

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ARIZONA

Basic data for thermal springs and wells
as recorded in GEOTHERM

By

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Open-File Report 83-427

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

INTRODUCTION

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

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

GEO THERM INDEXES

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

Appendix A (p. 180-185) is sorted by the county name and the name of the source. Also given are latitude, longitude (both use decimal minutes), township, range, section, GEO THERM record identifier, and temperature ($^{\circ}\text{C}$). 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. 186-191) is sorted by township, range, and section. Also given are name of source, GEOTHERM record identifier, and temperature ($^{\circ}\text{C}$). Records missing items used for sorting will be listed first.

Appendix C (p. 192-198) 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 ($^{\circ}\text{C}$). Records missing items used for sorting will be listed first. Numbers with blank in the same position as zero will be given first.

GEOTHERM SAMPLE FILE

GEOTHERM sample file contains 314 records for Arizona (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-milli-equivalents) 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 Arizona published as of December, 1981. However, no claim is made for completeness, and published sources have probably been missed. About 14% 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.

GEO THERM BIBLIOGRAPHY

A bibliography is given in Appendix D (p. 199-200). 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 GEO THERM record are also described in greater detail in Appendix D and are listed ahead of published sources.

ACKNOWLEDGEMENTS

Contributions and support to GEO THERM 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 Arizona were prepared by the staff of either the Arizona Bureau of Geology and Mineral Technology or the U.S. Geological Survey.

REFERENCES CITED

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

TABLE 1

State of Arizona: 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.

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.

RECORD 00001

GEOTHERM FILE 10: 0018102

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... HOOKER'S HOT SPRING

WELL/SPRING NUMBER... 13S-21E-05-AA

LOCATION

COUNTRY... UNITED STATES

STATE... ARIZONA

COUNTY... COCHISE

GEOLOGIC PROVINCE..

MAP REFERENCE.....

OTHER LOCALITY INFORMATION: WINCHESTER MTS. 1162500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 52.5

WATER ANALYSIS

PH..... 8.98

TOTAL DISSOLVED SOLIDS... 252.

CHARGE IMBALANCE (% DIFF)... 6.0

ANALYSIS IN PPM

AG... L 0.07

AL... L 1.10

AS... 0.019

AU... L 0.12

BA... L 0.2

BF... L 0.16

HI... L 1.2

CA... L 109.8

CA+MG... 0.0007

CU... 0.4

CL... 0.4

CO... 0.4

K... 0.4

QUALIFICATION FIELD.....

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... SWANBERG AND OTHERS, 1977

COORDINATES

LAT/LONG... 32-20.2 N 110-14.3 W

UTM ZONE... 12

NORTHING... 579113.

571673.

ISOTOPES (02001)

SE... 0.002

SI02... 44.48

S04... 8.1

SH... L 0.02

RECORD 00002

GEOTHERM FILE 10: 0002939

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... HOOKER'S HOT SPRINGS

WELL/SPRING NUMBER... 13S-21E-06-AAC

LOCATION

COUNTRY... UNITED STATES

STATE... ARIZONA

COUNTY... COCHISE

GEOLOGIC PROVINCE..

MAP REFERENCE.....

OTHER LOCALITY INFORMATION: WINCHESTER MTS. 1162500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 51.5

DISCHARGE..... 800. L/MIN

OTHER SAMPLE INFORMATION.. WATER USED LOCALLY

WATER ANALYSIS

PH..... 9.03

ALKALINITY..... 170. AS HCO3

COORDINATES

LAT/LONG... 32-20.007N 110-14.306W

UTM ZONE... 12

NORTHING... 577463.

571673.

TOTAL DISSOLVED SOLIDS... 294.
CHARGE IMBALANCE (% DIFF)... 1.0
ANALYSIS IN MG/L

AG... CO3...
AL... CR...
AS... CS... L 0.1
AU... CU... L 0.01
H... F...
HE... FE(TOT)... L 0.02
HR... GE...
CA... HCO3... 170.
CA+MG... HG... L 0.0001
CL... K... 0.5

CO...
GAS ANALYSIS
ANALYSIS IN VOLUME %
CH4... L 0.1
C2H6...
CO2... L 0.1

REFERENCE AND IDENTIFICATION
COMPILED BY... TESHIN, VICTOR
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE... MARINER AND OTHERS, 1977A

ISOIOPES (00/01)
DEL D OF WATER... -83.7
DEL U(18) OF WATER... -11.77

ISOIOPES (00/01)

LI... 0.11 S...
MG... L 0.1 SB...
MN... L 0.02
NA... 68. SI02... 46.
NB... S04... 3.
NI... L 0.02
RB... L 0.02 ZN... L 0.01
N2... 92.

RECORD 00003

GEOTHERM FILE ID: 0015694

COORDINATES
LAT/LONG... 32-20.20 N 110-14.27 W

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... HOOKERS HOT SPRINGS

LOCATION
COUNTRY... UNITED STATES 13S 02E 06 NE OF NE
STATE... ARIZONA
COUNTY... COCHISE

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1974/11/20
TEMPERATURE (C)... 52.
OTHER SAMPLE INFORMATION.. USED TO WATER STOCK.

WATER ANALYSIS

PH... 8.6

RADIATION ANALYSIS

A IALYST AND/OR AGENCY... U.S. EPA--ENVIRONMENTAL MONITORING AND SUPPORT LABORATORY, LAS VEGAS; MONSANTO RES. CORP.,
MOUND LABORATORY, MIAMISBURG, OHIO.
RADIATION ANALYTICAL COMMENTS... PROCEDURES: EPA HANDBOOK OF RADIOCHEMICAL ANALYTICAL METHODS, 1975; MODIFICATION OF
METHODS IN TALVITIE, 1971; STEAM SAMPLING; STOKER AND KRUGER, 1975.

RADIOISOTOPES

K-40...
P-32...
RA-226... 0.1 +/- 0.059
RA-228...
RU-222... 2400. +/- 87.

REFERENCE AND IDENTIFICATION

COMPILED BY... BLISS, JAMES D.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE... O'CONNELL AND KAUFMAN, 1976

RECORD 00004
GEOTHERM FILE ID: 0018048GEOTHERM_SAMPLE_FILE
NAME OF SAMPLE SOURCE... PUMPED WELL (EAST OF PEDREGOSA MTN.)

WELL/SPRING NUMBER..... 22S-30E-14-AD

LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... COCHISE
GEOLOGIC PROVINCE.....

MAP REFERENCE..... PEDREGOSA MOUNTAINS 1:62500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 29.0

WATER ANALYSIS

P.H..... 7.82
ALKALINITY..... 203.8 AS HCO3
TOTAL DISSOLVED SOLIDS... 244.
CHARGE IMBALANCE (% DIFF)... 0.8
ANALYSIS IN PPM

AG..... CO3..... N LI... 0.01

AL..... CR..... MG... 13.8

AS..... 0.015

AU.....

B..... N

F..... 0.48

FE(TOT)... 0.42

GA.....

H.....

CA..... 15.6

CD..... 5.0

CL.....

CO.....

K..... 7.8

MO.....

NA..... 34.5

NH.....

NO3..... 8.65

P04..... 0.03

SE... 0.001

SI02... 71.5

SO4... 6.7

SR... L 0.01

Zn... 0.06

QUALIFICATION FIELD..... N03 EQUALS N02 + N03. P04 CALCULATED FROM P.

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... SWANBERG AND OTHERS, 1977

COORDINATES

LAT/LONG... 31-30.90 N 109-15.1 W
UTM ZONE... +12
NORTHING... 3487818.
666018.ISOIOPES 10/001

RECORD 00005

GEOTHERM FILE ID: 0018104

GEOTHERM_SAMPLE_FILE
NAME OF SAMPLE SOURCE... PUMPED WELL (NORTH OF BOWIE)

WELL/SPRING NUMBER..... 12S-28E-10-CC

LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... COCHISE
GEOLOGIC PROVINCE... 04

MAP REFERENCE..... BOWIE 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 35.5

WATER ANALYSIS

P.H..... 8.06
ALKALINITY..... 117.1 AS HCO3
TOTAL DISSOLVED SOLIDS... 704.
CHARGE IMBALANCE (% DIFF)... 8.9

COORDINATES

LAT/LONG... 32-24.0 N 109-28.9 W
UTM ZONE... +12
NORTHING... 3585599.
642799.

ISOTOPES 10/0001ANALYSIS IN PPM

AG..... N
 CR.....
 AL..... 2.17 MG... 0.4 S102. 29.57
 F..... NA... 204.3 S04... 120.6
 FE(TOT)... 0.14 NB...
 CA... 26.2 HCO3... 117.1
 CD... P04... N
 CL... 173.3
 CU... K... 3.5

REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00006

GEOTHERM FILE ID: 0018106

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... PUMPED WELL (NORTH OF BOWIE-2)
 WELL/SPRING NUMBER..... 12S-28E-34-AA
 LOCATION

COORDINATES
 LAT/LONG... 32-21.2 N 109-28.20 W
 UTM ZONE... +12
 NORTING... 3580441.
 643970.

TOWNSHIP-RANGE
 12S 028E 34 NE OF NE
 B6M; GILA AND SALT RIVER

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... COCHISE
 GEOLOGIC PROVINCE... 04
 MAP REFERENCE..... BOWIE 1:62500
SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 36.0

WATER ANALYSIS

P4..... 8.65
 TOTAL DISSOLVED SOLIDS... 392.
 CHANGE IMBALANCE (% DIFF)... 6.2

ANALYSIS IN PPM

AG... L 0.07 CO3... 6.0 LI... 0.17
 AL... L 1.1 CR..... MG... 0.2
 AS... 0.007
 AU...
 BA... L 0.04 CU... L 0.12 MO... SE... 0.005
 HA... L 0.02 F... 1.02 NA... S102. 30.68
 HE...
 HI... FE(TOT)... L 0.11 NB... S04... 112.9
 NI... GA... NH4... L 0.05 SR... 0.03
 CA... 7.6 HCO3... 83. NO3... 2.04
 CA+MG... HG... 0.0006 P04... N
 CD... H2S...
 CL... 62.7
 CU... K... 2.7 ZN... 0.04

QUALIFICATION FIELD..... NO3 EQUALS NO2 + NO3.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00007

GEOTHERM FILE ID: 0018105

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... PUMPED WELL (SOUTH OF BOWIE)
 WELL/SPRING NUMBER..... 13S-28E-10-8C
 LOCATION

COORDINATES
 LAT/LONG... 32-19.1 N 109-29.0 W

TOWNSHIP-RANGE
 13S 028E 10 SW OF NW

COUNTRY..... UNITED STATES

UTM ZONE... +12
NORTHING... 3576543.
642770.

B&M: GILA AND SALT RIVER

STATE..... ARIZONA
COUNTY..... COCHISE
GEOLOGIC PROVINCE.. 04
MAP REFERENCE..... BOWIE 1162500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 36.0

WATER ANALYSIS

PH..... 8.08

ALKALINITY..... 117.1 AS HCO3

TOTAL DISSOLVED SOLIDS... 256.

CHARGE IMBALANCE (% DIFF)... 8.5

ANALYSIS IN PPM

AG..... N

CO3.....

CR.....

AL.....

FE.....

FE(TOT)... L 0.11

CA..... 23.2

CO.....

CL..... 26.9

CO.....

K..... 2.7

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... SWANBERG AND OTHERS, 1977

ISOTOPES 10/0001

MG... 2.1

NA... 49.4

NB... 26.08

PO4... 504.5

SI02... 56.7

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

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SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

RECORD 00008

GEOTHERM FILE ID: 0018107

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... PUMPED WELL (SOUTH OF BOWIE-2)

WELL/SPRING NUMBER..... 125-28E-34-CB

LOCATION

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... COCHISE

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... BOWIE 1162500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 31.0

WATER ANALYSIS

PH..... 8.03

TOTAL DISSOLVED SOLIDS... 268.

CHARGE IMBALANCE (% DIFF)... 4.8

ANALYSIS IN PPM

AG..... N

CO3.....

CR.....

AL.....

FE.....

FE(TOT)... L 0.11

CA..... 22.2

CO.....

CL..... 35.1

CO.....

K..... 2.0

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... SWANBERG AND OTHERS, 1977

COORDINATES

LAT/LONG... 32-20.7 N 109-29.0 W

UTM ZONE... +12

NORTHING... 3579499.

642729.

ISOTOPES 10/0001

MG... 1.9

NA... 55.1

NB... 30.68

PO4... 504.5

SI02... 61.

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

SI02... 504.5

RECORD 00009

GEOTHERM FILE ID: 0018050

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... WARM ARTESIAN WELL
WELL/SPRING NUMBER..... 245-30E-14-B

LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... COCHISE
GEOLOGIC PROVINCE.. 04

TOWNSHIP-RANGE

24S 030E 14 NW
B&M: GILA AND SALT RIVER

MAP REFERENCE..... COLLEGE PEAKS 1162500
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 29.5

WATER ANALYSIS

PH..... 8.75
TOTAL DISSOLVED SOLIDS... 280.
CHARGE IMBALANCE (% DIFF)... 3.3

ANALYSIS IN PPM

AG.....	CO3.....	19.2	MG...	16.	
AL.....	CR.....		NA...	59.8	SI02. 38.5
BA.....	FE.....	0.4	NB...		SO4... 6.7
BF.....	FE(TOT)...	0.16			
CA.....	HCO3.....	235.5			
CD.....	H2S.....		P04...	0.03	
CL.....		8.1			
CO.....	K.....	3.9			

ISOTOPES (00/000)

QUALIFICATION FIELD..... P04 CALCULATED FROM P.

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00010

GEOTHERM FILE ID: 0018101

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... WARM SPRINGS (WEST OF WINCHESTER MTS.)
WELL/SPRING NUMBER..... 12S-21E-31-ACD

LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... COCHISE
GEOLOGIC PROVINCE.. 04

TOWNSHIP-RANGE

12S 021E 31 SE OF SW NE
B&M: GILA AND SALT RIVER

MAP REFERENCE..... WINCHESTER MTNS. 1162500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 32.5

WATER ANALYSIS

PH..... 8.99
TOTAL DISSOLVED SOLIDS... 180.
CHARGE IMBALANCE (% DIFF)... 10.2

ANALYSIS IN PPM

AG.....	CO3.....	24.	MG...	0.006	
AL.....	CR.....		NA...	55.4	SI02. 38.79
BA.....	FE.....	1.27	NB...		SO4... 5.8
BF.....	FE(TOT)...	0.16			
CA.....					
CD.....					
CL.....					
CO.....					

ISOTOPES (00/000)

COORDINATES

LAT/LONG... 32-20.83 N 110-14.38 W
UTM ZONE... 12
NORTHING... 3579112.
571516.

CA..... 1.4 HC03..... 107.4 P04... N
 CD.....
 CL..... 0.4
 CO..... K..... 0.4
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00011

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... WELL DOMESTIC (SOUTH OF SAN SIMON)
 WELL/SPRING NUMBER..... 135-30E-36-DDD

GEOTHERM FILE ID: 0018029

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... COCHISE
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... SAN SIMON 1:62500
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1966/10/22
 TEMPERATURE (C)..... 41.7
 WELL DEPTH (M)..... 610.
 WATER ANALYSIS

COORDINATES

LAT/LONG... 32-14.92 N 109-13.69 W
 UTM ZONE... 12
 NORTHING... 3569201.
 666907.

TOWNSHIP-RANGE

13S 030E 36 SE OF SE SE
 86M: GILA AND SALT RIVER

ISOTOPES (0/000)

AG.....
 AL.....
 AS.....
 AU.....
 B..... 0.23
 BE.....
 BI.....
 BR.....
 CA..... 6.
 CA+MG..
 CI..... N
 CL..... 92.
 CO.....
 CR.....
 CS.....
 CU.....
 F.....
 FE(TOT).
 GA.....
 GE.....
 HC03.....
 Hg.....
 LI..... 0.146
 MG..... 1.
 MN..... N
 NA..... 212.
 NB.....
 NH4...
 NI..... N
 NO3... 2.
 PB..... N
 SI02.. 32.
 S04... 188.
 SH... 0.136
 ZN... 0.008

REFERENCE AND IDENTIFICATION
 COMPILER BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DUTT AND MCCREARY, 1970

RECORD 00012

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... WELL FOR AGRICULTURAL AND DOMESTIC USE
 WELL/SPRING NUMBER..... 125-23E-31-CBA

GEOTHERM FILE ID: 0018033

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... COCHISE
 MAP REFERENCE..... SAN SIMON 1:62500
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1966/10/22
 TEMPERATURE (C)..... 41.7
 WELL DEPTH (M)..... 610.
 WATER ANALYSIS

COORDINATES

LAT/LONG... 32-20.72 N 110-02.55 W
 UTM ZONE... 12
 NORTHING... 3580369.

TOWNSHIP-RANGE

12S 023E 31 NE OF R1W 5W
 86M: GILA AND SALT RIVER

561661.

GEOLOGIC PROVINCE.. 04
MAP REFERENCE..... WINCHESTER MTS. 1162500

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1966/07/08

TEMPERATURE (C)..... 54.4
WELL DEPTH (M)..... 445.

WATER ANALYSIS

PH.....
SPECIFIC CONDUCTANCE..... 9.3
CHARGE IMBALANCE (% DIFF).... 500.
ANALYSIS IN PPM

AG.....	CO3.....	24.	LI....	0.002
AL.....	CR.....		MG....	N
FE.....	0.01		NA....	110.
CA.....	2.		NO3...	1.
CL.....	1.5		SI02. N	70.
CO.....			SO4...	

ISOTOPES (0/0001

OTHER ANALYTICAL DATA... TRACE ELEMENT DATA NOT AVAILABLE.
REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.
COMPILED AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... DUTT AND MCCREARY, 1970

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... WELL FOR AGRICULTURAL USE
WELL/SPRING NUMBER..... 13S-24E-05-BA
LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... COCHISE
GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... WILCOX 1162500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1966/07/08

TEMPERATURE (C)..... 47.7
WELL DEPTH (M)..... 670.

OTHER SAMPLE INFORMATION.. UNABLE TO VERIFY LOCATION WHEN UPDATED.

WATER ANALYSIS

PH.....
SPECIFIC CONDUCTANCE..... 9.3
CHARGE IMBALANCE (% DIFF).... 500.
ANALYSIS IN PPM

AG.....	CO3.....	17.	LI....	0.001
AL.....	CR.....		MG....	N
FE.....	0.01		NA....	138.
CA.....	2.		NO3...	2.
CL.....	2.		SI02. N	110.
CO.....			SO4...	

ISOTOPES (0/0001

OTHER ANALYTICAL DATA... TRACE ELEMENT DATA NOT AVAILABLE.
REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.
COMPILED AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

RECORD 00013

GEOTHERM FILE ID: 0018032

COORDINATES

LAT/LONG... 32-20.172N 109-55.206W
UTM ZONE... 12
NORTHING... 3578025.
601633.

REFERENCE..... DUTT AND MCCREARY, 1970

RECORD 00014

GEOTHERM FILE ID: 0018030

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... WELL IRRIGATION (SE OF BOWIE)
 WELL/SPRING NUMBER..... 135-29E-27-ACC

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... COCHISE

MAP REFERENCE..... BOWIE 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1966/09/01

TEMPERATURE (C)..... 33.3

WELL DEPTH (M)..... 311.

WATER ANALYSIS

PH..... 7.95

SPECIFIC CONDUCTANCE..... 0.5

ALKALINITY..... 210. AS HCO3

CHARGE IMBALANCE (% DIFF).... 0.8

ANALYSIS IN PPM

AG.....

AL.....

AS.....

H..... 0.02

RE.....

RT.....

HR.....

CA..... 14.

CA+MG.....

CO..... N

CL..... 24.

CO..... N

CR.....

CS.....

F.....

FE(TOT).....

GA.....

GE.....

HCO3.....

MG.....

NI.....

NH4.....

NO3.....

PH.....

SI.....

SR.....

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WELL DEPTH (M)..... 412.

COORDINATES

LAT/LONG....

UTM ZONE....

NORTHING....

653427.

32-16.372N 109-22.257W

+12

3571658.

ISOTOPE 10/001

ZN... N

SI02. 23.

S04. 76.

SR... N

NI... N

NO3... 1.

PH... N

LI... 0.081

MG... 2.

MN... N

NA... 113.

NH4... N

NI... N

NO3... 1.

PH... N

SI02. 23.

S04. 76.

SR... N

NI... N

NO3... 1.

PH... N

LI... 0.081

MG... 2.

MN... N

NA... 113.

NH4... N

NI... N

NO3... 1.

PH... N

SI02. 23.

S04. 76.

SR... N

NI... N

NO3... 1.

PH... N

LI... 0.081

MG... 2.

MN... N

NA... 113.

NH4... N

NI... N

NO3... 1.

PH... N

SI02. 23.

S04. 76.

SR... N

NI... N

NO3... 1.

PH... N

LI... 0.081

MG... 2.

MN... N

NA... 113.

NH4... N

NI... N

NO3... 1.

PH... N

SI02. 23.

S04. 76.

SR... N

NI... N

NO3... 1.

PH... N

LI... 0.081

MG... 2.

MN... N

NA... 113.

NH4... N

NI... N

NO3... 1.

PH... N

SI02. 23.

S04. 76.

SR... N

NI... N

NO3... 1.

PH... N

LI... 0.081

MG... 2.

MN... N

NA... 113.

NH4... N

NI... N

NO3... 1.

PH... N

SI02. 23.

S04. 76.

SR... N

NI... N

NO3... 1.

PH... N

LI... 0.081

MG... 2.

MN... N

NA... 113.

NH4... N

NI... N

NO3... 1.

PH... N

SI02. 23.

S04. 76.

SR... N

NI... N

NO3... 1.

PH... N

LI... 0.081

MG... 2.

MN... N

NA... 113.

NH4... N

NI... N

NO3... 1.

PH... N

SI02. 23.

S04. 76.

SR... N

NI... N

NO3... 1.

PH... N

LI... 0.081

MG... 2.

MN... N

NA... 113.

NH4... N

NI... N

NO3... 1.

PH... N

SI02. 23.

S04. 76.

SR... N

NI... N

NO3... 1.

PH... N

LI... 0.081

MG... 2.

MN... N

NA... 113.

NH4... N

NI... N

NO3... 1.

PH... N

SI02. 23.

S04. 76.

SR... N

NI... N

NO3... 1.

PH... N

LI... 0.081

MG... 2.

MN... N

NA... 113.

NH4... N

NI... N

NO3... 1.

PH... N

SI02. 23.

S04. 76.

SR... N

NI... N

NO3... 1.

PH... N

LI... 0.081

MG... 2.

MN... N

NA... 113.

NH4... N

NI... N

NO3... 1.

PH... N

SI02. 23.

S04. 76.

SR... N

NI... N

NO3... 1.

PH... N

LI... 0.081

MG... 2.

MN... N

NA... 113.

NH4... N

NI... N

NO3... 1.

PH... N

SI02. 23.

S04. 76.

SR... N

NI... N

NO3... 1.

PH... N

LI... 0.081

MG... 2.

MN... N

NA... 113.

NH4... N

NI... N

NO3... 1.

PH... N

SI02. 23.

S04. 76.

SR... N

NI... N

NO3... 1.

PH... N

LI... 0.081

MG... 2.

MN... N

NA... 113.

NH4... N

NI... N

NO3... 1.

PH... N

SI02. 23.

S04. 76.

SR... N

NI... N

NO3... 1.

PH... N

LI... 0.081

MG... 2.

MN... N

NA... 113.

NH4... N

NI... N

NO3... 1.

PH... N

SI02. 23.

S04. 76.

SR... N

OTHER SAMPLE INFORMATION.. UNABLE TO VERIFY LOCATION WHEN UPDATED.

WATER ANALYSIS

PH.....	9.4				
SPECIFIC CONDUCTANCE.....	0.5				
ANALYSIS IN PPM					
AG.....		CO3.....	19.	LI....	0.002
AL.....		CR.....		MG....	N
BA.....	0.62	FE.....	10.	NA....	106.
BR.....		FE(TOT).....		NH....	
CA.....	N	HCO3.....	98.	NO3....	N
CL.....	24.				
CO.....					
		K.....	1.0		

OTHER ANALYTICAL DATA... TRACE ELEMENT DATA NOT AVAILABLE.

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DUTT AND MCCREARY, 1970

RECORD 00016

GEOTHERM FILE 10: 0018049

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... WINDMILL WELL (WEST OF LAZY J RANCH)
 WELL/SPRING NUMBER..... 235-30E-36-B

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... COCHISE
 GEOLOGIC PROVINCE... 04

MAP REFERENCE..... GUADALUPE CANYON 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 28.8

WATER ANALYSIS

PH.....	7.38				
ALKALINITY.....	1108.				
TOTAL DISSOLVED SOLIDS.....	1088.				
CHARGE IMBALANCE (% DIFF)...	4.1				
ANALYSIS IN PPM					
AG.....		CO3.....	N	MG....	36.1
AL.....		CR.....		NA....	251.7
BA.....	0.31	FE.....	2.94	NH....	
BR.....		FE(TOT).....	L 0.1		
CA.....	71.3	HCO3.....	1108.		
CL.....		H2S.....		PO4...	0.03
CO.....	19.8				
		K.....	35.2		

QUALIFICATION FIELD..... P04 CALCULATED FROM P.

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00017

GEOTHERM FILE 10: 0000211

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... BEVERLY WELL

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... COCHISE
 GEOLOGIC PROVINCE... 04

WATER ANALYSIS

PH.....	7.38				
ALKALINITY.....	1108.				
TOTAL DISSOLVED SOLIDS.....	1088.				
CHARGE IMBALANCE (% DIFF)...	4.1				
ANALYSIS IN PPM					
AG.....		CO3.....	N	MG....	36.1
AL.....		CR.....		NA....	251.7
BA.....	0.31	FE.....	2.94	NH....	
BR.....		FE(TOT).....	L 0.1		
CA.....	71.3	HCO3.....	1108.		
CL.....		H2S.....		PO4...	0.03
CO.....	19.8				
		K.....	35.2		

LAT/LONG... 35-10.2 N 112-49.2 W

B&M: GILA AND SALT RIVER

UNITED STATES

COUNTRY..... ARIZONA

STATE..... COCONINO

MAP REFERENCE..... TURKEY CANYON 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1978/08

TEMPERATURE (C)..... 32.

WATER ANALYSIS

DATE/ANALYST..... L/MIN

PH..... 6.5

CHARGE IMBALANCE (% DIFF).... 7.4

ANALYSIS IN MG/L

AL..... CR..... 18.

R..... 0.37 F..... 15.

FE..... 0.27 SI02.. 25.

CA..... 35. HCO3..... 180.

CL..... 16. S04.. 12.

CO..... K..... 2.6

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R. H.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... GOFF, 1979

ISOLOPES (0/001)

RECORD 00018

GEOTHERM FILE 10: 0018078

NAME OF SAMPLE SOURCE... HOT SPRING (SOUTH OF SAN CARLOS RESERVOIR)

WELL/SPRING NUMBER..... 13S-18E-17-CO

TOWNSHIP-RANGE

LOCATION..... UNITED STATES 13S 018E 17 SE OF SW

COUNTRY..... ARIZONA B&M: GILA AND SALT RIVER

STATE..... GILA

COUNTY..... 04

GEOLOGIC PROVINCE.. COOLIDGE DAM 1:24000

MAP REFERENCE.....

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 36.6

WATER ANALYSIS

PH..... 7.37

ALKALINITY..... 331.9 AS HCO3

TOTAL DISSOLVED SOLIDS... 2096.

CHARGE IMBALANCE (% DIFF).... 3.4

ANALYSIS IN PPM

AG..... L 0.06 CO3..... N

AL..... 4.0 CR..... 1.85

AS..... 0.031 MG... 29.

AU..... L 0.1 MU... 0.018

BA..... 1.26 F..... 3.36 SE... 47.81

CA..... 124.4 FE(TOT) L 0.15 S04.. 50.4

CL..... 9.08.4 GA..... NH4... 1.54

CO..... K..... 30.9

CU..... 124.4 HCO3..... 331.9

FE..... 124.4 H2S..... 0.0002

MG..... 124.4 H2S..... 0.0002

NA..... 124.4 H2S..... 0.0002

NO3..... 124.4 H2S..... 0.0002

PO4..... 124.4 H2S..... 0.0002

SO4..... 124.4 H2S..... 0.0002

SI02..... 124.4 H2S..... 0.0002

TEMPERATURE (C)..... 32.

COORDINATES

LAT/LONG... 33-09.95 N 110-31.4 W

UTM ZONE... +12

NORTHING... 3670226.

543977.

ISOLOPES (0/001)

QUALIFICATION FIELD.....

NO3 EQUALS NO2 + NO3. PO4 CALCULATED FROM P.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE... SWANBERG AND OTHERS, 1977

RECORD 00019

GEOTHERM FILE ID: 0018077

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... MISCAL WARM SPRINGS
 WELL/SPRING NUMBER... 03S-17E-20-CBC
 LOCATION
 COUNTRY... UNITED STATES
 STATE... ARIZONA
 COUNTY... GILA
 GEOLOGIC PROVINCE... 04
 MAP REFERENCE... MISCAL WARM SPRING 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)... 29.1

WATER ANALYSIS
 PH... 7.85
 ALKALINITY... 245.2 AS HCO3
 TOTAL DISSOLVED SOLIDS... 332.
 CHARGE IMBALANCE (% DIFF)... 6.1

ISOTOPES (0/00L)

ANALYSIS IN PPM
 AG... L 0.06
 AL... L 1.0
 AS... 0.003
 AU...
 H... 0.04
 HA... L 0.2
 HE...
 HI...
 CA... 42.2
 CA+Mg...
 CD... 15.6
 CO...
 QUALIFICATION FIELD... NO3 EQUALS NO2 + NO3.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE... SWANBERG AND OTHERS, 1977

SE... L 0.002
 SI02... 21.39
 SN... L 0.05
 S04... 8.1
 SR... 0.05
 LI... L 0.014
 MG... 19.2
 MO...
 NA... 14.7
 NA+K...
 NH...
 NH4...
 NO3... 5.21
 PU4... N
 ZN... L 0.02

COORDINATES

LAT/LONG... 33-09.30 N 110-38.23 W
 UTM ZONE... +12
 NORTHING... 3668338.
 533882.

TOWNSHIP-RANGE

03S 017E 20
 B&M: GILA AND SALT RIVER

RECORD 00020

GEOTHERM FILE ID: 0002940

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WARM SPRINGS (COOLIDGE DAM)
 LOCATION

TOWNSHIP-RANGE

03S 017E 20
 B&M: GILA AND SALT RIVER

COORDINATES

LAT/LONG... 33-09.95 N 110-31.4 W
 UTM ZONE... +12
 NORTHING... 3669669.
 543513.

COUNTRY... UNITED STATES
 STATE... ARIZONA
 COUNTY... GILA
 GEOLOGIC PROVINCE... 04
 MAP REFERENCE... COOLIDGE DAM 1:24000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)... 36.0
 OTHER SAMPLE INFORMATION... SPRINGS NO LONGER ACTIVE; WATER FROM SHALLOW WELL

WATER ANALYSIS

AS HCU3

6.81

326.

2687.

0.0

ANALYSIS IN MG/L

AG..... CO3.....
AL..... L 0.001 CR.....
AS..... CS..... 0.1
AU..... L 0.01
H..... 1.0 F..... 3.3
HE..... FE(TOT) L 0.02
HR..... GE.....
CA..... 140. HCU3..... 326.
CL..... 980.

CO..... K..... 25.

REFERENCE AND IDENTIFICATION

COMPILED BY..... TESHIN, VICTOR
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... MARINER AND OTHERS, 1977A

RECORD 00021

GEOTERM-SAMPLE FILE

NAME OF SAMPLE SOURCE... WARM SPRINGS

WELL/SPRING NUMBER..... 01N-20E-12-

LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... GILA
GEOLOGIC PROVINCE.. 04
MAP REFERENCE..... BRONCO GULCH 1:24000
OTHER LOCALITY INFORMATION: UNCERTAIN WHICH SPRING SAMPLED.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 30.0

WATER ANALYSIS

PH..... 7.67

ALKALINITY..... 245.3

TOTAL DISSOLVED SOLIDS... 748.

CHARGE IMBALANCE (% DIFF)... 2.0

ANALYSIS IN PPM

AG..... N
AL.....
H..... 0.14
HE..... 0.24
CA..... 43.3
CO.....
CL..... 244.2
CO..... K..... 6.2

QUALIFICATION FIELD..... P04 CALCULATED FROM P.

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... SWANBERG AND OTHERS, 1977

ISOLOPES 10/001

DEL D OF WATER.....
DEL D(18) OF WATER...

-79.3
-10.75

S.....
SR.....

1.6
33.
L 0.02

LI.....
MG.....
MN.....

0.1
L 0.01

NA.....
NB.....

SI02..
S04..

45.
420.

NI.....
L 0.02

ZN.....
L 0.01

COORDINATES

LAT/LONG... 33-26.40 N 110-12.7 W
UTM ZONE... 12
NORTHING... 3700152.
573278.

GEOTERM FILE ID: 0018060

ISOLOPES 10/001

SI02..
S04..

20.5
157.5

MG..
NA..
NB..

0.24
L 0.15

FE(TOT)..
HCU3.....

245.3
H25.....

PO4..
0.03

54.34
7.2

RECORD 00022
GEOTHERM FILE ID: 0018080

GEOTHERM_SAMPLE_FILE

NAME OF SAMPLE SOURCE... CAT TANK WINDMILL

WELL/SPRING NUMBER..... 08S-29E-21-AB

LOCATION

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... GRAHAM

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... DRY MOUNTAIN 1124000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... A265

TEMPERATURE (C)..... 32.8

WATER ANALYSIS

PH..... 8.53

TOTAL DISSOLVED SOLIDS... 1000.

CHARGE IMBALANCE (% DIFF)... 0.9

ANALYSIS IN PPM

AG..... 13.

AL.....

AR..... 0.44

BA.....

BE.....

CA..... 5.4

CD.....

CE..... 190.

CO.....

CU.....

CR.....

FE..... 8.3

FI.....

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COORDINATES

LAT/LONG... 32-43.7 N 109-22.7 W

UTM ZONE... +12

NORTHING... 3630643.

EASTING... 651833.

ISOTOPES (02/001)

MG... 0.5

NA... 332.

SI02... 59.

SO4... 269.

PO4... 0 0.06

QUALIFICATION FIELD..... P04 CALCULATED FROM P.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00023

GEOTHERM FILE ID: 0018114

GEOTHERM_SAMPLE_FILE

NAME OF SAMPLE SOURCE... CULLINS HEALTH SPA (WELL)

WELL/SPRING NUMBER..... 08S-26E-07-0AA

LOCATION

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... GRAHAM

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... SAFFORD 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

POINT OF COLLECTION.. UNCERTAIN WHICH WELL SAMPLED.

TEMPERATURE (C)..... 41.5

WATER ANALYSIS

PH..... 8.5

TOTAL DISSOLVED SOLIDS... 1992.

CHARGE IMBALANCE (% DIFF)... 4.0

ANALYSIS IN PPM

AG.....

AL.....

AR..... 1.04

BA.....

BE.....

CA..... 2.4

CD.....

CE.....

CO.....

CU.....

CR.....

FE..... 9.6

FI.....

FO.....

FR.....

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COORDINATES

LAT/LONG... 32-45.09 N 109-43.20 W

UTM ZONE... +12

NORTHING... 3624107.

EASTING... 619915.

ISOTOPES (02/001)

MG... 0.5

NA... 677.7

SI02... 27.58

HE..... 22. FE(TOT). L 0.11 NB... 368.8
 CA..... HC03..... 40.3
 CD..... H2S..... P04.. N
 CL..... 817.5
 CO..... K..... 3.9
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00024
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... GRAPEVINE SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... FORT THOMAS 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 33.
 REFERENCE AND IDENTIFICATION
 COMPILER BY..... MARINER, R
 COMPILER AFFILIATION... USGS
 REFERENCE..... BERRY AND OTHERS, 1980

COORDINATES
 LAT/LONG... 33-00.5 N 109-46.7 W

GEOTHERM FILE ID: 0001483

RECORD 00025

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... HOT ARTESIAN WELL (WEST OF DANK WORTH LAKE)
 WELL/SPRING NUMBER..... 085-26E-20-CAC
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... ARTESIA 1:24000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 39.4
 WATER ANALYSIS

COORDINATES
 LAT/LONG... 32-43.27 N 109-42.51 W
 UTM ZONE... 12
 NORTHING... 3620796
 621205.

GEOTHERM FILE ID: 0018059

ISOTOPE (OZ/DL)

PH..... 8.8
 TOTAL DISSOLVED SOLIDS... 816.
 CHARGE IMBALANCE (% DIFF)... 3.1
 ANALYSIS IN PPM
 AG..... 9.0
 AL..... MG... 0.1
 H..... 0.84
 FE..... 14.54
 FE(TOT). L 0.1
 CA..... 86.
 CD..... P04.. 0.06
 CL..... 259.5
 CO..... K..... 1.2
 QUALIFICATION FIELD..... P04 CALCULATED FROM P.
 REFERENCE AND IDENTIFICATION
 COMPILER BY..... GOODE, H.

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00026

GEOTHERM FILE 10: 0018086

GEOTHERM_SAMPLE_FILE

NAME OF SAMPLE SOURCE... HOT ARTESIAN WELL (WEST OF DANK WORTH LAKE-2)
WELL/SPRING NUMBER..... 08S-26E-08-CAB

LOCATION

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... GRAHAM

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... ARTESIA 1124000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 39.4

WATER ANALYSIS

P.H..... 7.86

ALKALINITY..... 117.1 AS HCO3

TOTAL DISSOLVED SOLIDS... 3000.

CHARGE IMBALANCE (% DIFF)... 2.9

ANALYSIS IN PPM

AG..... L 0.06

AL..... L 1.00

AS..... 0.042

AU.....

H..... 1.78

HA..... L 0.2

HE.....

HI.....

CA..... 42.1

CA-MG.....

CD.....

CL..... 1124.9

CO.....

QUALIFICATION FIELD..... NO3 EQUALS NO2 + NO3. P04 CALCULATED FROM P.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... SWANBERG AND OTHERS, 1977

ISOLOPES 10/001

COORDINATES

LAT/LONG... 32-44.95 N 109-42.65 W

UTM ZONE... +12

NORTHING... 3623932.

620698.

TOWNSHIP-RANGE

08S 026E 08

B&M: GILA AND SALT RIVER

NW OF NE SW

RECORD 00027

GEOTHERM FILE 10: 0018083

GEOTHERM_SAMPLE_FILE

NAME OF SAMPLE SOURCE... HOT PUMPED WELL (EAST OF STARVATION FLAT)
WELL/SPRING NUMBER..... 10S-28E-36-ADA

LOCATION

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... GRAHAM

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... JAVELINA PEAK 1124000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 41.1

WATER ANALYSIS

P.H..... 8.32

ALKALINITY..... 191.6 AS HCO3

COORDINATES

LAT/LONG... 32-31.40 N 109-25.55 W

UTM ZONE... +12

NORTHING... 3599347.

647771.

TOWNSHIP-RANGE

10S 028E 36

B&M: GILA AND SALT RIVER

NE OF SE NE

TOTAL DISSOLVED SOLIDS... 960.
 CHARGE IMBALANCE (% DIFF)... 3.6
 ANALYSIS IN PPM
 AG... L 0.06 CO3... N
 AL... L 1.0 CR...
 AS... 0.044
 AU...
 R... 0.5 L 0.12 CU... SE... 0.013
 HA... L 0.2 F... 9.9 NA... 59.19
 HE...
 HI...
 CA... 6.6 FE(TOT)... L 0.15 NH... 283.8
 CA-MG... HCO3... 191.6 NH4... L 0.05 SR... 0.03
 CO... H2S... L 0.0002 NO3... 0.09
 CL... 200. PO4... 0.03
 CO... K... 3.5 ZN... L 0.02
 QUALIFICATION FIELD... NO3 EQUALS NO2 + NO3. PO4 CALCULATED FROM P.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE... SWANBERG AND OTHERS, 1977

ISOTOPES 10/001

RECORD 00028

GEOTHERM FILE 101 0018103

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... HOWARD WELL
 WELL/SPRING NUMBER... 115-29E-36-BBC
 LOCATION
 COUNTRY... UNITED STATES
 STATE... ARIZONA
 COUNTY... GRAHAM
 GEOLOGIC PROVINCE... 04
 MAP REFERENCE... BOWIE 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)... 30.5
 WATER ANALYSIS
 PH... 7.91
 ALKALINITY... 184.3 AS HCO3
 TOTAL DISSOLVED SOLIDS... 2016.
 CHARGE IMBALANCE (% DIFF)... 6.4
 ANALYSIS IN PPM
 AG... CO3... N
 AL... CR...
 R... 1.18 F... 4.65 MG... 12.
 HE... FE(TOT)... 0.16 NA... 517.9
 CA... H1.1 HCO3... 184.3 NO3... 41.05
 CO... H2S... CL... 175.1 PO4... 504..
 CU... K... 6.2
 REFERENCE AND IDENTIFICATION
 COMPILED BY... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE... SWANBERG AND OTHERS, 1977

COORDINATES

LAT/LONG... 32-26.33 N 109-20.78 W
 UTM ZONE... 12
 NORTHING... 3590037.
 655431.

ISOTOPES 10/001

RECORD 00029

GEOTHERM FILE 101 0018123

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... INDIAN HOT SPRING
WELL/SPRING NUMBER..... 05S-24E-17-A

LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... GRAHAM
GEOLOGIC PROVINCE..
MAP REFERENCE..... FT. THOMAS 1:62500
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

COORDINATES

LAT/LONG... 33-00.2 N 109-54.0 W
UTM ZONE... +12
NORTHING... 3652003.
602758.

SAMPLE DESCRIPTION AND CONDITIONS

POINT OF COLLECTION.. UNCERTAIN WHICH SPRING SAMPLED
TEMPERATURE (C)..... 46.5

WATER ANALYSIS

PH..... 7.88
ALKALINITY..... 101.2 AS HCO3
TOTAL DISSOLVED SOLIDS... 3004.
CHARGE IMBALANCE (% DIFF)... 3.9
ANALYSIS IN PPM

AG.....	CO3..... N	MG...	10.3	SI02..	43.45
AL.....	CR.....	NA...	1022.6	SO4...	361.
FE.....	FE(TQT) L	NO...			
CA.....	HC03.....				
CD.....	H2S.....	PO4.. N			
CL.....					
CO.....	K.....				

QUALIFICATION FIELD..... P04 CALCULATED FROM P.
REFERENCE AND IDENTIFICATION

C. COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00030

GEOTHERM FILE ID: 0018124

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... INDIAN HOT SPRING DUG WELL

WELL/SPRING NUMBER..... 05S-24E-17-A

LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... GRAHAM
GEOLOGIC PROVINCE..
MAP REFERENCE..... FT. THOMAS 1:62500
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

COORDINATES

LAT/LONG... 33-00.1 N 109-54.0 W
UTM ZONE... +12
NORTHING... 3651818.
602760.

SAMPLE DESCRIPTION AND CONDITIONS

POINT OF COLLECTION.. UNCERTAIN WHICH SPRING SAMPLED
TEMPERATURE (C)..... 47.0

WATER ANALYSIS

PH..... 7.87
ALKALINITY..... 107.3 AS HCO3
TOTAL DISSOLVED SOLIDS... 2672.
CHARGE IMBALANCE (% DIFF)... 1.7
ANALYSIS IN PPM

AG.....	CO3..... N	LI...	1.30	SE...	0.021
AL.....	CR.....	MG...	9.0	SI02..	43.45
AS.....	AS.....				
AU.....	CU.....	MO...			
H.....	F.....	NA...	837.		

ISOLOPES (00001)

HA..... 0.3
 HE.....
 HI.....
 CA+MG. 79.6
 CD.....
 CL..... 1196.3
 CO.....
 FE(TOT). L 0.1
 GA.....
 HC03..... 107.3
 HG..... 0.0006
 H2S.....
 K..... 13.6
 NH.....
 NH4.....
 NO3.....
 P04..... N
 S04..... 322.6
 SR..... 1.02
 ZN..... 0.12

QUALIFICATION FIELD..... NO3 EQUALS NO2 + NO3.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00031

GEOHERM FILE ID: 0015695

GEOHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... INDIAN HOT SPRINGS
 WELL/SPRING NUMBER..... 17
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... GRAHAM
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1974/11/18
 TEMPERATURE (C)..... 48.
 WATER ANALYSIS
 P..... 7.6
 RADIATION ANALYSIS
 ANALYST AND/OR AGENCY... U.S. EPA--ENVIRONMENTAL MONITORING AND SUPPORT LABORATORY, LAS VEGAS MONSANTO RES. CORP.,
 MOUND LABORATORY, MIAMISBURG, OHIO.
 RADIATION ANALYTICAL COMMENTS... PROCEDURES: EPA HANDBOOK OF RADIOCHEMICAL ANALYTICAL METHODS, 1975; MODIFICATION OF
 METHODS IN TALVITIE, 1971; STEAM SAMPLING: STOKER AND KRUGER, 1975.
 RADIOISOTOPES
 K-40.....
 PR-210.....
 RA-226..... 0.66 +/- 0.13
 RA-228.....
 RN-222..... 530. +/- 51.
 TH-230..... L 0.025
 TH-232..... L 0.0088
 U-234..... 0.72 +/- 0.092
 U-238..... 0.38 +/- 0.063

COORDINATES
 LAT/LONG... 32-59.93 N 109-53.87 W

RECORD 00032

GEOHERM FILE ID: 0002941

GEOHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... INDIAN HOT SPRINGS
 WELL/SPRING NUMBER..... 055-24E-17-AD
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE... 04
 MAP REFERENCE..... THATCHER 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 POINT OF COLLECTION... UNCERTAIN WHICH SPRING SAMPLED.

COORDINATES
 LAT/LONG... 32-59.85 N 109-53.95 W
 UTM ZONE... 12
 NORTHING... 3651355.
 602838.

TEMPERATURE (C)..... 48.0
DISCHARGE..... 1000. L/MIN
OTHER SAMPLE INFORMATION.. INACTIVE RESORT
WATER ANALYSIS

PH..... 7.55
ALKALINITY..... 88. AS HCO3
TOTAL DISSOLVED SOLIDS... 2630.
CHARGE IMBALANCE (% DIFF).... 0.2
ANALYSIS IN MG/L

AG..... CO3.....
AL..... L 0.001 CR.....
AS..... CS..... L 0.1
AU..... CU..... L 0.01
H..... 0.57 F..... 3.4
HE..... FE(TOT) L 0.02
HR..... GE..... L 0.02
CA..... 76. HCO3..... 88.
CA+MG. HG..... 0.0001
CL..... 1200. K..... 13.

GAS ANALYSIS
ANALYSIS IN VOLUME %

C2H6. L 0.1
CO2. L 0.1

REFERENCE AND IDENTIFICATION
COMPILED BY..... TESHIN, VICTOR
COMPILER AFFILIATION.. U.S. GEOLOGICAL SURVEY
REFERENCE..... MARINER AND OTHERS, 1977A

RECORD 00033

GEOTHERM FILE ID: 0015734

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... LEBANON MINERAL BATH
WELL/SPRING NUMBER..... 07

LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... GRAHAM
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1974/11/19

TEMPERATURE (C)..... 41.
OTHER SAMPLE INFORMATION.. ABANDONED BATH HOUSE.

