WELL/SPRING NUMBER...... (R= 7-2) 14040CA-S1
LOCATION
COUNTRY............ UNITED STATES
STATE.............. UTAH
COUNTY............. BOX ELDER
GEOLOGIC PROVINCE. 35

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION..... 1960/11/03
TEMPERATURE (°C)..... 58.3

WATER ANALYSIS
PH................... 7.5
SPECIFIC CONDUCTANCE... 34800.
TOTAL DISSOLVED SOLIDS... 21600.
ANALYSIS IN ppm
Ag........... 0.051
Al........... 0.004
As........... 0.000
Ca........... 1670.
Cd........... 0.0014
Cl........... 0.00057
Cu........... 0.014
Fe(Tot.)..... 0.00057
F........... 4.3
Li........... 7.9
Mg........... 0.002
Mn........... 3.0
Na........... 6580.
Ni........... 0.00057
N03........... 182.
N02........... 0.00029
O2........... 0.0057
Pb........... 1.1
PO4........... 0.0014
S04........... 0.0014
SiO2........... 0.00057
Sr........... 0.0074
Ti........... 0.0049

ISOTOPES (mg/mg)

RECORD 00120
GEOThERM FILE ID 1 0017638

RECORD 00121
GEOThERM FILE ID 1 0017338
**RECORD 00122**

**LOCATION**
- **COUNTRY**: UNITED STATES
- **STATE**: UTAH
- **COUNTY**: BOX ELDER
- **GEOLOGIC PROVINCE**: 35

**SAMPLE DESCRIPTION AND CONDITIONS**
- **DATE/COLLECTOR**: 1968/05/16
- **TEMPERATURE (C)**: 42.0
- **DISCHARGE**: 852 L/MIN

**WATER ANALYSIS**
- **pH**: 7.5
- **SPECIFIC CONDUCTANCE**: 373 μS/cm
- **TOTAL DISSOLVED SOLIDS**: 248 mg/L

**ANALYSIS IN MG/L**
- **Ag**: N
- **Cl**: 0.2
- **Ca**: 0.4
- **CO₃**: 14
- **HCO₃**: 184
- **Fe**: N
- **Fe(II)**: N
- **K**: N
- **Mg**: N
- **Na**: N
- **NO₃**: 0.2

**REFERENCE AND IDENTIFICATION**
- **DEPT**: GEOLOGY, UAH GEOLOGICAL AND MINERAL SURVEY
- **REFERENCE**: MUDD AND PRICE 1970

---

**RECORD 00123**

**LOCATION**
- **COUNTRY**: UNITED STATES
- **STATE**: UTAH
- **COUNTY**: BOX ELDER
- **GEOLOGIC PROVINCE**: 35

**SAMPLE DESCRIPTION AND CONDITIONS**
- **DATE/COLLECTOR**: 1968/11/07
- **TEMPERATURE (C)**: 20
- **DISCHARGE**: 1461 l/min

**WATER ANALYSIS**
- **pH**: 7.0
- **SPECIFIC CONDUCTANCE**: 860 μS/cm
- **TOTAL DISSOLVED SOLIDS**: 501 mg/L

**ANALYSIS IN MG/L**
- **Ag**: N
- **Cl**: 0.2
- **Ca**: 0.4
- **CO₃**: 14
- **HCO₃**: 184
- **Fe**: N
- **Fe(II)**: N
- **K**: N
- **Mg**: N
- **Na**: N
- **NO₃**: 0.2

**REFERENCE AND IDENTIFICATION**
- **DEPT**: GEOLOGY, UAH GEOLOGICAL AND MINERAL SURVEY
- **REFERENCE**: MUDD AND PRICE 1970
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**Sample Analysis**

- **Isotopes** (02/01)

**Geothermal Sample File**

**Name of Sample Source**

- Wells & Larkin

**Location**

- United States
- Utah
- Box Elder

**Sample Description and Conditions**

- Date/Collect: 1968/11/20
- Temperature: 2.4
- Well Depth (m): 238

**Sample Analysis**

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**Reference and Publication**

- Murphy, P.
- Utah Geological and Mineral Survey
- Hood, 1971

**Reference and Identification**

- Murphy, P.
- Utah Geological and Mineral Survey
- Hood, 1971

**Reference and Publication**

- Murphy, P.
- Utah Geological and Mineral Survey
- Hood, 1971
PH............................ 7.9
SPECIFIC CONDUCTANCE...... 1480.
TOTAL DISSOLVED SOLIDS..... 866.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION........ UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE....................... BOLKE AND WADDELL 1972A

PHYSICAL DATA

LOCATION

COUNTRY................. UNITED STATES
STATE................. UTAH
COUNTY................. BOX ELDER
GEOLOGIC PROVINCE...... 35

SAMPLE DESCRIPTION AND CONDITIONS

DATE/Collectoon......... 1965/09/13
TEMPERATURE (C)........ 20.
WELL DEPTH (M).......... 173.
DISCHARGE.............. 45.

WATER ANALYSIS

PH............................ 7.2
SPECIFIC CONDUCTANCE...... 3120.
TOTAL DISSOLVED SOLIDS..... 1980.
CHARGE IMBALANCE (S DIFF).... 0.7

REFERENCES AND IDENTIFICATION

COMPILER AFFILIATION........ UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE....................... BOLKE AND WADDELL 1972A

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION........ UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE....................... BOLKE AND WADDELL 1972A

ISOPTES (10/00)

ISOPTES (10/00)

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE........ WILLAND BAY GUN CLUB
LOCATION

COUNTRY................. UNITED STATES
STATE................. UTAH
COUNTY................. BOX ELDER
GEOLOGIC PROVINCE...... 35

SAMPLE DESCRIPTION AND CONDITIONS

DATE/Collectoon......... 1965/09/13
TEMPERATURE (C)........ 20.
WELL DEPTH (M).......... 173.
DISCHARGE.............. 45.

WATER ANALYSIS

PH............................ 7.2
SPECIFIC CONDUCTANCE...... 3120.
TOTAL DISSOLVED SOLIDS..... 1980.
CHARGE IMBALANCE (S DIFF).... 0.7

REFERENCES AND IDENTIFICATION

COMPILER AFFILIATION........ UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE....................... BOLKE AND WADDELL 1972A

REFERENCES AND IDENTIFICATION

COMPILER AFFILIATION........ UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE....................... BOLKE AND WADDELL 1972A

ISOPTES (10/00)

ISOPTES (10/00)

ISOPTES (10/00)
GEOLOGIC PROVINCE.. 35
MAP REFERENCE.... SMITHFIELD 1124000
OTHER LOCALITY INFORMATION. ELEVATION = 4473 FT.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1967/08/00
TEMPERATURE (C).... 23.0
WELL DEPTH (M)..... 40.2
DISCHARGE.......... 117.3 L/MIN
PERTINENT LITOMOLOGY.. AQUIFER IN QUATERNARY GRAVEL.
OTHER SAMPLE INFORMATION. WELL DRILLED 1959 FOR NATURAL FLOW IRIGATION USE.

WATER ANALYSIS
SPECIFIC CONDUCTANCE.... 560.

REFERENCE AND IDENTIFICATION
COMPILERS... GOODE, H.
COMPILERS AFFILIATION.. UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.................. McGREEVY AND BJORKLUND, 1970

RECORD 00128

GEOTERM SAMPLE FILE
NAME OF SAMPLE SOURCE... BENSON IRRIGATION COMPANY WELL
WELL/SPRING NUMBER.... 12N-01E-17-DAB

LOCATION
COUNTRY............ UNITED STATES
STATE............... UTAH
COUNTY............. CACHE
GEOLOGIC PROVINCE.. 35
MAP REFERENCE.... SMITHFIELD 1124000
OTHER LOCALITY INFORMATION. ELEVATION = 4473 FT.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1967/08/00
TEMPERATURE (C).... 21.0
WELL DEPTH (M)..... 48.0
DISCHARGE.......... 219.5 L/MIN
PERTINENT LITOMOLOGY.. AQUIFER IN QUATERNARY SAND AND GRAVEL.
OTHER SAMPLE INFORMATION. WELL DRILLED 1942 FOR NATURAL FLOW IRIGATION USE.

WATER ANALYSIS
SPECIFIC CONDUCTANCE.... 480.

REFERENCE AND IDENTIFICATION
COMPILERS... GOODE, H.
COMPILERS AFFILIATION.. UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.................. McGREEVY AND BJORKLUND, 1970

RECORDER 00129

GEOTERM SAMPLE FILE
NAME OF SAMPLE SOURCE... BENSON IRRIGATION COMPANY WELL
WELL/SPRING NUMBER.... 12N-01E-16-CAC

LOCATION
COUNTRY............ UNITED STATES
STATE............... UTAH
COUNTY............. CACHE
GEOLOGIC PROVINCE.. 35
MAP REFERENCE.... SMITHFIELD 1124000
OTHER LOCALITY INFORMATION. ELEVATION = 4454 FT.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION........ 1967/06/00
TEMPERATURE (°C)....... 21.0
WELL DEPTH (M)......... 14.6
DISCHARGE............... 87.1 L/MIN
PERTINENT LITHOLOGY.... AQUIFER IN QUATERNARY GRAVEL
OTHER SAMPLE INFORMATION... WELL DRILLED 1929; NATURAL FLOW; IRRIGATION USE.
WAVER ANALYSIS
SPECIFIC CONDUCTANCE.... 590
REFERENCE AND IDENTIFICATION
COMPILED BY............ GOODE, M.
COMPILER AFFILIATION.... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE................ MCGEENY AND BJORKLUND, 1970

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... RENSON IRRIGATION COMPANY WELL
WELL/SPRING NUMBER...... 12N-016-16-COH
LOCATION
COUNTRY............... UNITED STATES
STATE............... UTAH
COUNTY............... Cache
GEOLOGIC PROVINCE... Wasatch Uplift
MAP REFERENCE......... Smithfield 1124000
OTHER LOCALITY INFORMATION: ELEVATION = 4453 FT.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR.......... 1968/06/00
TEMPERATURE (°C)....... 21.0
WELL DEPTH (M)......... 14.6
DISCHARGE............... 87.1 L/MIN
PERTINENT LITHOLOGY.... AQUIFER IN QUATERNARY GRAVEL
OTHER SAMPLE INFORMATION... WELL DRILLED 1929; NATURAL FLOW; IRRIGATION USE.
WAVER ANALYSIS
SPECIFIC CONDUCTANCE.... 590
REFERENCE AND IDENTIFICATION
COMPILED BY............ GOODE, M.
COMPILER AFFILIATION.... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE................ MCGEENY AND BJORKLUND, 1970
PERTINENT LITHOLOGY: AQUIFER IN QUATERNARY GRAVEL.
OTHER SAMPLE INFORMATION: WELL DRILLED 1959; NATURAL FLOW DOMESTIC USE.
WATER ANALYSIS:
SPECIFIC CONDUCTANCE: 4900
REFERENCE AND IDENTIFICATION:
COMPILER: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MCGREEVY AND BJORKLUND, 1970

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: BROWN, N. WELL
WELL SPRING NUMBER: 13N-01W-10-ABCD
LOCATION:
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: Cache
GEOLOGIC PROVINCE: 36
MAP REFERENCE: TRENTON 1124000
OTHER LOCALITY INFORMATION: ELEVATION = 4423 FT.
SAMPLE DESCRIPTION AND CONDITIONS:
DATE/COLLECTOR: 1968/04/17
TEMPERATURE (°C): 49
WELL DEPTH (M): 1587.4
DISCHARGE: 56.8
PERTINENT LITHOLOGY: AQUIFER IN PALEozoIC OR PRECAMBRIAN ROCKS.
OTHER SAMPLE INFORMATION: WELL DRILLED 1957; NATURAL FLOW IRRIGATION USE.
WATER ANALYSIS:
DATE/ANALYST: U.S. GEOLOGICAL SURVEY
SPECIFIC CONDUCTANCE: 5820
TOTAL DISSOLVED SOLIDS: 3280
ANALYSIS IN MG/L:
ISOTOPES (O/18)

REFERENCE AND IDENTIFICATION:
COMPILER: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MCGREEVY AND BJORKLUND, 1970

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: Cache Valley Dairy Well
WELL SPRING NUMBER: 13N-01E-19-CAC
LOCATION:
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: Cache
GEOLOGIC PROVINCE: 36
OTHER LOCALITY INFORMATION: ELEVATION = 4265
SAMPLE DESCRIPTION AND CONDITIONS:
DATE/COLLECTOR: 1968/04/17
TEMPERATURE (°C): 49
WELL DEPTH (M): 1587.4
DISCHARGE: 56.8
PERTINENT LITHOLOGY: AQUIFER IN PALEozoIC OR PRECAMBRIAN ROCKS.
OTHER SAMPLE INFORMATION: WELL DRILLED 1957; NATURAL FLOW IRRIGATION USE.
MAP REFERENCE: NEWTON 1124000
OTHER LOCALITY INFORMATION: ELEVATION = 4446 FT.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1961/07/09
TEMPERATURE (°C): 21
WELL DEPTH (M): 1676.4
DISCHARGE: 283.9
PERTINENT Lithology: ADUER IN TERTIARY CONGLOMERE.
OTHER SAMPLE INFORMATION: WELL DRILLED 1961 NATURAL FLOW INDUSTRIAL USE.

WATER ANALYSIS
DATE/ANALYST: U.S. GEOLOGICAL SURVEY
SPECIAL CONDUCTANCE: 1480.
TOTAL DISSOLVED SOLIDS: 709.

ANALYSIS IN MG/L
AG+++ 0.4  M
CR+++ 0.4  M
K+++ 49  M
CO+++ 34  M
CO2- 498  M
OH- 36  M
NO3- 13  M
NO2- 1.2  M
F- 50  M
SI02- 204  M
Si02 1.2  M
Fe(Tot) 6.7  M
Mg++ 284  M
Ca++ 286  M
Na+ 504  M
K+ 13  M
HCO3- 286  M
ISOJ OPE 10/001

REFEREE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
REFERENCE: MCGREEVY AND BJORKLUND, 1970

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE: CHRONQUIST, M.G. WELLS
WELL/SPRING NUMBER: 12N 01M 02 BGC
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: Cache
GEOLOGIC PROVINCE: JS
MAP REFERENCE: NEWTON 1124000
OTHER LOCALITY INFORMATION: ELEVATION = 4420 FT.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1961/04/18
TEMPERATURE (°C): 21
WELL DEPTH (M): 232.9
DISCHARGE: 96.8
PERTINENT Lithology: AQUIFER IN SAND OF UNKNOWN AGE.
OTHER SAMPLE INFORMATION: WELL DRILLED 1961 NATURAL FLOW DOMESTIC USE.

WATER ANALYSIS
DATE/ANALYST: U.S. GEOLOGICAL SURVEY
SPECIAL CONDUCTANCE: 1600.
TOTAL DISSOLVED SOLIDS: 1010.

ANALYSIS IN MG/L
AG+++ 0.4  M
CR+++ 0.4  M
K+++ 49  M
CO+++ 34  M
CO2- 498  M
OH- 36  M
NO3- 13  M
NO2- 1.2  M
F- 50  M
SI02- 204  M
Si02 1.2  M
Fe(Tot) 6.7  M
Mg++ 284  M
Ca++ 286  M
Na+ 504  M
K+ 13  M
HCO3- 286  M
ISOJ OPE 10/001

GEOThERM FILE 107 0017607
RECUMB 00134
GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE:  KEEHL, L. WELL
WELL/SPRING NUMBER:  12N-01E-28-CUB

LOCATION
COUNTRY:  UNITED STATES
STATE:  UTAH
COUNTY:  CACHE
GEOLOGIC PROVINCE:  WASATCH UPLIFT
MAP REFERENCE:  SMITHFIELD 124000
OTHER LOCALITY INFORMATION:  ELEVATION = 4482 FT.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR:  1968/06/00
TEMPERATURE (O):  21.0
WELL DEPTH (M):  65.7
DISCHARGE:  15.1 L/MIN
PERTINENT LITHOLOGY:  AQUIFER IN QUATERNARY SAND AND GRAVEL.
OTHER SAMPLE INFORMATION:  WELL DRILLED 1968 FOR NUTRITIONAL USE.

WATER ANALYSIS
SPECIFIC CONDUCTANCE:  420.
REFERENCE AND IDENTIFICATION
COMPILED BY:  GODDE, M.
COMPILER AFFILIATION:  UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE:  MCGEEVY AND BJORKLUND, 1970

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GEOHERM FILE ID:  0017103

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GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE:  DOSSNER, E. WELLS
WELL/SPRING NUMBER:  12N-01E-29-CUB

LOCATION
COUNTRY:  UNITED STATES
STATE:  UTAH
COUNTY:  CACHE
GEOLOGIC PROVINCE:  WASATCH UPLIFT
MAP REFERENCE:  LOGAN 1124000
OTHER LOCALITY INFORMATION:  ELEVATION = 4442 FT.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR:  1968/06/00
TEMPERATURE (C):  20.0
WELL DEPTH (M):  35.0
DISCHARGE:  35.0 L/MIN
PERTINENT LITHOLOGY:  AQUIFER IN QUATERNARY SAND AND GRAVEL.
OTHER SAMPLE INFORMATION:  WELL DRILLED 1968 FOR INDUSTRIAL USE.

WATER ANALYSIS
SPECIFIC CONDUCTANCE:  410.
REFERENCE AND IDENTIFICATION
COMPILED BY:  GODDE, M.
COMPILER AFFILIATION:  UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE:  MCGEEVY AND BJORKLUND, 1970

---

GEOHERM FILE ID:  0017104
REFERENCE AND IDENTIFICATION
COMPILED BY: GODE, M.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MCREEEY AND BJORKLUND, 1970

GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE: LESS WELFARE FARM WELL
WELL/Spring NUMBER: 12N-01E-20-BCA
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: Cache
GEOLeGIC PROVINCE: WASATCH UPLIFT
MAP REFERENCE: SMITHFIELD 124000
OTHER LOCALITY INFORMATION: ELEVATION = 4476 FT.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLECTOR: 1967/08/00
TEMPERATURE (C): 23.0
WELL DEPT (M): 41.1
PERTINENT LITHOLOGY: AQUIFER IN QUATERNARY SAND AND GRAVEL.
OTHER SAMPLE INFORMATION: WELL DRILLED 1967 NATURAL FLOW I STOCK USE.

MAPE ANALYSIS
SPECIFIC CONDUCTANCE: 430.

REFERENCE AND IDENTIFICATION
COMPILED BY: GODE, M.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MCREEEY AND BJORKLUND, 1970

GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE: LISONHEE, C. WELL
WELL/Spring NUMBER: 12N-01E-20-CAY
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: Cache
GEOLeGIC PROVINCE: 12
MAP REFERENCE: SMITHFIELD 124000
OTHER LOCALITY INFORMATION: ELEVATION = 4485 FT.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLECTOR: 1967/08/00
TEMPERATURE (C): 21.0
WELL DEPT (M): 49.7
DISCHARGE: 283.9 L/MIN
PERTINENT LITHOLOGY: AQUIFER IN QUATERNARY GRAVEL.
OTHER SAMPLE INFORMATION: WELL DRILLED 1961 NATURAL FLOW I INDUSTRIAL USE.

MAPE ANALYSIS
SPECIFIC CONDUCTANCE: 430.

REFERENCE AND IDENTIFICATION
COMPILED BY: GODE, M.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MCREEEY AND BJORKLUND, 1970
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</table>
WATER ANALYSIS

SPECIFIC CONDUCTANCE...... 490

REFERENCE AND IDENTIFICATION

COMPILED BY................. GOODE, H.
COMPILE AFFILIATION........ UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.................... MCGHEEY AND BJORKLUND, 1970

GEOThERM SAMPLE FILE

NAME OF SAMPLE SOURCE... TAYLOR, C, WELL
WELL/SPRING NUMBER.... 12N-01E-16-000

LOCATION

COUNTRY............... UNITED STATES
STATE............... UTAH
COUNTY............... CACHET
GEOLOGIC PROVINCE.. 35
MAP REFERENCE.... SMITHFIELD 1124000

TOWNSHIP-RANGE

COORDINATES

DATE/COLLECTION.... 1968/04/17
TEMPERATURE (C).... 22.0
WELL DEPTH (M).... 74.1
DISCHARGE........ 136.3 L/MIN
Pertinent Lithology... AQUIFER IN QUATERNARY GRAVEL.

OTHER SAMPLE INFORMATION... WELL DRILLED 1967; NATURAL FLOW; DOMESTIC USE.

WATER ANALYSIS

PH.................. 7.4
SPECIFIC CONDUCTANCE....... 534
TOTAL DISSOLVED SOLIDS.... 336

ANALYSIS IN MILLIGRAMS PER LITER

Ag... 50. CR... 12.
H... 50. F... 12.
Fe... 50. Fe(III)... 12.
Ca... 327. HC03... 327.
Mg... 26. NA... 32.
K... 504. NO3... 16.
Cl... 16.

REFERENCE AND IDENTIFICATION

COMPILED BY................. GOODE, H.
COMPILE AFFILIATION........ UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.................... MCGHEEY AND BJORKLUND, 1970

GEOThERM SAMPLE FILE

NAME OF SAMPLE SOURCE... TOOMBS, W.W., WELL
WELL/SPRING NUMBER.... 13N-01W-25-HABB

LOCATION

COUNTRY............... UNITED STATES
STATE............... UTAH
COUNTY............... CACHET
GEOLOGIC PROVINCE.. 35
MAP REFERENCE.... NORTON 1124000

TOWNSHIP-RANGE

COORDINATES

DATE/COLLECTION.... 1951/09/14

OTHER LOCALITY INFORMATION... ELEVATION = 4419 FT.
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</table>

**WATER ANALYSIS**

| Specific Conductance (µS/cm) | 1320.0      |
| Analysis in µg/L             | 720.0       |
| Ag***                        |             |
| Al***                        |             |
| Ca***                        |             |
| Co***                        |             |
| Mg***                        |             |
| Na***                        |             |
| Fe(Total)                    |             |
| SiO2                         |             |

**REFERENCE AND IDENTIFICATION**

- **Compiled by:** Murphy, P.
- **Compiler Affiliation:** UTAH GEOLOGICAL AND MINERAL SURVEY
- **Reference:** McGreevy and Bjorklund, 1970

---

**GEO THERM SAMPLE FILE**

**NAME OF SAMPLE SOURCE:** Toowil, M.W., Well

**WELL/SPRING NUMBER:** 11N-01W-25-SABB

**Location**

- **Country:** UNITED STATES
- **State:** UTAH
- **County:** Cache
- **Geologic Province:** Wasatch Uplift
- **Map Reference:** Newton 1124000
- **Elevation:** 4419 FT

**Sample Description and Conditions**

- **Date/Collection:** 1957/11/10
- **Temperature (C):** 24
- **Well Depth (M):** 449
- **Discharge:** 1135.6
- **Pertinent Lithology:** AQUIFER IN TERTIARY SAND AND GRAVEL
- **Other Sample Information:** WELL DRILLED 19251 NATURAL FLOW IRIGATION USE

**WATER ANALYSIS**

- **Specific Conductance (µS/cm):** 1320.0
- **Analysis in µg/L:**
  - Ag***
  - Al***
  - Ca***
  - Co***
  - Mg***
  - Na***
  - Fe(Total)
  - SiO2

**REFERENCE AND IDENTIFICATION**

- **Compiled by:** Murphy, P.
- **Compiler Affiliation:** UTAH GEOLOGICAL AND MINERAL SURVEY
- **Reference:** McGreevy and Bjorklund, 1970
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MAP REFERENCE: SMITHFIELD 114000
OTHER LOCALITY INFORMATION: ELEVATION = 4444 FT.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1968/05/05
TEMPERATURE (°C): 23.0
WELL DEPTH (M): 36.
DISCHARGE: 446.7 L/MIN
PERTINENT LITHOLOGY: AQUIFER IN QUATERNARY GRAVEL.

WATER ANALYSIS
SPECIFIC CONDUCTANCE: 470.

REFERENCE AND IDENTIFICATION
COMPILER HY: GUDE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MCGREEVY AND BJORKLUND, 1970

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: DAVIS
GEOLOGIC PROVINCE: 35
MAP REFERENCE: OGUEN BAY 1142000
OTHER LOCALITY INFORMATION: ELEVATION = 4220 FT.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1969/05/14
TEMPERATURE (°C): 20.
WELL DEPTH (M): 160.
DISCHARGE: 15.1 L/MIN
OTHER SAMPLE INFORMATION: WELL DRILLED 1966 FOR DOMESTIC USE.

WATER ANALYSIS
PH: 8.
SPECIFIC CONDUCTANCE: 360.
TOTAL DISSOLVED SOLIDS: 216.

REFERENCE AND IDENTIFICATION
COMPILER HY: HURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HURK AND WADELL, 1972A

LOCATION
NAME OF SAMPLE SOURCE: RYINGSTON, M. J.
WELL/SRING NUMBER: 0SN-03W-11-1AD

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1968/05/02
TEMPERATURE (°C): 23.0
WELL DEPTH (M): 36.
DISCHARGE: 446.7 L/MIN
PERTINENT LITHOLOGY: AQUIFER IN QUATERNARY GRAVEL.

WATER ANALYSIS
SPECIFIC CONDUCTANCE: 470.

REFERENCE AND IDENTIFICATION
COMPILER HY: GUDE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MCGREEVY AND BJORKLUND, 1970

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: DAVIS
GEOLOGIC PROVINCE: 35
MAP REFERENCE: OGUEN BAY 1142000
OTHER LOCALITY INFORMATION: ELEVATION = 4220 FT.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1969/05/14
TEMPERATURE (°C): 20.
WELL DEPTH (M): 160.
DISCHARGE: 15.1 L/MIN
OTHER SAMPLE INFORMATION: WELL DRILLED 1966 FOR DOMESTIC USE.

WATER ANALYSIS
PH: 8.
SPECIFIC CONDUCTANCE: 360.
TOTAL DISSOLVED SOLIDS: 216.

REFERENCE AND IDENTIFICATION
COMPILER HY: HURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HURK AND WADELL, 1972A

LOCATION
NAME OF SAMPLE SOURCE: RYINGSTON, M. J.
WELL/SRING NUMBER: 0SN-03W-11-1AD

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1968/05/02
TEMPERATURE (°C): 23.0
WELL DEPTH (M): 36.
DISCHARGE: 446.7 L/MIN
PERTINENT LITHOLOGY: AQUIFER IN QUATERNARY GRAVEL.

WATER ANALYSIS
SPECIFIC CONDUCTANCE: 470.

REFERENCE AND IDENTIFICATION
COMPILER HY: GUDE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
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LOCATION
COUNTRY: UNITED STATES
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OTHER LOCALITY INFORMATION: ELEVATION = 4220 FT.

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TOTAL DISSOLVED SOLIDS: 216.

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COMPILER HY: HURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HURK AND WADELL, 1972A

LOCATION
NAME OF SAMPLE SOURCE: RYINGSTON, M. J.
WELL/SRING NUMBER: 0SN-03W-11-1AD

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1968/05/02
TEMPERATURE (°C): 23.0
WELL DEPTH (M): 36.
DISCHARGE: 446.7 L/MIN
PERTINENT LITHOLOGY: AQUIFER IN QUATERNARY GRAVEL.

WATER ANALYSIS
SPECIFIC CONDUCTANCE: 470.

REFERENCE AND IDENTIFICATION
COMPILER HY: GUDE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MCGREEVY AND BJORKLUND, 1970

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: DAVIS
GEOLOGIC PROVINCE: 35
MAP REFERENCE: OGUEN BAY 1142000
OTHER LOCALITY INFORMATION: ELEVATION = 4220 FT.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1969/05/14
TEMPERATURE (°C): 20.
WELL DEPTH (M): 160.
DISCHARGE: 15.1 L/MIN
OTHER SAMPLE INFORMATION: WELL DRILLED 1966 FOR DOMESTIC USE.

WATER ANALYSIS
PH: 8.
SPECIFIC CONDUCTANCE: 360.
TOTAL DISSOLVED SOLIDS: 216.

REFERENCE AND IDENTIFICATION
COMPILER HY: HURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
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Other Locality Information:
- Elevation: 4222 ft.

Sample Description and Conditions:
- Date/Collect: 1962/11/14
- Temperature (°C): 22
- Well Depth (m): 300.2
- Discharge: 95 L/min

Other Sample Information:
- Well Drilled 19601 Public Use

Water Analysis:
- Specific Conductance: 400

Reference and Identification:
- Compiled By: Murphy, P.
- Compiler Affiliation: Utah Geological and Mineral Survey
- Reference: ROLKE AND WADDELL, 1972A

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Geotherm Sample File:

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Sample Description and Conditions:
- Date/Collect: 1969/09/09
- Temperature (°C): 24
- Well Depth (m): 300.2
- Discharge: L/min

Other Sample Information:
- Well Drilled 19601 Public Use

Water Analysis:
- PH: 7.9
- Specific Conductance: 394
- Total Dissolved Solids: 267

Isotopes:

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Reference and Identification:
- Compiled By: Murphy, P.
- Compiler Affiliation: Utah Geological and Mineral Survey
- Reference: ROLKE AND WADDELL, 1972A
LOCATION
COUNTRY.............. UNITED STATES
STATE................. UTAH
COUNTY............... DAvis
GEOLoGic PROVINCE.... 35
MAP REFERENCE........ FARMINGTON 1124000
OTHER LOCALITY INFORMATION
ELEVATION = 4206 FT.

SAmple description and CONDITIONS
DATE/COLLECTOR...... 1960/11/28
TEMPERATURE (C)....... 29
WELL DEPTH (M)......... 372.
OTHER SAMPLE INFORMATION
WELL DRILLED 1955 FOR DOMESTIC USE.

HARPER ANALYSIS
pH.......................... 7.6
SPECIFIC CONDUCTANCE.... 1190.
TOTAL DISSOLVED SOLIDS.. 752.
CHARGE IMBALANCE (% DIFF). 1.3

ANALYSIS IN NO/L
Ag+............. CO3:..... H
Al+............. Ca++........ Mn++
H+................ Fe+++........ Na++
K+............... Mg++........ S1O2-
Ca++........... NO3-
Cl-............. 370.

REFERENCE AND IDENTIFICATION
COMPILED BY.............. MURPHY, P.
COMPILER AFFILIATION.... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE................ HOLKE AND WADDELL, 1972A

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... FARMINGTON BAY REFUGE WElL
WELL/SPRING NUMBER...... 03N-01W-35-ABA

COORDINATES
LAT/LONG... 40-56-45 N 111-55-00 W
UTM ZONE.... +12
NORTHING... 4533953.
422992.

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... FARMINGTON BAY REFUGE WElL
WELL/SPRING NUMBER...... 03N-01W-35-ABA

COORDINATES
LAT/LONG... 40-56-45 N 111-55-00 W
UTM ZONE.... +12
NORTHING... 4533953.
422992.

ISOPIES (0/01)

REFERENCE AND IDENTIFICATION
COMPILED BY.............. MURPHY, P.
COMPILER AFFILIATION.... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE................ HOLKE AND WADDELL, 1972A
**Total Dissolved Solids...** 773.

**Analysis in mg/l**

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**Isotopes (Ag/Ag)**

**Reference and Identification**

Compiled by: Murphy, P.

Compiler Affiliation: Utah Geological and Mineral Survey

Reference: Rolke and Wadell, 1972

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**Geothermal Sample File**

**Name of Sample Source**: GSL Authority Well

**Well/Spring Number**: 04N-03W-19-CAU

**Location**

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**Sample Description and Conditions**

Date/Collecton: 1969/08/01

Temperature (C): 23

Well Depth (M): 145.6

Discharge: 1059.9 L/min

**Other Sample Information**: Well drilled 1969 for domestic use.

**Analysis**

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**Specific Conductance**: 516.

**Analysis in mg/L**

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**Reference and Identification**

Compiled by: Murphy, P.

Compiler Affiliation: Utah Geological and Mineral Survey

Reference: Rolke and Wadell, 1972

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**Geothermal Sample File**

**Name of Sample Source**: GSL Authority Well

**Well/Spring Number**: 04N-03W-19-CAU

**Location**

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<td>41-03-88 N 112-13-87 W</td>
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**Sample Description and Conditions**

Date/Collecton: 1969/08/01

Temperature (C): 23

Well Depth (M): 145.6

Discharge: 1059.9 L/min

**Other Sample Information**: Well drilled 1969 for domestic use.

**Analysis**

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**Specific Conductance**: 516.

**Analysis in mg/L**

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**Reference and Identification**

Compiled by: Murphy, P.

Compiler Affiliation: Utah Geological and Mineral Survey

Reference: Rolke and Wadell, 1972
STATE: UTAH  
COUNTY: DAVIS
GEOLOGIC PROVINCE: UTM ZONE: 12

MAP REFERENCE: ANTELOPE ISLAND NORTH 1124000
OTHER LOCALITY INFORMATION: ELEVATION = 4200 FT

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION: 1969/07/30
TEMPERATURE (C): 24.0
WELL DEPTH (M): 146.6
DISCHARGE: 1059.9 L/MIN
OTHER SAMPLE INFORMATION: WELL DRILLED 1969 DOMESTIC USE

WATER ANALYSIS
PH: 7.6
SPECIFIC CONDUCTANCE: 1360.0
TOTAL DISSOLVED SOLIDS: 783.0
ANALYSIS IN MG/L
A0: 0.16
CR: 0.21
H: 202
NA: 35
F: 0.34
NO: 12
FE(II): 0.34
NO3: 0.6
Mg: 187
CO3: 35
SIO2: 35

ISOTOPES: 

REFERENCE AND IDENTIFICATION
COMPILER: MURPHY P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: BOLKE AND MADDELL. 1972A

GEOCHEMICAL SAMPLE FILE
NAME OF SAMPLE SOURCE: HARRIS, W. WELL
WELL/SPRING NUMBER: 03N-01W-09-AAD

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: DAVIS
GEOLOGIC PROVINCE: WASATCH UPLIFT
MAP REFERENCE: KAYSVILLE 1124000
OTHER LOCALITY INFORMATION: ELEVATION = 4263 FT

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION: 1969/09/08
TEMPERATURE (C): 20.0
WELL DEPTH (M): 1980
DISCHARGE: 197.5 L/MIN
OTHER SAMPLE INFORMATION: WELL DRILLED 1945 DOMESTIC USE

WATER ANALYSIS
SPECIFIC CONDUCTANCE: 350.0
ANALYSIS IN MG/L

REFERENCE AND IDENTIFICATION
COMPILER: MURPHY P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: BOLKE AND MADDELL. 1972A
GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... HAWKES, C.C. WELL
WELL/SPRING NUMBER... 05N-02W-05-ACB
LOCATION
COUNTRY.............. UNITED STATES
STATE............... UTAH
COUNTY.............. DAVIS
GEOLOGIC PROVINCE... WASATCH UPLIFT
MAP REFERENCE....... 1124000
OTHER LOCALITY INFORMATION: ELEVATION = 4025 FT.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR...... 1968/08/30
TEMPERATURE (C)..... 22
WELL DEPTH (M)...... 128.4
DISCHARGE............ 113.6 L/MIN
OTHER SAMPLE INFORMATION: DOMESTIC USE.

WATER ANALYSIS
PH.................... 7.7
SPECIFIC CONDUCTANCE... 939 µS
TOTAL DISSOLVED SOLIDS... 509 mg/L
ANALYSIS IN µG/L
AG+...... CO3-...... N
Al+3...... CA+...... Mg+2...... 247
Be+2...... Fe+3...... 0.4
Ca+2...... HCO3-...... 191
Cl-...... K+...... 7.6

REFERENCE AND IDENTIFICATION
COMPILED BY.......... MURPHY, P.
COMPILED AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............ ROLKE AND WADDELL, 1972A

---

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... HILL AFB WELL NO. 2
WELL/SPRING NUMBER... 05N-01W-29-BOC
LOCATION
COUNTRY.............. UNITED STATES
STATE............... UTAH
COUNTY.............. DAVIS
GEOLOGIC PROVINCE... WASATCH UPLIFT
MAP REFERENCE....... 1124000
OTHER LOCALITY INFORMATION: ELEVATION = 4780 FT.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR...... 1966/07/15
TEMPERATURE (C)..... 20.6
WELL DEPTH (M)...... 191.1
DISCHARGE............ 28.49 L/MIN
OTHER SAMPLE INFORMATION: WELL DRILLED 1941; PUBLIC USE.
WATER ANALYSIS
PH.................... 7.6
WELL/SPRING NUMBER: 05N-03W-27-C0D
LOCATION:
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: DAVIS
GEOLOGIC PROVINCE: WASATCH UPLIFT
MAP REFERENCE: OGDEN BAY 1/44000
SAMPLE DESCRIPTION AND CONDITIONS:
DATE/COLLECTOR: 1957/06/20
TEMPERATURE (C): 54.4
DISCHARGE: E 60 L/Min
WATER ANALYSIS:
PH: 7.8
SPECIFIC CONDUCTANCE: 14300
TOTAL DISSOLVED SOLIDS: 8350
ANALYSIS IN PPM

AG... 0.0014
AL... 0.9034
CR... 0.0004 L 0.0014
CA... 0.0024
AO... 1.0
F... 0.00057
BE... 0.137
CA+Mg... 224
CA+Na... 224
P... 0.0014
B... 0.00029
V... 0.00029
Zn... 0.0011

REFERENCE AND IDENTIFICATION:
COMPILERS AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MUNDIERS, 1970

ISOPIES (D/OM):

RECORD 00168
GEOCHEM SAMPLE FILE: UTOH 0017324
NAME OF SAMPLE SOURCE: HOOPES HOT SPRINGS
WELL/SPRING NUMBER: 05N-03W-27-C0D
LOCATION:
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: DAVIS
GEOLOGIC PROVINCE: WASATCH UPLIFT
MAP REFERENCE: OGDEN BAY 1/44000
SAMPLE DESCRIPTION AND CONDITIONS:
DATE/COLLECTOR: 1957/06/20
TEMPERATURE (C): 54.4
WATER ANALYSIS:
PH: 7.8
SPECIFIC CONDUCTANCE: 14300
TOTAL DISSOLVED SOLIDS: 8350
CHARGE IMBALANCE (% DIFF): 1.8
ANALYSIS IN PPM

AL... 0.901
H... 0.9
F... 0.0004 L 0.0014
CA... 0.0024
CA+Mg... 224
CA+Na... 224
P... 0.0014
B... 0.00029
V... 0.00029
Zn... 0.0011

REFERENCE AND IDENTIFICATION:
COMPILERS AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MUNDIERS, 1970

ISOPIES (D/OM):
GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... HOOPER HOT SPRINGS
WELL/SPRING NUMBER...... 0SN-03W-27-C06

LOCATION
COUNTRY............... UNITED STATES 0SN 03W 27 SE OF NW OF SW
STATE............... UTAH BLM SALT LAKE CITY
COUNTY............... DAVIS
GEOLOGIC PROVINCE... WASATCH UPLIFT
MAP REFERENCE...... OGDEN BAY 1124000

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR...... 1953/09/15
TEMPERATURE (C)...... 60.0

WATER ANALYSIS
DATE/ANALYST.......... U.S. BUREAU OF RECLAMATION
SPECIFIC CONDUCTANCE... 14900
TOTAL DISSOLVED SOLIDS... 9310

ANALYSIS IN PPM
AL............... 0.7
Ca............... 535
CO............... 4370
Cr............... 0.7
Fe............... FR0.7
Mg............... 92.0
Na............... 2520
Ni............... 5102
N03.............. 504
Cl............... 1680
CO3.............. 504

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... HOOPER HOT SPRINGS
WELL/SPRING NUMBER...... 0SN-03W-27-C06

LOCATION
COUNTRY............... UNITED STATES 0SN 03W 27 SE OF NW OF SW
STATE............... UTAH BLM SALT LAKE CITY
COUNTY............... DAVIS
GEOLOGIC PROVINCE... WASATCH UPLIFT
MAP REFERENCE...... OGDEN BAY 1124000

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR...... 1953/09/15
TEMPERATURE (C)...... 60.0

WATER ANALYSIS
SPECIFIC CONDUCTANCE... 14500.
TOTAL DISSOLVED SOLIDS... 8600.
CHARGE IMBALANCE (% DIFF).... 1.1
ANALYSIS IN PPM

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REFERENCE AND IDENTIFICATION

COMPILED BY: MURPHY, P.
COMPILE AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HUNKER, 1970

---

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE: ROUSE, L. WELL
WELL/SPRING NUMBER: 03N-01W-04-G08
LOCATION

COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: DAVIS
GEOLOGIC PROVINCE: WASATCH UPLIFT
MAP REFERENCE: KAYSVILLE 1:24000
OTHER LOCALITY INFORMATION: ELEVATION = 4231 ft.

DATE/COLLECTION: 1966/08/20
TEMPERATURE (°C): 20
WELL DEPTH (M): 200.3
DISCHARGE: 64.6 L/MIN
OTHER SAMPLE INFORMATION: WELL DRILLED 1952; PUBLIC USE.

WATER ANALYSIS

SPECIFIC CONDUCTANCE: 7.8 mg/l
TOTAL DISSOLVED SOLIDS: 222
ANALYSIS IN MG/L

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REFERENCE AND IDENTIFICATION

COMPILED BY: MURPHY, P.
COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HUNKER AND WADDLE, 1972A

---

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE: SMITH, C.D. WELL
WELL/SPRING NUMBER: 03N-01W-05-G0A
LOCATION

COUNTRY: UNITED STATES
TOWNSHIP-RANGE: 03N 001W 05 NE OF SE OF SE
COORDINATES

LAT/LONG: 41-01-17 N 111-58-17 W

REFERENCE AND IDENTIFICATION

COMPILED BY: MURPHY, P.
COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HUNKER AND WADDLE, 1972A

---

ISOTOPES (10/01)

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REFERENCE AND IDENTIFICATION

COMPILED BY: MURPHY, P.
COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HUNKER AND WADDLE, 1972A

---

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE: SMITH, C.D. WELL
WELL/SPRING NUMBER: 03N-01W-05-G0A
LOCATION

COUNTRY: UNITED STATES
TOWNSHIP-RANGE: 03N 001W 05 NE OF SE OF SE
COORDINATES

LAT/LONG: 41-01-17 N 111-58-17 W

REFERENCE AND IDENTIFICATION

COMPILED BY: MURPHY, P.
COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HUNKER AND WADDLE, 1972A

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ISOTOPES (10/01)

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REFERENCE AND IDENTIFICATION

COMPILED BY: MURPHY, P.
COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HUNKER AND WADDLE, 1972A

---

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE: SMITH, C.D. WELL
WELL/SPRING NUMBER: 03N-01W-05-G0A
LOCATION

COUNTRY: UNITED STATES
TOWNSHIP-RANGE: 03N 001W 05 NE OF SE OF SE
COORDINATES

LAT/LONG: 41-01-17 N 111-58-17 W

REFERENCE AND IDENTIFICATION

COMPILED BY: MURPHY, P.
COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HUNKER AND WADDLE, 1972A
STATE: UTAH  
COUNTY: DAVIS  
GEOLOGIC PROVINCE: WASATCH UPLIFT  
MAP REFERENCE: KAYSVILLE 112400  
OTHER LOCALITY INFORMATION: ELEVATION = 4226 FT.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTED: 1968/11/14  
TEMPERATURE (C): 24  
WELL DEPTH (M): 279.8  
DISCHARGE: 1135.6 L/MIN
OTHER SAMPLE INFORMATION: WELL DRILLED 19661 STOCK USE.

WATER ANALYSIS
PM: 7.8  
SPECIFIC CONDUCTANCE: 301  
TOTAL DISSOLVED SOLIDS: 195
ANALYSIS IN MG/L

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REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.  
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY  
REFERENCE: ROLKE AND WADDELL, 1972A

---

GROUNDWATER SAMPLE FILE
NAME OF SAMPLE SOURCE: SOUTHWEST HOOPER WARM SPRINGS  
WELL/Spring NUMBER: 05N-03W-20-BAC

LOCATION
COUNTRY: UNITED STATES  
STATE: UTAH  
COUNTY: DAVIS  
GEOLOGIC PROVINCE: WASATCH UPLIFT  
MAP REFERENCE: OGDEN BAY 1124000
OTHER LOCALITY INFORMATION: 3/4 MILE WEST OF HOOPER SPRING.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTED: 1953/09/15  
TEMPERATURE (C): 32.2

WATER ANALYSIS
PM: 7.6  
SPECIFIC CONDUCTANCE: 39400  
TOTAL DISSOLVED SOLIDS: 27800
ANALYSIS IN PPM

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REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.  
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY  
REFERENCE: ROLKE AND WADDELL, 1972A
GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE... THALMAN, A, WELK
WELL/SPRING NUMBER.... 02N-01W-27-000
LOCATION
COUNTRY............. UNITED STATES
STATE............... UTAH
COUNTY............... DAVIS
GEOLOGIC PROVINCE... WASHATCH UPLIFT
MAP REFERENCE...... SALT LAKE CITY NORTH 1124000
OTHER LOCALITY INFORMATION... ELEVATION = 4230 FT.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR...... 1962/02/21
TEMPERATURE (°C).... 20.0
WELL DEPTH (M)...... 152.4
OTHER SAMPLE INFORMATION,... WELL DRILLED 1885 FOR DOMESTIC USE
WATER ANALYSIS
SPECIFIC CONDUCTANCE... 661
TOTAL DISSOLVED SOLIDS... 375
ANALYSIS IN MG/L
REFERENCE AND IDENTIFICATION
COMPILED BY............. GOODE, H.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............. ROLKE AND WADDELL, 1972A
GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE... THALMAN, F, WELK
WELL/SPRING NUMBER.... 02N-01W-26-000
LOCATION
COUNTRY............. UNITED STATES
STATE............... UTAH
COUNTY............... DAVIS
GEOLOGIC PROVINCE... WASHATCH UPLIFT
MAP REFERENCE...... SALT LAKE CITY NORTH 1124000
OTHER LOCALITY INFORMATION... ELEVATION = 4230 FT.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR...... 1962/08/21
TEMPERATURE (°C).... 20.0
WELL DEPTH (M)...... 129.5
DISCHARGE........... 51.86 L/MIN
OTHER SAMPLE INFORMATION,... WELL DRILLED 1961 FOR WATER NOT USED.
WATER ANALYSIS
SPECIFIC CONDUCTANCE... 7.9
TOTAL DISSOLVED SOLIDS... 2200
ANALYSIS IN MG/L
AG........ CO3...... N
AL........ CR........ MG...... 61.
M........ 0.71 F........ NA...... 451.
GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE... WAYMENT, E. J. WELL
WELL/SPRING NUMBER...... 06N-03W-04-DAB

LOCATION
COUNTRY............... UNITED STATES
STATE............... UTAH
COUNTY............... DAVIS
GEOLOGIC PROVINCE... WASATCH UPLIFT
MAP REFERENCE...... PLAIN CITY SW 1124000
OTHER LOCALITY INFORMATION... ELEVATION = 4215 FT.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR...... 1968/10/09
TEMPERATURE (C)...... 21°
WELL DEPTH (M)....... 164.6
DISCHARGE........... 22.7 L/MIN
OTHER SAMPLE INFORMATION... WELL DRILLED 1966 FOR STOCK USE.

WATER ANALYSIS
PH...................... 8.0
SPECIFIC CONDUCTANCE... 816µ
TOTAL DISSOLVED SOLIDS... 531 mg/L

ANALYSIS IN MG/L
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ISOPTES (‰/V)

REFERENCE AND IDENTIFICATION
COMPILED BY............. GOODE, H.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.............. ROLKE AND WADDELL 1972A

---

GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE... WHEELER MACH. CO. WELL
WELL/SPRING NUMBER...... 03N-01W-27-AWA

LOCATION
COUNTRY............... UNITED STATES
STATE............... UTAH
COUNTY............... UTAH
GEOLOGIC PROVINCE... WASATCH UPLIFT
MAP REFERENCE...... FARMINGTON 1124000

REFERENCE AND IDENTIFICATION
COMPILED BY............. MURPHY, P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.............. ROLKE AND WADDELL 1972A

---
**OTHER LOCALITY INFORMATION**

**ELEVATION = 4213 FT.**

**SAMPLE DESCRIPTION AND CONDITIONS**

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**WATER ANALYSIS**

| PH | 7.0 |
| SPECIFIC CONDUCTANCE | 570.0 |
| TOTAL DISSOLVED SOLIDS | 354.0 |

**ANALYSIS IN MG/L**

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**REFERENCE AND IDENTIFICATION**

COMPILED BY: MURPHY, P.

**COMPILER AFFILIATION**

UTAH GEOLOGICAL AND MINERAL SURVEY

**REFERENCE**

BOLME AND WADDLE, 1972A

---

**GEOLOGICAL SAMPLE FILE**

**NAME OF SAMPLE SOURCE**

WARM SPRING

**WELL/SPRING NUMBER**

01N-08W-30-0DB

**LOCATION**

COUNTRY: UNITED STATES

STATE: UTAH

COUNTY: DUCHESNE

GEOLOGIC PROVINCE: 30

MAP REFERENCE: MANNA 1124000

**SAMPLE DESCRIPTION AND CONDITIONS**

DATE/COLLECTOR: 1971/11/24

TEMPERATURE (C): 26.0

DISCHARGE: 750.0

**OTHER LOCALITY INFORMATION**

**ELEVATION = 7030 FT.**

**WATER ANALYSIS**

| PH | 7.4 |
| SPECIFIC CONDUCTANCE | 704.0 |
| TOTAL DISSOLVED SOLIDS | 454.0 |

**ANALYSIS IN MG/L**

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**REFERENCE AND IDENTIFICATION**

K, 4.4
NAME OF SAMPLE SOURCE... ROADSIDE GYER - WATER WELL
WELL/SPRING NUMBER...... 165-14E-09-DOO
LOCATION
COUNTRY.............. UNITED STATES
STATE.............. UTAH
COUNTY.............. EMERY
GEOLOGIC PROVINCE... 36
MAP REFERENCE.... WOODSIDE 1162500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR...... 1947/03/14
TEMPERATURE (C)...... 27.8
WELL DEPTH (M)........ 54.9
PERTINENT LITHOLOGY... "MANCOS SHALE"
WATER ANALYSIS
SPECIFIC CONDUCTANCE..... 5640.
TOTAL DISSOLVED SOLIDS... 4710.
AL... 0.0 MG... 280.
BA... 98 NA+ 360.
BE... 98 MG... 504.
CA... 98 HC03... 2840.
CO2... 215.
REFERENCE AND IDENTIFICATION
COMPILER BY..... GOODE, H.
COMPILER AFFILIATION.. UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE........ FELTIS; 1966

NAME OF SAMPLE SOURCE... DEAD COWS SPRING
WELL/SPRING NUMBER...... 315-09E-17-CA
LOCATION
COUNTRY.............. UNITED STATES
STATE.............. UTAH
COUNTY.............. GARFIELD
GEOLOGIC PROVINCE... 36
MAP REFERENCE.... MT ELLEN 1162500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR...... 1975/07/31
TEMPERATURE (C)...... 25.0
DISCHARGE........... 38 L/MIN
PERTINENT LITHOLOGY... "MANCOS SHALE"
WATER ANALYSIS
SPECIFIC CONDUCTANCE..... 1350.
TOTAL DISSOLVED SOLIDS... 971.
CHARGE IMBALANCE (% DIFF)... 0.1
ANALYSIS IN MG/L

AG... CO3... Li... 0.03
AL... CR... MG... 67.
AS... N
R... 0.11 F... 0.5 Na... 62. SiO2... 14
HE... FE(TOTI)... NB... 504... 528.
CA... 150 MC03... 248. NO3... 0.01
CA+Mg... HO... PB... 0.003
CO... M25... PO4... 0.03
CD... 29 K... 0.8

REFERENCE AND IDENTIFICATION
COMPILED BY... GOODE M.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE... GOODE 1978

PACIFIC Converts GeoTherm SAMPLE FILE
NAME OF SAMPLE SOURCE... HONEY POT SPRING
WELL/Spring NUMBER... 36S-11E-06-ACA

LOCATION
COUNTRY... UNITED STATES
STATE... UTAH
COUNTY... GARFIELD
GEOLOGIC PROVINCE... 36
MAP REFERENCE... MT ELLSWORTH 11262500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/Collector... 1975/08/17
TEMPERATURE (C)... 23
DISCHARGE... 7.6
WATER ANALYSIS
SPECIFIC CONDUCTANCE... 3000.
TOTAL DISEOLVED SOLIDS... 2790.
CHANGE IMBALANCE (% DIFF)... 0.7
ANALYSIS IN MG/L
AG... CO3... Li... 0.17
AL... CR... Mg... 260.
H... 0.12 F... 0.4 Na... 300. SiO2... 11.
HE... FE(TOTI)... NB... 504... 1400.
CA... 190 MC03... 405. NO3... 1.4
CA+Mg... HO... PB... 0.001
CO... M25... PO4... N
CD... 15 K... 13.

REFERENCE AND IDENTIFICATION
COMPILED BY... HUMPHREY P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE... GOODE 1978

PACIFIC Converts GeoTherm SAMPLE FILE
NAME OF SAMPLE SOURCE... LAFFEYEA'S SPRING
WELL/Spring NUMBER... 13S-05W-17-AC

ISOTOPES 10/001
LOCATION
COUNTRY............ UNITED STATES  
STATE.............. UTAH  
COUNTY............. GARFIELD  
GEOLOGIC PROVINCE, 36  
MAP REFERENCE.... PANGUITCH 1124000  
OTHER LOCALITY INFORMATION: UPPER "SEvier RIVER BASIN".  

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1962/07/00  
TEMPERATURE (C)..... 29°  
DISCHARGE........... 57.  
PEPTINENT LITHOLOGY..... "BRYAN HEAD" AND "WASATCH" FORMATIONS (SANDSTONE AND SHALE) SPRING ISSUES FROM FAULT ZONE.  
OTHER SAMPLE INFORMATION: DOMESTIC, IRRIGATION, AND STOCK USE.  
QUALIFICATION FIELD..... TEMP RANGE 26-32 C.  
REFERENCE AND IDENTIFICATION
COMPILED BY........... HUMPHRY, P.  
COMPILED AFFILIATION..... UTAH GEOLOGICAL AND MINERAL SURVEY  
REFERENCE............... CARPENTER AND OTHERS, 1964  

---

LOCATION:
COUNTRY............ UNITED STATES  
STATE.............. UTAH  
COUNTY............. GARFIELD  
GEOLOGIC PROVINCE, 36  
MAP REFERENCE.... MT ELLSWORTH 1162500  

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1977/08/17  
TEMPERATURE (C)..... 26°  
DISCHARGE........... 19  
PEPTINENT LITHOLOGY..... HOLOCENE ALLUVIUM.  
OTHER SAMPLE INFORMATION: DRY ON 1977/12/06.  

WATER ANALYSIS
SPECIFIC CONDUCTANCE...... 4000  
TOTAL DISSOLVED SOLIDS.... 3380  
CHARGE IMBALANCE (Z DIFF).... 3.9  

ANALYSIS IN MU/L
AG..... 0.001  
AL..... 0.12  
Na..... 0.6  
Ca..... 360  
Mg..... 10  
K..... 45.  
Cl..... 11.  
CO3..... 0.18  
Li..... 130.  
Fe..... 520.  
PO4..... 16  
SIO2..... 2200  
NO3..... 3.4  
Pb..... 0.002  
Zn..... 0.01

REFERENCE AND IDENTIFICATION
COMPILED BY........... HUMPHRY, P.  
COMPILED AFFILIATION..... UTAH GEOLOGICAL AND MINERAL SURVEY  
REFERENCE............... MOORE, 1978
GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SALT SPRING
WELL/SPRING NUMBER..... 355-10E-20-AAC

LOCATION

COUNTRY.......... UNITED STATES
STATE.......... UTAH
COUNTY.......... GARFIELD
GEOLOGIC PROVINCE.. PARADOX BASIN
MAP REFERENCE..... MT PENNELL 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1975/08/19
TEMPERATURE (C)..... 20
DISCHARGE......... 0.20

POTENTIAL LITHOLOGY... CRETAEOUS "DAKOTA SANDSTONE"

WATER ANALYSIS

SPECIFIC CONDUCTANCE.... 0.1700
QUALIFICATION FIELD..... 7 DEG C AND 2100 UHNO ON 12/4/77

REFERENCE AND IDENTIFICATION

COMPILER OF SAMPLE... MURPHY, P.
COMPILER'S AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE..... HOODE 1978

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SALT SPRING
WELL/SPRING NUMBER..... 355-10E-20-AAC

LOCATION

COUNTRY.......... UNITED STATES
STATE.......... UTAH
COUNTY.......... GARFIELD
GEOLOGIC PROVINCE.. PARADOX BASIN
MAP REFERENCE..... MT PENNELL 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1975/08/19
TEMPERATURE (C)..... 20
DISCHARGE......... 0.20

POTENTIAL LITHOLOGY... CRETAEOUS "DAKOTA SANDSTONE"

WATER ANALYSIS

SPECIFIC CONDUCTANCE.... 0.1700
QUALIFICATION FIELD..... 7 DEG C AND 2100 UHNO ON 12/4/77

REFERENCE AND IDENTIFICATION

COMPILER OF SAMPLE... MURPHY, P.
COMPILER'S AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE..... HOODE 1978

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SALT SPRING
WELL/SPRING NUMBER..... 355-10E-20-AAC

LOCATION

COUNTRY.......... UNITED STATES
STATE.......... UTAH
COUNTY.......... GARFIELD
GEOLOGIC PROVINCE.. PARADOX BASIN
MAP REFERENCE..... MT PENNELL 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1975/08/19
TEMPERATURE (C)..... 20
DISCHARGE......... 0.20

POTENTIAL LITHOLOGY... CRETAEOUS "DAKOTA SANDSTONE"

WATER ANALYSIS

SPECIFIC CONDUCTANCE.... 0.1700
QUALIFICATION FIELD..... 7 DEG C AND 2100 UHNO ON 12/4/77

REFERENCE AND IDENTIFICATION

COMPILER OF SAMPLE... MURPHY, P.
COMPILER'S AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE..... HOODE 1978
COUNTY................. GARFIELD
GEOLOGIC PROVINCE.... PANAROX BASIN
MAP REFERENCE........ MT PENNELL 1162500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR........ 1975/06/09
TEMPERATURE (C)......... 21°
DISCHARGE.............. 284.8 L/MIN
PERTINENT LITHOLOGY.... JURASSIC-TIANSIC "NAVAJO SANDSTONE."
WATER ANALYSIS
SPECIFIC CONDUCTANCE.... 84.5 MS
TOTAL DISSOLVED SOLIDS... 250MG/L
ANALYSIS IN MG/L
AG+..... 0.005
AL+..... 0.005
AS+..... 0.97
H+..... 0.2
CA+..... 13
Mg+..... 61
CO3−..... 48
K+..... 4.6
CL−..... 8
P+..... 0.004
SO4−..... 69
N3−..... 0.01
Mg+..... 15
H2O+..... 0.01
NA+..... 0.5
Li+..... 0.08

H2O−..... 1
N3−..... 0.11

ISOTOPES (O/18)

REFERENCE AND IDENTIFICATION
COMPILED BY............. MURPHY P.
COMPILER AFFILIATION.... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.............. GOODDE, 1978

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PDF QUALITY: 75.00
REDUCED TO: 100.00
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NAME OF SAMPLE SOURCE: SHITAMARING MINE WELL
WELL/SPRING NUMBER: 355-11E-16-000

COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: GARFIELD
GEOLOGIC PROVINCE: PARADOX BASIN
MAP REFERENCE: MT HILLERS 1162500

LOCATION
TOWNSHIP: 35S
RANGE: 01E
SECTION: 16
SW OF SE

COORDINATES
LAT/LONG: 37°45.50 N 110°41.98 W
UTM ZONE: 12
NORTHING: 4178802

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1966/06/00
TEMPERATURE (°C): 20°
WELL DEPTH (M): 170.7
DISCHARGE: 132.5 L/MIN

PERTINENT LITHOLOGY: UPPER JURASSIC "ENTRADA SANDSTONE"

WATER ANALYSIS
PH: 8.4
SPECIFIC CONDUCTANCE: 610
TOTAL DISSOLVED SOLIDS: 369

ANALYSIS IN MG/L
AG: 0.005
AL: 0.007
AS: 0.005
B: 0.07
Ca: 21
Cl: 8.1
CO3: 5.5
CO2: 0.1
Cr: 0.6
Fe: 0.07
F: 0.3
Li: 0.1
Mg: 12
Na: 83
NO3: 0.7
NO3: 504
SI: 15
SO4: 130

ISOTOPES (O/CO2)

REFERENCE AND IDENTIFICATION
COMPILED BY: HURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: GOODNE 1978

---

NAME OF SAMPLE SOURCE: SHITAMARING SPRING
WELL/SPRING NUMBER: 355-11E-21-ABB

COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: GARFIELD
GEOLOGIC PROVINCE: PARADOX BASIN
MAP REFERENCE: MT HILLERS 1162500

LOCATION
TOWNSHIP: 35S
RANGE: 01E
SECTION: 21
NW OF NW OF NE

COORDINATES
LAT/LONG: 37°45.42 N 110°42.13 W
UTM ZONE: 12
NORTHING: 4178580

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1976/06/30
TEMPERATURE (°C): 22°
DISCHARGE: 238 L/SEC

PERTINENT LITHOLOGY: UPPER JURASSIC "SUMMERVILLE FORMATION"

WATER ANALYSIS
SPECIFIC CONDUCTANCE: 3600

REFERENCE AND IDENTIFICATION
COMPILED BY: HURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: GOODNE 1978

---

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: SHITAMARING SPRING
WELL/SPRING NUMBER: 355-11E-21-ABB

COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: GARFIELD
GEOLOGIC PROVINCE: PARADOX BASIN
MAP REFERENCE: MT HILLERS 1162500

LOCATION
TOWNSHIP: 35S
RANGE: 01E
SECTION: 21
NW OF NW OF NE

COORDINATES
LAT/LONG: 37°45.42 N 110°42.13 W
UTM ZONE: 12
NORTHING: 4178580

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1976/06/30
TEMPERATURE (°C): 22°
DISCHARGE: 238 L/SEC

PERTINENT LITHOLOGY: UPPER JURASSIC "SUMMERVILLE FORMATION"

WATER ANALYSIS
SPECIFIC CONDUCTANCE: 3600

REFERENCE AND IDENTIFICATION
COMPILED BY: HURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: GOODNE 1978

GEOTHERM FILE 101 0017621
GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... THOMPSON SEEP
WELL/SPRING NUMBER..... 355-09E-13-CBC8

LOCATION
COUNTRY............. UNITED STATES
STATE............ UTAH
COUNTY.......... GANFIELD
GEOLOGIC PROVINCE.. PARAQUAX BASIN
MAP REFERENCE..... MT PENNELL 1162500

TOWNSHIP-RANGE
355 09E 13 NW OF SW OF NW SW
COORDINATES LAT/LONG... 47-45.78 N 110-52.37 W
UTH ZONE... 12
NORTHING... 4179211.

OTHER LOCALITY INFORMATION
ELEVATION = 510834.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR...... 1975/09/19
TEMPERATURE (°C).... 21
DISCHARGE.......... L 3.8
POTENTIAL LITHOLOGY... CRETACEOUS "UAKOTA SANUSIONE"

WATER ANALYSIS
DATE/ANALYST............. U.S. GEOLOGICAL SURVEY
PH............................. 7.5
SPECIFIC CONDUCTANCE... 850
TOTAL DISSOLVED SOLIDS... 218

ANALYSIS IN PPM
AC... 0.20
AL... 35
AG... 0.19
B... 0.62
Ba... 35
Cr... 0.3
Fe... 35
HE... 35
HCO3... 186
K... 0.9
MG... 6.3
NA... 50
P... 50
SiO2... 14
S... 14
Ca... 10

ISOPODES (°/°)

QUALIFICATION FIELD..... TEMP RANGE 15-20 °C
REFERENCE AND IDENTIFICATION
COMPILED BY.............. MURPHY, P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE................ CARPENTER AND OTHERS, 1964

--end--
<table>
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<tr>
<th>Location</th>
<th>Township-Range</th>
<th>Coordinates</th>
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<tbody>
<tr>
<td>TIC A BOO SPRING</td>
<td>35S 012E 27 NE OF SW OF SW</td>
<td>LAT/LONG: 37-44.90 N 110-34.63 W</td>
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<td>UTH ZONE: 12</td>
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<td>NORTHING: 4175959.537910</td>
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</table>

**Pertinent Lithology:** Upper Jurassic "Carmel Formation".

**Water Analysis**

- **Specific Conductance:** 480 µS/cm
- **Total Dissolved Solids:** 268 mg/L
- **Charge Imbalance (‰ UFF):** 0.7

**Analysis in mg/L**

<table>
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<th>Anion</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Cl</td>
<td>24</td>
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<tr>
<td>SO4</td>
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</tr>
<tr>
<td>NO3</td>
<td>1.1</td>
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<tr>
<td>HCO3</td>
<td>197</td>
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<tr>
<td>Na</td>
<td>20</td>
</tr>
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<td>Ca</td>
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<tr>
<td>Fe</td>
<td>0.4</td>
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<tr>
<td>K</td>
<td>2.9</td>
</tr>
</tbody>
</table>

**Isotopes (‰)**

- **18O**: -0.5
- **13C**: -2.0

**Reference and Identification**

- **Compiled by:** Murphy, P.
- **Compiler Affiliation:** Utah Geological and Mineral Survey
- **Reference:** Goodwin, 1978

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**Upper Hog Spring**

- **Well/Spring Number:** 33S 013E 05-SBC
- **Latitude-Range:** 33S 013E 05 SW OF NW OF SE
- **County:** Garfield
- **Geologic Province:** 36
- **Map Reference:** Mt. Hilders 1162500

**Water Analysis**

- **Specific Conductance:** 65 µS/cm
- **Qualification Field:** Flow given as 2-6 GPM.
REFERENCE AND IDENTIFICATION
COMPILED BY........... MURPHY, P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............. HEMER AND CORDOVA 1974

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... BUCKHORN CORP.
WELL/SPRING NUMBER..... 325-08-12-8BC
LOCATION
COUNTRY.................. UNITED STATES
STATE...................... UTAH
COUNTY.................... IRON
GEOLOGIC PROVINCE.... GREAT BASIN
MAP REFERENCE.......... BUCKHORN FLAT 1124000
OTHER LOCALITY INFORMATION: ELEVATION = 5818 FT.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR......... 1974/05/21
TEMPERATURE (C)......... 24.0
WELL DEPTH (M).......... 134.1
DISCHARGE.............. 13.211. L/MIN

REFERENCES

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... BUCKHORN CORP.
WELL/SPRING NUMBER..... 325-08-12-8BC
LOCATION
COUNTRY.................. UNITED STATES
STATE...................... UTAH
COUNTY.................... IRON
GEOLOGIC PROVINCE.... GREAT BASIN
MAP REFERENCE.......... BUCKHORN FLAT 1124000
OTHER LOCALITY INFORMATION: ELEVATION = 5818 FT.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR......... 1974/05/21
TEMPERATURE (C)......... 24.0
WELL DEPTH (M).......... 134.1
DISCHARGE.............. 13.211. L/MIN

REFERENCES

GEOThERM SAMPLE FILE
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WELL/SPRING NUMBER..... 325-08-12-8BC
LOCATION
COUNTRY.................. UNITED STATES
STATE...................... UTAH
COUNTY.................... IRON
GEOLOGIC PROVINCE.... GREAT BASIN
MAP REFERENCE.......... BUCKHORN FLAT 1124000
OTHER LOCALITY INFORMATION: ELEVATION = 5818 FT.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR......... 1974/05/21
TEMPERATURE (C)......... 24.0
WELL DEPTH (M).......... 134.1
DISCHARGE.............. 13.211. L/MIN

REFERENCES

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... BUCKHORN CORP.
WELL/SPRING NUMBER..... 325-08-12-8BC
LOCATION
COUNTRY.................. UNITED STATES
STATE...................... UTAH
COUNTY.................... IRON
GEOLOGIC PROVINCE.... GREAT BASIN
MAP REFERENCE.......... BUCKHORN FLAT 1124000
OTHER LOCALITY INFORMATION: ELEVATION = 5818 FT.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR......... 1974/05/21
TEMPERATURE (C)......... 24.0
WELL DEPTH (M).......... 134.1
DISCHARGE.............. 13.211. L/MIN

REFERENCES

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... BUCKHORN CORP.
WELL/SPRING NUMBER..... 325-08-12-8BC
LOCATION
COUNTRY.................. UNITED STATES
STATE...................... UTAH
COUNTY.................... IRON
GEOLOGIC PROVINCE.... GREAT BASIN
MAP REFERENCE.......... BUCKHORN FLAT 1124000
OTHER LOCALITY INFORMATION: ELEVATION = 5818 FT.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR......... 1974/05/21
TEMPERATURE (C)......... 24.0
WELL DEPTH (M).......... 134.1
DISCHARGE.............. 13.211. L/MIN

REFERENCES

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... BUCKHORN CORP.
WELL/SPRING NUMBER..... 325-08-12-8BC
LOCATION
COUNTRY.................. UNITED STATES
STATE...................... UTAH
COUNTY.................... IRON
GEOLOGIC PROVINCE.... GREAT BASIN
MAP REFERENCE.......... BUCKHORN FLAT 1124000
OTHER LOCALITY INFORMATION: ELEVATION = 5818 FT.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR......... 1974/05/21
TEMPERATURE (C)......... 24.0
WELL DEPTH (M).......... 134.1
DISCHARGE.............. 13.211. L/MIN

REFERENCES

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... BUCKHORN CORP.
WELL/SPRING NUMBER..... 325-08-12-8BC
LOCATION
COUNTRY.................. UNITED STATES
STATE...................... UTAH
COUNTY.................... IRON
GEOLOGIC PROVINCE.... GREAT BASIN
MAP REFERENCE.......... BUCKHORN FLAT 1124000
OTHER LOCALITY INFORMATION: ELEVATION = 5818 FT.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR......... 1974/05/21
TEMPERATURE (C)......... 24.0
WELL DEPTH (M).......... 134.1
DISCHARGE.............. 13.211. L/MIN

REFERENCES

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... BUCKHORN CORP.
WELL/SPRING NUMBER..... 325-08-12-8BC
LOCATION
COUNTRY.................. UNITED STATES
STATE...................... UTAH
COUNTY.................... IRON
GEOLOGIC PROVINCE.... GREAT BASIN
MAP REFERENCE.......... BUCKHORN FLAT 1124000
OTHER LOCALITY INFORMATION: ELEVATION = 5818 FT.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR......... 1974/05/21
TEMPERATURE (C)......... 24.0
WELL DEPTH (M).......... 134.1
DISCHARGE.............. 13.211. L/MIN

REFERENCES
**PERTINENT LITHOLOGY**

AQUIFER IN QUATERNARY VOLCANIC ROCKS.

**OTHER SAMPLE INFORMATION**

WELL DRILLED 19701 IRRIGATION USE.

**WATER ANALYSIS**

<table>
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<th>Parameter</th>
<th>Value</th>
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<td>CHARGE IMBALANCE (pH DIFF)</td>
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**ANALYSIS IN MQ/L**

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</tbody>
</table>

**QUALIFICATION FIELD**

NOS 2: NOS 3.

**REFERENCE AND IDENTIFICATION**

COMPILED BY: GOODEN, H.

COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY

**GEOLOGICAL CATALOG**

NAME OF SAMPLE SOURCE: CHRISTENSEN BROS WATER WELL

WELL/SPRING NUMBER: 365-15W-20-B-22

**LOCATION**

COUNTRY: UNITED STATES

STATE: UTH

COUNTY: IRON

GEOLOGIC PROVINCE: 35

MAP REFERENCE: NEWCASTLE 112400

**SAMPLE DESCRIPTION AND CONDITIONS**

DATE/COLLECTION: 1975/12/00

TEMPERATURE: 0.95.5

WELL DEPTH: 152.6

DISCHARGE: 6435. L/MIN

PERTINENT LITHOLOGY: AQUIFER IN HULOCENE ALLUVIUM.

**WATER ANALYSIS**

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**ANALYSIS IN MQ/L**

<table>
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</table>

**QUALIFICATION FIELD**

MAX TEMP 107C BETWEEN 280-320 FOOT LEVEL.

**REFERENCE AND IDENTIFICATION**

COMPILED BY: GOODEN, H.

COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY

**ISOTOPES (0/40)**

- ISOPE: ISOTopic EVEN Particles

**RECORD 00196**

**GEOLOGICAL FILE**

GEOLOGICAL FILE ID: 00171110

**COORDINATES**

LAT/LONG: 37-39-57 N 113-33.77 W

UTM ZONE: 14

NORTHING: 4170985

EASTING: 273651
REFERENCE.............. GOODE, 1978

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... COLUMBIA IRON WELL
WELL/SPRING NUMBER...... 36S-15W-04-00-00
LOCATION
COUNTRY................. UNITED STATES
STATE.................... UTAH
COUNTY.................. IRON
GEOLOGIC PROVINCE.... GREAT BASIN
MAP REFERENCE......... NEWCASTLE 1124000
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C)...... 20.0
WELL DEPTH (M)........ 71.6
DISCHARGE................ 3501.4 L/MIN
OTHER SAMPLE INFORMATION. WELL DRILLED 1947; IRRIGATION USE.
REFERENCE AND IDENTIFICATION
COMPILED BY............ GOODE, H.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.............. SANDBERG, 1963

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... DE ARMAND #1 WELL
WELL/SPRING NUMBER...... 34S-16W-18-00
LOCATION
COUNTRY................. UNITED STATES
STATE.................... UTAH
COUNTY.................. IRON
GEOLOGIC PROVINCE.... GREAT BASIN
MAP REFERENCE......... YALE CROSSING 1124000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR........ 1976/08/08
TEMPERATURE (C)...... 145.0
WELL DEPTH (M)........ 2133.6
DISCHARGE................ 3785.3 L/MIN
OTHER SAMPLE INFORMATION. INFORMATION FROM UTAH POWER AND LIGHT CO.
WATER ANALYSIS
TOTAL DISSOLVED SOLIDS... L 4000
QUALIFICATION FIELD.... TOTAL DEPTH OF FINISHED WELL = 3747.5M.
REFERENCE AND IDENTIFICATION
COMPILED BY............ GOODE, H.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.............. GOODE, 1978

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... JUNES, L. C. WELL
WELL/SPRING NUMBER...... 34S-12W-36-ABB
LOCATION
COUNTRY................. UNITED STATES
STATE.................... UTAH
COUNTY.................. IRON
GEOLOGIC PROVINCE.... GREAT BASIN
MAP REFERENCE......... NEWCASTLE 1124000
SAMPLE DESCRIPTION AND CONDITIONS
LAT/LONG... 37-41.52 N 113-32.25 W
UTH ZONE........ +12
NORTHING........ 276309.
OTHER SAMPLE INFORMATION. WELL DRILLED 1947; IRRIGATION USE.
REFERENCE AND IDENTIFICATION
COMPILED BY............ GOODE, H.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.............. GOODE, 1978
COUNTY................. IRON
GEOLOGIC PROVINCE... 35
MAP REFERENCE...... THE THREE PEAKS 1124000
OTHER LOCALITY INFORMATION: ELEVATION = 5625 FT.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/Collector...... 1974/09/10
TEMPERATURE (C)..... 20.0
PERSISTENT LITHOLOGY.... AQUIFER IN QUATERNARY GRAVEL.
OTHER SAMPLE INFORMATION: STOCK USE.

WATER ANALYSIS
PH................. 7.9
SPECIFIC CONDUCTANCE.... 1000.
TOTAL DISSOLVED SOLIDS... 653.
MILLIBIOMETERS: 180.
CHARGE IMBALANCE IN % DIFF. 2.5
ANALYSIS IN mg/l
AL........... 0.12
Ca........... 0.12
Mg........... 52
Na........... 20
K........... 0.4
HCO3........ 139
SO4........ 336
Cl........... 40

ISOTOPE (0/00)

REFERENCE AND IDENTIFICATION
COMPILED BY........... GOODE, H.
COMPILER AFFILIATION.... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............ BJORKLUND AND OTHERS; 1977

RECORD 00200
GEOTHERM FILE 101 0017117

GEOATHERM SAMPLE FILE
NAME OF SAMPLE SOURCE.... PICKERILL V, OBSERVATION WELL
WELL/SPRING NUMBER...... 308-15W-10-ACCC
LOCATION
COUNTRY............. UNITED STATES
STATE............... UTAH
COUNTY.............. IRON
GEOLOGIC PROVINCE... 35
MAP REFERENCE...... NEWCASTLE 1124000
OTHER LOCALITY INFORMATION: ELEVATION = 5625 FT.
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C)..... 15.3
WELL DEPTH (M)....... 121.9
DISCHARGE........... 3596. L/MIN
OTHER SAMPLE INFORMATION: WELL DRILLED 19511 IRRIGATION USE.
REFERENCE AND IDENTIFICATION
COMPILED BY........... GOODE, H.
COMPILER AFFILIATION.... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............ SANDBERG; 1963

RECORD 00201
GEOTHERM FILE 101 0017222

GEOATHERM SAMPLE FILE
NAME OF SAMPLE SOURCE.... VANDENBURGE G.
WELL/SPRING NUMBER...... 375-12W-11-AAB
LOCATION
COUNTRY............. UNITED STATES
STATE............... UTAH
COUNTY.............. IRON
GEOLOGIC PROVINCE... 35
MAP REFERENCE...... NEWCASTLE 1124000
OTHER LOCALITY INFORMATION: ELEVATION = 5625 FT.
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C)..... 15.3
WELL DEPTH (M)....... 121.9
DISCHARGE........... 3596. L/MIN
OTHER SAMPLE INFORMATION: WELL DRILLED 19511 IRRIGATION USE.
REFERENCE AND IDENTIFICATION
COMPILED BY........... GOODE, H.
COMPILER AFFILIATION.... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............ SANDBERG; 1963

RECORD 00201
GEOTHERM FILE 101 0017222
COUNTY............. IRON
GEOLOGIC PROVINCE... GREAT BASIN
MAP REFERENCE...... KANARRAVILLE 1124000

OTHER LOCALITY INFORMATION: ELEVATION = 5490 FT.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR........ 1959/07/13
TEMPERATURE (C)........ 21.1
WELL DEPTH (M).......... 111.3
OTHER SAMPLE INFORMATION: WELL DRILLED 1953 IRRIGATION USE,

WATER ANALYSIS

PH................. 7.7
SPECIFIC CONDUCTANCE.... 586
TOTAL DISSOLVED SOLIDS... 403

ANALYSIS IN MG/L

AL........ CR...... MG...... 28
H........ F........ NA...... 34
BA........ FE+3...... NA+K...... 100
RE........ FETOT...... 0.02
CA........ 47
HC03...... 178
NO3...... 3
CL...... 12

REFERENCE AND IDENTIFICATION
COMPILER BY............. GOODE, H. C.
COMPILER AFFILIATION...... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............ SANDBERG, 1963

GEOTHERM FILE 261
NAME OF SAMPLE SOURCE... VANDENBURGE, G. B.
WELL/SOURCE NUMBER... 375-12W-31-AAA

LOCATION
COUNTRY............. UNITED STATES
STATE.............. UTAH
COUNTY............. IRON
GEOLOGIC PROVINCE... JS
MAP REFERENCE...... KANARRAVILLE 1124000
OTHER LOCALITY INFORMATION: ELEVATION = 5490 FT.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR........ 1979/06/14
TEMPERATURE (C)........ 21
WELL DEPTH (M).......... 111.3
OTHER SAMPLE INFORMATION: WELL DRILLED 1953 IRRIGATION USE,

WATER ANALYSIS

PH................. 7.8
SPECIFIC CONDUCTANCE.... 586
TOTAL DISSOLVED SOLIDS... 403

ANALYSIS IN MG/L

AG........ CO3...... N
AL........ CR...... MG...... 30
H........ F........ NA...... 31
RE........ FETOT...... 0.02
CA........ 47
HC03...... 180
NO3...... 0.9
CL...... 12

REFERENCE AND IDENTIFICATION

ISO TOPES 10/001

LAT/LONG........... 37.36.10 N 113.09.73 W
UTM ZONE.............. 12
NORTHING........... 4163758.
EASTING............ 399324.

REFERENCE AND IDENTIFICATION
GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE: BAKER (ABRAHAM OR CRATER) HOT SPRINGS
WELL/SPRING NUMBER: 145-08W-10-D

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: JUAB
GEOLOGIC PROVINCE: GREAT BASIN
MAP REFERENCE: BAKER HOT SPRINGS 1124000
OTHER LOCALITY INFORMATION: 18 MILES N-NW of "Delta".

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1927/11/12
POTENTIALLY LITHOLOGY: FLOOR OF "SLEEPER DESERT" ALONG THE EAST SIDE OF A QUATERNARY BASALT FLOW.
OTHER SAMPLE INFORMATION: SPRINGS ISSUE FROM A 15' HIGH X SEVERAL HUNDRED FEET DIAMETER TUFAN MOUND.

MAJOR ANALYSIS
TOTAL DISSOLVED SOLIDS: 3170
ANALYSIS IN MG/L
BA: 4 N
K: 703
Na: 504
Cl: 569

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MUNDORFF, 1970

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE: BAKER (ABRAHAM OR CRATER) HOT SPRINGS
WELL/SPRING NUMBER: 145-08W-10-D

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: JUAB
GEOLOGIC PROVINCE: GREAT BASIN
MAP REFERENCE: BAKER HOT SPRINGS 1124000
OTHER LOCALITY INFORMATION: 18 MILES N-NW of "Delta".

SAMPLE DESCRIPTION AND CONDITIONS
SAMPLE NUMBER: H
TEMPERATURE (C): 82.2
DISCHARGE: 0.946.3
DEPOSITS OR ALTERATION: SPRING AT TOP OF A TRAVERTINE MOUND
POTENTIALLY LITHOLOGY: FLOOR OF "SLEEPER DESERT" ALONG THE EAST SIDE OF A QUATERNARY BASALT FLOW.
OTHER SAMPLE INFORMATION: SPRINGS ISSUE FROM A 15' HIGH BY SEVERAL HUNDRED FEET DIAMETER TUFAN MOUND DISCHARGE.
REPORTED BY THOMAS, H.E. (1938) AS 300G/L MIN.

MAJOR ANALYSIS
pH: 6.84
ALKALINITY: AS MC03
TOTAL DISSOLVED SOLIDS: 3748.
**ANALYSIS IN MG/L**

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<thead>
<tr>
<th>Element</th>
<th>Co3</th>
<th>L1</th>
<th>S</th>
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</thead>
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<tr>
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<td>0.0043</td>
<td>0.0014</td>
<td>0.63</td>
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<tr>
<td>As</td>
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<td>Au</td>
<td>0.0014</td>
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</tr>
<tr>
<td>Fe</td>
<td>0.086</td>
<td>0.0057</td>
<td>0.0057</td>
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<td>0.00829</td>
<td>0.00829</td>
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<td>0.029</td>
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<tr>
<td>P2</td>
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**QUALIFICATION FIELD**

Temp decreases outward from center spring to 64.4°C at edge. Discharge is total of all springs.

---

**GEOTHERMAL SAMPLE FILE**

**NAME OF SAMPLE SOURCE**: BAKER (ABRAHAM OR CRATER) HOT SPRINGS

**WELL/SPRING NUMBER**: 14S-08W-10-D

**LOCATION**

- **COUNTRY**: UNITED STATES
- **STATE**: UTAH
- **COUNTY**: Juab
- **MAP REFERENCE**: BAKER HOT SPRINGS 1124000

**SAMPLE DESCRIPTION AND CONDITIONS**

- **DATE/COLLECTOR**: 1967/07/13
- **TEMPERATURE**: 98.2°C
- **DISCHARGE**: 0.946 L/min
- **OTHER LOCALITY INFORMATION**: 18 MILES N-NW OF "DELTA"

**WAIFE ANALYSIS**

- **PH**: 7.3
- **TOTAL DISSOLVED SOLIDS**: 5570 PPM

**ANALYSIS IN PPM**

<table>
<thead>
<tr>
<th>Element</th>
<th>Co3</th>
<th>L1</th>
<th>S</th>
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<tbody>
<tr>
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<td>As</td>
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<tr>
<td>Fe</td>
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<tr>
<td>Ca</td>
<td>0.029</td>
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<tr>
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**QUALIFICATION FIELD**

Temp decreases outward from center spring to 64.4°C at edge. Discharge is total of all springs.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MUNDOHFF; 1970

GEOGRAPHIC SAMPLE FILE
NAME OF SAMPLE SOURCE: BAKER (ABRAHAM OR CRATER) HOT SPRINGS
WELL/SPRING NUMBER: 145-008W-10

COORDINATES
LAT/LONG: 39°36.8 N 112°43.7 W
UTH ZONE: 12
NORTHING: 4380060
ETERING REFERENCE: BAKER HOT SPRINGS 112400

OTHER LOCALITY INFORMATION: 18 MILES N-NW OF "DELAH." ONE MILE
CONFIRMED AT SPRING LOCATED
AND IN 1/4 MILE OF "DIADEME." SPRING LOCATED
K MOUTH DISCHARGE
REPEATED BY THOMAS; H.E. (1939) AS 3000 L/MIN.

WATER ANALYSIS
PH: 6.48
ALKALINITY: 156. AS HCO3
TOTAL DISSOLVED SOLIDS: 3692. mg/L

ANALYSIS IN mg/L

<table>
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<tr>
<th>Ion</th>
<th>0.002</th>
<th>0.25</th>
<th>830</th>
<th>86</th>
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<th>0.02</th>
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GAS ANALYSIS

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<tr>
<td>CO2</td>
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</tr>
</tbody>
</table>

QUALIFICATION FIELD: TEMP DECREASES OUTWARD FROM CENTER SPRING TO 64.4°C AT EDGE. DISCHARGE IS TOTAL OF ALL SPRINGS. GAS ANALYSES ARE FOR A MILI DIA.
WELL/SPRING NUMBER....... 115-14W-23
LOCATION
COUNTRY............... UNITED STATES
STATE................. UTAH
COUNTY.............. JUAB
GEOLOGIC PROVINCE... 35
MAP REFERENCE....... FISH SPRINGS SW 1124000
OTHER LOCALITY INFORMATION: SPRINGS ARE SCATTERED OVER A FOUR SQUARE MILE AREA! UNKNOWN WHICH SPRING THE SAMPLE WAS TAKEN FROM.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR....... 1967/07/12
DISCHARGE............ E 283.9
OTHER SAMPLE INFORMATION: OTHER ORIFICES HAVE COMPARABLE QUALITY WITH TEMP RANGC.
WATER ANALYSIS
PH.................. 7.2
SPECIFIC CONDUCTANCE.. 1690.
TOTAL DISSOLVED SOLIDS.. 1620.
ANALYSIS IN ppm
Ag...... 0.025  Ca...... L 0.0016  Li...... 0.33
As...... CS...... L 0.0014  Mg...... 26.
Au...... CU...... L 0.0014  Mn...... 0.0014
H...... 0.79  F...... 2.  Na...... 470.  Si02.. 29.
Be...... L 0.00057  Fe(Tot). 0.11  Nb...... 504.  Sio2.. 340.
B...... 0.0029  Ga...... L 0.0057
Br...... 1.3  Ge...... L 0.0029  Ni...... 0.0025
Ca...... 136.  HCl...... 312  No3.. N
Ca+Mg... 136.  Mg...... 312  No3.. N
Co...... L 0.0014  H20...... 0.02  PO4...... 0.001
Cl...... 630.  H...... 36  Zn...... 0.11
CO3...... L 0.0014  K...... 36
REFERENCE AND IDENTIFICATION
COMPILED BY............ MURPHY, P.
COMPILED AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.............. MUNDORFF, 1970

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RECORD 00208
GEOTHERMAL FILL 111 00117224

WELL/SPRING NUMBER....... (C-12- 112AAAC-51
LOCATION
COUNTRY............... UNITED STATES
STATE................. UTAH
COUNTY.............. JUAB
GEOLOGIC PROVINCE... SANTOQUIN 1162500
MAP REFERENCE....... 1162500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR....... 1965/07/15
DISCHARGE............ 4.9 L/MIN
WATER ANALYSIS
PH.................. 7.2
SPECIFIC CONDUCTANCE.. 1690.
TOTAL DISSOLVED SOLIDS.. 1620.
ANALYSIS IN PPM

AG.... CO3.... N
AL.... CR....
H.... F....
NA.... FE-3....
BE.... Fe+2...
CA.... 69...
HC03.... 222.
CL.... 308.

REFERENCE AND IDENTIFICATION

COMPILER
GOODE, M.
COMPILER AFFILIATION
UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE
RJORKLUND, 1967

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE... BADGER, F.
LOCATION
COUNTRY............. UNITED STATES
STATE.............. UTAH
COUNTY............ MILLARD
GEOLOGIC PROVINCE... 35
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1943/03/02
TEMPERATURE (°F)... 22.2
WELL DEPTH (M)..... 91.
DISCHARGE........... 303. L/MIN

REFERENCE AND IDENTIFICATION

COMPILER
GOODE, M.
COMPILER AFFILIATION
UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE
HOFER, 1963

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE... CHRISTENSEN BROS.
LOCATION
COUNTRY............. UNITED STATES
STATE.............. UTAH
COUNTY............ MILLARD
GEOLOGIC PROVINCE... 35
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1960/03/08
TEMPERATURE (°F)... 22.2
WELL DEPTH (M)..... 247.
DISCHARGE........... 45. L/MIN

REFERENCE AND IDENTIFICATION

COMPILER
GOODE, M.
COMPILER AFFILIATION
UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE
HOFER, 1963

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE... COTYNE M.
LOCATION
COUNTRY............. UNITED STATES
STATE.............. UTAH
COUNTY............ MILLARD
GEOLOGIC PROVINCE... 35
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: MILLARD
GEOLOGIC PROVINCE: 35
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION: 1977/07/00
TEMPERATURE (C): 20
WATER ANALYSIS
PH: 7.8
CHARGE IMBALANCE (% DIFF): 0.4
ANALYSIS IN mg/L
AL: 66
Fe: 0.07
RE: 21
Mg: 96
CA: 218
HCO3: 170
K: 5.6
REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: PAHRY AND CLEARY, 1978

GEOHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: COYOTE S.
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: MILLARD
GEOLOGIC PROVINCE: 35
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION: 1977/07/00
TEMPERATURE (C): 20
WATER ANALYSIS
PH: 6.8
CHARGE IMBALANCE (% DIFF): 0.4
ANALYSIS IN mg/L
AL: 53
Fe: 0.37
RE: 16
Mg: 75
CA: 164
HCO3: 135
K: 3.6
REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: PAHRY AND CLEARY, 1978

GEOHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: COYOTE SPRING
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: MILLARD
GEOLOGIC PROVINCE: 35
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION: 1977/07/00
TEMPERATURE (C): 20
WATER ANALYSIS
PH: 6.8
CHARGE IMBALANCE (% DIFF): 0.4
ANALYSIS IN mg/L
AL: 53
Fe: 0.37
RE: 16
Mg: 75
CA: 164
HCO3: 135
K: 3.6
REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: PAHRY AND CLEARY, 1978
Published by: MURPHY, P.
Compiler affiliation: UTAH GEOLOGICAL AND MINERAL SURVEY
Reference: NIXON AND FELTIS, 1964

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... DEVIL'S RIDGE SPRING
LOCATION
COUNTRY... UNITED STATES
STATE... UTAH
COUNTY... MILLARD
GEOLOGIC PROVINCE...
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C)... 18.0
REFERENCE AND IDENTIFICATION
Compiler by... GOODE, H.
Compiler affiliation... UTAH GEOLOGICAL AND MINERAL SURVEY
Reference... DENNIS AND OTHERS, 1946

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... DMD IIHR
LOCATION
COUNTRY... UNITED STATES
STATE... UTAH
COUNTY... MILLARD
GEOLOGIC PROVINCE...
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1960/06/02
TEMPERATURE (C)... 20.0
WATER ANALYSIS
PH... 7.9
SPECIFIC CONDUCTANCE... 325.0
TOTAL DISSOLVED SOLIDS... 280.0
CHARGE IMBALANCE (% DIFF)... 2.8
ANALYSIS IN MG/L
AN... 18.0
AL... 0.08
F... 0.2
NO3... 15.0
HCO3... 180.0
CO3... 40.0
ISOPODES (0/00)

Compiler by... MURPHY, P.
Compiler affiliation... UTAH GEOLOGICAL AND MINERAL SURVEY
Reference... NIXON AND FELTIS, 1964

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... DMD IIHR
LOCATION
COUNTRY... UNITED STATES
STATE... UTAH
COUNTY... MILLARD
GEOLOGIC PROVINCE...
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1960/06/02
TEMPERATURE (C)... 20.0
WATER ANALYSIS
PH... 7.9
SPECIFIC CONDUCTANCE... 325.0
TOTAL DISSOLVED SOLIDS... 280.0
CHARGE IMBALANCE (% DIFF)... 2.8
ANALYSIS IN MG/L
AN... 18.0
AL... 0.08
F... 0.2
NO3... 15.0
HCO3... 180.0
CO3... 40.0
ISOPODES (0/00)

Compiler by... MURPHY, P.
Compiler affiliation... UTAH GEOLOGICAL AND MINERAL SURVEY
Reference... NIXON AND FELTIS, 1964
STATE.............. UTAH
COUNTY............. MILLARD
GEOLOGIC PROVINCE...
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1967/09/27
TEMPERATURE (°C).... 21.7
WATER ANALYSIS
PH.................. 7.8
SPECIFIC CONDUCTANCE... 491.
TOTAL DISSOLVED SOLIDS... 280.
ANALYSIS IN Mg/L
Al........ 0.07  Cr........ 0.3  Mg.... 502.
Ca........ 31  Fe(Tot).... 152  Na.... 504.
Cl........ 52  K........ 2.3  NO3.... 56.
ISOPIPS (0/001)

REFERENCE AND IDENTIFICATION
COMPILER BY.......... MUDDH, M.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............ HUNTER AND FELTIS; 1964

RECORD 00219
GEOTHERM FILE 101 0017269

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STATE.............. UTAH
COUNTY............. MILLARD
GEOLOGIC PROVINCE...
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1967/09/27
TEMPERATURE (°C).... 21.7
WATER ANALYSIS
PH.................. 7.8
SPECIFIC CONDUCTANCE... 491.
TOTAL DISSOLVED SOLIDS... 280.
ANALYSIS IN Mg/L
Al........ 0.07  Cr........ 0.3  Mg.... 502.
Ca........ 31  Fe(Tot).... 152  Na.... 504.
Cl........ 52  K........ 2.3  NO3.... 56.
ISOPIPS (0/001)

REFERENCE AND IDENTIFICATION
COMPILER BY.......... MUDDH, M.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............ HUNTER AND FELTIS; 1964

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COUNTY: MILLARD
GEOLeGIC PROVINCe: 35
SAMPLE DESCRIPTION AND CONDITIONS
DATE/EXPLORER: 1967/07/12
TEMPERATURE (C): 26.6
DISCHARGE: 34068
WALERS ANALYSIS
PH: 7.6
SPEClIFIC CONDUCTANCE: 48.5
TOTAL DISSOLVED SOLIDS: 288
CHARGE IMBALANCE (% DIFF.): 2.6
ANALYSIS IN MG/L
A: 0.1
AG: 100
CH: 0.7
NA: 29
HE: 50
FE(II): 250
NO3: 1.9
CL: 26
CO3: 36
K: 36

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MURPHY, 1970

GEOHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE: GARDNER, J., F., AND R. H.
LOCATION
COUNTY: UNITED STATES
STATE: UTAH
CITY: MILLARD
GEOLeGIC PROVINCe: 35
SAMPLE DESCRIPTION AND CONDITIONS
DATE/EXPLORER: 1963/05/03
TEMPERATURE (C): 27.8
WELL DEPTH (M): 250
DISCHARGE: 7571
WALERS ANALYSIS
PH: 7.3
SPEClIFIC CONDUCTANCE: 379
TOTAL DISSOLVED SOLIDS: 239
ANALYSIS IN MG/L
A: 0.1
AG: 9.2
CH: 1
NA: 51
HE: 141
FE(II): 1
NO3: 1.4
CL: 141

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MURPHY AND FEITIS, 1964
### Geothermal Sample File

**NAME OF SAMPLE SOURCE**: GOLDEN HARVEY IRR

**COUNTRY**: UNITED STATES
**STATE**: UTAH
**COUNTY**: MILLARD
**GEOLOGIC PROVINCE**: 35

**SAMPLE DESCRIPTION AND CONDITIONS**
- DATE/COMMISSIONER: 1959/05/22
- TEMPERATURE (OF): 25.6
- WELL DEPTH (MT): 257.
- DISCHARGE: 526.
- OTHER SAMPLE INFORMATION: WELL PERFORATED 502-842

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### Reference and Identification

**COMPILED BY**: MURPHY, P.
**COMPILER AFFILIATION**: UTAH GEOLOGICAL AND MINERAL SURVEY
**REFERENCE**: MOWER AND FELTIS, 1964

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### Geothermal Sample File

**NAME OF SAMPLE SOURCE**: GOLDEN HARVEY IRR

**COUNTRY**: UNITED STATES
**STATE**: UTAH
**COUNTY**: MILLARD
**GEOLOGIC PROVINCE**: 35

**SAMPLE DESCRIPTION AND CONDITIONS**
- DATE/COMMISSIONER: 1963/04/23

### Water Analysis

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COMPILED BY : H. MURPHY, P.
COMPILER AFFILIATION : UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE : NORMAN AND FELTIS, 1964

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE : HANSEN, D. L.