WATER ANALYSIS

PH..... 8.3

RADIATION ANALYSIS

ANALYST AND/OR AGENCY... U.S. EPA--ENVIRONMENTAL MONITORING AND SUPPORT LABORATORY, LAS VEGAS; MONSANTO RES. CORP.,
MOUND LABORATORY, MIAMISBURG, OHIO.

RADIATION ANALYTICAL COMMENTS.. PROCEDURES: EPA HANDBOOK OF RADIOCHEMICAL ANALYTICAL METHODS, 1975; MODIFICATION OF
METHODS IN TALVITIE, 1971; STEAM SAMPLING; STOKER AND KRUGER, 1975.

RADIOISOTOPES

K-40.....
PH-210.....
RA-226..... 0.3 +/- 0.089 +/- 0.02
RA-228..... 420. +/- 0.016
RU-228..... 37.

REFERENCE AND IDENTIFICATION

ISOTOPES 100/001
DEL D OF WATER..... -85.8
DEL O(18) OF WATER... -11.42

ISOTOPES 100/001

COORDINATES

LAT/LONG... 32-45.40 N 109-43.47 W

COMPILED BY..... BLISS, JAMES D.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... O'CONNELL AND KAUFMAN, 1976

RECORD 00034

GEOTHERM FILE ID: 0018901

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... LEBANON MINERAL BATH(WELL)
 WELL/SPRING NUMBER..... 08S-26E-07-ABB
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... SAFFORD 1:62500

SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 41.5

WATER ANALYSIS

PH..... 8.07
 ALKALINITY..... 47.6 AS HCO3
 TOTAL DISSOLVED SOLIDS... 2256.
 CHARGE IMBALANCE (% DIFF)... 60.9

ANALYSIS IN PPM

AG..... CO3..... N
 AL..... CR.....
 H..... 1.29 F..... 9.0 MG... 2.6
 HE..... FE(TOT)... L 0.1 NA... 1053.6 SI02. 20.43
 CA..... 69. HCO3.... 47.6 NB... S04... 604.8
 CD..... H2S.....
 CL..... 447.3
 CO..... K..... 6.6

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

ISOTOPES (0/000)

COORDINATES

LAT/LONG... 32-45.47 N 109-43.33 W
 UTM ZONE... 12
 NORTHING... 3624844.
 619750.

RECORD 00035

GEOTHERM FILE ID: 0018122

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... LUCATS HEALTH SPA(WELL)
 WELL/SPRING NUMBER..... 08S-26E-07-000
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... ARTESIA 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 42.0

WATER ANALYSIS

PH..... 8.5
 ALKALINITY..... 82.9 AS HCO3
 TOTAL DISSOLVED SOLIDS... 1152.
 CHARGE IMBALANCE (% DIFF)... 54.5

ANALYSIS IN PPM

AG..... CO3..... N

COORDINATES

LAT/LONG... 32-44.7 N 109-43.0 W
 UTM ZONE... 12
 NORTHING... 3623556.
 620234.

ISOTOPES (0/000)

Al..... 0.9 CR..... 0.4
 U..... 13.60 MG.... 523.7 SI02.. 23.58
 Fe..... L 0.1 NA.... 504.. 282.3
 Ca..... 21. HCO3.... 82.9
 Cl..... 203.7 P04... N
 CO..... K..... 3.9
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00036

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... LUKAT'S SPA WELL
 WELL/SPRING NUMBER..... 35
 LOCATION

GEOTHERM FILE ID: 0015696

COUNTRY..... UNITED STATES NE
 STATE..... ARIZONA
 COUNTY..... GRAHAM
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1974/11/19
 TEMPERATURE (C)..... 42.
 OTHER SAMPLE INFORMATION.. RECREATIONAL SPA.
 WATER ANALYSIS

COORDINATES
 LAT/LONG... 32-41.17 N 109-42.50 W

TOWNSHIP-RANGE
 09S 026E

pH..... 8.3
 RADIATION ANALYSIS

ANALYST AND/OR AGENCY... U.S. EPA--ENVIRONMENTAL MONITORING AND SUPPORT LABORATORY, LAS VEGAS; MONSANTO RES. CORP.,
 NOJORD LABORATORY, MIAMI, FLORIDA.
 RADIATION ANALYTICAL COMMENTS... PROCEDURES: EPA HANDBOOK OF RADIOCHEMICAL ANALYTICAL METHODS, 1975; MODIFICATION OF
 METHODS IN TALVITIE, 1971; STEAM SAMPLING; STOKER AND KRUGER, 1975.

RADIOISOTOPES

K-40..... TH-230.... L 0.018
 Ra-210..... TH-232.... 0.0079 +/- 0.0056
 Ra-226.... 0.089 +/- 0.05 U-234.... 0.087 +/- 0.036
 Ra-228.... RN-222.... 240. +/- 30. U-238.... 0.042 +/- 0.024

REFERENCE AND IDENTIFICATION

COMPILER BY..... BLISS, JAMES D.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... O'CONNELL AND KAUFMAN, 1976

RECORD 00037

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... MOUNT GRAHAM MINERAL BATH WELL
 LOCATION

GEOTHERM FILE ID: 0015697

COUNTRY..... UNITED STATES NE OF SW SW
 STATE..... ARIZONA
 COUNTY..... GRAHAM
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1974/11/18
 TEMPERATURE (C)..... 45.
 OTHER SAMPLE INFORMATION.. RECREATIONAL SPA.
 WATER ANALYSIS

COORDINATES
 LAT/LONG... 32-52.07 N 109-45.40 W

TOWNSHIP-RANGE
 06S 025E 35

pH..... 7.7

RADIATION ANALYSIS

ANALYST AND/OR AGENCY... U.S. EPA--ENVIRONMENTAL MONITORING AND SUPPORT LABORATORY, LAS VEGAS; MONSANTO RES. CORP.,
 MOUND LABORATORY, MIAMISBURG, OHIO.
 RADIATION ANALYTICAL COMMENTS... PROCEDURES: EPA HANDBOOK OF RADIOCHEMICAL ANALYTICAL METHODS, 1975; MODIFICATION OF
 METHODS IN TALVITIE, 1971; STEAM SAMPLING: STOKER AND KRUGER, 1975.
 RADIOISOTOPES

K-40.....
 RA-226..... 1.3 +/- 0.17
 RA-228..... 0.12 +/- 0.034
 TH-230..... L 0.035
 TH-232..... L 0.019
 U-234..... +/- 0.051
 U-238..... 0.12 +/- 0.034

REFERENCE AND IDENTIFICATION

COMPILED BY..... BLISS, JAMES D.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... O'CONNELL AND KAUFMAN, 1976

RECORD 00038

GEOTHERM FILE ID: 0018121

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... MR. GRAHAM MINERAL BATH
 WELL/SPRING NUMBER..... 06S-25E-36-CCB

TOWNSHIP-RANGE

UNITED STATES 36 NW 1/4 SW
 ARIZONA 06S 025E 36
 GRAHAM B6M: GILA AND SALT RIVER

COORDINATES

LAT/LONG... 32-51.73 N 109-44.93 W
 UTM ZONE... 12
 NORTHING... 3636640
 617112.

LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE...
 MAP REFERENCE..... SAFFORD 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 43.5

WATER ANALYSIS

PH..... 7.85
 ALKALINITY..... 80.5 AS HC03
 TOTAL DISSOLVED SOLIDS... 8292.
 CHARGE IMBALANCE (% DIFF)... 4.0

ISOTOPE 10/2001

ANALYSIS IN PPM
 AG..... L 0.07 CO3..... N LI... 2.77
 AL..... L 1.1 CR..... MG... 7.9
 AS..... 0.070 CU..... L 0.12 MU... SE... 0.053
 AU..... 1.65 F..... 7.2 NA... SI02. 65.83
 HA..... L 0.2 FE(TOT). 0.24 NB... S04... 787.2
 HE..... GA..... NH4... SR... 1.88
 HI..... HC03..... 80.5 NO3...
 CA..... 135.4 HG..... 0.0007 PU4... N
 CA-MG... H2S.....
 CD.....
 CL..... 4517.3
 CO..... K..... 10.9 ZN... U-09

QUALIFICATION FIELD..... NO3 EQUALS NO2 + NO3.

REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00039

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0002942

NAME OF SAMPLE SOURCE... MT. GRAHAM HOT MINERAL WELL
WELL/SPRING NUMBER..... 07S-25E-01-BCC

LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... GRAHAM
GEOLOGIC PROVINCE.. 04
MAP REFERENCE..... THATCHER 1:62500
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C)..... 42.0
OTHER SAMPLE INFORMATION.. PUMPED WELL; MINERAL BATHS
WATER ANALYSIS

TOWNSHIP-RANGE
07S 02SE 01 SW OF SW SW
B&M: GILA AND SALT RIVER

COORDINATES

LAT/LONG... 32-51.274N 109-44.633W
UTM ZONE... 12
NORTHING... 3635673.
EASTING... 617540.

PH..... 7.58
ALKALINITY..... 103.
TOTAL DISSOLVED SOLIDS... 7436.
CHARGE IMBALANCE (% DIFF)... 2.8
ANALYSIS IN MG/L

AG.....
AL..... 0.002
AS.....
AU.....
H..... 1.4
HE.....
HR.....
CA..... 110.
CM.....
CL..... 3800.
CO.....
K..... 11.
R.....
S.....
SE.....
SI..... 2600.
SO.....
NI.....
HC03..... 103.
HG..... 0.0003

ISOLOPES 10/001
DEL O OF WATER..... -83.4
DEL O (18) OF WATER... -11.03

LI... 1.9
MG... 10.
MN... 0.09
NA... 2600.
NB... 55.
NI... 680.

REFERENCE AND IDENTIFICATION
COMPILED BY..... TESHIN, VICTOR
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... MARINER AND OTHERS, 1977A

RECORD 00040

GEOTHERM FILE ID: 0018120

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... PUMPED HOT WELL (NORTH OF BUENA VISTA)
WELL/SPRING NUMBER..... 07S-27W-11-B88

LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... GRAHAM
GEOLOGIC PROVINCE.. 04
MAP REFERENCE..... SAFFORD 1:62500
OTHER LOCALITY INFORMATION: UNCERTAIN WHICH WELL SAMPLED.
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C)..... 43.5
WATER ANALYSIS

COORDINATES

LAT/LONG... 32-50.7 N 109-33.6 W
UTM ZONE... 12
NORTHING... 3634832.
EASTING... 634762.

PH..... 8.54
TOTAL DISSOLVED SOLIDS... 1076.
CHARGE IMBALANCE (% DIFF)... 10.6
ANALYSIS IN PPM

AG..... L 0.07
AL..... L 1.10
AS..... 0.095
AU.....
CO3..... 13.2
CR.....
CU..... L 0.12
LI... 0.36
MG... 1.3
MU... 0.008
SE... 0.008

ISOLOPES 10/001

R..... 0.43 F..... 10.60 NA... 330.7 SI02. 66.96
 RA..... L 0.2 FE(TOT). L 0.1 NH... S04.. 295.8
 HE..... GA..... NH4... 0.05 SR... 0.03
 HI..... 7.4 HCO3.... 233. N
 CA..... CA+MG. 0.006
 CD..... H2S..... P04.. N
 CL..... 203. ZN... 0.09
 CO..... K..... 4.3
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00041

GEOTHERM FILE ID: 0018109

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... PUMPED HOT WELL (SOUTH OF ARTESIA)
 WELL/SPRING NUMBER..... 09S-26E-05-BA
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... ARIZONA 09S 026E 05 NE OF NW
 COUNTY..... GRAHAM B&M: GILA AND SALT RIVER
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... ARTESIA 1:24000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 33.0
 WATER ANALYSIS

COORDINATES

LAT/LONG... 32-41.1 N 109-42.5 W
 UTM ZONE... 12
 NORTHING... 3616914.
 621096.

ISOTOPES (0/000)

AG..... CO3..... 9.6 MG... 0.1
 AL..... CR..... 10.35 NA... 161.9 SI02. 27.58
 H..... F..... 0.2 NR... S04.. 105.7
 HE..... FE(TOT). 136.7
 CA..... HCO3....
 CD..... H2S..... P04.. N
 CL..... 103.1
 CO..... K..... 1.2

REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00042

GEOTHERM FILE ID: 0018119

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... PUMPED HOT WELL (SOUTH OF GILA MTS.)
 WELL/SPRING NUMBER..... 07S-27E-02-ACA
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... ARIZONA 07S 027E 02 NE OF SW NE
 COUNTY..... GRAHAM B&M: GILA AND SALT RIVER
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... SAFFORD 1:62500
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

COORDINATES

LAT/LONG... 32-51.3 N 109-33.0 W
 UTM ZONE... 12
 NORTHING... 3636140.
 635836.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 37.5

WATER ANALYSIS

PH..... 8.43

TOTAL DISSOLVED SOLIDS..... 1012.

CHARGE IMBALANCE (% DIFF).... 11.1

ANALYSIS IN PPM

AG..... 8.4

AL..... 0.46

BA..... 10.20

BR..... L 0.1

CA..... 6.2

CD..... 250.1

CL..... 167.5

CO..... K..... 3.9

CU..... 8.4

CR..... 1.0

FE..... 357.6

GA..... 66.96

HC..... 226.6

HM..... 1.0

HN..... 357.6

HO..... 66.96

HP..... 226.6

HR..... 1.0

HS..... 357.6

HT..... 66.96

HU..... 226.6

HV..... 1.0

HW..... 357.6

HX..... 66.96

HY..... 226.6

HZ..... 1.0

IA..... 357.6

IB..... 66.96

IC..... 226.6

ID..... 1.0

IE..... 357.6

IF..... 66.96

IG..... 226.6

IH..... 1.0

II..... 357.6

IJ..... 66.96

IK..... 226.6

IL..... 1.0

IM..... 357.6

IN..... 66.96

IO..... 226.6

IP..... 1.0

IQ..... 357.6

IR..... 66.96

IS..... 226.6

IT..... 1.0

IU..... 357.6

IV..... 66.96

IW..... 226.6

IX..... 1.0

IY..... 357.6

IZ..... 66.96

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00043

GEUTHERM FILE ID: 0018084

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... PUMPED WELL (SOUTH OF SAFFORD-6)

WELL/SPRING NUMBER..... 08S-26E-09-BC

LOCATION

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... GRAHAM

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... SAFFORD 1:62500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 38.9

WATER ANALYSIS

PH..... 7.9

AL..... 172.

BA..... 1464.

BR..... 2.1

CA..... 2.1

CD..... 2.1

CL..... 2.1

CO..... 2.1

CU..... 2.1

CR..... 2.1

FE..... 2.1

GA..... 2.1

HC..... 2.1

HM..... 2.1

HN..... 2.1

HO..... 2.1

HP..... 2.1

HR..... 2.1

HS..... 2.1

HT..... 2.1

HU..... 2.1

HW..... 2.1

HX..... 2.1

HY..... 2.1

HZ..... 2.1

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00043

GEUTHERM FILE ID: 0018084

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... PUMPED WELL (SOUTH OF SAFFORD-6)

WELL/SPRING NUMBER..... 08S-26E-09-BC

LOCATION

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... GRAHAM

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... SAFFORD 1:62500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 38.9

WATER ANALYSIS

PH..... 7.9

AL..... 172.

BA..... 1464.

BR..... 2.1

CA..... 2.1

CD..... 2.1

CL..... 2.1

CO..... 2.1

CU..... 2.1

CR..... 2.1

FE..... 2.1

GA..... 2.1

HC..... 2.1

HM..... 2.1

HN..... 2.1

HO..... 2.1

HP..... 2.1

HR..... 2.1

HS..... 2.1

HT..... 2.1

HU..... 2.1

HW..... 2.1

HX..... 2.1

HY..... 2.1

HZ..... 2.1

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00043

GEUTHERM FILE ID: 0018084

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... PUMPED WELL (SOUTH OF SAFFORD-6)

WELL/SPRING NUMBER..... 08S-26E-09-BC

LOCATION

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... GRAHAM

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... SAFFORD 1:62500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 38.9

WATER ANALYSIS

PH..... 7.9

AL..... 172.

BA..... 1464.

BR..... 2.1

CA..... 2.1

CD..... 2.1

CL..... 2.1

CO..... 2.1

CU..... 2.1

CR..... 2.1

FE..... 2.1

GA..... 2.1

HC..... 2.1

HM..... 2.1

HN..... 2.1

HO..... 2.1

HP..... 2.1

HR..... 2.1

HS..... 2.1

HT..... 2.1

HU..... 2.1

HW..... 2.1

HX..... 2.1

HY..... 2.1

HZ..... 2.1

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00043

GEUTHERM FILE ID: 0018084

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... PUMPED WELL (SOUTH OF SAFFORD-6)

WELL/SPRING NUMBER..... 08S-26E-09-BC

LOCATION

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... GRAHAM

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... SAFFORD 1:62500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 38.9

WATER ANALYSIS

PH..... 7.9

AL..... 172.

BA..... 1464.

BR..... 2.1

CA..... 2.1

CD..... 2.1

CL..... 2.1

CO..... 2.1

CU..... 2.1

CR..... 2.1

FE..... 2.1

GA..... 2.1

HC..... 2.1

HM..... 2.1

HN..... 2.1

HO..... 2.1

HP..... 2.1

HR..... 2.1

HS..... 2.1

HT..... 2.1

HU..... 2.1

HW..... 2.1

HX..... 2.1

HY..... 2.1

HZ..... 2.1

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00043

GEUTHERM FILE ID: 0018084

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... PUMPED WELL (SOUTH OF SAFFORD-6)

WELL/SPRING NUMBER..... 08S-26E-09-BC

LOCATION

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... GRAHAM

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... SAFFORD 1:62500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 38.9

WATER ANALYSIS

PH..... 7.9

AL..... 172.

BA..... 1464.

BR..... 2.1

CA..... 2.1

CD..... 2.1

CL..... 2.1

CO..... 2.1

CU..... 2.1

CR..... 2.1

FE..... 2.1

GA..... 2.1

HC..... 2.1

HM..... 2.1

HN..... 2.1

HO..... 2.1

HP..... 2.1

HR..... 2.1

HS..... 2.1

HT..... 2.1

HU..... 2.1

HW..... 2.1

HX..... 2.1

HY..... 2.1

HZ..... 2.1

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BURE

RECORD 00044

GEOTHERM FILE ID: 0018082

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... PUMPED WELL (SOUTH OF WHITLOCK MTS.)

WELL/SPRING NUMBER..... 10S-29E-20-ACD

LOCATION

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... GRAHAM

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... JAVELINA PEAK 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 34.1

WATER ANALYSIS

PH..... 9.02

TOTAL DISSOLVED SOLIDS... 720.

CHARGE IMBALANCE (% DIFF)... 6.3

ANALYSIS IN PPM

AG..... 22.8

AL.....

H..... 0.3

HE.....

CA..... 2.2

CL..... 111.

CO..... K..... 4.3

REFERENCE AND IDENTIFICATION

COMPILED AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... SWANBERG AND OTHERS, 1977

ISOLOPES 10/001

COORDINATES

LAT/LONG... 32-33.0 N 109-23.7 W

UTM ZONE... 12

NORTHING... 3602348.

650701.

RECORD 00045

GEOTHERM FILE ID: 0018081

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... ROCK WELL WINDMILL

WELL/SPRING NUMBER..... 08S-29E-22-CAA

LOCATION

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... GRAHAM

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... WHITLOCK MOUNTAINS NE 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 30.8

WATER ANALYSIS

PH..... 8.28

ALKALINITY..... 117.1 AS HCO3

TOTAL DISSOLVED SOLIDS... 860.

CHARGE IMBALANCE (% DIFF)... 2.0

ANALYSIS IN PPM

AG..... N

AL.....

H..... 0.24

HE..... 1.14

CA..... 35.8

CL..... 117.1

CO.....

COORDINATES

LAT/LONG... 32-43.37 N 109-21.93 W

UTM ZONE... 12

NORTHING... 3621423.

653225.

ISOLOPES 10/001

44.45

273.8

CD..... H2S..... P04.. N
 CL..... 183.6 K..... 9.8
 CO.....
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTH OF SAFFORD, ARIZONA (1)
 WELL/SPRING NUMBER..... 08S-26E-09-08

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE... 04
 MAP REFERENCE..... SAFFORD 1:62500
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
 SAMPLE DESCRIPTION AND CONDITIONS
 SAMPLE NUMBER..... A260
 TEMPERATURE (C)..... 29.4
 WATER ANALYSIS

PH..... 7.60
 TOTAL DISSOLVED SOLIDS... 9048.
 CHARGE IMBALANCE (% DIFF)... 2.9
 ANALYSIS IN PPM

AG..... L 0.06 CO3..... N LI.... 5.2
 AL..... 4.9 CR..... 21.
 AS..... 0.015
 AU.....
 B..... 8.4 CU..... L 0.01 MO.... SE... 0.156
 BA..... 0.37 F..... 1.2 NA.... SI02. 30.
 HE..... FE(TOT)... 17. NH.... L 0.05 S04... 1688.
 HI..... GA..... NO3... SR... 4.1
 CA..... 68. HCO3..... 165. Q 6.2
 CA+MG. HG..... L 0.0002 PU4... Q 0.21
 CD..... H2S.....
 CL..... 4097.
 CO..... K..... 14. ZN... 0.09
 QUALIFICATION FIELD..... NO3 EQUALS NO2 + NO3. P04 CALCULATED FROM P.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

ISOTOPES 10/001

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTH OF SAFFORD, ARIZONA (5)
 WELL/SPRING NUMBER..... 08S-26E-12-AAA

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE... 04
 MAP REFERENCE..... SAFFORD 1:62500

COORDINATES
 LAT/LONG... 32-45.46 N 109-03.98 W
 UTM ZONE... 12
 NORTHING... 3625016.
 618655.

RECORD 00047

RECORD 00046

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... AZ23
TEMPERATURE (C)..... 39.0

WATER ANALYSIS

PH..... 8.51
TOTAL DISSOLVED SOLIDS..... 2660.
CHARGE IMBALANCE (% DIFF).... 6.1

ANALYSIS IN PPM

AG..... L 0.07	CO3..... 3.6	LI.... 2.4	
AL..... L 1.0	CR.....	MG.... 1.1	
AS..... 0.023			
AU..... 1.2	CU..... L 0.12	MO....	SE.... 0.028
RA..... 0.2	F..... 8.4	NA....	SI02. 28.
RE.....	FE(TOT). L 0.11	NB....	S04.. 496.6
HI.....	GA.....	NH4... 0.25	SR.... 1.07
CA..... 64.9	HCO3..... 30.5	NO3... N	
CAN6.	HG..... 0.0008	PO4.. N	
CO..... 1023.5	H2S.....		
CL.....			
CO..... K..... 5.5			ZN.... 0.05

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00048

GEOCHEM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTH OF SAFFORD, ARIZONA (4)
WELL/SPRING NUMBER..... 08S-26E-07-AC

LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... GRAHAM
GEOLOGIC PROVINCE... 04

MAP REFERENCE

MAP REFERENCE..... SAFFORD 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... AZ24
TEMPERATURE (C)..... 37.0

WATER ANALYSIS

PH..... 8.82
TOTAL DISSOLVED SOLIDS..... 1160.
CHARGE IMBALANCE (% DIFF).... 10.5

ANALYSIS IN PPM

AG.....	CO3..... 13.2	LI....	
AL.....	CR.....	MG.... 0.2	
R..... 0.8	F.....	NA.... 384.1	SI02. 32.
RE.....	FE(TOT). 0.18	NH....	S04.. 294.4
CA..... 18.	HCO3..... 40.3		
CO.....	H2S.....		
CL..... 418.			
CO..... K..... 2.3			

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... SWANBERG AND OTHERS, 1977

GEOCHEM FILE ID: 0018112

COORDINATES

LAT/LONG... 32-45.10 N 109-43.40 W
UTM ZONE... 12
NORTHING... 3624288.
619601.

ISOLOPES (U/001)ISOLOPES (U/001)

RECORD 00049

GEOTHERM FILE ID: 0018111

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTH OF SAFFORD, ARIZONA (3)
 WELL/SPRING NUMBER..... 08S-26E-07-8A

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE..

COORDINATES
 LAT/LONG... 32-45.4 N 109-43.6 W
 UTM ZONE... +12
 NORTHING... 3624654.
 619284.

MAP REFERENCE..... SAFFORD 1:62500
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... AZ25

TEMPERATURE (C)..... 34.5

WATER ANALYSIS

PH..... 9.00

TOTAL DISSOLVED SOLIDS... 1116.

CHARGE IMBALANCE (% DIFF)... 10.3

ANALYSIS IN PPM

AG..... 17.

AL.....

B..... 0.94

BR..... 14.

FE(TOT)... L 0.11

CA..... 65.

CO.....

CL..... 399.

CO..... K..... 2.3

QUALIFICATION FIELD..... P04 CALCULATED FROM P.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... SWANBERG AND OTHERS, 1977

ISOLOPES 10/001

RECORD 00050

GEOTHERM FILE ID: 0018110

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTH OF SAFFORD, ARIZONA (2)
 WELL/SPRING NUMBER..... 08S-26E-07-8B

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE..

COORDINATES
 LAT/LONG... 32-45.4 N 109-43.8 W
 UTM ZONE... +12
 NORTHING... 3624650.
 618972.

MAP REFERENCE..... SAFFORD 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... AZ26

TEMPERATURE (C)..... 33.5

WATER ANALYSIS

PH..... 8.92

TOTAL DISSOLVED SOLIDS... 900.

CHARGE IMBALANCE (% DIFF)... 3.5

ANALYSIS IN PPM

AG.....

AL.....

B..... 0.6

BR..... 15.

CO.....

CL.....

CO..... K.....

QUALIFICATION FIELD..... P04 CALCULATED FROM P.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... SWANBERG AND OTHERS, 1977

ISOLOPES 10/001

RE..... FE(TOT). L 0.11 NB.... S04.. 195.
 CA..... 9.2 HC03..... 49.
 CN..... H2S..... P04.. 0 0.01
 CL..... 294.
 CO..... K..... 1.6
 QUALIFICATION FIELD..... P04 CALCULATED FROM P.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00051

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTHWEST OF DANKWORTH LAKE
 WELL/SPRING NUMBER..... 085-26E-20-CO

GEOTHERM FILE ID: 0018117

LOCALITY

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... ARTESIA 1124000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
 SAMPLE DESCRIPTION AND CONDITIONS
 SAMPLE NUMBER..... AZ17
 TEMPERATURE (C)..... 44.0

LOCALITY-RANGE
 085 026E 20 SE OF SW
 B&M: GILA AND SALT RIVER

LAT/LONG... 32-43.1 N 109-42.5 W
 UTM ZONE... 12
 NORTHING... 3620609.
 621051.

WATER ANALYSIS

PH..... 8.38
 TOTAL DISSOLVED SOLIDS... 1248.
 CHARGE IMBALANCE (% DIFF)... 51.4
 ANALYSIS IN PPM

AG..... L 0.07 CO3..... N
 AL..... L 1.1 CR.....
 AS..... 0.011
 AU.....
 H..... 0.55
 HA..... L 0.2
 HE.....
 HI.....
 CA..... 16.
 CA+MG.
 CD.....
 CL..... 197.4
 CO.....
 K..... 4.3
 NO3 EQUALS NO2 + NO3.
 QUALIFICATION FIELD.....
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

ISOTOPIES (0/001

LI... 1.38
 MG... 0.7
 MO...
 NA... 497.9
 SE... 0.018
 SI02. 26.
 NB...
 NH4... 0.1
 NO3.. Q 0.15
 S04.. 266.9
 SR... 0.19
 P04.. N
 ZN... 0.09

RECORD 00052

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... WARM SPRING

GEOTHERM FILE ID: 0001486

LOCALITY

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... GRAHAM

LOCALITY-RANGE

LAT/LONG... 32-58.9 N 110-22.4 W

GEOLOGIC PROVINCE.. U4
 MAP REFERENCE..... COBRE GRANDE MTN. 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 26.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R
 COMPILER AFFILIATION... USGS
 REFERENCE..... RERRY AND OTHERS, 1980

RECORD 00053
 GEOTHERM FILE ID: 0018116

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... WARM SPRING (NW OF FT. THOMAS)
 WELL/SPRING NUMBER..... 04S-23E-21-AD
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE.. U4
 MAP REFERENCE..... FT. THOMAS 1:62500
 OTHER LOCALITY INFORMATION! UNCERTAIN WHICH SPRING SAMPLED.
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 31.5
 WATER ANALYSIS
 PH..... 7.47
 ALKALINITY..... 114.7 AS HCO3
 TOTAL DISSOLVED SOLIDS... 2556.
 CHARGE IMBALANCE (% DIFF)... 6.4
 ANALYSIS IN PPM
 AG..... CO3..... N
 AL..... CR..... MG... 10.2
 R..... F..... NA... 749.4
 BE..... FE(TOT)... 52.43
 CA..... HC03..... NB... 305.5
 CO..... H2S..... P04... 0.03
 CL..... 1153.3
 CO..... K..... 10.9
 QUALIFICATION FIELD..... P04 CALCULATED FROM P.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

ISOLOPES 10/2001

COORDINATES
 LAT/LONG... 33-04.30 N 109-59.00 W
 UTM ZONE... 12
 NORTHING... 3659500.
 594900.

RECORD 00054

GEOTHERM FILE ID: 0018115

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... WARM SPRING NEAR INDIAN HOT SPRINGS
 WELL/SPRING NUMBER..... 05S-25E-17-AD
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE.. U4
 MAP REFERENCE..... FT. THOMAS 1:62500
 OTHER LOCALITY INFORMATION! UNCERTAIN WHICH SPRING SAMPLED.
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 33.0

COORDINATES
 LAT/LONG... 33-00.0 N 109-54.0 W
 UTM ZONE... 12
 NORTHING... 3651633.
 602762.

WATER ANALYSIS

PH..... 7.45 AS HCO3
 ALKALINITY..... 108.6
 TOTAL DISSOLVED SOLIDS... 3048.
 CHARGE IMBALANCE (% DIFF)... 8.1
 ANALYSIS IN PPM

AG..... CO3..... N
 AL..... CR..... MG... 8.0
 H..... F..... NA... 920.7 SIU2. 56.61
 HE..... FE(TOT)... 0.73 NB... 338.1
 CA..... 80.6 HCO3..... 108.6
 CD..... H2S..... P04... 0.31
 CL..... 1411.7

CO..... K..... 12.9
 QUALIFICATION FIELD..... P04 CALCULATED FROM P.
 REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

ISOTOPES (0/001)

RECORD 00055

GEOTHERM FILE ID: 0018027

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... WELL (NORTH OF CACTUS FLAT)
 WELL/SPRING NUMBER..... 085-26E-06-DB

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE... 04

TOWNSHIP-RANGE
 08S 026E 06 NW OF SE
 8&M: GILA AND SALT RIVER

COORDINATES

LAT/LONG... 32-45.84 N 109-43.36 W
 UTM ZONE... 12
 NORTHING... 3625654.
 619642.

MAP REFERENCE..... SAFFORD 1162500
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
 SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1966/07/08
 TEMPERATURE (C)..... 42.2
 WELL DEPTH (M)..... 489.

WATER ANALYSIS

PH..... 8.6 AS HCO3
 SPECIFIC CONDUCTANCE..... 3600.
 ALKALINITY..... 39.
 CHARGE IMBALANCE (% DIFF)... 2.3
 ANALYSIS IN PPM

AG..... CO3..... 2. LI... 0.75
 AL..... CR..... MG... 3.
 R..... 0.94 F..... NA... 680. SIU2. N 370.
 HE..... FE(TOT)... 10. NB... 504..
 CA..... 37. HCO3..... 39. NO3... N
 CL..... 840.

CO..... K..... 4.7
 OTHER ANALYTICAL DATA... TRACE ELEMENT DATA NOT AVAILABLE.

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DUTT AND MCCREARY, 1970

ISOTOPES (0/001)

RECORD 00056

GEOTHERM FILE ID: 0018028

GEOTHERM_SAMPLE_FILE

NAME OF SAMPLE SOURCE... WELL (NORTH OF SOLOMON)

WELL/SPRING NUMBER..... 075-27E-07-DB

LOCATION

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... GRAHAM

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... SAFFORD 1162500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1966/09/09

TEMPERATURE (C)..... 46.1

WELL DEPTH (M)..... 213.

WATER ANALYSIS

PH..... 8.61

SPECIFIC CONDUCTANCE..... 1600.

ALKALINITY..... 234. AS HCO3

CHARGE IMBALANCE (% DIFF).... 3.8

ANALYSIS IN PPM

AG.....

AL.....

B..... 0.46

HE.....

CA..... 7.

CL..... 256.

CO.....

K..... 4.7

OTHER ANALYTICAL DATA... TRACE ELEMENT DATA NOT AVAILABLE.

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... DUTT AND MCCREARY, 1970

ISOLOPES 10/001

COORDINATES

LAT/LONG... 32-50.15 N 109-37.19 W

UTM ZONE... 12

NORTHING... 3633754.

629166.

RECORD 00057

GEOTHERM FILE ID: 0018108

GEOTHERM_SAMPLE_FILE

NAME OF SAMPLE SOURCE... WINDMILL WELL (EAST OF METATE PEAK)

WELL/SPRING NUMBER..... 095-26E-05-ABD

LOCATION

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... GRAHAM

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... ARTESIA 1124000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 33.0

WATER ANALYSIS

PH..... 8.18

ALKALINITY..... 218.4 AS HCO3

TOTAL DISSOLVED SOLIDS... 740.

CHARGE IMBALANCE (% DIFF).... 3.1

ANALYSIS IN PPM

AG.....

CO3..... N

ISOLOPES 10/001

COORDINATES

LAT/LONG... 32-40.97 N 109-42.33 W

UTM ZONE... 12

NORTHING... 3616733.

621411.

REFERENCE AND IDENTIFICATION		COMPILER AFFILIATION...		ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY	
REFERENCE.....		SWANBERG AND OTHERS, 1977			
AL.....	CR.....			MG...	1.0
H.....	F.....	14.55		NA...	248.9
HE.....	FE(TOT) ..	0.22		NB...	
CA.....	HC03.....	218.4			
CD.....	H2S.....			P04..	N
CL.....					
CO.....	K.....	2.3			

RECORD 00058

GEOTHERM FILE ID: 0000265

GEOTHERM-SAMPLE-FILE
 NAME OF SAMPLE SOURCE... CLIFTON HOT SPRINGS
 WELL/SPRING NUMBER..... 04S-30E-30-DCA
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... GREENLEE
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... CLIFTON 1162500
 OTHER LOCALITY INFORMATION: SPRINGS AT WEST EDGE OF SAN FRANCISCO RIVER.
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 39.0
 PERTINENT LITHOLOGY..... SPRINGS ISSUE THROUGH GRAVEL.
 COORDINATES
 LAT/LONG... 33-03.20 N 109-17.80 W
 UTM ZONE... 12
 NORTHING... 3658298.
 659036.

RECORD 00059

GEOTHERM FILE ID: 001569H

GEOTHERM_SAMPLE_EILE
 ..NAME OF SAMPLE SOURCE... CLIFTON HOT SPRINGS
 LOCATION
 TOWNSHIP=RANGE
 04S 03OE 30
 SE OF NW
 COORDINATES
 LAT/LONG... 33-03.22 N 109-17.70 W
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... GREENLEE
 GEOTHERM FILE ID: 001569H

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1974/11/19

TEMPERATURE (C)..... 45.

WATER ANALYSIS

PH..... 7.4

RADIATION ANALYSIS

ANALYST AND/OR AGENCY... U.S. EPA--ENVIRONMENTAL MONITORING AND SUPPORT LABORATORY, LAS VEGAS; MONSANTO RES. CORP., MOUND LABORATORY, MIAMISBURG, OHIO.

RADIATION ANALYTICAL COMMENTS... PROCEDURES: EPA HANDBOOK OF RADIOCHEMICAL ANALYTICAL METHODS, 1975; MODIFICATION OF METHODS IN TALVITIE, 1971; STEAM SAMPLING: STOKER AND KRUGER, 1975.

RADIOISOTOPES

K-40.....		TH-230.....	0.11	±/-	0.044
PR-210.....		TH-232.....	0.2	±/-	0.057
RA-226.....	6.9	U-234.....	1.4	±/-	0.15
RA-228.....		U-238.....	0.45	±/-	0.074
RN-222.....	6500.				
					150.

REFERENCE AND IDENTIFICATION

COMPILED BY..... BLISS, JAMES D.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... O'CONNELL AND KAUFMAN, 1976

RECORD 00060

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... EAGLE CREEK SPRING (UNNAMED WARM SPRING)

WELL/SPRING NUMBER..... 04S-28E-35-ABB

LOCATION

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... GREENLEE

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... CLIFTON 1:62500

OTHER LOCALITY INFORMATION: UNCERTAIN WHICH SPRING SAMPLED.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 35.0

DISCHARGE..... 0

OTHER SAMPLE INFORMATION.. SPRINGS ISSUE IN SMALL ADITS AND PITS; LOW FLOW RATES

WATER ANALYSIS

PH..... 8.24

ALKALINITY..... 283. AS HCO3

TOTAL DISSOLVED SOLIDS... 731.

CHARGE IMBALANCE (% DIFF)... 0.1

ANALYSIS IN MG/L

AG.....	CO3.....	LI....	0.39	S....	
AL.....	CR.....	MG....	2.1	SB....	
AS.....	CS.....	MN....	L 0.02		
AU.....	CU.....				
		NA....	190.	SI02.	64.
H.....	F.....	NB....		S04..	45.
HF.....	FE(TOT)..	NI....	L 0.02		
HR.....	GE.....				
CA.....	HCO3.....				
CL.....					
CO.....	K.....	RR....	0.08	ZN....	L 0.01

ISOTOPES (0/100)

DEL D OF WATER.....	-89.0
DEL O(18) OF WATER...	-12.01

QUALIFICATION FIELD..... SPRINGS HAVE "LOW" FLOW RATES.

REFERENCE AND IDENTIFICATION

COMPILED BY..... TESHIN, VICTOR

GEOTHERM FILE ID: 0002947

COORDINATES

LAT/LONG...	33-02.75 N 109-26.37 W
UTM ZONE...	12
NORTHING...	3656848.
	645773.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE... MARINER AND OTHERS, 1977A

RECORD 00061

GEOTHERM FILE ID: 0018125

GEOHEM SAMPLE FILE

NAME OF SAMPLE SOURCE... GILLARD HOT SPRING
WELL/SPRING NUMBER... 055-29E-27-AA

LOCATION
COUNTRY... UNITED STATES
STATE... ARIZONA
COUNTY... GREENLEE
GEOLOGIC PROVINCE...
TOWNSHIP-RANGE
055 029E 27 NE OF NE
B&M: GILA AND SALT RIVER

MAP REFERENCE... GUTHRIE 1:62500
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C)... 82.0

WATER ANALYSIS

PH... 8.04
ALKALINITY... 219.6 AS HCO3
TOTAL DISSOLVED SOLIDS... 1244.
CHARGE IMBALANCE (% DIFF)... 7.2

ANALYSIS IN PPM

AG.... L 0.07	CO3..... N	LI....	1.01
AL.... L 1.10	CR.....	MG....	0.7
AS.... 0.001			
AU....	CU..... L 0.12	MU....	
B.... 0.4	F..... 10.6	NA....	410.8
BA.... L 0.2		SE....	0.014
BE....	FE(TOT). L 0.1	SI02..	97.72
HI....	GA.....		
CA.... 20.	HCO3.... 219.6	S04....	174.7
CA+MG.	HG..... 0.0007	SR....	0.09
CD....	H2S.....		
CL.... 463.6		P04... N	
CO....	K..... 13.2		
		ZN....	0.13

QUALIFICATION FIELD... NO3 EQUALS NO2 + NO3.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE... SWANBERG AND OTHERS, 1977

ISOPIPES 10/0001

COORDINATES

LAT/LONG... 32-58.40 N 109-20.97 W
UTM ZONE... 12
NORTHING... 3649351.
654350.

RECORD 00062

GEOTHERM FILE ID: 0015699

GEOHEM SAMPLE FILE

NAME OF SAMPLE SOURCE... GILLARD HOT SPRINGS
WELL/SPRING NUMBER... 055 029E 27

LOCATION
COUNTRY... UNITED STATES
STATE... ARIZONA
COUNTY... GREENLEE

TOWNSHIP-RANGE
055 029E 27 NE OF NE
B&M: GILA AND SALT RIVER
MAP REFERENCE... GUTHRIE 1:62500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1974/11/19
TEMPERATURE (C)... 82.

WATER ANALYSIS

PH... 7.3

RADIATION ANALYSIS

ANALYST AND/OR AGENCY... U.S. EPA--ENVIRONMENTAL MONITORING AND SUPPORT LABORATORY, LAS VEGAS; MUNSANTU RES. CORP.,
MOUND LABORATORY, MIAMISBURG, OHIO.

COORDINATES

LAT/LONG... 32-58.40 N 109-20.97 W

STATE..... ARIZONA
 COUNTY..... GREENLEE
 MAP REFERENCE..... DUTCH BLUE CREEK 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1978/05/29
 TEMPERATURE (C)..... 55.5
 DISCHARGE..... N L/MIN
 OTHER SAMPLE INFORMATION.. REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED.
 MAJOR ANALYSIS
 PH..... 7.2
 TOTAL DISSOLVED SOLIDS... 677.
 CHARGE IMBALANCE (% DIFF)... 115.3
 ANALYSIS IN PPM
 AL..... CR..... 0.06
 RE..... F..... 37.
 CA..... 21. HCO3..... 34.
 CL..... 332.
 CO..... K..... 2.9
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

ISOIOPES 10/001

RECORD 00065

GEOTHERM FILE 101 0000210

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... HANNA HOT SPRINGS
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... GREENLEE
 MAP REFERENCE..... DUTCH BLUE CREEK 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1979/12/06
 TEMPERATURE (C)..... 54.
 OTHER SAMPLE INFORMATION.. SPRINGS ISSUE 50 M UPSTREAM FROM CONFLUENCE OF HANNA SPRINGS CREEK AND LITTLE BLUE CREEK
 MAJOR ANALYSIS
 DATE/ANALYST..... L/MIN
 PH..... 8.54
 CHARGE IMBALANCE (% DIFF)... 0.3
 ANALYSIS IN MG/L
 AL..... CR..... 0.05
 RE..... L 1. F..... 0.78
 HE..... FE(TOT)... 225.
 CA..... 16. HCO3..... 34.
 CL..... 345.
 CO..... K..... 1.7
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R. H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... MARINER, R. USGS, MENLO PARK

COORDINATES

LAT/LONG... 33-24.0 N 109-09.1 W

ISOIOPES 10/001

RECORD 00066

GEOTHERM FILE 101 0000292

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... HANNAH HOT SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... GREENLEE
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... DUTCH CREEK 1:24000
 OTHER LOCALITY INFORMATION! FIFTY METERS UPSTREAM FROM CONFLUENCE OF HANNAH SPRINGS CREEK AND LITTLE BLUE CREEK
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1979/12/06 MARINER, R., AND EVANS, W.
 SAMPLE NUMBER..... GT38RM79
 TEMPERATURE (C)..... 54.
 DISCHARGE..... T

WATER ANALYSIS
 DATE/ANALYST..... 1980/03 BARZ-S GROUP
 PH..... 8.54
 CHARGE IMBALANCE (% DIFF).... 0.3
 ANALYSIS IN MG/L

AG.....	CO3.....	LI....	0.06
AL.....	CR.....	MG....	0.05
AS.....	CS.....	NA....	225.
H.....	F.....	SI02..	46.
RE.....	FE(TOT)...	SO4...	16.
BI.....	GA.....	SR....	0.1
CA.....	HCO3.....		
CL.....			
CU.....	K.....	RB....	L 0.02

REFERENCE AND IDENTIFICATION
 COMPILED BY..... LIEB, RANDY
 COMPILER AFFILIATION... USGS
 REFERENCE..... *MARINER, R., USGS, MENLU PARK

RECORD 00067

GEOTHERM FILE 10: 0000263

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... HOT SPRING N. OF CLIFTON
 WELL/SPRING NUMBER..... 04S-30E-18-CCD

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... GREENLEE
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... CLIFTON 1:62500
 OTHER LOCALITY INFORMATION! SPRINGS AT EDGE OF SAN FRANCISCO RIVER.

SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 44.0
 PERTINENT LITHOLOGY..... SPRINGS ISSUE THROUGH GRAVEL.

WATER ANALYSIS
 DATE/ANALYST..... 1974/12/00

PH.....	6.58	AS	HCO3
ALKALINITY.....	146.		
TOTAL DISSOLVED SOLIDS...	9696.		
CHARGE IMBALANCE (% DIFF)....	0.7		
ANALYSIS IN MG/L			
AG.....	CO3.....	LI....	4.1
AL.....	CR.....	MG....	21.

ISOLOPES (00/000)
 DEL U OF WATER..... -84.0
 DEL U(18) OF WATER.... -10.95

COORDINATES
 LAT/LONG... 33-04.80 N 109-18.17 W
 UTM ZONE... +12
 NORTHING... 3661060.
 658368.

AS..... 0.5 MN.... 1.0
 AU..... 0.02
 R..... 1.4 NA.... 2700. SI02. 94.
 FE(TOT). L 0.02 NB.... 504.. 62.
 GE..... NI.... 0.06
 790. 146.
 CA..... HCO3.....
 CA+MG. 0.0001
 CL.....
 CU..... K..... 170. 1.2 ZN.... 0.03
 CO.....
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... TESHIN, VICTOR
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... MARINER AND OTHERS, 1977A

RECORD 00068

GEOTHERM FILE ID: 0018035

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... HOT SPRING NORTH OF CLIFTON
 LOCATION

COUNTRY..... UNITED STATES 04S 030E 18 SW
 STATE..... ARIZONA
 COUNTY..... GREENLEE
 GEOLOGIC PROVINCE..

MAP REFERENCE..... CLIFTON 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1978/04/26

TEMPERATURE (C)..... 61.0 L/MIN

DISCHARGE..... N

WATER ANALYSIS

PH..... 7.45

TOTAL DISSOLVED SOLIDS... 7205.

CHARGE IMBALANCE (% DIFF)... 3.2

ANALYSIS IN PPM

AL..... CR..... 13. SI02. 95.
 H..... F..... NA.... 2015. S04.. 58.
 HE..... FE(TOT). NB....
 CA..... 602. HCO3..... 114.
 CL..... 4400.
 CO..... K..... 175.

ISOTOPES 10/001

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

RECORD 00069

GEOTHERM FILE ID: 0018128

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... SEEP
 WELL/SPRING NUMBER..... 04S-30E-19-CA
 LOCATION

COUNTRY..... UNITED STATES 04S 030E 19 NE OF SW
 STATE..... ARIZONA 86M: GILA AND SALT RIVER
 COUNTY..... GREENLEE
 GEOLOGIC PROVINCE..

MAP REFERENCE..... CLIFTON 1:62500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

COORDINATES

LAT/LONG... 33-04.2 N 109-17.9 W
 UTM ZONE... 12
 NORTHING... 3660143.
 658850.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 34.8

WATER ANALYSIS

PH..... 7.74
 ALKALINITY..... 91.5 AS HCO3
 TOTAL DISSOLVED SOLIDS... 12576.

ANALYSIS IN PPM

AG..... CO3..... N
 AL..... CR..... MG... 52.2
 R..... 1.48 F..... NA... 3207.3 SI02.. 81.70 N
 HE..... FE(TOT).. 1.8 NB...
 CA..... 1064.4 HCO3.... 0.34
 CD..... H2S..... 91.5
 CL..... 6459.9 P04... 0.01

CO..... K..... 209.8

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00070

GEOTHERM FILE ID: 0018126

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SPRING (NORTH OF CLIFTON)

WELL/SPRING NUMBER..... 04S-30E-18-CCD

LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... GREENLEE

GEOLOGIC PROVINCE...