LOCATION
COUNTRY : UNITED STATES
STATE : UTAH
COUNTY : MILLARD

COORDINATES
LAT/LONG : 39-24.84 N 112-35.76 W
UTM ZONE : 12
NORTHING : 11263727.

SAMPLI DESCRIPTION AND CONDITIONS
DATE/COLLECTION : 1965/06/13
TEMPERATURE (C) : 21.7
WELL DEPTH (M) : 91.

WATER ANALYSIS
pH : 7.8
SPECIFIC CONDUCTANCE : 824.
TOTAL DISSOLVED SOLIDS : 492.

ANALYSIS IN MG/L
AG : 0.1
AL : 0.1
H : 0.1
HA : 0.1
RE : 0.1
CA : 11.
M : 192.

REFERENCE AND IDENTIFICATION
COMPILED BY : GOODE, H.
COMPILER AFFILIATION : UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE : NORMAN AND FELTIS, 1964

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE : MART, C. D.

LOCATION
COUNTRY : UNITED STATES
STATE : UTAH
COUNTY : MILLARD

COORDINATES
LAT/LONG : 39-17.16 N 112-33.72 W
UTM ZONE : 12
NORTHING : 4349469.

SAMPLI DESCRIPTION AND CONDITIONS
DATE/COLLECTION : 1962/07/03
TEMPERATURE (C) : 21.7
WELL DEPTH (M) : 172.
DISCHARGE : 227. L/MIN

WATER ANALYSIS
pH : 7.8

REFERENCE AND IDENTIFICATION
COMPILED BY : GOODE, H.
COMPILER AFFILIATION : UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE : NORMAN AND FELTIS, 1964
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Compiled by: Murphy, P.
Compiler Affiliation: Utah Geological and Mineral Survey
Reference: Hood and Rush, 1965

### Geothermal Sample File

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Other Sample Information: P.01

Specific Conductance: 1320.
Total Dissolved Solids: 621.
Change in Imbalance (% Diff.): 15.6

Analysis in mg/L

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Isotopes (1/00)

Reference: Stephens, 1977

### Geothermal Sample File

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**Sample Description and Conditions**

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**Isotopes (0/00)**

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**Reference and Identification**

Compiled by: Murphy, P.  
Compiler Affiliation: Utah Geological and Mineral Survey  
Reference: Mower and Feltis, 1964
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**REFERENCE AND IDENTIFICATION**

**Compiled by:** G. K. Murphy, P.

**Geologic Survey:** UTAH GEOLOGICAL AND MINERAL SURVEY

**REFERENCE:** MUNDOFF, 1970
AL... CR....... MG... 47.
Cl... F....... NA... 1005.
BE... FE(FeT) 0.12 NO... 50.
Ca... 449. HCO3... 498.
Cl... 1800. K... 130.

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: PARRY AND CLEARY, 1978

---

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: MEADOW HOT SPRINGS

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: MILLARD
GEOLOGIC PROVINCE: 35

SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C): 41.0
DISCHARGE: 226. L/MIN

DATE/ANALYST: 1967/05/00
PH: 7.5
CHARGE IMBALANCE (% DIFF): 6.6

ANALYSIS
A... CO3... Li... 3.2
AL... 4.0 Cr... 5.5 NA... 1020.
Cl... 43. HCO3... 408.
Be... 4.0 Fe(FeT) 0.45
Br... 1800.

REFERENCE AND IDENTIFICATION
COMPILED BY: RENNEN, J.
COMPILER AFFILIATION: U.S. GEOLOGICAL SURVEY
REFERENCE: MUNDOFF, 1970

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GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: MEADOW HOT SPRINGS

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: MILLARD
GEOLOGIC PROVINCE: 35

SAMPLE DESCRIPTION AND CONDITIONS
DATE/ANALYST: 1976/07/06
TEMPERATURE (C): 30.
WELL DEPTH (M): 10.3

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
GEOThermal SAMPLE FILE
NAME OF SAMPLE SOURCE... MEADOW HOT SPRINGS
LOCATION
COUNTRY............. UNITED STATES
STATE.............. UTAH
COUNTY............ MILLARD
GEOLOGIC PROVINCE...
SAMPLE DESCRIPTION AND CONDITIONS
DATE/collector........ 1959/08/27
TEMPERATURE (C)...... 32.2
WATER ANALYSIS
PH................... 7.2
SPECIFIC CONDUCTANCE.... 7270.
TOTAL DISSOLVED SOLIDS... 4850.
ANALYSIS IN MG/L
B........... 10.
HA........... Fe+3.....
RE........... Fe+2(Total)
CA........... 68.
Other........... 1820.
ISOTOPES 18/16O
REFERENCE AND IDENTIFICATION
COMPILED BY.............. HUMPHREY, P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE................ MUNDONFF, 1970

GEOThermal SAMPLE FILE
NAME OF SAMPLE SOURCE... MEADOW HOT SPRINGS
LOCATION
COUNTRY............. UNITED STATES
STATE.............. UTAH
COUNTY............ MILLARD
GEOLOGIC PROVINCE...
SAMPLE DESCRIPTION AND CONDITIONS
DATE/collector........ 1957/06/18
WATER ANALYSIS
PH................... 7.0
SPECIFIC CONDUCTANCE.... 7360.
TOTAL DISSOLVED SOLIDS... 4690.
ANALYSIS IN MG/L
AL........... 6.
HA........... Fe+3.....
RE........... Fe+2(Total)
CA........... 47.
Other........... 1780.
ISOTOPES 18/16O
REFERENCE AND IDENTIFICATION
COMPILED BY.............. HUMPHREY, P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE................ MUNDONFF, 1970
BEGIN DOCUMENT

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE: MEADOWS HOT SPRINGS

LOCATION

COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: MILLARD
TOPOGRAPHIC PROVINCE: 35

SAMPLE DESCRIPTION AND CONDITIONS

DATE/Collector: 1943/04/08
TEMPERATURE (C): 35

WATER ANALYSIS

SPECIFIC CONDUCTANCE: 7350
TOTAL DISSOLVED SOLIDS: 4810

ANALYSIS IN MG/L

H: 3.9
Na: 150
K: 1150
Cl: 1830
Ca: 452
Mg: 464

REFERENCE AND IDENTIFICATION

COMPILER: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MUNDOFF, 1970

END DOCUMENT

BEGIN DOCUMENT

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE: MEADOWS E.

LOCATION

COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: MILLARD
TOPOGRAPHIC PROVINCE: 35

SAMPLE DESCRIPTION AND CONDITIONS

DATE/Collector: 1977/07/00
TEMPERATURE (C): 24

WATER ANALYSIS

PH: 7.0
CHANGE IMBALANCE (% DIFF.): 5.1

ANALYSIS IN MG/L

Ca: 168
Mg: 167
Na: 1176
Cl: 454

REFERENCE AND IDENTIFICATION

COMPILER: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: PARRY AND CLEARY, 1978

END DOCUMENT
GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE: MOODY, R. D.
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: MILLARD
GEOLeGIC PROVINCE:
SAMPLE DESCRIPTION AND CONDITIONS
DATE/collector: 1957/11/15
TEMPERATURE (°C): 26.1
WELL DEPTH (M): 250.
WATER ANALYSIS
P: 8.1
SPECIFIC CONDUCTANCE: 448.
TOTAL DISSOLVED SOLIDS: 292.
ANALYSIS IN MG/L
NO3: 15
Mg: 4.9
SO2: 3.4
Na: 40
Ca: 14
HCO3: 15.4
Cl: 43.
REFERENCE AND IDENTIFICATION
COMPILED BY: HURLEY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MOWER AND FELTIS, 1964

---

GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE: NEEL RN
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: MILLARD
GEOLeGIC PROVINCE:
SAMPLE DESCRIPTION AND CONDITIONS
WELL DEPTH (M): 426.
TOTAL DISSOLVED SOLIDS: 3345.
ANALYSIS IN MG/L
NO3: 15
Mg: 4.9
SO2: 3.4
Na: 40
Ca: 14
HCO3: 15.4
Cl: 43.
REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: LEE, 1908
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**Sample Description and Conditions**

- Date/Collector: 1960/03/16
- Temperature (°C): 20.6
- Well Depth (m): 191
- Discharge: 4921 L/min

**Reference and Identification**

- Compiled By: Goode, M.
- Compiler Affiliation: Utah Geological and Mineral Survey
- Reference: Zobitzky, 1962

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**Sample Description and Conditions**

- Date/Collector: 1962/06/22
- Temperature (°C): 20.6
- Well Depth (m): 294
- Discharge: 6549 L/min

**Water Analysis**

- pH: 7.9
- Specific Conductance: 601 µS
- Total Dissolved Solids: 363 mg/L

**Isotopes (O/18)**

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**Reference and Identification**

- Compiled By: Murphy, P.
- Compiler Affiliation: Utah Geological and Mineral Survey
- Reference: Howen and Feltis, 1964

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**Sample Description and Conditions**

- Date/Collector: 1962/06/22
- Temperature (°C): 20.6
- Well Depth (m): 294
- Discharge: 6549 L/min

**Water Analysis**

- pH: 7.9
- Specific Conductance: 601 µS
- Total Dissolved Solids: 363 mg/L

**Isotopes (O/18)**

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**Reference and Identification**

- Compiled By: Murphy, P.
- Compiler Affiliation: Utah Geological and Mineral Survey
- Reference: Howen and Feltis, 1964
COUNTRY............ UNITED STATES 17S 007W 34 NW OF SE
STATE.............. UTAH
COUNTY............ MILLARD
GEOLoGIC PROVINCE.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/Collector......... 1963/08/27
TEMPERATURE (°C)...... 21.7
WELL DEPTH (M)........ 182.
DISCHARGE............. 19.

OTHER SAMPLE INFORMATION... OTHER ANALYSES IN BASIC DATA REPORT 9.

REFERENCE AND IDENTIFICATION
COMPILED BY........... MURPHY P.
COMPILED AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............. MOWER AND FELTIS 1964

---

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... ROHISON, W.
LOCATION
COUNTRY............ UNITED STATES 18S 008W 24 NW OF NE
STATE.............. UTAH
COUNTY............ MILLARD
GEOLoGIC PROVINCE.. 35
SAMPLE DESCRIPTION AND CONDITIONS
DATE/Collector......... 1961/08/02
TEMPERATURE (°C)...... 25.6
WELL DEPTH (M)........ 183.
DISCHARGE............. 34. L/MIN

WATER ANALYSIS
PH.................. 8.0
SPECIFIC CONDUCTANCE.. 3820.
TOTAL DISSOLVED SOLIDS 2250.

ANALYSIS IN MG/L
Ag............ 0.03
AL............ 0.00
AO............ 0.00
NO............ 0.00
N03............ 8.0
Ca............ 22.
Mg............ 16.
Na............ 79.
CR............ 0.
F............ 0.01
Fe+3......... 0.22
HCO3........ 2.2

REFERENCE AND IDENTIFICATION
COMPILED BY........... GOODOE H.
COMPILED AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............. MOWER AND FELTIS 1964

---

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... ROSS: C. K.
LOCATION
COUNTRY............ UNITED STATES 17S 006W 33 SW OF SE
STATE.............. UTAH
COUNTY............ MILLARD
GEOLoGIC PROVINCE.

SAMPLE DESCRIPTION AND CONDITIONS
LATITUDE/LONGITUDE........ 39°17'10" N 112°32'21" W
UTM ZONE............... 12
NORTHING............... 3544954.
LATITUDE/LONGITUDE........ 39°17'34" N 112°31'42" W
UTM ZONE............... 12
NORTHING............... 3544256.
LATITUDE/LONGITUDE........ 39°17'34" N 112°31'42" W
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NORTHING............... 3544256.
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NORTHING............... 3544256.
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**Geothermal Sample File**

**Name of Sample Source**: Skunk Spring

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**Sample Description and Conditions**

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**Geothermal Analysis**

- Specific Conductance: 2700 μS/cm
- Total Dissolved Solids: 1580 mg/L
- **Calcium** (Ca++): 240 mg/L
- **Magnesium** (Mg++): 110 mg/L
- **Sodium** (Na+): 170 mg/L
- **Potassium** (K+): 98 mg/L
- **Chloride** (Cl-): 640 mg/L

**Carbonate** (CO3^-): 2.8 mg/L

**Reference and Identification**

**Compiled By**: **Murphy, P.**
**Compiler Affiliation**: Utah Geological and Mineral Survey

**Record**: 00263

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**Geothermal Sample File**

**Name of Sample Source**: Theobald, P.

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**Sample Description and Conditions**

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**Geothermal Analysis**

- Specific Conductance: 400 μS/cm

**Reference and Identification**

**Compiled By**: **Murphy, P.**
**Compiler Affiliation**: Utah Geological and Mineral Survey

**Record**: 00264
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Compiled by: Murphy, P.
Compiler Affiliation: Utah Geological and Mineral Survey
Reference: How & Felts 1964
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Reference and Identification
Compiled by: Murphy, P.
Compiler Affiliation: Utah Geological and Mineral Survey
Reference: Stover and Felts, 1964

Geothermal Sample File
Name of Sample Source: Tule Spring Group
Location
Country: United States
State: Utah
County: Millard
Geologic Province: JAGQ
Sample Description and Conditions
Date/Collector: 1974/09/19
Temperature (°C): 27.0
Water Analysis
Specific Conductance: 1575
Reference and Identification
Compiled by: Goode, H.
Compiler Affiliation: Utah Geological and Mineral Survey
Reference: Stephens, 1977

Geothermal Sample File
Name of Sample Source: Tule Spring Group
Location
Country: United States
State: Utah
County: Millard
Geologic Province: JAGQ
Sample Description and Conditions
Date/Collector: 1962/09/12
Temperature (°C): 27.0
Water Analysis
Specific Conductance: 1530
Total Dissolved Solids: 292
Charge Imbalance (δ DIFF): 149.3

Reference and Identification
Compiled by: Murphy, P.
Compiler Affiliation: Utah Geological and Mineral Survey
Reference: Stover and Felts, 1964
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**REFERENCE AND IDENTIFICATION**

COMPILER: GOODE, M.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: STEPHENS, 1977

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**REFERENCE AND IDENTIFICATION**

COMPILER: GOODE, M.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: STEPHENS, 1977

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COMPILER: GOODE, M.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: STEPHENS, 1977
COUNTY................. MILLARD
GEOLOGIC PROVINCE... 35
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR....... 1977/07/00
TEMPERATURE (C)....... 31
WATER ANALYSIS
P........................ 7.36
CHARGE IMBALANCE (% DIFF)... 0.1
ANALYSIS IN MG/L
AL..... CR..... MG..... 49.
F..... Fe(II)..... Na..... 1292.
KE..... Fe(III).... N8..... 504.
CA..... MC03..... 248.
CL..... K......... 2050.
CO.......
REFERENCE AND IDENTIFICATION
COMPILED BY............ MURPHY, P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.............. PARRY AND CLEARY; 1978

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GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... TWIN SPRINGS
LOCATION
COUNTRY............. UNITED STATES
STATE.............. UTAH
COUNTY............. MILLARD
GEOLOGIC PROVINCE... 35
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR....... 1964/10/15
TEMPERATURE (C)....... 20.0
DISCHARGE........... 1814. L/MIN
REFERENCE AND IDENTIFICATION
COMPILED BY............ MOORE, H.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.............. HOOD AND RUSH; 1965

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GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... U.S. BUREAU OF LAND MANAGEMENT
LOCATION
COUNTRY............. UNITED STATES
STATE.............. UTAH
COUNTY............. MILLARD
GEOLOGIC PROVINCE... 35
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR....... 1960/02/15
TEMPERATURE (C)....... 42.4
WELL DEPTH (M)....... 114.
DISCHARGE........... 36. L/MIN
REFERENCE AND IDENTIFICATION
COMPILED BY............ GOODE, H.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.............. MOORE, 1963
SI020
SO@.
Y

COUNTRY........... UNITED STATES
STATE............. UTAH
COUNTY........... MILLARD

GEOLOGIC PROVINCE
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1961/09/05
TEMPERATURE (C)..... 21.1
WELL DEPTH (M)...... 167.
DISCHARGE.......... 11.
WATER ANALYSIS
SPECIFIC CONDUCTANCE..... 1500.
TOTAL DISSOLVED SOLIDS...... 834.
PH.................. 7.7

ANALYSIS IN MU/L

AG......
AL......
Ca......
Cl......
CO3......
Fe......
Mg......
Na......
K......
Fe+++......
K......
N02......
N03......

ISOIOPES (O/18)

REFERENCE AND IDENTIFICATION

COMPILED BY............ NOODE, L.
COMPILED AFFILIATION..... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCES.............. MOORE AND BELTS, 1964

---

SI025

COUNTRY........... UNITED STATES
STATE............. UTAH
COUNTY........... MILLARD

GEOLOGIC PROVINCE
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1974/09/19
TEMPERATURE (C)..... 27.5
WATER ANALYSIS
SPECIFIC CONDUCTANCE..... 1600.

REFERENCE AND IDENTIFICATION

COMPILED BY............ GORDO, M.
COMPILED AFFILIATION..... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCES.............. GORDO AND BERTHA, 1977

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SI026

COUNTRY........... UNITED STATES
STATE............. UTAH
COUNTY........... MILLARD

GEOLOGIC PROVINCE
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1974/09/19
TEMPERATURE (C)..... 27.5
WATER ANALYSIS
SPECIFIC CONDUCTANCE..... 1600.

REFERENCE AND IDENTIFICATION

COMPILED BY............ GORDO, M.
COMPILED AFFILIATION..... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCES.............. GORDO AND BERTHA, 1977
COUNTRY: UNITED STATES  165 015W 26 NE OF SW
STATE: UTAH
COUNTY: MILLARD
GEOLIGIC PROVINCE: 35

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1974/09/19
TEMPERATURE (°C): 24.5
WATER ANALYSIS
SPECIFIC CONDUCTANCE: 1700

REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: STEPHENS, 1977

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LOCATION
COUNTRY: UNITED STATES  17S 015W 25 SW OF SE
STATE: UTAH
COUNTY: MILLARD

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1974/09/19
TEMPERATURE (°C): 27.0

WATER ANALYSIS
TOTAL DISSOLVED SOLIDS: 2300

REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: STEPHENS, 1977

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LOCATION
COUNTRY: UNITED STATES  17S 015W 10 NE OF NE
STATE: UTAH
COUNTY: MILLARD

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1976/01/15
TEMPERATURE (°C): 27.5

WATER ANALYSIS
TOTAL DISSOLVED SOLIDS: 1500

REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: STEPHENS, 1977
### GEOHERM SAMPLE FILE

**NAME OF SAMPLE SOURCE**: UNNAMED SPRING

**LOCATION**
- **COUNTRY**: UNITED STATES
- **STATE**: UTAH
- **COUNTY**: MILLARD
- **GEOLOGIC PROVINCE**: 3S

**SAMPLE DESCRIPTION AND CONDITIONS**
- **DATE/COLLECTION**: 1976/00/00
- **TEMPERATURE (C)**: 22.0

**REFERENCE AND IDENTIFICATION**
- **COMPILED BY**: GOODE, H.
- **COMPILER AFFILIATION**: UTAH GEOLOGICAL AND MINERAL SURVEY
- **REFERENCE**: RUSH, 1977

**COORDINATES**
- **LAT/LONG**: 38-52.14 N 112-29.04 W
- **UTM ZONE**: +12
- **NORTHING**: 433030.8
- **EASTING**: 371255.

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### GEOHERM SAMPLE FILE

**NAME OF SAMPLE SOURCE**: UNNAMED WELL

**LOCATION**
- **COUNTRY**: UNITED STATES
- **STATE**: UTAH
- **COUNTY**: MILLARD
- **GEOLOGIC PROVINCE**: 3S

**SAMPLE DESCRIPTION AND CONDITIONS**
- **DATE/COLLECTION**: 1976/07/01
- **TEMPERATURE (C)**: 67.0
- **WELL DEPTH (M)**: 27.0

**REFERENCE AND IDENTIFICATION**
- **COMPILED BY**: MURPHY, P.
- **COMPILER AFFILIATION**: UTAH GEOLOGICAL AND MINERAL SURVEY
- **REFERENCE**: RUSH, 1977

**COORDINATES**
- **LAT/LONG**: 38-50.88 N 112-29.34 W
- **UTM ZONE**: +12
- **NORTHING**: 300755.
- **EASTING**: 370781.

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### GEOHERM SAMPLE FILE

**NAME OF SAMPLE SOURCE**: UNNAMED WELL

**LOCATION**
- **COUNTRY**: UNITED STATES
- **STATE**: UTAH
- **COUNTY**: MILLAN
- **GEOLOGIC PROVINCE**: 3S

**SAMPLE DESCRIPTION AND CONDITIONS**
- **DATE/COLLECTION**: 1953/11/20
- **TEMPERATURE (C)**: 31.0
- **WELL DEPTH (M)**: 131
- **DISCHARGE**: 757.0 L/MIN

**REFERENCE AND IDENTIFICATION**
- **COMPILED BY**: GOODE, M.
- **COMPILER AFFILIATION**: UTAH GEOLOGICAL AND MINERAL SURVEY
- **REFERENCE**: STEPHENS, 1977

**COORDINATES**
- **LAT/LONG**: 39-18.00 N 113-29.40 W
- **UTM ZONE**: +12
- **NORTHING**: 4352816.
- **EASTING**: 285281.
GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UTLEY AND STANLEY

LOCATION
COUNTRY............ UNITED STATES TOWNSHIIP-RANGE LAT/LONG...
STATE.............. UTAH 215 005W 30 NE OF NW 38-51.42 N 112-27.00 W
COUNTY............. MILLARD

COORDINATES
LAT/LONG... 38-51.42 N 112-27.00 W
UTM ZONE... +12
NORTHING... 3742797.
374369.5

SAMPLING DESCRIPTION AND CONDITIONS
DATE/COLLECTION.... 1961/03/24
TEMPERATURE (C)... 20.0
WELL DEPTH (M)... 27.9
DISCHARGE.... 4435.1 L/MIN

REFERENCE AND IDENTIFICATION
COMPILED BY........ GOODE, H.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............. HOWELL; 1963

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... WARM SPRING

LOCATION
COUNTRY............ UNITED STATES TOWNSHIIP-RANGE LAT/LONG...
STATE.............. UTAH 22S 005W 27 NW OF NW 38-51.78 N 112-30.42 W
COUNTY............. MILLARD

COORDINATES
LAT/LONG... 38-51.78 N 112-30.42 W
UTM ZONE... +12
NORTHING... 4302445.
369268.

SAMPLING DESCRIPTION AND CONDITIONS
DATE/COLLECTION.... 1943/04/08
TEMPERATURE (C)... 35.0
DISCHARGE.... 132.1 L/MIN

WATER ANALYSIS
TOTAL DISSOLVED SOLIDS... 4810.

ANALYSIS INILL
AL...... CR...... Mg......
15...... 95.

Na...... Fe+3...... Na+K...... NBS... 1152.
K...... Fe(TQ)...... NO3...... 504...... 1945.
Ca...... MgO3...... 392......
464......
Cl...... 16.3.

REFERENCE AND IDENTIFICATION
COMPILED BY........ GOODE, H.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............. DENNIS AND OTHERS; 1946

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... WARM SPRINGS

LOCATION
COUNTRY............ UNITED STATES TOWNSHIIP-RANGE LAT/LONG...
STATE.............. UTAH 155 019W 31 SW OF SE 39-27.84 N 114-1.98 W
COUNTY............. MILLARD

COORDINATES
LAT/LONG... 39-27.84 N 114-1.98 W
UTM ZONE... +11
NORTHING... 4372263.
755269.5

REFERENCE AND IDENTIFICATION
COMPILED BY........ GOODE, H.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............. DENNIS AND OTHERS; 1946
### Sample Description and Conditions

**Date/Collector:** 1964/11/03  
**Temperature (C):** 27.2  
**Discharge:** 136.7 L/min  

**Reference and Identification**  
Compiled By: Goode, H.  
Compiler Affiliation: Utah Geological and Mineral Survey  
Reference: Mood and Rush, 1965

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<th>Township-Range</th>
<th>Coordinates</th>
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<tbody>
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<td><strong>Geothermal Sample File</strong></td>
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<td><strong>Name of Sample Source:</strong> Cove Fort - Sulphurdale</td>
<td><strong>Country:</strong> United States</td>
<td><strong>Lat/Lon:</strong> 38-36.00 N 112-33.00 W</td>
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<tr>
<td><strong>State:</strong> Utah</td>
<td><strong>UTM Zone:</strong> 12</td>
<td><strong>Utah Zone:</strong> +12</td>
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<td><strong>County:</strong> Millard (6 Beaver)</td>
<td><strong>NORTHING:</strong> 4273342.0</td>
<td><strong>NORTHING:</strong> 20363.0</td>
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<tr>
<td><strong>Geologic Province:</strong></td>
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</table>
WATER ANALYSIS

ANALYSIS

AG.....  CO3.....  Li.....  S.....  3-6
H.....  F.....  Na.....  Si02..  124*
BAs.....  Fe3.....  Na+K.  144..  504..  7602.
Hf.....  Fe/mol.  Hb.....
Ca.....  158.
Cl.....  79.

REFERENCE AND IDENTIFICATION

COMPILED BY:...........  RENNEU, J.
COMPILE AFFILIATION: U. S. GEOLOGICAL SURVEY
REFERENCE:............  LEE, 1909

-------------

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE: COMO WARM SPRING

LOCATION

COUNTRY:...........  UNITED STATES  Township-Range:  04N 003W 31 NE OF SW
STATE:..............  UTAH
COUNTY:.............  MORGAN
GEOLIGIC PROVINCE:  37
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION:  1966/09/18
TEMPERATURE (C):  25
DISCHARGE:.........  E 3406A.
OTHER SAMPLE INFORMATION: HEAVY METAL ANALYSIS IN WHB-13

HEAT ANALYSIS

PH:....................  7.4
SPECIFIC CONDUCTANCE:  896.
TOTAL DISSOLVED SOLIDS:  622.
CHARGE IMBALANCE (% DIFF):  1.2

ANALYSIS IN mg/l

Al.....  Ca.....  Mg.....  Na.....  SiO2..  19.
H.....  Fe/mol.  2.
Hf.....  Fe/mol.  504.
Ca.....  109.
Cl.....  28.

REFERENCE AND IDENTIFICATION

COMPILED BY:...........  MURPHY, P.
COMPILE AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE:............  MUNDONFF, 1970

-------------

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE: COMO WARM SPRINGS

WELL/SPRING NUMBER:  (4-4) 313142

LOCATION

COUNTY:.............  UNITED STATES  Township-Range:  04N 003E 31 NW OF NE SW
STATE:..............  UTAH
COUNTY:.............  MORGAN
GEOLIGIC PROVINCE:  37
MAP REFERENCE:......  MORGAN 1124000
SAMPLE DESCRIPTION AND CONDITIONS

-------------

ISOTOPE 10/041

LAT/LONG.....  41-02.3 N 111-39.24 W
UTM ZONE.....  12
NUHTHING.....  4543060.
445026.
DATE/COLLECTION: 1971/08/21
TEMPERATURE (°C): 26.7
WATER ANALYSIS
PH: 7.9
TOTAL DISSOLVED SOLIDS: 640 T
ANALYSIS IN MG/L
AL... 146.0
R... 0.05
HA... 4.0
HE... 1.0
CA... 15.0
Mn... 15.0
Na... 15.0
Fe (TOT)... 0.05
Mg... 1.0
SiO2... 1.0
N... 0.0

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: SAXON: 1972

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: RACCHUS GRAVEL PIT
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: SALT LAKE
GEOLOGIC PROVINCE: 35
OTHER LOCALITY INFORMATION: POWDER PLANT 1 MILE UPSLOPE.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION: 1971/08/21
TEMPERATURE (°C): 26.7
DISCHARGE: 114. L/MIN
WATER ANALYSIS
PH: 7.5
SPECIFIC CONDUCTANCE: 2100 T
TOTAL DISSOLVED SOLIDS: 2300 T
ANALYSIS IN MG/L
AL... 146.0
R... 0.05
HA... 4.0
HE... 1.0
CA... 15.0
Mn... 15.0
Na... 15.0
Fe (TOT)... 0.05
Mg... 1.0
SiO2... 1.0
N... 0.0

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: SAXON: 1972

RECORD 00290
GEOTHERM FILE 101 0096393

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: RARRUS INC.
WELL/SPRING NUMBER: D-3 1208AA-1
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: SALT LAKE

COORDINATES
LAT/LONG... 40-34.93 W 111-31.8 N
UTM ZONE... +12
NORTHING... 4488825.
GEOLOGIC PROVINCE:

MAP REFERENCE:

OTHER LOCALITY INFORMATION:

SAMPLE DESCRIPTION AND CONDITIONS:

TEMPERATURE (°C)

WELL DEPTH (m)

DISCHARGE

REFERENCE AND IDENTIFICATION:

COMPILED BY:

COMPILER AFFILIATION:

REFERENCE:

436749.

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GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE:

WELL/SPRING NUMBER:

LOCATION:

COUNTRY:

STATE:

COUNTY:

GEOLOGIC PROVINCE:

MAP REFERENCE:

SAMPLE DESCRIPTION AND CONDITIONS:

DATE/COLLECTION:

WATER ANALYSIS:

SPECIFIC CONDUCTANCE:

ANALYSIS IN PPM:

AL:

H:

Na:

Ca:

Mg:

K:

REFERENCE AND IDENTIFICATION:

COMPILED BY:

COMPILER AFFILIATION:

REFERENCE:

---

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE:

WELL/SPRING NUMBER:

LOCATION:

COUNTRY:

STATE:

COUNTY:

GEOLOGIC PROVINCE:

MAP REFERENCE:

SAMPLE DESCRIPTION AND CONDITIONS:

DATE/COLLECTION:

WATER ANALYSIS:

SPECIFIC CONDUCTANCE:

ANALYSIS IN PPM:

SAI:

Mg:

K:

REFERENCE AND IDENTIFICATION:

COMPILED BY:

COMPILER AFFILIATION:

REFERENCE:

---

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE:

WELL/SPRING NUMBER:

LOCATION:

COUNTRY:

STATE:

COUNTY:

GEOLOGIC PROVINCE:

MAP REFERENCE:

SAMPLE DESCRIPTION AND CONDITIONS:

DATE/COLLECTION:

WATER ANALYSIS:

SPECIFIC CONDUCTANCE:

ANALYSIS IN PPM:

SAI:

Mg:

K:

REFERENCE AND IDENTIFICATION:

COMPILED BY:

COMPILER AFFILIATION:

REFERENCE:

---
REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MUNDHOF, 1970

GEOBYRNE SAMPLE FILE
NAME OF SAMPLE SOURCE: BECKS HOT SPRING

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: SALT LAKE
GEOLOGIC PROVINCE:
MAP REFERENCE:
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1977/07/00
TEMPERATURE (C):
WATER ANALYSIS
PH
ANALYSIS IN MG/L
AG
AL
Fe
Mg
Ca
Cl
K

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: PARRY AND CLEARY, 1978

GEOBYRNE SAMPLE FILE
NAME OF SAMPLE SOURCE: BECKS HOT SPRING

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: SALT LAKE
GEOLOGIC PROVINCE:
MAP REFERENCE:
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1961/11/03
WATER ANALYSIS
SPECIFIC CONDUCTANCE: 24500
TOTAL SOLIDS: 13500
CHANGE IN SOLIDS (% DIFF): 0.9
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<thead>
<tr>
<th><strong>ANALYSIS IN PPM</strong></th>
<th><strong>ISOTOPES (0/00)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AL</strong></td>
<td>120.5</td>
</tr>
<tr>
<td><strong>Fe</strong></td>
<td>2.3</td>
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<tr>
<td><strong>He</strong></td>
<td><strong>Fe2O</strong></td>
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<tr>
<td><strong>Ca</strong></td>
<td>726.1</td>
</tr>
<tr>
<td><strong>Cl</strong></td>
<td>726.1</td>
</tr>
</tbody>
</table>

**REFERENCE AND IDENTIFICATION**

**COMPILED BY** | MURPHY, P.
**COMPILER AFFILIATION** | UTAH GEOLOGICAL AND MINERAL SURVEY
**REFERENCE** | MUNDORFF, 1970

**GEOTHERM FILE 101 0017314**

**NAME OF SAMPLE SOURCE** | RECKS HOT SPRING
**WELL/SPRING NUMBER** | 8-1-1140CB-11

**LOCATION**

| **COUNTRY** | UNITED STATES |
| **STATE** | UTAH |
| **COUNTY** | SALT LAKE |
| **GEOLOGIC PROVINCE** | SALT LAKE CITY NORTH 1124000 |

**SAMPLE DESCRIPTION AND CONDITIONS**

**DATE/-collector** | 1942/05/19
**WATER ANALYSIS**

| **TOTAL DISSOLVED SOLIDS** | 1350.0 |

**ANALYSIS IN PPM**

<table>
<thead>
<tr>
<th><strong>AL</strong></th>
<th><strong>Ca</strong></th>
<th><strong>Fe</strong></th>
<th><strong>K</strong></th>
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<tbody>
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<td>120.5</td>
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<td><strong>Cr</strong></td>
<td><strong>HCO3</strong></td>
<td><strong>NO3</strong></td>
<td><strong>SiO2</strong></td>
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<td>1.7</td>
<td>228.6</td>
<td>876.6</td>
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**REFERENCE AND IDENTIFICATION**

**COMPILED BY** | MURPHY, P.
**COMPILER AFFILIATION** | UTAH GEOLOGICAL AND MINERAL SURVEY
**REFERENCE** | MUNDORFF, 1970

**GEOTHERM FILE 101 0017528**

**NAME OF SAMPLE SOURCE** | RECKS HOT SPRING
**WELL/SPRING NUMBER** | 8-1-1140CB-11

**LOCATION**

| **COUNTRY** | UNITED STATES |
| **STATE** | UTAH |
| **COUNTY** | SALT LAKE |
| **GEOLOGIC PROVINCE** | SALT LAKE CITY NORTH 1124000 |

**SAMPLE DESCRIPTION AND CONDITIONS**

**DATE/collector** | 1947/07/26
**WATER ANALYSIS**

| **TOTAL DISSOLVED SOLIDS** | 1350.0 |

**ANALYSIS IN PPM**

<table>
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<th><strong>AL</strong></th>
<th><strong>Ca</strong></th>
<th><strong>Fe</strong></th>
<th><strong>K</strong></th>
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<td>2.3</td>
<td>26.8</td>
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<tr>
<td><strong>Cr</strong></td>
<td><strong>HCO3</strong></td>
<td><strong>NO3</strong></td>
<td><strong>SiO2</strong></td>
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<tr>
<td>1.7</td>
<td>228.6</td>
<td>876.6</td>
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**REFERENCE AND IDENTIFICATION**

**COMPILED BY** | MURPHY, P.
**COMPILER AFFILIATION** | UTAH GEOLOGICAL AND MINERAL SURVEY
**REFERENCE** | MUNDORFF, 1970

**POTENTIALLY LITHOLOGY** | SPRINGS ISSUE FROM NEAR THE CONTACT BETWEEN QUATERNARY VALLEY FILL AND PALEOZOIC
LITHOLOGIES. THE CONTACT ZONE IS THE WARM SPRINGS FAULT.

**WATER ANALYSIS**

<table>
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<th>Parameter</th>
<th>Value</th>
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<tr>
<td>pH</td>
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<td>Specific Conductance</td>
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<td>Total Dissolved Solids</td>
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<td>Charge Imbalance (% Diff)</td>
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**ANALYSIS IN PPM**

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<th>Element</th>
<th>CO_3</th>
<th>Mg</th>
<th>Ca</th>
<th>Fe</th>
<th>K</th>
<th>Cl</th>
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<td>Na</td>
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</table>

**ISOTOPES** (0/00)

- Ag: 135
- Mg: 132
- Ca: 420
- Fe: 504
- K: 927

**REFERENCE AND IDENTIFICATION**

Compiled by: Murphy, P.
Compiler Affiliation: Utah Geological and Mineral Survey
Reference: Helz and Others, 1967
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
CITY: SALT LAKE
GEOLOGIC PROVINCE: SALT AIR 1124000
MAP REFERENCE: SALT AIR 1124000
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
SAMPLE DESCRIPTION AND CONDITIONS
DATE/SEASON: 1966/05/16
TEMPERATURE (C): 22
WELL DEPTH (M): 228
WATER ANALYSIS
PH: 8.3
SPECIFIC CONDUCTANCE: 886
TOTAL DISSOLVED SOLIDS: 514
ANALYSIS IN PPM
Ag... Co3... Mg... Na... Ca... Cl...
Al... Cr... Fe(III)... Fe(II)... Fe(III)
K... HCO3...
ISOPTES (D/0)

REFERENCE AND IDENTIFICATION
RECORDED:
NAME OF SAMPLE SOURCE: RONNEVILLE-ON-THE-HILL
WELL SPRING NUMBER: 2121A81
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
CITY: SALT LAKE
GEOLOGIC PROVINCE: SALT AIR 1124000
MAP REFERENCE: SALT AIR 1124000
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
SAMPLE DESCRIPTION AND CONDITIONS
DATE/SEASON: 1966/05/16
TEMPERATURE (C): 22
WELL DEPTH (M): 228
DISCHARGE: 27 L/MIN
WATER ANALYSIS
PH: 7.3
SPECIFIC CONDUCTANCE: 5840
TOTAL DISSOLVED SOLIDS: 3210
ANALYSIS IN MG/L
Ag... Co3... Mg... Na... Ca...
Al... Cr... Fe... Fe(II)... Fe(III)
K... HCO3...
ISOPTES (D/0)

REFERENCE AND IDENTIFICATION
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<td>SPECIFIC CONDUCTANCE</td>
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<td>TOTAL DISSOLVED SOLIDS</td>
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**ANALYSIS IN PPM**

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<td>304.0</td>
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<td>Fe(TOl)</td>
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<tr>
<td>Cl</td>
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**REFERENCE AND IDENTIFICATION**

- Compiled by: Murphy, P.
- Compiler Affiliation: Utah Geological and Mineral Survey
- Reference: Hely and Others, 1967

**GEOCHEMICAL SAMPLE FILE**

- Name of Sample Source: Bonneville-on-the-Hill
- Well/Spring Number: 101 002W 21 SE OF SW NE
- Location: United States
- Country: Utah
- County: Salt Lake
- Geologic Province: Saltair 1124000
- Map Reference: Saltair 1124000
- Sample Description and Conditions: 1966/05/16
- Date/Collector: 1966/05/16
- Temperature (C): 24.0
- Well Depth (m): 183.0
- Discharge: 105.0 L/MIN

**WATER ANALYSIS**

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<tr>
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<tr>
<td>Specific Conductance</td>
<td>1080.0</td>
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<tr>
<td>Total Dissolved Solids</td>
<td>635.0</td>
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</table>

**ANALYSIS IN PPM**

<table>
<thead>
<tr>
<th>Element</th>
<th>PPM</th>
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<tbody>
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<td>Mg</td>
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<td>Fe(TOl)</td>
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**REFERENCE AND IDENTIFICATION**

- Compiled by: Murphy, P.
- Compiler Affiliation: Utah Geological and Mineral Survey
- Reference: Hely and Others, 1967

**GEOCHEMICAL SAMPLE FILE**

- Name of Sample Source: Bonneville-on-the-Hill
- Well/Spring Number: 101 002W 18 NE OF NE SW
- Location: United States
- Country: Utah
- State: Utah
- County: Salt Lake
- Geologic Province: JS

**COORDINATES**

- LAT/LONG: 40-49-42 N 112-04-3 W
- UTM ZONE: 12
- NORTHING: 4517671
- ELEVATION: 499831
MAP REFERENCE: SALTAIR 1124000
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLING DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1965/06/08
TEMPERATURE (C): 26
WELL DEPTH (M): 194
DISCHARGE: 102, L/MIN

WATER ANALYSIS
P: 7.7
SPECIFIC CONDUCTANCE: 26.0
TOTAL DISSOLVED SOLIDS: 1320
ANALYSIS IN PPM
AG: CO3: N
AL: CH: NO: 18
H: F: NA: SIO2: 42
HE: FE(II): NO: 23
CA: MCO3: 200
CL: NO3: 0.1

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HELY AND OTHERS, 1967

GEOLOGIC SAMPLE FILE
NAME OF SAMPLE SOURCE: BONNEVILLE-ON-THE-HILL
WELL/SPRING NUMBER: S-1 2121998-2
LOCATION: TOWNSHIP-RANGE
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: SALT LAKE
GEOLOGIC PROVINCE: MAP REFERENCE: SALTAIR 1124000
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLING DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1965/04/13
TEMPERATURE (C): 23
WELL DEPTH (M): 176
DISCHARGE: 98, L/MIN

WATER ANALYSIS
P: 6.0
SPECIFIC CONDUCTANCE: 1810
TOTAL DISSOLVED SOLIDS: 984
ANALYSIS IN PPM
AG: CO3: N
AL: CH: NO: 17
H: F: NA: SIO2: 39
HE: FE(II): NO: 50
CA: MCO3: 234
CL: NO3: 1.1

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HELY AND OTHERS, 1967
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<th>Mg</th>
<th>Na</th>
<th>SiO₂</th>
<th>Fe(tot)</th>
<th>Na</th>
<th>Nb</th>
<th>SiO₂</th>
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<td>CL</td>
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</tbody>
</table>

**REFERENCE AND IDENTIFICATION**

Compiled by: Murphy, P.
Compiler Affiliation: Utah Geological and Mineral Survey
Reference: Hely and Others, 1967

---

**Geothermal Sample File**

**NAME OF SAMPLE SOURCE:** Bonneville-On-The-Hill

**WELL/Spring Number:** (N-1 = 2127CCA)

**LOCATION**

- **Country:** United States
- **State:** Utah
- **County:** Salt Lake
- **Geologic Province:** 35
- **Map Reference:** Saltair 1124000

**SAMPLE DESCRIPTION AND CONDITIONS**

- **Date/Collector:** 1966/08/31
- **Temperature (℃):** 25
- **Well depth (m):** 180
- **Discharge:** 110 L/Min

**WATER ANALYSIS**

- **pH:** 7.2
- **Specific Conductance:** 80300
- **Total Dissolved Solids:** 44000

**Analysis in ppm**

<table>
<thead>
<tr>
<th>Element</th>
<th>CO₂</th>
<th>CH₄</th>
<th>Mg</th>
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**REFERENCE AND IDENTIFICATION**

Compiled by: Murphy, P.
Compiler Affiliation: Utah Geological and Mineral Survey
Reference: Hely and Others, 1967

---

**Geothermal Sample File**

**NAME OF SAMPLE SOURCE:** Bonneville-On-The-Hill

**WELL/Spring Number:** (N-1 = 2128008)

**LOCATION**

- **Country:** United States
- **State:** Utah
- **County:** Salt Lake
- **Geologic Province:** 35
- **Map Reference:** Saltair 1124000

**Sample Description and Conditions**

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**REFERENCE**

- HELY AND OTHERS, 1967
- UTAH GEOLOGICAL AND MINERAL SURVEY

**COORDINATES**

- LAT/LONG: 40-27.48 N 111-55.56 W
- UTM ZONE: 12
- NORTING: 421455
- EARTING: 447879

---

**GEOCHEMICAL SAMPLE FILE**

**NAME OF SAMPLE SOURCE:** CAMP WILLIAMS R.R.

**LOCATION**

- UNITED STATES
- UTAH
- SALT LAKE
- 35

**SAMPLE DESCRIPTION AND CONDITIONS**

- DATE/COLLECTOR: 1966/07/30
- TEMPERATURE (C): 14.5
- DISCHARGE: 7.6

**GASEOUS ANALYSIS**

- P4: 6.49
- SPECIFIC CONDUCTANCE: 265

**ANALYSIS IN MG/L**

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**REFERENCE**

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- UTAH GEOLOGICAL AND MINERAL SURVEY

**COORDINATES**

- LAT/LONG: 40-27.48 N 111-55.56 W
- UTM ZONE: 12
- NORTING: 421455
- EARTING: 447879

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**GEOCHEMICAL SAMPLE FILE**

**NAME OF SAMPLE SOURCE:** CRYSTAL HOT SPRINGS

**LOCATION**

- UNITED STATES
- UTAH
- 111

**GEOCHEMICAL SAMPLE FILE**

**NAME OF SAMPLE SOURCE:** CRYSTAL HOT SPRINGS

**LOCATION**

- UNITED STATES
- UTAH
- 111

**COORDINATES**

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- UTM ZONE: 12
- NORTING: 421455
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GEOLOGIC PROVINCE... NORTHERN...
MAP REFERENCE....... JORDAN NARROWS 1124000
OTHER LOCALITY INFORMATION: 20 MILES SOUTH OF SALT LAKE CITY.
SAMPLING DESCRIPTION AND CONDITIONS
DATE/collector...... 1964/11/25
TEMPERATURE (C)...... 25.5
DISCHARGE.............. 1325. L/MIN
WATER ANALYSIS
PH.................. 7.6
SPECIFIC CONDUCTANCE.... 810.0
TOTAL DISSOLVED SOLIDS... 486.0
CHARGE IMBALANCE (PH DIFF)... 2.7
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AG...... CO3...... Na......
AL...... CR...... Mg......
Fe...... N... Na......
Ca...... F... Fe(III)... NO3......
Cl...... NC03......
ISOPOLES (O/UR)

REFERENCE AND IDENTIFICATION
COMPILED BY........... HURPHY, P.
COMPILE AFFILIATION.... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............... UTAH GEOLOGICAL AND MINERAL SURVEY

GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE... DRAPER IRRIGATION
WELL/SPRING NUMBER..... (U-3-11298CB-1)
LOCATION
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STATE................ UTAH
COUNTY.............. SALT LAKE
GEOLOGIC PROVINCE.. 35
MAP REFERENCE....... DRAPER 1124000
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
SAMPLING DESCRIPTION AND CONDITIONS
DATE/collector...... 1964/11/25
TEMPERATURE (C)...... 25.5
DISCHARGE.............. 1325. L/MIN
WATER ANALYSIS
PH.................. 7.6
SPECIFIC CONDUCTANCE.... 810.0
TOTAL DISSOLVED SOLIDS... 486.0
CHARGE IMBALANCE (PH DIFF)... 2.7
ANALYSIS IN PPM
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AL...... CR...... Mg......
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ISOPOLES (O/UR)

REFERENCE AND IDENTIFICATION
COMPILED BY........... HURPHY, P.
COMPILE AFFILIATION.... UTAH GEOLOGICAL AND MINERAL SURVEY

ISOPOLES (O/UR)
REFERENCE................. Iorns and Others, 1966a

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE........ DHAPEM IRRIGATION CO.
WELL/SPRING NUMBER.............. 10-3-1 120CD-1

LOCATION

COUNTRY...................... UNITED STATES
STATE......................... UTAH
COUNTY....................... SALT LAKE
GEOLOGIC PROVINCE............. MAP REFERENCE

TOWNSHIP=SECTION LOCATION APPROXIMATE

DATE/COLLECTOR............... 1966/06/03
TEMPERATURE (C).............. 21
WELL DEPTH (M)............... 155

WATER ANALYSIS

PH.................................. 8.1
SPECIFIC CONDUCTANCE......... 1470
TOTAL DISSOLVED SOLIDS....... 885

ANALYSIS IN PPM

AG....... CO3.......
H....... CR....... Mg....... 22
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...... F........ Na+........ SIO2... 18
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Cl........ 254

ISOTOPES (0/9/67)

REFERENCE AND IDENTIFICATION

COMPILED BY................... HURPHY, P.
COMPILER AFFILIATION......... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE..................... HELY AND OTHERS, 1967

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE........ E. JUNDAN CANAL CO.

LOCATION

COUNTRY...................... UNITED STATES
STATE......................... UTAH
COUNTY....................... SALT LAKE
GEOLOGIC PROVINCE............. MAP REFERENCE

TOWNSHIP=SECTION LOCATION APPROXIMATE

DATE/COLLECTOR............... 1959/07/30
TEMPERATURE (C).............. 22.7

WATER ANALYSIS

PH.................................. 7.5
SPECIFIC CONDUCTANCE......... 696
TOTAL DISSOLVED SOLIDS....... 393

ANALYSIS IN NACL

AG....... CH....... Mn....... 25
H....... F....... Na......
HA....... Fe++..... NaK...... 40
...... Fe(TOT)... Na+......
Ca....... 64... HCO3..... 249

ISOTOPES (0/7/67)

REFERENCE AND IDENTIFICATION

COMPILED BY................... HURPHY, P.
COMPILER AFFILIATION......... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE..................... HELY AND OTHERS, 1967
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**Water Analysis**

- **pH**: 7.4
- **Specific Conductance**: 1980
- **Total Dissolved Solids**: 1080

**Analysis in mg/L**

- **Al**: 11
- **Ca**: 59
- **Cl**: 51
- **Fe**: 320
- **Na**: 320
- **HCO₃**: 220
- **K**: 11
- **Mg**: 320
- **SO₄**: 63
- **NO₃**: 0.7

**Isotopes (δ/‰)**

- **δ18O**: 404-44.70
- **δ13C**: +12
- **δD**: 415060
- **N**: 40-50.52
- **δ18O**: 111-58.02
- **δD**: 4521456
- **N**: 112

**Component Analysis**

- **Cr**: 320
- **Fe(total)**: 220
- **K**: 220
- **Mg**: 220
- **Na**: 220
- **SO₄**: 220
- **NO₃**: 220

**Compiler and Identification**

- **Compiler**: Goode, H.
- **Affiliation**: Utah Geological and Mineral Survey
- **Reference**: Marine 1960
NAME OF SAMPLE SOURCE... GILLMORE, C. F.
WELL/SPRING NUMBER..... (1-5) 2125CDA-1

LOCATION
COUNTRY.............. UNITED STATES
STATE................. UTAH
COUNTY.............. SALT LAKE
GEOLOGIC PROVINCE... MAP REFERENCE SALTAIR 1124000
OTHER LOCALITY INFORMATION LOCATION APPROXIMATE DATE/COLLECTOR....... 1964/08/31 TEMPERATURE (C)..... 25.0 DISCHARGE........... 3.0 L/MIN
SALT/LONG........... 40-47.5 N 112-00.5 W UTM ZONE.... +12 NORTHING..... 4519218.

SALT/LONG........... 40-47.5 N 112-00.5 W UTM ZONE.... +12 NORTHING..... 4519218.

REFERENCE AND IDENTIFICATION
COMPILED BY........... GOODE, H.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY REFERENCE.............. I ORNS AND OTHERS... 1966B

RECORD 00322

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... GILLMORE, C. F.
WELL/SPRING NUMBER..... (1-5) 2125CDA-1

LOCATION
COUNTRY.............. UNITED STATES
STATE................. UTAH
COUNTY.............. SALT LAKE
GEOLOGIC PROVINCE... MAP REFERENCE SALTAIR 1124000
OTHER LOCALITY INFORMATION LOCATION APPROXIMATE DATE/COLLECTOR....... 1965/02/17 TEMPERATURE (C)..... 25.0 DISCHARGE........... 4.5 L/MIN
SALT/LONG........... 40-47.5 N 112-00.5 W UTM ZONE.... +12 NORTHING..... 4519218.

REFERENCE AND IDENTIFICATION
COMPILED BY........... GOODE, H.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY REFERENCE.............. I ORNS AND OTHERS... 1966B

RECORD 00323

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE: GILLMUIRE, C. F. & E. L.

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: SALT LAKE
GEOLOGIC PROVINCE: 35

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1932/09/27
TEMPERATURE (C): 28.5
WELL DEPTH (M): 305
DISCHARGE: 456

OTHER SAMPLE INFORMATION: SAME AS WELL SUDU 3 IN WSP=1029, METHANE GAS

WATER ANALYSIS
TOTAL DISSOLVED SOLIDS: 1155

ANALYSIS IN MG/L
AL: 146
CA: 62
CI: 83
CR: 1.3
Fe: 0.04
HCO3: 214
Mg: 14
Na: 64
SiO2: 16
SO4: 16

ISOTOPES (19/01)

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILE AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MARINE 1960

COORDINATES
LAT/LONG: 40-50.52 N 111-58.02 W
UTM ZONE: +12
NORTHING: 4521436.418477

PAGE 0160
GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... GRANGER-HUNTER IMPROVEMENT DIST.
LOCATION
COUNTRY........... UNITED STATES
STATE............. UTAH
COUNTY............ SALT LAKE
GEOLOGIC PROVINCE
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION... 1965/05/13
TEMPERATURE (C)... 23.3
WELL DEPTH (M)... 275
DISCHARGE......... 5299 L/MIN
WATER ANALYSIS
PH................ 7.8
SPECIFIC CONDUCTANCE... 628
TOTAL DISSOLVED SOLIDS... 193
ANALYSIS IN PPM
AL.... 0.08
H.... 0.48
N.... 0.5
CA.. 15
MG.. 13
SI02. 25
F... 0.1
FE(III).... 175
NO3... 0.2
ISOPIPS (O/18)

REFERENCE AND IDENTIFICATION
COMPILED BY........ MURPHY, P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE........... MARINE, 1980

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... GRANGER-HUNTER IMPROVEMENT DIST.
WELL/Spring NUMBER... (C-1 1120YDO-1)
LOCATION
COUNTRY........... UNITED STATES
STATE............. UTAH
COUNTY............ SALT LAKE
GEOLOGIC PROVINCE
MAP REFERENCE..... SALT LAKE CITY SOUTH 11240000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION... 1965/04/08
TEMPERATURE (C)... 23.3
WELL DEPTH (M)... 275
DISCHARGE......... 5299 L/MIN
WATER ANALYSIS
PH................ 7.8
SPECIFIC CONDUCTANCE... 628
TOTAL DISSOLVED SOLIDS... 193
ANALYSIS IN PPM
AG.... 0.08
AL.... CR....
H.... 0.5
CA.. 15
MG.. 13
SI02. 25
F... 0.1
FE(III).... 175
NO3... 0.2
ISOPIPS (O/18)

REFERENCE AND IDENTIFICATION
COMPILED BY........ MURPHY, P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE........... MARINE, 1980
**Geotherm Sample File**

**Location**
- **Country**: United States
- **State**: Utah
- **County**: Salt Lake
- **Geologic Province**: 

**Sample Description and Conditions**
- **Date/Collection**: 1958/09/10
- **Temperature (°C)**: 20.0
- **Discharge**: 227.0 L/min

**Water Analysis**
- **pH**: 7.8
- **Specific Conductance**: 2240 µS/cm
- **Total Dissolved Solids**: 1410 mg/L

**Analysis in mg/L**
- **Ca**: 123
- **Mg**: 71
- **Na**: 71
- **K**: 276
- **Fe**: 409
- **Cl**: 312

**Reference and Identification**
- **Compiled By**: Goode, M.
- **Compiler Affiliation**: Utah Geological and Mineral Survey
- **Reference**: Marine, 1960

---

**Geotherm Sample File**

**Location**
- **Country**: United States
- **State**: Utah
- **County**: Salt Lake
- **Geologic Province**: 

**Sample Description and Conditions**
- **Date/Collection**: 1957/11/10
- **Temperature (°C)**: 20.6
- **Well Depth (m)**: 36 m
- **Discharge**: 0.1 L/min

**Water Analysis**
- **pH**: 7.2
- **Specific Conductance**: 944 µS/cm
- **Total Dissolved Solids**: 504 mg/L

**Analysis in mg/L**
- **Cr**: 8

**Reference and Identification**
- **Compiled By**: Goode, M.
- **Compiler Affiliation**: Utah Geological and Mineral Survey
- **Reference**: Marine, 1960
NAME OF SAMPLE SOURCE: HARRISON, A. W.

GEOGRAPHICAL LOCATION:
- COUNTRY: UNITED STATES
- TOWNSHIP: 03S
- RANGE: 001W
- SW OF SW SW

LAT/LONG: 40-34'-1 N 111-54'-5 W

UTM ZONE: 1212000
NORTHING: 4490873

OTHER LOCALITY INFORMATION:
- LOCATION APPROXIMATE: MIDVALE 114000

SAMPLE DESCRIPTION AND CONDITIONS:
- DATE/COLLECTION: 1964/07/08
- TEMPERATURE (C): 20.5
- WELL DEPTH (M): 36
- DISCHARGE: 33 L/MIN

MAINF ANALYSIS:
- PH: 7.7
- SPECIFIC CONDUCTANCE: 20.5
- TOTAL DISSOLVED SOLIDS: 578

ANALYSIS IN PPM:
- AG: 4
- CO3: 0.5
- CR: 0.5
- K: 0.5
- Mg: 0.5
- Na: 0.5
- Fe3+: 0.5
- Fe(II): 0.5
- N: 0.5
- O: 0.5
- SiO2: 0.5
- C: 0.5

ISOISOPES (10/99):
- ...
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTED: 1964/07/07
TEMPERATURE (°C): 26.6
WELL DEPTH (M): 165

WATER ANALYSIS
PH: 7.9
SPECIFIC CONDUCTANCE: 836 μS
TOTAL DISSOLVED SOLIDS: 478 mg/L

ANALYSIS IN PPM
Ag: CO3: Na+ K+ Mg+ Fe+3 Ba+ Hg+2 Ca+ HCO3: Cl:
169: 169: 504: 12: 139: 260: 0.1

ISOTOPES (δ/0)

REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, M.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: IONS AND OTHERS: 1966A

GEOThERM-SAMPLE-FILE
NAME OF SAMPLE SOURCE: IRVINE, R. L.
WELL/SPrING NUMBER: 7-1-2/20AC-2
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: SALT LAKE
GEOLOGIC PROVINCE: SALT AIR 1124000
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
DATE/COLLECTED: 1964/02/28
TEMPERATURE (°C): 26.1
WELL DEPTH (M): 165

WATER ANALYSIS
PH: 7.9
SPECIFIC CONDUCTANCE: 836 μS
TOTAL DISSOLVED SOLIDS: 478 mg/L

ANALYSIS IN PPM
Ag: CO3: Na+ K+ Mg+ Fe+3 Ba+ Hg+2 Ca+ HCO3: Cl:
166: 169: 504: 12: 139: 260

ISOTOPES (δ/0)

REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, M.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: IONS AND OTHERS: 1966A

GEOThERM-SAMPLE-FILE
NAME OF SAMPLE SOURCE: IRVINE, R. L.
WELL/Spring NUMBER: 7-1-2/20AC-1
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: SALT LAKE
GEOLOGIC PROVINCE:
MAP REFERENCE: SALTAIR 11240

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS
DATE/Collector: 1965/09/10
TEMPERATURE (C): 20.0
SALT DEPTH (M): 14.0

DISCHARGE: 1.5 L/MIN

WATER ANALYSIS
SPECIFIC CONDUCTANCE: 855.

REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: IOMNS AND OTHERS, 1966A

RECORD 00333

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE: JEREMY E. J.
WELL/SPRING NUMBER: [8-1-21364AA-1]

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: SALT LAKE
GEOLOGIC PROVINCE:
MAP REFERENCE: SALTAIR 11240

SAMPLE DESCRIPTION AND CONDITIONS
DATE/Collector: 1964/02/26
TEMPERATURE (C): 27.2
SALT DEPTH (M): 141.

DISCHARGE: 16 L/MIN

WATER ANALYSIS
pH: 7.3
SPECIFIC CONDUCTANCE: 6180.
TOTAL DISSOLVED SOLIDS: 3360.

ANALYSIS IN PPM
AG: 0.3
CA: 513
CO3: 60
CL: 2240
FE: 30
K: 107
MAG: 168
Mg: 5
NO3: 1.2
S: 1070
SO4: 53

ISOTOPES (O/18D)

REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: IOMNS AND OTHERS, 1966A

RECORD 00334

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE: JEREMY E. J.
WELL/SPRING NUMBER: [8-1-21364AA-1]
STATE: UTAH
COUNTY: SALT LAKE
GEOLOGIC PROVINCE: SALT LAKE

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION: 1931/11/13
TEMPERATURE (°C): 22.5
WELL DEPTH (M): 197
DISCHARGE: 64

WATER ANALYSIS
ANALYSIS IN MG/L

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| OTHER ANALYTICAL DATA... METHANE GAS
REFERENCE AND IDENTIFICATION
COMPILED BY: HURARY P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MARINE 1960

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| SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION: 1958/08/19
TEMPERATURE (°C): 26
WELL DEPTH (M): 141

WATER ANALYSIS

| pH         | 7.2                     |
| SPECIFIC CONDUCTANCE | 6290 µMhos/cm |
| TOTAL DISSOLVED SOLIDS | 3530 µMhos/cm |

ANALYSIS IN MG/L

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REFERENCE AND IDENTIFICATION
COMPILED BY: HURARY P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MARINE 1960

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<td>Ca-Mg</td>
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| OTHER ANALYTICAL DATA... METHANE GAS
REFERENCE AND IDENTIFICATION
COMPILED BY: HURARY P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MARINE 1960

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COUNTY: SALT LAKE
GEOLOGIC PROVINCE: 
MAP REFERENCE: SALT LAKE CITY NORTH 1124000
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1965/02/18
TEMPERATURE (°C): 24.4
WELL DEPTH (M): 137
DISCHARGE: 76 L/MIN

WATER ANALYSIS
PH: 7.4
SPECIFIC CONDUCTANCE: 1590 μS
TOTAL DISSOLVED SOLIDS: 890 ppm

ANALYSIS IN PPM
AG: 0
AL: 0.003
CR: 0
CaO: 0.3
FeO: 0.1
Fe(TOT): 0.1
Mg: 0.1
Mn: 0.3
Na: 0.3
Na+K: 0.3
NO3: 0.3
NO2: 0.3
HCO3: 382
Cl: 382
CO3: 0
N

OTHER ANALYTICAL DATA: METHANE GAS
REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: JOHNS AND OTHERS, 1966B

RECORD 00339

GEOTHERM FILE ID: 0017479

LOCATION
NAME OF SAMPLE SOURCE: JEHRY, E. J.
WELL/SPRING NUMBER: 18-1 1190A-5
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: SALT LAKE
GEOLOGIC PROVINCE: 
MAP REFERENCE: SALT LAKE CITY NORTH 1124000
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1965/09/08
TEMPERATURE (°C): 28
WELL DEPTH (M): 197
DISCHARGE: 6.1 L/MIN

WATER ANALYSIS
SPECIFIC CONDUCTANCE: 1460 μS
REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: JOHNS AND OTHERS, 1966B

RECORD 00340

GEOTHERM FILE ID: 0017062

LOCATION
NAME OF SAMPLE SOURCE: KENNECOTT COPPER
WELL/SPRING NUMBER: (C-1 119CA-1)

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<td>TOTAL DISSOLVED SOLIDS 790</td>
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<th>Mg....</th>
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**ISOTOPES (2/001)**

**REFERENCE AND IDENTIFICATION**

- COMPILER: GOODE, H.
- COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
- REFERENCE: IOWNS AND OTHERS, 1966A

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**ISOTOPES (2/001)**

**REFERENCE AND IDENTIFICATION**

- COMPILER: MURPHY, P.
- COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
- REFERENCE: MURPHY AND OTHERS, 1968
| Name of Sample Source | Kenneth Copper
|-----------------------|----------------------
| Location              | Magna, Utah
| Collection Date       | 1967/06/17
| Sample Description    | Sulfide
| Temperature           | 22.7°C
| Specific Conductance  | 1590 ppm
| pH                    | 5.8
| Analysis              | Copper
| Other Metals          | Iron, Zinc, Lead
| Notes                 | None

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<th>Fe (%)</th>
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<td>10.0</td>
<td>2.0</td>
<td>0.1</td>
</tr>
</tbody>
</table>

**Note:** The data provided is a summary of the chemical analysis of the sample collected from the Kenneth Copper site in Magna, Utah, on June 17, 1967. The analysis includes measurements of carbonates, chlorides, sulfates, and specific conductance. The sample was collected at 22.7°C and had a specific conductance of 1590 ppm. Other metals such as iron and zinc were also detected in the sample, but no notes were recorded.
<table>
<thead>
<tr>
<th>Commodity</th>
<th>Value</th>
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<tbody>
<tr>
<td>Al</td>
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</tr>
<tr>
<td>B</td>
<td>1.7</td>
</tr>
<tr>
<td>Ca</td>
<td>280</td>
</tr>
<tr>
<td>Cl</td>
<td>3700</td>
</tr>
<tr>
<td>F</td>
<td>0.84</td>
</tr>
<tr>
<td>Fe</td>
<td>152</td>
</tr>
<tr>
<td>Mg</td>
<td>2150</td>
</tr>
<tr>
<td>Na</td>
<td>7920</td>
</tr>
<tr>
<td>NO</td>
<td>304</td>
</tr>
<tr>
<td>NO3</td>
<td>2.2</td>
</tr>
<tr>
<td>SO2</td>
<td>19.98</td>
</tr>
<tr>
<td>SO4</td>
<td>10.46</td>
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**Geothermal Sample File**

**Name of Sample Source**: Kennecott Copper

**Well/Spring Number**: (C-1) 17A0C-1

**Location**: United States, UT, SALT LAKE

**Date/Collector**: 1966/04/26

**Temperature (C)**: 21

**Discharge**: 1325 L/MIN

**pH**: 7.7

**Total Dissolved Solids**: 8900

**Analysis in PPM**

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<th>Value</th>
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<tr>
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<td>170</td>
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<tr>
<td>Al</td>
<td>1340</td>
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<tr>
<td>B</td>
<td>504</td>
</tr>
<tr>
<td>Ca</td>
<td>196</td>
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<tr>
<td>CO3</td>
<td>N</td>
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<td>Cr</td>
<td>152</td>
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<tr>
<td>F</td>
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<tr>
<td>Fe</td>
<td>152</td>
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<td>K</td>
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<td>304</td>
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**Isotopes**

**Temperature (C)**: 26

**Reference and Identification**

**Compiled by**: Murphy, P.

**Compiler Affiliation**: UTAH GEOLOGICAL AND MINERAL SURVEY

**Reference**: HELY AND OTHERS, 1967
WELL DEPTH (M) 175
DISCHARGE 11356. L/MIN
WATER ANALYSIS
PH 7.5
SPECIFIC CONDUCTANCE 13900.
TOTAL DISSOLVED SOLIDS 8220.
ANALYSIS IN PPM
AG  N
AL  CR  Mg  Ba  SiO2  Fe
R  F  Na  K  Al  Fe
BE  Ca  Mg  K  Pb
Cl  HCO3

REFERENCE AND IDENTIFICATION
COMPILED BY MURPHY, P.
COMPILER AFFILIATION UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE HELY AND OTHERS, 1968

ISOPTES (9/80)

RECORD 00346

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE KENNECOTT COPPER
WELL SPRING NUMBER C-1-3 1586A-2
LOCATION TOWNSHIP RANGE 01S 003W 15 NE OF SW NW
COUNTRY UNITED STATES
STATE UTAH
COUNTY SALT LAKE
GEOLOGIC PROVINCE 35
MAP REFERENCE FARNsworth PEAK 1124000
OTHER LOCALITY INFORMATION LOCATION APPROXIMATE
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLECTOR 1964/09/15
TEMPERATURE (C) 7.7
WELL DEPTH (M) 270
DISCHARGE 13736. L/MIN
WATER ANALYSIS
PH 7.5
SPECIFIC CONDUCTANCE 20600.
TOTAL DISSOLVED SOLIDS 13800.
ANALYSIS IN PPM
Ag  N
AL  CR  Mg  Na  SiO2  Fe
Ba  Na  Ca  Mg  Fe
R  Fe  Na  K  SiO2
BE  Ca  Mg  K  Fe
Cl  HCO3

REFERENCE AND IDENTIFICATION
COMPILED BY MURPHY, P.
COMPILER AFFILIATION UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE HELY AND OTHERS, 1968

RECORD 00347

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE KLEIN S. F.

ISOPTES (9/80)
WELL/SPRING NUMBER: (C- 1) 24AAA-2

LOCATION:
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: SALT LAKE
GEOLOGIC PROVINCE:
MAP REFERENCE: MAGNA 1124000
SAMPLE DESCRIPTION AND CONDITIONS:
DATE/COLLECTOR: 1965/10/27
TEMPERATURE (C): 23
WELL DEPTH (M): 137
DISCHARGE: 170 L/MIN
WATER ANALYSIS:
PH: 7.8
SPECIFIC CONDUCTANCE: 5970
TOTAL DISSOLVED SOLIDS: 3380
ANALYSIS IN PPm:
Ao: 9
AL: 99
OH: 92
HE: 52
Ca: 112
Mg: 112
Na: 504
K: 233
Cl: 1820

REFERENCE AND IDENTIFICATION:
COMPILED BY: MURPHY, F.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HELY AND OTHERS, 1967

RECORD 00348

GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE: LAKEFRONT GUN CLUB
LOCATION:
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: SALT LAKE
GEOLOGIC PROVINCE:
MAP REFERENCE: MAGNA 1124000
SAMPLE DESCRIPTION AND CONDITIONS:
DATE/COLLECTOR: 1935/05/19
TEMPERATURE (C): 22
DISCHARGE: 134
WATER ANALYSIS:
ANALYSIS IN MG/L:
R: 188
Na: 504
Ca: 226
Cl: 194

REFERENCE AND IDENTIFICATION:
COMPILED BY: MURPHY, F.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MARINE, 1960

RECORD 00349

GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE: LAKEFRONT GUN CLUB

TEMPERATURE (C) .......... 22.1
WELL DEPTH (M) .......... 51.1
DISCHARGE .............. 206, L/MIN

RAINFALL ANALYSIS

PH ............ 7.6
SPECIFIC CONDUCTANCE .... 400, µS/cm
TOTAL DISSOLVED SOLIDS ... 246, mg/L

ANALYSIS IN PPM

Ag ....... 0.01
Al ....... 0.01
Ba ....... 0.01
Ca ....... 5.3
Cl ....... 5.8
Cr ....... 0.01
Fe ....... 0.01
K ....... 11.0
Mg ....... 12.0
Na ....... 16.0
Ni ....... 0.01
P ....... 0.01
Si ....... 17.0
Sr ....... 0.01
SO₄ ....... 33.0

REFERENCE AND IDENTIFICATION

COMPILED BY .......... GOOD, M.
COMPILER AFFILIATION ... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE ............. MARINE, 1960

---

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE .... MORTON SALT
LOCATION

COUNTRY .......... UNITED STATES
STATE .......... UTAH
COUNTY .......... SALT LAKE

GEOTHERMAL PROVINCE

DETAILED DESCRIPTION AND CONDITIONS

DATE/COLLECTOR ...... 1960/08/15
TEMPERATURE (C) ........ 22.1
WELL DEPTH (M) .......... 51.1
DISCHARGE ........... 206, L/MIN

ANALYSIS IN mg/L

Ag ....... 0.01
Al ....... 0.01
Ba ....... 0.01
Ca ....... 5.3
Cl ....... 5.8
Cr ....... 0.01
Fe ....... 0.01
K ....... 11.0
Mg ....... 12.0
Na ....... 16.0
Ni ....... 0.01
P ....... 0.01
Si ....... 17.0
Sr ....... 0.01
SO₄ ....... 33.0

REFERENCE AND IDENTIFICATION

COMPILED BY .......... GOOD, M.
COMPILER AFFILIATION ... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE ............. MARINE, 1960

---

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE .... MORTON SALT
LOCATION

COUNTRY .......... UNITED STATES
STATE .......... UTAH
COUNTY .......... SALT LAKE

GEOTHERMAL PROVINCE

DETAILED DESCRIPTION AND CONDITIONS

DATE/COLLECTOR ...... 1960/08/15
TEMPERATURE (C) ........ 22.1
WELL DEPTH (M) .......... 51.1
DISCHARGE ........... 206, L/MIN

ANALYSIS IN mg/L

Ag ....... 0.01
Al ....... 0.01
Ba ....... 0.01
Ca ....... 5.3
Cl ....... 5.8
Cr ....... 0.01
Fe ....... 0.01
K ....... 11.0
Mg ....... 12.0
Na ....... 16.0
Ni ....... 0.01
P ....... 0.01
Si ....... 17.0
Sr ....... 0.01
SO₄ ....... 33.0

REFERENCE AND IDENTIFICATION

COMPILED BY .......... GOOD, M.
COMPILER AFFILIATION ... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE ............. MARINE, 1960
COUNTY................ SALT LAKE
GEOLoGIC PROVINCE...

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR......... 1956/07/06
TEMPERATURE (°C)....... 21.5
WELL DEPTH (M)......... 251.8
DISCHARGE................. 560.0 L/MIN

REFERENCE AND IDENTIFICATION
COMPILeD BY.............. GOODE, H.
COMPILED AFFILIATION.... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE................ MARINE; 1968

RECORD 00354

GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE... MONTON SALT
WELL/SPRING NUMBER..... (8-1-3) 348C8-1

LOCATION................. TOWNSHIP-RANGE
COUNTRY................ UNITED STATES
STATE............... UTAH
COUNTY............... SALT LAKE

MAP REFERENCE............ ANTELOPE ISLAND SOUTH 112 40000
OTHER LOCALITY INFORMATION LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR.......... 1956/07/06
TEMPERATURE (°C)....... 21.5
WELL DEPTH (M)......... 251.8
DISCHARGE............... 560.0 L/MIN

WATER ANALYSIS
P+........................ 7.3
SPECIFIC CONDUCTANCE.... 24300
TOTAL DISSOLVED SOLIDS... 15800

ANALYSIS IN PPM
AC+....................... 2
AL+....................... 1070
CA+....................... 9730
CL+....................... 688
CR+....................... NA
F+....................... 3950
HCO3+................... 52
Mg+....................... 688
Na+....................... 5102
NO3+.................... 39
NO2+..................... 39
SI+....................... 504

REFERENCE AND IDENTIFICATION
COMPILeD BY.............. MURPHY, P.
COMPILED AFFILIATION.... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE................ HELY AND OTHERS; 1968

RECORD 00355

GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE... MONTON SALT
WELL/SPRING NUMBER..... (8-1-3) 348C8-1

LOCATION................. TOWNSHIP-RANGE
COUNTRY................ UNITED STATES
STATE............... UTAH
COUNTY............... SALT LAKE

MAP REFERENCE............ ANTELOPE ISLAND SOUTH 112 40000
OTHER LOCALITY INFORMATION LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR.......... 1956/07/06
TEMPERATURE (°C)....... 21.5
WELL DEPTH (M)......... 251.8
DISCHARGE............... 560.0 L/MIN

WATER ANALYSIS
P+........................ 7.3
SPECIFIC CONDUCTANCE.... 24300
TOTAL DISSOLVED SOLIDS... 15800

ANALYSIS IN PPM
AC+....................... 2
AL+....................... 1070
CA+....................... 9730
CL+....................... 688
CR+....................... NA
F+....................... 3950
HCO3+................... 52
Mg+....................... 688
Na+....................... 5102
NO3+.................... 39
NO2+..................... 39
SI+....................... 504

REFERENCE AND IDENTIFICATION
COMPILeD BY.............. MURPHY, P.
COMPILED AFFILIATION.... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE................ HELY AND OTHERS; 1968
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<td><strong>DISCHARGE</strong></td>
<td>1325. L/Min</td>
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**REFERENCE AND IDENTIFICATION**

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**GEOTHERMAL SAMPLE FILE**

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<td>OTHER SAMPLE INFORMATION</td>
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**WATER ANALYSIS**

| pH                    | 7.9               |
| SPECIFIC CONDUCTANCE  | 3480.             |
| TOTAL DISSOLVED SOLIDS| 1870.             |

**ANALYSIS IN PPM**

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<th>Cl</th>
<th>HCO3</th>
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**REFERENCE AND IDENTIFICATION**

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**GEOTHERMAL SAMPLE FILE**

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**WATER ANALYSIS**

| Isotopes | 10/081 |

**COORDINATES**

| LAT/LONG          | 40-50.64 N 111-59.94 W |
| UTH ZONE          | +12                    |
| NORTHING         | 4521748                |
| REFERENCE         | GEOTHERM FILE 101 0017477 |

---

**COORDINATES**

| LAT/LONG          | 40-46.14 N 112-6.96 W |
| UTH ZONE          | +12                    |
| NORTHING         | 4513406                |
| REFERENCE         | GEOTHERM FILE 101 0017523 |

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**COORDINATES**

<p>| LAT/LONG          | 40-46.14 N 112-6.96 W |
| UTH ZONE          | +12                    |
| NORTHING         | 4513406                |
| REFERENCE         | GEOTHERM FILE 101 0017523 |</p>
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<td>Cr</td>
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**Other Analytical Data:** Methane Gas

**Reference and Identification**

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<td>Utah Geological and Mineral Survey</td>
</tr>
<tr>
<td>Reference</td>
<td>Marine, 1960</td>
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**Geothermal Sample File**

**Name of Sample Source:** Salt Lake Co., Water Conservation District

**Location**

- Country: United States
- State: Utah
- County: Salt Lake
- Geologic Province: South Salt Lake

**Sample Description and Conditions**

- Date/Collector: 1958/06/26
- Temperature (°F): 21
- Well Depth (ft): 229
- Discharge: 1055

**Water Analysis**

- pH: 7.5
- Specific Conductance: 578.0
- Total Dissolved Solids: 305

---

**Reference and Identification**

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<td>Utah Geological and Mineral Survey</td>
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<tr>
<td>Reference</td>
<td>Marine, 1960</td>
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**Geothermal Sample File**

**Name of Sample Source:** Salt Lake Co., Water Conservation District

**Location**

- Country: United States
- State: Utah
- County: Salt Lake
- Geologic Province: South Salt Lake
- Msp Reference: Salt Lake City South 1124000

**Sample Description and Conditions**

---

**Reference and Identification**

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<td>Utah Geological and Mineral Survey</td>
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DATE/COLLECTOR........ 1966/09/18
TEMPERATURE (C)........ 22.4
WELL DEPTH (M).......... 229
DISCHARGE.............. 1476, L/MIN

WATER ANALYSIS
PM....................... 7.5
SPECIFIC CONDUCTANCE.... 554, μS/cm
TOTAL DISSOLVED SOLIDS... 372, PPM

ANALYSIS IN PPM
AG................. CO3....... N
AL................. CR........ N
Ca................ FE........ NA........
Bar................. Na+........
Fe(II)............. Fe(III).... Na+K+....
Cl................ HCO3........ NO3..... 0.5

REFERENCE AND IDENTIFICATION
COMPILED BY............. MURPHY, P.
COMPILER AFFILIATION..... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE................ IRONS AND OTHERS: 1966A

ISOPODS (0/0)

---

GEOTHERM SAMPLE_FILE
NAME OF SAMPLE SOURCE.... SALT LAKE COUNTY WATER CONSERVATION DISTRICT
WELL/SPRING NUMBER....... C-3, 111GAB-2
LOCATION
COUNTRY................. UNITED STATES
STATE................... UTAH
COUNTY................. SALT LAKE
GEOLOGIC PROVINCE....... MOUNTAIN RANGE
MAP REFERENCE........... MIDVALE 1124000
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
SAMPLING DESCRIPTION AND CONDITIONS
DATE/COLLECTOR........ 1966/01/25
TEMPERATURE (C)........ 24.4
WELL DEPTH (M).......... 244.4
DISCHARGE.............. 2756, L/MIN

WATER ANALYSIS
PM....................... 7.5
SPECIFIC CONDUCTANCE.... 562, μS/cm
TOTAL DISSOLVED SOLIDS... 343, PPM
CHARGE IMBALANCE (% DIFF)... 1.8

ANALYSIS IN PPM
AG................. CO3....... N
AL................. CR........ N
Ca................ Fe........ Na........
Bar................. Na+........
Fe(II)............. Fe(III).... Na+K+....
Cl................ HCO3........ NO3..... 0.5

REFERENCE AND IDENTIFICATION
COMPILED BY............. ROEDE, H.
COMPILER AFFILIATION..... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE................ IRONS AND OTHERS: 1967
GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SANDY CITY CORP.

LOCATION
COUNTRY............. UNITED STATES
STATE.............. UTAH
COUNTY............ SALT LAKE

GEOLOGIC PROVINCE...

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1959/01/15
TEMPERATURE (°C).... 27.8
WELL DEPTH (M)...... 351.
DISCHARGE.......... 4805. L/MIN

WATER ANALYSIS
pH.................... 7.7
SPECIFIC CONDUCTANCE... 2470.
TOTAL DISSOLVED SOLIDS... 1360.

ANALYSIS IN MG/L
AL********.... CR********.... Mg********.... Na********.... Fe********.... Ca********.... Cl********.... 26. 26. 5102. 27. 352. 116. 620.
H********.... F********.... NaK********.... FeTiO3********.... N03********.... NO3********.... 203. 504. 115. 1.

REFERENCE AND IDENTIFICATION
COMPILED BY......... GOODE, H.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE........ MANINE 1960

---

GEOHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SCHMIDT, W.

LOCATION
COUNTRY............. UNITED STATES
STATE.............. UTAH
COUNTY............ SALT LAKE
GEOLOGIC PROVINCE.... 35
MAP REFERENCE.... SALT LAKE CITY SOUTH 1124000

OTHER LOCALITY INFORMATION LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1967/03/29
TEMPERATURE (°C).... 23.9
WELL DEPTH (M)...... 32.

WATER ANALYSIS
pH.................... 7.8
SPECIFIC CONDUCTANCE... 690.
TOTAL DISSOLVED SOLIDS... 609.

ANALYSIS IN PPM
AG********.... CO3********.... N
AL********.... CR********.... Mg********.... Na********.... FeTiO3********.... 32. 48. 5102. 17. 504. 199.
H********.... F********.... NaK********.... 115.

ISOLOPES (0/001)

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**Reference and Identification**

Compiler: Murphy, P.
Compiler Affiliation: Utah Geological and Mineral Survey
Reference: Jorns and Others, 1968
ANALYSIS IN MG/L
BE***  455  MgO***
CA***  156  N03***  504.  64.  ISOIOPEs 10/001
CL***  ISOIOPEs

REFERENCE AND IDENTIFICATION
COMPILED BY: ODDE. H.
COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MARINE. 1960

RECORD 00366

NAME OF SAMPLE SOURCE... SUDBURY L. W.
LOCATION
COUNTRY.... UNITED STATES
STATE.... UTAH
COUNTY.... SALT LAKE
GEOLOGIC PROVINCE... 35
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1966/03/10
TEMPERATURE (C).... 22.2
WELL DEPTH (M).... 176
OTHER SAMPLE INFORMATION.. ANOTHER ANALYSIS IN 80-11

WATER ANALYSIS
PH.... 7.6
SPECIFIC CONDUCTANCE.... 1490.0
TOTAL DILUTED SOLIDS.... 890.0
CHARGE IMBALANCE (% DIFF).... 2.1

ANALYSIS IN MG/L
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NH***  0.88  NA***  191  S1O2***  35
CA***  76.3  NO3***  264  N03***  1.0
CL***  226.5  K***  16

REFERENCE AND IDENTIFICATION
COMPILED BY: ODDE. H.
COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MARINE. 1960

RECORD 00366

NAME OF SAMPLE SOURCE... SUDBURY L. W.
LOCATION
COUNTRY.... UNITED STATES
STATE.... UTAH
COUNTY.... SALT LAKE
GEOLOGIC PROVINCE... 35
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1966/03/10
TEMPERATURE (C).... 22.2
WELL DEPTH (M).... 176
OTHER SAMPLE INFORMATION.. ANOTHER ANALYSIS IN 80-11

WATER ANALYSIS
PH.... 7.6
### Geothermal Sample File

**Locations**
- **NAME OF SAMPLE SOURCE**: Sudbury, L. w.
- **COUNTRY**: United States
- **STATE**: Utah
- **COUNTY**: Salt Lake
- **TOWNSHIP-RANGE**: 015 001W 18 NW of NW
- **LAT/LONG**: 40.43.56 N 111.59.16 W
- **UTM ZONE**: +12
- **NORTHING**: 4508597
- **EASTING**: 416731

**Sample Description and Conditions**
- **DATE/PROCESSOR**: 1957/06/08
- **SAMPLE**: 74
- **TOTAL DISSOLVED SOLIDS**: 1298
- **ANALYSIS IN MG/L**
  - **AL**: 26
  - **CR**: 26
  - **F**: 164
  - **NA**: 5102
  - **SiO2**: 37
  - **Fe**: 504
  - **NH4**: 73
  - **Ca**: 58
  - **HCO3**: 144
  - **NO3**: 0.6
  - **Cl**: 290

**Geothermal Sample File**

**Locations**
- **NAME OF SAMPLE SOURCE**: Sudbury, L. w.
- **COUNTRY**: United States
- **STATE**: Utah
- **COUNTY**: Salt Lake
- **TOWNSHIP-RANGE**: 015 001W 18 NW of NW
- **LAT/LONG**: 40.43.56 N 111.59.16 W
- **UTM ZONE**: +12
- **NORTHING**: 4508597
- **EASTING**: 416731

**Sample Description and Conditions**
- **DATE/PROCESSOR**: 1957/06/08
- **SAMPLE**: 74
- **TOTAL DISSOLVED SOLIDS**: 1298
- **ANALYSIS IN MG/L**
  - **AL**: 26
  - **CR**: 26
  - **F**: 164
  - **NA**: 5102
  - **SiO2**: 37
  - **Fe**: 504
  - **NH4**: 73
  - **Ca**: 58
  - **HCO3**: 144
  - **NO3**: 0.6
  - **Cl**: 290

**Geothermal Sample File**

**Locations**
- **NAME OF SAMPLE SOURCE**: Sudbury, L. w.
- **COUNTRY**: United States
- **STATE**: Utah
- **COUNTY**: Salt Lake
- **TOWNSHIP-RANGE**: 015 001W 18 NW of NW
- **LAT/LONG**: 40.43.56 N 111.59.16 W
- **UTM ZONE**: +12
- **NORTHING**: 4508597
- **EASTING**: 416731

**Sample Description and Conditions**
- **DATE/PROCESSOR**: 1957/06/08
- **SAMPLE**: 74
- **TOTAL DISSOLVED SOLIDS**: 1298
- **ANALYSIS IN MG/L**
  - **AL**: 26
  - **CR**: 26
  - **F**: 164
  - **NA**: 5102
  - **SiO2**: 37
  - **Fe**: 504
  - **NH4**: 73
  - **Ca**: 58
  - **HCO3**: 144
  - **NO3**: 0.6
  - **Cl**: 290

**References and Identification**
- **COMPILED BY**: Murphy, P.
- **COMPILER AFFILIATION**: Utah Geological and Mineral Survey
- **REFERENCE**: Marine, 1980

**References and Identification**
- **COMPILED BY**: Murphy, P.
- **COMPILER AFFILIATION**: Utah Geological and Mineral Survey
- **REFERENCE**: Marine, 1980

**References and Identification**
- **COMPILED BY**: Murphy, P.
- **COMPILER AFFILIATION**: Utah Geological and Mineral Survey
- **REFERENCE**: Marine, 1980
**WATER ANALYSIS**

**PH** ........................ 7.6

**SPECIFIC CONDUCTANCE** ........................ 1270.

**TOTAL DISSOLVED SOLIDS** ........................ 699.

**ANALYSIS IN NO/L**

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**REFERENCE AND IDENTIFICATION**

**COMPILED BY** ............................... MURPHY, P.

**COMPILER AFFILIATION** ........................ UTAH GEOLOGICAL AND MINERAL SURVEY

**REFERENCE** ................................. MARINE, 1960

---

**GEOTHERMAL SAMPLE FILE**

**NAME OF SAMPLE SOURCE** ........................ SUDBURY, S. A.

**WELL/SPRING NUMBER** .......................... (C- 1-1) 18000-2

**LOCATION**

**COUNTRY** ................................. UNITED STATES

**TOWNSHIP**-**RANGE** .......................... 01S 001W 18 SE OF SE SE

**STATE** ...................................... UTAH

**COUNTY** .................................... SALT LAKE

**GEOLOGIC PROVINCE** .......................... SALT LAKE CITY SOUTH 1124000

**MAP REFERENCE** .............................. SALT LAKE CITY SOUTH 1124000

**OTHER LOCALITY INFORMATION**

**LUCATION APPROXIMATE**

**DATE/COLLECTOR** ............................. 1964/07/07

**TEMPERATURE (C)** ............................ 20.6

**WELL DEPTH (M)** ............................. 176

**DISCHARGE** ................................. 6.8 L/Min

**WATER ANALYSIS**

**PH** ................................. 8.1

**SPECIFIC CONDUCTANCE** ........................ 1280.

**TOTAL DISSOLVED SOLIDS** ........................ 766.

**ANALYSIS IN PPM**

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**REFERENCE AND IDENTIFICATION**

**COMPILED BY** ............................... MURPHY, P.

**COMPILER AFFILIATION** ........................ UTAH GEOLOGICAL AND MINERAL SURVEY

**REFERENCE** ................................. MARINE, 1960

---

**GEOTHERMAL SAMPLE FILE**

**NAME OF SAMPLE SOURCE** ........................ SUDBURY, S. A.

**WELL/SPRING NUMBER** .......................... (C- 1-1) 18000-2

**LOCATION**

**COUNTRY** ................................. UNITED STATES

**TOWNSHIP**-**RANGE** .......................... 01S 001W 18 SE OF SE SE

**STATE** ...................................... UTAH

**COUNTY** .................................... SALT LAKE

**GEOLOGIC PROVINCE** .......................... SALT LAKE CITY SOUTH 1124000

**MAP REFERENCE** .............................. SALT LAKE CITY SOUTH 1124000

**OTHER LOCALITY INFORMATION**

**LOCATION APPROXIMATE**

**DATE/COLLECTOR** ............................. 1964/07/07

**TEMPERATURE (C)** ............................ 20.6

**WELL DEPTH (M)** ............................. 176

**DISCHARGE** ................................. 6.8 L/Min

**WATER ANALYSIS**

**PH** ................................. 8.1

**SPECIFIC CONDUCTANCE** ........................ 1280.

**TOTAL DISSOLVED SOLIDS** ........................ 766.

**ANALYSIS IN PPM**

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**REFERENCE AND IDENTIFICATION**

**COMPILED BY** ............................... MURPHY, P.

**COMPILER AFFILIATION** ........................ UTAH GEOLOGICAL AND MINERAL SURVEY

**REFERENCE** ................................. MARINE, 1960
GEOLOGIC PROVINCE
MAP REFERENCE... SALT LAKE CITY SOUTH 1124000
OTHER LOCALITY INFORMATION LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1965/02/19
TEMPERATURE (C)... 20.0

WATER ANALYSIS
PH... 7.5
SPECIFIC CONDUCTANCE... 1250
TOTAL DISSOLVED SOLIDS... 771

ANALYSIS IN PPM
AG... 40
AL... 20
BA... 169
BE... 504
CA... 51
CL... 205
CO3... 144
CR... 20
Fe... 1
Fe(TQ... 144
Mg... 20
Na... 1
Na+K... 86
NO3... 1

REFERENCES AND IDENTIFICATION
COMPILED BY.... MURPHY, P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE... TURMS AND OTHERS: 1966B

GEOCHEMICAL TABLE
NAME OF SAMPLE SOURCE... TOWERS, H.A.
WELL/Spring number... 10-2 E170CD-7
LOCATION
COUNTRY... UNITED STATES
STATE... UTAH
COUNTY... SALT LAKE
GEOLOGIC PROVINCE... SUGAR HOUSE 1124000

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1967/06/28
TEMPERATURE (C)... 20.0
WELL DEPTH (M)... 143

WATER ANALYSIS
PH... 7.5
SPECIFIC CONDUCTANCE... 577
TOTAL DISSOLVED SOLIDS... 369

ANALYSIS IN H2O/L
AG... 40
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BA... 169
BE... 504
CA... 51
CR... 20
Fe... 1
Fe(TQ... 144
Mg... 20
Na... 1
Na+K... 86
NO3... 1

REFERENCES AND IDENTIFICATION
COMPILED BY.... GOODE, H.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE... TURMS AND OTHERS: 1966B


**GEOTHERMAL SAMPLE FILE**

**NAME OF SAMPLE SOURCE**... UNNAMED SPRING

**WELL/SPRING NUMBER**... (C)- 1123693-51

**LOCATION**

**COUNTRY**... UNITED STATES

**TOWNSHIP-RANGE**... 04S 001W 23 NW OF NW SW

**COORDINATES**

**LAT/LONG**... 40-27.36 N 111-55.82 W

**UTM ZONE**... 12

**NORTING**... 441398

**H**... 4471729

**MAP REFERENCE**... JORDAN HANROWS 1124000

**SAMPLE DESCRIPTION AND CONDITIONS**

**DATE/COLLECTOR**... 1966/04/08

**TEMPERATURE (C)**... 22.7

**WATER ANALYSIS**

**PH**... 7.7

**SPECIFIC CONDUCTANCE**... 629

**TOTAL DISSOLVED SOLIDS**... 373

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**COMPILED BY**... GOOCH, H.