MAP REFERENCE..... CLIFTON 1162500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 48.0

WATER ANALYSIS

PH..... 7.86
 ALKALINITY..... 150. AS HCO3
 TOTAL DISSOLVED SOLIDS... 14548.

ANALYSIS IN PPM

AG..... L 0.07 CO3..... N LI... 6.96
 AL..... L 1.1 CR..... MG... 22.9
 AS..... 0.017 CU..... L 0.12 MO... 0.256
 AU..... 1.51 F..... 3.5 NA... SI02.. 131.35
 HA..... 3.55 FE(TOT).. 0.72 NB... N 24.2
 RE..... GA..... NH4...
 HI..... HCO3.... 150. NO3...
 CA..... 925.8 MG..... 0.0035 P04... 0.03
 CA-MG... H2S..... L 0.1
 CD..... 7484.5 CL..... 243.4
 CO..... K..... 209.8

QUALIFICATION FIELD..... P04 CALCULATED FROM P.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

ISOLOPES 10/0001

COORDINATES

LAT/LONG... 33-04.80 N 109-18.17 W
 UTM ZONE... 12
 NORTHING... 3661255.
 658988.

ISOLOPES 10/0001

RECORD 00071

GEOTHERM FILE ID: 0018127

GEOTHERM_SAMPLE-FILE
NAME OF SAMPLE SOURCE... SPRING (WEST OF CLIFTON)
WELL/SPRING NUMBER..... 04S-28E-35-AB8

LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... GREENLEE
GEOLOGIC PROVINCE.. 04
MAP REFERENCE..... CLIFTON 1:62500

OTHER LOCALITY INFORMATION: UNCERTAIN WHICH SPRING SAMPLED.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 42.0

WATER ANALYSIS

P1..... 8.13
ALKALINITY..... 287.9 AS HCO3
TOTAL DISSOLVED SOLIDS... 676.
CHARGE IMBALANCE (% DIFF)... 4.5

ANALYSIS IN PPM

AG..... L 0.07 CO3..... N LI... 0.45

AL..... L 1.1 CR..... MG... 2.2

AS..... 0.030

AU.....

H..... 0.15

HA..... L 0.2

HE.....

RI.....

CA..... 14.4

CA+MG.

CO.....

CL..... 120.7

CO.....

QUALIFICATION FIELD..... NO3 EQUALS NO2 + NO3. P04 CALCULATED FROM P.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... SWANBERG AND OTHERS, 1977

COORDINATES

LAT/LONG... 33-02.75 N 109-26.37 W
UTM ZONE... 12
NORTHING... 3657535.
645660.

ISOTOPES (0/001)

SE... 0.006

SI02... 66.96

S04... 76.8

SR... 0.07

RECORD 00072

GEOTHERM FILE ID: 0018175

GEOTHERM_SAMPLE-FILE
NAME OF SAMPLE SOURCE... WELL AT CLIFTON HOT SPRINGS

WELL/SPRING NUMBER..... 04S-30E-30-DBU

LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... GREENLEE

MAP REFERENCE..... CLIFTON 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1944/01/10

TEMPERATURE (C)..... 48.9

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 16500.

ALKALINITY..... 109. AS HCO3

TOTAL DISSOLVED SOLIDS... 9790.

COORDINATES

LAT/LONG... 33-03.23 N 109-17.75 W

ISOTOPES 10/0001

ANALYSIS IN PPM
 AL..... CR..... MG..... 41.
 H..... F..... NA..... 58.
 RA..... FE+3..... 2750.
 HE..... FE(TOT)..... 153.
 CA..... 860.
 CL..... 5800.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... FEITH AND HEM, 1963

RECORD 00073

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... AQUA CALIENTE SPRINGS WELL
 LOCATION
 COUNTRY..... UNITED STATES 05S 010W 19 NE OF NE
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 MAP REFERENCE..... AQUA CALIENTE 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1974/11/18
 TEMPERATURE (C)..... 38.
 OTHER SAMPLE INFORMATION.. USED AS DRINKING WATER.

WATER ANALYSIS
 PH..... 8.1
 RADIATION ANALYSIS
 ANALYST AND/OR AGENCY... U.S. EPA--ENVIRONMENTAL MONITORING AND SUPPORT LABORATORY, LAS VEGAS; MONSANTO RES. CORP.,
 MOUND LABORATORY, MIAMISBURG, OHIO.
 RADIATION ANALYTICAL COMMENTS... PROCEDURES: EPA HANDBOOK OF RADIOCHEMICAL ANALYTICAL METHODS, 1975; MODIFICATION OF
 METHODS IN TALVITIE, 1971; STEAM SAMPLING: STOKER AND KRUGER, 1975.

RADIOISOTOPES
 K-40..... TH-230..... L 0.022
 PR-210..... TH-232..... L 0.014
 RA-226..... 0.21 +/- 0.076 U-234..... +/- 0.032
 RA-228..... U-238..... +/- 0.024
 RN-222..... 140. +/- 19.

REFERENCE AND IDENTIFICATION
 COMPILED BY..... BLISS, JAMES D.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... O'CONNELL AND KAUFMAN, 1976

RECORD 00074

GEOTHERM_FILE 10: 0015701

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... BUCKHORN MINERAL BATH WELL
 LOCATION
 COUNTRY..... UNITED STATES 01N 006E 23 NE OF SE SE
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1974/11/18
 TEMPERATURE (C)..... 49.
 OTHER SAMPLE INFORMATION.. RECREATIONAL SPA.

COORDINATES
 LAT/LONG... 33-24.97 N 111-42.12 W

WATER ANALYSIS
 PH..... 7.82

RADIATION ANALYSIS

ANALYST AND/OR AGENCY... U.S. EPA--ENVIRONMENTAL MONITORING AND SUPPORT LABORATORY, LAS VEGAS; MONSANTO RES. CORP.,
 MIAMI LABORATORY, MIAMI, FLORIDA, OHIO.
 RADIATION ANALYTICAL COMMENTS... PROCEDURES: EPA HANDBOOK OF RADIOCHEMICAL ANALYTICAL SAMPLING; STOKER AND KRUGER,
 1975.

RADIATION ANALYSIS

K-40.....
 PM-210.....
 RA-226..... 0.048 +/- 0.056
 RA-228.....
 RN-222..... 1200. +/- 72.

REFERENCE AND IDENTIFICATION

COMPILED BY..... BLISS, JAMES D.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... O'CONNELL AND KAUFMAN, 1976

RECORD 00075

GEOTHERM FILE ID: 0018088

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... BUCKHORN MINERAL BATHWELL

WELL/SPRING NUMBER..... 01N-06E-23-AD

LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE... 04

MAP REFERENCE..... BUCKHORN 1124000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... AZ57

TEMPERATURE (C)..... 48.5

WATER ANALYSIS

PH..... 8.07
 TOTAL DISSOLVED SOLIDS... 740.
 CHARGE IMBALANCE (% DIFF)... 1.2

ANALYSIS IN PPM

AG.....	L 0.07	CO3.....	N	LI...	0.36
AL.....	L 1.1	CR.....		MG...	1.1
AS.....	0.019				
AU.....		CU.....	L 0.12	MO...	
H.....	0.44	F.....	5.7	NA...	245.
HA.....	L 0.2			SE...	0.008
HF.....		FE(TOT),	L 0.11	SI02.	37.
HI.....		GA.....			
CA.....	23.	HCO3.....	94.	NB...	
CA+MG.		HG.....	0.0008	NH4...	70.
CU.....		H2S.....		NO3...	0.17
CL.....	307.			PU4...	N
CO.....		K.....	5.9		
				ZN...	0.06

QUALIFICATION FIELD..... NO3 EQUALS NO2 + NO3.

REFERENCE AND IDENTIFICATION

COMPILED BY..... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

COORDINATES

LAT/LONG... 33-25.0 N 111-42.2 W
 UTM ZONE... 12
 NORTHING... 3697509.
 434606.

ISOTOPE (U/200)

RECORD 00076
GEOTHERM FILE ID: 0018038

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... HOT PUMPED WELL (NORTH OF SCOTTSDALE)
WELL/SPRING NUMBER..... 02N-04E-02-DBA

LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... MARICOPA
GEOLOGIC PROVINCE.. 04
MAP REFERENCE..... PARADISE VALLEY 1:24000
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C)..... 39.0

WATER ANALYSIS
PH..... 8.11
ALKALINITY..... 250.2 AS HCO3
TOTAL DISSOLVED SOLIDS... 204.
CHARGE IMBALANCE (% DIFF)... 2.3
ANALYSIS IN PPM
AG..... CO3..... N
AL..... CR.....
R..... 0.43 F..... 0.46 MG... 19.3
RE..... FE(TOT)... L 0.1 NA... 54. SIO2. 30.
CA..... 16. HCO3.... 250.2 NH... S04... 10.6
CD..... H2S..... P04... L 0.03
CL..... 20.5
CO..... K..... 3.1

QUALIFICATION FIELD..... P04 CALCULATED FROM P.
REFERENCE AND IDENTIFICATION
COMPILED BY..... GOODE, H.
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... SWANBERG AND OTHERS, 1977

ISOLOPES 10/2001

COORDINATES

LAT/LONG... 33-32.70 N 111-54.80 W
UTM ZONE... 12
NORTHING... 3711889.
415205.

RECORD 00077
GEOTHERM FILE ID: 0018039

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... HOT PUMPED WELL (NW OF SADDLE MTN.)
WELL/SPRING NUMBER..... 02N-02E-32-BBB

LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... MARICOPA
GEOLOGIC PROVINCE.. 04
MAP REFERENCE..... CORTEZ PEAK 1:62500
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C)..... 35.0

WATER ANALYSIS
PH..... 8.26
ALKALINITY..... 101.3 AS HCO3
TOTAL DISSOLVED SOLIDS... 536.
CHARGE IMBALANCE (% DIFF)... 1.9
ANALYSIS IN PPM
AG..... CO3..... N

COORDINATES

LAT/LONG... 33-28.80 N 113-06.33 W
UTM ZONE... 12
NORTHING... 3706292.
304410.

ISOLOPES 10/2001

AL..... 0.71 CR..... 4.5 MG..... 177.5 S102. 31.
 R..... F..... NA..... S04.. 94.1
 RE..... FE(TOT) 4.78
 CA..... HC03..... 101.3
 CO..... H2S..... 0.03
 CL..... 199.2
 CO..... K..... 4.7
 QUALIFICATION FIELD..... P04 CALCULATED FROM P.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00078

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... HOT PUMPED WELL (SE OF MCMICKEN)
 WELL/SPRING NUMBER..... 02N-01W-31-BBA
 LOCATION

COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... ARIZONA 02N 001W 31 NE OF NW NW
 COUNTY..... MARICOPA B&M: GILA AND SALT RIVER
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... PERRYVILLE 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 33.0
 WATER ANALYSIS

PH..... 8.3
 ALKALINITY..... 101.3 AS HC03
 TOTAL DISSOLVED SOLIDS... 2864.
 CHARGE IMBALANCE (% DIFF).... 4.2
 ANALYSIS IN PPM

ISOTOPES (0/001

AG..... CO3..... N
 AL..... CR..... MG..... 15.9
 R..... 0.87 F..... 2.02 NA..... 939.1 S102. 24.
 RE..... FE(TOT) 1.19 NB..... S04.. 398.6
 CA..... HC03..... 101.3
 CO..... H2S..... 0.03
 CL..... 1246.9
 CO..... K..... 5.9

QUALIFICATION FIELD..... P04 CALCULATED FROM P.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00079

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... HOT PUMPED WELL (WEST OF SADDLE MIN.)
 WELL/SPRING NUMBER..... 01N-08W-06-AAA
 LOCATION

COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... ARIZONA 01N 008W 06 NE OF NE NE
 COUNTY..... MARICOPA B&M: GILA AND SALT RIVER
 GEOLOGIC PROVINCE.. 04

COORDINATES
 LAT/LONG... 33-27.90 N 113-06.62 W
 UTM ZONE... 12
 NORTHING... 3704638.
 303911.

RECORD 0018040

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 50.5
 OTHER SAMPLE INFORMATION.. PUMPED WELL; MINERAL BATHS
 WATER ANALYSIS

PH.....	8.2						
ALKALINITY.....	83.						
TOTAL DISSOLVED SOLIDS...	701.						
CHARGE IMBALANCE (% DIFF)...	3.8						
ANALYSIS IN MG/L							
AG.....	CO3.....	LI....	0.24	S.....			
AL.....	CR.....	MG....	0.6	SB....			
AS.....	CS.....	MN....	L 0.02				
AU.....	CU.....		L 0.01				
R.....	F.....	NA....	220.	SI02.	24.		
HE.....	FE(TOT)...	NB....	0.03	S04..	87.		
HR.....	GE.....	NI....	L 0.02				
CA.....	HC03.....		83.				
CL.....							
CO.....	K.....	RB....	L 0.02	ZN....	0.01		
			2.1				

ISOIOPES 10/2001
 DEL D OF WATER..... -75.3
 DEL O(18) OF WATER... -9.89

REFERENCE AND IDENTIFICATION
 COMPILED BY..... TESHIN, VICTOR
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... MARINER AND OTHERS, 1977A

RECORD 00082

GEOCHEM SAMPLE FILE
 NAME OF SAMPLE SOURCE... HUDSON FARMS, INC. WELL
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 MAP REFERENCE..... HYDER SE 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1974/11/21
 TEMPERATURE (C)..... 45.
 OTHER SAMPLE INFORMATION.. USED IN IRRIGATION.
 WATER ANALYSIS

COORDINATES
 LAT/LONG... 33-01.5 N 113-20.0 W

NAME OF SAMPLE SOURCE... HUDSON FARMS, INC. WELL
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 MAP REFERENCE..... HYDER SE 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1974/11/21
 TEMPERATURE (C)..... 45.
 OTHER SAMPLE INFORMATION.. USED IN IRRIGATION.
 WATER ANALYSIS

PH..... 8.5

RADIATION ANALYSIS

ANALYST AND/OR AGENCY... U.S. EPA--ENVIRONMENTAL MONITORING AND SUPPORT LABORATORY, LAS VEGAS; MUNSANTO RES. CORP.,
 MOUND LABORATORY, MIAMISBURG, OHIO.
 RADIATION ANALYTICAL COMMENTS... PROCEDURES: EPA HANDBOOK OF RADIOCHEMICAL ANALYTICAL METHODS, 1975; MODIFICATION OF
 METHODS IN TALVITIE, 1971; STEAM SAMPLING; STOKER AND KRUGER, 1975.

RADIOISOTOPES
 K-40..... TH-230.... L 0.023
 PH-210.... TH-232.... L 0.015
 RA-226.... U-234.... +/- 0.039
 RA-228.... U-238.... +/- 0.041

REFERENCE AND IDENTIFICATION

COMPILED BY..... BLISS, JAMES O.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... O'CONNELL AND KAUFMAN, 1976

RECORD 00083

GEOTHERM FILE ID: 0018092

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... PUMPED HOT WELL (EAST OF AUGA CALIENTE MTS.)

WELL/SPRING NUMBER..... 055-10W-16-CCA

LOCATION

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... MARICOPA

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... AGUA CALIENTE 1124000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 45.8

WATER ANALYSIS

PH..... 8.47

ALKALINITY..... AS MC03

TOTAL DISSOLVED SOLIDS... 696.

CHARGE IMBALANCE (% DIFF)... 6.1

ANALYSIS IN PPM

AG..... L 0.07

AL..... L 1.10

AS..... 0.051

AU.....

R..... L 0.2

RA..... L 0.12

F..... 3.9

FE(TOT).. 0.57

GA.....

MC03..... 76.9

H2S.....

CL..... 206.

CO..... K..... 2.3

QUALIFICATION FIELD..... NO3 EQUALS NO2 + NO3.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... SWANBERG AND OTHERS, 1977

COORDINATES

LAT/LONG... 32-59.62 N 113-18.28 W

UTM ZONE... 12

NORTHING... 3652717.

284632.

ISOLOPES 10/001

RECORD 00084

GEOTHERM FILE ID: 0018087

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... PUMPED HOT WELL (SOUTH OF BUCKHORN)

WELL/SPRING NUMBER..... 01N-06E-26-CAB

LOCATION

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... MARICOPA

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... BUCKHORN 1124000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 38.8

WATER ANALYSIS

PH..... 8.53

TOTAL DISSOLVED SOLIDS... 384.

CHARGE IMBALANCE (% DIFF)... 11.4

ANALYSIS IN PPM

AG..... CO3..... 8.4

COORDINATES

LAT/LONG... 33-24.05 N 111-42.62 W

UTM ZONE... 12

NORTHING... 3695850.

433975.

ISOLOPES 10/001

AL..... 0.12 CR..... 0.6 MG... 108.3 S102. 29.57
 B..... F..... 1.65 NA... 108.3 S102. 29.57
 RE..... FE(TOT) L 0.11 NB... 108.3 S102. 29.57
 CA..... 14.2 HC03..... 93.9 P04.. N
 CO..... 126.2 H2S.....
 CL..... K..... 2.7
 CO.....
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00085

GEOTHERM FILE ID: 0018045

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... PUMPED WARM WELL (EAST OF THEBA)
 WELL/SPRING NUMBER..... 06S-05W-03-00

LOGATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... THEBA 1162500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 37.5

WATER ANALYSIS

PH..... 7.71
 ALKALINITY..... 65.9 AS HC03
 TOTAL DISSOLVED SOLIDS... 1184.
 CHARGE IMBALANCE (% DIFF)... 2.2

ANALYSIS IN PPM

AG..... L 0.05 CO3..... N LI... 0.28
 AL..... L 1.0 CR..... MG... 0.5
 AS..... 0.037 CU..... L 0.1 MO... SE... 0.001
 AU..... 1.01 F..... 5.79 NA... S102. 27.
 BA..... L 0.4 FE(TOT) L 0.1 NB... S04.. 147.9
 BE..... GA..... NH4.. SR... 0.57
 HI..... 41.3 HC03..... 65.9 NO3.. 9.25
 CA..... CU..... H2S..... L 0.3 P04.. L 0.03
 CL..... 539.2 K..... 6.2 ZN... L 0.02

QUALIFICATION FIELD..... NO3 EQUALS NO2 + NO3. P04 CALCULATED FROM P.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00086

GEOTHERM FILE ID: 0018046

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... PUMPED WARM WELL (SW OF GILA HEND)
 WELL/SPRING NUMBER..... 06S-05W-02-AD

LOGATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... THEBA 1162500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 37.5

WATER ANALYSIS

PH..... 7.71
 ALKALINITY..... 65.9 AS HC03
 TOTAL DISSOLVED SOLIDS... 1184.
 CHARGE IMBALANCE (% DIFF)... 2.2

ANALYSIS IN PPM

AG..... L 0.05 CO3..... N LI... 0.28
 AL..... L 1.0 CR..... MG... 0.5
 AS..... 0.037 CU..... L 0.1 MO... SE... 0.001
 AU..... 1.01 F..... 5.79 NA... S102. 27.
 BA..... L 0.4 FE(TOT) L 0.1 NB... S04.. 147.9
 BE..... GA..... NH4.. SR... 0.57
 HI..... 41.3 HC03..... 65.9 NO3.. 9.25
 CA..... CU..... H2S..... L 0.3 P04.. L 0.03
 CL..... 539.2 K..... 6.2 ZN... L 0.02

QUALIFICATION FIELD..... NO3 EQUALS NO2 + NO3. P04 CALCULATED FROM P.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

COORDINATES
 LAT/LONG... 32-56.2 N 112-44.2 W

STATE..... ARIZONA
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... GILA BEND 1162500
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.
 SAMPLE DESCRIPTION AND CONDITIONS
 --TEMPERATURE (C)..... 36.0
 WATER ANALYSIS
 PH..... 8.49
 ALKALINITY..... 76.9
 TOTAL DISSOLVED SOLIDS... 1428.
 CHARGE IMBALANCE (% DIFF)... 2.3
 ANALYSIS IN PPM
 AG.....
 AL.....
 B..... 0.85
 HE.....
 CA..... 69.1
 CD.....
 CL..... 628.6
 CO.....
 CU.....
 CR.....
 F.....
 FE(TOT)... L 0.1
 CA..... 76.9
 HCO3.....
 H2S.....
 MG.....
 NA.....
 NB.....
 PO4.....
 SI02.....
 S04.....
 SU.....
 T.....
 U.....
 V.....
 W.....
 X.....
 Y.....
 Z.....

B&M: GILA AND SALT RIVER

UTM ZONE... 12
 NORTHING... 3645413.
 337638.

ISOTOPIES (0/001)

50.
 147.9

REFERENCE AND IDENTIFICATION
 COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00087

GEOTHERM FILE ID: 0018070

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... PUMPED WARM WELL (SW OF SIERRA ESTRELLA)
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... MOBILE 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 --TEMPERATURE (C)..... 29.0
 WATER ANALYSIS
 PH..... 7.64
 ALKALINITY..... 159.9
 TOTAL DISSOLVED SOLIDS... 632.
 CHARGE IMBALANCE (% DIFF)... 5.8
 ANALYSIS IN PPM
 AG.....
 AL.....
 B..... 0.21
 HE.....
 CA..... 32.9
 CD.....
 CL..... 174.8
 CO.....
 CU.....
 CR.....
 F.....
 FE(TOT)... L 0.15
 CA..... 159.9
 HCO3.....
 H2S.....
 MG.....
 NA.....
 NB.....
 PO4.....
 SI02.....
 S04.....
 SU.....
 T.....
 U.....
 V.....
 W.....
 X.....
 Y.....
 Z.....

COORDINATES

LAT/LONG... 33-07.43 N 112-21.30 W
 UTM ZONE... 12
 NORTHING... 3665585.
 373590.

ISOTOPIES (0/001)

22.33
 86.4

QUALIFICATION FIELD..... PO4 CALCULATED FROM P.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00088

GEUTHERM FILE ID: 0018069

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... PUMPED WARM WELL (WEST OF SIERRA ESTRELLA-3)
 WELL/SPRING NUMBER..... 03S-01W-04-BAA

COORDINATES
 LAT/LONG... 33-12.2 N 112-21.9 W
 UTM ZONE... +12
 NORTHING... 3674467.
 372773.

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE... 04
 MAP REFERENCE..... MOBILE 1:62500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.
 SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 34.5

WATER ANALYSIS

PH..... 7.77
 ALKALINITY..... 86.6 AS HCO3

TOTAL DISSOLVED SOLIDS... 868.

CHARGE IMBALANCE (% DIFF)... 2.4

ANALYSIS IN PPM

AG.....
 AL.....
 BA.....
 BR.....
 CA.....
 CD.....
 CL.....
 CO.....
 CR.....
 CU.....
 FE.....
 FE(TOT)... 0.72
 NI.....
 NA.....
 NH.....
 NO.....
 PO4... 0.06
 SI02... 18.93
 S04... 112.4

ISOLOPES 10/2001

QUALIFICATION FIELD,.... P04 CALCULATED FROM P.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00089

GEUTHERM FILE ID: 0018068

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... PUMPED WARM WELL (WEST OF SIERRA ESTRELLA-2)
 WELL/SPRING NUMBER..... 02S-02W-25-CCC

COORDINATES
 LAT/LONG... 33-13.1 N 112-25.5 W
 UTM ZONE... +12
 NORTHING... 3676205.
 367203.

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE... 04
 MAP REFERENCE..... MOBILE 1:62500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.
 SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 32.8

WATER ANALYSIS

PH..... 7.84
 ALKALINITY..... 114.7 AS HCO3

TOTAL DISSOLVED SOLIDS... 996.

CHARGE IMBALANCE (% DIFF)... 3.1

ANALYSIS IN PPM

AG.....
 AL.....
 BA.....
 BR.....
 CA.....
 CD.....
 CL.....
 CO.....
 CR.....
 CU.....
 FE.....
 FE(TOT)... 0.72
 NI.....
 NA.....
 NH.....
 NO.....
 PO4... 0.06
 SI02... 18.93
 S04... 112.4

ISOLOPES 10/2001

AL..... 0.27 CR..... 5.5
 H..... F..... 2.58 MG... 295.9 22.33
 HE..... FE(TQT) L 0.15 NA... S102. S04.. 168.1
 CA..... HC03..... 114.7
 CD..... H2S.....
 CL..... 352.4 P04.. N
 CO..... K..... 8.6

REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00090

GEOTHERM FILE ID: 0018067

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... PUMPED WARM WELL (WEST OF SIERRA ESTRELLA)
 WELL/SPRING NUMBER..... 02S-02W-23-CCC

COORDINATES

33-14.00 N 112-26.58 W
 LAT/LONG...
 UTM ZONE... 12
 NORTING... 3677891.
 365517.

TOWNSHIP-RANGE

02S 002W 23 SW OF SW SW
 86M: GILA AND SALT RIVER

COUNTRY..... UNITED STATES
 STATE..... ARIZONA

COUNTY..... MARICOPA

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... MOBILE 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 31.2

WATER ANALYSIS

PH..... 8.13 AS HC03
 ALKALINITY..... 90.3
 TOTAL DISSOLVED SOLIDS... 736.
 CHARGE IMBALANCE (% DIFF)... 5.7

ANALYSIS IN PPM

AG..... CO3..... N

AL..... CR.....

H..... 0.23 F..... 3.39 MG... 1.6

HE..... FE(TQT) 0.18 NA... 245.5

CA..... 14.8 HC03..... 90.3 S102. 19.38

CD..... H2S..... P04.. N S04.. 104.2

CL..... 256.3

CO..... K..... 6.2

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

ISOTOPES (02/007)

RECORD 00091

GEOTHERM FILE ID: 0018090

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... PUMPED WELL (NW OF MARICOPA MTS.)

WELL/SPRING NUMBER..... 02S-04W-26-8D

TOWNSHIP-RANGE

02S 004W 26 SE OF NW
 86M: GILA AND SALT RIVER

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... MARICOPA

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... COTTON CENTER 1:62500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 35.2

COORDINATES

33-13.6 N 112-38.6 W
 LAT/LONG...
 UTM ZONE... 12
 NORTING... 3677427.
 346869.

WATER ANALYSIS

PH..... 7.85
ALKALINITY..... 150.1 AS HCO3
TOTAL DISSOLVED SOLIDS..... 2008.
CHARGE IMBALANCE (% DIFF).... 5.9
ANALYSIS IN PPM

AG..... CO3..... N 0.42
AL..... CR..... 3.5

AS..... 0.021

AU..... CU..... SE..... 0.018

R..... 1.02 F..... 4.95 S102. 22.57

RE..... FE(TOT) L 0.11 NB..... S04.. 168.1

HI..... GA..... NH4.. 2.07

CA..... 113.2 HCO3..... 150.1

CD..... H2S..... 28.7

CL..... 889.1 P04.. N

CO..... K..... 10.9 ZN... L 0.03

QUALIFICATION FIELD..... NO3 EQUALS NO2 + NO3.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00092

GEOTERM_SAMPLE_FILE

NAME OF SAMPLE SOURCE... PUMPED WELL (NW OF MARICOPA MTS.-2)

WELL/SPRING NUMBER..... 035-04W-15-DAA

LOCATION

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... MARICOPA

GEOLOGIC PROVINCE..

MAP REFERENCE..... COTTON CENTER 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 28.2

WATER ANALYSIS

PH..... 7.67

ALKALINITY..... 128.1 AS HCO3

TOTAL DISSOLVED SOLIDS..... 1848.

CHARGE IMBALANCE (% DIFF).... 6.5

ANALYSIS IN PPM

AG..... CO3..... N

AL..... CR.....

R..... 1.4 F..... 4.44 MG... 6.0

FE..... 0.17 NA... 480.7

CA..... 117.8 HCO3..... 128.1 S102. 226.08

CD..... H2S..... P04.. N

CL..... 714.

CO..... K..... 11.3

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00093

GEOTERM_SAMPLE_FILE

GEOTHERM FILE ID: 0018093

ISOTOPES 10/001

COORDINATES

LAT/LONG... 33-09.98 N 112-39.00 W

UTM ZONE... 12

NORTHING... 3670784.

346142.

ISOTOPES 10/001

NAME OF SAMPLE SOURCE... PUMPED WELL (NW OF MARICOPA MTS-3)

WELL/SPRING NUMBER..... 03S-04W-22-000

LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... MARICOPA
GEOLOGIC PROVINCE..

MAP REFERENCE..... COTTON CENTER 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 28.5

WATER ANALYSIS

PH..... 7.5
ALKALINITY..... 131.8 AS HCO3
TOTAL DISSOLVED SOLIDS... 3276.
CHARGE IMBALANCE (% DIFF)... 7.2

ANALYSIS IN PPM

AG.....	L 0.07	CO3.....	N	LI....	0.51
AL.....	L 1.1	CR.....		MG....	16.8
AS.....	0.034				
AU.....		CU.....	L 0.12	MO....	
B.....	1.76	F.....	2.9	NA....	606.4
BA.....	0.65			SE....	0.063
BE.....		FE(TOT)...	0.13	SI02..	26.08
BI.....		GA.....		S04....	498.1
CA.....	272.7	HCO3.....	131.9	SR....	4.06
CA+MG..		MG.....	0.0011		
CD.....		H2S.....			
CL.....	1149.			P04... N	
CO.....		K.....	16.		
				ZN....	0.07

QUALIFICATION FIELD..... NO3 EQUALS NO2 + NO3.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00094

GEOTHERM FILE ID: 0018053

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... PUMPED WELL (NW OF SADDLE MTN.-3)

WELL/SPRING NUMBER..... 02N-09W-34-088

LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... MARICOPA
GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... CORTÉZ PEAK 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 40.0

WATER ANALYSIS

PH..... 8.03
ALKALINITY..... 209.3 AS HCO3
TOTAL DISSOLVED SOLIDS... 544.
CHARGE IMBALANCE (% DIFF)... 0.8

ANALYSIS IN PPM

AG.....		CO3.....	N	MG....	10.
AL.....		CR.....		NA....	153.6
B.....	0.44	F.....	1.06	SI02..	58.

COORDINATES

LAT/LONG... 33-08.75 N 112-39.00 W
UTM ZONE... +12
NORTHING... 3668382.
346104.

ISOLOPES 10/001

COORDINATES

LAT/LONG... 33-28.30 N 113-10.17 W
UTM ZONE... +12
NORTHING... 3705492.
298350.

ISOLOPES 10/001

HE.... 17.4 FE(TOT). L 0.1 NB... 504.. 160.9
 CA.... HCO3.... 209.3
 CD.... H2S.... 0.34
 CL.... 57.1
 CO.... K..... 5.5
 QUALIFICATION FIELD..... P04 CALCULATED FROM P.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00095

GEOTHERM FILE 10: 0018089

GEOTHERM SAMPLE FILE PUMPED WELL (SE OF BUCKEYE HILLS)

NAME OF SAMPLE SOURCE... 03S-04E-09-DA

WELL/SPRING NUMBER.....

LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE...
 MAP REFERENCE..... COTTON CENTER 1:62500

COORDINATES

LAT/LONG... 33-10.7 N 112-40.1 W
 UTM ZONE... +12
 NORTHING... 3672105.
 344453.

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 30.0

WATER ANALYSIS

PH..... 7.73
 ALKALINITY..... 163.5 AS HCO3
 TOTAL DISSOLVED SOLIDS... 2008.
 CHARGE IMBALANCE (% DIFF)... 5.8

ISOTOPE 10/001

ANALYSIS IN PPM
 AG.....
 AL.....
 AR..... 1.38
 BA.....
 BE.....
 BF..... 3.48
 BG.....
 BH.....
 BI..... 0.13
 BJ.....
 BK..... 167.3
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REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00096

GEOTHERM FILE 10: 0018052

GEOTHERM SAMPLE FILE PUMPED WELL (SOUTH OF TONOPAH)

NAME OF SAMPLE SOURCE... 02N-07W-26-ADB

WELL/SPRING NUMBER.....

LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE...
 MAP REFERENCE..... COTTON CENTER 1:62500

COORDINATES

LAT/LONG... 33-29.40 N 112-56.67 W
 UTM ZONE... +12
 NORTHING... 3707131.
 318215.

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 49.4

WATER ANALYSIS

PH..... 8.0 AS HCO3
 ALKALINITY..... 102.5
 TOTAL DISSOLVED SOLIDS... 612.
 CHARGE IMBALANCE (% DIFF)... 4.1
 ANALYSIS IN PPM
 AG.... L 0.06 N
 AL.... L 1.0
 AS.... 0.074
 AU....
 H.... 0.73
 HA.... L 0.4
 HE....
 HI....
 CA.... 15.
 CA+MG.
 CD....
 CL.... 243.9
 CO....
 CU.... L 0.1
 F.... 5.07
 FE(TOT)... 8.74
 GA....
 HCO3.... 102.5
 HG.... 0.0005
 H2S.... L 0.1
 K.... 2.3
 LI.... 0.29
 MG.... 0.7
 MU....
 NA.... 229.9
 NH4.... 0.2
 NO3.... 0.29
 P04.... 0.12
 SE.... 0.005
 SI02... 23.5
 SR.... 79.2
 S04.... 0.02
 ZN.... 0.24

QUALIFICATION FIELD..... NO3 EQUALS NO2 + NO3. P04 CALCULATED FROM P.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00097

GEOTHERM FILE ID: 0018043

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... PUMPED WELL (WEST OF GLENDALE)
 WELL/SPRING NUMBER..... 02N-01E-02-DDD

TOWNSHIP-RANGE

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE...
 MAP REFERENCE..... GLENDALE 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 30.0

COORDINATES

LAT/LONG.... 33-32.28 N 112-13.22 W
 UTM ZONE... 12
 NORTHING... 3711443.
 386724.

WATER ANALYSIS

PH..... 8.38 AS HCO3
 ALKALINITY..... 126.9
 TOTAL DISSOLVED SOLIDS... 464.
 CHARGE IMBALANCE (% DIFF)... 8.3
 ANALYSIS IN PPM
 AG.... N
 AL....
 H.... 0.35
 HE....
 CA.... 31.3
 CD....
 CL.... 95.4
 CO....
 CU....
 F.... L 0.2
 FE(TOT)... L 0.1
 HCO3.... 126.9
 H2S....
 K.... 3.9
 LI....
 MG.... 21.
 NA.... 62.3
 NH4....
 NO3....
 P04.... 0.03
 SE....
 SI02... 22.5
 S04.... 40.3
 SR....
 S04....
 ZN....

QUALIFICATION FIELD..... NO3 EQUALS NO2 + NO3. P04 CALCULATED FROM P.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

ISOTOPES (0/001)

ISOTOPES (0/001)

RECORD 00098

GEOTHERM FILE ID: 0018238

COORDINATES
LAT/LONG... 33-23.9 NNAME OF SAMPLE SOURCE... UNNAMED WELL
WELL/SPRING NUMBER... 02N-01W-30-CAA2
LOCATION

TOWNSHIP-RANGE

02N 001W 30
B&M: GILA AND SALT RIVERCOUNTRY... UNITED STATES
STATE... ARIZONA
COUNTY... MARICOPA

MAP REFERENCE... PERRYVILLE 1124000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1956/07/17

TEMPERATURE (C)... 31.1

WELL DEPTH (M)... 172.

DISCHARGE... 6472. L/MIN.

WATER ANALYSIS

SPECIFIC CONDUCTANCE... 1750. AS HCO3

ALKALINITY... 181.

TOTAL DISSOLVED SOLIDS... 905.

ANALYSIS IN PPM

AG... CO3... N

AL... CR... MG... 59.

R... F... NA... 111.

BE... FE(TOT)... NB... 170.

CA... HC03... NU3... 22.

CL... 106. 181.

CL... 256.

OTHER ANALYTICAL DATA... CAC03=507., SAR=2.1

QUALIFICATION FIELD... DISCHARGE MEASURED 8/41.

REFERENCE AND AFFILIATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE... KAM AND OTHERS, 1966

ISOTOPES 10/001

RECORD 00099

GEOTHERM FILE ID: 0018236

COORDINATES
LAT/LONG... 33-30.05 N 112-24.50 WNAME OF SAMPLE SOURCE... UNNAMED WELL
WELL/SPRING NUMBER... 02N-01W-19-CBB2
LOCATION

TOWNSHIP-RANGE

02N 001W 19
B&M: GILA AND SALT RIVERCOUNTRY... UNITED STATES
STATE... ARIZONA
COUNTY... MARICOPA

MAP REFERENCE... WADDELL 1124000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1963/04/30

TEMPERATURE (C)... 32.2

WELL DEPTH (M)... 294.

DISCHARGE... 6510. L/MIN.

WATER ANALYSIS

SPECIFIC CONDUCTANCE... 900. AS HCO3

ALKALINITY... 156.

TOTAL DISSOLVED SOLIDS... 670.

ANALYSIS IN PPM

AG... CO3... N

AL... CR... MG... 33.

ISOTOPES 10/001

H..... NA... 90. 118.
 FE(TOT)..... S04..
 CA..... 156. 28.
 CL..... 184.
 OTHER ANALYTICAL DATA... CAC03=288., SAR=1.5
 QUALIFICATION FIELD..... DISCHARGE MEASURED 7/64.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

RECORD 00100
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL (EAST OF CENTENIAL FARMS)
 WELL/SPRING NUMBER..... 01N-10W-01-DCC
 LOCATION

COUNTRY..... UNITED STATES 01N 01W 01 SW OF SW SE
 STATE..... ARIZONA 86M; GILA AND SALT RIVER
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... CORTEZ PEAK 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1953/06/00
 TEMPERATURE (C)..... 33.0
 WELL DEPTH (M)..... 244.
 WATER ANALYSIS
 SPECIFIC CONDUCTANCE..... 1100. AS HC03
 ALKALINITY..... 327.
 ANALYSIS IN MG/L
 AG..... CO3..... N 327.
 CA..... CL..... 98.
 COORDINATES
 LAT/LONG... 33-26.893N 113-14.627W
 UTM ZONE... 12
 NORTHING... 3703037.
 291436.

ISOLOPES 10/001

REFERENCE AND IDENTIFICATION
 COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DENIS, 1971

RECORD 00101
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL (EAST OF CITRUS PARK)
 WELL/SPRING NUMBER..... 02N-02W-02-ABA2
 LOCATION

COUNTRY..... UNITED STATES 02N 002W 01 NE OF NW NE
 STATE..... ARIZONA 86M; GILA AND SALT RIVER
 COUNTY..... MARICOPA
 MAP REFERENCE..... WADDELL 1:24000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1952/01/25
 TEMPERATURE (C)..... 32.2
 WELL DEPTH (M)..... 323.
 DISCHARGE..... 4807. L/MIN.
 WATER ANALYSIS
 SPECIFIC CONDUCTANCE..... 490. AS HC03
 ALKALINITY..... 120.

ISOLOPES 10/001TOTAL DISSOLVED SOLIDS... 356.
ANALYSIS IN PPM

AG.....	CO3..... N		
AL.....	CR.....	MG...	4.
H.....	F.....	NA...	98.
BE.....	FE(TOT)...	NB...	
CA.....	HC03.....		75.
CL.....			

OTHER ANALYTICAL DATA... CAC03=36., SAR=7.1
 QUALIFICATION FIELD,.... DISCHARGE MEASURED 11/51.
 REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

RECORD 00102

GEOTHERM FILE ID: 0018270

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL (NE OF BEARDSLEY)
 WELL/SPRING NUMBER..... 04N-01W-29-AAA

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA

MAP REFERENCE..... MCMICKEN DAM 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1962/09/10

TEMPERATURE (C)..... 32.7

WELL DEPTH (M)..... 329.

DISCHARGE..... 3974. L/MIN.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 560.

ALKALINITY..... 151. AS HC03

TOTAL DISSOLVED SOLIDS... 320.

ANALYSIS IN PPM

AL.....	CR.....	MG...	6.
H.....	F.....	NA...	75.
BE.....	FE(TOT)...	NB...	
CA.....	HC03.....		59.
CL.....			

OTHER ANALYTICAL DATA... CAC03=84., SAR=3.6

QUALIFICATION FIELD,.... DISCHARGE MEASURED 9/64.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

RECORD 00103

GEOTHERM FILE ID: 0018269

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL (NE OF BEARDSLEY)
 WELL/SPRING NUMBER..... 04N-01W-29-AAA

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA

MAP REFERENCE..... MCMICKEN DAM 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTION..... 1939/05/02
 TEMPERATURE (C)..... 32.7
 WELL DEPTH (M)..... 167.
 DISCHARGE..... 7343. L/MIN.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 560.
 ALKALINITY..... 227. AS HCO3
 TOTAL DISSOLVED SOLIDS... 308.
 ANALYSIS IN PPM

AG.....	CO3..... N	
AL.....	CR.....	MG... 8.
B.....	F.....	NA... 67.
HE.....	FE(TOT)...	NB...
CA..... 38.	HC03..... 227.	S04... 30.
CL..... 38.		

OTHER ANALYTICAL DATA... CAC03=128., SAR=2.6
 QUALIFICATION FIELD.... DISCHARGE MEASURED 4/39.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

ISOTOPE 10/001

RECORD 00104

GEOTERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL (NE OF CITRUS PARK)
 WELL/SPRING NUMBER..... 03N-02W-25-BAA

LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA

MAP REFERENCE

WADDELL 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1962/09/10
 TEMPERATURE (C)..... 32.7
 WELL DEPTH (M)..... 305.
 DISCHARGE..... 2612. L/MIN.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 330.
 ALKALINITY..... 112. AS HCO3
 TOTAL DISSOLVED SOLIDS... 185.
 ANALYSIS IN PPM

AL.....	CR.....	MG... 3.
B.....	F..... 0.8	NA... 53.
HE.....	FE(TOT)...	NB...
CA..... 6.	HC03..... 112.	N03... 5.
CL..... 19.		

OTHER ANALYTICAL DATA... CAC03=28., SAR=4.4
 QUALIFICATION FIELD.... DISCHARGE MEASURED 9/64.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

ISOTOPE 10/001

RECORD 00105

GEOTERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL (NE OF CITRUS PARK)

GEOTHERM FILE ID: 0018260

COORDINATES

LAT/LONG... 33-34.85 N 112-25.08 W

GEOTHERM FILE ID: 0018259

WELL/SPRING NUMBER..... 03N-02W-25-BAA TOWNSHIP-RANGE
 LOCATION 03N 02W 25 NE OF NE NW
 COUNTRY..... UNITED STATES B&M: GILA AND SALT RIVER
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 MAP REFERENCE..... WADDELL 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1939/00/00
 TEMPERATURE (C)..... 32.7
 WELL DEPTH (M)..... 153.
 DISCHARGE..... 9765. L/MIN.
 WATER ANALYSIS
 SPECIFIC CONDUCTANCE..... 330. AS HC03
 ALKALINITY..... 137.
 TOTAL DISSOLVED SOLIDS... 267.
 ANALYSIS IN PPM
 AG..... CO3..... N NA... 62. 30.
 R..... F..... NB...
 RE..... FE(TOT)..... S04...
 CA..... 15. HC03..... 137.
 CL..... 20.
 QUALIFICATION FIELD,.... DISCHARGE MEASURED 11/39.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

RECORD 00106

GEOTHERM FILE ID: 0018130

WELL/SPRING NUMBER..... 02N-09W-14-BBB TOWNSHIP-RANGE
 LOCATION 02N 09W 14 NW OF NW NW
 COUNTRY..... UNITED STATES B&M: GILA AND SALT RIVER
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 MAP REFERENCE..... BIGHORN MOUNTAINS 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1955/03/00
 TEMPERATURE (C)..... 32.0
 WELL DEPTH (M)..... 466.
 WATER ANALYSIS
 PH..... 7.1
 SPECIFIC CONDUCTANCE..... 738. AS HC03
 ALKALINITY..... 154.
 TOTAL DISSOLVED SOLIDS... 460.
 ANALYSIS IN PPM
 AG..... CO3..... N MG... 21.
 AL..... CR..... 1.3 NA... 41.
 B..... F..... NA... S04...
 BA..... FE+3... NA+K... 111.
 HE..... FE(TOT)..... NB...
 CA..... 25. HC03..... 154. NO3...
 CL..... 78.
 REFERENCE AND IDENTIFICATION
 COMPILER HY..... GOODE, H.

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... DENIS, 1971

RECORD 00107

GEOTHERM FILE ID: 0018262

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL (NW OF BEARUSELY)
WELL/SPRING NUMBER..... 04N-01W-19-BAA
LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... MARICOPA
MAP REFERENCE..... MCMICKEN DAM 1:24000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1962/10/04
TEMPERATURE (C)..... 31.1
WELL DEPTH (M)..... 329.
DISCHARGE..... 4428. L/MIN.

COORDINATES

LAT/LONG... 33-40.92 N 112-24.17 W

TOWNSHIP-RANGE

04N 001W 19 NE OF NE NW
B&M: GILA AND SALT RIVER

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 510. AS HC03
ALKALINITY..... 153.
TOTAL DISSOLVED SOLIDS... 380.
ANALYSIS IN PPM

ISOTOPES 10/001

AG..... N
AL..... MG... 8.
R..... NA... 67.
HE..... NB...
CA..... 22. HC03... 153. NO3... 3.
CL..... 35. S04... 52.

OTHER ANALYTICAL DATA... CAC03=88. SAR=3.1
QUALIFICATION FIELD.... DISCHARGE MEASURED 9/64.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... KAM AND OTHERS, 1966

RECORD 00108

GEOTHERM FILE ID: 0018261

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL (NW OF BEARUSELY)
WELL/SPRING NUMBER..... 04N-01W-19-BAA
LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... MARICOPA
MAP REFERENCE..... MCMICKEN DAM 1:24000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1939/05/02
TEMPERATURE (C)..... 31.1
WELL DEPTH (M)..... 180.
DISCHARGE..... 6927. L/MIN.

COORDINATES

LAT/LONG... 33-40.92 N 112-24.17 W

TOWNSHIP-RANGE

04N 001W 19 NE OF NE NW
B&M: GILA AND SALT RIVER

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 510. AS HC03
ALKALINITY..... 163.
TOTAL DISSOLVED SOLIDS... 331.
ANALYSIS IN PPM

ISOTOPES 10/001

AG..... N

AL..... CR..... MG... 4.
 B..... F..... NA... 62.
 RE..... FE(TOT)... S04... 30.
 CA..... HCO3..... NO3... 2.7
 CL..... 30. 163.
 CL..... 42.
 OTHER ANALYTICAL DATA... CAC03=92., SAR=4.2
 QUALIFICATION FIELD..... DISCHARGE MEASURED 9/64.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

RECORD 00109
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL (NW OF BEARDSLEY-2)
 WELL/SPRING NUMBER..... 04N-01W-20-8CB
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 MAP REFERENCE..... MCMICKEN DAM 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1962/09/10
 TEMPERATURE (C)..... 32.7
 WELL DEPTH (M)..... 305.
 DISCHARGE..... 2763. L/MIN.

COORDINATES
 LAT/LONG... 33-40.70 N 112-23.60 W

TOWNSHIP-RANGE
 04N 001W 20 NW OF SW NW
 86M; GILA AND SALT RIVER

WATER ANALYSIS
 SPECIFIC CONDUCTANCE..... 570.
 ALKALINITY..... 144.
 TOTAL DISSOLVED SOLIDS... 337.
 ANALYSIS IN PPM

AL..... CR..... MG... 10.
 H..... F..... NA... 71.
 RE..... FE(TOT)... S04... 69.
 CA..... HCO3..... NO3... 4.
 CL..... 26. 144.
 CL..... 45.