**COMPILER AFFILIATION**... UTAH GEOLOGICAL AND MINERAL SURVEY

**REFERENCE**... HELVE AND OTHERS, 1977

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**GEOTHERMAL SAMPLE FILE**

**NAME OF SAMPLE SOURCE**... UNNAMED SPRING

**LOCATION**

**COUNTRY**... UNITED STATES

**TOWNSHIP-RANGE**... 01N 002W 25 NE OF SW

**COORDINATES**

**LAT/LONG**... 40-47.28 N 112-0.90 W

**UTM ZONE**... 12

**NORTING**... 4515558

**EASTING**... 414361

**SAMPLE DESCRIPTION AND CONDITIONS**

**DATE/COLLECTOR**... 1958/08/19

**TEMPERATURE (C)**... 29

**WATER ANALYSIS**

**PH**... 8.4

**SPECIFIC CONDUCTANCE**... 464400

**TOTAL DISSOLVED SOLIDS**... 31800

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**REFERENCE AND IDENTIFICATION**

**COMPILED BY**... MURPHY, P.
GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE: Utah Power and Light Co.
WELL/SPRING NUMBER: 21DO0-1

LOCATION
COUNTRY: United States
STATE: Utah
COUNTY: Salt Lake
GEOLOGIC PROVINCE:
MAP REFERENCE: Saltair 1124000
OTHER LOCALITY INFORMATION: Location approximate

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1956/11/28
TEMPERATURE (°C): 20.0
WELL DEPTH (M): 187
DISCHARGE: 45.0 L/MIN

MASS ANALYSIS
PH: 7.6
SPECIFIC CONDUCTANCE: 1450.0
TOTAL DISSOLVED SOLIDS: 831.0

ANALYSIS IN PPM
AG: CO3: NO:
CA: Cr:
K: Fe:3.0:
Mg: Fe(Tot):
Na: NO3: 180:
Cl: 349:

REFERENCE AND IDENTIFICATION
COMPILED BY: Goode, H.
COMPILED AFFILIATION: Utah Geological and Mineral Survey
REFERENCE: Mely and others, 1967

ISOIOPES 10/001

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE: Wasatch Hot Springs
WELL/SPRING NUMBER: 8-1 11250-8

LOCATION
COUNTRY: United States
STATE: Utah
COUNTY: Salt Lake
GEOLOGIC PROVINCE:
MAP REFERENCE: Salt Lake City North 1124000
OTHER LOCALITY INFORMATION: Location approximate

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1934/03/16
MASS ANALYSIS
DATE/ANALYST: Salt Lake City Corp.
TOTAL DISSOLVED SOLIDS: 12800
CHARGE IMBALANCE (% DIFF): 0.7
ANALYSIS IN PPM

ISOIOPES 10/001
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**Reference and Identification**

Compiled by: Murphy, P.
Compiler Affiliation: Utah Geological and Mineral Survey
Reference: Munderff, 1970

**Geothermal Sample File**

**Name of Sample Source**: Wasatch Hot Springs
**Well/Spring Number**: 8-1 112500-5

**Location**
- **Country**: United States
- **State**: Utah
- **County**: Salt Lake
- **Geologic Province**: Salt Lake
- **Map Reference**: Salt Lake City North 1124000

**Sample Description and Conditions**

**Date/Collector**: 1935/05/00

**Water Analysis**
- **Date/Analyst**: Salt Lake City Corporation
- **Total Dissolved Solids**: 8080
- **Charge Imbalance (% Diff)**: 1.6

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**Reference and Identification**

Compiled by: Murphy, P.
Compiler Affiliation: Utah Geological and Mineral Survey
Reference: Munderff, 1970
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**ANALYSIS IN PPM**

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**ISOTOPES (0/001)**

**REFERENCE AND IDENTIFICATION**

- **Compiled by:** Murphy, P.
- **Compiler Affiliation:** Utah Geological and Mineral Survey
- **Reference:** Mundorff, 1970

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**GEOThERM SAMPLE FILE**

**NAME OF SAMPLE SOURCE:** Wasatch Hot Springs

**WELL/SPRING NUMBER:** 8-1-112508-S

**LOCATION**

- **COUNTRY:** United States
- **STATE:** Utah
- **COUNTY:** Salt Lake
- **GEOLOGIC PROVINCE:** Salt Lake
- **MAP REFERENCE:** Salt Lake City North 1124000

**COORDINATES**

- **LAT/LONG:** 40-47-4 N 111-53.99 W
- **UTM Zone:** 12
- **NORTHING:** 4515396
- **EASTING:** 424402

**SAMPLE DESCRIPTION AND CONDITIONS**

**DATE/RETOLLECTOR:** 1940/03/16

**PERMENENT LITHOLOGY:** Salt Lake City Corporation

---

**GEOThERM SAMPLE FILE**

**NAME OF SAMPLE SOURCE:** Wasatch Hot Springs

**WELL/SPRING NUMBER:** 8-1-112508-S

**LOCATION**

- **COUNTRY:** United States
- **STATE:** Utah
- **COUNTY:** Salt Lake
- **GEOLOGIC PROVINCE:** Salt Lake
- **MAP REFERENCE:** Salt Lake City North 1124000

**COORDINATES**

- **LAT/LONG:** 40-47-4 N 111-53.99 W
- **UTM Zone:** 12
- **NORTHING:** 4515396
- **EASTING:** 424402

---

**REFERENCE AND IDENTIFICATION**

- **Compiled by:** Murphy, P.
- **Compiler Affiliation:** Utah Geological and Mineral Survey
- **Reference:** Mundorff, 1970

---

**GEOThERM SAMPLE FILE**

**NAME OF SAMPLE SOURCE:** Wasatch Hot Springs

**WELL/SPRING NUMBER:** 8-1-112508-S

**LOCATION**

- **COUNTRY:** United States
- **STATE:** Utah
- **COUNTY:** Salt Lake
- **GEOLOGIC PROVINCE:** Salt Lake
- **MAP REFERENCE:** Salt Lake City North 1124000

**COORDINATES**

- **LAT/LONG:** 40-47-4 N 111-53.99 W
- **UTM Zone:** 12
- **NORTHING:** 4515396
- **EASTING:** 424402
OTHER LOCALITY INFORMATION: ONE MILE N-NW OF TEMPLE SQUARE IN SALT LAKE CITY; LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION: 1965/11/03
TEMPERATURE (C): 42.
PERTINENT LITHOLOGY: SPRINGS ISSUE ALONG WARM SPRINGS FAULT.

WATER ANALYSIS
PH: 8.0
SPECIFIC CONDUCTANCE: 13700.
TOTAL DISSOLVED SOLIDS: 8590.
CHARGE IMBALANCE (% DIFF): 0.6

ANALYSIS IN PPM
AG: 109
CA: 1.9
Fe: 0.9
Mg: 2410.
Na: 504.

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HELY AND OTHERS, 1967

GEOHERMAL SAMPLE FILE
WELL/SPRING NUMBER: 0-1-00185-25
SOURCE: WASATCH HOT SPRINGS
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: SALT LAKE
GEOLOGIC PROVINCE:
MAP REFERENCE: SALT LAKE CITY NORTH 1124000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION: 1965/11/03
TEMPERATURE (C): 42.

WATER ANALYSIS
PH: 7.9
SPECIFIC CONDUCTANCE: 9400.
TOTAL DISSOLVED SOLIDS: 6000.
CHARGE IMBALANCE (% DIFF): 0.5

ANALYSIS IN PPM
Ag: 90.
Ca: 1620.
Na: 504.
Cl: 244.

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HELY AND OTHERS, 1968
**Geothermal Sample File**

**Name of Sample Source:** Young, K. W.

**Location:**
- **Country:** United States
- **State:** Utah
- **County:** Salt Lake
- **Geologic Province:** 35

**Sample Description and Conditions:**
- **Date/Collector:** 1958/08/05
- **Temperature (°C):** 21°
- **Well Depth (m):** 32°

**Water Analysis:**
- **pH:** 7.9
- **Specific Conductance:** 1890.
- **Total Dissolved Solids:** 1170.

**Analysis in mg/L:**
- **Ca:** 3.0
- **HCO₃:** 264
- **Cl:** 312
- **Fe:** 0.01
- **Na:** 354
- **NO₃:** 13
- **Mg:** 17
- **SO₄:** 82
- **Mn:** 504
- **NO₂:** 224

**Isotopes (O/Na):**

**Reference and Identification:**
- **Compiled By:** Murphy, P.
- **Compiler Affiliation:** Utah Geological and Mineral Survey

---

**Geothermal Sample File**

**Name of Sample Source:** Young, K. W.

**Location:**
- **Country:** United States
- **State:** Utah
- **County:** Salt Lake
- **Geologic Province:** 35

**Sample Description and Conditions:**
- **Date/Collector:** 1958/08/05
- **Temperature (°C):** 21.5
- **Discharge:** 227°

**Water Analysis:**
- **pH:** 7.8
- **Specific Conductance:** 1890.
- **Total Dissolved Solids:** 1140.

**Analysis in mg/L:**
- **Ca:** 29
- **Mg:** 15
- **Fe:** 0.01
- **Na:** 347
- **SO₄:** 81
- **Mn:** 504
- **NO₂:** 224
- **Cl:** 304

**Isotopes (O/Na):**

**Reference and Identification:**
- **Compiled By:** Murphy, P.
- **Compiler Affiliation:** Utah Geological and Mineral Survey
**Geotherm Sample File**

**NAME OF SAMPLE SOURCE:** BLUFF Irr. Co.

**LOCATION**
- **COUNTRY:** UNITED STATES
- **TOWNSHIP:** 40S
- **RANGE:** 22E
- **SECTION:** 30

**MAP REFERENCE:** BLUFF 1162500

**TEMPERATURE (C):** 20.0

**DISCHARGE:** 123 L/MIN

**WATER ANALYSIS**
- **pH:** 8.0
- **SPECIFIC CONDUCTANCE:** 591 µs/cm
- **TOTAL DISSOLVED SOLIDS:** 387 ppm

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<th><strong>VALUE</strong></th>
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<tbody>
<tr>
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<tr>
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<tr>
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<tr>
<td><strong>NO</strong></td>
<td>53.0</td>
</tr>
<tr>
<td><strong>HCO</strong></td>
<td>320.0</td>
</tr>
</tbody>
</table>

**REFERENCE AND IDENTIFICATION**
- **COMPILED BY:** MURPHY, P.
- **COMPILER AFFILIATION:** UTAH GEOLOGICAL AND MINERAL SURVEY
- **REFERENCE:** FELTIS, 1966

---

**Geotherm Sample File**

**NAME OF SAMPLE SOURCE:** BUREAU OF INDIAN AFFAIRS 12R-173

**LOCATION**
- **COUNTRY:** UNITED STATES
- **TOWNSHIP:** 40S
- **RANGE:** 25E
- **SECTION:** 05

**MAP REFERENCE:** CAJON MESA 1162500

**SAMPLE DESCRIPTION AND CONDITIONS**
- **DATE/COLLECTOR:** 1954/09/08
- **TEMPERATURE (C):** 20.0

**WATER ANALYSIS**
- **SPECIFIC CONDUCTANCE:** 3930 µs/cm
- **TOTAL DISSOLVED SOLIDS:** 2690 ppm

<table>
<thead>
<tr>
<th><strong>ANALYSIS IN PPM</strong></th>
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<tbody>
<tr>
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<td><strong>HCO</strong></td>
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**REFERENCE AND IDENTIFICATION**
- **COMPILED BY:** MURPHY, P.
- **COMPILER AFFILIATION:** UTAH GEOLOGICAL AND MINERAL SURVEY
- **REFERENCE:** FELTIS, 1966

---

**Geotherm Sample File**

**NAME OF SAMPLE SOURCE:** U.S. DEPARTMENT OF THE INTERIOR

**LOCATION**
- **COUNTRY:** UNITED STATES
- **TOWNSHIP:** 40S
- **RANGE:** 25E
- **SECTION:** 05

**MAP REFERENCE:** CAJON MESA 1162500

**SAMPLE DESCRIPTION AND CONDITIONS**
- **DATE/COLLECTOR:** 1954/09/08
- **TEMPERATURE (C):** 20.0

**WATER ANALYSIS**
- **SPECIFIC CONDUCTANCE:** 3930 µs/cm
- **TOTAL DISSOLVED SOLIDS:** 2690 ppm

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<td><strong>NO</strong></td>
<td>53.0</td>
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<tr>
<td><strong>HCO</strong></td>
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</table>
GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE: BUREAU OF INDIAN AFFAIRS 2A-104

LOCATION: TOWNSHIP-RANGE

COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: SAN JUAN
геологический район:евакоала МОТАН 1162500

MAP REFERENCE: NAVAJO MOUNTAIN 1162500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTED: 1953/09/11
TEMPERATURE (C): 21.1
DISCHARGE: 40 L/MIN

PERTINENT LITHOLOGY: PRODUCING FORMATION IS NAVAJO SANDSTONE.

WATER ANALYSIS
SPECIFIC CONDUCTANCE: 43.3
TOTAL DISSOLVED SOLIDS: 3550

ANALYSIS IN PPM

AL... CR... Na... Mg... SiO2... FeO3...
Ba... 0.4... 1350... 20... 16... 12...
FeO3... 54... HCO3... 2300... NO3... 4.1...

REFERENCE AND IDENTIFICATION

COMPILED BY: GOODE, H.
COMPILE AFILLIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: FELTIS, 1966

RECORD 00366

GEOTHERMAL FILE 111 0017211
DATE/COLLECTOR: 1984/09/09
TEMPERATURE (°C): 21.1
PERTINENT LITHOLOGY: PRODUCING FORMATION IS ORGAN ROCK TONGUE OF CUTLER FORMATION.

WATER ANALYSIS
SPECIFIC CONDUCTANCE: 1470
TOTAL DISSOLVED SOLIDS: 944

ANALYSIS IN PPM
AG+++ CO3--- NO3- Mg++ 14 3102 17
AL+++ CH+++ 1.2 Na++ 313 504 230
BA+++ FE+++ NAI+++ 12
NH4+++ 20
CA+++ 466
CL+++ 110

REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, M.
COMPILERS AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: FELTIS, 1986

REPORT 00390

GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE: BUREAU OF INDIAN AFFAIRS BA-281
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: SAN JUAN
GEOLOGIC PROVINCE:
MAP REFERENCE: MEXICAN HAT 1162500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1984/09/09
TEMPERATURE (°C): 22.2
DISCHARGE: 15

WATER ANALYSIS
SPECIFIC CONDUCTANCE: 1470
TOTAL DISSOLVED SOLIDS: 944

ANALYSIS IN PPM
AG+++ CO3--- NO3- Mg++ 14 3102 17
AL+++ CH+++ 1.2 Na++ 313 504 230
BA+++ FE+++ NAI+++ 12
NH4+++ 166
CA+++ 327
CL+++ 23

REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, M.
COMPILERS AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: FELTIS, 1986

REPORT 00390

GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE: BUREAU OF INDIAN AFFAIRS BA-281
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: SAN JUAN
GEOLOGIC PROVINCE:
MAP REFERENCE: MEXICAN HAT 1162500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1984/09/09
TEMPERATURE (°C): 22.2
DISCHARGE: 15

WATER ANALYSIS
SPECIFIC CONDUCTANCE: 1470
TOTAL DISSOLVED SOLIDS: 944

ANALYSIS IN PPM
AG+++ CO3--- NO3- Mg++ 14 3102 17
AL+++ CH+++ 1.2 Na++ 313 504 230
BA+++ FE+++ NAI+++ 12
NH4+++ 166
CA+++ 327
CL+++ 23

REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, M.
COMPILERS AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: FELTIS, 1986

REPORT 00390

GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE: BUREAU OF INDIAN AFFAIRS BA-281
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: SAN JUAN
GEOLOGIC PROVINCE:
MAP REFERENCE: MEXICAN HAT 1162500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1984/09/09
TEMPERATURE (°C): 22.2
DISCHARGE: 15

WATER ANALYSIS
SPECIFIC CONDUCTANCE: 1470
TOTAL DISSOLVED SOLIDS: 944

ANALYSIS IN PPM
AG+++ CO3--- NO3- Mg++ 14 3102 17
AL+++ CH+++ 1.2 Na++ 313 504 230
BA+++ FE+++ NAI+++ 12
NH4+++ 166
CA+++ 327
CL+++ 23

REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, M.
COMPILERS AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: FELTIS, 1986

REPORT 00390
STATE: UTAH
COUNTY: SAN JUAN
GEOLOGIC PROVINCE: 36
MAP REFERENCE: GOULDING 1162500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1954/09/17
TEMPERATURE (C): 23.3
DISCHARGE: 7.6 L/MIN
PREFERRED LITHOLOGY: PRODUCING FORMATION IS MALGAITO TONGUE OF CUTLER FORMATION.
WATER ANALYSIS
SPECFIFIC CONDUCTANCE: 2670.
TOTAL DISSOLVED SOLIDS: 2490.
ANALYSIS IN PPM

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ISOTOPES (10/00)

REFERENCE AND IDENTIFICATION

COLLATOR: GOODE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: FELTIS 1966
**GEOTHERM SAMPLE FILE**

**NAME OF SAMPLE SOURCE:** Bureau of Indian Affairs 9Y-57

**LOCATION:**
- **COUNTY:** United States 435 023E 32
- **STATE:** Utah
- **COUNTRY:** San Juan
- **GEOLOGIC PROVINCE:** White Mesa Village 1162500

**MAP REFERENCE:**
- **DATE/RECORER:** 1954/09/20
- **TEMPERATURE (C):** 20.0
- **DISCHARGE:** 1.9 L/MIN
- **PERSUAK LITHOLOGY:** Producing formation is Wingate Sandstone.

**DATA ANALYSIS**
- **SPECIFIC CONDUCTANCE:** 228.0
- **ANALYSIS IN PPM**
  - **GU:** 30.0
  - **Fe:** 130.0
  - **Cl:** 5.5
- **REFERENCE AND IDENTIFICATION**
  - **COMPILE BY:** Goodell, H.
  - **COMPILER AFFILIATION:** Utah Geological and Mineral Survey
  - **REFERENCE:** Feltis, 1966

**GEOTHERM SAMPLE FILE**

**NAME OF SAMPLE SOURCE:** Bureau of Indian Affairs 12R-163

**LOCATION:**
- **COUNTY:** United States 395 026E 33
- **STATE:** Utah
- **COUNTRY:** San Juan
- **GEOLOGIC PROVINCE:** Cajon Mesa 1162500

**MAP REFERENCE:**
- **DATE/RECORER:** 1954/09/08
- **TEMPERATURE (C):** 22.7
- **PERSUAK LITHOLOGY:** Producing formation is Dakota Sandstone.

**DATA ANALYSIS**
- **SPECIFIC CONDUCTANCE:** 2500.0
- **TOTAL DISSOLVED SOLIDS:** 1760.0
- **ANALYSIS IN PPM**
  - **CO3:** N
  - **AL:** 1.1
  - **Fe:** 556.0
  - **CA:** 25.0
  - **Cl:** 44.
- **REFERENCE AND IDENTIFICATION**
  - **COMPILE BY:** Goodell, H.
  - **COMPILER AFFILIATION:** Utah Geological and Mineral Survey
  - **REFERENCE:** Feltis, 1966
<table>
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<th><strong>LOCATION</strong></th>
<th><strong>TOWNSHIP-RANGE</strong></th>
<th><strong>COORDINATES</strong></th>
</tr>
</thead>
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<td>LAT/LONG: 37-23.04 N 109-4.02 W</td>
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<td>COUNTY: SAN JUAN</td>
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**SAMPLE DESCRIPTION AND CONDITIONS**
- **DATE/COLLECTION:** 1964/03/10
- **TEMPERATURE (C):** 21
- **DISCHARGE:** 110 L/MIN
- **PERMITTED LITHOLOGY:** PRODUCING FORMATIONS ARE ENTRADA AND NAVAJO SANDSTONES.

**WATER ANALYSIS**
- **PH:** 8.8
- **SPECIFIC CONDUCTANCE:** 16.30
- **TOTAL DISSOLVED SOLIDS:** 1070

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<tr>
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<th>CONCENTRATION (mg/L)</th>
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<tr>
<td>AG+</td>
<td>CO3</td>
</tr>
<tr>
<td>AL+</td>
<td>CR</td>
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<tr>
<td>B</td>
<td>Cl</td>
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<td>F</td>
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<tr>
<td>BE</td>
<td>HCO3</td>
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<td>CA</td>
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**REFERENCE AND IDENTIFICATION**
- **COMPILED BY:** MURPHY, P.
- **COMPILER AFFILIATION:** UTAH GEOLOGICAL AND MINERAL SURVEY
- **REFERENCE:** FELTIS, 1966

---

**LOCATION**
- **TOWNSHIP-RANGE:** 35S 014E 30

**SAMPLE DESCRIPTION AND CONDITIONS**
- **DATE/COLLECTION:** 1963/06/09
- **TEMPERATURE (C):** 25.5
- **DISCHARGE:** 189 L/MIN
- **PERMITTED LITHOLOGY:** PRODUCING FORMATION IS MUENKOPF.
- **OTHER SAMPLE INFORMATION:** FROM LARGE JOINT WITH SOME GAS ISSUING FROM BOTTOM OF WASH.

**WATER ANALYSIS**
- **PH:** 7.5
- **SPECIFIC CONDUCTANCE:** 271.0
- **TOTAL DISSOLVED SOLIDS:** 1680

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<tbody>
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<td>AL+</td>
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**REFERENCE AND IDENTIFICATION**
- **COMPILED BY:** MURPHY, P.
- **COMPILER AFFILIATION:** UTAH GEOLOGICAL AND MINERAL SURVEY
- **REFERENCE:** FELTIS, 1966
LOCATION
COUNTRY: United States
STATE: Utah
COUNTY: Cache
GEOLOGIC PROVINCE: Cache Uplift
MAP REFERENCE: Manti 124000

SAMPLING AND CONDITIONS
DATE/COLLECTION: 1972/01/20
TEMPERATURE (C): 55
WELL DEPTH (M): 2776
DISCHARGE: 110% L/min
OTHER SAMPLE INFORMATION: Cased to 5598. Plugged 5800-5900 flow between plug & casing.

WATER ANALYSIS
PH: 6.0
SPECIFIC CONDUCTANCE: 47.1
TOTAL DISSOLVED SOLIDS: 302

ISOTOPES (00/00)

REFERENCE AND IDENTIFICATION
COMPILERS: D. W. Murphy
REFERENCE: Robinson, 1968
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1961/02/06
TEMPERATURE (°C): 52.2
ISOTOPES (10/65)

TOTAL DISSOLVED SOLIDS: 635
ANALYSIS IN PPM
AL: 15
B: 0.7
Ba: 129
Ca: 26
Cl: 55
CO3: 421

QUALIFICATION FIELD: TEMPERATURE MEASURED ON 10/20/65
REFERENCE AND IDENTIFICATION
COMPILER: P. MURPHY
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HUNDORFF, 1970

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: STERLING WARM SPRING
WELL/SPRING NUMBER: (D=19-2) 40CA-S1
LOCATION
COUNTY: UNITED STATES
STATE: UTAH
COUNTY: SANPETE
GEOLOGIC PROVINCE: 36
MAP REFERENCE: STERLING 1124000

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1957/08/27
TEMPERATURE (°C): 52.4
ISOTOPES (10/65)

TOTAL DISSOLVED SOLIDS: 429
ANALYSIS IN PPM
Al: 12.4
Ca: 31.1
Cl: 34
CO3: 34

REFERENCE AND IDENTIFICATION
COMPILER: P. MURPHY
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HUNDORFF, 1970
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: SANPETE
GEOLOGIC PROVINCE: STERLING 1124000
MAP REFERENCE: STERLING 1124000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1966/00/00
TEMPERATURE (C): 26.6
OTHER SAMPLE INFORMATION: H2S
WATER ANALYSIS
PH: 8.1
SPECIFIC CONDUCTANCE: 780
TOTAL DISSOLVED SOLIDS: 440
ANALYSIS IN PPM
AL: 0.21
AS: 0.02
CA: 31
CL: 42
CO: 2.2
CR: 0.2
FE: 0.02
Mg: 0.2
Mn: 0.2
Na: 0.2
NO: 0.2
SI: 0.2
WATER BLOWING
ISOTOPES 10/00/1

REFERENCE AND IDENTIFICATION
COMPILER: MURPHY, P.
AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: ROBINSON, 1966

GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE: JOHNSON WARM SPRING
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: SEVIER
GEOLOGIC PROVINCE: 36
MAP REFERENCE: MONROE 1162500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1966/00/00
TEMPERATURE (C): 26.6
DISCHARGE: 691 L/MIN
REFERENCE AND IDENTIFICATION
COMPILER: GOODE, H.
AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: RICHARDSON, 1967

COORDINATES
LAT/LONG: 39-36.18 N 112-06.66 W
UTM ZONE: 12
MORNING: 4337104.
RECORD 00400
GEOTHERM FILE 101 0017246

COORDINATES
LAT/LONG: 39-36.18 N 112-06.66 W
UTM ZONE: 12
MORNING: 4273112.
RECORD 00401
GEOTHERM FILE 101 0017245
OTHER LOCALITY INFORMATION: TWO MILES SOUTH OF MONROE HIGH SCHOOL.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTED: 1967/07/23
TEMPERATURE (°C): 25.0
DISCHARGE: 37.9 L/MIN
PERMISSIBLE LITHOLOGY: SPRING ISSUES ALONG THE SEVIER FAULT.

WATER ANALYSIS
PH: 7.4
SPECIFIC CONDUCTANCE: 623.0
TOTAL DISSOLVED SOLIDS: 428.0

ANALYSIS IN PPM

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PHYSICAL IDENTIFICATION
COMPILED BY: GOODE, H.
COMPILER AFFILIATION: UTHER GEOLICAL AND MINERAL SURVEY
REFERENCE: MUNDORFF, 1970

GEOXERM SAMPLE FILE
NAME OF SAMPLE SOURCE: JOSEPH HOT SPRING
WELL/SPRING NUMBER: (C-25-4)2344

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: SEVIER
GEOLOGIC PROVINCE: MONROE
TOWNSHIP-RANGE: 25S 004W 23 SW OF NE NE

COORDINATES
LAT/LONG: 36.36.85 N 112.12.06 W
UTM ZONE: +12
NORTHING: 4274531
395436.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTED: 1967/07/23
TEMPERATURE (°C): 54.4

WATER ANALYSIS
PH: 6.9
SPECIFIC CONDUCTANCE: 7790.
TOTAL DISSOLVED SOLIDS: 4150.
CHANGE IMBALANCE (S DIFF.): 0.4

ANALYSIS IN PPM

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GEOThERM SAMPLE FILE

NAME OF SAMPLE SOURCE... JOSEPH HOT SPRING
WELL/SPRING NUMBER...... (C-25) 423AAC

LOCATION
COUNTRY.............. UNITED STATES
STATE.............. UTAH
COUNTY.............. SEvier
GEOLOGIC PROVINCE.... MONROE 1162500
MAP REFERENCE...... MONROE 1162500

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION..... 1957/09/11
TEMPERATURE (C)...... 63.8
DISCHARGE............ E 379. L/MIN

ACCOMPANYING LITHOLGY.... SOURCE IN TERTIARY VOLCANICS

WATER ANALYSIS
P... 6.6
SPECIFIC CONDUCTANCE...... 7520.
TOTAL DISSOLVED SOLIDS...... 4770.
CHARGE IN BALANCE (pH DIFF)... 3.2

ANALYSIS IN PPM
AG.... 4.8
AL.... 264.
Ca.... 1690.

REFERENCE AND IDENTIFICATION
COMPILED BY.............. GOODE, H.
COMPILER AFFILIATION..... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE................ CARPENTER AND YOUNG, 1963

GEOThERM SAMPLE FILE

NAME OF SAMPLE SOURCE... JOSEPH HOT SPRINGS
WELL/SPRING NUMBER...... (C-25) 423AAC

LOCATION
COUNTRY.............. UNITED STATES
STATE.............. UTAH
COUNTY.............. SEvier
GEOLOGIC PROVINCE.... MONROE 1162500
MAP REFERENCE...... MONROE 1162500

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION..... 1967/05/15
TEMPERATURE (C)...... 64.4

WATER ANALYSIS
P... 7.8

REFERENCE AND IDENTIFICATION
COMPILED BY.............. GOODE, H.
COMPILER AFFILIATION..... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE................ CARPENTER AND YOUNG, 1963
**SPECIFIC CONDUCTANCE**: 7530,
**TOTAL DISSOLVED SOLIDS**: 5180,

**ANALYSIS IN PPM**

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**REFERENCE AND IDENTIFICATION**

Compiled By: Lawson, William
Compiler Affiliation: U.S. Geological Survey

**GEOCHEMICAL SAMPLE**

**NAME OF SAMPLE SOURCE**: Joseph Hot Springs
**WELL/SUMMER NUMBER**: C-25-4, 23-5

**LOCATION**

**COUNTRY**: United States
**STATE**: Utah
**COUNTY**: Sevier
**GEOLOGIC PROVINCE**: Map Reference: Monroe 1162500

**SAMPLE DESCRIPTION AND CONDITIONS**

**DATE/COLLECTION**: 1966/05/03
**TEMPERATURE (°C)**: 62.8

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**REFERENCE AND IDENTIFICATION**

Compiled By: Lawson, William
Compiler Affiliation: U.S. Geological Survey

**RECORD 00405**
**GEOCHEMICAL FILE 101 0017370**
REFERENCE FUNDORF, 1970

GEOHEMT FILE

NAME OF SAMPLE SOURCE... JOSEPH HOT SPRINGS

LOCATION

COUNTRY............. UNITED STATES
STATE................ UTAH
COUNTY............... SEIVER
GEOLOGIC PROVINCE... MONROE 1162500

SAMPLE-DESCRIPTION AND CONDITIONS

TEMPERATURE (C).... 63.0
DISCHARGE........... L/100, L/MIN

OTHER SAMPLE INFORMATION... NUMEROUS SMALL SPRINGS AND SEEPS.

WATER ANALYSIS

PH.................... 6.51
ALKALINITY........... 408, as CaCO3
TOTAL DISSOLVED SOLIDS... 5230.

ANALYSIS IN MU/L

Na........... L 0.002
Ca........... 1.9
Mg........... 44.
K........... 58.
CI........... 1.9
SO4........... 1.9
CL........... 1.9
AL........... 1.9
Fe........... 1.9
Mn........... 1.9
Ni........... 1.9
Cu........... 1.9
Zn........... 1.9
WATER ANALYSIS

ANALYSIS IN VOLUME %

CH4........... 0.1
C2H6........... 26
CO2........... 73
H2O........... 0.2

OTHER ANALYTICAL DATA... MOST OF THE SMALL SPRINGS RELEASE CONSIDERABLE GAS.

QUALIFICATION FIELD... CO = CO2 + AR.

GEOHEMT FILE

NAME OF SAMPLE SOURCE... MECHAM, EDNA
WELL/SPRING NUMBER... (Q-25a 41)3CWC-1

LOCATION

COUNTRY............. UNITED STATES
STATE................ UTAH
COUNTY............... SEIVER
GEOLOGIC PROVINCE... MONROE 1162500

SAMPLE-DESCRIPTION AND CONDITIONS

TEMPERATURE (C).... 38-37.26
DISCHARGE........... L/100, L/MIN

OTHER SAMPLE INFORMATION... NUMEROUS SMALL SPRINGS AND SEEPS.

WATER ANALYSIS

PH.................... 6.51
ALKALINITY........... 408, as CaCO3
TOTAL DISSOLVED SOLIDS... 5230.

ANALYSIS IN MU/L

Na........... L 0.002
Ca........... 1.9
Mg........... 44.
K........... 58.
CI........... 1.9
SO4........... 1.9
CL........... 1.9
AL........... 1.9
Fe........... 1.9
Mn........... 1.9
Ni........... 1.9
Cu........... 1.9
Zn........... 1.9
WATER ANALYSIS

ANALYSIS IN VOLUME %

CH4........... 0.1
C2H6........... 26
CO2........... 73
H2O........... 0.2

OTHER ANALYTICAL DATA... MOST OF THE SMALL SPRINGS RELEASE CONSIDERABLE GAS.

QUALIFICATION FIELD... CO = CO2 + AR.

COMPILED BY... TESMD, VICTOR
COMPIILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE... MARINER AND OTHERS, 1977A
MAP REFERENCE: MONROE 1162500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION: 1950/07/23
TEMPERATURE (C): 20
WELL DEPTH (M): 22
DISCHARGE: E 19 L/MIN
REFERENCE AND IDENTIFICATION
COMPILERS: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: CARPENTER AND YOUNG, 1963

GEOTHERMAL SAMPLING FILE
NAME OF SAMPLE SOURCE: MONROE (COOPER) HOT SPRINGS
LOCATION: COUNTRY: UNITED STATES TOWNSHIP & RANGE: 25S 003W 10 NW OF NW
STATE: UTAH
GEOLOGIC PROVINCE: SEVIER
MAP REFERENCE: MONROE 1162500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/STORE COLLECTOR: 1965/03/17
TEMPERATURE: 42
DISCHARGE: E 22.7 L/MIN
WATER ANALYSIS
SPECIFIC CONDUCTANCE: 4000
TOTAL DISSOLVED SOLIDS: 2680
ANALYSIS IN PPM
AG: 0.004 CO3: L 0.0014 LI: 0.51
AL: 0.004 CR: L 0.0014 MO: 0.17
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R: 0.0057 FE: L 0.0014 NA: 578 SIO2: 52
RH: 0.0029 GA: L 0.0014 NB: 0.049 932
CA: 257 HC03: L 309 NO3: 0.7
A-MG: H: 0.0014 PO: 0.0014
CO: 0.0014 Mg: 0.0014
Cl: 625 H: 0.03

REFERENCE AND IDENTIFICATION
COMPILERS: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MUNDOUFF, 1970

GEOTHERMAL SAMPLING FILE
NAME OF SAMPLE SOURCE: MONROE (COUPER) HOT SPRINGS
WELL/SPRING NUMBER: (C-25-3) 11149
LOCATION: COUNTRY: UNITED STATES TOWNSHIP & RANGE: 25S 003W 10 NE OF SE SE
STATE: UTAH
COORDINATES
LAT/LONG: 38-37.98 N 112-06.42 W
UTM ZONE: +12
UMH: 4276647
COUNTY: SEVIER
GEOLOGIC PROVINCE: MONROE
MAP REFERENCE: 1162500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1957/07/23
TEMPERATURE (C): 76.0
WATER ANALYSIS
PH: 7.6
SPECIFIC CONDUCTANCE: 4100
TOTAL DISSOLVED SOLIDS: 2700
CHARGE IMBALANCE (%) DIFF: 2.8
ANALYSIS IN PPM
AO: 71.0
AL: 32.0
ASC: 0.1
B: 3.0
BE: 3.0
CA: 280
CO2: 66
CO3: 550
F: 0.30
Fe: 2.8
HCO3: 410
Mg: 33
Mn: 0.1
Na: 550
NO3: N
NO2: 54
SiO2: 54

REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, H.
COMPILER AFFILIATION: UTILITY GEOLOGICAL AND MINERAL SURVEY
REFERENCE: CARPENTER AND YOUNG, 1963

ISOPORES 10/801
LAT/LONG: 38-38.04 N 112-10.02 W
UTM ZONE: 12
NORTHING: 4276601
Easting: 390429

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: SEVIER
GEOLOGIC PROVINCE: MONROE
MAP REFERENCE: 1162500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1957/07/23
TEMPERATURE (C): 76.0
WATER ANALYSIS
PH: 7.6
SPECIFIC CONDUCTANCE: 4100
TOTAL DISSOLVED SOLIDS: 2700
CHARGE IMBALANCE (%) DIFF: 2.8
ANALYSIS IN PPM
AO: 71.0
AL: 32.0
ASC: 0.1
B: 3.0
BE: 3.0
CA: 280
CO2: 66
CO3: 550
F: 0.30
Fe: 2.8
HCO3: 410
Mg: 33
Mn: 0.1
Na: 550
NO3: N
NO2: 54
SiO2: 54

REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, H.

ISOPORES 10/801
LAT/LONG: 38-38.04 N 112-10.02 W
UTM ZONE: 12
NORTHING: 4276601
Easting: 390429
Geothermal Sample File

Name of Sample Source: Monroe (Cooper) Hot Springs

Location:
- Country: United States
- State: Utah
- County: Sevier
- UTM Zone: 112
- Northing: 4275047
- Elevation: 5000 ft
- Map Reference: Monroe 1162500
- Township Range: 25S 003W 15 NE
- Lat/Lon: 38°37'94" N 112°06'38" W
- Temperature: 96.1°F

Other Sample Information:
- Deposits or Alteration: Extensive travertine terrace partially destroyed by trenching to increase water flow.
- Charge Imbalance (% Diff): 20%
- Total Dissolved Solids: 3004 mg/l
- Alkalinity: 405 mg/l as CaCO3
- pH: 7
- Analysis in mg/l:
  - Ag: 0.64
  - Al: 38
  - As: 0.01
  - Au: 2.4
  - Ca: 300
  - Cd: 0.001
  - Cl: 650
  - CO2: 52
  - Na: 504
  - K: 59
  - Mg: 38
  - Mn: 0.11
  - NH4: 0.2
  - Ni: 0.92
  - Pb: 0.02
  - S: 50
  - SiO2: 127.3
  - SO4: 16.68

Isolopes (D/D0):
- D0 of Water: -127.3
- D0 of H2O: -16.68

Qualification Field: pH approximate due to meter instability.

Reference and Identification:
- Reference: Carpenter and Young, 1963
- Geothermal File: 101
- Recumb: 00411

Geothermal Sample File

Name of Sample Source: Monroe (Cooper) Hot Springs

Location:
- Country: United States
- State: Utah
- County: Sevier
- UTM Zone: 112
- Northing: 4275047
- Temperature: 96.1°F

Sample Description and Conditions:
- Date/Collector: 1967/05/03
- Map Reference: Monroe 1162500
- Other Locality Information: Location approximate
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### REFERENCES AND IDENTIFICATION

Compiled by: Goode, H.
Compiler Affiliation: Utah Geological and Mineral Survey
Reference: Mundonff, 1970

---

**SOURCE FILE NAME:** MONROE (COOPER) HOT SPRINGS
**LOCATION:** UNITED STATES 25S 003W 15 ME
**DEPOTTERS OR ALTERATION:** SPRINGS AND SEEPS ISSUING FROM A TRAVERTINE TERRACE WHICH WAS LARGELY DESTROYED BY EXHIBIT TRENCHING TO INCREASE THE WATER FLOW.

### WATER ANALYSIS

<table>
<thead>
<tr>
<th>Parameter</th>
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**ANALYSIS IN MIL/OF WATER:**

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**ISOTOPES (10/08):**

- **DEL D OF WATER:** -128.3
- **DEL O(18) OF WATER:** -16.95
**Geochemical Sample File**

**Name of Sample Source:** Red Hill Hot Spring

**Location:** United States 25S 003 W 11 Sw

**State:** Utah

**County:** Sevier

**Map Reference:** Monroe 1102500

**Other Locality Information:** Approximately 0.8 km north of Monroe Hot Springs.

**Sample Description and Conditions:**
- Temperature (°C): 76.5
- Deposits or Alteration: Travertine terrace
- Other Sample Information: Springs issue from a range-front fault

**Water Analysis:**
- **pH:** 6.25
- **Alkalinity:** 416
- **Total Dissolved Solids:** 3019

**Analysis in mg/l:**
- **AG:** 0.005
- **CO3:** 0.72
- **Li:** 58
- **Ca:** 0.96
- **Mg:** 44
- **K:** 60
- **Na:** 590
- **Sr:** 5102
- **CaCO3:** 416
- **CaHCO3:** 0.0002
- **PO4:** 0.26
- **Zn:** 0.03

**Isotopes (18/16):**
- **DOL** of Water: -127.3
- **DOL (18) of Water:** -16.95

**Reference and Identification:**
- **Compiled By:** Teshin, Victor
- **Compiler Affiliation:** U.S. Geological Survey
- **Reference:** Makiner and Others, 1977A

---

**Geochemical Sample File**

**Name of Sample Source:** Red Hill Hot Spring

**Location:** United States 25S 003 W 11 NE of Sw

**State:** Utah

**County:** Sevier

**Geologic Province:**
**MAP REFERENCE**: MONROE 1162500

**SAMPLE DESCRIPTION AND CONDITIONS**

- **DATE/COLLECTOR**: 1967/09/11
- **TEMPERATURE (°C)**: 76.1
- **DISCHARGE**: E 567.8 L/MIN
- **DEPOSITS OR ALTERATION**: TUF A MOUND 600' LONG; 200-300' WIDE; 50' HIGH
- **PERMIAN LITHOLOGY**: SPRING ISSUES FROM SEVIER FAULT

**WATER ANALYSIS**

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<thead>
<tr>
<th>Parameter</th>
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**ANALYSIS IN PPM**

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**ISOPODS (10/00)**

**QUALIFICATION FIELD**: CARPENTER AND YOUNG (1963) REPORTED TEMP. OF 76.1°C

**REFERENCE AND IDENTIFICATION**

- **COMPILED BY**: GOODE, H.
- **COMPILER AFFILIATION**: UTAH GEOLOGICAL AND MINERAL SURVEY
- **REFERENCE**: MUNDORFF, 1970

**GEOThERM SAMPLE FILE**

- **NAME OF SAMPLE SOURCE**: RED HILL HOT SPRINGS
- **WELL/SPRING NUMBER**: (C=25-3) 1162500
- **LOCATION**
  - **COUNTRY**: UNITED STATES
  - **STATE**: UTAH
  - **COUNTY**: SEVIPER
  - **GEOLOGIC PROVINCE**: MONROE 1162500
- **SAMPLE DESCRIPTION AND CONDITIONS**
  - **DATE/COLLECTOR**: 1967/09/11
  - **DISCHARGE**: E 567.8 L/MIN

**WATER ANALYSIS**

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**ANALYSIS IN PPM**

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**ISOPODS (10/00)**
NAME OF SAMPLE SOURCE: RICHLFIELD WARM SPRINGS

LOCATION:
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: SEVIER
GEOLOGIC PROVINCE: Jo
MAP REFERENCE: RICHLIELD 1162500
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS:
DATE/COLLECTOR: 1964/09/07
TEMPERATURE (°F): 82
DISCHARGE: E 2650, L/MIN
Pertinent lithology: Springs issue at a fault contact between alluvium and tertiary sandstones in the Elsinore fault zone.
OTHER SAMPLE INFORMATION: Springs main source of municipal water supply for RICHLFIELD.

MARKETING ANALYSIS:
PH: 8.3
SPECIFIC CONDUCTANCE: 551
TOTAL DISSOLVED SOLIDS: 307
CHARGE IMBALANCE (% DIFF): 4.2

ANALYSIS IN PPM
AG+... 2.0
CA++... 1.0
Mg++... 0.9
Cl--... 2.0
HCO3... 51
F---... 0.3
NOS... 0.04
HA++... 0.2
H++... 0.1
K+++... 3.2

REFERENCE AND IDENTIFICATION:
COMPILER BY: MURPHY, P
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HUNDOHFF, 1970

NAME OF SAMPLE SOURCE: RICHLFIELD WARM SPRINGS
WELL/Spring number: (C-23) 31264CA
LOCATION:
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: SEVIER
GEOLOGIC PROVINCE: Jo
MAP REFERENCE: RICHLIELD 1162500
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
SAMPLING AND CONDITIONS
DATE/COLLECTION 1957/07/30
DISCHARGE 5.29 L/MIN
OTHER SAMPLE INFORMATION NEAR FAULT ZONE.
WATER ANALYSIS
P= 7.9
SPECIFIC CONDUCTANCE 548
TOTAL DISSOLVED SOLIDS 310
CHARGE IMBALANCE (‰ DIFF) 0.6
ANALYSIS IN PPM
AO  0.5
AL  38
AS  0.01
H  12
Na  27
FE  0.04
NO3  0.6
Mg  298
SO4  14
Li  0.5
Ca  45
K  4
CO3  20
ISOPIES (‰)

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: CARPENTER AND YOUNG, 1963

GEOHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE TOWN OF REAMOND
WELL/SPRING NUMBER C-21 1111ADA-1
LOCATION
COUNTRY UNITED STATES
STATE UTAH
COUNTY SEVIEN
GEOLOGIC PROVINCE 36
MAP REFERENCE SALINAX 1124000
OTHER LOCALITY INFORMATION LOCATION APPROXIMATE
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR 1957/07/27
TEMPERATURE (°C) 21.1
WELL DEPTH (M) 12.5
DISCHARGE 45.4 L/MIN
WATER ANALYSIS
P= 8
SPECIFIC CONDUCTANCE 1940
TOTAL DISSOLVED SOLIDS 599
CHARGE IMBALANCE (‰ DIFF) 0.6
ANALYSIS IN PPM
AO  0.5
AL  19
AS  N
H  144
Na  47
Ca  0.03
NO3  0.7
Mg  158
Cl  18
K  0.5
ISOPIES (‰)

REFERENCE AND IDENTIFICATION
**Geothermal Sample File**

**Name of Sample Source:** ASARCO  
**Location:** UNITED STATES, UTAH  
**County:** TOOELE  
**Geologic Province:**  
**Sample Description and Conditions:**  
**Date/Collector:** 1955/06/17  
**Temperature (C):** 29.5  
**Well Depth (m):** 193  
**Discharge:** 1135.6  
**Water Analysis:**  
**pH:** 6.9  
**Specific Conductance:** 11600  
**Total Dissolved Solids:** 10900  
**Charge Imbalance (% Diff.):** 0.4  
**Analyzed in mg/l:**  
- Ca: 321  
- Mg: 103  
- Na: 3670  
- K: 89  
- SO4: 194  
- NO3: 8.7  
- Total: 10900  

**Geothermal File ID:** 0017498

---

**Geothermal Sample File**

**Name of Sample Source:** UNNAMED SPRING  
**Location:** UNITED STATES, UTAH  
**County:** SUMMIT  
**Geologic Province:** 37  
**Sample Description and Conditions:**  
**Date/Collector:** 1965/06/08  
**Temperature (C):** 21.0  
**Discharge:** 189 L/min  
**Reference and Identification:**  
**Compiled By:** GOODE, H.  
**Compiler Affiliation:** UTAH GEOLOGICAL AND MINERAL SURVEY  
**Reference:** CARPENTER AND YOUNG, 1963

**Geothermal File ID:** 0017159

---

**Geothermal Sample File**

**Name of Sample Source:** ASARCO  
**Location:** UNITED STATES, UTAH  
**County:** TOOELE  
**Geologic Province:**  
**Sample Description and Conditions:**  
**Date/Collector:** 1955/06/17  
**Temperature (C):** 29.5  
**Well Depth (m):** 193  
**Discharge:** 1135.6  
**Water Analysis:**  
**pH:** 6.9  
**Specific Conductance:** 11600  
**Total Dissolved Solids:** 10900  
**Charge Imbalance (% Diff.):** 0.4  
**Analyzed in mg/l:**  
- Ca: 321  
- Mg: 103  
- Na: 3670  
- K: 89  
- SO4: 194  
- NO3: 8.7  
- Total: 10900  

**Geothermal File ID:** 0017498

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**Geothermal Sample File**

**Name of Sample Source:** UNNAMED SPRING  
**Location:** UNITED STATES, UTAH  
**County:** SUMMIT  
**Geologic Province:** 37  
**Sample Description and Conditions:**  
**Date/Collector:** 1965/06/08  
**Temperature (C):** 21.0  
**Discharge:** 189 L/min  
**Reference and Identification:**  
**Compiled By:** GOODE, H.  
**Compiler Affiliation:** UTAH GEOLOGICAL AND MINERAL SURVEY  
**Reference:** CARPENTER AND YOUNG, 1963

**Geothermal File ID:** 0017159

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### Geothermal Sample File

**Location**
- **Country**: United States
- **State**: Utah
- **County**: Tooele

**Geologic Province**: 35

**Sample Description and Conditions**
- **Date/Collector**: 1965/12/29
- **Temperature (°C)**: 23.9
- **Water Temperature (°C)**: 1.9
- **Well Depth (m)**: 151

**Water Analysis**
- **pH**: 7.3
- **Specific Conductance**: 5140
- **Total Dissolved Solids**: 3070
- **Charge Imbalance (% diff)**: 2.2

**Analysis in ppm**
- **Mg**: 106
- **Na**: 3490
- **Cl**: 319
- **Ca**: 203
- **K**: 89

**Isotopes (10/001)**

---

### Geothermal Sample File

**Location**
- **Country**: United States
- **State**: Utah
- **County**: Tooele

**Geologic Province**: JS

**Sample Description and Conditions**
- **Date/Collector**: 1965/12/29
- **Temperature (°C)**: 23.9
- **Well Depth (m)**: 151

**Water Analysis**
- **pH**: 7.3
- **Specific Conductance**: 5140
- **Total Dissolved Solids**: 3070
- **Charge Imbalance (% diff)**: 2.2

**Analysis in ppm**
- **Mg**: 106
- **Na**: 3490
- **Cl**: 319
- **Ca**: 203
- **K**: 89

**Isotopes (10/001)**
**GEOThERM SAMPLE FILE**

**NAME OF SAMPLE SOURCE**: Big Warm Springs

**LOCATION**
- **COUNTRY**: United States
- **STATE**: Utah
- **COUNTY**: Tooele
- **GEOLOGIC PROVINCE**:  

**SAMPLE DESCRIPTION AND CONDITIONS**
- **DATE/COLLECTOR**: 1981/01/10
- **DISCHARGE**: 10977

**WATER ANALYSIS**
- **pH**: 7.7
- **SPECIFIC CONDUCTANCE**: 13800 µS/cm
- **TOTAL DISSOLVED SOLIDS**: 8250 mg/L
- **CHARGE IMBALANCE (% DIFF)**: 0.0

**ANALYSIS IN mg/L**

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<th>AL</th>
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**REFERENCE AND IDENTIFICATION**

**COMPILER**: Murphy, P.
- **AFFILIATION**: Utah Geological and Mineral Survey
- **REFERENCE**: MUNDORFF, 1970

---

**GEOThERM SAMPLE FILE**

**NAME OF SAMPLE SOURCE**: Big Warm Springs

**LOCATION**
- **COUNTRY**: United States
- **STATE**: Utah
- **COUNTY**: Tooele
- **GEOLOGIC PROVINCE**:  

**SAMPLE DESCRIPTION AND CONDITIONS**
- **DATE/COLLECTOR**: 1980/01/05
- **DISCHARGE**: 10414

**WATER ANALYSIS**
- **pH**: 7.6
- **SPECIFIC CONDUCTANCE**: 13700 µS/cm
- **TOTAL DISSOLVED SOLIDS**: 8160 mg/L

**COORDINATES**
- **LAT/LONG**: 40.4470 N 112.3990 W
- **UTM ZONE**: 12
- **NORTHING**: 4511572

**ISOPTES (10/00)**: 100
CHANGE IMBALANCE (% DIFF)... 0.4

ANALYSIS IN mg/L

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REFERENCE AND IDENTIFICATION

MANUSCRIPT Prepared by: MURPHY, P.
COMPLIANT AFFILATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MUNDONFF, 1970

---

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE... BIG WARM SPRINGS

LOCATION

COUNTRY........ UNITED STATES
STATE............ UTAH
COUNTY........... TOOELE

LOGIC.Properties

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTION... 1969/10/11

WATER ANALYSIS

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REFERENCE AND IDENTIFICATION

MANUSCRIPT Prepared by: MURPHY, P.
COMPLIANT AFFILATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MUNDONFF, 1970

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GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE... BIG WARM SPRINGS

LOCATION

COUNTRY........ UNITED STATES
STATE............ UTAH
COUNTY........... TOOELE

LOGIC.Properties

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTION... 1969/10/11

WATER ANALYSIS

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<td>Ca</td>
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### Geothermal Sample File
**Name of Sample Source:** Big Warm Springs
**Location:**
- **Country:** United States
- **State:** Utah
- **County:** Tooele
- **Geologic Province:**

**Sample Description and Conditions:**
- **Date/Collector:** 1960/04/12
- **Discharge:** 7949

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<td><strong>Water Analysis</strong></td>
<td></td>
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<td>7.7</td>
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<td><strong>Specific Conductance</strong></td>
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<td><strong>Total Dissolved Solids</strong></td>
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**Referene and Identification**
- **Compiled by:** Murphy, P.
- **Compiler Affiliation:** Utah Geological and Mineral Survey
- **Reference:** Mundunff, 1970

---

**Isotopes (10/40):**

---

### Geothermal Sample File
**Name of Sample Source:** Big Warm Springs
**Location:**
- **Country:** United States
- **State:** Utah
- **County:** Tooele
- **Geologic Province:**

**Sample Description and Conditions:**
- **Date/Collector:** 1960/04/12
- **Discharge:** 7949

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**Referene and Identification**
- **Compiled by:** Murphy, P.
- **Compiler Affiliation:** Utah Geological and Mineral Survey
- **Reference:** Mundunff, 1970

---

**Isotopes (10/40):**

---
SAMPLE DESCRIPTION AND CONDITIONS
DATE/RECEIVED: 1949/09/28
DISCHARGE: 1367.8
WATER ANALYSIS
PH: 8.1
SPECIFIC CONDUCTANCE: 14000 µS/m
TOTAL DISSOLVED SOLIDS: 8100 mg/L
ANALYSIS IN MG/L
AG...  CO3... 22
AL...  CH... 1.4
CA...  F...  61
FE...  FETOT... 2890
Mg...  SIO2... 97
Na...  7.9
Na+K... 504
NO3... 352
ISOPIOPS (O/00)
REFERENCE AND IDENTIFICATION
COMPILERS: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCES: MUNDOFF, 1970

GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE: BLUE LAKE SPRING
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: TOUZELE
GEOLOGIC PROVINCE: 35
MAP REFERENCE: 9924000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/RECEIVED: 1967/09/16
TEMPERATURE (°C): 29
WATER ANALYSIS
ANALYSIS IN MG/L
AG...  CO3... 1.4
AL...  CH... 50
CA...  F... 1400
FE...  FETOT... 504
Mg...  200
Na...  100
ISOPIOPS (O/00)
REFERENCE AND IDENTIFICATION
COMPILERS: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCES: TURK, 1973

GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE: RONNEVILLE LID ONW NO. 13
WELL/Spring NUMBER: 1C-1-1912300-1
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: TOUZELE
REFERENCE AND IDENTIFICATION
COMPILERS: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCES: TURK, 1973
**GEOLOGIC PROVINCE:**
- **MAP REFERENCE:** SILVERSE 1124000

**SAMPLE DESCRIPTIVE AND CONDITIONS**
- **DATE/COLLECTION:** 1967/09/13
- **TEMPERATURE (C):** 24.5
- **WELL DEPTH (M):** 4580

**WATER ANALYSIS**

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**REFERENCE AND IDENTIFICATION**
- **COMPILED BY:** HURST, P.
- **COMPILER AFFILIATION:** UTAH GEOLOGICAL AND MINERAL SURVEY
- **REFERENCE:** STEPHENS, 1974a

**GEOTERM SAMPLE FILE**
- **NAME OF SAMPLE SOURCE:** RONINNEVLE LTD. #13
- **WELL SPRING NUMBER:** C-1-1912400-1
- **LOCATION:**
  - **COUNTRY:** UNITED STATES
  - **STATE:** UTAH
  - **COUNTY:** TOOELE
  - **GEOLOGIC PROVINCE:** 35
  - **MAP REFERENCE:** TEHALL PEAK 112400
- **SAMPLE DESCRIPTIVE AND CONDITIONS**
  - **DATE/COLLECTION:** 1972/03/29
  - **WELL DEPTH (M):** 49
  - **MAYBE ANALYSIS**
    - **SFC:** 10200
  - **TOTAL DISSOLVED SOLIDS:** 5700
  - **CHARGE IMBALANCE (H DIFF):** 4.3

**ANALYSIS IN MG/L**

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**REFERENCE AND IDENTIFICATION**
- **COMPILED BY:** HURST, P.
- **COMPILER AFFILIATION:** UTAH GEOLOGICAL AND MINERAL SURVEY
- **REFERENCE:** STEPHENS, 1974a
GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... RONNEVILLE LTD. NO. 5
WELL/SPRING NUMBER..... (C-1-191)URAC-1

LOCATION
COUNTRY.............. UNITED STATES
STATE................. UTAH
COUNTY.............. TOOELE
GEOLOGIC PROVINCE... 35
MAP REFERENCE...... TETZLAFF PEAK 1124000

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR....... 1967/09/08
TEMPERATURE (C)....... 68
WELL DEPTH (M)........ 66
DISCHARGE............ 1893. L/Min

WATER ANALYSIS
AG........ CO3........ Li........ 1.2
AL........ CH........... MG........ 80

REFERENCE AND IDENTIFICATION
COMPILER.............. HUDDLESTON, P.
COMPILER AFFILIATION.. UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............ STEPHENS, 1974A

ISOTOPES (O/00)

ISOTOPES (D/00)

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE... RONNEVILLE LTD. NO. 5
WELL/SPRING NUMBER..... (C-1-191)URAC-1

LOCATION
COUNTRY.............. UNITED STATES
STATE................. UTAH
COUNTY.............. TOOELE
GEOLOGIC PROVINCE... 35
MAP REFERENCE...... TETZLAFF PEAK 1124000

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR....... 1967/09/08
TEMPERATURE (C)....... 68
WELL DEPTH (M)........ 66
DISCHARGE............ 1893. L/Min

WATER ANALYSIS
AG........ CO3........ Li........ 1.2
AL........ CH........... MG........ 80

REFERENCE AND IDENTIFICATION
COMPILER.............. HUDDLESTON, P.
COMPILER AFFILIATION.. UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............ STEPHENS, 1974A

ISOTOPES (O/00)

ISOTOPES (D/00)
### Geothermal Sample File

**Name of Sample Source:** Ronneville Ltd., SW No. 8  
**Well/Spring Number:** C-1-1974-1980-1

**Location:**  
- **Country:** United States  
- **State:** Utah  
- **County:** Tooele  
- **Geologic Province:** Tooele

**Sample Description and Conditions:**  
- **Date/Collector:** 1974/09/13  
- **Temperature:** 20°C  
- **Well Depth:** 319 ft  
- **Other Sample Information:** Chem probably applies to (C-2-197) 38604, Turnpike 70-1045-70-1045

**Water Analysis:**  
- **Analysis in mg/L:**  
  - **Ca:** 1760  
  - **Cl:** 1680  
  - **CO₃:** 18  
  - **Li:** 1540  
  - **Fe:** 54000  
- **CO₂:** 1856  

**Reference and Identification:**  
- **Compiler:** Murphy, P.  
- **Affiliation:** Utah Geological and Mineral Survey  
- **Reference:** Stephens, 1974A

---

### Geothermal Sample File

**Name of Sample Source:** Bureau of Land Management (Kaiser FM20)  
**Well/Spring Number:** (9-1-1881)  

**Location:**  
- **Country:** United States  
- **State:** Utah  
- **County:** Tooele  
- **Geologic Province:**  
- **Map Reference:**  
  - **Sample Description and Conditions:**  
    - **Date/Collector:** 1947/12/16  
    - **Temperature:** 20°C  
    - **Well Depth:** 94 ft  
    - **Discharge:** 500 L/min

**Coordinates:**  
- **Latitude/Longitude:** 40.472 113.56.67  
- **UTM Zone:** 12  
- **Northing:** 4518901  
- **Easting:** 251583
OTHER SAMPLE INFORMATION: WATER AT LAND SURFACE; 3/29/72.
REFERENCE AND IDENTIFICATION
COMPILER: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: LINES; 1978

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE: BUREAU OF LAND MANAGEMENT (KAISER K65)
WELL/SPRING NUMBER: C-2-1714-1AC-1
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: TOOELE
GEOLOGIC PROVINCE:
MAP REFERENCE: SAUHUO 1124000
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1976/09/28
TEMPERATURE (°C): 21
WELL DEPTH (M): 5.8
DISCHARGE: 12. L/MIN

MAP SHAPE ANALYSIS
TOTAL DISSOLVED SOLIDS... 196600
CHARGE IMBALANCE (%) DIFF... 1.8

ANALYSIS IN mg/L
AG... CO3... Li... 16
AL... CH... Mg... 980
B... F... Na... 70000
HE... HET (TOT)... NB... 504 300
CA... 1200 HCO3... 37
CL... 110000

REFERENCE AND IDENTIFICATION
COMPILER: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: LINES; 1978

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE: CASSITY, E.
WELL/SPRING NUMBER: C-2-513B-C-1
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: TOOELE
GEOLOGIC PROVINCE: JS
MAP REFERENCE: MILLS JUNCTION 1124000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1967/05/05
TEMPERATURE (°C): 22.8
WELL DEPTH (M): 1979
OTHER SAMPLE INFORMATION: OIL TEST

REFERENCE AND IDENTIFICATION
COMPILER: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: LINES; 1978
**Sample Description and Conditions**

- **Date/Collector**: 1963/07/23
- **Temperature (C)**: 23.9
- **Discharge**: 38.0 L/min

**Water Analysis**

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<th>Parameter</th>
<th>Unit</th>
<th>Value</th>
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**Isotopes (D/Rat)**

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**Reference and Identification**

- **Date/Collector**: 1963/07/23
- **Temperature (C)**: 23.9
- **Discharge**: 38.0 L/min

**Water Analysis**

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<tr>
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**Reference and Identification**
GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE: DESERET LIVESTOCK SOUTH
WELL/SPRING NUMBER: (C= 3- 8) 1500-10

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: TOOELE
GEOLOGIC PROVINCE: 35C
MAP REFERENCE: TIMPE 1162500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1967/07/30
TEMPERATURE (C): 21.7
DISCHARGE: 7814. L/MIN

ANALYSIS

PH: 7.3
SPECIFIC CONDUCTANCE: 9520.0
TOTAL DISSOLVED SOLIDS: 5900.
CHARGE IMBALANCE (% DIFF): 1.3

ANALYSIS IN PPM

AG: 0.02
AL: 0.01
CA: 0.01
CO3: 0.01

Mg: 61.0
Na: 17.0
K: 66.0
Fe: 0.01
Fetot: 0.01
N: 0.01

Isotopes (O/A01)

QUALIFICATION FIELD: DISCHARGE IS FROM 5 SPRINGS AT NORTH END OF SPRING AREA.

EXPLANATION AND IDENTIFICATION

COMPILED BY: GUODE, H.
COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HOOD AND WADDELL, 1968
WATER ANALYSIS
PH: 1.2
SPECIFIC CONDUCTANCE: 9500
TOTAL DISSOLVED SOLIDS: 5770
CHARGE IMBALANCE (% DIFF): 2.2

ANALYSIS IN PPM
AG: 0.44
AL: 0.44
AS: 0.44
Ba: 0.44
Ca: 0.44
Cd: 0.44
Cl: 0.44
Co: 0.44
Cr: 0.44
Cu: 0.44
Fe: 0.44
H: 0.44
Mg: 0.44
Mn: 0.44
Na: 0.44
Ni: 0.44
Pb: 0.44
P: 0.44
S: 0.44
SiO2: 0.44
Sr: 0.44
Ti: 0.44
V: 0.44
Zn: 0.44

REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HOOD AND WADDELL, 1968

ISOTOPES (1/2/01)

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: GRANTSVILLE WARM SPRINGS
LOCATION: COUNTRY: UNITED STATES, TOWNSHIP: 02S, RANGE: 006W, 16, NE OF NE.
STATE: UTAH, COUNTY: TOOELE, GEOLOGIC PROVINCE: JS,
MAP REFERENCE: TIMPIL 1162500, OTHER LOCALITY INFORMATION: 3 MILES NW OF GRANTSVILLE
SAMPLE DESCRIPTION AND CONDITIONS: DATE/FOCTOR: 1966/03/15,
TEMPERATURE (°C): 26.4, DISCHARGE: E 1514, L/MIN,
PERTINENT LITHOLOGY: SPINGS ISSUE FROM QUATERNARY LAKEBED SEDIMENTS ON MUOFLATS OF GREAT SALT LAKE.

MAIF ANALYSIS
PH: 7.5
SPECIFIC CONDUCTANCE: 48400,
TOTAL DISSOLVED SOLIDS: 25800,
CHARGE IMBALANCE (% DIFF): 0.6

ANALYSIS IN PPM
AL: 0.037
AS: 0.037
Ba: 0.037
Ca: 0.037
Cd: 0.037
Cl: 0.037
Co: 0.037
Cr: 0.037
Cu: 0.037
Fe: 0.037
H: 0.037
Mg: 0.037
Mn: 0.037
Na: 0.037
Ni: 0.037
Pb: 0.037
P: 0.037
S: 0.037
SiO2: 0.037
Sr: 0.037
Ti: 0.037
V: 0.037
Zn: 0.037

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY

GEOTHERM FILE VOL 001 00017649

RECORD 00649

PAGE 0229
REFERENCE: MUNDOHFF, 1970

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: TOOELE
GEOLOGIC PROVINCE: 35
MAP REFERENCE: DELLE 1124000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1949/11/10
TEMPERATURE (C): 26.0
WELL DEPTH (M): 20.
DISCHARGE: 39. L/MIN

OTHER SAMPLE INFORMATION: WATER REPORTED SALINE

REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, H.
COMPILERS AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HODD AND WADDELL, 1968

REFERENCE: MUNDOHFF, 1970

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: TOOELE
GEOLOGIC PROVINCE: 35
MAP REFERENCE: DELLE 1124000

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1976/11/12
TEMPERATURE (C): 26.
WELL DEPTH (M): 326.

REFERENCE: MUNDOHFF, 1970

ANALYSIS
TOTAL DISSOLVED SOLIDS: 130000.
ANALYSIS IN MG/L
AG: CO3: CH: Mg: Na:
H: F: Fe(T): NH:
Ca: HC03: Cl: CO:

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILERS AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: LINES, 1978
### Geothermal Sample File

**Name of Sample Source:** KAISEN DBW 9  
**Well/Spring Number:** C-1913598CD-1

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<td><strong>County:</strong> Tooele</td>
<td><strong>Northing:</strong> 4509393.00</td>
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<td><strong>Geologic Province:</strong></td>
<td><strong>Easting:</strong> 2406955.00</td>
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**Sample Description and Conditions:**
- **Date/Collector:** 1951/01/14  
- **Temperature (°C):** 36.0  
- **Well Depth (ft):** 432.0  
- **Discharge:** 0.4542 ft³/min  
- **Qualification Field:** Pumped

**Reference and Identification:**
- **Compiled By:** Murphy, P.  
- **Compiler Affiliation:** Utah Geological and Mineral Survey  
- **Reference:** Lines; 1978

---

### Geothermal Sample File

**Name of Sample Source:** KAISEN FWT4  
**Well/Spring Number:** C-1913598CD-1

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<td><strong>State:</strong> Utah</td>
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**Sample Description and Conditions:**
- **Date/Collector:** 1969/05/16  
- **Temperature (°C):** 24  
- **Well Depth (ft):** 52  
- **Discharge:** 3765 ft³/min  
- **Reference and Identification:**
  - **Compiled By:** Murphy, P.  
  - **Compiler Affiliation:** Utah Geological and Mineral Survey  
  - **Reference:** Lines; 1978

---

### Geothermal Sample File

**Name of Sample Source:** KAISEN WELL DBW 1  
**Well/Spring Number:** C-1913598CD-1

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**Sample Description and Conditions:**
### Sample Description and Conditions

**Date/Collector:** 1961/09/26  
**Temperature (C):** 22.7  
**Well Depth (ft):** 99.5  
**Discharge:** 757 L/min

### FAQA Analysis

**P:** 7.6  
**Specific Conductance:** 5600  
**Analysis in Ppm**  
- **Ag:** 0.0  
- **Ca:**  208  
- **Cl:** 1708  

### Reference and Identification

**Compiled by:** Noodle, H.  
**Compiler Affiliation:** Utah Geological and Mineral Survey  
**Reference:** Gates, 1963

---

### Geotherm Sample File

**Name of Sample Source:** Morgan's Warm Spring  
**Well/Spring Number:** (G=5)9CBA-51  
**Location**  
- **Country:** United States  
- **State:** Utah  
- **County:** Tooele  
- **Geologic Province:**  
- **Mapp Reference:** 1162500

**Sample Description and Conditions**  
**Date/Collector:** 1964/09/22  
**Temperature (C):** 74  
**Discharge:** 3755 L/min

### FAQA Analysis

**P:** 8  
**Specific Conductance:** 981  
**Total Dissolved Solids:** 594  
**Charge Imbalance (% Diff):** 1.1  
**Analysis in Ppm**  
- **Ag:** 0.0  
- **Ca:** 58  
- **Cl:** 179  
- **CO3:** 11

**Reference and Identification**  
**Compiled by:** Murphy, P.  
**Compiler Affiliation:** Utah Geological and Mineral Survey  
**Reference:** Nodd and Others, 1969

---

**Record 00457**  
**Geotherm File 101 0017642**

---

**Record 00458**  
**Geotherm File 101 0017643**
**Distribution:**

**Location:**
- **Country:** United States
- **State:** Utah
- **County:** Tooele
- **Geologic Province:** 35
- **Map Reference:** Stockton 1162500

**Sample Description and Conditions:**
- **Date/Collection:** 1967/07/18
- **Temperature (°C):** 26.7
- **Discharge:** 2839 L/Min
- **Pertinent Lithology:** Spring issues from Quaternary valley fill at the base of an outcrop of Late Paleozoic rocks.

**Water Analysis:**

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**Isotopes (10/2001):**

**Reference and Identification:**
- **Compiler:** Murphy, P.
- **Compiler Affiliation:** Utah Geological and Mineral Survey
- **Reference:** Mundonff, 1970

---

**Geothermal Sample File:**

- **Name of Sample Source:** Hortensen, H.
- **Well/Sping Number:** (C=2=5)34802B-1

**Location:**
- **Country:** United States
- **State:** Utah
- **County:** Tooele
- **Geologic Province:** 35
- **Map Reference:** Grantsville 1124000

**Sample Description and Conditions:**
- **Date/Collection:** 1958/08/18
- **Temperature (°C):** 21.1
- **Well Depth (m):** 144

**Water Analysis:**

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**Isotopes (10/2001):**

---

**Reference and Identification:**
- **Compiler:** Murphy, P.
- **Compiler Affiliation:** Utah Geological and Mineral Survey
- **Reference:** Mundonff, 1970

---

**Geothermal File ID:** 0017163

---

**Summary:**

- **Specific Conductance:** 7.8 g/L
- **Total Dissolved Solids:** 580 g/L
- **Charge Imbalance (% Diff):** 2.2

---

**Isotopes:**

- **Ag:**
- **Co3:**
- **Li:**
- **Na:** 112.5102.
- **K:**
- **Ca:** 48.162.
- **Mg:**
- **Na:**
- **K:**
- **Ca:** 48.162.
- **Mg:**

---

**Additional Information:**

- **Record:** 00459
- **Reference:** Mundonff, 1970

---

**Note:**

- The document includes detailed geological and hydrological data relevant to a specific location and sample, with a focus on water analysis and isotopic composition.
CA.... 74.  
MC03.... 252.  
NO3.... 2.1.  

REFERENCE AND IDENTIFICATION  
COMPILED BY: GOODE, H.  
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY  
REFERENCE: NORTH 1963  

GEOThERM SAMPLE FILE  
NAME OF SAMPLE SOURCE: REDUM  
WELL/SPRING NUMBER: (C= 2) 9178-S  
LOCATION  
COUNTY: UNITED STATES  
STATE: UTAH  
CITY/TOWN: TOOELE  
GEOLOGIC PROVINCE: JH  
MAP REFERENCE: HASTINGS PASS NE 1124000  

SAMPLE DESCRIPTION AND CONDITIONS  
DATE/COLLECTION: 1963/07/19  
TEMPERATURE (C): 21.1  
DISCHARGE: 7.6 L/MIN  
WATER ANALYSIS  
PH: 7.6  
TOTAL DISSOLVED SOLIDS: 7720. 
CHARGE IMBALANCE (% DIFF): 0.5  
ANALYSIS IN PPM  
AG.... 76.  
CaO.... COO3.... N  
Na.... 100.  
K.... 47.  
CL.... 2420.  

REFERENCE AND IDENTIFICATION  
COMPILED BY: GOODE, H.  
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY  
REFERENCE: NORTH 1963  

GEOThERM SAMPLE FILE  
NAME OF SAMPLE SOURCE: REDUM  
WELL/SPRING NUMBER: (C= 2) 9178-S  
LOCATION  
COUNTY: UNITED STATES  
STATE: UTAH  
CITY/TOWN: TOOELE  
GEOLOGIC PROVINCE: JH  
MAP REFERENCE: HASTINGS PASS NE 1124000  

SAMPLE DESCRIPTION AND CONDITIONS  
DATE/COLLECTION: 1963/07/19  
TEMPERATURE (C): 21.1  
DISCHARGE: 7.6 L/MIN  
WATER ANALYSIS  
PH: 7.6  
TOTAL DISSOLVED SOLIDS: 7720. 
CHARGE IMBALANCE (% DIFF): 0.5  
ANALYSIS IN PPM  
AG.... 76.  
CaO.... COO3.... N  
Na.... 100.  
K.... 47.  
CL.... 2420.  

REFERENCE AND IDENTIFICATION  
COMPILED BY: GOODE, H.  
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY  
REFERENCE: NORTH 1963
PH: 7.7
SPECIFIC CONDUCTANCE: 7000
TOTAL DISSOLVED SOLIDS: 19300
CHARGE IMBALANCE (% DIFF): 0.5
ANALYSIS IN PPM

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QUALIFICATION FIELD: TEMPERATURE OF 15 DEG C ON 1963/10/27.
REFERENCE AND IDENTIFICATION

COMPILER: HODDUFF, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HODDUFF, 1968

---

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE: RUSSELLS WARM SPRING

LOCATION

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<td>OTHER LOCALITY</td>
<td>Rush Valley, 12 miles SW of Tooele</td>
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SAMPLE DESCRIPTION AND CONDITIONS

| DATE/COLLECTOR | 1966/04/29 |
| TEMPERATURE (C) | 21.7 |
| DISCHARGE | 1703.3 L/MIN |

PERTINENT LITHOLOGY: Springs issue from Quaternary valley fill at base of an outcrop of late Paleozoic rocks.

MAKER: HODDUFF, H.

ANALYSIS

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<tr>
<th>Ion</th>
<th>Mg</th>
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REFERENCE AND IDENTIFICATION

COMPILER: HODDUFF, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HODDUFF, 1970

---
GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... TOOELE CITY
WELL/SPRING NUMBER...... (C-3-4)38HBC-1

LOCATION
COUNTRY.............. UNITED STATES
STATE................ UTAH
COUNTY.............. TOOELE
GEOLOGIC PROVINCE... T OOELE
MAP REFERENCE...... T OOELE 11240000

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR...... 1954/12/09
TEMPERATURE (C)....... 21.7
WELL DEPTH (M)....... 219

MAJOR ANALYSIS
pH........................ 7.0
TOTAL DISSOLVED SOLIDS... 397

ANALYSIS IN PPM
AG+.................. CO3++ , N
AL+.................. CH++ , N
AS+.................. C5++
Na+.................. 0.4  F++, 0.7
Na+.................. 172.9, SI02++ 29,
HE++.................. FETATI++, 0.11
Mg++.................. 49
Ca++.................. 123
NO3-................. 246
Cl-.................. 270

REFERENCE AND IDENTIFICATION
COMPILED BY........... GOODE, H.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............... MOOD AND WADDELL, 1968

________________________

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... TOOELE CITY
WELL/SPRING NUMBER...... (C-2-8)20DBA-51

LOCATION
COUNTRY.............. UNITED STATES
STATE................ UTAH
COUNTY.............. TOOELE
GEOLOGIC PROVINCE... T OOELE
MAP REFERENCE...... TIMPJE 1162500

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR...... 1953/07/18
TEMPERATURE (C)....... 22.7

MAJOR ANALYSIS
pH........................ 7.3
SPECIFIC CONDUCTANCE.... 8570
TOTAL DISSOLVED SOLIDS... 5120
CHANGE IMBALANCE (% DIFF).... 18

ANALYSIS IN PPM
AG+.................. CO3++, N
AL+.................. CH++, N
AS+.................. C5++
Na+.................. 0.7
Na+.................. 172.9, SI02++ 29,
HE++.................. FETATI++, 0.11
Mg++.................. 49
Ca++.................. 123
NO3-................. 246
Cl-.................. 270

REFERENCE AND IDENTIFICATION
COMPILED BY........... GOODE, H.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............... MOOD AND WADDELL, 1968

________________________

ISOTOPES (O/18)

________________________

ISOTOPES (O/18)
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**Geothermal Sample File**

**Location**
- Country: United States
- State: Utah
- County: Tooele
- Geographic Province: 35
- Map Reference: Timpanogos 1162500

**Other Locality Information**
- Location Approximate

**Sample Description and Conditions**
- Date/Collection: 1941/09/05
- Temperature (C): 23.3

**Samples Analysis**
- Specific Conductance: 6720

**Reference and Identification**
- Compiled By: Goode, H.
- Compiler Affiliation: Utah Geological and Mineral Survey
- Reference: Hood and Waddell, 1968

**Geothermal Sample File**

**Location**
- Country: United States
- State: Utah
- County: Tooele
- Geographic Province: 35
- Map Reference: Timpanogos 1162500

**Other Locality Information**
- Location Approximate

**Sample Description and Conditions**
- Date/Collection: 1963/07/10
- Temperature (C): 22.2

**Samples Analysis**
- Discharge: 95 L/min
- Specific Conductance: 5810
- Total Dissolved Solids: 3490
- Charge Imbalance (% Diff): 12
- Analysis in PPM:
  - Ca: 62
  - Mg: 504
  - Na: 87
  - K: 0.75
  - Fe: 219
  - Fe+Mg: 93

**Reference and Identification**
- Compiled By: Goode, H.
- Compiler Affiliation: Utah Geological and Mineral Survey
- Reference: Gates, 1963
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**Recom 00470**

**Geotherm File 101 0017165**

**Location**

**WELL/SPRING NUMBER** (C- 2-6) 23CHW-1

**Sample Description and Conditions**

**Date/Collection** 1962/08/22

**Water Analysis**

**PH** 7.5

**Specific Conductance** 1360 µS/cm

**Total Dissolved Solids** 774 ppm

**Charge Imbalance (% Diff.)** 1.9
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GEOTHERMAL SAMPLE FILE

COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: UINTAH
GEOLOGIC PROVINCE: JENSEN 1124000

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLECTED: 1957/07/13
TEMPERATURE (C): 56
WELL DEPTH (M): 903
CHARGE IMBALANCE (% DIFF): 0.1
ANALYSIS IN MU/L
AG: CO3. N
AL: CH: 1.8
H: F: 91
BE: F: 504
CA: HC03: 139
CL: NO3: 1.1
CO2: 73
K: 23

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HOOD AND OTHERS, 1976

---

ISOTOPES (U/UR)

LAT/LONG: 40.19.92 N 109.18.74 W
UTM ZONE: 12
NORTHING: 4465818
EASTING: 646196

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GEOLOGIC PROVINCE: 36
MAP REFERENCE: JENSEN 1124000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLECTED: 1957/06/25
TEMPERATURE (C): 43.5
WELL DEPTH (M): 808
CHARGE IMBALANCE (% DIFF): 756
OTHER SAMPLE INFORMATION: ORIGINAL OIL TEST
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AG: CO3: N
AL: CH: 1.8
H: F: 91
BE: F: 504
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CL: NO3: 1.1
CO2: 73
K: 23

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**Isotopes (2/001)**

**Geothermal Sample File**

**Location**
- Name of Sample Source: Pan Am Petroleum No. 1 Gentry
- Township-Range: 03S 022E 22 SW of NE
- Coordinates: Lat/Lon: 40°22.26 N 109°25.62 W
  - UTM Zone: 12
  - Northing: 633548

**Water Analysis**
- PH: 7.6
- Specific Conductance: 1030.0
- Total Dissolved Solids: 1380.0
- Charge Imbalance (% Diff): 2.9

**Analysis in Eq/L**
- Na: 43.2
- Cl: 171.5
- Ca: 192.6
- Mg: 270.9
- Ca: 118.0
- K: 27.0

**Reference and Identification**
- Compiled by: Murphy, P.
- Compiler Affiliation: Utah Geological and Mineral Survey
- Reference: Goode and Feltis, 1982

**Geothermal Sample File**

**Location**
- Name of Sample Source: Pan Am Petroleum ER-1
- Township-Range: 03S 022E 22 SW of NE
- Coordinates: Lat/Lon: 40°22.26 N 109°25.62 W
  - UTM Zone: 12
  - Northing: 633548

**Water Analysis**
- PH: 7.6
- Specific Conductance: 1030.0
- Total Dissolved Solids: 1380.0
- Charge Imbalance (% Diff): 2.9

**Analysis in Eq/L**
- Na: 43.2
- Cl: 171.5
- Ca: 192.6
- Mg: 270.9
- Ca: 118.0
- K: 27.0

**Reference and Identification**
- Compiled by: Murphy, P.
- Compiler Affiliation: Utah Geological and Mineral Survey
- Reference: Goode and Feltis, 1982
**Geothermal Sample File**

**Name of Sample Source**: PAN-AM PETROL ER-10  
**Location**: UNDE MRIEOGEOLOGICAL AND MINERAL SURVEY

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**Isotopes (0/01)**

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**Geothermal File**

**Name of Sample Source**: PAN-AM PETROL ER-10  
**Location**: UNDE MRIEOGEOLOGICAL AND MINERAL SURVEY

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**Water Analysis**

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**Analysis in ppm**

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**Isotopes (0/01)**

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### Geothermal Sample File

#### Name of Sample Source: Polumbus Corp. No. 1

**Well/Spring Number:** 10-5-221-124000

**Location:**
- **Country:** United States
- **County:** Utah
- **Township:** 05S 022E 24
- **Range:** SE of SE SE
- **Coordinate System:** UTM Zone 12
- **Northings:** 637192
- **Longitudes:** 40°20.72U 109°23.10W

**Sample Description and Conditions:**
- **Date/Collection:** 1977/12/07
- **Temperature (°C):** 45.0

**Water Analysis:**
- **Specific Conductance:** 2500

**Reference and Identification:**
- **Compiled By:** Goode, M.
- **Compiler Affiliation:** Utah Geological and Mineral Survey
- **Reference:** Goode, 1978

---

### Geothermal Sample File

#### Name of Sample Source: Shamrock Oil & Gas Corp

**Well/Spring Number:** 10-11-26-0CA-1

**Location:**
- **Country:** United States
- **County:** Utah
- **Township:** 115 024E 08
- **Range:** NE of NE SW

**Sample Description and Conditions:**
- **Date/Collection:** 1975/06/26
- **Temperature (°C):** 20
- **Well Depth (m):** 2002
- **Discharge:** 64 L/min

**Water Analysis:**
- **pH:** 8.9
- **Specific Conductance:** 1770
- **Alkalinity:** 575 as CaCO3
- **Total Dissolved Solids:** 1110

**Analysis in mg/L:**
- **Mg:** 0.01
- **Ca:** 40
- **Li:** 0.11
- **Na:** 5
- **K:** 2.7

**Isotopes (10/21):**
- **Fe, Fe(18)**: 0.03
- **Nd:** 204
- **Sr:** 390
- **Ba:** 150
- **Pb:** 102
- **Sr:** 110
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**OTHER ANALYTICAL DATA**

**REFERENCE AND IDENTIFICATION**

**GEOCHEMICAL SAMPLE FILE**

**NAME OF SAMPLE SOURCE**

**WELL/SPRING NUMBER**

**LOCATION**

**SAMPLE DESCRIPTION AND CONDITIONS**

**ANALYSIS IN µL/L**

**ISOPIERES**

**REFERENCE AND IDENTIFICATION**
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**ISOPTES (O/Ar)**

**OTHER ANALYTICAL DATA**

**REFERENCE AND IDENTIFICATION**

Compiled by: Murphy, P.
Compiler Affiliation: Utah Geological and Mineral Survey
Reference: Connelly and Fields, 1977

---------

**GEOHERM SAMPLE FILE**

Name of Sample Source: Shell Oil #1 State Field/Spring Number: (ID: 8-20388AA-

Location

Country: United States
State: Utah
County: Uintah
Geologic Province: Uintah
Map Reference: Oquirrh SE 1124000
Sample Description and Conditions

Date/Collector: 1966/06/21
Temperature (C): 57.5
Well Depth (M): 1711.1

Analysis

Specific Conductance: 65100.0
Analysis in mg/l
Cl**: 3100.0

Other Analytical Data: Conductance does not agree with Cl content.

Reference and Identification

Compiled by: Murphy, P.
Compiler Affiliation: Utah Geological and Mineral Survey
Reference: Connelly and Fields, 1977
### GEOTHERM FILE 101 0017557

**NAME OF SAMPLE SOURCE**: SPLIT MOUNTAIN

**WELL/SPRING NUMBER**: 10-4-2416GDD-25

**LOCATION**
- **COUNTRY**: UNITED STATES
- **STATE**: UTAH
- **COUNTY**: UINTAH
- **GEOLOGIC PROVINCE**: 36
- **MAP REFERENCE**: SPLIT MOUNTAIN 1124000

**DATE/COLLECTOR**: 1968/09/19
**TEMPERATURE (C)**: 30
**DISCHARGE**: E 10220. L/MIN

**WATER ANALYSIS**
- **SPECIFIC CONDUCTANCE**: 1670.
- **TOTAL SOLVED SOLIDS**: 942.
- **ANALYSIS IN MG/L**: CO3: 32, H: 504, CL: 1.2
- **ISOTOPES (O/18)**

**REFERENCE AND IDENTIFICATION**
- **COMPILED BY**: MURPHY, P.
- **COMPILED AFFILIATION**: UTAH GEOLOGICAL AND MINERAL SURVEY
- **REFERENCE**: HOOD AND OTHERS, 1976

---

**NAME OF SAMPLE SOURCE**: SHELL OIL #1

**WELL/SPRING NUMBER**: 0-8-20136GAA-1

**LOCATION**
- **COUNTRY**: UNITED STATES
- **STATE**: UTAH
- **COUNTY**: UINTAH
- **GEOLOGIC PROVINCE**: DURAY SE 1124000

**DATE/COLLECTOR**: 1966/06/13
**TEMPERATURE (C)**: 43.5
**WELL DEPTH (M)**: 1711

**WATER ANALYSIS**
- **SPECIFIC CONDUCTANCE**: 53700.
- **ANALYSIS IN MG/L**: CL: 11500
- **ISOTOPES (O/18)**

**REFERENCE AND IDENTIFICATION**
- **COMPILED BY**: MURPHY, P.
- **COMPILED AFFILIATION**: UTAH GEOLOGICAL AND MINERAL SURVEY
- **REFERENCE**: HOOD AND OTHERS, 1976
GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE: U.S. BUREAU OF LAND MANAGEMENT
WELL/SPRING NUMBER: (3-4-13-19) BAA-5

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: UINTAH
GEOLOGIC PROVINCE:
MAP REFERENCE:
TOWNSHIP: 135
RANGE: 019E 08
NE OF NE

COORDINATES
LAT/LONG: 39°42.42 N 109°48.52 W
UTM ZONE: 12
NORTHING: 4395799
Easting: 602272

SAMPLING DESCRIPTION AND CONDITIONS
DATE/CREATOR: 1972/06/08
TEMPERATURE (°C): 20.0
DISCHARGE: 1.1 L/MIN

WATER ANALYSIS
pH: 8.0
SPECIFIC CONDUCTANCE: 2200 µS

REFERENCE AND IDENTIFICATION
COMPILER: GOODEN, H.
COMPILED BY: GOODEN, H.
REFERENCE: UTAH GEOLOGICAL AND MINERAL SURVEY

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE: UNION IRRIGATION
WELL/SPRING NUMBER: (10-5-22) 225DDC

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: UINTAH
GEOLOGIC PROVINCE:
MAP REFERENCE:
TOWNSHIP: 05S
RANGE: 022E 25
NW OF SE NW

COORDINATES
LAT/LONG: 40°21.48 N 109°23.82 W
UTM ZONE: 12
NORTHING: 4468515
Easting: 626121

SAMPLING DESCRIPTION AND CONDITIONS
DATE/CREATOR: 1977/12/07
TEMPERATURE (°C): 20.0
DISCHARGE: 3785 L/MIN

WATER ANALYSIS
SPECIFIC CONDUCTANCE: 2900 µS

REFERENCE AND IDENTIFICATION
COMPILER: GOODEN, H.
COMPILED BY: GOODEN, H.
REFERENCE: UTAH GEOLOGICAL AND MINERAL SURVEY

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE: USBLM
WELL/SPRING NUMBER: (10-11-24) 24-1CAG-1

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: UINTAH
GEOLOGIC PROVINCE:
MAP REFERENCE:
TOWNSHIP: 41S
RANGE: 024E 07
SW OF NE SW

COORDINATES
LAT/LONG: 39°52.47 N 109°16.58 W
UTM ZONE: 12
NORTHING: 4454819
Easting: 647691

SAMPLING DESCRIPTION AND CONDITIONS
DATE/CREATOR: 1978
TEMPERATURE (°C): 20.0
DISCHARGE: 1.1 L/MIN

WATER ANALYSIS
SPECIFIC CONDUCTANCE: 2200 µS

REFERENCE AND IDENTIFICATION
COMPILER: GOODEN, H.
COMPILED BY: GOODEN, H.
REFERENCE: UTAH GEOLOGICAL AND MINERAL SURVEY
**MAP REFERENCE**
ANCHY HENCH SE 1124000

**SAMPLE DESCRIPTION AND CONDITIONS**

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<td>DISCHARGE</td>
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**WATER ANALYSIS**

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**ANALYSIS IN MG/L**

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<td>CR</td>
<td>N</td>
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<tr>
<td>M</td>
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**ISOPOIES (O/OU)**

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<tr>
<td>Mg</td>
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<td>K</td>
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<td>Mg</td>
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**OTHER ANALYTICAL DATA**

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**GEOCHEMICAL IDENTIFICATION**

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**ISOPHOES (O/OU)**

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**Water Analysis**

- **Specific Conductance**: 475 μS/cm
- **Total Dissolved Solids**: 1150 mg/L
- **pH**: 7.0
- **Alkalinity**: 172.0 mg/L as CaCO3

**Chemical Analysis**

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<td>Al</td>
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<tr>
<td>Ba</td>
<td>0.002</td>
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<td>Cl</td>
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<td>K</td>
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**Reference and Identification**

- Compiled by: Murphy, P.
- Compiler Affiliation: Utah Geological and Mineral Survey
- Reference: Conroy and Field, 1977
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**Analysis in mg/L**

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**Isotopes (0.01)**

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**Other Analytical Data**

**References and Identification**

**Geotherm Sample File**

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**Sample Description and Conditions**

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**Isotopes (0.01)**

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**Geothem File ID: 01 0017563**
CA-MG... 3200
CL... 3200
CO... 11
OTHER ANALYTICAL DATA... MANY TRACE ELEMENTS
REFERENCE AND IDENTIFICATION
COMPILED BY... MURPHY, P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE... CONROY AND FIELDS, 1977

GEOFHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... USBLM
WELL/Spring Number... (0-11-24)7CAG-1
LOCATION
COUNTRY... UNITED STATES
STATE... UTAH
COUNTY... UINTAH
GEOLOGIC PROVINCE... ANCHOR BENCH SE 1124000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/Collector... 1975/06/26
TEMPERATURE (C)... 2.5
DEEP DEPTH (M)... 1780
DISCHARGE... 140 L/MIN
WATER ANALYSIS
PH... 6.10
SPECIFIC CONDUCTANCE... 1770
ALKALlITY... TOTAL DISSOLVED SOLIDS... 1150
ANALYSIS IN MILL
AG... N
AL... N
CA... 1.9
CO... 22
OTHER ANALYTICAL DATA... MANY TRACE ELEMENTS
REFERENCE AND IDENTIFICATION
COMPILED BY... MURPHY, P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE... CONROY AND FIELDS, 1977

GEOFHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... WUSCU TEST HOLE
WELL/Spring Number... (0-9-20)360DC-1
LOCATION
COUNTRY... UNITED STATES
STATE... UTAH
COUNTY... UINTAH
TOWNSHIP-RANGE... 09S 026E 36 SW OF SE SE
COORDINATES
LAT/LONG... 39-59-1 N 109-36-42 W
UTM ZONE... 12
NORTHING... 4426923
**GEOLOGIC PROVINCE**
- Map Reference: BIG PACK MOUNTAIN NE 1124000
- Other Locality Information: Location approximate

**SAMPLE DESCRIPTION AND CONDITIONS**
- Date/Collector: 1969/07/31
- Temperature (C): 23.5
- Well Depth (M): 988

**WATER ANALYSIS**
- pH: 8.9
- Specific Conductance: 55,000
- Total Dissolved Solids: 72,700
- Charge Imbalance (% Diff.): 2.7

**ANALYSIS IN MG/L**

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<tr>
<th>Component</th>
<th>CO3</th>
<th>Mg</th>
<th>Na</th>
<th>Ca</th>
<th>HCO3</th>
<th>SiO2</th>
<th>K</th>
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**REFERENCE AND IDENTIFICATION**
- Compiled by: MURPHY, P.
- Compiler Affiliation: UTAH GEOLOGICAL AND MINERAL SURVEY
- Reference: HOOD AND OTHERS, 1976

---

**GEOTHERMAL SAMPLE FILE**
- Name of Sample Source: WOSCO TEST MILE
- Well/Spring Number: 10-9-20136DDG-1
- Location: COUNTRY = UNITED STATES
- Township-Range = 095 020E 36 SW OF SE SE
- State = UTAH
- County = UINTAH
- Map Reference: BIG PACK MOUNTAIN NE 1124000
- Other Locality Information: Location approximate

**SAMPLE DESCRIPTION AND CONDITIONS**
- Date/Collection: 1969/07/31
- Temperature (C): 23.5
- Well Depth (M): 988

**WATER ANALYSIS**
- pH: 8.9
- Specific Conductance: 55,000
- Total Dissolved Solids: 72,700
- Charge Imbalance (% Diff.): 2.7

**ANALYSIS IN MG/L**

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**REFERENCE AND IDENTIFICATION**
- Compiled by: MURPHY, P.
- Compiler Affiliation: UTAH GEOLOGICAL AND MINERAL SURVEY
- Reference: HOOD AND OTHERS, 1976
REFERENCE AND IDENTIFICATION

COMPILED BY: MURPHY, P. 
COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY 
REFERENCE: HOOD AND OTHERS, 1976

---

GEOThERM SAMPLE FILE

NAME OF SAMPLE SOURCE: ALLEN, J. H. 
WELL/Spring NUMBER: (C-8-1) 328-91-7 
LOCATION

COUNTRY: UNITED STATES 
STATE: UTAH 
COUNTY: UTAH 
GEOLOGIC PROVINCET: GOSHEN VALLEY NORTH 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/RECIPIENT: 1945/12/05 
TEMPERATURE (°C): 20.0 
WELL DEPTH (M): 89. 
DISCHARGE: 57. L/MIN

---

GEOThERM SAMPLE FILE

NAME OF SAMPLE SOURCE: BARTMULEHO, ORAL 
WELL/Spring NUMBER: (W-8-1) 328-91-7 
LOCATION

COUNTRY: UNITED STATES 
STATE: UTAH 
COUNTY: UTAH 
GEOLOGIC PROVINCET: SPANISH FORK 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/RECIPIENT: 1966/05/16 
TEMPERATURE (°C): 13. 
WELL DEPTH (M): 89. 
WATER ANALYSIS

P.O.: 8.9 
SPECIFIC CONDUCTANCE: 6685 
TOTAL DISSOLVED SOLIDS: 451 

---

AG: 0.02 
AL: 0.12 
M: 0.38 
BE: 0.42 
HCl: 0.96 
ML: 2.45 
NA: 65. 
S04: 4.0 
K: 2.0 
Cl: 79. 
HCO3: 20. 
NO3: 1.0 
PO4: 0.9

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ISOtopes (D/18O)

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**REFERENCE AND IDENTIFICATION**

Compiled by: Murphy, P.
Compiler Affiliation: UTAH GEOLOGICAL AND MINERAL SURVEY
Reference: Cordova, 1969
TOTAL DISSOLVED SOLIDS... 6644.
CHARGE IMBALANCE (IN DIFF)... 0.0

ANALYSIS IN PPM

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QUALIFICATION FIELD... TEMPERATURES RANGE FROM 23.8 TO 35.0 DEGREES C.

REFERENCE AND IDENTIFICATION

COMPILED BY... GOODE, H.
COMPILED AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE... KUHNTZKY, 1962

LOCATION

COUNTRY... UNITED STATES
STATE... UTAH
CITY... SANTOSA SPRINGS
GEOLOGIC PROVINCE... 35
MAP REFERENCE... 1:24000
OTHER LOCALITY INFORMATION... LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/RECEIVED... 1968/04/21
TEMPERATURE (C)... 23.9
WELL DEPTH (M)... 60
DISCHARGE... 189. L/IN

PH... 7.0
SPECIFIC CONDUCTANCE... 2080.
TOTAL DISSOLVED SOLIDS... 1320.

ANALYSIS IN PPM

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REFERENCE AND IDENTIFICATION

COMPILED BY... GOODE, H.
COMPILED AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE... KUHNTZKY, 1962

LOCATION

COUNTRY... UNITED STATES
STATE... UTAH
CITY... SANTOSA SPRINGS
GEOLOGIC PROVINCE... 35
MAP REFERENCE... 1:24000
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PH... 7.0
SPECIFIC CONDUCTANCE... 2080.
TOTAL DISSOLVED SOLIDS... 1320.