ISOIOPES 10/001

OTHER ANALYTICAL DATA... CAC03=106., SAR=3.0
 QUALIFICATION FIELD..... DISCHARGE MEASURED 9/64.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

RECORD 00110
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL (NW OF BEARDSLEY-2)
 WELL/SPRING NUMBER..... 04N-01W-20-8CB
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 MAP REFERENCE..... MCMICKEN DAM 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1939/05/02
 TEMPERATURE (C)..... 32.7
 WELL DEPTH (M)..... 168.

COORDINATES
 LAT/LONG... 33-40.70 N 112-23.60 W

TOWNSHIP-RANGE
 04N 001W 20 NW OF SW NW
 86M; GILA AND SALT RIVER

DISCHARGE..... 6056. L/MIN.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 570.
 ALKALINITY..... 168. AS HCO3
 TOTAL DISSOLVED SOLIDS... 428.
 ANALYSIS IN PPM

AG..... CO3..... N
 AL..... CR..... MG.... 8.
 B..... F..... NA.... 95.
 RE..... FE(TOT). NB.... 504.. 90.
 CA..... 23. MC03.... 168. NO3.. 3.7
 CL..... 44.

OTHER ANALYTICAL DATA... CAC03=90., SAR=4.4
 QUALIFICATION FIELD..... DISCHARGE MEASURED 4/39.

REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

ISOTOPES 10/001

RECORD 00111

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL (NW OF BEARDSLEY-3)
 WELL/SPRING NUMBER..... 04N-01W-20-CCD

LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 MAP REFERENCE..... MCMICKEN DAM 1124000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1939/03/12
 TEMPERATURE (C)..... 33.3
 WELL DEPTH (M)..... 176.
 DISCHARGE..... 7608. L/MIN.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 600.
 ALKALINITY..... 171. AS HCO3
 TOTAL DISSOLVED SOLIDS... 452.
 ANALYSIS IN PPM

AL..... CR..... MG.... 4.
 B..... F..... NA.... 101.
 RE..... FE(TOT). NB.... 504.. 100.
 CA..... 30. MC03.... 171.

CL..... 46.

OTHER ANALYTICAL DATA... CAC03=92., SAR=4.6

QUALIFICATION FIELD..... DISCHARGE MEASURED 5/39.

REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

ISOTOPES 10/001

RECORD 00112

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL (NW OF BEARDSLEY-3)
 WELL/SPRING NUMBER..... 04N-01W-20-CCD

LOCATION

TOWNSHIP=RANGE

COORDINATES

GEOTHERM FILE ID: 0018266

LAT/LONG... 33-40.1 N 112-23.4 W

COUNTRY..... UNITED STATES 04N 001W 20 SE OF SW SW
STATE..... ARIZONA B&M: GILA AND SALT RIVER

COUNTY..... MARICOPA
MAP REFERENCE..... MCHICKEN DAM 1:24000

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1962/10/04

TEMPERATURE (C)..... 33.3
WELL DEPTH (M)..... 364.

DISCHARGE..... 4353. L/MIN.
WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 600. AS HCO3

ALKALINITY..... 148.
TOTAL DISSOLVED SOLIDS... 363.

ANALYSIS IN PPM

AL.....	CR.....	MG...	11.
HE.....	F.....	NA...	75.
CA..... 27.	FE(TQT)...	NB...	S04.. 74.
CL..... 49.	HCO3.....	NU3..	7.

OTHER ANALYTICAL DATA... CAC03=112., SAR=3.1
QUALIFICATION FIELD..... DISCHARGE MEASURED 9/64.

REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... KAM AND OTHERS, 1966

ISOLOPES (02001)

RECORD 00113

GEOTHERM FILE 10: 0018268

NAME OF SAMPLE SOURCE... UNNAMED WELL (NW OF LIZARD ACRES)
WELL/SPRING NUMBER..... 04N-01W-28-BAA

LOCATION

COUNTRY..... UNITED STATES 04N 001W 28 NE OF NE NW
STATE..... ARIZONA B&M: GILA AND SALT RIVER

COUNTY..... MARICOPA
MAP REFERENCE..... CALDERWOOD BUTTE 1:24000

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1962/10/11

TEMPERATURE (C)..... 31.1
WELL DEPTH (M)..... 315.

DISCHARGE..... 4731. L/MIN.
WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 530. AS HCO3

ALKALINITY..... 203.
TOTAL DISSOLVED SOLIDS... 358.

ANALYSIS IN PPM

AL.....	CR.....	MG...	10.
HE.....	F.....	NA...	60.
CA..... 31.	FE(TQT)...	NB...	S04.. 34.
CL..... 30.	HCO3.....	NU3..	4.

OTHER ANALYTICAL DATA... CAC03=118., SAR=2.4
QUALIFICATION FIELD..... DISCHARGE MEASURED 9/64.

REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... KAM AND OTHERS, 1966

ISOLOPES (02001)

COORDINATES

LAT/LONG... 33-40.03 N 112-22.08 W

RECORD 00114

GEOTHERM FILE ID: 0018267

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL (NW OF LIZARD ACRES)
WELL/SPRING NUMBER..... 04N-01W-28-BAA

LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... MARICOPA
MAP REFERENCE..... CALDERWOOD BUTTE 1:24000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1939/11/04
TEMPERATURE (C)..... 31.1
WELL DEPTH (M)..... 160.
DISCHARGE..... 9084.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 530.
ALKALINITY..... 224.
TOTAL DISSOLVED SOLIDS... 390.
ANALYSIS IN PPM
AG.....
AL.....
H.....
RE.....
CA..... 53.
CL..... 42.
CO3..... N
CR.....
F.....
FE(TOT).....
HC03..... 224.
MG... 11.
NA... 40.
NB...
NO3... 6.
S04... 20.

ISOTOPES 10/001

OTHER ANALYTICAL DATA... CAC03=177., SAR=1.3
REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... KAM AND OTHERS, 1966

RECORD 00115

GEOTHERM FILE ID: 0018248

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL (SE OF MCMICKEN)
WELL/SPRING NUMBER..... 02N-02W-25-DAA2

LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... MARICOPA
MAP REFERENCE..... PERRYVILLE 1:24000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1963/04/30
TEMPERATURE (C)..... 33.3
DISCHARGE..... 2839. L/MIN.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 825.
ALKALINITY..... 127.
TOTAL DISSOLVED SOLIDS... 519.
ANALYSIS IN PPM
AG.....
AL.....
H.....
RE.....
CA..... 18.
CO3..... N
CR.....
F.....
FE(TOT).....
HC03..... 127.
MG... 5.
NA... 141.
NB...
NO3... 18.
S04... 504..
112.

ISOTOPES 10/001

CL..... 98.
 OTHER ANALYTICAL DATA... CAC03=66., SAR=7.5
 QUALIFICATION FIELD..... DISCHARGE MEASURED 10/64.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

RECORD 00116
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL (SE OF MCMICKEN)
 WELL/SPRING NUMBER..... 02N-02W-25-DAA2
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 MAP REFERENCE..... PERRYVILLE 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1951/05/05
 TEMPERATURE (C)..... 33.3
 WELL DEPTH (M)..... 217.
 DISCHARGE..... 2839. L/MIN.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 825.
 ALKALINITY..... AS HCO3
 TOTAL DISSOLVED SOLIDS... 183.
 ANALYSIS IN PPM
 AG..... CO3..... N
 AL..... CR..... MG... 19.
 B..... F..... NA... 183.
 BE..... FE(TOT)... NB... 504... 230.
 CA..... HCO3..... 183. NO3... 31.

ISOLOPES 10/001

CL..... 108.
 OTHER ANALYTICAL DATA... CAC03=177., SAR=6.0
 QUALIFICATION FIELD..... DISCHARGE MEASURED 10/64.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

RECORD 00117
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL (SOUTH OF CASEY PARK-2)
 WELL/SPRING NUMBER..... 02N-01W-30-CAA2
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 MAP REFERENCE..... PERRYVILLE 1:24000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1963/04/30
 TEMPERATURE (C)..... 31.1
 WELL DEPTH (M)..... 172.
 DISCHARGE..... 6471. L/MIN.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 825.
 ALKALINITY..... AS HCO3
 TOTAL DISSOLVED SOLIDS... 183.
 ANALYSIS IN PPM
 AG..... CO3..... N
 AL..... CR..... MG... 19.
 B..... F..... NA... 183.
 BE..... FE(TOT)... NB... 504... 230.
 CA..... HCO3..... 183. NO3... 31.

CL..... 108.
 OTHER ANALYTICAL DATA... CAC03=177., SAR=6.0
 QUALIFICATION FIELD..... DISCHARGE MEASURED 10/64.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

ISOTOPES 10/001

SPECIFIC CONDUCTANCE..... 1750.
 ALKALINITY..... 117. AS HCO3
 TOTAL DISSOLVED SOLIDS... 974.
 ANALYSIS IN PPM
 AG..... N
 AL..... MG... 43.
 CR..... NA... 178.
 R.....
 BE..... FE(TOT)... 198.
 CA..... 87. 504..
 HCO3..... 117. 25.
 CL..... 326.
 OTHER ANALYTICAL DATA... CAC03=394.. SAR=3.9
 QUALIFICATION FIELD..... DISCHARGE MEASURED 8/41.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

RECORD 00118

GEOTHERM FILE ID: 0018243

COORDINATES
 LAT/LONG... 33-31.33 N 112-26.62 W

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL (SOUTH OF CITRUS PARK)
 WELL/SPRING NUMBER..... 02N-02W-15-AAA

TOWNSHIP-RANGE
 02N 002W 15 NE OF NE NE
 B&M: GILA AND SALT RIVER

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 MAP REFERENCE..... WADDELL 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1939/02/07
 TEMPERATURE (C)..... 30.0
 WELL DEPTH (M)..... 152.
 DISCHARGE..... 10522. L/MIN.
 WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 400.
 ALKALINITY..... 139. AS HCO3
 TOTAL DISSOLVED SOLIDS... 257.
 ANALYSIS IN PPM
 AG..... N
 AL..... MG... 4.
 CR..... NA... 53.
 R.....
 BE..... FE(TOT)... 30.
 CA..... 15. 139.
 HCO3..... 16.
 CL.....

OTHER ANALYTICAL DATA... CAC03=54.. SAR=3.1
 QUALIFICATION FIELD..... DISCHARGE MEASURED 1/39.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

RECORD 00119

GEOTHERM FILE ID: 0018237

COORDINATES
 LAT/LONG... 33-30.05 N 112-23.92 W

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL (SOUTH OF LUKE AIR FORCE BASE-2)
 WELL/SPRING NUMBER..... 02N-01W-19-08B2

TOWNSHIP-RANGE
 02N 001W 19 NW OF NW SE
 B&M: GILA AND SALT RIVER

COUNTRY..... UNITED STATES
 STATE..... ARIZONA

COUNTY..... MARICOPA
 MAP REFERENCE..... WADDELL 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1963/04/30
 TEMPERATURE (C)..... 31.1
 WELL DEPTH (M)..... 191.
 DISCHARGE..... 4731. L/MIN.
 WATER ANALYSIS
 SPECIFIC CONDUCTANCE..... 770. AS HC03
 ALKALINITY..... 152.
 TOTAL DISSOLVED SOLIDS... 528.
 ANALYSIS IN PPM
 AG.....
 AL.....
 H.....
 RE.....
 CA..... 27.
 CO3..... N
 CR.....
 F.....
 FE(TOT).....
 HC03..... 152.
 MG... 17.
 NA... 116.
 NB...
 NO3... 8.
 S04... 90.
 CL.....
 OTHER ANALYTICAL DATA... CAC03=138., SAR=2.6
 QUALIFICATION FIELD.... DISCHARGE MEASURED 7/64.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

ISOLOPES 10/001

RECORD 00120

GEOTHERM FILE 101 0018235

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL (SOUTH OF LUKE AIR FORCE BASE-3)
 WELL/SPRING NUMBER..... 02N-01W-19-AAB2

COORDINATES
 LAT/LONG... 33-30.48 N 112-23.70 W

LOCATION
 COUNTY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 MAP REFERENCE..... WADDELL 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1963/04/30
 TEMPERATURE (C)..... 31.7
 WELL DEPTH (M)..... 220.
 DISCHARGE..... 6359. L/MIN.
 WATER ANALYSIS
 SPECIFIC CONDUCTANCE..... 910.
 ALKALINITY..... 166. AS HC03
 TOTAL DISSOLVED SOLIDS... 559.
 ANALYSIS IN PPM
 AG.....
 AL.....
 H.....
 RE.....
 CA..... 32.
 CO3..... N
 CR.....
 F.....
 FE(TOT).....
 HC03..... 166.
 MG... 16.
 NA... 123.
 NB...
 NO3... 10.
 S04... 65.
 CL.....
 OTHER ANALYTICAL DATA... CAC03=146., SAR=4.4
 QUALIFICATION FIELD.... DISCHARGE MEASURED 7/64.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

ISOLOPES 10/001

RECORD 00121

GEOTHERM FILE 10: 0018246

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL (SOUTH OF MCMICKEN)

WELL/SPRING NUMBER... 02N-02W-25-CBB2

LOCATION

COUNTRY... UNITED STATES

STATE... ARIZONA

COUNTY... MARICOPA

GEOLOGIC PROVINCE.. 04

MAP REFERENCE... PERRYVILLE 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1949/03/03

TEMPERATURE (C)..... 84.4

WELL DEPTH (M)..... 215.

DISCHARGE..... 9349. L/MIN.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 700.

ALKALINITY..... 142. AS HCO3

TOTAL DISSOLVED SOLIDS... 509.

ANALYSIS IN PPM

AG..... CO3..... N

AL..... CR..... MG... 8.

H..... F..... NA... 94.

HE..... FE(TOT)... NB... 80.

CA..... 53. HCO3..... 142. NO3... 38.

CL..... 98.

OTHER ANALYTICAL DATA... CAC03=165., SAR=3.2

QUALIFICATION FIELD... DISCHARGE MEASURED 6/49.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... KAM AND OTHERS, 1966

ISOTOPES (10/001)

COORDINATES

LAT/LONG... 33-29.20 N 112-25.55 W

RECORD 00122

GEOTHERM FILE 10: 0018241

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL (SOUTHEAST OF CITRUS PARK)

WELL/SPRING NUMBER... 02N-02W-11-BAA

LOCATION

COUNTRY... UNITED STATES

STATE... ARIZONA

COUNTY... MARICOPA

MAP REFERENCE... WADDELL 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1940/10/09

TEMPERATURE (C)..... 30.6

WELL DEPTH (M)..... 142.

DISCHARGE..... 9008. L/MIN.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 440.

ALKALINITY..... 139. AS HCO3

TOTAL DISSOLVED SOLIDS... 246.

ANALYSIS IN PPM

AL..... CR..... MG... 4.

H..... F..... NA... 42.

COORDINATES

LAT/LONG... 33-32.22 N 112-26.10 W

ISOTOPES (10/001)

RE..... 23. NB... 504... 10.
CA.... 24. HCO3... 139.
CL....
OTHER ANALYTICAL DATA... CAC03=74., SAR=2.1
QUALIFICATION FIELD..... DISCHARGE MEASURED 10/29.
REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... KAM AND OTHERS, 1966

----- RECORD 00123 -----
GEOTERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL (SOUTHEAST OF CITRUS PARK)
WELL/SPRING NUMBER..... 02N-02W-11-BAA
GEOTERM FILE ID: 0018242

LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... MARICOPA
MAP REFERENCE..... WADDELL 1:24000
TOWNSHIP-RANGE
02N 002W 11 NE OF NE NW
86M: GILA AND SALT RIVER
COORDINATES
LAT/LONG... 33-32.22 N 112-26.10 W

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1962/09/10

TEMPERATURE (C)..... 30.6
WELL DEPTH (M)..... 305.
DISCHARGE..... 4087. L/MIN.

WATER ANALYSIS
SPECIFIC CONDUCTANCE..... 440.
ALKALINITY..... 116. AS HCO3
ANALYSIS IN PPM

AL..... CR..... MG... 7.
H..... F..... NA... 47.
FE..... FE(TOT)... NB... 20.
CA..... 18. HCO3... NO3... 19.
CL..... 29.

ISOLOPES 10/2001

OTHER ANALYTICAL DATA... CAC03=74., SAR=2.4
QUALIFICATION FIELD..... DISCHARGE MEASURED 9/64.
REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... KAM AND OTHERS, 1966

----- RECORD 00124 -----
GEOTERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL (SW OF BEARDSLEY)
WELL/SPRING NUMBER..... 03N-01W-06-BAA
GEOTERM FILE ID: 0018253

LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... MARICOPA
MAP REFERENCE..... MCMICKEN DAM 1:24000
TOWNSHIP-RANGE
03N 001W 06 NE OF NE NW
86M: GILA AND SALT RIVER
COORDINATES
LAT/LONG... 33-38.30 N 112-24.15 W

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1962/09/10

TEMPERATURE (C)..... 30.6
WELL DEPTH (M)..... 305.
DISCHARGE..... 4315. L/MIN.

WATER ANALYSIS
SPECIFIC CONDUCTANCE..... 480.

ALKALINITY..... 114. AS HCO3
 TOTAL DISSOLVED SOLIDS... 268.
 ANALYSIS IN PPM
 AL..... CR..... MG... 10.
 F..... 0.6 NA... 53.
 RE..... FE(TOT)... S04... 46.
 CA..... 19. HCO3... 9.
 CL..... 38.
 OTHER ANALYTICAL DATA... CAC03=88., SAR=2.5
 QUALIFICATION FIELD..... DISCHARGE MEASURED 9/64.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

RECORD 00125

GEOTHERM FILE 10: 0018252

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL (SW OF BEARDSLEY)
 WELL/SPRING NUMBER..... 03N-01W-06-BAA
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... ARIZONA 03N 001W 06
 COUNTY..... MARICOPA 86M: GILA AND SALT RIVER
 MAP REFERENCE..... MCMICKEN DAM 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1939/00/00
 TEMPERATURE (C)..... 30.6
 WELL DEPTH (M)..... 152.
 DISCHARGE..... 6548. L/MIN.

COORDINATES
 LAT/LONG... 33-38.30 N 112-24.15 W

WATER ANALYSIS
 SPECIFIC CONDUCTANCE..... 480.
 ALKALINITY..... 185. AS HCO3
 ANALYSIS IN PPM
 AG..... CO3..... N
 AL..... CR..... MG... 8.
 F..... NA... 87.
 HE..... FE(TOT)... S04... 80.
 CA..... 30. HCO3... 185.
 CL..... 42.
 OTHER ANALYTICAL DATA... CAC03=108., SAR=3.6
 QUALIFICATION FIELD..... DISCHARGE MEASURED 9/39.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

RECORD 00126

GEOTHERM FILE 10: 0018273

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL (SW OF BEARDSLEY)
 WELL/SPRING NUMBER..... 04N-02W-26-DDD
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... ARIZONA 04N 002W 26
 COUNTY..... MARICOPA
 MAP REFERENCE..... MCMICKEN DAM 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS

COORDINATES
 LAT/LONG... 33-39.22 N 112-25.58 W

DATE/COLLECTOR..... 1962/10/04
TEMPERATURE (C)..... 30.6
WELL DEPTH (M)..... 305.
DISCHARGE..... 3293. L/MIN.
WATER ANALYSIS
SPECIFIC CONDUCTANCE..... 310. AS MC03
ALKALINITY..... 145.
TOTAL DISSOLVED SOLIDS... 190.
ANALYSIS IN PPM
AL..... CR..... MG... 5.
H..... F..... 0.7 NA... 45.
HE..... FE(TOT)... NB...
CA..... 12. HC03.... 145. S04... 14.
CL..... 8. NO3... 3.
OTHER ANALYTICAL DATA... CAC03=52.9 SAR=2.7
QUALIFICATION FIELD.... DISCHARGE MEASURED 9/64.
REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... KAM AND OTHERS, 1966

ISOTOPES (0/001)

----- RECORD 00127 -----
GEOTERM_SAMPLE_FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL (SW OF BEARDSLEY-2)
WELL/SPRING NUMBER..... 03N-02W-01-AAA
LOCATION

GEOTERM FILE ID: 0018254

COORDINATES
LAT/LONG... 33-38.13 N 112-24.57 W

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... MARICOPA
MAP REFERENCE..... MCMIKKEN DAM 1124000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1939/04/03
TEMPERATURE (C)..... 30.0
WELL DEPTH (M)..... 183.
DISCHARGE..... 6435. L/MIN.

WATER ANALYSIS
SPECIFIC CONDUCTANCE..... 380. AS MC03
ALKALINITY..... 154.
TOTAL DISSOLVED SOLIDS... 287.
ANALYSIS IN PPM
AG..... CO3..... N
AL..... CR..... MG... 8.
H..... F..... NA... 48.
HE..... FE(TOT)... NB...
CA..... 23. HC03.... 154. S04... 30.
CL..... 24. NO3... 2.7

ISOTOPES (0/001)

OTHER ANALYTICAL DATA... CAC03=90.9 SAR=2.2
QUALIFICATION FIELD.... DISCHARGE MEASURED 2/39.
REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... KAM AND OTHERS, 1966

----- RECORD 00128 -----
GEOTERM_SAMPLE_FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL (SW OF BEARDSLEY-2)
GEOTERM FILE ID: 0018255

WELL/SPRING NUMBER..... 03N-02W-01-AAA
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... ARIZONA 03N 002W 01 NE OF NE NE
 COUNTY..... MARICOPA 86M: GILA AND SALT RIVER
 MAP REFERENCE..... MCMICKEN DAM 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1962/08/08
 TEMPERATURE (C)..... 30.0
 WELL DEPTH (M)..... 305.
 DISCHARGE..... 4088. L/MIN.
 WATER ANALYSIS
 SPECIFIC CONDUCTANCE..... 380.
 ALKALINITY..... 127. AS HCO3
 TOTAL DISSOLVED SOLIDS... 236.
 ANALYSIS IN PPM
 AG..... CO3..... N
 AL..... CR..... MG... 10.
 H..... F..... 0.5 NA... 40.
 HE..... FE(TOT)... S04... 25.
 CA..... 22. HC03.... 127. NO3... 13.
 CL..... 29.
 OTHER ANALYTICAL DATA... CAC03=96., SAR=1.8
 QUALIFICATION FIELD..... DISCHARGE MEASURED 9/64.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

ISOLOPES 10/001

RECORD 00129

GEOTHERM FILE ID: 0018256

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL (SW OF BEARDSLEY-3)
 WELL/SPRING NUMBER..... 03N-02W-02-BAA
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... ARIZONA 03N 002W 02 NE OF NE NW
 COUNTY..... MARICOPA 86M: GILA AND SALT RIVER
 MAP REFERENCE..... MCMICKEN DAM 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1939/03/10
 TEMPERATURE (C)..... 30.0
 WELL DEPTH (M)..... 200.
 DISCHARGE..... 4353. L/MIN.
 WATER ANALYSIS
 SPECIFIC CONDUCTANCE..... 320.
 ALKALINITY..... 149. AS HCO3
 TOTAL DISSOLVED SOLIDS... 275.
 ANALYSIS IN PPM
 AG..... CO3..... H
 AL..... CR..... MG... 8.
 H..... F..... NA... 36.
 HE..... FE(TOT)... S04... 30.
 CA..... 30. HC03.... 149. NO3... 4.9
 CL..... 22.
 OTHER ANALYTICAL DATA... CAC03=108., SAR=1.5
 QUALIFICATION FIELD..... DISCHARGE MEASURED 1/39.

ISOLOPES 10/001

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... KAM AND OTHERS, 1966

RECORD 00130
GEOTHERM FILE ID: 0018257

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL (SW OF BEARDSLEY-3)
WELL/SPRING NUMBER..... 03N-02W-02-BAA

LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... MARICOPA

COORDINATES
LAT/LONG... 33-38.18 N 112-26.12 W

TOWNSHIP-RANGE
03N 02W 02

B&M: GILA AND SALT RIVER

MAP REFERENCE..... MCMICKEN DAM 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1962/12/13

TEMPERATURE (C)..... 30.0

WELL DEPTH (M)..... 306.

DISCHARGE..... 2460. L/MIN.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 320.

ALKALINITY..... 122. AS HCO3

TOTAL DISSOLVED SOLIDS... 192.

ANALYSIS IN PPM

AL.....

H.....

F.....

FE(TOT).....

CA..... 17.

CL..... 18.

CR.....

MG..... 9.

NA..... 35.

NB.....

NO3..... 9.

SO4..... 20.

ISOLOPES 10/001

OTHER ANALYTICAL DATA... CACO3=78., SAR=1.7
QUALIFICATION FIELD.... DISCHARGE MEASURED 9/64.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... KAM AND OTHERS, 1966

RECORD 00131
GEOTHERM FILE ID: 0018272

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL (SW OF BEARDSLEY-4)
WELL/SPRING NUMBER..... 04N-01W-30-DCD

LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... MARICOPA

COORDINATES
LAT/LONG... 33-39.22 N 112-23.94 W

TOWNSHIP-RANGE
04N 01W 30

B&M: GILA AND SALT RIVER

MAP REFERENCE..... MCMICKEN DAM 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1962/09/18

TEMPERATURE (C)..... 31.1

WELL DEPTH (M)..... 312.

DISCHARGE..... 5219. L/MIN.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 510.

ALKALINITY..... 134. AS HCO3

TOTAL DISSOLVED SOLIDS... 288.

ANALYSIS IN PPM

AL.....

CR.....

MG..... 12.

ISOLOPES 10/001

H..... 0.7 NA... 60. S04... 57.
 FE(TOT)... NB...
 HCO3..... 134. NO3... 6.
 CA..... 20.
 CL..... 38.
 OTHER ANALYTICAL DATA... CAC03=100., SAR=2.6
 QUALIFICATION FIELD,.... DISCHARGE MEASURED 9/64.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

RECORD 00132

GEOTHERM FILE ID: 0018271

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL (SW OF BEARDSLEY-4)
 WELL/SPRING NUMBER..... 04N-01W-30-DCD

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 MAP REFERENCE..... MCMICKEN DAM 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1939/11/04
 TEMPERATURE (C)..... 31.1
 WELL DEPTH (M)..... 158.
 DISCHARGE..... 8024. L/MIN.

COORDINATES

LAT/LONG... 33-39.22 N 112-23.94 W

TOWNSHIP-RANGE

04N 001W 30 SE OF SW SE
 B&M: GILA AND SALT RIVER

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 510.
 ALKALINITY..... 166. AS HCO3
 TOTAL DISSOLVED SOLIDS... 376.
 ANALYSIS IN PPM

ISOTOPES (Q/Q001

AL..... CR..... MG... 4.
 R..... F..... NA... 76.
 HE..... FE(TOT)... NB... 60.
 CA..... 30. HCO3... 166. NO3... 3.
 CL..... 40.

OTHER ANALYTICAL DATA... CAC03=92., SAR=3.4
 QUALIFICATION FIELD,.... DISCHARGE MEASURED 8/39.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

RECORD 00133

GEOTHERM FILE ID: 0018250

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL (SW OF MCMICKEN)
 WELL/SPRING NUMBER..... 02N-02W-27-CCC

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 MAP REFERENCE..... PERRYVILLE 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1962/09/18
 TEMPERATURE (C)..... 30.6
 WELL DEPTH (M)..... 305.
 DISCHARGE..... 2120. L/MIN.

COORDINATES

LAT/LONG... 33-28.75 N 112-27.62 W

TOWNSHIP-RANGE

02N 002W 27 SW OF SW SW
 B&M: GILA AND SALT RIVER

WATER ANALYSIS
 SPECIFIC CONDUCTANCE..... 380.
 ANALYSIS IN PPM
 AL..... CR..... MG... 7.
 B..... F..... NA... 45.
 BE..... FE(TOT)... 2.3 S04... 20.
 CA..... HCO3..... NO3... 11.
 CL..... 20.
 CL..... 26.
 OTHER ANALYTICAL DATA... CAC03=79., SAR=2.2
 QUALIFICATION FIELD..... DISCHARGE MEASURED 9/64.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

RECORD 00134

GEOTHERM FILE ID: 0018249

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL (SW OF MCMICKEN)
 WELL/SPRING NUMBER..... 02N-02W-27-CCC
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... ARIZONA 02N 002W 27 SW OF SW SW
 COUNTY..... MARICOPA 86M: GILA AND SALT RIVER
 MAP REFERENCE..... PERRYVILLE 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1939/07/11
 TEMPERATURE (C)..... 30.6
 WELL DEPTH (M)..... 153.
 DISCHARGE..... 9803. L/MIN.

WATER ANALYSIS
 SPECIFIC CONDUCTANCE..... 380.
 ALKALINITY..... 151. AS HCO3
 TOTAL DISSOLVED SOLIDS... 296.
 ANALYSIS IN PPM
 AG..... CO3..... N
 B..... F..... NA... 53.
 BE..... FE(TOT)... S04... 20.
 CA..... HCO3..... 151.
 CL..... 50.
 CL..... 32.
 QUALIFICATION FIELD..... DISCHARGE MEASURED 5/39.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

RECORD 00135

GEOTHERM FILE ID: 0018251

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL (SW OF MCMICKEN-2)
 WELL/SPRING NUMBER..... 02N-02W-36-B882
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... ARIZONA 02N 002W 36 NW OF NW NW
 COUNTY..... MARICOPA 86M: GILA AND SALT RIVER
 MAP REFERENCE..... PERRYVILLE 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1963/04/30

TEMPERATURE (C)..... 32.2
WELL DEPTH (M)..... 155.
DISCHARGE..... 103. L/MIN.
WATER ANALYSIS
SPECIFIC CONDUCTANCE..... 730.
TOTAL DISSOLVED SOLIDS... 406.
ANALYSIS IN PPM
AL..... CR..... MG... 9.
B..... F..... NA... 97.
HE..... FE(TOT)... S04.. 87.
CA..... 18. HCO3.... 103. NO3.. 19.
CL..... 73.
OTHER ANALYTICAL DATA... CAC03=82., SAR=4.7
QUALIFICATION FIELD.... DISCHARGE MEASURED 7/64.
REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... KAM AND OTHERS, 1966

ISOLOPES (02/001)

RECORD 00136

GEOTHERM FILE ID: 0018258

COORDINATES
LAT/LONG... 33-35.68 N 112-26.65 W

GEOHEM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL (SW OF WADDELL)

WELL/SPRING NUMBER..... 03N-02W-22-AAA

LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... MARICOPA
MAP REFERENCE..... WADDELL 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1939/05/02

TEMPERATURE (C)..... 30.0

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

DISCHARGE..... 6510. L/MIN.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 320.

ALKALINITY..... 139. AS HCO3

TOTAL DISSOLVED SOLIDS... 295.

ANALYSIS IN PPM

AG..... CO3..... N

AL..... CR..... MG... 4.

B..... F..... NA... 47.

HE..... FE(TOT)... S04.. 30.

CA..... 23. HCO3.... 139.

CL..... 20.

OTHER ANALYTICAL DATA... CAC03=74., SAR=2.4

QUALIFICATION FIELD.... DISCHARGE MEASURED 3/39.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... KAM AND OTHERS, 1966

ISOLOPES (02/001)

RECORD 00137

GEOTHERM FILE ID: 0018234

COORDINATES

GEOHEM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL (WEST OF LUKE AIR FORCE BASE)

WELL/SPRING NUMBER..... 02N-01W-18-BBB2

LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... MARICOPA
MAP REFERENCE..... WADDELL 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1939/05/02

TEMPERATURE (C)..... 30.0

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

DISCHARGE..... 6510. L/MIN.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 320.

ALKALINITY..... 139. AS HCO3

TOTAL DISSOLVED SOLIDS... 295.

ANALYSIS IN PPM

AG..... CO3..... N

AL..... CR..... MG... 4.

B..... F..... NA... 47.

HE..... FE(TOT)... S04.. 30.

CA..... 23. HCO3.... 139.

CL..... 20.

OTHER ANALYTICAL DATA... CAC03=74., SAR=2.4

QUALIFICATION FIELD.... DISCHARGE MEASURED 3/39.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... KAM AND OTHERS, 1966

LAT/LONG... 33-31.33 N 112-24.50 W

02N 001W 18 NW OF NW NW
86M: GILA AND SALT RIVER

UNITED STATES

COUNTRY..... ARIZONA
STATE..... MARICOPA

MAP REFERENCE..... WADDELL 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1957/12/17

TEMPERATURE (C)..... 30.6

WELL DEPTH (M)..... 341.

DISCHARGE..... 7154. L/MIN.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 600.

ALKALINITY..... 155. AS HC03

TOTAL DISSOLVED SOLIDS... 1780.

ANALYSIS IN PPM

AL.....	CR.....	MG...	96.
HA.....	F.....	NA...	148.
RE.....	FE(TOT)...	NB...	
CA.... 254.	HC03.... 155.	NO3...	116.
CL.... 430.			

ISOLOPES 10/001

OTHER ANALYTICAL DATA... CAC03=1040., SAR=2.0
QUALIFICATION FIELD..... DISCHARGE MEASURED 10/62.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... KAM AND OTHERS, 1966

RECORD 00138

GEOHEM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL (WEST OF SADDLE MTN.-11)

WELL/SPRING NUMBER..... 01N-09W-21-8CC2

LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... MARICOPA

GEOLOGIC PROVINCE..

MAP REFERENCE..... CORTEZ PEAK 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1954/08/00

TEMPERATURE (C)..... 32.0

WELL DEPTH (M)..... 315.

DISCHARGE..... 9047. L/MIN.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 997.

ALKALINITY..... 253. AS HC03

ANALYSIS IN MG/L

AG.....	CO3..... N
CA.....	HC03.... 253.
CL.... 92.	

ISOLOPES 10/001

QUALIFICATION FIELD..... DISCHARGE MEASURED 8/58.

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... DENIS, 1971

GEOTHERM FILE ID: 0018143

COORDINATES

LAT/LONG... 33-24.83 N 113-11.70 W
UTM ZONE... +12
NORTHING... 3698851.
295909.

RECORD 00139
 GEOTHERM FILE ID: 0018172

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL EAST OF BLECHA RANCH (2/2)
 WELL/SPRING NUMBER..... 02N-09W-13-BAA

LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..

MAP REFERENCE..... BIG HORN MTS. 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1966/12/00
 TEMPERATURE (C)..... 32.
 WELL DEPTH (M)..... 184.
 DISCHARGE..... 0 4353. L/MIN

WATER ANALYSIS

PH..... 7.1
 SPECIFIC CONDUCTANCE..... 767.
 ANALYSIS IN MG/L

AG.....	CO3..... N	MG...	9.	SI02.	44.
AL.....	CR.....	NA...			
H.....	F.....	NA...	108.		
BA.....	FE+3.....	NA+K.			
HE.....	FE(TOT)...	NB...		504..	91.
CA..... 30.	HC03.....				
CL..... 94.					

QUALIFICATION FIELD..... DISCHARGE MEASURED 1966/12/00

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DENIS. 1971

RECORD 00140

GEOTHERM FILE ID: 0018171

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL EAST OF BLECHA RANCH (1/2)
 WELL/SPRING NUMBER..... 02N-09W-13-BAA

LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..

MAP REFERENCE..... BIG HORN MTS. 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1954/08/00
 TEMPERATURE (C)..... 33.
 WELL DEPTH (M)..... 184.
 DISCHARGE..... 0 5792. L/MIN

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 686.
 TOTAL DISSOLVED SOLIDS... 432.
 ANALYSIS IN MG/L

AG.....	CO3..... N	MG...	9.	SI02.	41.
AL.....	CR.....	NA...			
R.....	F.....				

COORDINATES

LAT/LONG... 33-31.32 N 113-08.10 W
 UTM ZONE... +12
 NORTHING... 3710645.
 302198.

ISOLOPES 10/001

COORDINATES

LAT/LONG... 33-31.32 N 113-08.10 W
 UTM ZONE... +12
 NORTHING... 3710645.
 302198.

ISOLOPES 10/001

BA..... NA+K. 111. S04.. 75.
 RE..... NB... 6.5
 CA... 24. 146.
 CL... 90.
 QUALIFICATION FIELD..... DISCHARGE MEASURED 1958/08/00
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DENIS, 1971

RECOND 00141
 GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL EAST OF DENDORA RANCH (1)
 LOCATION

GEOTHERM FILE ID: 0018214

COUNTRY..... UNITED STATES 04S 008W 26 SE OF SE SE
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... DENDORA VALLEY 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1954/04/10
 TEMPERATURE (C)..... 35.0
 WELL DEPTH (M)..... 59.

COORDINATES

LAT/LONG... 33-02.43 N 113-02.80 W

OTHER SAMPLE INFORMATION.. REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 3210.
 TOTAL DISSOLVED SOLIDS... 1840.
 ANALYSIS IN PPM

ISOLOPES 10/001

AL..... CR..... 13. MG... 13.
 B..... F..... 3.6 NA... S102. 38.
 BA..... FE3..... NA+K. 534.
 HE..... FE(TOT)... NB... S04.. 235.
 CA... 123. HCO3..... 79. NO3.. 5.9
 CL... 850.

OTHER ANALYTICAL DATA... CAC03=350.

REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... *ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

RECOND 00142
 GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL EAST OF DENDORA RANCH (1)
 LOCATION

GEOTHERM FILE ID: 0018213

COUNTRY..... UNITED STATES 04S 008W 26 SE OF SE SE
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... DENDORA VALLEY 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1946/04/11
 TEMPERATURE (C)..... 35.0
 WELL DEPTH (M)..... 59.

COORDINATES

LAT/LONG... 33-02.43 N 113-02.80 W

OTHER SAMPLE INFORMATION.. REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 2530.

ISOIOPES 10/00L

TOTAL DISSOLVED SOLIDS... 1420.
ANALYSIS IN PPM
AL.... 1.4
H.... 5.1
RA....
FE....
FE(TOT)...
CA.... 74.
CL.... 615.
OTHER ANALYTICAL DATA... CA03=234
REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

RECORD 00143

GEOTHERM FILE 10: 0018162

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL NEAR CENTENNIAL FARMS (2/2)
WELL/SPRING NUMBER... 01N-10W-01-DDC

COORDINATES
LAT/LONG... 33-27.1 N 113-14.0 W
UTM ZONE... 12
NORTHING... 3703029.
291831.

LOCATION
COUNTRY... UNITED STATES
STATE... ARIZONA
COUNTY... MARICOPA
GEOLOGIC PROVINCE...
MAP REFERENCE... CORTEZ PEAK 1162500
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1966/12/00
TEMPERATURE (C)... 36.
WELL DEPTH (M)... 613.
DISCHARGE... Q 7836. L/MIN

WATER ANALYSIS
PH... 7.3
SPECIFIC CONDUCTANCE... 1140.
ANALYSIS IN MG/L

ISOIOPES 10/00L

AG....
AL....
R....
HA....
RE....
CA.... 27.
CL.... 116.
QUALIFICATION FIELD... DISCHARGE MEASURED 1966/12/00
REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE... DENIS, 1971

RECORD 00144

GEOTHERM FILE 10: 0018161

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL NEAR CENTENNIAL FARMS (1/2)
WELL/SPRING NUMBER... 01N-10W-01-CCC

COORDINATES
LAT/LONG... 33-27.02 N 113-14.84 W
UTM ZONE... 12
NORTHING... 3703041.
291237.

LOCATION
COUNTRY... UNITED STATES
STATE... ARIZONA
COUNTY... MARICOPA
GEOLOGIC PROVINCE...
MAP REFERENCE... CORTEZ PEAK 1162500
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1966/12/00
TEMPERATURE (C)... 36.
WELL DEPTH (M)... 613.
DISCHARGE... Q 7836. L/MIN

WATER ANALYSIS
PH... 7.3
SPECIFIC CONDUCTANCE... 1140.
ANALYSIS IN MG/L

NAME OF SAMPLE SOURCE... UNNAMED WELL NORTHEAST OF AQUA CALIENTE MTS.

WELL/SPRING NUMBER..... 04S-10W-03-DAA

LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE.. 04

TOWNSHIP-RANGE

04S 010W 03 NE OF NE SE
 86M: GILA AND SALT RIVER

COORDINATES

LAT/LONG... 33-06.46 N 113-16.43 W

MAP REFERENCE..... HYDER SE 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1964/08/00

TEMPERATURE (C)..... 33.3

WELL DEPTH (M)..... 137

DISCHARGE..... 15520. L/MIN

WATER ANALYSIS

PH..... 8.6

SPECIFIC CONDUCTANCE..... 1040.

TOTAL DISSOLVED SOLIDS... 590.

ANALYSIS IN MG/L

AG.....	CO3.....	5.	LI.....	0.4
AL.....	CR.....		MG.....	N
H.....	F.....	5.8	NA.....	206.
RE.....	FE(TOT).....		SI02.....	19.
CA.....	HC03.....	93.	NO3.....	131.
CL.....				

ISOLOPES 10/001

OTHER ANALYTICAL DATA... SAR=25., CAC03=12.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... WEIST, 1965

RECORD 00147

GEOHEM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL NORTHWEST OF SADDLE MT. (2/2)

WELL/SPRING NUMBER..... 02N-08W-32-BBA

LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..

TOWNSHIP-RANGE

02N 008W 32 NE OF NW NW
 86M: GILA AND SALT RIVER

COORDINATES

LAT/LONG... 33-28.71 N 113-06.30 W
 UTM ZONE... 12
 NOTHING... 3705886.
 304903.

GEOTHERM FILE ID: 0018165

MAP REFERENCE..... CORTEZ PEAK 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1966/12/00

TEMPERATURE (C)..... 33

WELL DEPTH (M)..... 524

DISCHARGE..... 7571. L/MIN

WATER ANALYSIS

PH..... 6.9

SPECIFIC CONDUCTANCE..... 861.

ANALYSIS IN MG/L

AG.....	CO3.....	N	MG.....	2.8
AL.....	CR.....		NA.....	27.
H.....	F.....	2.5	NA+K.....	142.
HA.....	FE+3.....		NO3.....	78.
RE.....	FE(TOT).....	0.02		
CA.....	HC03.....	96.		
CL.....				

ISOLOPES 10/001

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... DENIS, 1971

GEOTHERM SAMPLE FILE..... RECORD 00148
NAME OF SAMPLE SOURCE... UNNAMED WELL NORTHWEST OF SAADDLE MT. (1/2)
WELL/SPRING NUMBER..... 02N-08W-31-AAA
LOCATION..... GEOTHERM FILE ID: 0018164

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... MARICOPA
GEOLOGIC PROVINCE.....
MAP REFERENCE..... CORTIZ PEAK 1162500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1958/07/00
TEMPERATURE (C)..... 34.
WELL DEPTH (M)..... 371.
DISCHARGE..... 0 8214. L/MIN

WATER ANALYSIS

PH..... 7.4
SPECIFIC CONDUCTANCE..... 715.
TOTAL DISSOLVED SOLIDS... 437.
ANALYSIS IN MG/L

ISOLOPES (0/001

AG.....	CO3..... N	MG...	8.1	
AL.....	CR.....	NA...	SI02.	34.
BA.....	F.....	NA+K.	116.	
BE.....	FE+3.....	NB...	SO4...	90.
CA.....	FE(TOT)...	NO3...		
CL.....	HC03.....			
	22.	120.		
	98.			

QUALIFICATION FIELD..... DISCHARGE MEASURED 1966/12/00

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... DENIS, 1971

RECORD 00149

GEOTHERM SAMPLE FILE..... GEOTHERM FILE ID: 0018223

NAME OF SAMPLE SOURCE... UNNAMED WELL SE OF AQUA CALIENTE
WELL/SPRING NUMBER..... 05S-010W-20
LOCATION..... COORDINATES
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... MARICOPA
GEOLOGIC PROVINCE... 04
MAP REFERENCE..... AQUA CALIENTE 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1953/03/23
TEMPERATURE (C)..... 33.3
WELL DEPTH (M)..... 14.
OTHER SAMPLE INFORMATION.. REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 1370.
TOTAL DISSOLVED SOLIDS... 816.
ANALYSIS IN PPM

ISOLOPES (0/001

AL..... 1.6 CR..... 3.7 MG... 5.6 S102. 42.
B..... F..... NA... 255.
BA..... FE+3..... NA+K. 187.
RE..... FE(TOT). NB...
CA..... 27. HC03.... 101. N03... 1.4
CL..... 244.

OTHER ANALYTICAL DATA... CAC03=82.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

RECORD 00150

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0018215

NAME OF SAMPLE SOURCE... UNNAMED WELL SE OF DENDORA RANCH (1)

LOCATION TOWNSHIP-RANGE

COORDINATES
LAT/LONG... 33-02.0 N 113-03.4 W

COUNTRY... UNITED STATES 04S 008W 35 SE OF SE NW

STATE... ARIZONA

COUNTY... MARICOPA

MAP REFERENCE... DENDORA VALLEY 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1955/05/26

TEMPERATURE (C)... 30.8

WELL DEPTH (M)... 83.

OTHER SAMPLE INFORMATION.. REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED

WATER ANALYSIS

SPECIFIC CONDUCTANCE... 4770.

TOTAL DISSOLVED SOLIDS... 2870.

ANALYSIS IN PPM

AL..... 3.8 CR..... 28. MG... 5102. 66.
B..... F..... NA... 779. S04... 471.
BA..... FE+3..... NA+K. 21.
RE..... FE(TOT). NB...
CA..... 218. HC03.... 132. N03...
CL..... 1220.

OTHER ANALYTICAL DATA... CAC03=659.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

RECORD 00151

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0018216

NAME OF SAMPLE SOURCE... UNNAMED WELL SE OF DENDORA RANCH (2)

LOCATION TOWNSHIP-RANGE

COORDINATES
LAT/LONG... 33-01.9 N 113-03.2 W

COUNTRY... UNITED STATES 04S 008W 35 NW OF NW SE

STATE... ARIZONA

COUNTY... MARICOPA

MAP REFERENCE... DENDORA VALLEY 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1955/05/14

TEMPERATURE (C)... 30.3

WELL DEPTH (M)... 68.

OTHER SAMPLE INFORMATION.. REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED

WATER ANALYSIS

SPECIFIC CONDUCTANCE... 1880.

LAT/LONG... 32-59.15 N 113-19.40 W

05S 010W 19 NE OF NE

UNITED STATES

COUNTRY.....

STATE..... ARIZONA

COUNTY..... MARICOPA

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... AQUA CALIENTE 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1946/01/30

TEMPERATURE (C)..... 37.2

OTHER SAMPLE INFORMATION.. REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 1100.

TOTAL DISSOLVED SOLIDS... 632.

ANALYSIS IN PPM

AL..... 0.92 CR..... MG... 1.2

BA..... 5.5 F..... NA+K. 226.

HE..... FE(III). S04.. 143.

CA..... 10. HCO3.... 101. NO3.. 4.7

CL..... 192.

OTHER ANALYTICAL DATA... CaCO3=30.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

RECORD 00154

GEOTHERM FILE ID: 0018163

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTH OF BURNT MT.

WELL/SPRING NUMBER..... 02N-08W-17-DAA

LOCATION

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... MARICOPA

GEOLOGIC PROVINCE..

MAP REFERENCE..... BIG HORN MTS. 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1956/08/00

TEMPERATURE (C)..... 31.

WELL DEPTH (M)..... 155.

DISCHARGE..... 0 3520. L/MIN

WATER ANALYSIS

PH..... 8.2

SPECIFIC CONDUCTANCE..... 711.

TOTAL DISSOLVED SOLIDS... 442.