ANALYSIS IN PPM

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REFERENCE AND IDENTIFICATION

COMPILED BY... GOODE, H.
COMPILED AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE... KUHNTZKY, 1962

LOCATION

COUNTRY... UNITED STATES
STATE... UTAH
CITY... SANTOSA SPRINGS
GEOLOGIC PROVINCE... 35
MAP REFERENCE... 1:24000
OTHER LOCALITY INFORMATION... LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/RECEIVED... 1968/04/21
TEMPERATURE (C)... 23.9
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PH... 7.0
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ANALYSIS IN PPM

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COMPILED AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE... KUHNTZKY, 1962

LOCATION

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STATE... UTAH
CITY... SANTOSA SPRINGS
GEOLOGIC PROVINCE... 35
MAP REFERENCE... 1:24000
OTHER LOCALITY INFORMATION... LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/RECEIVED... 1968/04/21
TEMPERATURE (C)... 23.9
WELL DEPTH (M)... 60
DISCHARGE... 189. L/IN

PH... 7.0
SPECIFIC CONDUCTANCE... 2080.
TOTAL DISSOLVED SOLIDS... 1320.

ANALYSIS IN PPM

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REFERENCE... KUHNTZKY, 1962

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STATE... UTAH
CITY... SANTOSA SPRINGS
GEOLOGIC PROVINCE... 35
MAP REFERENCE... 1:24000
OTHER LOCALITY INFORMATION... LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/RECEIVED... 1968/04/21
TEMPERATURE (C)... 23.9
WELL DEPTH (M)... 60
DISCHARGE... 189. L/IN

PH... 7.0
SPECIFIC CONDUCTANCE... 2080.
TOTAL DISSOLVED SOLIDS... 1320.
STATE: UTAH
COUNTY: UTAH
GEOLOGIC PROVINCE: SARATOGA SPRINGS 1124000
MAP REFERENCE: SARBOTA SPRINGS 1124000
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1968/04/21
TEMPERATURE (C): 22.2
WELL DEPTH (M): 30

MARCH ANALYSIS
PH: 7.2
SPECIFIC CONDUCTANCE: 2080.0
ANALYSIS IN PPM
AL: 1.0
Cr: 1.0
Mg: 5.4
Ca: 167
HCO3: 320

REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: SUBITZY, 1962

---

GEOHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: BURGIN MINE
WELL/SPRING NUMBER: (C-10) 215000-1

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: UTAH
GEOLOGIC PROVINCE: 1124000
MAP REFERENCE: EUREKA 1124000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1968/04/16
TEMPERATURE (C): 54.4
DISCHARGE: 10200 L/MIN

MARCH ANALYSIS
PH: 8.0
SPECIFIC CONDUCTANCE: 10900.0
TOTAL DISSOLVED SOLIDS: 6610.0
ANALYSIS IN PPM
CO2: 75.0
CH: 75.0
AS: 0.4
Fe: 2.2
Ca: 32.7
Cl: 33.0

REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: CORDOVA, 1969
GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE... CHATEN HOT SPRING
WELL/SPRING NUMBER... (C- S- 1125CDC)

LOCATION
COUNTRY................. UNITED STATES
STATE.................. UTAH
COUNTY.................. UTAH
GEOLOGIC PROVINCE.... J5
MAP REFERENCE......... SARATOGA SPRINGS 1124000

COORDINATES
LAT/LONG .. 40-21.18 N 111-53.70 W
UTM ZONE .. +12
NORTHING .. 4463593.
EASTING .. 423567.

DATE/COLLECTION...... 1978/05/27
TEMPERATURE (C)...... 41.6

PH..................... 7.3
SPECIFIC CONDUCTANCE.. 2140.
TOTAL DISSOLVED SOLIDS.. 1390.

ANALYSIS IN PPM
AL+++ CR+++ MG+++ 49.
Ca+++ CH+++ Na+++ 5102. 21.
Ba+++ F+++ Na+K 35.
Cl+++ Fe+++ Mg+++ 504. 70.
Ca+++ 75. HCO3+++ 240. NO3+++ 1.4.

REFERENCE... FLEITIS; 1967

GEOATHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE... CHATEN HOT SPRING
WELL/SPRING NUMBER... (C- S- 1125CDC)

LOCATION
COUNTRY................. UNITED STATES
STATE.................. UTAH
COUNTY.................. UTAH
GEOLOGIC PROVINCE.... J5
MAP REFERENCE......... SARATOGA SPRINGS 1124000

COORDINATES
LAT/LONG .. 40-21.18 N 111-53.70 W
UTM ZONE .. +12
NORTHING .. 4463593.
EASTING .. 423567.

DATE/COLLECTION...... 1978/05/27
TEMPERATURE (C)...... 41.6

PH..................... 7.3
SPECIFIC CONDUCTANCE.. 2140.
TOTAL DISSOLVED SOLIDS.. 1390.

ANALYSIS IN PPM
AL+++ CR+++ MG+++ 49.
Ca+++ CH+++ Na+++ 5102. 21.
Ba+++ F+++ Na+K 35.
Cl+++ Fe+++ Mg+++ 504. 70.
Ca+++ 75. HCO3+++ 240. NO3+++ 1.4.

REFERENCE... FLEITIS; 1967

GEOATHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE... CHATEN HOT SPRING
WELL/SPRING NUMBER... (C- S- 1125CDC)

LOCATION
COUNTRY................. UNITED STATES
STATE.................. UTAH
COUNTY.................. UTAH
GEOLOGIC PROVINCE.... J5
MAP REFERENCE......... SARATOGA SPRINGS 1124000

COORDINATES
LAT/LONG .. 40-21.18 N 111-53.70 W
UTM ZONE .. +12
NORTHING .. 4463593.
EASTING .. 423567.

DATE/COLLECTION...... 1978/05/27
TEMPERATURE (C)...... 41.6

PH..................... 7.3
SPECIFIC CONDUCTANCE.. 2140.
TOTAL DISSOLVED SOLIDS.. 1390.

ANALYSIS IN PPM
AL+++ CR+++ MG+++ 49.
Ca+++ CH+++ Na+++ 5102. 21.
Ba+++ F+++ Na+K 35.
Cl+++ Fe+++ Mg+++ 504. 70.
Ca+++ 75. HCO3+++ 240. NO3+++ 1.4.

REFERENCE... FLEITIS; 1967
GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... CHAIN HOT SPRINGS
WELL/SPRING NUMBER..... (C- 5- 1125802-1)

LOCATION
COUNTRY............... UNITED STATES 055 001W 25 SW UF NW NW
STATE............... UTAH
COUNTY............... UTAH
GEOLOGIC PROVINCE...

MAP REFERENCE...... SARATOGA SPRINGS 1124000

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR.... 1958/05/27
TEMPERATURE (°C)..... 41.6
WATER ANALYSIS
PH...................... 7.3

REFERENCE AND IDENTIFICATION
COMPILATION DATE: 1962

REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.............. SUBITZKY, 1962

RECORD 00515

GEOTHERM FILE 101 001755

REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.............. SUBITZKY, 1962

RECORD 00515

GEOTHERM FILE 101 001755
SPECIFIC CONDUCTANCE: 2740.
TOTAL DISSOLVED SOLIDS: 1390.
ANALYSIS IN PPM
AL: 430
BF: 2.2
BA: 232
H: 78
CA: 180
CL: 310
HCO3: 320

ISOTOPES (0/01)

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MUNDOFF, 1970

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE: CRATEN HOT SPRINGS
WELL/SPRING NUMBER: (C- 5- 1125-S)
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: UTAH
GEOLOGIC PROVINCE: 35
MAP REFERENCE: SANATOGA SPRINGS 1124000
OTHER RELEVANT INFORMATION: SPRINGS ISSUE BENEATH THE SURFACE OF UTAH LAKE ABOUT 1/2 MILE EAST OF SANATOGA HOT SPRINGS.

SPECIAL DESCRIPTION AND CONDITIONS
DATE/RECORD: 235
TEMPERATURE (C): 43.3

PHYSICAL ANALYSIS
PH: 7.3
SPECIFIC CONDUCTANCE: 2230.
TOTAL DISSOLVED SALTS: 1440.
ANALYSIS IN PPM
AL: 430
BF: 2.2
BA: 232
H: 78
CA: 180
CL: 310
HCO3: 320

ISOTOPES (0/01)

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MUNDOFF, 1970

GEOThERM SAMPLE FILE
NAME OF SAMPLE SOURCE: DIAMOND FORK WARM SPRINGS
WELL/SPRING NUMBER: (D- 9- 5140-5)
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: UTAH
GEOLOGIC PROVINCE: 35

COORDINATES
LAT/LONG: 40-07.06 N 111-20.22 W
UTM ZONE: 12
NORTHING: 4440587.
EASTING: 4712082.
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**REFERENCE AND IDENTIFICATION**

Compiled by: Goode, H.
Compiler affiliation: Utah Geological and Mineral Survey
Reference: Subitzky, 1962

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**GEOThERM SAMPLE FILE**

**NAME OF SAMPLE SOURCE...** ELBERTA

**WELL/SPRING NUMBER...** 1C-10 11166BB

**LOCATION**

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**COORDINATES**

| Lat/Lon      | 39-57.08 N 111-56.16 W |
| UTM Zone     | 12               |
| Northing     | 4428544.        |

**SAMPLE DESCRIPTION AND CONDITIONS**

Date/Collection: 1977/07/00
Temperature (°C): 22
Water Analysis
PH: 6.0
Charge Imbalance (% Diff): 29.7
Analyzed in mg/l
| AL... | 0.05 | CR... | 10.1 |
| Na... | 0.04 | NO3... | 50.4 |
| Ca... | 278  | MCO3... | 140  |
| Cl... | 350  | K...   | 15   |

**ISOTOPES (1/001)**

**REFERENCE AND IDENTIFICATION**

Compiled by: Murphy, P.
Compiler affiliation: Utah Geological and Mineral Survey
Reference: Parry and Cleary, 1978

---

**GEOThERM SAMPLE FILE**

**NAME OF SAMPLE SOURCE...** ELBERTA LAND & WATER CO.

**WELL/SPRING NUMBER...** 1C-10 112800 A-1

**LOCATION**

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**COORDINATES**

| Lat/Lon      | 39-55.08 N 111-56.16 W |
| UTM Zone     | 12               |
| Northing     | 4420006.        |

**SAMPLE DESCRIPTION AND CONDITIONS**

Date/Collection: 1951/11/23
Temperature (°C): 20.0
Well Depth (M): 102
Discharge (L/min): 189

**REFERENCE AND IDENTIFICATION**

Compiled by: Goode, H.
Compiler affiliation: Utah Geological and Mineral Survey
REFERENCE

GEOThERM SAMPLE FILE

NAME OF SAMPLE SOURCE... ENNIS, W. D.
WELL/SPRING NUMBER..... (C= 5= 1124000C
LOCATION
COUNTRY.............. UNITED STATES
STATE............... UTAH
COUNTY............... UTAH
GEOLoGIC PROVINCE. 35
MAP REFERENCE..... SARATOGA SPRINGS 1124000
SUmARY DESCRIPTION AND CONDITIONS
TEMPERATURE (C)........ 21.1
WELL DEPTH (M)........ 276
REFERENCE AND IDENTIFICATION
COMPILED BY.......... GOOGE, H.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............. SUBITZKY, 1962

RECORD 06522

NAME OF SAMPLE SOURCE... FAULT ZONE SPRING
WELL/SPRING NUMBER..... (C= 6= 1)AAB-1
LOCATION
COUNTRY.............. UNITED STATES
STATE............... UTAH
COUNTY............... UTAH
GEOLoGIC PROVINCE. 35
MAP REFERENCE..... SARATOGA SPRINGS 1124000
OTHER LOCALITY INFORMATION
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION....... 1960/05/04
TEMPERATURE (C)........ 32.2
HARv. ANALYSIS
PH. .................... 7.8
TOTAL DISSOLVED SOLIDS... 1668
ANALYSIS IN PPM
AL.................. 0
CR.................. 0
Na................. 202
FA........................... 0
Fe(Tot)........... 6
CA.................. 124
Cl.................. 440
CO.................. 12
QUALIFICATION FIELD. FE INCLUDES AL203.
REFERENCE AND IDENTIFICATION
COMPILED BY.......... GOOGE, H.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............. SUBITZKY, 1962

RECORD 06523

NAME OF SAMPLE SOURCE... FITZERHALD, L. W.

RECORD 06524
WELL/SPRING NUMBER***** (C- 8- 1) 20 CUB-1

LOCATION
COUNTRY****** UNITED STATES 085 001 W 20 NW OF SE SW
STATE****** UTAH
COUNTY**** UTAH
GEOLOGIC PROVINCE:**
MAP REFERENCE****** GOSHEN VALLEY NORTH 1124000

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION....... 1945/11/11
TEMPERATURE (C)....... 20.0
WELL DEPTH (M)......... 62.
DISCHARGE............. 57. L/MIN

REFERENCE AND IDENTIFICATION
COMPILED BY........ GOODE, H.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.............. CORDOVA, 1969

--------------

R E C O R D 00524
GEO THERM FILE IDI 0017386

GEO THERM SAMPLE FILE
NAME OF SAMPLE SOURCE... GOSHEN WARM SPRINGS
WELL/SPRING NUMBER***** (0-10- 1) 8C-5
LOCATION
COUNTRY****** UNITED STATES 10S 001E 08 SW
STATE****** UTAH
COUNTY**** UTAH
GEOLOGIC PROVINCE.... 35
MAP REFERENCE****** SANATAQUIN 1162500
OTHER LOCALITY INFORMATION: ABOUT 2 MILES EAST OF GOSHEN AND 3 MILES S-SW OF SANATAQUIN

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR....... 1944/05/27
TEMPERATURE (C)....... 21.1
WATER ANALYSIS
PH........ 7.3
SPECIFIC CONDUCTANCE... 2310.
TOTAL DISSOLVED SOLIDS... 1320.
ANALYSIS IN PPM
AL....... CR....... Mg....... 41.
H....... Fe....... Na....... 356.
HA....... RE....... Na+K....... 304.
RE....... FETOT........ NH....... 1y2.
CA....... 64.
HCO3....... 316.
CL....... 55.

REFERENCE AND IDENTIFICATION
COMPILED BY........ MURPHY, P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.............. MURPHY, 1970

--------------

R E C O R D 00525
GEO THERM FILE IDI 0017307

GEO THERM SAMPLE FILE
NAME OF SAMPLE SOURCE... GV A-4
WELL/SPRING NUMBER***** (C- 9- 1) 12684A
LOCATION
COUNTRY****** UNITED STATES 09S 001W 26 NE OF SE NW
STATE****** UTAH
TOWNSHIP-REFERENCE
COORDINATES
LAT/LONG..... 40-06.01 N 111-39.20 W
UTM ZONE..... +12
NORTHING.... 4439210.
### Geothermal Sample File

**Sample Name:** G0 WAMH

**Well/Spring Number:** 10-10-118AC

**Location**
- **Country:** United States
- **State:** Utah
- **County:** Utah
- **Geologic Province:** 35
- **Map Reference:** Santaquin 1162500

**Sample Description and Conditions**
- **Date/Collector:** 1977/07/00
- **Temperature (°C):** 61

**Mass Analysis**

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**Isotopes (8/80)**

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### Geothermal Sample File

**Sample Name:** G0 WAMH

**Well/Spring Number:** 10-10-118AC

**Location**
- **Country:** United States
- **State:** Utah
- **County:** Utah
- **Geologic Province:** 35
- **Map Reference:** Santaquin 1162500

**Sample Description and Conditions**
- **Date/Collector:** 1977/07/00
- **Temperature (°C):** 61

**Mass Analysis**

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**Isotopes (8/80)**

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GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... HALL, M.
WELL/SPRING NUMBER... 10-8-2116GCD-1

LOCATION
COUNTRY............. UNITED STATES
STATE.............. UTAH
COUNTY............. UTAH
MAP REFERENCE...... SPANISH FORK 1144000

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1965/07/09
TEMPERATURE (C)..... 20.0
WELL DEPTH (M)...... 206
DISCHARGE......... 11.0 L/MIN

WATER ANALYSIS

SPECIFIC CONDUCTANCE...... 1400
TOTAL DISSOLVED SOLIDS...... 331

CHARGE IMBALANCE (DIFF)... 1.0

ANALYSIS IN PPM

AG...... CO3...... 60
AL...... CR...... 24
K...... F...... 35
NA...... HCO3...... 108
Mg...... Ca...... 504
Cl...... SO4...... 51
CO2...... K...... 15

REFERENCE AND IDENTIFICATION
COMPILED BY...... GOODING, H.
COMPILER AFFILIATION...... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE...... CORDOVA, 1969

I00540

PAGE 0273
<table>
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**REFERENCE**

**NAME OF SAMPLE SOURCE**: Lazy S Cattle Co.

**WELL/SPRING NUMBER**: C-10-1 129CD-1

**LOCATION**

**COUNTRY**: United States

**STATE**: Utah

**COUNTY**: Utah

**GEOLOGIC PROVINCE**: San Juan 1162500

**MAP REFERENCE**: Santaquin 1162500

**SAMPLING CONDITIONS**

**DATE/COLLECTOR**: 1966/06/14

**TEMPERATURE (C)**: 22.2

**WELL DEPTH (M)**: 263

**DISCHARGE**: 6215 L/Min

**REFERENCE**

**NAME OF SAMPLE SOURCE**: Lazy S Cattle Co.

**WELL/SPRING NUMBER**: C-10-1 129CC-1

**LOCATION**

**COUNTRY**: United States

**STATE**: Utah

**COUNTY**: Utah

**GEOLOGIC PROVINCE**: San Juan 1162500

**MAP REFERENCE**: Santaquin 1162500

**SAMPLING CONDITIONS**

**DATE/COLLECTOR**: 1966/06/14

**TEMPERATURE (C)**: 20.0

**WELL DEPTH (M)**: 157

**DISCHARGE**: 8360 L/Min

**WATER ANALYSIS**

**pH**: 6.9

**SPECIFIC CONDUCTANCE**: 792

**TOTAL DISSOLVED SOLIDS**: 484

**CHLORIDE IMBALANCE (% DIFF.)**: 0.0

**ANALYSIS IN ppm**

**NO**

**23**
NAME OF SAMPLE SOURCE: LINCOLN POINT WARM SPRINGS
WELL/SPRING NUMBER: (D= 9 = 1)305A-51
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: UTAH
GEOLOGIC PROVINCE: J5
MAP REFERENCE: LINCOLN POINT 112400V
SAMPLE DESCRIPTION AND CONDITIONS
DATE/Collector: 1966/06/16
TEMPERATURE (C): 31.7
WATER ANALYSIS
PH: 7.6
CHARGE BALANCE (OH DIFF): 2.6
AL: 0.02
CR: 20
Mg: 12
Na: 15
SiO2: 83
Ca: 63
HCO3: 216
Cl: 65
CO3: 9
REFERENCE: PARRY AND CLEARY, 1978
RECORD: 00537
SPECIFIC CONDUCTANCE: 9340.
TOTAL DISSOLVED SOLIDS: 6140.

ANALYSIS IN PPM

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REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: CORDOVA, 1969

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GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: LINCOLN POINT WARM SPRINGS
WELL/Spring NUMBER: (P= 112440-1)
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: UTAH
GEOLOGIC PROVINCE: LINDON POINT 1124400
MAP REFERENCE: LINCOLN POINT 1124400
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C): 30.5

REFERENCE: GOODHUE, M.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: SUBITZKY, 1962

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GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: LINCOLN POINT WARM SPRINGS
WELL/Spring NUMBER: (P= 112440-1)
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: UTAH
GEOLOGIC PROVINCE: LINCOLN POINT 1124400
MAP REFERENCE: LINCOLN POINT 1124400
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION: 1964/05/27
TEMPERATURE (C): 30.5
PENTRENT LITHOLOGY: ISSUE FROM VALLEY FILL OF QUATERNARY AGE.
MAF ANALYSIS
PH: 7.
SPECIFIC CONDUCTANCE: 9340.
Utah Geological Survey

Sample Source: Shelley, S. J.

Location:
- County: Utah
- State: United States
- Township: 05S
- Range: 01W
- Section: 23
- NE of SE NW
- Coordinates: 40-22.38 N 111-54.96 W
- UTM Zone: 12
- NAD83

WELL/SPRING:
- Depth: 32.1 m

Water Analysis:
- Total Dissolved Solids (TDS): 1503 ppm
- pH: 6.9
- Specific Conductance: 2.3 mhos

Analysis in PPM:
- Al: 148
- Ca: 148
- Mg: 34
- Na: 273
- K: 213
- Fe: 3
- NO3: 0.6
- SO4: 388
- Cl: 361
- HCO3: 281

Isotopes:
- 18O: 0.0
- 2H: 0.0

Reference and Identification:
- Compiled by: Murphy, P.
- Compiler Affiliation: Utah Geological and Mineral Survey
- Reference: Munda, 1970
COUNTRY.............. UNITED STATES 05S 001W 26 NW OF SE NW
STATE............... UTAH
COUNTY............... UTAH
GEOLOGIC PROVINCE... 35
MAP REFERENCE....... SARATOGA SPRINGS 1124000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR...... 1950/04/29
TEMPERATURE (C)..... 30.0
WELL DEPTH (M)...... 152.
WATER ANALYSIS
SPECIFIC CONDUCTANCE 1990.
TOTAL DISSOLVED SOLIDS 1230.
ANALYSIS IN PPM
AL........ CH........ MG..... 52.
F........ NA........ NA+K.... 197.
HA........ FE+3...... NA+K.... 197.
RE........ FE(TI).... NA+K.... 197.
CA........ 192.
HCO3........ 310.
NO3........ 1.4

ISOTOPES (10/01)

REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............. SUBIRTY, 1962

=================================================================
GEOCHEMICAL SAMPLE FILE

GEOTHERMAL SPRING LOCATION... SUGARHOUSE STAKE LDS
SOURCE OF SAMPLE SOURCE... SUGARHOUSE STAKE LDS
WELL/SPRING NUMBER...... (C-5- 112568-1)

LOCATION
COUNTRY............... UNITED STATES 05S 001W 25 NW OF NW SW
STATE............... UTAH
COUNTY............... UTAH
GEOLOGIC PROVINCE... 35
MAP REFERENCE....... SARATOGA SPRINGS 1124000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR....... 1950/04/09
TEMPERATURE (C)..... 35.
WELL DEPTH (M)...... 45.
DISCHARGE........... 568 L/HR
WATER ANALYSIS
PH.................... 7.2
TOTAL DISSOLVED SOLIDS 1588.
ANALYSIS IN PPM
AL........ CH........ MG..... 50.
F........ NA........ NA+K.... 246.
HA........ FE+3...... NA+K.... 246.
RE........ FE(TI).... NA+K.... 246.
CA........ 192.
HCO3........ 339.
NO3........ N

ISOTOPES (10/01)

REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION.. UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............. SUBIRTY, 1962

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| Reference and Identification | Compiled By: Goode, M. |
| **Compiler Affiliation** | Utah Geological and Mineral Survey |
| **Reference** | Subject: 1962 |

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| Reference and Identification | Compiled By: Goode, M. |
| **Compiler Affiliation** | Utah Geological and Mineral Survey |
| **Reference** | Subject: 1962 |

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REFERENCE AND IDENTIFICATION
COMPILER HY.............. GOODE, H.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.............. SUGIYAMA, 1969

GEOCHEMICAL SAMPLE FILE
NAME OF SAMPLE SOURCE... THOMAS, M.
WELL/SPRING NUMBER..... (6-10) 1134A-H

LOCATION
COUNTRY.............. UNITED STATES
STATE.............. UTAH
COUNTY.............. UTAH
GEOLOGIC PROVINCE... SANTAQUIN 1162500
MAP REFERENCE.... SANTAQUIN 1162500
OTHER LOCALITY INFORMATION... LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION...... 1964/08/07
TEMPERATURE (C)....... 20.0
WELL DEPTH (M)........ 130.0

WATER ANALYSIS
PH........................ 6.4
SPECIFIC CONDUCTANCE... 2570.0
TOTAL DISSOLVED SOLIDS... 1780
CHARGE IMBALANCE (% DIFF)... 0.3

ANALYSIS IN PPM
AGM................. 11.
AL................. 85.
CA................. NA.
CO3................. 120.
CL................. 32.
K................. 85.
Mg................. 185.
Na................. S04.

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION
COMPILER HY.............. GOODE, H.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.............. CORDOVA, 1969

GEOCHEMICAL SAMPLE FILE
NAME OF SAMPLE SOURCE... W. S. STEEL
WELL/SPRING NUMBER..... (6-10) 218GAC-S

LOCATION
COUNTRY.............. UNITED STATES
STATE.............. UTAH
COUNTY.............. UTAH
GEOLOGIC PROVINCE... SANTAQUIN 1162500
MAP REFERENCE.... SANTAQUIN 1162500
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C)....... 20.0
WELL DEPTH (M)........ 136.3
DISCHARGE............. 10780 L/MIN

REFERENCE AND IDENTIFICATION
COMPILER HY.............. GOODE, H.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: SUBITZKY, 1962

GEOHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: U. S. STEEL
WELL/SPRING NUMBER: (0-6-216ACB-1

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: UTAH
GEOLOGIC PROVINCE:
MAP REFERENCE: OREM 1124000
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (°C): 29.6
WELL DEPTH (M): 363
DISCHARGE: 14006. L/MIN

REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, M.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: SUBITZKY, 1962

GEOHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: U. S. STEEL
WELL/SPRING NUMBER: (0-6-215ACB-4

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: UTAH
GEOLOGIC PROVINCE:
MAP REFERENCE: OREM 1124000
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1955/06/29
TEMPERATURE (°C): 29.6
WELL DEPTH (M): 324
DISCHARGE: 7571. L/MIN

WATER ANALYSIS
PH: 7.9
TOTAL DISSOLVED SOLIDS: 157
ANALYSIS IN PPM
AL: 0.25
Mg: 0.39
NO: 0.25
NA: 0.25
K: 0.24
HA: 0.24
Ca: 0.29
Mg: 0.29
Na: 0.29
Cl: 0.29

REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, M.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: SUBITZKY, 1962

ISOTOPES (10/62)

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**ISOTOPES (10/001)**

| AL | 0.25 |
| CR | 0.1 |
| CA | 0.3 |
| HCO3 | 168 |

**REFERENCE AND IDENTIFICATION**

Compiled by: GOODE, H.

Compiler Affiliation: UTAH GEOLOGICAL AND MINERAL SURVEY

Reference: SUBITZKY, 1962

---

**GEOATHERM FILE**

**NAME OF SAMPLE SOURCE:** UNNAMED

**WELL/SPRING NUMBER:** (G-11-2) 234-05

**LOCATION**

**COUNTRY:** UNITED STATES

**STATE:** UTAH

**TOWNSHIP-RANGE:** 11S 002W 03 SE OF NE

**COORDINATES**

| LAT/LONG | 39°53.94'N 112°02.70'W |
| UTM ZONE | 112 | 12 |
| NORTING | 4416760 |

**DATE/COLLECTOR:** 1965/08/26

**TEMPERATURE (C):** 22.2

**DISCHARGE:** 7.6 L/MIN

**ANALYSIS IN PPM**

| AG | CO3, N |
| CR | |
| NA | |
| CA | 72 |
| HCO3 | 252 |

**REFERENCE AND IDENTIFICATION**

Compiled by: HURRY, P.

Compiler Affiliation: UTAH GEOLOGICAL AND MINERAL SURVEY

Reference: CUMOVA, 1969

---

**GEOATHERM FILE**

**NAME OF SAMPLE SOURCE:** V. V. STAKES LUS CHURCH

**WELL/SPRING NUMBER:** (G-5-1) 2405-01

**LOCATION**

**COUNTRY:** UNITED STATES

**STATE:** UTAH

**TOWNSHIP-RANGE:** US 001W 24 SE OF SW SE

**COORDINATES**

| LAT/LONG | 40°21.8'N 111°57.5'W |
| UTM ZONE | 112 | 12 |

---

**REFERENCE AND IDENTIFICATION**

Compiled by: GOODE, H.

Compiler Affiliation: UTAH GEOLOGICAL AND MINERAL SURVEY

Reference: SUBITZKY, 1962

---

**GEOATHERM FILE**

**NAME OF SAMPLE SOURCE:** V. V. STAKES LUS CHURCH

**WELL/SPRING NUMBER:** (G-5-1) 2405-01

**LOCATION**

**COUNTRY:** UNITED STATES

**STATE:** UTAH

**TOWNSHIP-RANGE:** US 001W 24 SE OF SW SE

**COORDINATES**

<p>| LAT/LONG | 40°21.8'N 111°57.5'W |
| UTM ZONE | 112 | 12 |</p>
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**WATER ANALYSIS**

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**ANALYSIS IN PPM**

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**ISOTOPES (18/16)***

**REFERENCE AND IDENTIFICATION**

**COMPILED BY** | GOOCH, H.

**COMPILER AFFILIATION** | UTAH GEOLOGICAL AND MINERAL SURVEY

**REFERENCE** | SUBSITY, 1962

---

**OTHER SOURCES**

**NAME OF SAMPLE SOURCE** | WARM SPRING

**WELL/SPRING NUMBER** | J-10-1180-8

**LOCATION**

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**SAMPLE DESCRIPTION AND CONDITIONS**

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**WATER ANALYSIS**

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**ANALYSIS IN PPM**

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**ISOTOPES (18/16)**

**REFERENCE AND IDENTIFICATION**

**COMPILED BY** | MURPHY, P.
NAME OF SAMPLE SOURCE: WARM SPRING, WEST SHORE OF UTAH LAKE
WELL/SPRING NUMBER: (007-11088C-1)

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: UTAH
GEOLOGIC PROVINCE: 3S
MAP REFERENCE: LINCOLN POINT 1124000

SAMPLING DATE AND CONDITIONS
DATE COLLECTED: 1959/09/11
TEMPERATURE (°C): 23.9

WATER ANALYSIS
PH: 7.5
SPECIFIC CONDUCTANCE: 2570
TOTAL DISSOLVED SOLIDS: 1570

ANALYSIS IN PPM
AL: 5.8
H: 342
NA: 342
HE: 4
CA: 160
HCO3: 160
CL: 510

REFERENCE AND IDENTIFICATION
COMPILER: GOODE, H.
REFERENCES: SUBITTZKY, 1962

NAME OF SAMPLE SOURCE: WARM SPRING, WEST SHORE OF UTAH LAKE
WELL/SPRING NUMBER: (007-11088C-1)

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: UTAH
GEOLOGIC PROVINCE: 3S
MAP REFERENCE: LINCOLN POINT 1124000

SAMPLING DATE AND CONDITIONS
DATE COLLECTED: 1959/09/11
TEMPERATURE (°C): 25.0

WATER ANALYSIS
PH: 6.9
SPECIFIC CONDUCTANCE: 2570
TOTAL DISSOLVED SOLIDS: 1570

ANALYSIS IN PPM
AL: 58
H: 342
NA: 342
HE: 4
CA: 160
HCO3: 160
CL: 510

REFERENCE AND IDENTIFICATION
COMPILER: GOODE, H.
REFERENCES: SUBITTZKY, 1962
### Geothermal Sample File

**Reference and Identification**
- **Compiled By:** Goode, M.
- **Compiler Affiliation:** Utah Geological and Mineral Survey
- **Reference:** Subitzky, 1962

**Geothermal Sample File**
- **Name of Sample Source:** Wilford Stake Los Church
- **Well/Spring Number:** 1125CCB-2

**Location**
- **Country:** United States
- **State:** Utah
- **County:** Utah
- **Geologic Province:** Saratoga Springs 1124000

**Other Locality Information: Location Approximate**

**Sample Description and Conditions**
- **Date/Collector:** 1965/04/25
- **Temperature (°C):** 35.0
- **Depth (m):** 45.0
- **Discharge:** 379.0, L/MIN

**Water Analysis**
- **pH:** 7.3
- **Specific Conductance:** 2230.0
- **Total Dissolved Solids:** 1420.0

**Analysis in ppm**
- **Al:** 18.4
- **Ca:** 316.0
- **Mg:** 52.0
- **NO3:** 0.8
- **NO2:** 0.8
- **Na:** 229.0
- **NH4:** 1.1
- **Cl:** 310.0

**Reference and Identification**
- **Compiled By:** Goode, M.
- **Compiler Affiliation:** Utah Geological and Mineral Survey
- **Reference:** Subitzky, 1962

---

**Geothermal Sample File**
- **Name of Sample Source:** Wood Springs
- **Well/Spring Number:** 0-7-3J2D-S

**Location**
- **Country:** United States
- **State:** Utah
- **County:** Utah
- **Geologic Province:** Springville 1124000
- **Map Reference:** Springville 1124000

**Sample Description and Conditions**
- **Date/Collector:** 1965/04/28
- **Temperature (°C):** 22.7
- **Discharge:** 620.0, L/MIN

**Water Analysis**
- **pH:** 7.3
- **Specific Conductance:** 2230.0
- **Total Dissolved Solids:** 1420.0

**Analysis in ppm**
- **Al:** 18.4
- **Ca:** 316.0
- **Mg:** 52.0
- **NO3:** 0.8
- **NO2:** 0.8
- **Na:** 229.0
- **NH4:** 1.1
- **Cl:** 310.0
I 0 0, 

SPECIFIC CONDUCTANCE... 8.1 
TOTAL DISSOLVED SOLIDS... 391. 
ANALYSIS IN PPm 

AL... 0.000016 
Ca... 86. 
Cl... 20. 
F... 0. 
Fe... 0.011034 
K... 21. 
Mg... 29. 
Na... 5102. 
S... 0.00016 
Si... 9.6 

QUALIFICATION FIELD... TEMPERATURE 6 C ON P27 OF BASIC DATA REPORT 16. 
REFERENCE AND IDENTIFICATION 
COMPILED BY... Goode, H. 
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY 
REFERENCE... CORDOVA, 1969.
ANALYSIS IN mg/L

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REFERENCE AND IDENTIFICATION

COMPILED BY: MURPHY, P.
COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: RAKER, 1970

TOTAL DISSOLVED SOLIDS: 1730.
CHARGE IMBALANCE (% DIFF): 0.9.

ISOPIES (0/00)

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REFERENCE AND IDENTIFICATION

COMPILED BY: MURPHY, P.
COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: RAKER, 1970

TOTAL DISSOLVED SOLIDS: 1990.
ANALYSIS IN PPM

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REFERENCE AND IDENTIFICATION

COMPILED BY: MURPHY, P.
COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: RAKER, 1970

TOTAL DISSOLVED SOLIDS: 2560.
ANALYSIS IN PPM

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REFERENCE AND IDENTIFICATION

COMPILED BY: MURPHY, P.
COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: RAKER, 1970

TOTAL DISSOLVED SOLIDS: 2560.
ANALYSIS IN PPM

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<td>Reference</td>
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GEOHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... MIDWAY HOT SPRINGS
WELL/SPRING NUMBER..... (D= 3= 412788B/S-51
LOCATION
COUNTRY.............. UNITED STATES
STATE............... UTAH
COUNTY.............. WASATCH
GEOLOGIC PROVINCE..
MAP REFERENCE...... MEHER CITY 1124600
OTHER LOCALITY INFORMATION: ABOUT 4 MILES WEST OF MEHER CITY

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION..... 1967/09/13
TEMPERATURE (C)...... 45.

WATER ANALYSIS
PH................... 7.5
SPECIFIC CONDUCTANCE... 2410.
TOTAL DISSOLVED SOLIDS. 1810.

ANALYSIS IN PPM
AG........ CO3....... N
Al........ CR........ 0.04
K........ F......... 2.5
HCO3...... Fe(II)....
Ca........ MgO3..... 644.
Cl........ N03...... 0.4

ISOTOPES (%/O)

REFERENCE AND IDENTIFICATION
COMPILED BY.......... MURPHY, P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............ NUCKERFF... 1970

GEOHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... MIDWAY HOT SPRINGS
WELL/SPRING NUMBER..... (D= 3= 412788B/S-51
LOCATION
COUNTRY.............. UNITED STATES
STATE............... UTAH
COUNTY.............. WASATCH
GEOLOGIC PROVINCE..
MAP REFERENCE...... MEHER CITY 1124600

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION..... 1967/09/23
TEMPERATURE (C)...... 30.
OTHER SAMPLE INFORMATION: MULTIPLE ORIFICES SCATTERED OVER LARGE AREA

WATER ANALYSIS
TOTAL DISSOLVED SOLIDS... 2280.

ANALYSIS IN MG/L

REFERENCE AND IDENTIFICATION
COMPILED BY.......... MURPHY, P.
COMPILER AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............ RAKER... 1970
**Geotherm Sample File**

**Name of Sample Source:** Midway Hot Springs

**Well/Spring Number:** 03-3-4278B-52

**Location**

- **Country:** United States
- **Township-Range:** 03S 004E 27 SE of NW SW
- **Geologic Province:** Wasatch
- **Map Reference:** Heber City 1124000

**Sample Description and Conditions**

- **Date/Collector:** 1967/05/15
- **Temperature (°C):** 32.
- **Other Sample Information:** Multiple orifices scattered over large area

**Water Analysis**

- **pH:** 7.9
- **Specific Conductance:** 2120 μS/cm
- **Total Dissolved Solids:** 1630 mg/L
- **Charge Imbalance (% Diff.):** 1.8

**Analysis in mg/L**

- **Ag:**
- **Co3:** N
- **Cl:**
- **Fe** (Tot): 2.4
- **K:**
- **Na:** 114
- **SiO2:** 17
- **Ca:** 279
- **MgO:** 572
- **NO3:** N

**Isotopes (10/80)**

- **Reference and Identification**
  - **Compiled By:** Murphy, P.
  - **Compiler Affiliation:** Utah Geological and Mineral Survey
  - **Reference:** Baker, 1970

---

**Geotherm Sample File**

**Name of Sample Source:** Midway Hot Springs

**Well/Spring Number:** 03-3-4278B-52

**Location**

- **Country:** United States
- **Township-Range:** 03S 004E 27 SE of NW SW
- **Geologic Province:** Wasatch
- **Map Reference:** Heber City 1124000

**Sample Description and Conditions**

- **Date/Collector:** 1967/05/15
- **Temperature (°C):** 29.
- **Other Sample Information:** Multiple orifices scattered over large area

**Water Analysis**

- **pH:** 7.7
- **Specific Conductance:** 2180 μS/cm
- **Total Dissolved Solids:** 1710 mg/L
- **Charge Imbalance (% Diff.):** 0.0

**Analysis in mg/L**

- **Ag:**
- **Co3:** N

**Isotopes (10/80)**

---
NU Srl

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: RAKEN, 1970

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE: MIDWAY HOT SPRINGS
WELL/SPRING NUMBER: (C- 3- 4) 27C00-S1
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: WASATCH
GEOLOGIC PROVINCE: 
MAP REFERENCE: MEHER CITY 1124000

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLECTOR: 1967/05/16
TEMPERATURE (°C): 29°
OTHER SAMPLE INFORMATION: MULTIPE ORIFICES SCATTERED OVER LARGE AREA

CHEMICAL ANALYSIS

PH: 7.8
SPECIFIC CONDUCTANCE: 2200 µS/cm
TOTAL DISSOLVED SOLIDS: 1650 ppm
CHARGE IMBALANCE (S DIFF): 2.2

ANALYSIS IN mg/L

AG: 0.71
Ca: 2.3
Mg: 130
Na: 504
K: 21
Cl: 115
CO3: 10
NO3: 0.1

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: RAKEN, 1970

Iodopes (°/00)

LA1/LUNA: 40-31.5 N 111-29.2 W
UTM ZONE: 12
NORTHING: 4485711.
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**OTHER SAMPLE INFORMATION**

- MULTIPLE ORIFICES SCATTERED OVER LARGE AREA
- TOTAL DISSOLVED SOLIDS: 24900 ppm
- CHARGE IMBALANCE (% DIFF): 0.1

**ANALYSIS IN PPM**

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**ISOTOPES (18/16)**

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<th>CO3</th>
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**REFERENCE AND IDENTIFICATION**

- COMPILED BY: Murphy, P.
- COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY

**REFERENCE**

RAKER, 1970
**GEOThERM SAMPLE FILE**

**NAME OF SAMPLE SOURCE...** ANDERSON RANCH

**WELL/SPRING NUMBER...** (C-40-131708-2)

**LOCATION**

- **COUNTRY:** UNITED STATES
- **TOWNSHIP-RANGE:** 405 013W 27 NW OF SE NW
- **COORDINATES:** LAT/LONG... 37-17.10 N 113-16.24 W
- **UTM ZONE:** +12
- **NORTHING:** 41287.4 Q 295746

**SAMPLE DESCRIPTION AND CONDITIONS**

- **DATE/COLLECTOR:** 1968/10/29
- **TEMPERATURE (C):** 21
- **WELL DEPTH (M):** 0.9
- **DISCHARGE:** 79 L/MIN

**WATER ANALYSIS**

- **pH:** 7.9
- **SPECIFIC CONDUCTANCE:** 484 µS/cm
- **TOTAL DISSOLVED SOLIDS:** 295 mg/L

**ANALYSIS IN MILLIGRAMS PER LITER**

- **AL: 3.0
- **FE: 0.1
- **CA: 5.0
- **CO3: 7.0
- **NO3: 6.8
- **Mg: 23
- **NA: 8.0
- **Mn: 2.0
- **Cl: 3.5

**REFERENCE AND IDENTIFICATION**

- **COMPILED BY:** MURPHY, P.
- **COMPILER AFFILIATION:** UTAH GEOLOGICAL AND MINERAL SURVEY
- **REFERENCE:** CORDOVA AND OTHERS, 1972

---

**GEOThERM SAMPLE FILE**

**NAME OF SAMPLE SOURCE...** REED SPRING

**WELL/SPRING NUMBER...** (C-42-141148-51)

**LOCATION**

- **COUNTRY:** UNITED STATES
- **TOWNSHIP-RANGE:** 425 014W 01 NW OF SW NW
- **COORDINATES:** LAT/LONG... 37-09.94 N 113-22.97 W
- **UTM ZONE:** +12
- **NORTHING:** 41156.34 Q 288318

**SAMPLE DESCRIPTION AND CONDITIONS**

- **DATE/COLLECTOR:** 1965/10/07
- **TEMPERATURE (C):** 23.5
- **DISCHARGE:** 125 L/MIN

**WATER ANALYSIS**

- **pH:** 8
- **SPECIFIC CONDUCTANCE:** 1640 µS/cm
- **TOTAL DISSOLVED SOLIDS:** 1180 mg/L
- **CHANGE IN WEIGHT (% DIFF):** 4.8

**ANALYSIS IN MILLIGRAMS PER LITER**

- **AL:** 6.0
- **Mg:** 7.2

**REFERENCE AND IDENTIFICATION**

- **COMPILED BY:** MURPHY, P.
- **COMPILER AFFILIATION:** UTAH GEOLOGICAL AND MINERAL SURVEY
- **REFERENCE:** CORDOVA AND OTHERS, 1972
### Geotherm Simple File

**Name of Sample Source:** Dixie Springs Farm  
**Well/SPRING NUMBER:** C-42-1412DEC-1

**Location**  
- **Country:** United States  
- **State:** Utah  
- **County:** Washington  
- **Geologic Province:** Hurricane 1162500

**Sample Description and Conditions**  
- **Date/Collector:** 1968/09/11  
- **Temperature (C):** 20  
- **Well Depth (M):** 43  
- **Discharge:** 382 L/min

**Water Analysis**  
- **Specific Conductance:** 303 μS/cm  
- **Analysis in mg/L**  
- **Cl:** 27

**Reference and Identification**  
- **Compiled by:** Murphy, P.  
- **Compiler Affiliation:** Utah Geological and Mineral Survey  
- **Reference:** Cordova and others, 1972

---

**Geotherm Simple File**  
**Name of Sample Source:** Earl E.  
**Well/SPRING NUMBER:** C-42-162ACA-1

**Location**  
- **Country:** United States  
- **State:** Utah  
- **County:** St. George 1162500

**Sample Description and Conditions**  
- **Date/Collector:** 1968/10/18  
- **Temperature (C):** 21  
- **Well Depth (M):** 41

**Water Analysis**  
- **Specific Conductance:** 3930 μS/cm  
- **Analysis in mg/L**  
- **Cl:** 111

**Reference and Identification**  
- **Compiled by:** Murphy, P.
NAME OF SAMPLE SOURCE: EMPEY, K.
WELL/SPRING NUMBER: I-42-151300CD0-2

LOCATION:
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: WASHINGTON
GEOLOGIC PROVINCE: HPV
MAP REFERENCE: ST. GEORGE 1162500

SAMPLE DESCRIPTION AND CONDITIONS:
DATE/COLLECTOR: 1968/04/12
TEMPERATURE (C): 20
WELL DEPTH (M): 36.9

WATER ANALYSIS:
P H: 7.6
SPECIFIC CONDUCTANCE: 4090
TOTAL DISSOLVED SOLIDS: 3740

REFERENCE: COROVA AND OTHERS, 1972

ISOtopes (0/00):

REFERENCE:
COMPILED BY: COROVA AND OTHERS, 1972

NAME OF SAMPLE SOURCE: FANCETT, M.
WELL/SPRING NUMBER: I-42-141568A-1

LOCATION:
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: WASHINGTON
GEOLOGIC PROVINCE: HPV
MAP REFERENCE: HURRICANE 1162500

SAMPLE DESCRIPTION AND CONDITIONS:
DATE/COLLECTOR: 1968/07/22
TEMPERATURE (C): 20
WELL DEPTH (M): 98
DISCHARGE: 410 L/MIN

WATER ANALYSIS:
SPECIFIC CONDUCTANCE: 1500
ANALYSIS IN MG/L

REFERENCE:
COMPILED BY: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: COROVA AND OTHERS, 1972
GREEN SPRING

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: WASHINGTON
GEOLOGIC PROVINCE: 36
MAP REFERENCE: ST. GEORGE 1162500

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1966/03/30
REFERENCE (C): 23.5

WATER ANALYSIS
SPECIFIC CONDUCTANCE: 2010.0
TOTAL DISSOLVED SOLIDS: 1240
CHARGE IMBALANCE (% DIFF): 2.6

ANALYSIS IN mg/L
Ag.: 4.0
Al.: 0.8
Ca.: 1.6
Cl.: 2.8
CO3.: 22.0
Cr.: 20.0
Fe: 28.0
HCO3.: 206.0
Na.: 260.0
N.: 415.0
SiO2.: 50.0

REFERENCE AND IDENTIFICATION
COMPILED BY: HURLEY, P.
COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: CORDOVA AND OTHERS: 1972

GEOHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: GREEN SPRING
WELL/SPRING NUMBER: (C-42-15)1588A-S1

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: WASHINGTON
GEOLOGIC PROVINCE: 36
MAP REFERENCE: ST. GEORGE 1162500

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1966/03/30
REFERENCE (C): 23.5

WATER ANALYSIS
SPECIFIC CONDUCTANCE: 2010.0
TOTAL DISSOLVED SOLIDS: 1240
CHARGE IMBALANCE (% DIFF): 2.6

ANALYSIS IN mg/L
Ag.: 4.0
Al.: 0.8
Ca.: 1.6
Cl.: 2.8
CO3.: 22.0
Cr.: 20.0
Fe: 28.0
HCO3.: 206.0
Na.: 260.0
N.: 415.0
SiO2.: 50.0

REFERENCE AND IDENTIFICATION
COMPILED BY: HURLEY, P.
COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
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### Sample Description and Conditions

**Date/Collection:** 1951/02/05

**Water Analysis**

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**Analysis in PPM**

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<td>Na</td>
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<td>Sr</td>
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**Reference and Identification**

**Compiled By:** Godde, M.
**Compiler Affiliation:** Utah Geological and Mineral Survey

---

### Geochemical Sample File

**Name of Sample Source:** Lavenkin (Dixie) Hot Spring
**Well/Spring Number:** C-61-131258-5

**Location**

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<td>Geographic District</td>
<td>Hurricane 1162500</td>
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**Other Locality Information:** About 18 miles east-northeast of St. George; location approximate.