ANALYSIS IN MG/L

AG..... CO3..... N

AL..... CR..... MG... 8.8

BA..... 5.2 F..... NA+K. 118.

HE..... FE(III). S04.. 44.

CA..... 21. HCO3.... 146. NO3.. 6.5

CL..... 94.

QUALIFICATION FIELD..... DISCHARGE MEASURED 1958/08/00

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... DENIS, 1971

COORDINATES

LAT/LONG... 33-30.92 N 113-06.04 W

UTM ZONE... 12

NORTHING... 3710439.

305597.

ISOTOPES 10/2001

RECORD 00155

GEOTHERM FILE ID: 0018200

GEOTHERM_SAMPLE_FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTH OF OATMAN MT.
WELL/SPRING NUMBER..... 055-09W-12-ACD

LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... MARICOPA

COORDINATES
LAT/LONG... 33-00.41 N 113-08.32 W

TOWNSHIP-RANGE
05S 009W 12 SE OF SW NE
B&M: GILA AND SALT RIVER

MAP REFERENCE..... DENNDORA VALLEY 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1964/08/00

TEMPERATURE (C)..... 32.2

WELL DEPTH (M)..... 186.

DISCHARGE..... E 2555. L/MIN

WATER ANALYSIS

PH..... 8.9

SPECIFIC CONDUCTANCE..... 2180.

TOTAL DISSOLVED SOLIDS..... 1240.

CHARGE IMBALANCE (% DIFF).... 0.8

ANALYSIS IN MG/L

AG..... CO3..... 8. LI... 0.92

AL..... CR..... 0.2

B..... 2.0 F..... 4.0 NA... 403. SI02. 19.

BE..... FE(TOT)..... NB... 274.

CA..... 46. HCO3..... 12. NO3.. 1.7

CL..... 478. CL... 1.7

CO..... K..... 2.0

OTHER ANALYTICAL DATA... CAC03=116., SAR=16.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... WEIST, 1965

RECORD 00156

GEOTHERM FILE ID: 0018221

GEOTHERM_SAMPLE_FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTH OF OATMAN MTN
LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... MARICOPA

COORDINATES
LAT/LONG... 33-00.41 N 113-08.22 W

TOWNSHIP-RANGE
05S 009W 12 SE OF SW NE

MAP REFERENCE..... DENNDORA VALLEY 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1955/06/05

TEMPERATURE (C)..... 32.8

WELL DEPTH (M)..... 186.

OTHER SAMPLE INFORMATION.. REFERENCE NOT AVAILABLE; RECORD NOT VERIFIED

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 2290.

TOTAL DISSOLVED SOLIDS..... 1330.

ANALYSIS IN PPM

AL..... CR..... 3.3 MG... 3.3

H..... 1.2 F..... 4.8 NA... 5102. 21.

HA..... FE+3..... NA+K. 421. 504.. 314.

RE..... FE(TOT)..... NB... 314.

CA.... 55. HC03.... 34. NU3.. 2.8
CL.... 494.
OTHER ANALYTICAL DATA.... CAC03=150.
REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

RECORD 00157

GEOTHERM_SAMPLE_FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTH OF SADDLE MT.
WELL/SPRING NUMBER..... 01S-09W-01-CCC
LOCATION-----
GEOTHERM FILE ID: 0018174

COUNTRY..... UNITED STATES 01S 009W 01 SW OF SW SW
STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... MARICOPA
GEOLOGIC PROVINCE..
MAP REFERENCE..... CORTEZ PEAK 1162500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1957/08/00
TEMPERATURE (C)..... 33.
WELL DEPTH (M)..... 307.
DISCHARGE..... 0 4467. L/MIN
WATER ANALYSIS

COORDINATES

LAT/LONG... 33-21.80 N 113-08.49 W
UTM ZONE... +12
NORTHING... 3693373.
300770.

PH..... 7.6
SPECIFIC CONDUCTANCE.... 1190.
TOTAL DISSOLVED SOLIDS... 705.
ANALYSIS IN MG/L

ISOTOPES (0/001

AG.....
AL.....
R.....
RA.....
RE.....
CA..... 14.
CL..... 149.
CO3..... N
CR.....
F..... 4.8
FE+3.....
FE(TOT)..
HC03..... 237.
MG... 7.1
NA...
NA+K... 233.
NB...
NO3... 12.
SI02. 27.
S04.. 140.

QUALIFICATION FIELD..... DISCHARGE MEASURED 1967/09/00
REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... DENIS, 1971

RECORD 00158

GEOTHERM_SAMPLE_FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF BURNT MT. (1/5)
WELL/SPRING NUMBER..... 02N 009W 10 NW OF NW NE
LOCATION-----
GEOTHERM FILE ID: 0018166

COUNTRY..... UNITED STATES 02N 009W 10 NW OF NW NE
STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... MARICOPA
GEOLOGIC PROVINCE..
MAP REFERENCE..... BIG HORN MTS. 1162500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1952/09/00
TEMPERATURE (C)..... 34.
WELL DEPTH (M)..... 469.
DISCHARGE..... 0 7457. L/MIN
WATER ANALYSIS

COORDINATES

LAT/LONG... 33-32.23 N 113-11.24 W
UTM ZONE... +12
NORTHING... 3712353.
296443.

SPECIFIC CONDUCTANCE..... 710.
 TOTAL DISSOLVED SOLIDS... 480.
 ANALYSIS IN MG/L
 AG..... N
 AL.....
 B..... 1.4
 BA.....
 BE.....
 CA..... 28.
 CL..... 59.
 CO3..... N
 CR.....
 F.....
 FE+3.....
 FE(TOT).....
 HCU3..... 162.
 MG... 16.
 NA... 36.
 NA+K... 124.
 NB... 119.
 NO3... 17.
 QUALIFICATION FIELD..... DISCHARGE MEASURED 1966/12/00
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DENIS, 1971

RECORD 00159

GEOTHERM FILE ID: 0018167

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF BURNT MT. (2/5)
 WELL/SPRING NUMBER..... 02N-09W-09-088
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... BIG HORN MTS. 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1957/08/00
 TEMPERATURE (C)..... 33.
 WELL DEPTH (M)..... 457.
 DISCHARGE..... 0 7798. L/MIN
 WATER ANALYSIS
 PH..... 7.1
 SPECIFIC CONDUCTANCE... 824.
 TOTAL DISSOLVED SOLIDS... 488.
 ANALYSIS IN MG/L
 AG..... N
 AL.....
 B..... 1.4
 BA.....
 BE.....
 CA..... 25.
 CL..... 64.
 CO3..... N
 CR.....
 F.....
 FE+3.....
 FE(TOT).....
 HCU3..... 179.
 MG... 17.
 NA... 39.
 NA+K... 115.
 NB... 125.
 NO3... 14.
 COORDINATES
 LAT/LONG... 33-31.81 N 113-11.25 W
 UTM ZONE... 12
 NORTHING... 3712156.
 296438.

ISOTOPES 10/001

QUALIFICATION FIELD..... DISCHARGE MEASURED 1966/12/00
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DENIS, 1971

RECORD 00160

GEOTHERM FILE ID: 0018168

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF BURNT MT. (2/5)
 WELL/SPRING NUMBER..... 02N-09W-09-088
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... BIG HORN MTS. 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1957/08/00
 TEMPERATURE (C)..... 33.
 WELL DEPTH (M)..... 457.
 DISCHARGE..... 0 7798. L/MIN
 WATER ANALYSIS
 PH..... 7.1
 SPECIFIC CONDUCTANCE... 824.
 TOTAL DISSOLVED SOLIDS... 488.
 ANALYSIS IN MG/L
 AG..... N
 AL.....
 B..... 1.4
 BA.....
 BE.....
 CA..... 25.
 CL..... 64.
 CO3..... N
 CR.....
 F.....
 FE+3.....
 FE(TOT).....
 HCU3..... 179.
 MG... 17.
 NA... 39.
 NA+K... 115.
 NB... 125.
 NO3... 14.
 COORDINATES
 LAT/LONG... 33-31.81 N 113-11.25 W
 UTM ZONE... 12

NORTHING... 3712156.
296438.

COUNTY..... MARIICOPA

GEOLOGIC PROVINCE..

MAP REFERENCE..... BIG HORN MTS. 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1966/12/00

TEMPERATURE (C)..... 34.

WELL DEPTH (M)..... 457.

DISCHARGE..... 0 7798. L/MIN

WATER ANALYSIS

PH..... 7.1

SPECIFIC CONDUCTANCE..... 788.

ANALYSIS IN MG/L

AG.....

AL.....

B.....

CA.....

CL.....

CO.....

CR.....

FE.....

FE(107).....

HC03.....

NA.....

NB.....

SI02.....

S04.....

118.

13.

108.

1.7

0.02

168.

26.

62.

DISCHARGE MEASURED 1966/12/00

QUALIFICATION FIELD.....

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... DENIS, 1971

ISOIOPES (10/00)

RECORD 00161

GEOTHERM FILE ID: 0018169

GEOTHERM_SAMPLE_FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF BURNT MT. (3/5)

WELL/SPRING NUMBER..... 02N-09W-10-ABB

LOCATION

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... MARIICOPA

GEOLOGIC PROVINCE..

MAP REFERENCE..... BIG HORN MTS. 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1966/12/00

TEMPERATURE (C)..... 33.

WELL DEPTH (M)..... 457.

DISCHARGE..... 0 5564. L/MIN

WATER ANALYSIS

PH..... 6.9

SPECIFIC CONDUCTANCE..... 878.

ANALYSIS IN MG/L

AG.....

AL.....

B.....

CA.....

CL.....

CO.....

CR.....

FE.....

FE(107).....

HC03.....

NA.....

NB.....

SI02.....

S04.....

38.

117.

1.8

0.02

150.

31.

114.

DISCHARGE MEASURED 1966/12/00

QUALIFICATION FIELD.....

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... DENIS, 1971

COORDINATES

LAT/LONG... 33-32.20 N 113-10.19 W

UTM ZONE... 12

NORTHING... 3712320.

298040.

ISOIOPES (10/00)

RECORD 00162

GEOTHERM FILE ID: 0018170

GEOTHERM_SAMPLE_FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF BURNT MT. (4/5)

WELL/SPRING NUMBER..... 02N-09W-10-BBB

LOCATION

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... MARICOPA

GEOLOGIC PROVINCE..

MAP REFERENCE..... BIG HORN MTS. 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1966/12/00

TEMPERATURE (C)..... 33.

WELL DEPTH (M)..... 396.

DISCHARGE..... 0 9009. L/MIN

WATER ANALYSIS

PH..... 8.7

SPECIFIC CONDUCTANCE..... 882.

ANALYSIS IN MG/L

AG..... 28.

AL.....

H..... 1.8

HA.....

RE..... 0.02

CA..... 34.

CL..... 88.

QUALIFICATION FIELD..... DISCHARGE MEASURED 1966/12/00

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... DENIS, 1971

ISOTOPES 10/001

COORDINATES

LAT/LONG.... 33-32.21 N 113-10.69 W

UTM ZONE.... +12

NORTHING.... 3712324.

297840.

RECORD 00163

GEOTHERM FILE ID: 0018152

GEOTHERM_SAMPLE_FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF SADDLE MT. (02/10)

WELL/SPRING NUMBER..... 01N-08W-07-CBB

LOCATION

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... MARICOPA

GEOLOGIC PROVINCE..

MAP REFERENCE..... CORTEZ PEAK 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1958/07/00

TEMPERATURE (C)..... 41.

WELL DEPTH (M)..... 244.

DISCHARGE..... 0 2956. L/MIN

WATER ANALYSIS

PH..... 7.8

SPECIFIC CONDUCTANCE..... 1180.

TOTAL DISSOLVED SOLIDS... 764.

ANALYSIS IN MG/L

AG.....

AL.....

MG... 1.5

COORDINATES

LAT/LONG.... 33-26.54 N 113-07.57 W

UTM ZONE.... +12

NORTHING.... 3702531.

302419.

ISOTOPES 10/001

R..... 4.2 NA... SIU2. 69.
RA..... NA+K. 258.
RE..... NB... S04.. 153.
CA..... 9.8 HC03... 270. 9.8
CL..... 135.
QUALIFICATION FIELD..... DISCHARGE MEASURED 1967/09/00
REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... DENIS, 1971

RECORD 00164

GEOTHERM FILE ID: 0018153

GEOTHERM_SAMPLE_FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF SADDLE MT. (03/10)

WELL/SPRING NUMBER..... 01N-08W-19-BCC

TOWNSHIP-RANGE

LOCATION
COUNTRY..... UNITED STATES 01N 08W 19 SW OF SW NW
STATE..... ARIZONA B6M: GILA AND SALT RIVER
COUNTY..... MARICOPA

COORDINATES

LAT/LONG... 33-24.85 N 113-07.535W
UTM ZONE... 12
NORTHING... 3698355.
302334.

MAP REFERENCE..... CORTEZ PEAK 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1958/07/00

TEMPERATURE (C)..... 30.

WELL DEPTH (M)..... 213.

DISCHARGE..... 0 2975.

WATER ANALYSIS

PH..... 7.2

SPECIFIC CONDUCTANCE..... 874.

TOTAL DISSOLVED SOLIDS... 501.

ANALYSIS IN MG/L

AG..... N

AL.....

H..... 3.

F.....

HA.....

HE.....

CA..... 7.8

CL..... 98.

CO3..... 181.

HC03.....

MG... 1.5

NA... S102. 49.

NA+K. 165.

NB... S04.. 77.

NO3.. 11.

QUALIFICATION FIELD..... DISCHARGE MEASURED 1967/09/00

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... DENIS, 1971

RECORD 00165

GEOTHERM FILE ID: 0018154

GEOTHERM_SAMPLE_FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF SADDLE MT. (04/10)

WELL/SPRING NUMBER..... 01N-09W-01-BBB

TOWNSHIP-RANGE

LOCATION
COUNTRY..... UNITED STATES 01N 09W 01 NW OF NW NW
STATE..... ARIZONA B6M: GILA AND SALT RIVER
COUNTY..... MARICOPA

COORDINATES

LAT/LONG... 33-27.86 N 113-08.60 W
UTM ZONE... 12
NORTHING... 3704320.
300828.

MAP REFERENCE..... CORTEZ PEAK 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1966/12/00

TEMPERATURE (C)..... 33.
 WELL DEPTH (M)..... 476.
 DISCHARGE..... 0 7192. L/MIN
 WATER ANALYSIS
 SPECIFIC CONDUCTANCE..... 1080.
 ANALYSIS IN MG/L
 AG..... N
 AL.....
 CR..... 9.
 F..... 1.6
 NA..... 168.
 FE+3.....
 FE(TOT)..... 0.04
 NB.....
 CA..... 34.
 CL..... 83.
 CO3.....
 HCO3..... 156.
 SI02..... 73.
 S04..... 228.

ISOLOPES 10/001

QUALIFICATION FIELD..... DISCHARGE MEASURED 1966/12/00
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DENIS, 1971

RECORD 00166

GEOTHERM FILE ID: 0018155

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF SADDLE MT. (05/10)
 WELL/SPRING NUMBER..... 01N-09W-06-CCC
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... CORTEZ PEAK 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1954/08/00/
 TEMPERATURE (C)..... 34.
 WELL DEPTH (M)..... 433.
 DISCHARGE..... 0 5110. L/MIN
 WATER ANALYSIS
 SPECIFIC CONDUCTANCE..... 1060.
 TOTAL DISSOLVED SOLIDS... 659.
 ANALYSIS IN MG/L
 AG..... N
 AL.....
 CR.....
 B..... 2.8
 BA.....
 FE+3.....
 FE(TOT).....
 NA.....
 NB.....
 NO3..... 22.
 S04..... 151.
 SI02..... 27.
 MG..... 12.

COORDINATES
 LAT/LONG... 33-27.03 N 113-13.78 W
 UTM ZONE... 12
 NORTHING... 3703097.
 292798.

ISOLOPES 10/001

QUALIFICATION FIELD..... DISCHARGE MEASURED 1966/12/00
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DENIS, 1971

RECORD 00167

GEOTHERM FILE ID: 0018156

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF SADDLE MT. (06/10)
 WELL/SPRING NUMBER..... 01N-09W-07-DCC
 LOCATION
 COUNTRY.....
 STATE.....
 COUNTY.....
 GEOLOGIC PROVINCE..
 MAP REFERENCE.....
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR.....
 TEMPERATURE (C).....
 WELL DEPTH (M).....
 DISCHARGE.....
 WATER ANALYSIS
 SPECIFIC CONDUCTANCE.....
 TOTAL DISSOLVED SOLIDS...
 ANALYSIS IN MG/L
 AG.....
 AL.....
 CR.....
 B.....
 BA.....
 FE+3.....
 FE(TOT).....
 NA.....
 NB.....
 NO3.....
 S04.....
 SI02.....
 MG.....
 COORDINATES
 LAT/LONG...
 UTM ZONE...
 NORTHING...
 292798.

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... CORTEZ PEAK 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1953/06/00
 TEMPERATURE (C)..... 34.
 WELL DEPTH (M)..... 279.
 DISCHARGE..... Q 5299. L/MIN
 WATER ANALYSIS
 SPECIFIC CONDUCTANCE..... 1320.
 TOTAL DISSOLVED SOLIDS... 864.
 ANALYSIS IN MG/L

01N 009W 07 SW OF SW SE
 B&M: GILA AND SALT RIVER

33-26.15 N 113-13.28 W
 UTM ZONE... 12
 NORTHING... 3701501.
 292964.

ISOLOPES (02/001)

AG.....	CO3..... N	MG...	9.2	SI02.	22.
AL.....	CR.....	NA...			
H.....	F.....	NA+K.	216.	S04..	324.
BA.....	FE+3....	NB...			
HE.....	FE(TOT)..	NO3..	17.		
CA..... 68.	HC03....				
CL..... 90.					

QUALIFICATION FIELD..... DISCHARGE MEASURED 1966/11/00

REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DENIS, 1971

RECORD 00168

GEOTHERM FILE ID: 0018157

GEOHEM_SAMPLE_FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF SADDLE MT. (07/10)
 WELL/SPRING NUMBER..... 01N-09W-14-BBB

LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... CORTEZ PEAK 1162500
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1957/08/00
 TEMPERATURE (C)..... 30.
 WELL DEPTH (M)..... 371.
 WATER ANALYSIS
 PH.....
 SPECIFIC CONDUCTANCE..... 9.1
 TOTAL DISSOLVED SOLIDS... 1430.
 ANALYSIS IN MG/L

COORDINATES

33-25.972N 113-09.618W
 UTM ZONE... 12
 NORTHING... 3701170.
 299162.

ISOLOPES (02/001)

AG.....	CO3.....	MG...	0.9	SI02.	130.
AL.....	CR.....	NA...			
H.....	F.....	NA+K.	301.	S04..	393.
BA.....	FE+3....	NB...			
HE.....	FE(TOT)..	NO3..	8.9		
CA..... 27.	HC03....				
CL..... 65.					

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... DENIS, 1971

RECORD 00169

GEOTHERM FILE ID: 0018158

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF SADDLE MT. (08/10)

WELL/SPRING NUMBER..... 01N-09W-17-CBB

LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... MARICOPA
GEOLOGIC PROVINCE.. CORTEZ PEAK 1162500

MAP REFERENCE.....

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1958/07/00

TEMPERATURE (C)..... 36.

WELL DEPTH (M)..... 456.

DISCHARGE..... Q 7873. L/MIN

WATER ANALYSIS

P4..... 8.1

SPECIFIC CONDUCTANCE..... 1010.

TOTAL DISSOLVED SOLIDS... 631.

ANALYSIS IN MG/L

AG.....

AL.....

R..... 2.8

FE+3.....

FE(TOT).....

CA..... 16.

CL..... 93.

QUALIFICATION FIELD..... DISCHARGE MEASURED 1958/08/00

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... DENIS, 1971

ISOIOPES 10/0007

COORDINATES

LAT/LONG... 33-25.66 N 113-12.76 W

UTM ZONE... 12

NORTHING... 3701074.

294356.

RECORD 00170

GEOTHERM FILE ID: 0018159

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF SADDLE MT. (09/10)

WELL/SPRING NUMBER..... 01N-09W-20-BBB

LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... MARICOPA
GEOLOGIC PROVINCE.. CORTEZ PEAK 1162500

MAP REFERENCE.....

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1953/06/00

TEMPERATURE (C)..... 32.

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

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 1060.

TOTAL DISSOLVED SOLIDS... 650.

ANALYSIS IN MG/L

AG.....

AL.....

R.....

FE+3.....

FE(TOT).....

CA.....

CL.....

QUALIFICATION FIELD..... DISCHARGE MEASURED 1958/08/00

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... DENIS, 1971

ISOIOPES 10/0007

COORDINATES

LAT/LONG... 33-25.22 N 113-12.76 W

UTM ZONE... 12

NORTHING... 3699680.

294327.

AL.....
 H.....
 RA.....
 RE.....
 CA.....
 CL.....
 19.
 92.
 QUALIFICATION FIELD..... DISCHARGE MEASURED 1967/09/00
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DENIS, 1971

RECORD 00171
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF SADDLE MT. (10/10)
 WELL/SPRING NUMBER..... 01N-09W-28-DCC
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... CORTEZ PEAK 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1966/11/00
 TEMPERATURE (C)..... 31.
 WELL DEPTH (M)..... 314.
 DISCHARGE..... 7116. L/MIN
 WAPR ANALYSIS

PH..... 7.4
 SPECIFIC CONDUCTANCE..... 1120.
 ANALYSIS IN MG/L

AG.....
 AL.....
 H.....
 RA.....
 HE.....
 CA.....
 CL.....
 17.
 130.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DENIS, 1971

ISOTOPES (0/00)

CO3..... N
 CR.....
 F.....
 FE+3.....
 FE(TQT).....
 HCO3.....
 MG.... 7.2
 NA.... 206.
 NB....
 SI02. 36.
 S04.. 112.

RECORD 00172
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF SADDLE MIN. (1)
 WELL/SPRING NUMBER..... 01N-08W-06-AAA
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... CORTEZ PEAK 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1966/12/00

COORDINATES

LAT/LONG... 33-27.8 N 113-06.6 W
 UTM ZONE... 12
 NORTHING... 3704293.
 303848.

TEMPERATURE (C)..... 32.
 WELL DEPTH (M)..... 231.
 WATER ANALYSIS
 PH..... 8.8
 SPECIFIC CONDUCTANCE..... 911.
 ANALYSIS IN MG/L
 AG..... 40.
 AL.....
 CR..... 10.
 F.....
 NA..... 5102.
 NA+K..... 144.
 NH..... 94.
 FE.....
 FE(TOT)..... 0.02
 HCO3..... 114.
 CL..... 31.
 CL..... 119.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DENIS, 1971

RECORD 00173
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL-SW OF LUKE AIR FORCE BASE
 WELL/SPRING NUMBER..... 02N-02W-24-C882
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 MAP REFERENCE..... WADDELL 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1963/04/30
 TEMPERATURE (C)..... 31.7
 DISCHARGE..... 5413. L/MIN.

TOWNSHIP-RANGE
 02N 002W 24 NW OF NW SW
 86M: GILA AND SALT RIVER

COORDINATES
 LAT/LONG... 33-30.03 N 112-25.52 W

WATER ANALYSIS
 SPECIFIC CONDUCTANCE..... 520.
 ALKALINITY..... 107.
 TOTAL DISSOLVED SOLIDS... 366.
 ANALYSIS IN PPM
 AG.....
 AL.....
 CR.....
 F.....
 FE(TOT).....
 HCO3..... 107.
 CL..... 61.
 OTHER ANALYTICAL DATA... CAC03=73.. SAR=4.3
 QUALIFICATION FIELD... DISCHARGE MEASURED 10/64.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

ISOLOPES 10/001

MG... 8.
 NA... 84.
 NH...
 NO3... 43.
 S04... 47.

RECORD 00174
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL-SW OF LUKE AIR FORCE BASE
 WELL/SPRING NUMBER..... 02N-02W-24-C882
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 MAP REFERENCE..... WADDELL 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1963/04/30
 TEMPERATURE (C)..... 31.7
 DISCHARGE..... 5413. L/MIN.

TOWNSHIP-RANGE
 02N 002W 24 NW OF NW SW
 86M: GILA AND SALT RIVER

COORDINATES
 LAT/LONG... 33-30.03 N 112-25.52 W

COUNTY..... MARICOPA
 MAP REFERENCE..... WADDELL 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1951/02/24
 TEMPERATURE (C)..... 31.7
 WELL DEPTH (M)..... 240.
 DISCHARGE..... 5413. L/MIN.
 WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 520.
 ALKALINITY..... 149. AS HCO3
 TOTAL DISSOLVED SOLIDS... 365.
 ANALYSIS IN PPM

AG.....	CO3..... N	MG....	8.
AL.....	CR.....	NA....	68.
H.....	F.....	NB....	
BE.....	FE(TOT)...		
CA..... 30.	HC03.... 149.	NO3...	10.
CL..... 50.			

OTHER ANALYTICAL DATA... CAC03=108., SAR=2.8
 QUALIFICATION FIELD..... DISCHARGE MEASURED 10/64.
 REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

ISOLOPES 10/001

RECORD 00175

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL-WEST OF GLENDALE
 WELL/SPRING NUMBER..... 02N-01E-02-DD02
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 MAP REFERENCE..... GLENDALE 1:24000

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1963/03/27
 TEMPERATURE (C)..... 30.
 WELL DEPTH (M)..... 579.
 DISCHARGE..... 5034. L/MIN.
 WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 1510.
 ALKALINITY..... 124. AS HCO3
 TOTAL DISSOLVED SOLIDS... 804.
 ANALYSIS IN PPM

AG.....	CO3..... N	MG....	48.
AL.....	CR.....	NA....	119.
H.....	F.....	NB....	
BE.....	FE(TOT)...		
CA..... 98.	HC03.... 124.	NO3...	56.
CL..... 317.			

OTHER ANALYTICAL DATA... CAC03=443., SAR=2.5
 QUALIFICATION FIELD..... DISCHARGE MEASURED 7/64.
 REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... KAM AND OTHERS, 1966

COORDINATES

LAT/LONG... 33-32.18 N 112-13.22 W

ISOLOPES 10/001

GEOTHERM FILE ID: 0018233

RECORD 00176

GEOTHERM FILE ID: 0018232

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL--WEST OF GLENDALE

WELL/SPRING NUMBER..... 02N-01E-02-DDD2

LOCATION

TOWNSHIP-RANGE

02N 001E 02 SE OF SE SE

B&M; GILA AND SALT RIVER

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... MARICOPA

MAP REFERENCE..... GLENDALE 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1962/04/20

TEMPERATURE (C)..... 30.

WELL DEPTH (M)..... 579.

DISCHARGE..... 5034. L/MIN.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 774.

ALKALINITY..... 148. AS HCO3

TOTAL DISSOLVED SOLIDS... 389.

ANALYSIS IN PPM

AG.....

AL.....

B.....

F.....

FE(TOT).....

CA..... 36.

CL..... 118.

CO3..... N

CR.....

MG..... 16.

NA..... 89.

NB.....

NO3..... 17.

S04... 43.

ISOIOPES 10/001

COORDINATES

LAT/LONG... 33-32.18 N 112-13.22 W

UTM ZONE... 13

NORTHING... 3775970.

265370.

ISOIOPES 10/001

WATER ANALYSIS

PH.....

ALKALINITY..... 8.48

TOTAL DISSOLVED SOLIDS... 140.3

CHARGE IMBALANCE (% DIFF)... 232.

ANALYSIS IN PPM

AG.....

AL.....

CO3..... N

CR.....

MG... 0.7

ISOIOPES 10/001

RECORD 00177

GEOTHERM FILE ID: 0018037

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... WARM SPRINGS (NORTH OF SIGNAL MTN.)

WELL/SPRING NUMBER..... 02S-07W-27-DDD

LOCATION

TOWNSHIP-RANGE

02S 007W 27 SE OF SE SE

B&M; GILA AND SALT RIVER

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... MARICOPA

GEOLOGIC PROVINCE... 04

MAP REFERENCE..... WOOLSEY PEAK 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 35.2

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 774.

ALKALINITY..... 148. AS HCO3

TOTAL DISSOLVED SOLIDS... 389.

ANALYSIS IN PPM

AG.....

AL.....

CO3..... N

CR.....

MG... 0.7

ISOIOPES 10/001

B..... 0.28 F..... 3.24 NA.... 74.2 SI02.. 57.5
HE..... FE(TOT).. 0.64 NB.... 504.. 40.3
CA..... 6.4 HC03..... 140.3 P04.. 0.01
CO..... 17. H2S.....
CL..... K..... 1.2
CO.....
QUALIFICATION FIELD..... P04 CALCULATED FROM P.
REFERENCE AND IDENTIFICATION
COMPILED BY..... GOODE, H.
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00178
GEOTERM_SAMPLE_FILE
NAME OF SAMPLE SOURCE... WELL IRRIGATION (SOUTH OF CHANDLER)
LOCATION
TOWNSHIP-RANGE
GEOTHERM FILE 101 0018026

COUNTRY..... UNITED STATES 02S 005E 02 NW
STATE..... ARIZONA 86M: GILA AND SALT RIVER
COUNTY..... MARICOPA
GEOLOGIC PROVINCE..
MAP REFERENCE..... CHANDLER 1:24000
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTION..... 1967/03/22
TEMPERATURE (C)..... 33.9
WELL DEPTH (M)..... 305.
WATER ANALYSIS

PH..... 7.8
SPECIFIC CONDUCTANCE..... 0.8
ALKALINITY..... 93.
CHARGE IMBALANCE (% DIFF).... 18.5
ANALYSIS IN PPM

AG..... CO3..... N L1... 0.046
AL..... CR..... N MG... 2.
AU..... CU..... N
R..... 0.11 F..... 1.3 NA.... 125. SI02.. 18.
RE..... FE(TOT).. 1.1 NB.... 504.. 76.
BI..... GA..... NH4... SR... 1.2
BR..... GE..... NI... N
CA..... 14. HC03..... N03.. 3.
CA+MG. Hg..... PB... N
CL..... N
CL..... 76. ZN... 0.013
CO..... N K..... 2.6

REFERENCE AND IDENTIFICATION
COMPILED BY..... GOODE, H.
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... DUTT AND MCCREARY, 1970

RECORD 00179
GEOTERM_SAMPLE_FILE
NAME OF SAMPLE SOURCE... ANDERSON HOT WELL
LOCATION
TOWNSHIP-RANGE
GEOTHERM FILE 101 0000220

COUNTRY..... UNITED STATES 34-40.8 N 113-58.2 W
COORDINATES
LAT/LONG...

STATE..... ARIZONA
COUNTY..... MOHAVE
GEOLOGIC PROVINCE.. 04
MAP REFERENCE..... DUTCH FLAT NW 1:24000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1978/06
TEMPERATURE (C)..... 44.5
DISCHARGE..... R 70.
WATER ANALYSIS
DATE/ANALYST..... L/MIN
PH..... 7.2
CHARGE IMBALANCE (% DIFF)... 6.9
ANALYSIS IN MG/L

ISOLOPES 10/0001

AL..... 0.85
H..... 0.94
RE.....
CA..... 24.
CL..... 220.
CO.....
K..... 5.5
MG... 0.3
NA... 213.
NB...
SI02.. 32.
S04... 105.

QUALIFICATION FIELD..... RANGE OF DISCHARGE IS 0 TO 140
REFERENCE AND IDENTIFICATION
COMPILED BY..... MARINER, R. H.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... GOFF, 1979

RECORD 00180

GEOTHERM SAMPLE FILE 101 0000095

TOWNSHIP-RANGE

STATE..... ARIZONA
COUNTY..... MOHAVE
GEOLOGIC PROVINCE.. 04
MAP REFERENCE..... HUALAPAI PEAK NE 1:24000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1978/06
TEMPERATURE (C)..... 29.
DISCHARGE..... R 90.
WATER ANALYSIS
DATE/ANALYST..... L/MIN
PH..... 6.2
ANALYSIS IN MG/L

ISOLOPES 10/0001

AL..... 0.46
H..... 4.2
RE.....
CA..... 22.
CL..... 12.
CO.....
K..... 3.9
MG... 22.
NA... 44.
NB...
SI02.. 48.
S04... 13.

QUALIFICATION FIELD..... RANGE OF DISCHARGE IS 0 TO 180
REFERENCE AND IDENTIFICATION
COMPILED BY..... MARINER, R. H.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... GOFF, 1979

RECORD 00181

GEOTHERM FILE ID: 0000093

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... CALICHE SPRINGS
 LOCATION

COUNTRY... UNITED STATES
 STATE... ARIZONA
 COUNTY... MOHAVE

MAP REFERENCE... WARM SPRINGS 1:24000

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTION... 1978/08

TEMPERATURE (C)... 26.
 DISCHARGE... 2.

WATER ANALYSIS
 DATE/ANALYST... L/MIN

PH... 6.0
 ANALYSIS IN MG/L

AL... 0.25
 H... 0.24
 F...
 FE(TOT)...
 CA... 33.
 CL... 24.
 CR...
 K... 7.65

REFERENCE AND IDENTIFICATION

COMPILED BY... MARINER, R. H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE... GOFF, 1979

ISOTOPES 10/001

MG... 12.
 NA... 31.
 NB...
 SI02... 81.
 S04... 17.

RECORD 00182

GEOTHERM FILE ID: 0018075

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... COFER HOT SPRING
 WELL/SPRING NUMBER... 16N-13W-25-CA

COUNTRY... UNITED STATES
 STATE... ARIZONA
 COUNTY... MOHAVE

MAP REFERENCE... WIKIEUP 1:24000

SAMPLE DESCRIPTION AND CONDITIONS
 SAMPLE NUMBER... A284

TEMPERATURE (C)... 32.0

WATER ANALYSIS
 DATE/ANALYST... L/MIN

PH... 8.55
 TOTAL DISSOLVED SOLIDS... 1176.

CHARGE IMBALANCE (% DIFF)... 29.5
 ANALYSIS IN PPM

AG... 252.2
 AL...
 H... 0.31
 HE... 5.4
 CA... 22.4
 CD... 186.1
 CL...
 CR...
 F...
 FE(TOT)... 0.61
 HC03... 327.
 H2S...
 K... 16.
 MG... 20.5
 NA... 345.5
 NB...
 P04... 4 0.15
 SI02... 59.
 S04... 252.1

ISOTOPES 10/001

COORDINATES

LAT/LONG... 34-41.73 N 113-34.39 W
 UTM ZONE... 12
 NORTHING... 3841857.
 264120.

QUALIFICATION FIELD..... P04 CALCULATED FROM P.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

 GEOTHERM_SAMPLE_FILE..... RECORD 00183
 NAME OF SAMPLE SOURCE... DUVAL WELL 4-C
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MOHAVE
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... SECRET PASS 1:24000
 TOWNSHIP-RANGE
 B&M: GILA AND SALT RIVER

COORDINATES
 LAT/LONG... 35-10.8 N 114-16.8 W

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1978/08
 TEMPERATURE (C)..... 36.
 DISCHARGE..... R 1760.

WATER ANALYSIS
 DATE/ANALYST..... L/MIN
 PH..... 6.2
 ANALYSIS IN MG/L

ISOTOPE (O/DOL)

AL..... 0.12 CR..... 23.
 RE..... 0.53 F..... 35.
 CA..... 47. FE(TOT)..... 108.
 CL..... 62. HCO3..... 504..

QUALIFICATION FIELD..... RANGE OF DISCHARGE IS 0 TO 3520
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R. H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GOFF, 1979

 GEOTHERM_SAMPLE_FILE..... RECORD 00184
 NAME OF SAMPLE SOURCE... DUVAL WELL 5-E
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MOHAVE
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... SECRET PASS 1:24000
 TOWNSHIP-RANGE
 B&M: GILA AND SALT RIVER

COORDINATES
 LAT/LONG... 35-10.2 N 114-16.8 W

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1978/08
 TEMPERATURE (C)..... 37.
 DISCHARGE..... R 1360.

WATER ANALYSIS
 DATE/ANALYST..... L/MIN
 PH..... 6.8
 CHARGE IMBALANCE (% DIFF)... 4.2
 ANALYSIS IN MG/L

ISOTOPE (O/DOL)

AL..... 0.12 CR..... 14.
 RE..... 0.53 F..... 50.
 CA..... 47. FE(TOT)..... 54..

CA..... 30. MC03..... 154.
 CL..... 39.
 CO..... K..... 6.07
 QUALIFICATION FIELD..... RANGE OF DISCHARGE IS 0 TO 2720
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R. H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GOFF, 1979

RECORD 00185
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... HOT SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MOHAVE
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... KINGBOLT RAPIDS 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 30.
 REFERENCE AND IDENTIFICATION
 REFERENCE..... BERRY AND OTHERS, 1980
 COORDINATES
 LAT/LONG... 35-57.6 N 114-43.5 W
 GEUTHERM FILE ID: 0001496

RECORD 00186
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... KAISER HOT SPRINGS
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MOHAVE
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... GREENWOOD PEAK 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1978/06
 TEMPERATURE (C)..... 37.
 DISCHARGE..... 60.
 WATER ANALYSIS
 DATE/ANALYST..... L/MIN
 PH..... 7.2
 CHARGE IMBALANCE (% DIFF)... 9.2
 ANALYSIS IN MG/L
 AL..... CR..... 1.6
 R..... F..... 7.4
 HE..... FE(TOT)... 5102.
 CA..... MC03..... 492.
 CL..... 69.
 CO..... K..... 7.7
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R. H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GOFF, 1979
 COORDINATES
 LAT/LONG... 34-36.0 N 113-33.0 W
 GEUTHERM FILE ID: 0000218
 ISOLOPES 10/001
 58.
 123.
 504..

RECORD 00187

GEOTHERM FILE ID: 0001484

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... OATMAN WARM SPRINGS
LOCATION
COUNTRY... UNITED STATES
STATE... ARIZONA
COUNTY... MOHAVE
GEOLOGIC PROVINCE... 04
MAP REFERENCE... WARM SPRINGS 1124000
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C)... 33.
REFERENCE AND IDENTIFICATION
COMPILED BY... MARINER, R
COMPILER AFFILIATION... USGS
REFERENCE... BERRY AND OTHERS, 1980

COORDINATES

LAT/LONG... 34-53.8 N 114-18.5 W

RECORD 00188

GEOTHERM FILE ID: 0018044

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... PAKOON SPRINGS
WELL/SPRING NUMBER... 35N-16W-24-080
LOCATION
COUNTRY... UNITED STATES
STATE... ARIZONA
COUNTY... MOHAVE
GEOLOGIC PROVINCE...
MAP REFERENCE... PAKOON SPRINGS 1124000
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C)... 28.0
WATER ANALYSIS

COORDINATES

LAT/LONG... 36-24.9 N 113-57.4 W
UTM ZONE... 12
NORTHING... 4033841.
234884.

ISOTOPES 10/001

PH... 8.16
ALKALINITY... 245.3 AS HCO3
TOTAL DISSOLVED SOLIDS... 296.
CHARGE IMBALANCE (% DIFF)... 0.3
ANALYSIS IN PPM

AG...	L 0.05	CO3...	N	LI...	0.05	SE...	0.005
AL...	L 1.0	CR...		MG...	19.1	SI02...	22.5
AS...	0.047						
AU...		CU...	L 0.1	MO...			
B...	0.07	F...	L 0.2	NA...	21.1	SR...	0.24
BA...	L 0.4						
BE...		FE(TOT)...	L 0.1	NB...			
HI...		GA...		NH4...			
CA...	55.1	HCO3...	245.3	NO3...	0.2		
CD...		H2S...	1.9	P04...	0.03		
CL...	3.2						
CO...		K...	8.2	ZN...			0.05

QUALIFICATION FIELD... NO3 EQUALS NO2 + NO3. P04 CALCULATED FROM P.
REFERENCE AND IDENTIFICATION
COMPILED BY... GOODE, H.
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE... SWANBERG AND OTHERS, 1977

RECORD 00189

GEOTHERM FILE ID: 0002948

GEO_THERM_SAMPLE_FILE

NAME OF SAMPLE SOURCE... PAKOON SPRINGS
WELL/SPRING NUMBER... 35N-16W-24-DC

LOCATION

COUNTRY... UNITED STATES
STATE... ARIZONA
COUNTY... MOHAVE
GEOLOGIC PROVINCE... 04
MAP REFERENCE... PAKOON SPRINGS 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)... 30.0
OTHER SAMPLE INFORMATION... SMALL SPRINGS ISSUE IN RANCH TANKS AND POUNDS! SOME GAS

WATER ANALYSIS

PH... 7.82
ALKALINITY... 197.
CHARGE IMBALANCE (% DIFF)... 0.5
ANALYSIS IN MG/LAG... CO3...
AL... L 0.001 CR...
AS... CS... L 0.1
AU... CU... L 0.01
H... F... L 0.19
RE... FE(TQT)... L 0.02
HR... GE...
CA... HCO3... 197.
CA+MG... MG... L 0.0001
CL... K... 8.2
CO... R8... L 0.02
C2H6... N2... 77.
C02... 1.4

GAS ANALYSIS

ANALYSIS IN VOLUME %
CH4... L 0.1
C2H6...
C02... 1.4

OTHER ANALYTICAL DATA... DISSOLVED CONSTITUENTS = 38 MG/L.

REFERENCE AND IDENTIFICATION

COMPILED BY... TESHIN, VICTOR
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE... MARINER AND OTHERS, 1977A

COORDINATES

LAT/LONG... 36-24.8 N 113-57.4 W
UTM ZONE... +12
NORTHING... 4033571.
234695.

ISOLOPES (00/01)

DEL D OF WATER... -103.9
DEL O(18) OF WATER... -13.85

ISOLOPES (00/01)

RECORD 00190

GEOTHERM FILE ID: 0018058

GEO_THERM_SAMPLE_FILE

NAME OF SAMPLE SOURCE... PUMPED WELL (A)
WELL/SPRING NUMBER... 16N-19W-03-8AA

LOCATION

COUNTRY... UNITED STATES
STATE... ARIZONA
COUNTY... MOHAVE
GEOLOGIC PROVINCE...
MAP REFERENCE... WARM SPRINGS SE 1:24000OTHER LOCALITY INFORMATION... LOCATION APPROXIMATE.
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C)... 28.3

COORDINATES

LAT/LONG... 34-45.80 N 114-20.55 W
UTM ZONE... +11
NORTHING... 3849821.
743310.

WATER ANALYSIS

PH..... 7.88
ALKALINITY..... 228.2 AS HCO3
TOTAL DISSOLVED SOLIDS... 398.
CHARGE IMBALANCE (% DIFF)... 5.8
ANALYSIS IN PPM

AG.....	CO3..... N	MG...	12.9	SE...	0.002
AL.....	CR.....	MO...		SI02..	42.5
AU.....	CU.....	NA...	71.	S04...	29.8
B.....	F.....	NB...		SR...	0.04
HE.....	FE(TOT)...	NH4...			
BI.....	GA.....	NO3...	15.03		
CA.....	HCO3.....	P04...	0.25		
CD.....	H2S.....				
CL.....					

CO..... K..... 6.6
QUALIFICATION FIELD..... NO3 EQUALS NO2 + NO3. CALCULATED FROM P.
REFERENCE AND IDENTIFICATION
COMPILED BY..... GOODE, H.
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... SWANBERG AND OTHERS, 1977

ISOIOPES (0/001)

RECORD 00191

GEOTHERM FILE ID: 0018056

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... PUMPED WELL (EAST OF BLACK MTS.)
WELL/SPRING NUMBER..... 17N-18W-01-DD

TOWNSHIP-RANGE

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... MOHAVE
GEOLOGIC PROVINCE.. 04
MAP REFERENCE..... YUCCA NW 1:24000
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C)..... 32.2

COORDINATES

LAT/LONG.... 34-52.9 N 114-08.6 W
UTM ZONE... 11
NORTHING... 3863447.
761094.

PH..... 7.87
ALKALINITY..... 62.8 AS HCO3
TOTAL DISSOLVED SOLIDS... 284.
CHARGE IMBALANCE (% DIFF)... 0.7
ANALYSIS IN PPM

AG.....	CO3..... N	MG...	12.1	SE...	0.002
AL.....	CR.....	MO...	32.2	SI02..	42.5
AU.....	F.....	NA...		S04...	29.8
B.....	FE(TOT)...	NB...		SR...	0.04
HE.....	GA.....	NO3...	15.03		
BI.....	HCO3.....	P04...	0.25		
CA.....	H2S.....				
CD.....					
CL.....					

CO..... K..... 3.1
QUALIFICATION FIELD..... P04 CALCULATED FROM P.
REFERENCE AND IDENTIFICATION
COMPILED BY..... GOODE, H.
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... SWANBERG AND OTHERS, 1977

ISOIOPES (0/001)

RECORD 00192

GEOTHERM FILE ID: 0018057

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... PUMPED WELL (SE OF BLACK MTS.)

WELL/SPRING NUMBER..... 17N-18W-36-DBA

LOCATION

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... MOHAVE

GEOLOGIC PROVINCE..

MAP REFERENCE..... YUCCA 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 29.4

WATER ANALYSIS

PH..... 7.84

ALKALINITY..... 181.8 AS HCO3

TOTAL DISSOLVED SOLIDS... 412.

CHARGE IMBALANCE (% DIFF)... 5.5

ANALYSIS IN PPM

AG.....

AL.....

H..... 0.09

HE.....

CA..... 43.5

CD.....

CL..... 60.6

CO.....

K..... 5.1

QUALIFICATION FIELD..... PO4 CALCULATED FROM P.

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... SWANBERG AND OTHERS, 1977

ISOLOPES 10/001

COORDINATES

LAT/LONG...

UTM ZONE...

NORTHING...

EASTING...

TOWNSHIP-RANGE

17N 018W 36

B&M: GILA AND SALT RIVER

SE OF NW SE

34-48.8 N 114-08.9 W

+11

3855854.

760853.

RECORD 00193

GEOTHERM FILE ID: 0018055

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... WARM SPRING (EAST OF HUALAPAI INDIAN RESERVATION)

WELL/SPRING NUMBER..... 18N-13W-25-BAC

LOCATION

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... MOHAVE

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... TOM BROWN CANYON 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 28.3

WATER ANALYSIS

PH..... 7.93

ALKALINITY..... 413.7 AS HCO3

TOTAL DISSOLVED SOLIDS... 1580.

CHARGE IMBALANCE (% DIFF)... 0.5

ANALYSIS IN PPM

AG.....

CO3..... N

COORDINATES

LAT/LONG...

UTM ZONE...

NORTHING...

EASTING...

TOWNSHIP-RANGE

18N 013W 25

B&M: GILA AND SALT RIVER

SE OF NW NW

34-55.00 N 113-36.00 W

+12

3866714.

261558.

ISOLOPES 10/001

AL..... 4.0 CR..... 9.6
 R..... 8.72 NA..... 522.5
 HE..... 0.19 NB..... 29.
 CA..... 32.9 HCO3..... 413.7 217.1
 CD..... H2S..... 0.49
 CL..... 492.1
 CO..... K..... 13.7
 QUALIFICATION FIELD..... P04 CALCULATED FROM P.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION..... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00194

GEOTHERM FILE ID: 0000094

COORDINATES

LAT/LONG... 34-54.6 N 114-21.0 W

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... WARM SPRING NO. 1
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MOHAVE
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... WARM SPRINGS 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1978/08
 TEMPERATURE (C)..... 33.
 DISCHARGE..... T
 OTHER SAMPLE INFORMATION.. SEEP
 WATER ANALYSIS
 DATE/ANALYST..... L/MIN
 PH..... 7.8
 ANALYSIS IN MG/L

ISOLOPES (0/000)

AL..... 19.
 R..... 37.
 RE..... 61.
 CA..... 21.
 CL.....
 CO.....
 K.....
 MG.....
 NA.....
 NB.....

REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R. H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GOFF, 1979

RECORD 00195

GEOTHERM FILE ID: 0000216

COORDINATES

LAT/LONG... 34-54.6 N 114-21.0 W

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... WARM SPRING NO. 2
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... MOHAVE
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... WARM SPRINGS 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1978/08
 TEMPERATURE (C)..... 27.
 DISCHARGE..... T

B&M: GILA AND SALT RIVER

OTHER SAMPLE INFORMATION.. SEEP

WATER ANALYSIS

DATE/ANALYST..... L/MIN
PH..... 6.8
CHARGE IMBALANCE (% DIFF).... 8.9
ANALYSIS IN MG/L

AL.....	CR.....	MG....	20.
8.....	F.....	NA....	36.
HE.....	FE(TOT)...	NB....	
CA.....	HCO3.....		
CL.....	32.		
CO.....	K.....		
	4.94		

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R. H.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... GOFF, 1979

RECORD 00196

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... WELL INDUSTRIAL USE

LOCATION..... TOWNSHIP=RANGE

COUNTRY..... UNITED STATES 21N 018W 20 NE OF NE SW
STATE..... ARIZONA 85M: GILA AND SALT RIVER
COUNTY..... MOHAVE

GEOLOGIC PROVINCE..

MAP REFERENCE..... KINGMAN NW 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1967/10/16
TEMPERATURE (C)..... 37.2
WELL DEPTH (M)..... 390.

WATER ANALYSIS

PH..... 7.6
SPECIFIC CONDUCTANCE..... 0.7
ALKALINITY..... 146.
CHARGE IMBALANCE (% DIFF).... 3.1

ANALYSIS IN PPM

AG.....	CO3.....	N	LI....	0.015
AL.....	CR.....	0.015	MG....	25.
AS.....	CS.....		MN....	0.003
AV.....	CU.....	0.011	NA....	53.
R.....	F.....	1.5	S102..	18.
RE.....	FE(TOT)...	0.162	S04....	125.
HI.....	GA.....		SR....	0.815
HR.....	GE.....		NI....	N
CA.....	HCO3.....	146.	NO3....	9.
CA+MG..	HG.....		PR....	0.029
CD.....	N			
CL.....	12.			
CO.....	K.....	6.		
			ZN....	0.011

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... DUTT AND MCCREARY, 1970

ISOTOPES (0/001)

COORDINATES

LAT/LONG... 35-10.5 N 114-13.1 W
UTM ZONE... 11
NORTHING... 3897027.
752659.

ISOTOPES (0/001)

GEOTHERM FILE ID: 0018025

RECORD 00197

GEOTHERM FILE ID: 0018024

-----GÉOTHERM_SAMPLE-EILE

NAME OF SAMPLE SOURCE... WELL INDUSTRIAL USE
GEOTHERM FILE ID: 00180224

LOCALITY: TOWNSHIP-RANGE

[illegible]

MAP REFERENCE..... KINGMAN NW 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1967/10/16

TEMPERATURE (C)..... 37.2

...VĚL DEŠŤ (M).....
421.

SYSTEM_ANALYSIS

7.8

SPECIFIC CONDUCTANCE..... 0.4

ALKALINITY..... 171.
AS HC03..... 171.

CHARGE IMBALANCE (% DIFF) ... 0.2

ANALYSIS IN PPM

AG....	CO3,....	LI...	0.021	ISOIOPES 10/2001

AL.....	
CR.....	0.006
MG.....	13
.....	13

AS.....
CS.....
HN.....
MM.....
0.003

AU.....	0.016
CU.....	0.016

[illegible][illegible]

HI.....
 GA.....
 NH4.....
 3S.....
 3C.....

HR.....
GE.....
NT.....
NT.....
Z.....
ZK.....
00/69

CA.....	32.	HC03	171	N03	N 7
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CA+MG-

1. **Introduction**

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 94. **THE**
 95. **THE**
 96. **THE**
 97. **THE**
 98. **THE**
 99. **THE**
 100. **THE**

[illegible]

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COMPILED BY.....
CODE.....
CODE.....

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[illegible]

1. **CONTRACT AND VARIATION...**
 2. **REFERENCE**
 3. **UNIT AND MEASUREMENTS**
 4. **ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY**

RECORD 00198

ETHERM_SAMPLE.FILE

NAME OF SAMPLE SOURCE... ONE MILE SPRING

LOCATION
CONCRETE ONE HILL
TOWNSHIP-RANGE
CONCRETE

COUNTRY.....	UNITED STATES
LONGITUDE.....	30N 02W
COORDINATES	SW

UNITED STATES
ARIZONA
STATE.....
JUN 023W 10 3W
LAI/LUNG... 36-00.0 N 114-44.3 W

COUNTY - ARIZONA MO JAVE

MAP REFERENCE.....
RINGBOI T 040105 1124000
HUCKAVE.....

SAMPLE	DESCRIPTION AND CONDITIONS	VINYL CAPLOS	1024000

DATE/COLLECTOR 1974/00/24

TEMPERATURE (C) 19/4/09/24

UNCLASSIFIED ANALYSIS

MOJIB LABORATORY, MIAMISBURG, OHIO.
 RADIATION ANALYTICAL COMMENTS... PROCEDURES: EPA HANDBOOK OF RADIOCHEMICAL ANALYTICAL METHODS, 1975; MODIFICATION OF
 METHODS IN ITALVIE, 1971; STEAM SAMPLING; STOKER AND KRUGER, 1975.
 RADIOISOTOPES

K-40..... L 0.011
 PB-210..... L 0.0089
 RA-226..... 0.75 +/- 0.13
 RA-228..... 0.032 +/- 0.029
 U-238..... 0.052 +/- 0.029

REFERENCE AND IDENTIFICATION
 COMPILED BY..... BLISS, JAMES D.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... O'CONNELL AND KAUFMAN, 1976

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... AGUA CALIENTE SPRING
 WELL/SPRING NUMBER..... 13S-16E-20-DCC
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... PIMA
 GEOLOGIC PROVINCE...
 MAP REFERENCE..... BELLOTA RANCH 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 SAMPLE NUMBER..... A270
 TEMPERATURE (C)..... 30.4
 WATER ANALYSIS
 PH..... 7.79
 TOTAL DISSOLVED SOLIDS... 632.
 C-ARGE IMBALANCE (% DIFF)... 9.5
 ANALYSIS IN PPM
 AG..... L 0.06
 AL..... L 1.0
 AS..... 0.010
 AU.....
 R..... 0.12
 HA..... L 0.2
 HE.....
 HI.....
 CA..... 26.
 CD.....
 CL..... 26.
 CO.....
 QUALIFICATION FIELD..... NO3 EQUALS NO2 + NO3. P04 CALCULATED FROM P.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

COORDINATES
 LAT/LONG... 32-16.87 N 110-43.72 W
 UTM ZONE... 12
 NOTHING... 3571500.
 525425.

ISOTOPES (0/00)

LI... 0.35
 MG... 2.4
 MU...
 NA... 133.
 SE... 0.007
 SI02... 58.
 NB...
 NH4... L 0.05
 NO3... Q 1.7
 PO4... Q 0.06
 K..... 5.5
 ZN... L 0.02

RECORD 00199

GEOTHERM FILE ID: 0018079

COORDINATES

LAT/LONG... 32-20.2 N 110-42.5 W

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... MERCER SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 TOWNSHIP-RANGE

TOWNSHIP-RANGE

 RECORD 00200

STATE..... ARIZONA
COUNTY..... PIMA
GEOLOGIC PROVINCE.. 04
MAP REFERENCE..... BALLOTA RANCH 1162500
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C)..... 25.
REFERENCE AND IDENTIFICATION
COMPILED BY..... MARINER, R
COMPILER AFFILIATION... USGS
REFERENCE..... BERRY AND OTHERS, 1980

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... MONKEY SPRING
WELL/SPRING NUMBER..... 21S-16E-03-CAC
LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... PIMA
GEOLOGIC PROVINCE..
MAP REFERENCE..... ELGIN 1162500
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C)..... 28.3
WATER ANALYSIS

PH..... 7.42
ALKALINITY..... 322.2 AS HCO3
TOTAL DISSOLVED SOLIDS... 1000.
ANALYSIS IN PPM
AG..... L 0.06
AL..... L 1.0
AS..... 0.010
AU.....
BA..... 0.07
BA..... L 0.4
BF.....
HI.....
CA..... 180.4
CA+MG.
CD.....
CL..... N
CO.....

COORDINATES
LAT/LONG... 31-38.03 N 110-42.22 W
UTM ZONE... 12
NORTHING... 3499831.
528133.

TOWNSHIP-RANGE
21S 016E 03
86M GILA AND SALT RIVER

ISOLOPES 10/001

LI... 0.02
MG... 53.7
SE... 0.003
SI02. 17.5
SO4.. 407.8
SR... 1.66
NB...
NH4... 0.2
NO3.. 1.41
P04.. 0 0.34
ZN... L 0.02

QUALIFICATION FIELD... NO3 EQUALS NO2 + NO3. P04 CALCULATED FROM P.
REFERENCE AND IDENTIFICATION
COMPILED BY..... GOODE, H.
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... SWANBERG AND OTHERS, 1977

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... QUITOBAQUITO SPRINGS
LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... PIMA

TOWNSHIP-RANGE
86M GILA AND SALT RIVER

COORDINATES
LAT/LONG... 31-56.6 N 113-01.0 W
UTM ZONE... 12
NORTHING... 3536482.

RECORD 00201

GEOTHERM FILE ID: 0018051

RECORD 00202

GEOTHERM FILE ID: 0002949

GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... 309390.
 OTHER LOCALITY INFORMATION: QUITOBAQUITO SPRINGS 1162500
 LOCATION APPROXIMATE; UNCERTAIN WHICH SPRING SAMPLED

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 23.0
 DISCHARGE..... G 100. L/MIN
 OTHER SAMPLE INFORMATION.. NUMEROUS SMALL SEEP SPRINGS

WATER ANALYSIS

PH.....	7.9			
ALKALINITY.....	298.	AS	HC03	
TOTAL DISSOLVED SOLIDS.....	820.			
CHARGE IMBALANCE (% DIFF)....	0.8			
ANALYSIS IN MG/L				
AG.....	CO3.....	LI....	0.11	S....
AL.....	CR.....	MG....	10.	SB....
AS.....	CS.....	MN....	L 0.02	
AU.....	CU.....			
H.....	F.....	NA....	190.	SI02.
HE.....	FE(TOT).....	NB....		S04..
HR.....	GE.....	NI....	L 0.02	
CA.....	HC03.....			
CL.....				
CO.....	K.....	RB....	L 0.02	ZN... L 0.01

ISOLOPES (10/001)
 DEL D OF WATER..... -61.7
 DEL O(10) OF WATER... -8.28

QUALIFICATION FIELD..... DISCHARGE IS AGGREGATE FLOW OF SEEP SPRINGS.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... TESHIN, VICTOR
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... MARINER AND OTHERS, 1977A

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL IN AURA VALLEY (1/2)
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... PIMA
 TOWNSHIP-RANGE
 14S 011E 33 SW OF SW SW

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1955/07/18
 TEMPERATURE (C)..... 30.5
 WELL DEPTH (M)..... 217.

WATER ANALYSIS

PH..... 7.1
 SPECIFIC CONDUCTANCE..... 336.
 TOTAL DISSOLVED SOLIDS.... 222.

AG.....	CO3.....	N	
AL.....	CR.....	7.1	MG....
HA.....	F.....	0.6	NA....
HE.....	FE+3.....	34.	NA+K.
CA.....	FE(TOT).....		NB....
CL.....	HC03.....	166.	NO3..
			2.3

ISOLOPES (10/001)

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... WHITE AND OTHERS, 1966

RECORD 00203

GEOTHERM FILE ID: 0018178

COORDINATES

MAJOR ANALYSIS

PH..... 8.6
TOTAL DISSOLVED SOLIDS... 1004.
ANALYSIS IN PPM
AL.....
CR..... 2.
F..... 1.6
FE(TOT)..... 228.
HE.....
CA..... 29. 504.. 176.
MC03..... 559.
CL..... 8.
REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... *DATA FROM FILES OF CITY OF TUCSON

RECORD 00207

GEOTHERM FILE ID: 0018187

GEOTHERM_SAMPLE_FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL IN TUCSON AREA (03/11)
LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... PIMA
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1975/11/14
TEMPERATURE (C)..... 30.3
WELL DEPTH (M)..... 335.
COORDINATES

TOWNSHIP-RANGE
16S 01SE 07

SE OF SE NE

COORDINATES

WATER ANALYSIS

PH..... 7.8
TOTAL DISSOLVED SOLIDS... 419.
ANALYSIS IN PPM
AL.....
B.....
BE.....
CA..... 31.
CL..... 26.
CR.....
F..... 0.98
FE(TOT).....
MC03..... 195.
MG..... 4.3
NA..... 61.
NB.....
S04.. 99.

ISOLOPES 10/001

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... *DATA FROM FILES OF CITY OF TUCSON

RECORD 00208

GEOTHERM FILE ID: 0018186

GEOTHERM_SAMPLE_FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL IN TUCSON AREA (04/11)
LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... PIMA
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1900/00/00
TEMPERATURE (C)..... 31.5
WELL DEPTH (M)..... 305.
COORDINATES

TOWNSHIP-RANGE
17S 014E 03

SW OF SW SE

COORDINATES

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... *DATA FROM FILES OF CITY OF TUCSON

RECORD 00209

GEOTHERM FILE ID: 0018185

COORDINATES

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL IN TUCSON AREA (05/11)
LOCATION
COUNTRY..... UNITED STATES 16S 015E 28 SE OF SE SE
STATE..... ARIZONA

COUNTY..... PIMA
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1976/03/19

TEMPERATURE (C)..... 31.8
WELL DEPTH (M)..... 305.

REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... *DATA FROM FILES OF CITY OF TUCSON

RECORD 00210

GEOTHERM FILE ID: 0018184

COORDINATES

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL IN TUCSON AREA (06/11)
LOCATION
COUNTRY..... UNITED STATES 17S 014E 01 NW OF NE NE
STATE..... ARIZONA

COUNTY..... PIMA
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C)..... 33.5
WELL DEPTH (M)..... 456.

REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... *DATA FROM FILES OF CITY OF TUCSON

RECORD 00211

GEOTHERM FILE ID: 0018183

COORDINATES

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL IN TUCSON AREA (07/11)
LOCATION
COUNTRY..... UNITED STATES 15S 011E 11 NW OF NW NW
STATE..... ARIZONA

COUNTY..... PIMA
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1973/10/00
TEMPERATURE (C)..... 34.4
WELL DEPTH (M)..... 338.

WATER ANALYSIS
PH..... 8.2
TOTAL DISSOLVED SOLIDS... 283.
ANALYSIS IN PPM

AL..... CR..... MG... 1.3
H..... F..... NA... 44.
HE..... FE(TOT)... NB...
CA..... 26. HCO3... 195.

CL... 11.
REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... *DATA FROM FILES OF CITY OF TUCSON

ISOTOPES (02/001)

S04... 3.

GEOTERM_SAMPLE_FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL IN TUCSON AREA (08/11)
LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... PIMA
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1975/06/09
TEMPERATURE (C)..... 34.9
WELL DEPTH (M)..... 449.
REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... *DATA FROM FILES OF CITY OF TUCSON

RECORD 00212
GEOTERM FILE ID: 0018182
COORDINATES

GEOTERM_SAMPLE_FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL IN TUCSON AREA (09/11)
LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... PIMA
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1976/08/12
TEMPERATURE (C)..... 30.4
WELL DEPTH (M)..... 199.
WATER ANALYSIS
PH..... 7.7
TOTAL DISSOLVED SOLIDS... 392.
ANALYSIS IN PPM
AL.....
BR.....
RE.....
CA..... 57.
CL..... 11.
CR.....
F..... 0.38
FE(TOT).....
MG..... 3.7
NA.....
NB.....
S04... 12.
SLOPES (0/100)
REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... *DATA FROM FILES OF CITY OF TUCSON

RECORD 00213
GEOTERM FILE ID: 0018181
COORDINATES

GEOTERM_SAMPLE_FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL IN TUCSON AREA (10/11)
LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... PIMA
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1975/03/15
TEMPERATURE (C)..... 30.8
WELL DEPTH (M)..... 389.
WATER ANALYSIS
PH..... 8.1

RECORD 00214
GEOTERM FILE ID: 0018180
COORDINATES

ISOTOPE 10/001

TOTAL DISSOLVED SOLIDS... 266.

ANALYSIS IN PPM

AL..... CR..... 2.7
 H..... F..... 51.
 RE..... 0.4
 CA..... 16. S04... 5.
 CL..... 12. HCO3.... 181.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... *DATA FROM FILES OF CITY OF TUCSON

RECORD 00215

GEOTHERM FILE ID: 0018179

COORDINATES

NAME OF SAMPLE SOURCE... UNNAMED WELL IN TUCSON AREA (11/11)
 LOCATION
 COUNTRY..... UNITED STATES 145 01E 34 SW OF NW NW
 STATE..... ARIZONA
 COUNTY..... PIMA

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1975/02/09
 TEMPERATURE (C)..... 32.
 WELL DEPTH (M)..... 384.

MAJOR ANALYSIS

PH..... 6.7
 TOTAL DISSOLVED SOLIDS... 431.

ANALYSIS IN PPM

AL..... CR..... 13.
 R..... F..... 105.
 RE..... 0.38 S04... 43.
 CA..... 47. HCO3.... 142.
 CL..... 63.

ISOTOPE 10/001

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... *DATA FROM FILES OF CITY OF TUCSON

RECORD 00216

GEOTHERM FILE ID: 0018000

COORDINATES

NAME OF SAMPLE SOURCE... UNNAMED WELL NEAR PAPAGO FARMS
 LOCATION
 COUNTRY..... UNITED STATES 055 01W 19
 STATE..... ARIZONA
 COUNTY..... PIMA

LAT/LONG... 31-47.6 N 112-18.0 W

MAP REFERENCE

MAP REFERENCE... KOM VO 1162500

OTHER LOCALITY INFORMATION: PAPAGO INDIAN RESERVATION; LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1978/06/23
 TEMPERATURE (C)..... 43.7
 AMBIENT TEMP (C)..... 20.
 WELL DEPTH (M)..... 120.
 GRADIENT (C/KM)..... 136.

OTHER SAMPLE INFORMATION... PAPAGO WELL NUMBER IS PFU-A. THIS WELL LINES UP BETWEEN PF-1 AND UW-Z. TEMPERATURE AND GRADIENT WERE MEASURED AND ARE IN LINE WITH 2 OTHER KNOWN "HIGH"-TEMP. WELLS AT PAPAGO FARMS. REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED.

WATER ANALYSIS
ANALYSIS IN PPM
REFERENCE AND IDENTIFICATION
COMPILED BY..... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... *ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

RECORD 00217

GEOTHERM FILE ID: 0018017

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... WELL DOMESTIC USE

LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... PIMA
GEOLOGIC PROVINCE... 04
MAP REFERENCE..... TUCSON SW 1:24000

COORDINATES
LAT/LONG... 32-01.054N 110-55.486W
UTM ZONE... 12
NORTHING... 3542198.
EASTING... 507105.

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1967/06/22
TEMPERATURE (C)..... 40.6
WELL DEPTH (M)..... 183.

WATER ANALYSIS

PH..... 7.7
SPECIFIC CONDUCTANCE..... 500.
ALKALINITY..... 210.
CHARGE IMBALANCE (% DIFF)... 1.7
ANALYSIS IN PPM

AG.....	CO3.....	LI...	0.016
AL.....	CR.....	MG...	11.
AS.....	CS.....	MN...	0.039
AU.....	CU.....	NA...	26.
0.06	F.....	NH4...	25.
HE.....	FE(TOT)...	NH...	76.
HI.....	GA.....	NI...	0.371
HR.....	GE.....	NO3...	18.
CA.....	HCO3.....	PB...	N
CA+MG...	HG.....		
CD.....			
CL.....			
CO.....	K.....	ZN...	0.027
2.4			

ISOIOPES 10/001

REFERENCE AND IDENTIFICATION
COMPILED BY..... GOODE, H.
COMPILED BY..... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... DUTT AND MCCREARY, 1970

RECORD 00218

GEOTHERM FILE ID: 0018018

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... WELL DOMESTIC USE

LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... PIMA
GEOLOGIC PROVINCE...
MAP REFERENCE.....

COORDINATES
LAT/LONG... 32-10.955N 110-57.182W
UTM ZONE... 12
NORTHING... 3560487.
EASTING... 504428.

OTHER LOCALITY INFORMATION: WELL DOMESTIC USE (SOUTH TUCSON)
WELL DOMESTIC USE SOUTH TUCSON

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1966/06/13
TEMPERATURE (C)..... 30.7
WELL DEPTH (M)..... 270.

WATER ANALYSIS

PH..... 7.8
SPECIFIC CONDUCTANCE..... 1.0
ALKALINITY..... 120.
CHARGE IMBALANCE (% DIFF).... 4.4
ANALYSIS IN PPM

AG.....	CO3..... N	LI.... N
AL.....	CR.....	MG.... 10.
R..... 0.55	F..... 1.8	NA.... 120.
RE.....	FE(TOT).....	NB....
CA..... 71.	HC03..... 120.	NO3... 2.
CL..... 104.		
CO.....	K..... 3.6	

OTHER ANALYTICAL DATA... TRACE ELEMENT DATA NOT AVAILABLE.

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... DUTT AND MCCREARY, 1970

ISOTOPIES (0/001)

RECORD 00219

GEOHEM SAMPLE FILE

NAME OF SAMPLE SOURCE... WELL IRRIGATION (NORTH OF IRON BELL RANCH)
WELL/SPRING NUMBER..... 12S-12E-34-DBD

LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... PIMA
GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... JAYNES 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1967/06/20
TEMPERATURE (C)..... 37.8
WELL DEPTH (M)..... 96.

WATER ANALYSIS

PH..... 8.4
SPECIFIC CONDUCTANCE..... 400.
CHARGE IMBALANCE (% DIFF).... 2.1
ANALYSIS IN PPM

AG.....	CO3..... 2.	LI....	0.098
AL.....	CR..... N	MG....	1.
AS.....	CS.....	MN.... N	
AU.....	CU..... N		
B..... 0.32	F..... 0.7	NA....	108.
RE.....	FE(TOT)..... 0.366	NH....	SI02. 12.
RI.....	GA.....	NH4...	504... 22.
BR.....	GE.....	NI.... N	SH.... 0.167
CA..... 5.	HC03..... 220.	NO3... 8.	
CANIG.	HG.....	PB....	0.018
CL..... N			
CL.....			36.

ISOTOPIES (0/001)

COORDINATES

LAT/LONG... 32-20.5 N 111-06.1 W
UTM ZONE... 12
NORTHING... 3577883.
490426.

GEOHEM FILE ID: 0018021

CO.....N K..... 1.1 ZN... 0.07
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DUTT AND MCCREARY, 1970

----- RECORD 00220
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... WELL IRRIGATION (NORTH OF JAYNES)
 LOCATION
 COUNTRY..... UNITED STATES 13S 013E 17 NE OF NE SW
 STATE..... ARIZONA
 COUNTY..... PIMA
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... JAYNES 1:24000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1967/06/22
 TEMPERATURE (C)..... 31.9
 WELL DEPTH (M)..... 64.
 WATER ANALYSIS

COORDINATES
 LAT/LONG... 32-18.0 N 111-02.3 W
 UTM ZONE... +12
 NORTHING... 3573233.
 496651.

PH..... 7.8
 SPECIFIC CONDUCTANCE..... 1000.
 ALKALINITY..... 220. AS HC03
 CHARGE IMBALANCE (% DIFF).... 7.0
 ANALYSIS IN PPM

AG..... CO3..... N LI... 0.210
 AL..... CR..... MG... 12.
 AS..... CS..... MN... 0.39
 AU..... CU..... 0.055
 H..... 0.07 F..... 105. SI02. 12.
 RE..... FE(TOT) 6.1 NB... 200.
 RI..... GA..... NH4... 1.588
 CA..... 104. HC03... 7.
 CL..... 84. PR... N

ISOIOPES (0/001)

CO..... 0.051 K..... 3.3 ZN... 0.281
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DUTT AND MCCREARY, 1970

----- RECORD 00221
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... WELL IRRIGATION (NW OF IRON BELL RANCH)
 WELL/SPRING NUMBER..... 12S-12E-34-DBB
 LOCATION
 COUNTRY..... UNITED STATES 12S 012E 34 NW OF NW SE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... PIMA
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... JAYNES 1:24000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.
 SAMPLE DESCRIPTION AND CONDITIONS

COORDINATES
 LAT/LONG... 32-20.7 N 111-06.1 W
 UTM ZONE... +12
 NORTHING... 3578083.
 490226.

DATE/COLLECTOR..... 1967/06/20

TEMPERATURE (C)..... 31.9

WELL DEPTH (M)..... 91.

WATER ANALYSIS

PH..... 9.2

SPECIFIC CONDUCTANCE..... 0.3

CHARGE IMBALANCE (% DIFF).... 19.1

ANALYSIS IN PPM

AG.....	CO3..... 5.	LI.....	0.040
AL.....	CR..... N	MG.....	N
AS.....	CS.....	MN.....	0.167
AU.....	CU..... N	NA.....	66.
B.....	F..... 1.3	NB.....	11.
RE.....	FE(TQT).... 1.285	SR.....	38.
RI.....	GA.....	NH4....	N
HR.....	GE.....	NI.....	N
CA.....	HC03..... 63.	NO3....	6.
CA+MG..	HG.....	PB.....	0.052
CD..... N			
CL..... 60.			
CO..... N	K..... 0.8	ZN.....	0.089

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.

COMPILER AFFILIATION.... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... DUTT AND MCCREARY, 1970

GEOTHERM SAMPLE FILE..... RECORD 00222
 NAME OF SAMPLE SOURCE... WELL IRRIGATION (SOUTH OF RILLITO)
 WELL/SPRING NUMBER..... 12S-12E-07-CAA
 LOCATION.....

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... PINA
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... MARANA 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

DATE/COLLECTOR..... 1967/06/20
 TEMPERATURE (C)..... 30.8
 WELL DEPTH (M)..... 107.

WATER ANALYSIS

PH..... 7.6

SPECIFIC CONDUCTANCE..... 1.0

ALKALINITY..... 268.

CHARGE IMBALANCE (% DIFF).... 28.2

ANALYSIS IN PPM

AG.....	CO3..... N	LI.....	0.026
AL.....	CR..... N	MG.....	10.
AS.....	CS.....	MN.....	N
AU.....	CU..... N	NA.....	86.
B.....	F..... 0.4	NB.....	34.
RE.....	FE(TQT).... N	SR.....	168.
RI.....	GA.....	NH4....	1.37
HR.....	GE.....	NI.....	N

COORDINATES

LAT/LONG.... 32-24.0 N 111-09.5 W
 UTM ZONE.... +12
 NORTHING.... 3584504.
 485218.

ISOTOPE 10/001

CA..... 65. HC03..... 268. NU3.. 25.
 CA+MG. PG..... N
 CD..... 92.
 CL..... K..... 2.8 ZN... 3.03
 CO.....
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DUTT AND MCCREARY, 1970

 GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... WELL IRRIGATION (WEST OF IRON BELL RANCH)
 WELL/SPRING NUMBER..... 125-12E-34-DCC
 LOCATION

COUNTRY..... UNITED STATES 125 012E 34 SW OF SW SE
 STATE..... ARIZONA 86M; GILA AND SALT RIVER
 COUNTY..... PIMA
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... JAYNES 1:24000
 OTHER LOCALITY INFORMATION; LOCATION APPROXIMATE
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1967/06/20
 TEMPERATURE (C)..... 31.9
 WELL DEPTH (M)..... 93.
 WATER ANALYSIS

PH..... 8.0
 SPECIFIC CONDUCTANCE..... 0.5
 ALKALINITY..... 278.
 CHARGE IMBALANCE (% DIFF).... 1.2
 ANALYSIS IN PPM

AG..... CO3..... N LI... 0.049
 AL..... CR..... N MG... 9.
 AS..... CS..... N MN... N
 AU..... CU..... N
 B..... F..... 0.5 55. S102. 35.
 BE..... FE(TQT) 0.34 NH... 26.
 HI..... GA..... NH4... 1.1
 CA..... 59. CA... 278. NO3... 7.
 CA+MG. HG..... 0.121
 CU..... N
 CL..... 40. ZN... 0.303

 GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... WELL ON PAPAGO INDIAN RESERVATION NEAR PAPAGO FARM-2
 WELL/SPRING NUMBER..... 19S-01E-07-BBC
 LOCATION

COUNTRY..... UNITED STATES 19S 001E 07 SE OF NW NW
 STATE..... ARIZONA 31-47.13 N 112-18.55 W
 COUNTY..... PIMA
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... JAYNES 1:24000
 OTHER LOCALITY INFORMATION; LOCATION APPROXIMATE
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1967/06/20
 TEMPERATURE (C)..... 31.9
 WELL DEPTH (M)..... 93.
 WATER ANALYSIS

PH..... 8.0
 SPECIFIC CONDUCTANCE..... 0.5
 ALKALINITY..... 278.
 CHARGE IMBALANCE (% DIFF).... 1.2
 ANALYSIS IN PPM

AG..... CO3..... N LI... 0.049
 AL..... CR..... N MG... 9.
 AS..... CS..... N MN... N
 AU..... CU..... N
 B..... F..... 0.5 55. S102. 35.
 BE..... FE(TQT) 0.34 NH... 26.
 HI..... GA..... NH4... 1.1
 CA..... 59. CA... 278. NO3... 7.
 CA+MG. HG..... 0.121
 CU..... N
 CL..... 40. ZN... 0.303

 GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... WELL ON PAPAGO INDIAN RESERVATION NEAR PAPAGO FARM-2
 WELL/SPRING NUMBER..... 19S-01E-07-BBC
 LOCATION

COORDINATES
 LAT/LONG... 31-47.13 N 112-18.55 W

RECORD 00224

GEOTHERM FILE ID: 0018002

STATE..... ARIZONA
 COUNTY..... PIMA
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... KOM VO 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1957/09/13
 TEMPERATURE (C)..... 46.0
 AMBIENT TEMP (C)..... 20.
 WELL DEPTH (M)..... 218.
 GRADIENT (C/KM)..... 119.
 DISCHARGE..... 7571. L/MIN
 OTHER SAMPLE INFORMATION.. PAPAGO WELL NUMBER IS PAPAGO FARMS-1 (PF-1)
 WATER ANALYSIS

PH..... 7.7
 SPECIFIC CONDUCTANCE..... 599.
 ALKALINITY..... 249.
 TOTAL DISSOLVED SOLIDS... 417.
 ANALYSIS IN PPM
 AG..... CO3..... N
 AL..... CR..... 1.9
 H..... 0.14
 HA..... F..... 12.
 HE..... FE+3.....
 CA..... 15.
 CL..... HCO3..... 249.
 SI02. 64.
 SO4.. 40.
 NO3.. 3.0

REFERENCE AND IDENTIFICATION
 COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... HEINDL AND COSNER, 1961

RECORD 00225
 GEOTHERM FILE ID: 0018001

NAME OF SAMPLE SOURCE... WELL ON PAPAGO INDIAN RESERVATION NEAR PAPAGO FARM
 WELL/SPRING NUMBER..... 19S-01E-05-8AC
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... PIMA
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... KOM VO 1162500
 TOWNSHIP-RANGE
 19S 001E 05
 B&M: GILA AND SALT RIVER
 COORDINATES
 LAT/LONG... 31-48.00 N 112-17.92 W
 UTM ZONE... 12
 NORTHING... 3518815.
 377061.

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1954/06/11
 TEMPERATURE (C)..... 47.0
 AMBIENT TEMP (C)..... 20.
 WELL DEPTH (M)..... 128.
 GRADIENT (C/KM)..... 211.
 OTHER SAMPLE INFORMATION.. PAPAGO WELL NUMBER IS UW-2
 WATER ANALYSIS
 SPECIFIC CONDUCTANCE..... 577.
 ALKALINITY..... 162.
 TOTAL DISSOLVED SOLIDS... 327.
 ANALYSIS IN PPM
 AG..... CO3..... N
 AL..... CR.....
 MG... 2.6

ISOLOPES (U/00L)

H..... 15. NA... SI02. 14.
 RA..... 116. S04.. 38.
 BE..... 0.2
 CA..... 9.1 162.
 CL..... 52.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... HEINDL AND COSNEK, 1961

RECORD 00226

 GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... HOT PUMPED WELL (EAST OF COOLIDGE)
 WELL/SPRING NUMBER..... 05S-07E-13-DAD

GEOTHERM FILE ID: 0018061

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... PINAL
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... COOLIDGE 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 41.1
 WATER ANALYSIS
 PH..... 8.57
 ALKALINITY..... 94.
 TOTAL DISSOLVED SOLIDS... 552.
 CHARGE IMBALANCE (% DIFF)... 0.4
 ANALYSIS IN PPM
 AG.....
 AL.....
 BA.....
 BE.....
 CA.....
 CD.....
 CL.....
 CO.....
 CR.....
 FE.....
 H.....
 HCO3.....
 H2S.....
 K.....
 MG.....
 NA.....
 NH.....
 NO3.....
 PO4... N
 SE OF NW SE
 86M: GILA AND SALT RIVER

COORDINATES

LAT/LONG... 32-59.30 N 111-34.50 W
 UTM ZONE... +12
 NORTHING... 3649949.
 446277.

TOWNSHIP-RANGE

05S 007E 13
 86M: GILA AND SALT RIVER

ISOTOPES (0/001)

REFERENCE AND IDENTIFICATION
 COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00227

 GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... HOT PUMPED WELL (NORTH OF ELEVEN MILE CORNER-2)
 WELL/SPRING NUMBER..... 06S-07E-13-ADD

GEOTHERM FILE ID: 0018066

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... PINAL
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... COOLIDGE 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 61.0
 WATER ANALYSIS
 AG.....
 AL.....
 BA.....
 BE.....
 CA.....
 CD.....
 CL.....
 CO.....
 CR.....
 FE.....
 H.....
 HCO3.....
 H2S.....
 K.....
 MG.....
 NA.....
 NH.....
 NO3.....
 PO4... N
 SE OF SE NE
 86M: GILA AND SALT RIVER

COORDINATES

LAT/LONG... 32-54.13 N 111-34.08 W
 UTM ZONE... +12
 NORTHING... 3640522.
 447005.

TOWNSHIP-RANGE

06S 007E 13
 86M: GILA AND SALT RIVER

PH.....	8.67	AS HCO3			
ALKALINITY.....	75.7				
TOTAL DISSOLVED SOLIDS.....	924.				
CHARGE IMBALANCE (% DIFF)....	4.2				
ANALYSIS IN PPM					
AG.....	L 0.06	CO3.....	N	LI.....	0.48
AL.....	L 1.0	CR.....		MG.....	0.8
AS.....	0.037				
AU.....	0.76	CU.....	L 0.1	MO.....	
H.....	0.2	F.....	5.4	NA.....	SE... 0.016
BA.....					412.2 SI02. 42.12
RE.....	11.0	FE(TOT).....	L 0.15	NB.....	S04... 301.6
CA.....		HC03.....	75.7	NO3...	
CA+MG.....		HG.....	0.0004		8.19
CD.....	358.8	H2S.....	L 0.1	P04... N	
CL.....					
CO.....		K.....	3.1	ZN... L 0.02	
QUALIFICATION FIELD..... NO3 EQUALS NO2 + NO3.					
REFERENCE AND IDENTIFICATION					
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY					
REFERENCE..... SWANBERG AND OTHERS, 1977					

GEOHEM SAMPLE FILE		RECORD 00228	
NAME OF SAMPLE SOURCE... HOT PUMPED WELL (NORTH OF ELEVEN MILE CORNER)		GEOTHERM FILE ID: 0018065	
WELL/SPRING NUMBER..... 06S-08E-18-CDD			
LOCALITY		COORDINATES	
COUNTRY.....	UNITED STATES	LAT/LONG...	32-53.67 N 111-33.50 W
STATE.....	ARIZONA	UTM ZONE...	+12
COUNTY.....	PINAL	NORTHING...	3639594.
GEOLOGIC PROVINCE..	04		447780.
MAP REFERENCE.....	COOLIDGE 1124000		
SAMPLE DESCRIPTION AND CONDITIONS			
TEMPERATURE (C).....	30.0		
WATER ANALYSIS			
PH.....	7.41		
ALKALINITY.....	252.6	AS HCO3	
TOTAL DISSOLVED SOLIDS.....	2952.		
CHARGE IMBALANCE (% DIFF)....	2.2		
ANALYSIS IN PPM			
AG.....		CO3.....	N
AL.....		CR.....	
H.....	1.36	MG...	50.9
FE.....		NA...	498.6
FE(TOT).....	0.53	SI02.	38.4
CA.....	359.3	NB...	504... 878.
HC03.....	252.6		
CD.....		P04...	0.03
CL.....	799.8		
CO.....		K.....	8.6
QUALIFICATION FIELD..... P04 CALCULATED FROM P.			
REFERENCE AND IDENTIFICATION			
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY			
REFERENCE..... SWANBERG AND OTHERS, 1977			

RECORD 00229

GEUTHERM FILE ID: 0018063

GEUTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... HOT PUMPED WELL (SOUTH OF COOLIDGE)

WELL/SPRING NUMBER... 055-08E-28-CDD

TOWNSHIP-RANGE

COUNTRY... UNITED STATES
STATE... ARIZONA
COUNTY... PINAL
GEOLOGIC PROVINCE... 04

MAP REFERENCE... COOLIDGE 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)... 56.8

WATER ANALYSIS

PH... 8.81

ALKALINITY... 67.1

TOTAL DISSOLVED SOLIDS... 744.

CHARGE IMBALANCE (% DIFF)... 0.2

ANALYSIS IN PPM

AG... N

CO3... 0.8

CR... 0.8

F... 7.35

FE(TOT)... L 0.15

CA... 67.1

H2S... 0.06

CL... 206.

CO... 2.0

K... 2.0

PO4 CALCULATED FROM P.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE... SWANBERG AND OTHERS, 1977

COORDINATES

LAT/LONG... 32-57.58 N 111-32.00 W
UTM ZONE... +12
NORTHING... 3646788.
Easting... 450154.

ISOTOPES (0/00)

SI02... 47.15
S04... 183.

RECORD 00230

GEUTHERM FILE ID: 0018062

GEUTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... HOT PUMPED WELL (SOUTH OF COOLIDGE)

WELL/SPRING NUMBER... 055-07E-36-ACD

TOWNSHIP-RANGE

COUNTRY... UNITED STATES
STATE... ARIZONA
COUNTY... PINAL
GEOLOGIC PROVINCE... 04

MAP REFERENCE... COOLIDGE 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)... 55.6

WATER ANALYSIS

PH... 8.59

ALKALINITY... 62.2

TOTAL DISSOLVED SOLIDS... 1172.

CHARGE IMBALANCE (% DIFF)... 1.5

ANALYSIS IN PPM

AG... N

CO3... 1.8

CR... 388.3

F... 4.35

FE(TOT)... L 0.15

CL... 206.

CO... 2.0

K... 2.0

PO4 CALCULATED FROM P.

COORDINATES

LAT/LONG... 32-56.73 N 111-35.40 W
UTM ZONE... +12
NORTHING... 3645153.
Easting... 444849.

ISOTOPES (0/00)

SI02... 39.64
S04... 229.6

CA..... 23.6 HC03..... 62.2 P04... 0.03
 CD.....
 CL..... 425.8
 CO..... K..... 3.9

QUALIFICATION FIELD..... P04 CALCULATED FROM P.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00231

GEOTHERM FILE ID: 0018064

ISOLINES (0.001)

COORDINATES

LAT/LONG... 32-50.2 N 111-35.0 W
 UTM ZONE... 12
 NORTHING... 3633140.
 445406.

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... HOT PUMPED WELL (1)

WELL/SPRING NUMBER... 05S-07E-01-C

ISOLINES (0.001)

COUNTRY... UNITED STATES

STATE... ARIZONA

COUNTY... PINAL

GEOLOGIC PROVINCE... 04

MAP REFERENCE... COOLIDGE 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 49.5

WATER ANALYSIS

PH..... 8.93

TOTAL DISSOLVED SOLIDS... 572.

CHARGE IMBALANCE (% DIFF)... 1.2

ANALYSIS IN PPM

AG.....

AL.....

AS..... 0.034

AU.....

B..... 0.34

HE.....

CA..... 8.8

CD..... 121.2

CO.....

QUALIFICATION FIELD..... N03 EQUALS N02 + N03. P04 CALCULATED FROM P.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... SWANBERG AND OTHERS, 1977

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... IRRIGATION WELL 1481

WELL/SPRING NUMBER... 05S-07E-01-C

COUNTRY... UNITED STATES

STATE... ARIZONA

COUNTY... PINAL

GEOLOGIC PROVINCE... 04

MAP REFERENCE... COOLIDGE 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 32.

RECORD 00232

GEOTHERM FILE ID: 0015703

COORDINATES

LAT/LONG... 32-45. N 111-42. W

WATER ANALYSIS

2.7

RADIATION ANALYSIS

ANALYST AND/OR AGENCY... U.S. EPA--ENVIRONMENTAL MONITORING AND SUPPORT LABORATORY, LAS VEGAS; MUNSANTO RES. CORP., MOUND LABORATORY, MIAMISBURG, OHIO.

RADIATION ANALYTICAL COMMENTS... PROCEDURES: EPA HANDBOOK OF RADIOCHEMICAL ANALYTICAL METHODS, 1975; MODIFICATION OF METHODS IN TALVITIE, 1971; STEAM SAMPLING: STOKER AND KRUGER, 1975.

RADIOLISOTOPES

Sample	0.084	0.056	0.036	0.027	0.38	0.31
TH-230....			L			
TH-232....			L			
U-234....	0.084	0.056		4.6	+/-	+/-
U-238....				3.6		

REFERENCE AND IDENTIFICATION

BLISS, JAMES D.
U.S. GEOLOGICAL SURVEY
O'CONNELL AND KAUFMAN, 1976

RECORD 00233

GEOTHERM FILE 101 0018003

GÉOTHERM_SAMPLE_FILE

NAME OF SAMPLE SOURCE... WELL (EAST OF PICHACHO MTS.)

WELL/SPRING NUMBER..... 08S-09E-07-DDC

NOTIFICATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
B&M: GILA AND SALT RIVER
08S 009E 07 SW OF SE 3

COUNTY..... PINAL

MAP REFERENCE..... RED ROCK 1:62500
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

DATE/collector..... 1966/08/25

WATER ANALYSIS

PH.....	8.06
SPECIFIC CONDUCTANCE.....	1.3
ALKALINITY.....	127.
CHARGE IMBALANCE (% DIFF)...	28.7

AS HCO3

THESE

SI02.	23.
S04..	270.
SR...	1.626

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... DUTT AND MCCREARY, 1970

RECORD 00234

GEOTHERM FILE ID: 0018007

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... WELL DOMESTIC
WELL/SPRING NUMBER..... 06S-06E-08-800
LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... PINAL
TOWNSHIP=RANGE
06S 006E 08 SE OF SE NW
B&M: GILA AND SALT RIVER

OTHER LOCALITY INFORMATION: LOCATION NOT VERIFIED WHEN UPDATED

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1966/07/27

TEMPERATURE (C)..... 46.1

WELL DEPTH (M)..... 914.

WATER ANALYSIS

PH..... 9.6

SPECIFIC CONDUCTANCE..... 0.7

CHARGE IMBALANCE (% DIFF).... 5.8

ANALYSIS IN PPM

AG.....	CO3.....	19.	LI....	0.005
AL.....	CR.....	0.007	MG....	N
AS.....	CS.....		MN....	N
AU.....	CU.....	0.009	NA....	148.
H.....	F.....	8.	NB....	22.
HE.....	FE(TQT).....	0.062	NH4....	130.
HI.....	GA.....		NI....	0.106
HR.....	GE.....		NO3....	3.
CA.....	HC03.....	59.	PB....	N
CA+MG.	HG.....			
CD.....				
CL.....	K.....	1.6		
CO.....				

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... DUTT AND MCCREARY, 1970

RECORD 00235

GEOTHERM FILE ID: 0018006

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... WELL IRRIGATION
WELL/SPRING NUMBER..... 06S-07E-13-DA4
LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... PINAL
TOWNSHIP=RANGE
06S 007E 13 NE OF NE SE
B&M: GILA AND SALT RIVER

MAP REFERENCE..... COOLIDGE 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1967/01/20

TEMPERATURE (C)..... 61.7

WELL DEPTH (M)..... 914.

WATER ANALYSIS

PH..... 9.1

SPECIFIC CONDUCTANCE..... 1700.

CHARGE IMBALANCE (% DIFF)... 4.1

ANALYSIS IN PPM

AG.....	CO3.....	7.	LI....	0.213
AL.....	CR.....	N	MG....	N
AS.....	CS.....		MN....	0.018
AU.....	CU.....	0.011	NA....	368.
H.....	F.....	4.	SI02..	38.
HE.....	FE(TOT)..	0.183	SO4... 190.	
HI.....	GA.....		SR....	0.187
HR.....	GE.....			
CA.....	HC03.....	93.	NI....	N
CA+MG..	HG.....		NO3... 4.	
CL.....			PB....	N
CO.....				
CO.....	K.....	2.7	ZN....	0.02

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DUTT AND MCCREARY, 1970

RECORD 00236

GEOTHERM FILE ID: 0018010

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... WELL IRRIGATION

WELL/SPRING NUMBER..... 03S-06E-17-8D

LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... PINAL

MAP REFERENCE..... GILA BUTTE 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1967/03/22

TEMPERATURE (C)..... 31.7

WATER ANALYSIS

PH..... 8.0

SPECIFIC CONDUCTANCE..... 1.4

ALKALINITY..... 117.

CHARGE IMBALANCE (% DIFF)... 29.5

ANALYSIS IN PPM

AG.....	CO3.....	N	LI....	0.164
AL.....	CR.....	0.005	MG....	6.
AS.....	CS.....	N	MN....	N
AU.....	CU.....		NA....	154.
H.....	F.....	2.2	SI02..	19.
HE.....	FE(TOT)..	0.05	SO4... 160.	
HI.....	GA.....		SR....	0.384
HR.....	GE.....			
CA.....	HC03.....	117.	NI....	N
CA+MG..	HG.....		NO3... 5.	
CL.....			PB....	N
CO.....				
CO.....	K.....	4.	ZN....	N

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DUTT AND MCCREARY, 1970

ISOTOPIES (0/001)

COORDINATES

ISOTOPIES (0/001)

RECORD 00237
GEOTHERM FILE ID: 0018009GEOTHERM SAMPLE FILE
LOCATION
COORDINATESNAME OF SAMPLE SOURCE... WELL IRRIGATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... PINAL
MAP REFERENCE..... STANFIELD 1:24000
OTHER LOCALITY INFORMATION: EXACT LOCATION NOT KNOWN.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1966/06/11
TEMPERATURE (C)..... 32.8
WELL DEPTH (M)..... 214.WATER ANALYSIS
PH..... 8.1
SPECIFIC CONDUCTANCE..... 0.8
ALKALINITY..... 137.
CHARGE IMBALANCE (% DIFF).... 0.3
ANALYSIS IN PPM
AG.....
AL.....
H..... 0.18
HE.....
CA..... 32.
CL..... 96.
CO.....
K..... 3.2OTHER ANALYTICAL DATA... TRACE ELEMENT DATA NOT AVAILABLE.
REFERENCE AND IDENTIFICATION
COMPILED BY..... GOODE, H.
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... DUTT AND MCCREARY, 1970

AS HCU3

ISOTOPES 007001

LI... N
MG... 4.
NA... 130.
NB...
NO3... 6.
SI02. N 126.
S04..RECORD 00238
GEOTHERM FILE ID: 0018016GEOTHERM SAMPLE FILE
LOCATION
COORDINATESNAME OF SAMPLE SOURCE... WELL IRRIGATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... PINAL
MAP REFERENCE..... GILA BUTTE 1:62500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1967/03/22
TEMPERATURE (C)..... 32.2
WELL DEPTH (M)..... 284.OTHER ANALYTICAL DATA... TRACE ELEMENT DATA NOT AVAILABLE.
REFERENCE AND IDENTIFICATION
COMPILED BY..... GOODE, H.
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... DUTT AND MCCREARY, 1970

AS HCU3

ISOTOPES 107001

LI... 0.05
MG... 7.
NA...
NB...
NO3...
SI02. N
S04..

AS..... 0.03
 AU.....
 H.....
 HE.....
 HI.....
 HR.....
 CA..... 28.
 CA+MG.....
 CD..... N
 CL..... 160.
 CO..... N
 K..... 4.3
 MN..... 0.014
 NA..... 92.
 NB.....
 NH.....
 NI..... N
 NO..... 1.
 PB..... N
 SI..... 18.
 SO..... 50.
 SR..... 0.901
 ZN..... N

REFERENCE AND IDENTIFICATION
 COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DUTT AND MCCREARY, 1970

RECORD 00239
 GEOTHERM FILE ID: 0018015

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... WELL IRRIGATION
 WELL/SPRING NUMBER..... 03S-06E-05-A
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... PINAL
 MAP REFERENCE..... GILA BUTTE 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1967/03/22
 TEMPERATURE (C)..... 30.6
 WELL DEPTH (M)..... 348.
 WATER ANALYSIS

COORDINATES

TOWNSHIP-RANGE
 03S 006E 05 NE
 B&M: GILA AND SALT RIVER

ANALYSIS IN PPM
 AG.....
 AL.....
 AS.....
 AU.....
 B..... 0.52
 RE.....
 RI.....
 HR.....
 CA..... 77.
 CA+MG.....
 CD..... N
 CL..... 368.
 CO..... 0.0160
 K..... 6.7
 LI..... 0.076
 MG..... 15.
 MN..... 0.005
 NA..... 192.
 NB.....
 NH.....
 NI..... N
 NO..... 6.
 PB..... N
 SI..... 24.
 SO..... 230.
 SR..... 2.997
 ZN..... 0.017

ISOTOPES 10/20/01

REFERENCE AND IDENTIFICATION
 COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DUTT AND MCCREARY, 1970

RECORD 00240

GEOTERM FILE ID: 0018014

GEOTHERM-SAMPLE-FILE

NAME OF SAMPLE SOURCE... WELL IRRIGATION
WELL/SPRING NUMBER..... 035-06E-05-BD

LOCATION	
COUNTRY.....	UNITED STATES
STATE.....	ARIZONA
TOWNSHIP=RANGE	
	03S 00E 05 SE OF NW
	B&M: GILA AND SALT RIVER

COUNTY..... PINAL
MAP REFERENCE..... GILA BUTTE 1:62500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1967/03/22

WATER ANALYSIS

PH.....	7.8
SPECIFIC CONDUCTANCE.....	0.8
ALKALINITY.....	102.62
CHARGE IMBALANCE (% DIFF)....	20.1

AG.....	CO3.....	N	LI....	0.039
AL.....	CR.....	0.006	MG....	6.
AS.....	CS.....		MN....	0.006
AU.....	CU.....	0.005		
H.....	F.....	0.9	NA....	97.
HE.....	FE(TQT)...	0.189	NB....	
HI.....	GA.....		NH4...	
HR.....	GE.....		NI....	N
CA.....	HCU3.....	98.	NO3...	2.
CA+Mg...	HG.....		PB....	N

SI02.	16.
S04..	54.
SR...	1.27

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... DUTT AND MCCREARY, 1970

RECORD 00241

GEUTHEHM FILE ID: 0018013

OTHER_SAMPLES

NAME OF SAMPLE SOURCE... WELL IRRIGATION
WELL/SPRING NUMBER..... 03S-06E-06-BA

LOCATION	
COUNTRY.....	UNITED STATES
STATE.....	ARIZONA
TOWNSHIP-RANGE	
U3S 00E 06	NE OF NW
B6M; GILA AND SALT RIVER	

COUNTY..... PINAL
MAP REFERENCE..... GILA BUTTE 1:62500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1967/03/22

STYLY VÁLKY

P I.....	7.8
SPECIFIC CONDUCTANCE.....	0.8

ALKALINITY..... 108. AS HCO3

CHARGE IMBALANCE (% DIFF).... 18.2

ANALYSIS IN PPM

AG..... CO3..... N 0.062
 AL..... CR..... 0.008
 AS..... CS..... N
 AU..... CU..... N
 H..... F..... 0.9
 HE..... FE(TOT)..... 0.095
 HI..... GA.....
 HR..... GE.....
 CA..... HCO3..... 108.
 CA+MG.....
 CD..... N
 CL..... 172.
 CO..... N K..... 4.9
 CU..... N

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.
 COMPILED AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DUTT AND MCCREARY, 1970

RECORD 00242

GEOTHERM FILE ID: 0018012

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... WELL IRRIGATION

WELL/SPRING NUMBER..... 03S-06E-06-88

LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... PINAL

MAP REFERENCE..... GILA BUTTE 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1967/03/22

TEMPERATURE (C)..... 30.6

WATER ANALYSIS

PH..... 7.9
 SPECIFIC CONDUCTANCE..... 1.0
 CHARGE IMBALANCE (% DIFF).... 12.2

ANALYSIS IN PPM

AG..... CO3..... 4. 0.062
 AL..... CR..... 0.0120
 AS..... CS..... N
 AU..... CU..... N
 H..... F..... 1.0
 HE..... FE(TOT)..... 0.034
 HI..... GA.....
 HR..... GE.....
 CA..... HCO3..... 117.
 CA+MG.....
 CD..... N
 CL..... 208.
 CO..... N K..... 4.8
 CU..... N

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.
 COMPILED AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DUTT AND MCCREARY, 1970

ISOIOPES 10/001

SI02. 24.
 S04. 70.
 SR. N

ZN. 0.011

COORDINATES

ISOIOPES 10/001

SI02. 23.
 S04. 78.
 SR. 0.963

ZN. N

RECORD 00243

GEOTHERM FILE ID: 0018011

COORDINATES

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... WELL IRRIGATION
WELL/SPRING NUMBER... 03S-06E-06-D
LOCATION
COUNTRY... UNITED STATES
STATE... ARIZONA
COUNTY... PINAL
MAP REFERENCE... GILA BUTTE 1162500
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1967/03/22
TEMPERATURE (C)... 29.4
WELL DEPTH (M)... 297.

WATER ANALYSIS

PH... 7.7
SPECIFIC CONDUCTANCE... 1.2
ALKALINITY... 122.
CHARGE IMBALANCE (% DIFF)... 3.2
ANALYSIS IN PPM

AG...	CO3...	N	LI...	0.059
AL...	CR...	0.008	MG...	14.
AS...	CS...	N	MN...	N
AU...	CU...	N	NA...	146.
B...	F...	0.9	SI02...	20.
HE...	FE(TQT)...	0.119	SO4...	62.
RI...	GA...	N	SR...	1.22
HR...	GE...	N	NI...	N
CA...	HC03...	122.	NO3...	1.
CA+MG...	HG...	N	PR...	N
CO...	N			
CL...	308.			
CO...	N			
CO...	K...	6.5		
ZN...	N			

REFERENCE AND IDENTIFICATION
COMPILED BY... GOODE, H.
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE... DUTT AND MCCREARY, 1970

RECORD 00244

GEOTHERM FILE ID: 0018008

COORDINATES

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... WELL IRRIGATION
WELL/SPRING NUMBER... 05S-07E-23-CD
LOCATION
COUNTRY... UNITED STATES
STATE... ARIZONA
COUNTY... PINAL
GEOLOGIC PROVINCE... 04
MAP REFERENCE... COOLIDGE 1:24000
OTHER LOCALITY INFORMATION: EXACT LOCATION NOT KNOWN.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)... 46.1
WELL DEPTH (M)... 427.

WATER ANALYSIS

PH... 9.1

GROUND LABORATORY, MIAMISBURG, OHIO.
 RADIATION ANALYTICAL COMMENTS... PROCEDURES: EPA HANDBOOK OF RADIOCHEMICAL ANALYTICAL METHODS, 1975; MODIFICATION OF
 METHODS IN IALVITIE, 1971; STEAM SAMPLING: STOKER AND KRUGER, 1975.

RADIOISOTOPES

K-40.....
 PR-210.....
 RA-226..... 0.084 +/- 0.056 +/- 0.16 +/- 0.12
 RA-228.....
 RN-222..... 930. +/- 53. +/- 1.0 +/- 0.12

REFERENCE AND IDENTIFICATION

COMPILED BY..... BLISS, JAMES D.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... O'CONNELL AND KAUFMAN, 1976

RECORD 00248

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... AGUA CALIENTE SPRING
 LOCATION
 TOWNSHIP-RANGE

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... SANTA CRUZ
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... MT. WRIGHTSON 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 32.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R
 COMPILER AFFILIATION... USGS
 REFERENCE..... BERRY AND OTHERS, 1980

COORDINATES

LAT/LONG... 31-41.7 N 110-57.8 W

RECORD 00249

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... MONKEY SPRING
 LOCATION
 TOWNSHIP-RANGE

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... SANTA CRUZ
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... SONOITA 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 28.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R
 COMPILER AFFILIATION... USGS
 REFERENCE..... BERRY AND OTHERS, 1980

COORDINATES

LAT/LONG... 31-38.2 N 110-42.2 W

RECORD 00250

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... ALKALAI SPRING
 LOCATION
 TOWNSHIP-RANGE

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... SANTA CRUZ
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... SONOITA 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 28.
 REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R
 COMPILER AFFILIATION... USGS
 REFERENCE..... BERRY AND OTHERS, 1980

COORDINATES

LAT/LONG... 33-59.53 N 112-22.18 W

STATE..... ARIZONA
 COUNTY..... YAVAPAI
 GEOLOGIC PROVINCE... 04
 MAP REFERENCE..... GOVERNORS PEAK 1124000
 OTHER LOCALITY INFORMATION: CASTLE HOT SPRINGS AREA IS LOCATED 70 KM NORTHWEST OF PHOENIX, ARI ZONA.
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 31.2
 PERTINENT LITHOLOGY..... LOW ANGLE SLUMP FAULT DISPLACES AN ALLOCHTHONOUS BLOCK OF PRECAMBRIAN GRANITE ON TOP OF
 A SEQUENCE OF TERTIARY VOLCANIC ROCKS. THE ALL OCHTHONOUS BLOCK IS STRONGLY BRECCIATED AND JOINTED.

WATER ANALYSIS
 PH..... 7.85
 TOTAL DISSOLVED SOLIDS... R 730.

ISOLOPES 10/001

AG.....	CO3.....	LI...	0.42
AL.....	CR.....	MG...	0.23
H.....	F.....	NA...	214.67
HE.....	FE(TOT).	NB...	70.78
CA.....			504..
CL.....			209.

CO..... K..... 6.32
 OTHER ANALYTICAL DATA... GEOTHERMOMETRY (DEGREES C): SI02 (QUARTZ-ADIABATIC) 117.10; SI02 (QUARTZ-CONDUCTIVE) 118.76;
 SI02 (CHALCEDONY) 90.22; NA-K-CA (B=1/3) 127.50; NA-K-CA (B=4/3) 97.95; NA-K 85.09.

REFERENCE AND IDENTIFICATION
 COMPILED BY..... PETERS, SANDRA K.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SATKIN AND OTHERS, 1980

RECORD 00251

GEOTHERM FILE 10: 0000195

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... CASA ROSA SPRING
 GRA..... CASTLE HOT SPRINGS

WELL/SPRING NUMBER..... 07N-01W-014-AC

TOWNSHIP-RANGE

07N 001W 14 SW OF NE

CORRINATES
 LAT/LONG... 33-57.08 N 112-19.26 W

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... YAVAPAI

MAP REFERENCE..... GOVERNORS PEAK, ARIZ. 1124000

OTHER LOCALITY INFORMATION: CASTLE HOT SPRINGS AREA IS LOCATED 70 KM NORTHWEST OF PHOENIX, ARI ZONA.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 18.9

PERTINENT LITHOLOGY..... LOW ANGLE SLUMP FAULT DISPLACES AN ALLOCHTHONOUS BLOCK OF PRECAMBRIAN GRANITE ON TOP OF
 A SEQUENCE OF TERTIARY VOLCANIC ROCKS. THE ALL OCHTHONOUS BLOCK IS STRONGLY BRECCIATED AND JOINTED.

WATER ANALYSIS

PH..... 7.7
 TOTAL DISSOLVED SOLIDS... R 1625.

ISOLOPES 10/001

AG.....	CO3.....	LI...	1.1
AL.....	CR.....	MG...	1.3
H.....	F.....	NA...	540.
HE.....	FE(TOT).	NB...	37.
CA.....			504..
CL.....			385.

CO..... K..... 14.
 OTHER ANALYTICAL DATA... GEOTHERMOMETRY (DEGREES C): SI02 (QUARTZ, ADIABATIC) 90.62; SI02 (QUARTZ, CONDUCTIVE) 88.06;
 SI02 (CHALCEDONY) 57.20; NA-K-CA(1/3) 119.30; NA-K-CA(4/3) 84.58; NA-K 76.42.

REFERENCE AND IDENTIFICATION

COMPILED BY..... PETERS, SANDRA K.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SATKIN AND OTHERS, 1980

RECORD 00252

GEOHEM SAMPLE FILE

GEOHEM FILE ID: 0000194

NAME OF SAMPLE SOURCE... CASTLE HOT SPRINGS
 KGRA..... CASTLE HOT SPRINGS

WELL/SPRING NUMBER..... 08N-01W-034-CC

LOCATIONTOWNSHIP-RANGE

COUNTRY..... UNITED STATES 08N 001W 34 SW OF SW

STATE..... ARIZONA

COUNTY..... YAVAPAI

MAP REFERENCE..... GOVERNORS PEAK, ARIZ. 1:24000

OTHER LOCALITY INFORMATION: CASTLE HOT SPRINGS AREA IS LOCATED 70 KM NORTHWEST OF PHOENIX, ARI ZONA.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1979/11/27

DISCHARGE..... 1300. L/MIN

PERTINENT LITHOLOGY..... LOW ANGLE SLUMP FAULT DISPLACES AN ALLOCHTHONOUS BLOCK OF PRECAMBRIAN GRANITE ON TOP OF A SEQUENCE OF TERTIARY VOLCANIC ROCKS. THE ALLOCHTHONOUS BLOCK IS STRONGLY BRECCIATED AND JOINTED.

WATER ANALYSIS

PH..... 7.85

TOTAL DISSOLVED SOLIDS... R 730.

ANALYSIS IN MG/L

AG.....

AL.....

B.....

RE.....

CA..... 32.

CL..... 145.

CO.....

K.....

LI.....

MG.....

F.....

FE(TOT).....

NA.....

NB.....

O.....

P.....

S.....

SI.....

SO.....

T.....

V.....

W.....

X.....

Y.....

Z.....

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ISOTOPES (000001)

LI..... 0.34

MG..... 2.3

F..... 208.

FE(TOT).....

NA.....

NB.....

O.....

P.....

S.....

SI.....

SO.....

T.....

V.....

W.....

X.....

Y.....

Z.....

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DISCHARGE..... E 1200. L/MIN

OTHER SAMPLE INFORMATION.. ACTIVE RESORT

WATER ANALYSIS

PH..... 7.5

RECORD 00253

GEOHEM SAMPLE FILE

GEOHEM FILE ID: 0002951

NAME OF SAMPLE SOURCE... CASTLE HOT SPRINGS

WELL/SPRING NUMBER..... 08N-01W-34-CCB

LOCATIONTOWNSHIP-RANGE

COUNTRY..... UNITED STATES 08N 001W 34 NW OF SW SW

STATE..... ARIZONA

COUNTY..... YAVAPAI

GEOLOGIC PROVINCE.. 04

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 46.0

DISCHARGE..... E 1200. L/MIN

OTHER SAMPLE INFORMATION.. ACTIVE RESORT

WATER ANALYSIS

PH..... 7.5

COORDINATES

LAT/LONG... 34-59.13 N 112-21.5 W

ALCALINITY..... 125. AS HCO3
TOTAL DISSOLVED SOLIDS..... 789.
CHARGE IMBALANCE (% DIFF).... 1.0
ANALYSIS IN MG/L
AG..... CO3.....
AL..... CR.....
AS..... CS..... L 0.1
AU..... CU..... L 0.01
B..... F..... 8.4
RE..... FE(TOT). L 0.02
RR..... GE.....
CA..... HCO3..... 125.
CAN..... HG..... L 0.0001
CL..... K..... 4.7
CO.....
REFERENCE AND IDENTIFICATION
COMPILED BY..... TESHIN, VICTOR
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... MARINER AND OTHERS, 1977A

ISOIOPES (0/001)
DEL D OF WATER..... -83.2
DEL O (18) OF WATER... -11.38

RECORD 00254
GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... CASTLE HOT SPRINGS
LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... YAVAPAI
MAP REFERENCE..... GOVERNORS PEAK 1:24000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1974/11/22
TEMPERATURE (C)..... 46.
OTHER SAMPLE INFORMATION.. WATER USED IN A SPA.
RADIATION ANALYSIS
ANALYST AND/OR AGENCY... U.S. EPA--ENVIRONMENTAL MONITORING AND SUPPORT LABORATORY, LAS VEGAS; MONSANTO RES. CORP.,
MOUND LABORATORY, MIAMISBURG, OHIO.
RADIATION ANALYTICAL COMMENTS... PROCEDURES: EPA HANDBOOK OF RADIOCHEMICAL ANALYTICAL METHODS, 1975; MODIFICATION OF
METHODS IN TALVITIE, 1971; STEAM SAMPLING: STUKER AND KRUGER, 1975.
RADIATION ISOTOPES
K-40..... TH-230.... L 0.017
PR-210..... TH-232.... L 0.0062
RA-226.... U-234..... 0.99 +/- 0.12
RA-228.... U-238..... 0.42 +/- 0.072

COORDINATES
LAT/LONG... 33-59.14 N 112-21.59 W

GEOTHERM FILE ID: 0015736

REFERENCE AND IDENTIFICATION
COMPILED BY..... BLISS, JAMES D.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... O'CONNELL AND KAUFMAN, 1976

RECORD 00255
GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... CASTLE HOT SPRINGS
LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
WELL/SPRING NUMBER..... 09N-01W-34-CC
TOWNSHIP-RANGE
URN 001W 34
B&M: GILA AND SALT RIVER

COORDINATES
LAT/LONG... 34-59.13 N 112-21.58 W
UTM ZONE... 12

GEOTHERM FILE ID: 0018902

NORTHING... 3871844.
375714.

COUNTY..... YAVAPAI
GEOLOGIC PROVINCE...
MAP REFERENCE..... GOVERNOR'S PEAK 1:24000
SAMPLE DESCRIPTION AND CONDITIONS
SAMPLE NUMBER..... AZ83
TEMPERATURE (C)..... 45.5
WATER ANALYSIS

PH..... 7.86
TOTAL DISSOLVED SOLIDS... 760.
CHARGE IMBALANCE (% DIFF)... 1.2

ANALYSIS IN PPM

AG..... L 0.06	CO3..... N	LI... 0.35	SE... 0.007
AL..... L 1.0	CR.....	MG... 2.3	SI02. 63.
AS..... 0.024	CU..... L 0.1	MO... 202.	
AU..... 0.88	F..... 8.3	NA... 195.	
HA..... L 0.2	FE(TOT). L 0.15	NH4... L 0.05	SR... 0.1
RE.....	GA.....	NO3... Q 0.09	
HI..... 29.	HC03..... 135.	PO4... Q 0.03	
CA+MG.....	HG..... 0.0003		
CD..... 144.	H2S.....		
CL.....	K..... 6.6		
CO.....	ZN... L 0.02		

QUALIFICATION FIELD..... NO3 EQUALS NO2 + NO3. P04 CALCULATED FROM P.
REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00256

GEOTHERM FILE 101 0000190

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... CHUCK'S WELL
KGRA..... CASTLE HOT SPRINGS
WELL/SPRING NUMBER..... 07N-01W-03-CC

LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... YAVAPAI

MAP REFERENCE..... GOVERNOR'S PEAK 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 22.3

PERTINENT LITHOLOGY..... LOW ANGLE SLUMP FAULT DISPLACES AN ALLOCHTHONOUS BLOCK OF PRECAMBRIAN GRANITE ON TOP OF

A SEQUENCE OF TERTIARY VOLCANIC ROCKS. THE ALL OCHTHONOUS BLOCK IS STRONGLY BRECCIATED AND JOINTED.

WATER ANALYSIS

PH..... 7.45
TOTAL DISSOLVED SOLIDS... R 480.

ANALYSIS IN PPM

AG.....	CO3.....	LI... 0.16	SI02. 51.03
AL.....	CR.....	MG... 19.29	S04... 170.
HA.....	F..... 3.83	NA... 136.89	
RE.....	FE(TOT).	NH... 504..	
CA..... 64.47			
CL..... 81.			
CO.....	K..... 3.83		

ISOLOPES 102001

COORDINATES

LAT/LONG... 33-58.25 N 112-21.40 W

OTHER ANALYTICAL DATA... GEOTHERMOMETRY (DEGREES C): SI02 (QUARTZ-ADIABATIC) 103.33; SI02 (QUARTZ-CONDUCTIVE) 102.76;
SI02 (CHALCEDONY) 72.91; NA-K-CA (B=1/3) 109.88; NA-K-CA (B=4/3) 48.01; NA-K 81.80.

QUALIFICATION FIELD... TOTAL DISSOLVED SOLIDS RANGE 380.-580. PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... PETERS, SANDRA K.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... SATKIN AND OTHERS, 1980

RECORD 00257

GEOTERM_SAMPLE_FILE

NAME OF SAMPLE SOURCE... DODD WELL
KGRA..... CASTLE HOT SPRINGS

WELL/SPRING NUMBER..... 08N-01W-033-B8

LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... YAVAPAI

MAP REFERENCE..... GARFAS MTN. 1124000

OTHER LOCALITY INFORMATION: CASTLE HOT SPRINGS AREA IS LOCATED 70 KM NORTHWEST OF PHOENIX, AZI ZONA.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 26.3

PERTINENT LITHOLOGY..... LOW ANGLE SLUMP FAULT DISPLACES AN ALLOCHTHONOUS BLOCK OF PRECAMBRIAN GRANITE ON TOP OF

A SEQUENCE OF TERTIARY VOLCANIC ROCKS. THE ALL OCHTHONOUS BLOCK IS STRONGLY BRECCIATED AND JOINTED.

WATER ANALYSIS

PH..... 8.0
TOTAL DISSOLVED SOLIDS... R 730.

ANALYSIS IN PPM

AG.....	CO3.....	LI...	0.49
AL.....	CR.....	MG...	0.43
R.....	F.....	NA...	239.26
RE.....	FE(TOT).	NH...	62.69
CA.....			504..
CL.....			228.

ISOTOPIES (0/001

CO..... K..... 7.29

OTHER ANALYTICAL DATA... GEOTHERMOMETRY (DEGREES C): SI02 (QUARTZ-ADIABATIC) 111.89; SI02 (QUARTZ-CONDUCTIVE) 112.67;
SI02 (CHALCEDONY) 83.60; NA-K-CA (B=1/3) 127.05; NA-K-CA (B=4/3) 92.73; NA-K 87.34.

REFERENCE AND IDENTIFICATION

COMPILED BY..... PETERS, SANDRA K.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... SATKIN AND OTHERS, 1980

RECORD 00258

GEOTERM_SAMPLE_FILE

NAME OF SAMPLE SOURCE... DRIPPING SPRING
KGRA..... CASTLE HOT SPRINGS

WELL/SPRING NUMBER..... 07N-01W-14-BAA

LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... YAVAPAI

MAP REFERENCE..... GOVERNORS PEAK 1124000

OTHER LOCALITY INFORMATION: CASTLE HOT SPRINGS AREA IS LOCATED 70 KM NORTHWEST OF PHOENIX, AZI ZONA.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 24.6

COORDINATES

LAT/LONG... 33-57.28 N 112-20.06 W

GEOTERM FILE ID: 0000197

PERTINENT LITHOLOGY..... LOW ANGLE SLUMP FAULT DISPLACES AN ALLOCHTHONOUS BLOCK OF PRECAMBRIAN GRANITE ON TOP OF
A SEQUENCE OF TERTIARY VOLCANIC ROCKS. THE ALLOCHTHONOUS BLOCK IS STRONGLY BRECCIATED AND JOINTED.

WATER ANALYSIS

PH..... 7.25
TOTAL DISSOLVED SOLIDS... R 1625.

ANALYSIS IN PPM

AG.....	CO3.....	LI....	1.05
AL.....	CR.....	MG....	7.01
HA.....	F.....	NA....	494.52
HE.....	FE(TOT)..	NO....	30.50
CA.....			372.
CL.....	137.90		
CO.....	521.		

K..... 13.28

OTHER ANALYTICAL DATA... GEOTHERMOMETRY (DEGREES C): SI02 (QUARTZ-ADIABATIC) 83.65; SI02 (QUARTZ-CONDUCTIVE) 80.09;
SI02 (CHALCEDONY) 48.78; NA-K-CA (B=1/3) 120.22; NA-K 79.20.

QUALIFICATION FIELD..... TOTAL DISSOLVED SOLIDS RANGE 1600.-1650. PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... PETERS, SANDRA K.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... SATKIN AND OTHERS, 1980

RECORD 00259

GEOTHERM-SAMPLE-FILE

NAME OF SAMPLE SOURCE... HENDERSON RANCH SPRING

KGRA..... CASTLE HOT SPRINGS

WELL/SPRING NUMBER..... 08N-01W-33-BAD

LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... YAVAPAI

MAP REFERENCE..... GARFAS MTN. 1124000

OTHER LOCALITY INFORMATION: CASTLE HOT SPRINGS AREA IS LOCATED 70 KM NORTHWEST OF PHOENIX, ARI ZONA.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 29.2

PERTINENT LITHOLOGY..... LOW ANGLE SLUMP FAULT DISPLACES AN ALLOCHTHONOUS BLOCK OF PRECAMBRIAN GRANITE ON TOP OF
A SEQUENCE OF TERTIARY VOLCANIC ROCKS. THE ALLOCHTHONOUS BLOCK IS STRONGLY BRECCIATED AND JOINTED.

WATER ANALYSIS

PH..... 7.7
TOTAL DISSOLVED SOLIDS... R 730.

ANALYSIS IN PPM

AG.....	CO3.....	LI....	0.55
AL.....	CR.....	MG....	2.23
HA.....	F.....	NA....	234.47
HE.....	FE(TOT)..	NO....	60.42
CA.....	39.72		299.
CL.....	150.		

K..... 7.31

OTHER ANALYTICAL DATA... GEOTHERMOMETRY (DEGREES C): SI02 (QUARTZ-ADIABATIC) 110.34; SI02 (QUARTZ-CONDUCTIVE) 110.85;
SI02 (CHALCEDONY) 81.63; NA-K-CA (B=1/3) 124.68; NA-K-CA (B=4/3) 82.61; NA-K 88.86.

QUALIFICATION FIELD..... TOTAL DISSOLVED SOLIDS RANGE 640.-820. PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... PETERS, SANDRA K.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... SATKIN AND OTHERS, 1980

GEOTHERM FILE ID: 0000192

COORDINATES

LAT/LONG... 33-59.73 N 112-22.28 W

ISOTOPES (U/200L)

RECORD 00260
 GEOTHERM FILE 10: 0000189

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... LAYTON SEEP
 KGRA..... CASTLE HOT SPRINGS
 WELL/SPRING NUMBER..... 07N-02W-01-BCB
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... YAVAPAI
 MAP REFERENCE..... GOVERNORS PEAK 1:24000
 OTHER LOCALITY INFORMATION: CASTLE HOT SPRINGS AREA IS LOCATED 70 KM NORTHWEST OF PHOENIX, ARI ZONA.
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 20.6
 PERTINENT LITHOLOGY..... LOW ANGLE SLUMP FAULT DISPLACES AN ALLOCHTHONOUS BLOCK OF PRECAMBRIAN GRANITE ON TOP OF
 A SEQUENCE OF TERTIARY VOLCANIC ROCKS. THE ALLOCHTHONOUS BLOCK IS STRONGLY BRECCIATED AND JOINTED.
 WATER ANALYSIS
 PH..... 8.0
 TOTAL DISSOLVED SOLIDS... R 480.

ISOTOPE 10/001

AG.....	CO3.....	LI....	0.06
AL.....	CR.....	MG....	14.08
H.....	F.....	NA....	14.08
HE.....	FE(TOT)...	NB....	
CA.....	88.87	SI02..	39.11
CL.....	11.3	S04...	8.6
CO.....			

OTHER ANALYTICAL DATA... GEOTHERMOMETRY (DEGREES C): SI02 (QUARTZ-ADIABATIC) 92.92; SI02 (QUARTZ-CONDUCTIVE) 90.69;
 SI02 (CHALCEDONY) 60.00; NA-K-CA (B=1/3) 132.28; NA-K-CA (B=4/3) 05.44; NA-K 193.76.
 QUALIFICATION FIELD..... TOTAL DISSOLVED SOLIDS RANGE 380.-580. PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... PETERS, SANDRA K.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SATKIN AND OTHERS, 1980

RECORD 00261
 GEOTHERM FILE 10: 0000196

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... MENDOTO SPRING
 KGRA..... CASTLE HOT SPRINGS
 WELL/SPRING NUMBER..... 07N-01W-14-8BC
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... YAVAPAI
 MAP REFERENCE..... GOVERNORS PEAK 1:24000
 OTHER LOCALITY INFORMATION: CASTLE HOT SPRINGS AREA IS LOCATED 70 KM NORTHWEST OF PHOENIX, ARI ZONA.
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 21.8
 PERTINENT LITHOLOGY..... LOW ANGLE SLUMP FAULT DISPLACES AN ALLOCHTHONOUS BLOCK OF PRECAMBRIAN GRANITE ON TOP OF
 A SEQUENCE OF TERTIARY VOLCANIC ROCKS. THE ALLOCHTHONOUS BLOCK IS STRONGLY BRECCIATED AND JOINTED.
 WATER ANALYSIS
 PH..... 7.55
 TOTAL DISSOLVED SOLIDS... R 480.

ISOTOPE 10/001

AG.....
AL.....
H.....
HE.....
CA.....
CL.....
CO.....

CO3.....
CR.....
F.....
FE(TOT).....

LI.....
MG.....
NA.....
NB.....

0.04
16.37
25.37

0.45

75.55
23.7

SI02.....
S04.....

K..... 1.7

OTHER ANALYTICAL DATA... GEOTHERMOMETRY (DEGREES C): SI02 (QUARTZ-ADIABATIC) 119.95; SI02 (QUARTZ-CONDUCTIVE) 122.11;
ST02 (CHALCEDONY) 93.88; NA-K-CA (B=1/3) 120.60; NA-K 148.08.

QUALIFICATION FIELD..... TOTAL DISSOLVED SOLIDS RANGE 380.-580. PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... PETERS, SANDRA K.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... SATKIN AND OTHERS, 1980

RECORD 00262

GEOTHERM FILE 10: 0000187

GEOTHERM_SAMPLE_FILE

NAME OF SAMPLE SOURCE... MESQUITE DRIP
KGRA..... CASTLE HOT SPRINGS
WELL/SPRING NUMBER..... 07N-01W-033-80

LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... YAVAPAI

MAP REFERENCE..... GOVERNORS PEAK 1:24000
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 23.6

PERTINENT LITHOLOGY..... LOW ANGLE SLUMP FAULT DISPLACES AN ALLOCHTHONOUS BLOCK OF PRECAMBRIAN GRANITE ON TOP OF
A SEQUENCE OF TERTIARY VOLCANIC ROCKS. THE ALL OCHTHONOUS BLOCK IS STRONGLY BRECCIATED AND JOINTED.

WATER ANALYSIS

PH..... 7.90
TOTAL DISSOLVED SOLIDS... R 730.

ANALYSIS IN PPM

AG.....
AL.....
H.....
HE.....
CA.....
CL.....

CO3.....
CR.....
F.....
FE(TOT).....

LI.....
MG.....
NA.....
NB.....

0.54
0.48
253.88

12.54

71.39
228.

SI02.....
S04.....

K..... 7.38

OTHER ANALYTICAL DATA... GEOTHERMOMETRY (DEGREES C): SI02 (QUARTZ-ADIABATIC) 117.47; SI02 (QUARTZ-CONDUCTIVE) 119.19;
ST02 (CHALCEDONY) 90.70; NA-K-CA (B=4/3) 103.32; NA-K-CA (B=1/3) 128.6; NA-K 84.26.

QUALIFICATION FIELD..... TOTAL DISSOLVED SOLIDS RANGE 380.-580. PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... PETERS, SANDRA K.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... SATKIN AND OTHERS, 1980

RECORD 00263

GEOTHERM FILE 10: 0000212

GEOTHERM_SAMPLE_FILE

NAME OF SAMPLE SOURCE... TROUT CREEK SPRING
LOCATION

COUNTRY..... UNITED STATES

COORDINATES

LAT/LONG... 35-02.4 N 113-09.6 W

B&M: GILA AND SALT RIVER

STATE..... ARIZONA
 COUNTY..... YAVAPAI
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... WILLIAMS 1:250000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1978/08
 TEMPERATURE (C)..... 27.
 DISCHARGE..... 12.
 WATER ANALYSIS
 DATE/ANALYST..... L/MIN
 PH..... 6.0
 CHARGE IMBALANCE (% DIFF).... 1.4
 ANALYSIS IN MG/L
 AL..... CR..... MG... 15.
 B..... 0.25 F..... 0.34 NA... 13.
 HE..... FE(TOT)..... NB... 7.
 CA..... 25. HCO3..... 164.
 CL..... 12.
 CO..... K..... 3.91
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R. H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GOFF, 1979

ISOLOPES 10/001

RECORD 00264

GEOTHERM FILE ID: 0001482

COORDINATES
 LAT/LONG... 34-04.6 N 111-42.5 W

TOWNSHIP-RANGE

GEOTHERM SAMPLE-FILE
 NAME OF SAMPLE SOURCE... UNNAMED SPRING

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... YAVAPAI
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... CHALK MOUNTAIN 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 37.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R
 COMPILER AFFILIATION... USGS
 REFERENCE..... BERRY AND OTHERS, 1980

RECORD 00265

GEOTHERM FILE ID: 0002950

COORDINATES
 LAT/LONG... 34-59.13 N 111-21.5 W
 UTM ZONE... 12
 NORTHING... 3536482.
 309390.

TOWNSHIP-RANGE

GEOTHERM SAMPLE-FILE
 NAME OF SAMPLE SOURCE... VERDE HOT SPRINGS

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... YAVAPAI
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... CHALK MOUNTAIN 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 36.0
 DISCHARGE..... 200. L/MIN
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R
 COMPILER AFFILIATION... USGS
 REFERENCE..... BERRY AND OTHERS, 1980

B&M: GILA AND SALT RIVER

STATE..... ARIZONA
 COUNTY..... YAVAPAI
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... WILLIAMS 1:250000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1978/08
 TEMPERATURE (C)..... 27.
 DISCHARGE..... 12.
 WATER ANALYSIS
 DATE/ANALYST..... L/MIN
 PH..... 6.0
 CHARGE IMBALANCE (% DIFF).... 1.4
 ANALYSIS IN MG/L
 AL..... CR..... MG... 15.
 B..... 0.25 F..... 0.34 NA... 13.
 HE..... FE(TOT)..... NB... 7.
 CA..... 25. HCO3..... 164.
 CL..... 12.
 CO..... K..... 3.91
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R. H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GOFF, 1979

OTHER SAMPLE INFORMATION.. LOCATION NOT VERIFIED WHEN UPDATED.

WATER ANALYSIS

P4.....		6.5		AS HC03	
ALKAL INITY.....	1570.				
TOTAL DISSOLVED SOLIDS.....	3931.				
CHARGE I-BALANCE (% DIFF)...	3.6				
ANALYSIS IN MG/L					
AG.....	CO3.....				
AL.....	CR.....				
AS.....	CS.....	L 0.1			
AU.....	CU.....	0.01			
BA.....	FE.....	1.4			
BE.....	FE(TOT).....	0.02			
BR.....	GE.....				
CA.....	HC03.....	1570.			
CA+MG.....	MG.....	0.0002			
CL.....	K.....	35.			
CO.....					
GAS ANALYSIS					
ANALYSIS IN VOLUME %					
CH4.....	L 0.1				
C2H6.....					
CO2.....	73.				
REFERENCE AND IDENTIFICATION					
COMPILED BY..... TESHIN, VICTOR					
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY					
REFERENCE..... MARINER AND OTHERS, 1977A					

GEOOTHERM-SAMPLE-FILE		NAME OF SAMPLE SOURCE		VERDE HOT SPRINGS		TOWNSHIP-RANGE		COORDINATES		ISOTOPE	
LOCATION		COUNTRY		STATE		COUNTY		GEOLOGIC PROVINCE		MAP REFERENCE	
UNITED STATES		ARIZONA		YAVAPAI		GEOLOGIC PROVINCE		VERDE HOT SPRINGS		1:24000	
TIN 006E 03		B&M: GILA AND SALT RIVER		LAT/LONG		34-21.32 N 111-42.53 W		UTM ZONE		412	
NORTHING		3801550		Easting		434858		ISOTOPE		10/2001	
TEMPERATURE (C)		40.0		ALKALINITY		6.99		TOTAL DISSOLVED SOLIDS		1388.1	
CHARGE IMBALANCE (% DIFF)		2.3		ANALYSIS IN PPM		AG		L 0.06		N	
AL		L 1.0		CR		L 1.33		MG		39.5	
AS		0.051		CU		L 0.1		MU		0.024	
H		0.44		F		1.52		NA		933.8	
HA		0.29		FE(TOT)		0.78		NH		550.4	
HI		103.6		GA		1388.1		NH4		3.19	
CA		0.0003		HCO3		0.31		NO3		504.4	
CA+MG		0.0003		H2S		0.0003		PO4		0.15	
CD		528.9		CL							

CO..... K..... 40.3 ZN.... L 0.02
 QUALIFICATION FIELD..... NO3 EQUALS NO2 + NO3. P04 CALCULATED FROM P.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00267

 GEOTHERM_SAMPLE_FILE GEOTHERM FILE ID: 0018176

NAME OF SAMPLE SOURCE... WELL AT VERDE HOT SPRINGS
 WELL/SPRING NUMBER..... 11N-06E-03-B
 LOCATION

TOWNSHIP-RANGE

COUNTRY..... UNITED STATES 11N 006E 03 NW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... YAVAPAI

MAP REFERENCE..... VERDE HOT SPRING 1124000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1951/12/10

TEMPERATURE (C)..... 39.4

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 4660.

ALKALINITY..... AS HCO3 1560.

TOTAL DISSOLVED SOLIDS... 3100.

ANALYSIS IN PPM

AL.....	CR.....	MG...	45.
R.....	F.....	NA...	SI02. 60.
RA.....	FE+3...	NA+K.	996.
RE.....	FE(TOT).	NR...	SI04.. 566.
CA.....	HCO3....	NO3..	0.3
CL.....			

ISOTOPES (00/001)

OTHER ANALYTICAL DATA... CAC03=474.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... FETH AND HEM, 1963

RECORD 00268

 GEOTHERM_SAMPLE_FILE GEOTHERM FILE ID: 0000191

NAME OF SAMPLE SOURCE... WINDMILL WELL

WELL/SPRING NUMBER..... CASTLE HOT SPRINGS

LOCATION

COUNTRY..... UNITED STATES 07N 001W 03 NE OF SW SW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... YAVAPAI

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 33-58.25 N 112-21.40 W

MAP REFERENCE..... GOVERNORS PEAK 1124000

OTHER LOCALITY INFORMATION: CASTLE HOT SPRINGS AREA IS LOCATED 70 KM NORTHWEST OF PHOENIX, AZI ZONA.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 20.5

PERTINENT LITHOLOGY..... LOW ANGLE SLUMP FAULT DISPLACES AN ALLOCHTHONOUS BLOCK OF PRECAMBRIAN GRANITE ON TOP OF

A SEQUENCE OF TERTIARY VOLCANIC ROCKS. THE ALL UCHTHONOUS BLOCK IS STRONGLY BRECCIATED AND JOINTED.

WATER ANALYSIS

PH..... 7.55

TOTAL DISSOLVED SOLIDS... R 480.

ANALYSIS IN PPM

ISOTOPES (00/001)

AG..... CO3..... LI.... 0.11
 AL..... CR..... MG.... 22.26
 H..... F..... 2.11 93.54
 HE..... FE(TOT).. S102. 42.22
 CA..... 50+20 NB.... 122.
 CL..... 50.
 CO..... K..... 3.45
 OTHER ANALYTICAL DATA... GEOTHERMOMETRY (DEGREES C): S102 (QUARTZ-ADIABATIC) 95.87; S102 (QUARTZ-CONDUCTIVE) 94.08;
 S102 (CHALCEDONY) 63.61; NA-K-CA (B=1/3) 115.18; NA-K-CA (B=4/3) 40.37; NA-K 100.4.
 QUALIFICATION FIELD..... TOTAL DISSOLVED SOLIDS RANGE 380.-580. PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... PETERS, SANDRA K.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SATKIN AND OTHERS, 1980

RECORD 00269

GEOTHERM FILE ID: 0015705

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... CITRUS VALLEY DEVELOPMENT IRRIGATION WELL

TOWNSHIP-RANGE

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... YUMA

MAP REFERENCE..... AJO 1:250000
 OTHER LOCALITY INFORMATION: IN OR ADJACENT TO THE TOWN OF TACNA.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1974/11/21

TEMPERATURE (C)..... 39.
 OTHER SAMPLE INFORMATION... WATER USED IN IRRIGATION.

RADIATION ANALYSIS
 ANALYST AND/OR AGENCY... U.S. EPA--ENVIRONMENTAL MONITORING AND SUPPORT LABORATORY, LAS VEGAS; MONSANTO RES. CORP.,
 MOUND LABORATORY, MIAMISBURG, OHIO.

RADIATION ANALYTICAL COMMENTS... PROCEDURES: EPA HANDBOOK OF RADIOCHEMICAL ANALYTICAL METHODS, 1975; MODIFICATION OF
 METHODS IN TALVITIE, 1971; STEAM SAMPLING: STOKER AND KRUGER, 1975.

RADIOISOTOPES

K-40..... TH-230.... L 0.035
 PR-210..... TH-232.... L 0.015
 RA-226.... 0.66 +/- 0.13 U-234.... 0.23 +/- 0.056
 RA-228.... U-238..... 0.14 +/- 0.044
 RN-222.... 1100. +/- 53.

REFERENCE AND IDENTIFICATION

COMPILED BY..... BLISS, JAMES D.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... O'CONNELL AND KAUFMAN, 1976

RECORD 00270

GEOTHERM FILE ID: 0018099

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... PUMPED HOT WELL (EAST OF PALOMAS MTS.-2)

TOWNSHIP-RANGE

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... YUMA
 GEOLOGIC PROVINCE... 04
 MAP REFERENCE..... PALOMAS MINS. 1:62500
 WELL/SPRING NUMBER..... 05S-12N-09-CCC
 B&M: GILA AND SALT RIVER
 SW OF SW SW
 COORDINATES
 LAT/LONG... 33-00.02 N 113-30.57 W
 UTM ZONE... +12
 NORTHING... 3653891.
 265646.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 41.6

WATER ANALYSIS

PH..... 8.02
ALKALINITY..... 125.7 AS HC03
TOTAL DISSOLVED SOLIDS... 624.
CHARGE IMBALANCE (% DIFF)... 9.4
ANALYSIS IN PPM

AG.... L 0.07 CO3..... N LI.... 0.19 SE.... 0.005
AL.... L 1.10 CR..... MG.... 1.7 SI02.. 45.61
AS.... 0.110 CU..... L 0.12 MO.... NA....
AU.... 0.54 F..... 3.6 NH4... L 0.05 SR.... 86.4
HA.... L 0.2 FE(TOT). L 0.11 NO3... 18.76
HE.... GA..... 125.7
HI.... HC03... 0.0009
CA.... 21.6 H2S.....
CA+MG. CU.... 165.9
CD.... CL....
CO.... K..... 4.7 ZN.... 0.08

QUALIFICATION FIELD..... NO3 EQUALS NO2 + NO3. PO4 CALCULATED FROM P.
REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00271

GEUTHERM FILE 10: 0018097

GEUTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... PUMPED HOT WELL (EAST OF PALOMAS MTS.)

WELL/SPRING NUMBER..... 055-12W-04-DCC

LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... YUMA

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... PALOMAS MTS. 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 30.2

WATER ANALYSIS

PH..... 7.91
ALKALINITY..... 148.9 AS HC03
TOTAL DISSOLVED SOLIDS... 752.
CHARGE IMBALANCE (% DIFF)... 4.2
ANALYSIS IN PPM

AG.... CO3..... N LI.... 0.19 SE.... 0.005
AL.... 0.32 CR..... MG.... 7.4 SI02.. 47.86
HE.... F..... 3.18 NA.... 200.2 SR.... 153.2
CA.... 43.7 FE(TOT). L 0.11 NO3...
CD.... HC03... 148.9
CO.... H2S.....
CL....
CU....
CO.... K..... 9.0

QUALIFICATION FIELD..... PO4 CALCULATED FROM P.
REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

ISOTOPE 10/001

ISOTOPE 10/001

COORDINATES

LAT/LONG... 33-00.93 N 113-30.13 W
UTM ZONE... 12
NORTHING... 3655743.
265535.

REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00272

GEOTHERM FILE ID: 0018094

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... PUMPED HOT WELL (NORTH OF AUGA CALIENTE MTS.)
 WELL/SPRING NUMBER..... 04S-11W-02-888

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... YUMA
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... HYDER SE 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 39.5

COORDINATES

LAT/LONG... 33-07-00 N 113-22.42 W
 UTM ZONE... +12
 NORTHING... 3666536.
 278555.