**Sample Description and Conditions**

**Date/Collector:** 1966/03/25
**Temperature (°C):** 42.2
**Discharge:** 17034. L/min

**Water Analysis**

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**Analysis in PPM**

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<th>Value (mg/L)</th>
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<td>Ca</td>
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<td>Mg</td>
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<td>K</td>
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**Reference and Identification**

**Compiled By:** Godde, M.
**Compiler Affiliation:** Utah Geological and Mineral Survey
**REFERENCE**

**SAMPLE FILE**

**NAME OF SAMPLE SOURCE** LAVENKIN (DIXIE) HOT SPRING

**WELL/SPRING NUMBER** (C-41-13) 25-S

**LOCATION**

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**MAP REFERENCE** HURRICANE 1162500

**OTHER LOCALITY INFORMATION** ABOUT 18 MILES EAST-NORTHEAST OF ST. GEORGE; LOCATION APPROXIMATE.

**SAMPLE DESCRIPTION AND CONDITIONS**

**DATE/COLLECTOR** 1940/08/03

**WATER ANALYSIS**

**TOTAL DISSOLVED SOLIDS** 9460,

**CHARGE IMBALANCE (% DIFF.)** 1.0

**ANALYSIS IN PPM**

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<tr>
<th>AL***</th>
<th>Ca***</th>
<th>Mg***</th>
<th>Na***</th>
<th>SiO2***</th>
<th>K***</th>
<th>FeO***</th>
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**ISOTOPES (10/00)**

**REFERENCE AND IDENTIFICATION**

**COMPILED BY** GOODENOVO, H.

**COMPILER AFFILIATION** UTAH GEOLOGICAL AND MINERAL SURVEY

**REFERENCE** HUNDORFF, 1970

---

**REFERENCE**

**SAMPLE FILE**

**NAME OF SAMPLE SOURCE** LAVENKIN (DIXIE) HOT SPRINGS

**WELL/SPRING NUMBER** (C-41-13) 25-S

**LOCATION**

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**MAP REFERENCE** HURRICANE 1162500

**OTHER LOCALITY INFORMATION** ABOUT 18 MILES EAST-NORTHEAST OF ST. GEORGE; LOCATION APPROXIMATE.

**SAMPLE DESCRIPTION AND CONDITIONS**

**DATE/COLLECTOR** 1940/08/31

**WATER ANALYSIS**

**PH**

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**SPECIFIC CONDUCTANCE** 1.4500

**TOTAL DISSOLVED SOLIDS** 9490,

**CHARGE IMBALANCE (% DIFF.)** 2.0

**ANALYSIS IN PPM**

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**ISOTOPES (9/00)**
3.

NAME OF SAMPLE SOURCE: LAVERKIN (DIXIE) HUT SPRINGS
WELL/SPRING NUMBER: C-41-13-25-S

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: WASHINGTON
GEOLOGIC PROVINCE:
MAP REFERENCE: HURRICANE 1162500
OTHER LOCALITY INFORMATION: ABOUT 18 MILES EAST-NORHEAST OF ST. GEORGE I LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1956/06/15

WATER ANALYSIS
SPECIFIC CONDUCTANCE: 13900 µS/cm
TOTAL DISSOLVED SOLIDS: 9610 mg/L
ANALYSIS IN PPM
AL: 0.01
Ca: 0.05
Mg: 197.0
Na: 0.03
K: 0.03
Fe: 0.0001
Mn: 0.002
S: 0.02
Cl: 0.0003
HC03: 583.0
NO3: 3.2

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MUNDY, 1970

MUNDY 00589
GEOTHERM FILE 101 0017J77

---

NAME OF SAMPLE SOURCE: MYERS
WELL/SPRING NUMBER: C-42-1511400C-S1

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: WASHINGTON
GEOLOGIC PROVINCE: ST. GEORGE 1162500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1956/10/08
TEMPERATURE (°C): 20.0

WATER ANALYSIS
SPECIFIC CONDUCTANCE: 673 µS/cm
TOTAL DISSOLVED SOLIDS: 435 mg/L
ANALYSIS IN mg/L

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MUNDY, 1970

MUNDY 00589
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**REFERENCE AND IDENTIFICATION**

- **Compiled by**: GOODE, H.
- **Compiler Affiliation**: UTAH GEOLOGICAL AND MINERAL SURVEY
- **Reference**: CORDOVA AND OTHERS: 1972

**GEOThERM SAMPLE FILE**

- **NAME OF SAMPLE SOURCE**: NISSON, D.
- **WELL/SPRING NUMBER**: (C-42-15) 140AD-1

**LOCATION**

- **TOWNSHIP-SECTION**: 42S 015W 14 SE OF NE SE
- **COUNTRY**: UNITED STATES
- **STATE**: UTAH
- **COUNTY**: WASHINGTON
- **GEOLOGIC PROVINCE**: HURRICANE 1162500
- **MAP REFERENCE**: HURRICANE 1162500

**SAMPLE DESCRIPTION AND CONDITION**

- **DATE/RECIPIENT**: 1968/09/22
- **WELL DEPTH (M)**: 107
- **DISCHARGE**: 435 L/MI

**WATER ANALYSIS**

- **PH**: 8.2
- **TOTAL DISSOLVED SOLIDS**: 1180
- **ISOTOPES (18/16)**

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**REFERENCE AND IDENTIFICATION**

- **Compiled by**: HUMPHREY, P.
- **Compiler Affiliation**: UTAH GEOLOGICAL AND MINERAL SURVEY
- **Reference**: CORDOVA AND OTHERS: 1972
### Sample Description and Conditions

- **DATE/COLLECTOR:** 1968/10/15
- **TEMPERATURE (°C):** 21
- **WELL DEPTH (M):** 14

### Water Analysis

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### Analysis in mg/L

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<td>Fe(II)⁺⁺</td>
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### Reference and Identification

- **Compiled By:** MURPHY, P.
- **Compiler Affiliation:** UTAH GEOLOGICAL AND MINERAL SURVEY
- **Reference:** CUMCUVA AND OTHERS, 1972
**GEOTHERMAL SAMPLE FILE**

**NAME OF SAMPLE SOURCE:** Snow Spring  
**WELL/SPRING NUMBER:** C-41-16/34BDA-51  
**LOCATION**  
- **COUNTRY:** United States  
- **STATE:** Utah  
- **COUNTY:** Washington  
- **GEOLOGIC PROVINCE:** J  
- **MAP REFERENCE:** St. George 1162500  
**SAMPLE DESCRIPTION AND CONDITIONS**  
- **DATE/COLLECTION:** 1968/08/28  
- **TEMPERATURE (°C):** 21°C  
- **DISCHARGE:** 98  
**WATER ANALYSIS**  
- **SPECIFIC CONDUCTANCE:** 360μS/cm  
**ANALYSIS IN mg/L**  
- **Cl:** 13  
**REFERENCE AND IDENTIFICATION**  
- **COMPILED BY:** Murphy, P.  
- **COMPILER AFFILIATION:** Utah Geological and Mineral Survey  
- **REFERENCE:** Cordova and Others, 1972

---

**GEOTHERMAL SAMPLE FILE**

**NAME OF SAMPLE SOURCE:** Strinham No. 1  
**WELL/SPRING NUMBER:** C-42-15/30000-1  
**LOCATION**  
- **COUNTRY:** United States  
- **STATE:** Utah  
- **COUNTY:** Washington  
- **GEOLOGIC PROVINCE:**  
- **MAP REFERENCE:** St. George 1162500  
**SAMPLE DESCRIPTION AND CONDITIONS**  
- **DATE/COLLECTION:** 1968/10/15  
- **TEMPERATURE (°C):** 27°C  
- **WELL DEPTH (M):** 39.1  
**WATER ANALYSIS**  
- **PH:** 7.8  
- **SPECIFIC CONDUCTANCE:** 4110μS/cm  
- **TOTAL DISSOLVED SOLIDS:** 4030mg/L  
**ANALYSIS IN mg/L**  
- **Ag:** 1  
- **Ca:** 195  
- **Cl:** 36  
- **Cu:** 0  
- **Fe:** 402  
- **H:** 96  
- **Mg:** 504  
- **Na:** 21  
- **K:** 79  
- **HCO₃:** 338  
- **SiO₂:** 129  
**REFERENCE AND IDENTIFICATION**  
- **COMPILED BY:** Murphy, P.  
- **COMPILER AFFILIATION:** Utah Geological and Mineral Survey  
- **REFERENCE:** Cordova and Others, 1972
REFERENCE: COMUDVA AND OTHERS. 1972

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE: TULLIS S.

WELL/SPRING NUMBER: (C=36-15) 708A-1

LOCATION

COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: WASHINGTON
GEOLOGIC PROVINCE: 35
MAP REFERENCE: NEWCASTLE 112400

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS
DATE/DECOLCTOR: 1959/07/07
TEMPERATURE (C): 39.6
MEI DEPTH (M): 700

WATER ANALYSIS

PH: 7.7
SPECIFIC CONDUCTANCE: 15900
TOTAL DISSOLVED SOLIDS: 10400

ANALYSIS IN PPM

AL... CR... Mg... Na... K... Ca... HCO3... Cl...
H... F... NA+... HCO3... Ca++... Fe3+... Mg++... K++... S04++... Na++... 120.
BA... F... NA+... HCO3... Ca++... Fe3+... Mg++... K++... S04++... Na++... 120.
BE... Fe3... O102... 76.

ISOTOPES (O/00)

REFERENCE AND IDENTIFICATION

COMPILED BY: GOODE N.
COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: SANUKEY, 1963

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE: UNNAMED SPRING

WELL/SPRING NUMBER: (C=42-14) 20AB-51

LOCATION

COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: WASHINGTON
GEOLOGIC PROVINCE: 35
MAP REFERENCE: HURRICANE 1162500

SAMPLE DESCRIPTION AND CONDITIONS
DATE/DECOLCTOR: 1968/09/20
TEMPERATURE (C): 21

WATER ANALYSIS

PH: 7.9
SPECIFIC CONDUCTANCE: 16000
TOTAL DISSOLVED SOLIDS: 1600

ANALYSIS IN MG/L

Ag... TH... C03... N
AL... CR... MG... NO... 90.
**DEPARTMENT OF THE INTERIOR**

**U.S. GEOLOGICAL SURVEY**

**GEOLOGY OF THE UNITED STATES**

**EVALUATION FILE**

**NAME OF SAMPLE SOURCE:** UTAH STATE LAND BOARD

**WELL/Spring NUMBER:** (C=41-13)166CD-1

**LOCATION**

**COUNTRY:** UNITED STATES

**STATE:** UTAH

**COUNTY:** WASHINGTON

**GEOLOGIC PROVINCE:** HURRICANE 1162500

**MAP REFERENCE:** UTM LOCATION

**MAPPING LOCALITY INFORMATION**

**REFERENCE AND IDENTIFICATION**

**COMPILED BY:** MURPHY, P.

**REFERENCE AFFILIATION:** UTAH GEOLOGICAL AND MINERAL SURVEY

**REFERENCE:** COHOVAY AND OTHERS, 1972

**COORDINATES**

**LAT/LONG:** 37-13-38 N 113-18-9 W

**UTM ZONE:** 12

**NORTHING:** 4121929

**EASTING:** 244160

**SAMPLE DESCRIPTION AND CONDITIONS**

**DATE/COLECTOR:** 1970/03/25

**TEMPERATURE (C):** 21.5

**WELL DEPTH (M):** 1044

**DISCHARGE:** 385

**WATER ANALYSIS**

**P:** 8.9

**SPECIFIC CONDUCTANCE:** 1270

**TOTAL DISSOLVED SOLIDS:** 998

**CHARGE IMBALANCE (OF):** 2.1

**ANALYSIS IN NL/L**

**Ag:** CO3

**Al:** CR

**Fe:** F

**Na:** MU

**Ca:** NO3

**Cl:** 74

**K:** 4.5

**REFERENCE AND IDENTIFICATION**

**COMPILED BY:** MURPHY, P.

**REFERENCE AFFILIATION:** UTAH GEOLOGICAL AND MINERAL SURVEY

**REFERENCE:** COHOVAY AND OTHERS, 1972

**COORDINATES**

**LAT/LONG:** 37-19-1 N 113-41-4 W

**UTM ZONE:** 12

**NORTHING:** 4135219

**EASTING:** 261946

**GEOCHEMICAL DATA**

**ISOTOPES**

**10/001**

**AG:** CO3

**Al:** CR

**Fe:** F

**Na:** MU

**Ca:** NO3

**Cl:** 74

**K:** 4.5

**REFERENCE AND IDENTIFICATION**

**COMPILED BY:** MURPHY, P.

**REFERENCE AFFILIATION:** UTAH GEOLOGICAL AND MINERAL SURVEY

**REFERENCE:** COHOVAY AND OTHERS, 1972

**COORDINATES**

**LAT/LONG:** 37-19-1 N 113-41-4 W

**UTM ZONE:** 12

**NORTHING:** 4135219

**EASTING:** 261946
REFERENCE AND IDENTIFICATION

COMPILATION: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: MUNDOFF, 1970

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: VIRGIN RIVER
WELL/SPRING NUMBER: (C-42-14)2CCA-51

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: WASHINGTON
GEOLOGIC PROVINCE: 35
MAP REFERENCE: HURRICANE 1162500

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION: 1968/11/10
TEMPERATURE (C): 21

MAID ANALYSIS
SPECIFIC CONDUCTANCE: 1520
ANALYSIS IN MW/L: ISOTOPES (0/00)
CL: 67

REFERENCE AND IDENTIFICATION
COMPILATION: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: COPPDA AND OTHERS, 1972

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE: VIRGIN RIVER, UTAH
LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: WASHINGTON
GEOLOGIC PROVINCE: 35
MAP REFERENCE: HURRICANE 1162500

SAMPLE DESCRIPTION AND CONDITIONS
SAMPLE NUMBER: FIELD NO. = AZ90; LAB NO. = 110
TEMPERATURE (C): 33.5

MAID ANALYSIS
PH: 7.11
TOTAL DISSOLVED SOLIDS: S5600
ANALYSIS IN MG/L: ISOTOPES (0/00)
AG: 11.00
AL: 7.15
K: 1.28
Mg: 1.45
Mn: 0.32
Fe: 0.07
Ca: 11.00
MnO: 0.57
Pu4+: 0.06

QUALIFICATION FIELD: Pu4+ CALCULATED FROM P1 Fe+F+H+Pu4+5102 REPORTED IN PPM.
GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE: WARM SPRING
WELL/SPRING NUMBER: (C-42-15) 14808-51

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: WASHINGTON
GEOLOGIC PROVINCE: 35
MAP REFERENCE: ST. GEORGE 1162500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1965/10/16
TEMPERATURE (C): 24.0

WATER ANALYSIS
SPECIFIC CONDUCTANCE: 467.0
ANALYSIS
CL: 8

REFERENCE AND IDENTIFICATION
COMPILED BY: GOODE, H.
COMPILED AFFILIATION: ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE: SWANSON AND OTHERS, 1977

---

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE: WARNER VALLEY
WELL/SPRING NUMBER: (C-42-14) 32488-51

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: WASHINGTON
GEOLOGIC PROVINCE: 35
MAP REFERENCE: HURRICANE 1162500

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1965/11/04
TEMPERATURE (C): 24.0

WATER ANALYSIS
SPECIFIC CONDUCTANCE: 3610
TOTAL DISSOLVED SOLIDS: 5400
CHARGE BALANCE (% DIFF): 0.3
ANALYSIS IN MU/L

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COMPILED BY: GOODE, H.
COMPILED AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: CORDOVA AND OTHERS, 1972
GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... COW WASH
WELL/SPRING NUMBER..... (0-30-11)SCBC
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COUNTY: WEBER
GEOLIGIC PROVINCE: PLAIN CITY SW 1/24000
MAP REFERENCE: PLAIN CITY SW 1/24000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1968/09/05
TEMPERATURE (C): 34
WELL DEPTtH (M): 219
WATER ANALYSIS
SPECIFIC CONDUCTANCE: 650
TOTAl DISSOLVED SOLIDS: 650
ANALYSIS IN MG/L
REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: ROLKE AND WADELL, 1972A

GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE: GSLM & C CORP., NO. 13
WELL/SPRING NUMBER: (H-7-3) 32 C66-1
LOCATION
COUNTY: UNITED STATES
STATE: UTAH
WELL DEPTtH (M): 219
WATER ANALYSIS
P: 7.8
SPECIFIC CONDUCTANCE: 713
TOTAL DISSOLVED SOLIDS: 458
WATER ANALYSIS IN MG/L
AS: 0.46
CO3: N
H+: 0.8
F+: 0.8
SIO2: 35
CA: 8
MgO: 10
Al: 0.1
Cl: 87

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: ROLKE AND WADELL, 1972A

GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE: GSLM & C CORP., NO. 14
WELL/SPRING NUMBER: (H-7-3) 31 AAC-1

ISOTOPES (o/o)

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: ROLKE AND WADELL, 1972A

GEOTHERMAL SAMPLE FILE
NAME OF SAMPLE SOURCE: GSLM & C CORP., NO. 14
WELL/SPRING NUMBER: (H-7-3) 31 AAC-1

REFERENCES AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: ROLKE AND WADELL, 1972A

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: ROLKE AND WADELL, 1972A

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: ROLKE AND WADELL, 1972A

REFERENCE AND IDENTIFICATION
COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: ROLKE AND WADELL, 1972A
LOCATION
COUNTRY............. UNITED STATES
STATE............... UTAH
COUNTY.............. WEBER
GEOLOGIC PROVINCE... 35
MAP REFERENCE....... PLAIN CITY SW 1124000
OTHER LOCALITY INFORMATION LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR...... 1969/09/27
TEMPERATURE (C)...... 39.0
WELL DEPTH (M)....... 246.3
DISCHARGE........... 212.0 L/MIN

WATER ANALYSIS
pH................... 8.1
SPECIFIC CONDUCTANCE... 785.6
TOTAL DISSOLVED SOLIDS... 462.8
CHANGE IMBANCE (G DIFF).... 2.6
ANALYSIS IN MILLILETERS
Ag...... 0.8
Cl...... 146.5
Ca...... 504.0
Na...... 148.0
Mg...... 4.4
HCO3..... 305.0
K...... 9.4
HEXIDENCE AND IDENTIFICATION
COMPILED BY......... GOODE, H.
COMPANY AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............ ROLFE AND MADDEN, 1972A

ISOTOPES (G/MOL)

RECORD 00614
GEOCHEMICAL FILE
NAME OF SAMPLE SOURCE... OSWALD C CORP. NO. 15
WELL/SWELL NUMBER..... (B= 7 = 3)1AAC=2
LOCATION
COUNTRY............. UNITED STATES
STATE............... UTAH
COUNTY.............. WEBER
GEOLOGIC PROVINCE... 35
MAP REFERENCE....... PLAIN CITY SW 1124000
OTHER LOCALITY INFORMATION LOCATION APPROXIMATE
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR...... 1969/09/10
TEMPERATURE (C)...... 39.0
WELL DEPTH (M)....... 246.3
DISCHARGE........... 212.0 L/MIN
OTHER SAMPLE INFORMATION, BOTTOMED IN RIMMUCK
WATER ANALYSIS
pH................... 8.2
SPECIFIC CONDUCTANCE... 1490
TOTAL DISSOLVED SOLIDS... 980.7
ANALYSIS IN MILLILETERS
Ag...... 5.4
Al...... 61
Cl...... 5102.6
CO3...... 39701.9

ISOTOPES (G/MOL)
**SAMPLE FILE**

**NAME OF SAMPLE SOURCE**: GSLM & C CORP. NO. 6

**WELL/SPRING NUMBER**: B 7-31 J048-1

**LOCATION**
- **COUNTRY**: UNITED STATES
- **STATE**: UTAH
- **COUNTY**: WEBER
- **GEOLOGIC PROVINCE**: 35
- **MAP REFERENCE**: PLAIN CITY SW 1124000

**SAMPLE DESCRIPTION AND CONDITIONS**
- **DATE/CollectON**: 1969/12/17
- **WELL DEPTH (M)**: 180
- **DISCHARGE**: 110 L/MIN

**WATER ANALYSIS**
- **pH**: 7.7
- **SPECIFIC CONDUCTANCE**: 772 µS/cm
- **TOTAL DISSOLVED SOLIDS**: 491 mg/L

**ANALYSIS IN MG/L**

<table>
<thead>
<tr>
<th>Ion</th>
<th>Concentration (mg/L)</th>
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<tbody>
<tr>
<td>Ca</td>
<td>190</td>
</tr>
<tr>
<td>Mg</td>
<td>1.9</td>
</tr>
<tr>
<td>Cl</td>
<td>194</td>
</tr>
<tr>
<td>Fe</td>
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<td>F</td>
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<tr>
<td>CO2</td>
<td>399</td>
</tr>
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<td>SO4</td>
<td>0.2</td>
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**REFERENCE AND IDENTIFICATION**
- **COMPILED BY**: BOOKE, H.
- **COMPILED AFFILIATION**: UTAH GEOLOGICAL AND MINERAL SURVEY
- **REFERENCE**: HOLKE AND WADDELL, 1972A

---

**SAMPLE FILE**

**NAME OF SAMPLE SOURCE**: JACOBS, R. M.

**WELL/SPRING NUMBER**: 1B-6-31047-2

**LOCATION**
- **COUNTRY**: UNITED STATES
- **STATE**: UTAH
- **COUNTY**: WEBER
- **GEOLOGIC PROVINCE**: 35
- **MAP REFERENCE**: PLAIN CITY SW 1124000

**SAMPLE DESCRIPTION AND CONDITIONS**
- **DATE/CollectON**: 1969/05/14
- **TEMPERATURE (°C)**: 22
- **WELL DEPTH (M)**: 224
- **DISCHARGE**: 53 L/MIN

**WATER ANALYSIS**
- **pH**: 8.2
- **SPECIFIC CONDUCTANCE**: 741 µS/cm
- **TOTAL DISSOLVED SOLIDS**: 453 mg/L
- **CHARGE IMBALANCE (A DIFF)**: 1.5

---

**REFERENCE**

- **COMPILED BY**: BOOKE, H.
- **COMPILED AFFILIATION**: UTAH GEOLOGICAL AND MINERAL SURVEY
- **REFERENCE**: HOLKE AND WADDELL, 1972A
**Analysis in mg/L**

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<tr>
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<tbody>
<tr>
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<td>50.4</td>
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<tr>
<td>Br</td>
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<td>HCO₃</td>
<td>324.5</td>
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**Geochemical and Identification**

Compiled by: P. Murphy

Compiler Affiliation: Utah Geological and Mineral Survey

Reference: Bolek and Wadell: 1972a

---

**Geochemical Data File**

**Name of Sample Source:** Jacob, R. M.

**Well/Spring Number:** 19-6-315CC-1

**Location**

- **Country:** United States
- **State:** Utah
- **County:** Weber
- **Geologic Province:** 35
- **Map Reference:** Plain City 5124000

**Sample Description and Conditions**

- **Date/Collector:** 1990/05/14
- **Temperature (C):** 25
- **Well Depth (m):** 155

**Radioactivity**

- **PM:** 7.7
- **Specific Conductance:** 648

**Analysis in mg/L**

<table>
<thead>
<tr>
<th>Ion</th>
<th>Concentration</th>
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</thead>
<tbody>
<tr>
<td>Na</td>
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<tr>
<td>Ca</td>
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<tr>
<td>Mg</td>
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<td>Cl</td>
<td>50.4</td>
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<tr>
<td>HCO₃</td>
<td>324.5</td>
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</tbody>
</table>

**Geochemical and Identification**

Compiled by: P. Murphy

Compiler Affiliation: Utah Geological and Mineral Survey

Reference: Bolek and Wadell: 1972a

---

**Geochemical Data File**

**Name of Sample Source:** Maukador Acfi

**Well/Spring Number:** 19-6-319AA-1

**Location**

- **Country:** United States
- **State:** Utah
- **County:** Weber
- **Geologic Province:** 35
- **Map Reference:** Ogden Bay 1124000

**Sample Description and Conditions**

- **Date/Collector:** 1990/05/14
- **Temperature (C):** 25
- **Well Depth (m):** 70
- **Discharge:** 500

**Geochemical Data File**

**Name of Sample Source:** Jacob, R. M.

**Well/Spring Number:** 19-6-315CC-1

**Location**

- **Country:** United States
- **State:** Utah
- **County:** Weber
- **Geologic Province:** 35
- **Map Reference:** Plain City 5124000

**Sample Description and Conditions**

- **Date/Collector:** 1990/05/14
- **Temperature (C):** 25
- **Well Depth (m):** 155

**Radioactivity**

- **PM:** 7.7
- **Specific Conductance:** 648

**Analysis in mg/L**

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<td>Cl</td>
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<td>HCO₃</td>
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NAME OF SAMPLE SOURCE... OGDEN HOT SPRINGS
WELL/SPRING NUMBER...... 1B- 6-1123CD-5

LOCATION
COUNTRY.......... UNITED STATES
STATE.............. UTAH
COUNTY............ WEBER
GEOLOGIC PROVINCE... 35
MAP REFERENCE...... OGDEN 1124000

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION...... 1951/11/03
TEMPERATURE (°C).... 56.3

MAPS ANALYSIS
PH............. 7.4
TOTAL DISSOLVED SOLIDS... 8020.
CHARGE IMBALANCE % DIFF.... 0.2

ANALYSIS IN PPM

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<td>CO2</td>
<td>407.</td>
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REFERENCES AND IDENTIFICATION

COMPILED BY.......... MURPHY, P.
COMPILE AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............. MUNDONFF, 1970

NAME OF SAMPLE SOURCE... OGDEN HOT SPRINGS
WELL/SPRING NUMBER...... 1B- 6-1123CD-5

LOCATION
COUNTRY.......... UNITED STATES
STATE.............. UTAH
COUNTY............ WEBER
GEOLOGIC PROVINCE... 35
MAP REFERENCE...... OGDEN 1124000

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION...... 1943/04/27

MAPS ANALYSIS
SPECIFIC CONDUCTANCE... 14700.
TOTAL DISSOLVED SOLIDS... 8650.

ANALYSIS IN PPM

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<td>Ca</td>
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REFERENCES AND IDENTIFICATION

COMPILED BY.......... MURPHY, P.
COMPILE AFFILIATION... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE............. MUNDONFF, 1970
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**WATER ANALYSIS**

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<th>Value</th>
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**ISOTOPES**

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<td>H219O</td>
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**REFERENCE**

Compiled by: MURPHY, P.
Affiliation: UTAH GEOLOGICAL AND MINERAL SURVEY
Reference: MUNDORFF, 1970

---

**GEOThERM SAMPLE FILE**

<table>
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<th>Name of Sample Source</th>
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**Location**

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<td>OGDEN HOT SPRINGS</td>
<td>41°14'14&quot;N 111°55'42&quot;W</td>
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**WATER ANALYSIS**

<table>
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**ISOTOPES**

<table>
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<tr>
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<td>H218O</td>
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<td>Parameter</td>
<td>Value</td>
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<tr>
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<td>-------------</td>
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<td>Chloride (Cl)</td>
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**Reference and Identification**

Compiled by: Murphy, P.
Compiler Affiliation: Utah Geological and Mineral Survey
Reference: Walke and Waydeel; 1972A

**Geothermal Sample File**

**Name of Sample Source**: Patio Spring

**Location**

Country: United States
State: Utah
County: Weber
GEOLOGIC PROVINCE: 35

**Sample Description and Conditions**

Date/Collector: 1952/08/16
Point of Collection: Collected 1000 ft. below outlet.
Temperature (°C): 20
Discharge: 6.0 ft³/s

**Water Analysis**

pH: 8.1
Specific Conductance: 247 mS/cm

<table>
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<tbody>
<tr>
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<td>OH</td>
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**Isotopes (O/Na)**

**Reference and Identification**

Compiled by: Murphy, P.
Compiler Affiliation: Utah Geological and Mineral Survey
Reference: Nooyan; 1972

**Geothermal Sample File**

**Name of Sample Source**: Penman E.

**Location**

Country: United States
State: Utah
County: Weber
GEOLOGIC PROVINCE: 35

**Sample Description and Conditions**

Date/Collector: 1948/08/29
Temperature (°C): 77
Well Depth (ft): 396
Discharge: 64 L/min

**Water Analysis**

pH: 8.0
Specific Conductance: 171 mS/cm
Total Dissolved Solids: 238 mg/L
Charge Imbalance (% Diff): 0.3

**Coordinates**

LAT/LONG: 41°18.92 N 112°06.4 W
UTM ZONE: 12
NORTHING: 4559342
EASTING: 406955
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<th>CO3, N</th>
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<th>Na</th>
<th>SiO2</th>
<th>K</th>
<th>Cl</th>
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**Geotherm Sample File**

- **Name of Sample Source**: PREVEUDEL, D.
- **Well/Spring Number**: 18-6-21320DC-2

**Location**

- **Country**: UNITED STATES
- **State**: UTAH
- **County**: WEBER
- **Geologic Province**: 35
- **Map Reference**: NOY 124000

**Sample Description and Conditions**

- **Date/Collection**: 1969/05/07
- **Temperature (C)**: 20
- **Well Depth (m)**: 200

**Notes**

- **Reference and Identification**
  - **Compiled By**: MURPHY, P.
  - **Compiler Affiliation**: UTAH GEOLOGICAL AND MINERAL SURVEY
  - **Reference**: ROLKE AND WADDELL, 1972A

**Geotherm Sample File**

- **Name of Sample Source**: RHIEU, T. W.
- **Well/Spring Number**: 18-5-311500A-1

**Location**

- **Country**: UNITED STATES
- **State**: UTAH
- **County**: WEBER
- **Geologic Province**: 35
- **Map Reference**: OGDEN BAY 1124000

**Notes**

- **Reference and Identification**
  - **Compiled By**: MURPHY, P.
  - **Compiler Affiliation**: UTAH GEOLOGICAL AND MINERAL SURVEY
  - **Reference**: ROLKE AND WADDELL, 1972A
OTHER LOCALITY INFORMATION LOCATION APPROPRIATE

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR.............. 1953/09/15
TEMPERATURE (°C)............. 22.2
WELL DEPTH (M)............... 198.

WATER ANALYSIS
PH............................. 8.5
SPECIFIC CONDUCTANCE........ 386.
TOTAL DISSOLVED SOLIDS...... 220.
CHLORIDE IMBALANCE (% DIFF)... 2.2

ANALYSIS IN PPM
AG.... CO3.... 11.
AL.... CR....
As.... 0.31
FE.... FET(II)....
Ca.... 18.
Mg.... 6.2
Cl.... 25.

REFERENCE AND IDENTIFICATION
COMPILED BY.................. MURPHY, P.
COMPILER AFFILIATION....... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.................... FETH AND OTHERS, 1966

WATER ANALYSIS
PH............................. 8.1
SPECIFIC CONDUCTANCE........ 386.
ANALYSIS IN MWL
Ca.... CO3.... N
Cl....

REFERENCE AND IDENTIFICATION
COMPILED BY.................. MURPHY, P.
COMPILER AFFILIATION....... UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE.................... RULKE AND WADDELL, 1972

RECORD 00631
WELL/SPRING NUMBER: (9 = 5) 21C8B-2

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: WEBER
GEOLOGIC PROVINCE: FREMONT ISLAND 1124000
MAP REFERENCE: FREMONT ISLAND 1124000

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1964/11/02
TEMPERATURE (C): 20
WELL DEPTH (M): 52
DISCHARGE: 7.0 L/MIN

WATER ANALYSIS
PH: 7.4
SPECIFIC CONDUCTANCE: 5710
TOTAL DISSOLVED SOLIDS: 3600

ANALYSIS IN MUL
AL... CR... CO3... N
AG... F... Mg... 60
H... Na... 990
HE... Fe(II) Fe(III) 132
CA... HC03... 8.1
KL... 140

QUALIFICATION FIELD: ADJACENT WELL DRAWS WATER OF 19 DEG. C.
REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: ROLKE AND ADDELLE 1972A

ISOTOPES (0/80)

RECORD: 00636

GEOCHEMICAL FILE
NAME OF SAMPLE SOURCE: STRATFORD, G. E.
WELL/SPRING NUMBER: (9 = 5) 21C8B-2

LOCATION
COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: WEBER
GEOLOGIC PROVINCE: FREMONT ISLAND 1124000

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR: 1959/11/18
TEMPERATURE (C): 20
WELL DEPTH (M): 171

WATER ANALYSIS
PH: 7.3
SPECIFIC CONDUCTANCE: 2440
TOTAL DISSOLVED SOLIDS: 1260

ANALYSIS IN MUL
Al... Cr... Mg... 42
H... Na... 5102
Rb... Na+K 271
He... Fe(II) Fe(III) 132
Ca... HC03... 163
Na... 504
CL... 8.3

ISOTOPES (0/80)

RECOD: 00636

GEOCHEMICAL FILE 101 0017171
REFERENCE AND IDENTIFICATION
COMPILER
GOODE, H.
COMPILER AFFILIATION
UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE
SMITH: 1961

GEOCHEM SAMPLE FILE
NAME OF SAMPLE SOURCE
UTAH BY PRODUCTS
WELL/SPRING NUMBER
9-6 1292001
LOCATION
COUNTRY
UNITED STATES
TOWNSHIP-RANGE
06N 001W 29 NW OF NW SW
COORDINATES
LAT/LONG
41-13-50 N 111-59-15 W
UTM ZONE
12
NORTHING
4563997.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION
1960/12/27
TEMPERATURE (C)
24.0
INLET DEPTH (M)
287.
DISCHARGE
1136. L/MIN
WATER ANALYSIS
SPECIFIC CONDUCTANCE
3150.
TOTAL DISSOLVED SOLIDS
1760.
CHARGE IMBALANCE (% DIFF)
3.5
ANALYSIS IN MG/L
AG... CO3... 5.
AL... CH... 31.
H... F... 476.
RE... HCO3... 504.
CA... 96.
CL... 897.
CO2... 41.

REFERENCE AND IDENTIFICATION
COMPILER
MURPHY, P.
COMPILER AFFILIATION
UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE
ROLKE AND WADDELL: 1972A

GEOCHEM SAMPLE FILE
NAME OF SAMPLE SOURCE
UTAH HOT SPRINGS
WELL/SPRING NUMBER
9-7 211400A-51
LOCATION
COUNTRY
UNITED STATES
TOWNSHIP-RANGE
07N 002W 1% NE OF SW SE
COORDINATES
LAT/LONG
41-20-32 N 112-01-06 W
UTM ZONE
12
NORTHING
4576891.

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION
1961/11/03
WATER ANALYSIS
SPECIFIC CONDUCTANCE
37200.
TOTAL DISSOLVED SOLIDS
25200.
CHARGE IMBALANCE (% DIFF)
0.9
ANALYSIS IN PPM

REFERENCE AND IDENTIFICATION
COMPILER
GOODE, H.
COMPILER AFFILIATION
UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE
SMITH: 1961
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**Isotopes (9/80)**

**Reference and Identification**

Compiled by: Murphy, P.

Compiler Affiliation: Utah Geological and Mineral Survey

Reference: HUNDORFF, 1970

---

**Sample Selection and Conditions**

**Location**

Country: United States

State: Utah

County: Weber

Geologic Province: Plain City

**Date/Collections**

1958/04/03

**Temperature (C)**

97.2

**Water Analysis**

**pH**

7.3

**Specific Conductance**

34300

**Total Dissolved Solids**

22900

---

**Record 00640**

**Geothermal Data File**

Name of Sample Source: Utah Hot Springs

Well/Spring Number: H-7-2140CA-51

---

**Record 00639**

**Geothermal Data File**

Name of Sample Source: Utah Hot Springs

Well/Spring Number: (H-7-2)140CA-51

---
DATE/COLLECTION: 1994/03/02

WATER ANALYSIS

SPECIFIC CONDUCTANCE: 20300.
TOTAL DISSOLVED SOLIDS: 18500.
CHANGE IN SOLIDS (G/G): 24.

ANALYSIS IN PPM

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REFERENCE AND IDENTIFICATION

COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HUDONOFF, 1970

---

GEOThERM SAMPLE FILE

NAME OF SAMPLE SOURCE: UTAH HOT SPRINGS
WELL/SPRING NUMBER: 87-7 2114OCA 6T1

LOCATION

COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: WEBER
GEOLOGIC PROVINCE: MUGDEEN 1124000
MAP REFERENCE: PLAIN CITY 1124000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION: 1991/11/18

WATER ANALYSIS

ANALYSIS IN PPM

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REFERENCE AND IDENTIFICATION

COMPILED BY: MURPHY, P.
COMPILER AFFILIATION: UTAH GEOLOGICAL AND MINERAL SURVEY
REFERENCE: HUDONOFF, 1970

---

GEOThERM SAMPLE FILE

NAME OF SAMPLE SOURCE: WASHINGTON FACE
WELL/SPRING NUMBER: 8 5 11716C 1

LOCATION

COUNTRY: UNITED STATES
STATE: UTAH
COUNTY: WEBER
GEOLOGIC PROVINCE: 35
MAP REFERENCE: UGDEEN 1124000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION: 1961/04/20
TEMPERATURE (C): 21.

---
**WELL DEPTH (M):** 277
**DISCHARGE:** 7192 L/Min
**OTHER SAMPLE INFORMATION:** OTHER SIMILAR ANALYSES AVAILABLE

### WATER ANALYSIS

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**REFERENCE AND IDENTIFICATION**

- **COMPILER:** HURPHY, P.
- **COMPILER AFFILIATION:** UTAH GEOLOGICAL AND MINERAL SURVEY
- **REFERENCE:** RULKE AND WADDELL, 1972A

---

**GEOHERM SAMPLE FILE**

- **NAME OF SAMPLE SOURCE:** WBMCU RIVEROADE
- **WELL/SPRING NUMBER:** 18-5-1114AAB-1

### LOCATION

- **STATE:** UTAH
- **COUNTY:** Weber
- **GEOLOGIC PROVINCE:** 34
- **MAP REFERENCE:** Q44W113900
- **OTHER LOCALITY INFORMATION:** LOCATION APPROXIMATE

### SAMPLE DESCRIPTION AND CONDITIONS

- **DATE/RECEIVER:** 1968/11/15
- **TEMPERATURE (C):** 21
- **WELL DEPTH (M):** 223
- **DISCHARGE:** 7192, L/Min

### OTHER SAMPLE INFORMATION:

- **OTHER SIMILAR ANALYSES AVAILABLE:**

### ISOTOPES (O/001)

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**REFERENCE AND IDENTIFICATION**

- **COMPILER:** HURPHY, P.
- **COMPILER AFFILIATION:** UTAH GEOLOGICAL AND MINERAL SURVEY
- **REFERENCE:** RULKE AND WADDELL, 1972A
## APPENDIX A

Index to GEOThERM's sample file for the state of Utah. This computer generated appendix contains some truncated fields. The index is sorted by county and name of source. TNS = Township, RNG = Range, Sect. = section, I.D. = GEOThERM record identifier, Temp. = Temperature °C.

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BEAVER US BLM
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BEAVER WILLOW
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BOX ELDER BLUE CREEK SPRINGS
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BOX ELDER JEPPERSON
BOX ELDER KIMBER (ROSE) SPRING
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BOX ELDER KING, L.
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BOX ELDER LARSON, C. D.
BOX ELDER LDS CHURCH
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BOX ELDER LEE, J. E.
BOX ELDER LITTLE MOUNTAIN WARM SPRING
BOX ELDER LITTLE MOUNTAIN WARM SPRING
BOX ELDER NATIONAL PARK SERVICE
BOX ELDER NATIONAL PARK SERVICE
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DIG WARM SPRINGS

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DIG WARM SPRINGS

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DIG WARM SPRINGS

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DIG WARM SPRINGS

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BLUE LAKE SPRING

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BUREAU OF LAND MANAGEMENT (KAISER FM20)

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BUREAU OF LAND MANAGEMENT (KAISER K55)

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DAVIS, R.

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DBW NO. 1

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DBW NO. 3

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DESERET LIVESTOCK

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DESERET LIVESTOCK SD.

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DESERET LIVESTOCK SOUTH

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GRANTSVILLE WARM SPRINGS

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HARWOOD, C.

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KAISER DBW 8

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KAISER DBW 9

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KAISER FWA

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KAISER WELL DBW 7

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KENHECOTT COPPER CORP.

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LINDON, HELD

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MORGANS WARM SPRING

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MORGANS WARM SPRING

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MORTENSEN, P.

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REDLUM

TOOELE

RUSSELLS WARM SPRING

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SO. HORSESHOE

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TOOCEL CITY

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UNKNOWN

TOOELE

UNKNOWN SPRING

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UTAH FISH AND GAME

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WILSON HOT SPRINGS

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WORTHINGTON, J. R.

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WORTHINGTON, J. R.

UINTAH

COMPOSITE AVI-3

UINTAH

COMPOSITE AVI-2, 3, 4, 5, 7

UINTAH

COMPOSITE ER 1, 2, 3, 4, 5, 6, 7

UINTAH

COMPOSITE R: LACY 3 & 4

UINTAH

CRAIN, GRIFFITH, T. E. HALL 19

UINTAH

GARNER #1 BOESCHE

UINTAH

GARNER #1 BOESCHE

UINTAH

HALL, T. E. #55

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VOLLANDSMITH AND TRAVIS

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PAM AH PETROL

UINTAH

PAM AH PETROL NO. 1 GENTRY

UINTAH

PAM-AH PETROL ER-1

UINTAH

PAM-AH PETROL ER-10

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### APPENDIX B

Index to GEOTHERM sample file for the state of Utah 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.

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APPENDIX C

Index to GEOTHERM sample file for the state of Utah 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 preceding temperature. I.D. = GEOTHERM record identifier. Temp. = temperature °C.

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41-08.22 N 112-10.95 W SOUTHWEST HOOPER WARM SPRINGS
41-34.62 N 112-14.10 W STINKING HOT SPRINGS
41-34.62 N 112-14.10 W STINKING HOT SPRINGS
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41-59.88 N 112-53.04 W TAYLOR, C.
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41-59.88 N 112-53.04 W TAYLOR, C.
41-59.88 N 112-53.04 W TOLMAN, R. W.
41-45.42 N 112-23.94 W TOWN OF HOWELL
41-57.82 N 112-09.08 W TOWN OF PLYMOUTH
41-51.18 N 112- 9.54 W UDY HOT SPRINGS
41-56.40 N 112-09.37 W UDY HOT SPRINGS
41-56.40 N 112-09.37 W UDY HOT SPRINGS
41-56.40 N 112-09.37 W UDY HOT SPRINGS
41-51.18 N 112- 9.30 W UDY HOT SPRINGS (INDIAN POOL)
41-56.52 N 112-09.37 W UDY HOT SPRINGS (MORNING GLORY POOL)
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41-40.32 N 112-15.60 W UNNAMED SPRING
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41-17.13 N 112-10.97 W WAVEY, S. E.
41-21.66 N 112- 3.66 W WELLS & LARKIN
41-25.44 N 112- 4.08 W WILLARD BAY GUN CLUB
41-49.60 N 113-15.60 W CARTER, L. G.
41-49.50 N 113-15.60 W CARTER, L. G.
41-48.48 N 113-19.68 W CARTER, M. R.
41-49.92 N 113-39.18 W HEAD SPRING
41-33.84 N 113-57.24 W KIMBER (ROSE) SPRING
41-33.24 N 113-54.66 W KIMBER, B. C.
41-6.48 N 113-23.10 W L. M. KELLER CORP. WEL #2
41-49.20 N 113-18.60 W LARSON, C. D.
41-49.58 N 113-23.46 W MCGAIN, R. R.
41-49.08 N 113-19.54 W RICHARDSON, E. M.
41-34.66 N 113-54.54 W TANNER, MERLIN
41-41.16 N 113-59.92 W WARMHURST, M.
41-36.78 N 113-36.70 W WARM SPRING #2
41-43.48 N 113-36.18 W WARM SPRING 1
42- 0.00 N 112-52.80 W LEE, J. E.
42- 0.00 N 112-52.80 W LEE, J. E.
APPENDIX D

Sources for the records in the GEOTHERM sample file for Utah. Each reference is preceded by the abbreviated reference (called CODE) used in the sample file (Table 1). Entries in this computer-generated appendix are sorted by CODE. Those CODES which begin and end with "*" are for references which were unpublished data and have entries in this appendix. Unpublished CODES will precede those for published sources.

CODE = *PARRY, 1976*

*PARRY, W. T., 1976, UNIVERSITY OF UTAH, SALT LAKE, VERBAL COMMUNICATION TO COSNER AND APPS, OCT. 12.

CODE = *WITHAM AND REED, 1976*

*WITHAM, R., AND REED, M., 1976, GEOTHERMAL WELLS IN THE UNITED STATES: U.S. GEOLOGICAL SURVEY, 31 P.

CODE = BAKER, 1970


CODE = BAKER, 1974


CODE = BJORKLUND AND MCGREEVY, 1973


CODE = BJORKLUND AND OTHERS, 1977


CODE = BJORKLUND, 1967

CODE = BOLKE AND PRICE, 1972

BOLKE, E. L., AND PRICE, DON, 1972, HYDROLOGIC RECONNAISSANCE OF THE BLUE CREEK VALLEY AREA, BOX ELDER COUNTY, UTAH: UTAH DEPARTMENT OF NATURAL RESOURCES TECHNICAL PUBLICATION NO. 37, 38 P.

CODE = BOLKE AND WADDELL, 1972A


CODE = BOLKE AND WADDELL, 1972B


CODE = CARPENTER AND OTHERS, 1964


CODE = CARPENTER AND YOUNG, 1963


CODE = CONROY AND FIELDS, 1977


CODE = CORDOVA AND OTHERS, 1972

CORDOVA, R. M., SANDBERG, G. W., AND MCCONKIE, WILSON, 1972, GROUND-WATER CONDITIONS IN THE CENTRAL VIRGIN RIVER BASIN, UTAH: UTAH DEPARTMENT OF NATURAL RESOURCES TECHNICAL PUBLICATION NO. 40, 64 P.

CODE = CORDOVA, 1969

CODE = COSNER AND APPS, 1978


CODE = DENNIS AND OTHERS, 1946

DENNIS, P. E., MAXEY, G. B., AND THOMAS, H. E., 1946, GROUND WATER IN PAYANT VALLEY, MILLARD COUNTY, UTAH: UTAH DEPARTMENT OF NATURAL RESOURCES TECHNICAL PUBLICATION NO. 3, 96 P.

CODE = DOYURAN, 1972

DOYURAN, VEDAT, 1972, GEOLOGY AND GROUND-WATER RESOURCES OF OGDEN VALLEY, UTAH: PH. D. THESIS, UNIVERSITY OF UTAH, 135 P.

CODE = FELTIS, 1966

FELTIS, R. D., 1966, WATER FROM BEDROCK IN THE COLORADO PLATEAU OF UTAH: UTAH DEPARTMENT OF NATURAL RESOURCES TECHNICAL PUBLICATION NO. 15, 79 P.

CODE = FELTIS, 1967

FELTIS, R. D., 1967, GROUND-WATER CONDITIONS IN CEDAR VALLEY, UTAH: UTAH DEPARTMENT OF NATURAL RESOURCES TECHNICAL PUBLICATION NO. 16, 31 P.

CODE = FETH AND OTHERS, 1966


CODE = GATES, 1963

GATES, J. S., 1963, SELECTED HYDROLOGIC DATA, TOOELE VALLEY, TOOELE COUNTY, UTAH: U.S. GEOLOGICAL SURVEY, UTAH BASIC-DATA REPORT NO. 7, 23 P.

CODE = GOODE AND FELTIS, 1962

GOODE, H. D., AND FELTIS, R. D., 1962, WATER PRODUCTION FROM OIL WELLS OF THE UINTA BASIN, UINTAH AND DUCHESNE COUNTIES, UTAH: UTAH WATER RESOURCES BULLETIN NO. 1, 32 P.

CODE = GOODE, 1978

CODE = HELY AND OTHERS, 1967


CODE = HELY AND OTHERS, 1968


CODE = HOOD AND OTHERS, 1969


CODE = HOOD AND OTHERS, 1976


CODE = HOOD AND PRICE, 1970

HOOD, J. W., AND PRICE, DON, 1970, HYDROLOGIC RECONNAISSANCE OF GROUSE CREEK VALLEY, BOX ELDER COUNTY, UTAH: UTAH DEPARTMENT OF NATURAL RESOURCES TECHNICAL PUBLICATION NO. 29, 54 P.

CODE = HOOD AND RUSH, 1965


CODE = HOOD AND WADDELL, 1968

HOOD, J. W., AND WADDELL, K. M., 1968, HYDROLOGIC RECONNAISSANCE OF SKULL VALLEY, TOOELE COUNTY, UTAH: UTAH DEPARTMENT OF NATURAL RESOURCES TECHNICAL PUBLICATION NO. 18, 57 P.

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