TOWNSHIP-RANGE

04S 011W 02
 B&M: GILA AND SALT RIVER

WATER ANALYSIS
 PH..... 8.18
 ALKALINITY..... 90.3 AS HCO3
 TOTAL DISSOLVED SOLIDS... 880.
 CHARGE IMBALANCE (% DIFF)... 8.9
 ANALYSIS IN PPM
 AG... L 0.07 CO3..... N LI... 0.26
 AL... L 1.10 CR..... MG... 1.7
 AS... 0.054
 AU... 0.88
 BA... L 0.2 CU... L 0.12 MO... SE... 0.006
 BF... FE(TOT). L 0.11 NA... SI02. 44.48
 BI... GA... NH4... SO4... 132.
 CA... 34.8 HCO3... NO3... SR... 0.44
 CA+MG... HG... 0.0008 P04... 0.03
 CD... H2S.....
 CL... 305.6
 CO... K... 4.7 ZN... 0.06

ISOLOPES (0/001)

QUALIFICATION FIELD,.... NO3 EQUALS NO2 + NO3. P04 CALCULATED FROM P.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00273

GEOTHERM FILE ID: 0018095

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... PUMPED HOT WELL (NORTHEAST OF BARAGAN MTS.)
 WELL/SPRING NUMBER..... 04S-11W-05-888

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... YUMA
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... BARAGAN MOUNTAIN 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 38.8

COORDINATES

LAT/LONG... 33-07-02 N 113-25.53 W
 UTM ZONE... +12
 NORTHING... 3666056.
 275276.

TOWNSHIP-RANGE

04S 011W 05
 B&M: GILA AND SALT RIVER

WATER ANALYSIS
 PH..... 7.99
 ALKALINITY..... 114.7 AS HCO3
 TOTAL DISSOLVED SOLIDS... 532.

NORTHING... 3654630.
265664.

COUNTY..... YUMA
GEOLOGIC PROVINCE... 04
MAP REFERENCE..... PALOMAS MINS. 1:62500
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C)..... 38.8
WATER ANALYSIS

PH..... 8.03
ALKALINITY..... 133. AS HC03
TOTAL DISSOLVED SOLIDS... 496.
CHARGE IMBALANCE (% DIFF)... 3.9
ANALYSIS IN PPM

ISOIOPES 10/001

AG..... CO3..... N
AL..... CR..... MG... 1.8
H..... 0.38 F..... 4.35 NA... 150.3 SI02. 44.48
HE..... FE(TOT)... L 0.11 NB... 90.8
CA..... 15.4 HC03..... 133.
CO..... H2S..... PU4... 0.09
CL..... 128.
CO..... K..... 5.9

QUALIFICATION FIELD..... P04 CALCULATED FROM P.
REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00276

GEOTHERM FILE ID: 0018054

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... PUMPED WELL (NE OF SALOME)
WELL/SPRING NUMBER..... 05N-13W-01-BCC
LOCATION

TOWNSHIP-RANGE

05N 013W 01 SW OF SW NW
B&M: GILA AND SALT RIVER

COORDINATES

LAT/LONG... 33-48.27 N 113-34.28 W
UTM ZONE... 12
NORTHING... 3743311.
262089.

PH..... 8.44
ALKALINITY..... 201.4 AS HC03
TOTAL DISSOLVED SOLIDS... 328.
CHARGE IMBALANCE (% DIFF)... 17.6
ANALYSIS IN PPM

ISOIOPES 10/001

AG..... CO3..... N
AL..... CR..... MG... 1.7
H..... 0.23 F..... 2.27 NA... 118.6 SI02. 24.
HE..... 6.8 FE(TOT)... L 0.1 NB... 8.7
CA..... 201.4 HC03.....
CO..... H2S..... PU4... 0.12
CL..... 41.1
CO..... K..... 1.6

QUALIFICATION FIELD..... P04 CALCULATED FROM P.
REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... GOODE, H.
ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00277

GEOTHERM FILE ID: 0018047

GEOTHERM-SAMPLE-FILE
NAME OF SAMPLE SOURCE... RADIUM SPRINGS WELL
WELL/SPRING NUMBER..... 08S-18W-12-CC
LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... YUMA
GEOLOGIC PROVINCE.. 04
MAP REFERENCE..... WELTON MESA 1:24000
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C)..... G 50.
WATER ANALYSIS

PH..... 8.64
TOTAL DISSOLVED SOLIDS... 2240.
CHARGE IMBALANCE (% DIFF)... 5.8
ANALYSIS IN PPM

ISOTOPE (0/00)

AG..... 24.
AL.....
H..... 3.18
HE.....
CA..... 46.1
CD.....
CL..... 1056.1
CO.....
K..... 17.2
PO4 CALCULATED FROM P.
REFERENCE AND IDENTIFICATION
COMPILED BY..... GOODE, H.
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... SWANBERG AND OTHERS, 1977

QUALIFICATION FIELD.....
REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00278

GEOTHERM FILE ID: 0018224

GEOTHERM-SAMPLE-FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL EAST OF AQUA CALIENTE MINS.
WELL/SPRING NUMBER..... 33-07.00 N 113-20.40 W
LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... YUMA
GEOLOGIC PROVINCE.. 04
MAP REFERENCE..... HYDER SE 1:24000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1946/01/22
TEMPERATURE (C)..... 31.1
WELL DEPTH (M)..... 31.
OTHER SAMPLE INFORMATION.. REFERENCE NOT AVAILABLE; RECORD NOT VERIFIED
WATER ANALYSIS

PH.....
TOTAL DISSOLVED SOLIDS... 1240.
CHARGE IMBALANCE (% DIFF)... 711.
ANALYSIS IN PPM

ISOTOPE (0/00)

AG.....
AL.....
H..... 0.92
HE.....
CA.....
CD.....
CL.....
CO.....
K.....
PO4 CALCULATED FROM P.
REFERENCE AND IDENTIFICATION
COMPILED BY.....
COMPILER AFFILIATION...
REFERENCE.....

HA.....
HE.....
CA..... 16.
CL..... 250.
FE+3.....
FE(TOT).....
HC03..... 90.
NA+K..... 249.
NB.....
NO3..... 72.
S04... 138.
OTHER ANALYTICAL DATA... CAC03=47.
REFERENCE AND IDENTIFICATION
C COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... *ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

GEO THERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL EAST OF AZTEC HILLS
WELL/SPRING NUMBER..... 07S-11W-27-C00
GEO THERM FILE ID: 0018208
RECORD 00279

LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... YUMA
MAP REFERENCE..... AZTEC HILLS 1:24000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1964/08/00
TEMPERATURE (C)..... 32.
WELL DEPTH (M)..... 180.

COORDINATES
LAT/LONG... 32-46.96 N 113-22.71 W

TOWNSHIP-RANGE
07S 011W 27
B&M: GILA AND SALT RIVER

WATER ANALYSIS

PH..... 8.9
SPECIFIC CONDUCTANCE..... 1190.
TOTAL DISSOLVED SOLIDS... 714.
CHARGE IMBALANCE (% DIFF)... 1.0
ANALYSIS IN MG/L

ISOTOPES (0/001

AG.....
AL.....
H..... 1.5
BE.....
CA..... 21.
CL..... 202.
CO3..... 13.
CR.....
F..... 8.0
FE(TOT).....
HC03..... 66.
K..... 2.7
LI..... 0.6
MG..... 2.1
NA..... 220.
NB.....
NO3... 4.9
S102... 52.
S04... 154.

OTHER ANALYTICAL DATA... CAC03=61., SAR=12.
REFERENCE AND IDENTIFICATION
C COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... WEIST, 1965

GEO THERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL EAST OF BARAGAN MT.
WELL/SPRING NUMBER..... 04S-11W-16-B88
GEO THERM FILE ID: 0018198
RECORD 00280

LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... YUMA
MAP REFERENCE..... BARAGAN Mtn. 1:24000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1964/08/00
TEMPERATURE (C)..... 30.
WELL DEPTH (M)..... 152.
DISCHARGE..... 5678. L/MIN

COORDINATES
LAT/LONG... 33-05.27 N 113-24.49 W

TOWNSHIP-RANGE
04S 011W 16
B&M: GILA AND SALT RIVER

WATER ANALYSIS

PH..... 8.1
 SPECIFIC CONDUCTANCE..... 1180.
 TOTAL DISSOLVED SOLIDS..... 680.
 CHARGE IMBALANCE (% DIFF).... 3.3
 ANALYSIS IN MG/L

AG.....
 AL..... 0.39
 H.....
 HE.....
 CA..... 65.
 CL..... 240.
 CO.....
 K..... 5.0
 LI..... 0.59
 MG..... 2.7
 NA..... 165.
 NH..... 40.
 FE(TOT)..... 3.8
 HCO3..... 96.
 NO3..... 17.
 SIO2..... 40.
 SO4..... 94.

OTHER ANALYTICAL DATA... CAC03=173., SAR=5.5

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... WEIST, 1965

RECORD 00281

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL EAST OF PALOMAS MTNS.

LOCATION

COUNTRY..... UNITED STATES 05S 012W 16 NW OF NW NW

STATE..... ARIZONA

COUNTY..... YUMA

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... PALOMAS MTS. 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1952/05/06

TEMPERATURE (C)..... 37.2

WELL DEPTH (M)..... 100.

OTHER SAMPLE INFORMATION.. REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED

WATER ANALYSIS

TOTAL DISSOLVED SOLIDS... 518.

ANALYSIS IN PPM

AL.....
 HA.....
 HE.....
 CA..... 18.
 CL..... 136.
 CR.....
 FE+3.....
 FE(TOT).....
 HCO3..... 115.
 MG..... 3.
 NA+K..... 150.
 NH..... 84.
 NO3..... 12.
 SIO2.....
 SO4..... 84.

OTHER ANALYTICAL DATA... CAC03=52.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

RECORD 00282

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL EAST OF PALOMAS MT.

LOCATION

COUNTRY..... UNITED STATES 05S-12W-21-888

STATE..... ARIZONA

COUNTY..... YUMA

GEOLOGIC PROVINCE.. 04

WELL/SPRING NUMBER..... 05S-12W-21-888

TEMPERATURE (C)..... 37.2

WELL DEPTH (M)..... 100.

OTHER SAMPLE INFORMATION.. REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED

ISOLOPES (0/00)

COORDINATES

LAT/LONG... 33-00.00 N 113-30.55 W

GEOTHERM FILE ID: 0018227

ISOLOPES (0/00)

COORDINATES

LAT/LONG... 32-59.15 N 113-30.52 W

GEOTHERM FILE ID: 0018206

MAP REFERENCE..... HORN 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1964/08/00

TEMPERATURE (C)..... 44.
 WELL DEPTH (M)..... 136.
 DISCHARGE..... 5299. L/MIN

WATER ANALYSIS

PH..... 8.0
 SPECIFIC CONDUCTANCE..... 1230.
 TOTAL DISSOLVED SOLIDS..... 716.
 CHARGE IMBALANCE (% DIFF).... 3.2
 ANALYSIS IN MG/L

AG.....	CO3..... N	LI.....	0.62
AL.....	CR.....	MG.....	7.4
BA.....	F..... 4.0	NA.....	185.
RE.....	FE(TOT).....	NB.....	
CA..... 47.	HC03..... 124.	NO3.....	19.
CL..... 238.			

CO..... K..... 9.3
 OTHER ANALYTICAL DATA... CA03=148., SAR=6.6

REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... WEIST, 1965

ISOLOPES (0/001)

RECORD 00283

GEOTHERM FILE ID: 0018212

GEOTHERM SAMPLE LIFE
 NAME OF SAMPLE SOURCE... UNNAMED WELL EAST OF WHITE WING RANCH (1)

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA

COUNTY..... YUMA

MAP REFERENCE..... AZTEC NW 1:24000

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1964/08/00

TEMPERATURE (C)..... 32.2
 WELL DEPTH (M)..... 151.

OTHER SAMPLE INFORMATION... REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED

WATER ANALYSIS

PH..... 7.0
 SPECIFIC CONDUCTANCE..... 1380.
 TOTAL DISSOLVED SOLIDS..... 816.
 CHARGE IMBALANCE (% DIFF).... 0.1
 ANALYSIS IN PPM

AG.....	CO3.....	LI.....	0.65
AL.....	CR.....	MG.....	0.9
BA..... 1.9	F..... 8.2	NA.....	249.
RE.....	FE(TOT).....	NB.....	
CA..... 31.	HC03..... 88.	NO3.....	1.3
CL..... 232.			

CO..... K..... 5.0
 OTHER ANALYTICAL DATA... CA03=81., SAR=12.

REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

ISOLOPES (0/001)

COORDINATES
 LAT/LONG... 32-58.7 N 113-27.0 W

RECORD 00284

GEOTHERM FILE ID: 0018230

GEOHEM SAMPLE FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL EAST OF WHITE WING RANCH (2)LOCATION
WELL/SPRING NUMBER... 055 012W 28 TOWNSHIP-RANGE

COUNTRY... UNITED STATES STATE... ARIZONA COUNTY... YUMA

MAP REFERENCE... AZTEC NW 1:24-000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1954/08/25

TEMPERATURE (C)... 33.9

WELL DEPTH (M)... 215

OTHER SAMPLE INFORMATION... REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED

WATER ANALYSIS

SPECIFIC CONDUCTANCE... 1310.

TOTAL DISSOLVED SOLIDS... 767.

ANALYSIS IN PPM

AL... CR... 6.2

H... F... 4.4

HA... NA... 222.

HE... FE(TOT)... 96.

CA... 40.

CL... 285.

CO... N

OTHER ANALYTICAL DATA... CAC03=126.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

RECORD 00285

GEOTHERM FILE ID: 0018192

GEOHEM SAMPLE FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL IN MCMULLEN VALLEY

WELL/SPRING NUMBER... 06N-12W-13-000 TOWNSHIP-RANGE

LOCATION
COUNTRY... UNITED STATES STATE... ARIZONA COUNTY... YUMA

MAP REFERENCE... GLADEN 1:62500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1963/09/27

TEMPERATURE (C)... 36.

WELL DEPTH (M)... 365.

DISCHARGE... 0 7684. L/MIN

WATER ANALYSIS

SPECIFIC CONDUCTANCE... 603.

ANALYSIS IN MG/L

AG... CO3... N

H... F... 4.0

HE... FE(TOT)... 55.

CA... 40.

CL... 285.

CO... N

OTHER ANALYTICAL DATA... CAC03=24.

QUALIFICATION FIELD..... DISCHARGE MEASURED 1965/09/00

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... BRIGGS, 1969

RECORD 00286

GEOTHERM FILE ID: 0018191

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL IN MCMULLEN VALLEY

WELL/SPRING NUMBER..... 06N-12W-13-000

LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... YUMA

TOWNSHIP-RANGE

12N 006W 13
 86M: GILA AND SALT RIVER

COORDINATES

LAT/LONG... 33-51.45 N 113-27.21 W

MAP REFERENCE..... GLADDEN 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1960/09/22

TEMPERATURE (C)..... 37.

WELL DEPTH (M)..... 365.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 601.

ANALYSIS IN MG/L

AG.....

CO3..... N

HC03..... 158.

CL..... 62.

OTHER ANALYTICAL DATA... CA03=22.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... BRIGGS, 1969

ISOTOPES (0/001)

RECORD 00287

GEOTHERM FILE ID: 0018190

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL IN MCMULLEN VALLEY

WELL/SPRING NUMBER..... 06N-12W-13-000

LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... YUMA

TOWNSHIP-RANGE

12N 006W 13
 86M: GILA AND SALT RIVER

COORDINATES

LAT/LONG... 33-51.45 N 113-27.21 W

MAP REFERENCE..... GLADDEN 1:62500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1958/07/24

TEMPERATURE (C)..... 37.

WELL DEPTH (M)..... 365.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 593.

ANALYSIS IN MG/L

AG.....

CO3..... N

HC03..... 156.

CL..... 58.

OTHER ANALYTICAL DATA... CA03=20.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... BRIGGS, 1969

ISOTOPES (0/001)

RECORD 00288

GEOTHERM FILE ID: 0018219

COORDINATES
LAT/LONG... 33-07-00 N 113-25.53 W

TOWNSHIP-RANGE
04S 011W 05 NW OF NW NW

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL NE OF BARAGAN MTNS.

LOCATION
COUNTRY... UNITED STATES

STATE... ARIZONA

COUNTY... YUMA

GEOLOGIC PROVINCE... 04

MAP REFERENCE... BARAGAN MTN. 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1953/05/11

TEMPERATURE (C)... 44.4

WELL DEPTH (M)... 142.

OTHER SAMPLE INFORMATION... REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED

WATER ANALYSIS

SPECIFIC CONDUCTANCE... 826.

TOTAL DISSOLVED SOLIDS... 510.

ANALYSIS IN PPM

AL... CR... 2.1

RA... 5.3

FE... 4.8

HE... NA... 5102.

CA... 23.

CL... 129.

OTHER ANALYTICAL DATA... CA03=66.

REFERENCE AND IDENTIFICATION

CUMPLER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

RECORD 00289

GEOTHERM FILE ID: 0018210

COORDINATES
LAT/LONG... 32-59.2 N 113-27.9 W

TOWNSHIP-RANGE
05S 012W 14 SW OF SW SE

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL NE OF WHITE WING RANCH (1)

LOCATION
COUNTRY... UNITED STATES

STATE... ARIZONA

COUNTY... YUMA

GEOLOGIC PROVINCE... 04

MAP REFERENCE... AZTEC NW 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1964/08/00

TEMPERATURE (C)... 33.3

WELL DEPTH (M)... 155.

OTHER SAMPLE INFORMATION... REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED

WATER ANALYSIS

PH... 7.0

SPECIFIC CONDUCTANCE... 1260.

TOTAL DISSOLVED SOLIDS... 731.

CHARGE IMBALANCE (% DIFF)... 0.5

ANALYSIS IN PPM

AG... CO3... 0.72

AL... CR... 0.7

RA... 2.0

FE... 7.6

HE... NA... 5102.

CA... 23.

CL... 129.

CA..... 22. MC03..... 72. N03... 6.0
CL..... 224.
CO.....

K..... 3.1

OTHER ANALYTICAL DATA... CAC03=56., SAR=13.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... *ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

RECORD 00290

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF AGUA CALIENTE MTS. (1)
WELL/SPRING NUMBER..... 04S-11W-02-B88
LOCATION

GEOTHERM FILE ID: 0018194

COORDINATES

LAT/LONG... 33-07.01 N 113-22.42 W

TOWNSHIP-RANGE

04S 011W 02 NW OF NW NW

B&M: GILA AND SALT RIVER

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... YUMA

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... HYDER SE 1:2400

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1964/08/00

TEMPERATURE (C)..... 39.

WELL DEPTH (M)..... 162.

DISCHARGE..... 2839. L/MIN

WATER ANALYSIS

PH..... 9.0

SPECIFIC CONDUCTANCE..... 1080.

TOTAL DISSOLVED SOLIDS... 647.

ANALYSIS IN MG/L

AG.....

AL.....

CL.....

CR.....

F.....

FE(TOT).....

HC03.....

CL.....

OTHER ANALYTICAL DATA... CAC03=44., SAR=13.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... WEIST, 1965

ISOLOPES 10/001

LI... 0.48

MG... 1.0

NA... 201.

SI02... 61.

S04... 118.

NB... 7.0

N03... 7.0

RECORD 00291

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF AGUA CALIENTE MTS. (3)
WELL/SPRING NUMBER..... 04S-11W-12-B88
LOCATION

GEOTHERM FILE ID: 0018197

COORDINATES

LAT/LONG... 33-6.13 N 113-21.41 W

TOWNSHIP-RANGE

04S 011W 12 NW OF NW NW

B&M: GILA AND SALT RIVER

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... YUMA

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... HYDER SE 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1964/08/00

TEMPERATURE (C)..... 35.

WELL DEPTH (M)..... 127.

DISCHARGE..... E 3785. L/MIN

WATER ANALYSIS

PH..... 7.5
 SPECIFIC CONDUCTANCE..... 2240.
 TOTAL DISSOLVED SOLIDS... 1250.
 CHARGE IMBALANCE (% DIFF)... 0.2
 ANALYSIS IN MG/L
 AG..... CO3..... N
 AL..... CR..... 0.95
 H..... 1.2 F..... 5.0 SI02.. 49
 HE..... FE(TOT).. NA..... 350.
 CA..... 81. HC03..... 88. NO3.. 17.
 CL..... 55.7. CO..... 9.7

OTHER ANALYTICAL DATA... CA03=226., SAR=10.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... WEIST, 1965

RECORD 00292

GEOTHERM FILE ID: 0018196

GEOTHERM-SAMPLE-FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF AGUA CALIENTE MTS. (2)
 WELL/SPRING NUMBER..... 04S-11W-12-AB8

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... YUMA
 MAP REFERENCE..... HYDER SE 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1964/08/00
 TEMPERATURE (C)..... 38.
 WELL DEPTH (M)..... 375.
 DISCHARGE..... 6056. L/MIN

COORDINATES

LAT/LONG... 33-06.13 N 113-20.86 W

TOWNSHIP-RANGE

04S 011W 12 NW OF NW NE
 B&M: GILA AND SALT RIVER

WATER ANALYSIS

PH..... 8.9
 SPECIFIC CONDUCTANCE..... 1100.
 TOTAL DISSOLVED SOLIDS... 657.
 ANALYSIS IN MG/L
 AG..... CO3..... 13. LI... 0.48
 AL..... CR..... 1.0
 H..... 0.99 F..... 5.2 SI02.. 56.
 HE..... FE(TOT).. NA..... 215.
 CA..... 10. HC03..... 84. NO3.. 4.7
 CL..... 192. CO..... 192.

OTHER ANALYTICAL DATA... CA03=29., SAR=17
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... WEIST, 1965

RECORD 00293

GEOTHERM FILE ID: 0018218

GEOTHERM-SAMPLE-FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF AGUA CALIENTE MTS. (6)
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA

TOWNSHIP-RANGE

04S 010W 07 NW OF NW NW
 B&M: GILA AND SALT RIVER

COORDINATES

LAT/LONG... 33-06.15 N 113-20.37 W

COUNTY..... YUMA
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... HYDER SE 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1953/05/11
 TEMPERATURE (C)..... 33.9
 WELL DEPTH (M)..... 152.

OTHER SAMPLE INFORMATION.. REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED

WATER ANALYSIS
 SPECIFIC CONDUCTANCE..... 1090.
 ANALYSIS IN PPM

CA..... HC03..... 111.
 CL..... 190.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... *ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

ISOLOPES 10/001

RECORD 00294

GEOTHERM FILE ID: 0018217

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF AQUA CALIENTE MTS. (S)
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... YUMA
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... HYDER SE 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1954/08/25
 TEMPERATURE (C)..... 35.
 WELL DEPTH (M)..... 137.

COORDINATES
 LAT/LONG... 33-07.00 N 113-20.40 W

TOWNSHIP-RANGE
 04S 010W 06 NW OF NW NW

OTHER SAMPLE INFORMATION.. REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED

WATER ANALYSIS
 SPECIFIC CONDUCTANCE..... 2530.
 TOTAL DISSOLVED SOLIDS... 1420.
 ANALYSIS IN PPM

AL..... CR..... 12.
 H..... 1.4 F..... 5.1
 NA..... FE+3.....
 HE..... FE(TOT)..... 225.
 CA..... 74. HC03..... 94. 4.1
 CL..... 615.

OTHER ANALYTICAL DATA... CAC03=234.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... *ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

ISOLOPES 10/001

RECORD 00295

GEOTHERM FILE ID: 0018202

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF AQUA CALIENTE MTS. (4)
 WELL/SPRING NUMBER..... 05S-11W-01-DCB
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... YUMA
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... HYDER SE 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1953/05/11
 TEMPERATURE (C)..... 33.9
 WELL DEPTH (M)..... 152.

TOWNSHIP-RANGE
 05S 011W 01 NW OF SW SE
 06M: GILA AND SALT RIVER

COORDINATES
 LAT/LONG... 33-01.1 N 113-20.8 W

MAP REFERENCE..... HYDER SE 1:24000
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1964/08/00
TEMPERATURE (C)..... 32.
WELL DEPTH (M)..... 274.

WATER ANALYSIS

PH..... 9.0
SPECIFIC CONDUCTANCE..... 1030.
TOTAL DISSOLVED SOLIDS..... 608.
CHARGE IMBALANCE (% DIFF).... 2.1
ANALYSIS IN MG/L
AG..... CO3..... 12. LI..... 0.44
AL..... CR..... 0.4
H..... 0.77 F..... 4.6 SI02. 36.
FE..... FE(TOT). NA..... 210. SO4.. 111.
CA..... 4.3 HCO3..... 81. NO3.. 8.3
CL..... 178. K..... 2.1
CO.....

OTHER ANALYTICAL DATA... CAC03=12., SAR=26.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... WEIST, 1965

RECORD 00296

GEOTERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF BARAGAN MTN

LOCATION

COUNTRY..... UNITED STATES 04S 011W 06 NW OF NE NE
STATE..... ARIZONA
COUNTY..... YUMA
GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... BARAGAN MTN. 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1954/08/25
TEMPERATURE (C)..... 37.8

OTHER SAMPLE INFORMATION.. REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 749.
TOTAL DISSOLVED SOLIDS.... 472.
ANALYSIS IN PPM

AL..... CR..... MG.... 1.5
H..... F..... NA.... 57.
HA..... FE+3.... NA+K. 133.
HE..... FE(TOT). NO3.. 81.
CA..... 22. HCO3..... 10.
CL..... 100.

OTHER ANALYTICAL DATA... CAC03=61.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

RECORD 00297

GEOTERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF BARAGAN MTN

LOCATION

COUNTRY..... UNITED STATES 33-07-00 N 113-25-78 W
STATE..... ARIZONA
COUNTY..... YUMA
GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... BARAGAN MTN. 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1954/08/25
TEMPERATURE (C)..... 37.8

OTHER SAMPLE INFORMATION.. REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 749.
TOTAL DISSOLVED SOLIDS.... 472.
ANALYSIS IN PPM

AL..... CR..... MG.... 1.5
H..... F..... NA.... 57.
HA..... FE+3.... NA+K. 133.
HE..... FE(TOT). NO3.. 81.
CA..... 22. HCO3..... 10.
CL..... 100.

OTHER ANALYTICAL DATA... CAC03=61.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

RECORD 0018220

NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF HORN (2)
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... YUMA
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... HORN 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1954/08/25
 TEMPERATURE (C)..... 33.3
 WELL DEPTH (M)..... 79.
 OTHER SAMPLE INFORMATION.. REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED

WATER ANALYSIS
 SPECIFIC CONDUCTANCE..... 920.
 TOTAL DISSOLVED SOLIDS... 566.
 ANALYSIS IN PPM
 AG..... 10.
 AL..... 3.6
 B..... 4.0
 F..... 55.
 HA..... 169.
 HE..... 92.
 CA..... 20.
 CL..... 145.
 CO3..... 120.
 CR..... MG...
 FE..... NA...
 FE(TOT)... NA...
 HCO3..... NO3...
 K..... 8.6

OTHER ANALYTICAL DATA... CA03=65.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... *ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

RECORD 00298

GEOTHERM FILE ID: 0018207

NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF HORN, ARIZONA
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... YUMA
 MAP REFERENCE..... HORN 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1964/08/00
 TEMPERATURE (C)..... 31.
 WELL DEPTH (M)..... 75.
 DISCHARGE..... 19. L/MIN

WATER ANALYSIS
 PH..... 8.5
 SPECIFIC CONDUCTANCE..... 852.
 TOTAL DISSOLVED SOLIDS... 503.
 CHARGE IMBALANCE (% DIFF)... 1.5
 ANALYSIS IN MG/L
 AG..... 3.
 AL..... 0.42
 B..... 4.1
 F..... 39.
 HA..... 159.
 HE..... 75.
 CA..... 11.
 CL..... 144.
 CO..... 3.6
 CO3..... LI...
 CR..... MG...
 FE..... NA...
 FE(TOT)... NA...
 HCO3..... NO3...
 K..... 11.
 SIO2..... 39.
 S04... 75.

ISOLOPES 10/001

ISOLOPES 10/001

OTHER ANALYTICAL DATA... CAC03=34., SAR=12.
 REFERENCE AND IDENTIFICATION
 COMPILED AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... WEIST, 1965

RECORD 00299
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF WHITE WING RANCH (4)
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... YUMA
 MAP REFERENCE..... AZTEC NW 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1954/08/26
 TEMPERATURE (C)..... 34.4
 WELL DEPTH (M)..... 174.

OTHER SAMPLE INFORMATION... REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED
 WATER ANALYSIS
 SPECIFIC CONDUCTANCE..... 1090.
 TOTAL DISSOLVED SOLIDS... 653.

ANALYSIS IN PPM
 AL.....
 B.....
 FE+3.....
 HA.....
 HE.....
 CA..... 26.
 CL..... 190.
 CR..... 9.5
 F..... 3.6
 NA..... 5102. 52.
 NA+K..... 185.
 NH.....
 NO3..... 16.
 S04..... 110.
 ISOTOPES 10/001

OTHER ANALYTICAL DATA... CAC03=104.
 REFERENCE AND IDENTIFICATION
 COMPILED AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... *ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

RECORD 00300
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF WHITE WING RANCH (3)
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... YUMA
 MAP REFERENCE..... AZTEC NW 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1954/08/26
 TEMPERATURE (C)..... 33.1
 WELL DEPTH (M)..... 282.

OTHER SAMPLE INFORMATION... REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED
 WATER ANALYSIS
 SPECIFIC CONDUCTANCE..... 798.
 TOTAL DISSOLVED SOLIDS... 488.

ANALYSIS IN PPM
 AL.....
 B.....
 FE+3.....
 HA.....
 HE.....
 CR..... 2.6
 F..... 4.4
 NA..... 5102. 43.
 NA+K..... 152.
 NH.....
 NO3..... 16.
 S04..... 81.
 ISOTOPES 10/001

OTHER ANALYTICAL DATA... CAC03=104.
 REFERENCE AND IDENTIFICATION
 COMPILED AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... *ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

CA.... 14. HC03.... 125. N03.. 10.

CL.... 120.

OTHER ANALYTICAL DATA... CAC03=46.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... *ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

RECORD 00301

GEOHEM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF WHITE WING RANCH (2)

LOCATION TOWNSHIP-RANGE

COUNTRY..... UNITED STATES 05S 012W 16 NW OF NE NE

STATE..... ARIZONA

COUNTY..... YUMA

MAP REFERENCE..... AZTEC NW 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1952/05/06

TEMPERATURE (C)..... 32.8

WELL DEPTH (M)..... 122.

OTHER SAMPLE INFORMATION.. REFERENCE NOT AVAILABLE. RECORD NOT VERIFIED

WATER ANALYSIS

TOTAL DISSOLVED SOLIDS... 469.

ANALYSIS IN PPM

AL....

HA....

BE....

CA.... 14.

CL.... 100.

OTHER ANALYTICAL DATA... CAC03=43.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... *ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

ISOTOPE 10/0001

MG... 2.

NA.K. 136.

NB... 88.

N03.. 12.

RECORD 00302

GEOHEM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF WHITE WING RANCH

WELL/SPRING NUMBER..... 05S-12W-15-CAC

LOCATION TOWNSHIP-RANGE

COUNTRY..... UNITED STATES 05S 012W 15 SW OF NE SW

STATE..... ARIZONA

COUNTY..... YUMA

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... AZTEC NW 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1964/08/00

TEMPERATURE (C)..... 34.

WELL DEPTH (M)..... 145.

DISCHARGE..... 5678. L/MIN

WATER ANALYSIS

PH..... 7.6

SPECIFIC CONDUCTANCE... 2450.

TOTAL DISSOLVED SOLIDS... 1400.

CHARGE IMBALANCE (% DIFF)... 1.5

ANALYSIS IN MG/L

GEUTHERM FILE ID: 0018204

COORDINATES

LAT/LONG... 32-59.41 N 113-29.29 W

ISOTOPE 10/0001

AG..... CO3..... N LI.... 1.0
AL..... CR..... 31.
H..... 0.79 F..... 3.8 SI02. 46.
HE..... FE(TOT). NA.... 248. S04.. 144.
CA..... 182. HC03..... 91.
CL..... 587. K..... 10.
CO.....
OTHER ANALYTICAL DATA... CA03=580., SAR=4.5
REFERENCE AND IDENTIFICATION
COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... WEIST, 1965

RECORD 00303
GEOTERM_SAMPLE_FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL NORTHEAST OF BARAGAN MT.
WELL/SPRING NUMBER..... 045-11W-05-BBB
GEOTERM FILE ID: 0018195

COORDINATES
LAT/LONG... 33-07.01 N 113-25.53 W

LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... YUMA
GEOLOGIC PROVINCE.. 04

MAP REFERENCE... BARAGAN MTN. 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1964/08/00

TEMPERATURE (C)..... 39.

WELL DEPTH (M)..... 142.

DISCHARGE..... 5299. L/MIN

WATER ANALYSIS

PH..... 8.0

SPECIFIC CONDUCTANCE... 896.

TOTAL DISSOLVED SOLIDS... 537.

CHARGE IMBALANCE (% DIFF)... 3.4

ANALYSIS IN MG/L

ISOTOPIES (0/001)

AG..... CO3..... LI.... 0.44
AL..... CR..... MG.... 1.2
H..... 0.47 F..... 4.4 NA.... 148. SI02. 50.
HE..... FE(TOT). NB.... 86. S04.. 86.
CA..... 29. HC03..... 13.
CL..... 146. K..... 13.
CO.....

OTHER ANALYTICAL DATA... CA03=77. SAR=7.3
REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... WEIST, 1965

RECORD 00304
GEOTERM_SAMPLE_FILE
NAME OF SAMPLE SOURCE... UNNAMED WELL NW OF HORN (1)
WELL/SPRING NUMBER..... 055-012W-19
GEOTERM FILE ID: 0018211

COORDINATES
LAT/LONG... 32-58.4 N 113-32.5 W

LOCATION
COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... YUMA

MAP REFERENCE... HORN 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1964/08/00
 TEMPERATURE (C)..... 33.3
 WELL DEPTH (M)..... 207.
 OTHER SAMPLE INFORMATION.. REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED
 WATER ANALYSIS
 PH..... 7.3
 SPECIFIC CONDUCTANCE..... 1610.
 TOTAL DISSOLVED SOLIDS... 924.
 ANALYSIS IN PPM
 AG..... CO3..... LI... 0.6
 AL..... CR..... MG... 6.0
 H..... 1.4 F..... 4.8 SI02. 24.
 HE..... FE(TOT)... NA... 284. S04... 215.
 CA..... 35. MC03.... 90. NO3... 6.8
 CL..... 302.
 OTHER ANALYTICAL DATA... CAC03=112.. SAR=12.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... *ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

RECORD 00305

GEOTHERM FILE ID: 0018231

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL SE OF WHITE WING RANCH (2)
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... IOWNSHIP=RANGE
 COUNTY..... YUMA
 MAP REFERENCE..... AZTEC NW 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1953/03/24
 TEMPERATURE (C)..... 30.6
 WELL DEPTH (M)..... 148.
 OTHER SAMPLE INFORMATION.. REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED

COORDINATES

LAT/LONG... 32-57.42 N 113-28.49 W

WATER ANALYSIS
 SPECIFIC CONDUCTANCE..... 969.
 TOTAL DISSOLVED SOLIDS... 566.
 ANALYSIS IN PPM
 AL..... CR..... MG... 3.1
 H..... F..... 3.2 SI02. 39.
 HA..... FE+3.... NA... 175.
 HE..... FE(TOT)... NA... 77.
 CA..... 21. MC03.... 104. NO3... 9.0
 CL..... 188.

ISOTOPES (0/00)

OTHER ANALYTICAL DATA... CAC03=65.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... *ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

RECORD 00306

GEOTHERM FILE ID: 0018205

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTH OF BARAGAN MT.
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... IOWNSHIP=RANGE
 COUNTY..... YUMA
 MAP REFERENCE..... AZTEC NW 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1953/03/24
 TEMPERATURE (C)..... 30.6
 WELL DEPTH (M)..... 148.
 OTHER SAMPLE INFORMATION.. REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED

COORDINATES

LAT/LONG... 33-00.0 N 113-29.8 W

STATF..... ARIZONA B6M: GILA AND SALT RIVER

COUNTY..... YUMA

MAP REFERENCE..... BARAGAN MTN. 1124000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1964/08/00

TEMPERATURE (C)..... 32.

WELL DEPTH (M)..... 191.

DISCHARGE..... 5299. L/MIN

WATER ANALYSIS

PH..... 7.2

SPECIFIC CONDUCTANCE..... 1160.

TOTAL DISSOLVED SOLIDS..... 699.

CHARGE IMBALANCE (% DIFF).... 5.9

ANALYSIS IN MG/L

AG..... CO3..... 0.6

AL..... CR..... 6.2

HA..... 0.46 F..... 3.7

HE..... FE(TOT)..... 178.

CA..... 45. HCO3..... 41.

CL..... 194.

CO..... K..... 6.6

OTHER ANALYTICAL DATA... CAC03=138. SAR=6.6

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

REFERENCE..... WEIST, 1965

ISOTOPES 10/001

SI02. 45.

S04.. 118.

RECORD 00307

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTHEAST OF BARAGAN MT.

WELL/SPRING NUMBER..... 045-11W-21-ABB

LOCATION

COUNTRY..... UNITED STATES

STATF..... ARIZONA

COUNTY..... YUMA

MAP REFERENCE..... BARAGAN MTN. 1124000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1964/08/00

TEMPERATURE (C)..... 32.

WELL DEPTH (M)..... 419.

DISCHARGE..... 8328. L/MIN

WATER ANALYSIS

PH..... 9.3

SPECIFIC CONDUCTANCE..... 892.

TOTAL DISSOLVED SOLIDS..... 569.

ANALYSIS IN MG/L

AG..... CO3..... 31.

AL..... CR..... 0.4

HA..... 0.64 F..... 5.8

HE..... FE(TOT)..... 178.

CA..... 5.9 HCO3..... 9.9

CL..... 126.

OTHER ANALYTICAL DATA... CAC03=17. SAR=19.

REFERENCE AND IDENTIFICATION

COORDINATES

LAT/LONG... 33-04.3 N 113-24.0 W

GEOTHERM FILE ID: 0018199

ISOTOPES 10/001

SI02. 80.

S04.. 90.

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... WEIST, 1965

RECORD 00308

GEOTHERM FILE ID: 0018209

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTHWEST OF AZTEC, ARIZONA
WELL/SPRING NUMBER..... 07S-12W-13-BBD

LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... YUMA

MAP REFERENCE..... AZTEC HILLS 1:24000
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1964/08/00

TEMPERATURE (C)..... 33.
WELL DEPTH (M)..... 201.

WATER ANALYSIS

PH..... 6.8
SPECIFIC CONDUCTANCE..... 3650.
TOTAL DISSOLVED SOLIDS..... 2400.
CHARGE IMBALANCE (% DIFF).... 1.0

ANALYSIS IN MG/L

AG.....	CO3..... N	LI....	1.5
AL.....	CR.....	MG....	9.0
BA.....	FE.....	NA....	635.
BR.....	FE(TOT)...	NO....	27.
CA.....	HC03.....	NO3...	18.
CL.....	K.....		
CO..... N			

OTHER ANALYTICAL DATA... CAC03=426.. SAR=13.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... WEIST, 1965

RECORD 00309

GEOTHERM FILE ID: 0018203

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF AQUA CALIENTE MTS.
WELL/SPRING NUMBER..... 05S-11W-11-CAB

LOCATION

COUNTRY..... UNITED STATES
STATE..... ARIZONA
COUNTY..... YUMA

MAP REFERENCE..... HYDER SE 1:24000
SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1964/08/00
TEMPERATURE (C)..... 37.

WELL DEPTH (M)..... 305.
DISCHARGE..... 3785. L/MIN

WATER ANALYSIS

PH..... 8.8
SPECIFIC CONDUCTANCE..... 1020.
TOTAL DISSOLVED SOLIDS... 599.

ANALYSIS IN MG/L

ISOTOPES 10/001

AG..... CO3..... 6. LI.... 0.44
 AL..... CR..... N
 H..... 0.76 F..... 4.5 SI02. 44.
 HE..... FE(TOT). NO3.. 110.
 CA..... 12. HCO3.... 79. 8.7
 CL..... 178.

OTHER ANALYTICAL DATA... CaCO3=30.; SAR=16.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... WEIST, 1965

RECORD 00310
 GEOTHERM FILE ID: 0018036

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... WARM WELL
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... YUMA

TOWNSHIP=RANGE
 10N 012W 02 SW OF NE

COORDINATES

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1978/03/29

TEMPERATURE (C)..... 31.0
 WELL DEPTH (M)..... 152.
 DISCHARGE..... 1060. L/MIN

WATER ANALYSIS

PH..... 6.5
 TOTAL DISSOLVED SOLIDS... 407.
 CHARGE IMBALANCE (% DIFF)... 26.6

ISOTOPE 10/001

AL..... CR..... 4.6
 H..... F..... 71.
 HE..... FE(TOT). SI02. 12.
 CA..... 35. HCO3.... 130. S04.. 47.
 CL..... 33.

CO..... K..... 2.6

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

APPENDIX A

Index to GEOTHERM'S sample file for the state of Arizona. This computer generated appendix contains some truncated fields. The index is sorted by county and name of the source. TNS - township, RNG range, Sect. - section, I.D. - GEOTHERM record identifier, Temp. - temperature °C (see Table 1 for explanation of alphabetic qualifiers preceding temperature.)

County	Name of Source	Latitude	Longitude	TNS	RNG	Sect.	I.D.	Temp.
COCHISE	HOOKER'S HOT SPRING	32-20.2	N 110-14.3	W 13S	021E	06	0018102	52.5
COCHISE	HOOKERS HOT SPRINGS	32-20.007N	110-14.306W	13S	021E	06	0002939	51.5
COCHISE	HOOKERS HOT SPRINGS	32-20.20	N 110-14.27	W 13S	021E	06	0015694	52.
COCHISE	PUMPED WELL (EAST OF PEDREGOSA MTN.)	31-30.90	N 109-15.1	W 22S	030E	14	0018048	29.0
COCHISE	PUMPED WELL (NORTH OF BOWIE)	32-24.0	N 109-28.9	W 12S	028E	10	0018104	35.5
COCHISE	PUMPED WELL (NORTH OF BOWIE-2)	32-21.2	N 109-28.20	W 12S	028E	34	0018106	36.0
COCHISE	PUMPED WELL (SOUTH OF BOWIE)	32-19.1	N 109-29.0	W 13S	028E	10	0018105	36.0
COCHISE	PUMPED WELL (SOUTH OF BOWIE-2)	32-20.7	N 109-29.0	W 12S	028E	34	0018107	31.0
COCHISE	WARM ARTESIAN WELL	31-20.6	N 109-15.7	W 24S	030E	14	0018050	29.5
COCHISE	WARM SPRINGS (WEST OF WINCHESTER MTS.)	32-20.83	N 110-14.38	W 12S	021E	31	0018101	32.5
COCHISE	WELL DOMESTIC (SOUTH OF SAN SIMON)	32-14.92	N 109-13.69	W 13S	030E	36	0018029	41.7
COCHISE	WELL FOR AGRICULTURAL AND DOMESTIC USE	32-20.72	N 110-02.55	W 12S	023E	31	0018033	54.4
COCHISE	WELL FOR AGRICULTURAL USE	32-20.172N	109-55.206W	13S	024E	05	0018032	47.7
COCHISE	WELL IRRIGATION (SE OF BOWIE)	32-16.372N	109-22.257W	13S	029E	27	0018030	33.3
COCHISE	WELL IRRIGATION (2)	32-19.303N	109-51.896W	13S	024E	11	0018031	40.5
COCHISE	WINDMILL WELL (WEST OF LAZY J RANCH)	32-23.4	N 109-14.7	W 23S	030E	36	0018049	28.8
COCONINO	BEVERLY WELL	35-10.2	N 112-49.2	W			0000211	32.
GILA	HOT SPRING (SOUTH OF SAN CARLOS RESERVOIR)	33-09.35	N 110-31.4	W 13S	018E	17	0018078	36.6
GILA	MESCAL WARM SPRINGS	33-09.30	N 110-38.23	W 03S	017E	20	0018077	29.1
GILA	UNNAMED WARM SPRINGS (COOLIDGE DAM)	33-09.95	N 110-31.4	W			0002940	36.0
GILA	WARM SPRINGS	33-26.40	N 110-12.7	W 01N	020E	12	0018060	30.0
GRAHAM	CAT TANK WINDMILL	32-43.7	N 109-22.7	W 08S	029E	21	0018080	32.8
GRAHAM	COLLINS HEALTH SPA(WELL)	32-45.09	N 109-43.20	W 08S	026E	07	0018114	41.5
GRAHAM	GRAPEVINE SPRING	33-00.5	N 109-46.7	W			0001483	33.
GRAHAM	HOT ARTESIAN WELL (WEST OF DANK WORTH LAKE)	32-43.27	N 109-42.57	W 08S	026E	20	0018059	39.4
GRAHAM	HOT ARTESIAN WELL (WEST OF DANK WORTH LAKE-2)	32-44.95	N 109-42.65	W 08S	026E	08	0018086	39.4
GRAHAM	HOT PUMPED WELL (EAST OF STARVATION FLAT)	32-31.40	N 109-25.55	W 10S	028E	36	0018083	41.1
GRAHAM	HOWARD WELL	32-26.33	N 109-20.78	W 11S	029E	36	0018103	30.5
GRAHAM	INDIAN HOT SPRING	33-00.2	N 109-54.0	W 05S	024E	17	0018123	46.5
GRAHAM	INDIAN HOT SPRING DUG WELL	33-00.1	N 109-54.0	W 05S	024E	17	0018124	47.0
GRAHAM	INDIAN HOT SPRINGS	32-59.93	N 109-53.87	W 05S	024E		0015695	48.
GRAHAM	INDIAN HOT SPRINGS	32-59.85	N 109-53.95	W 05S	024E	17	0002941	48.0
GRAHAM	LEBANON MINERAL BATH	32-45.40	N 109-43.47	W 08S	026E		0015734	41.
GRAHAM	LEBANON MINERAL BATH(WELL)	32-45.47	N 109-43.33	W 08S	026E	07	0018901	41.5
GRAHAM	LUCATS HEALTH SPA(WELL)	32-44.7	N 109-43.0	W 08S	026E	07	0018122	42.0
GRAHAM	LUKAT'S SPA WELL	32-41.17	N 109-42.50	W 09S	026E		0015696	42.
GRAHAM	MOUNT GRAHAM MINERAL BATH WELL	32-52.07	N 109-45.40	W 06S	025E	35	0015697	45.
GRAHAM	MR. GRAHAM MINERAL BATH	32-51.73	N 109-44.93	W 06S	025E	36	0018121	43.5
GRAHAM	MT. GRAHAM HOT MINERAL WELL	32-51.274N	109-44.633W	07S	025E	01	0002942	42.0
GRAHAM	PUMPED HOT WELL (NORTH OF BUENA VISTA)	32-50.7	N 109-33.6	W 07S	027E	11	0018120	43.5
GRAHAM	PUMPED HOT WELL (SOUTH OF ARTESIA)	32-41.1	N 109-42.5	W 09S	026E	05	0018109	33.0
GRAHAM	PUMPED HOT WELL (SOUTH OF GILA MTS.)	32-51.3	N 109-33.0	W 07S	027E	02	0018119	37.5
GRAHAM	PUMPED WELL (SOUTH OF SAFFORD-6)	32-45.3	N 109-41.6	W 08S	026E	09	0018084	38.9
GRAHAM	PUMPED WELL (SOUTH OF WHITLOCK MTS.)	32-33.0	N 109-23.7	W 10S	029E	20	0018082	34.1
GRAHAM	ROCK WELL WINDMILL	32-43.37	N 109-21.93	W 08S	029E	22	0018081	30.8

GRAHAM	UNNAMED WELL SOUTH OF SAFFORD, ARIZONA (1)	32-45.2	N	109-41.7	W	08S	026E	09	0018085	29.4
GRAHAM	UNNAMED WELL SOUTH OF SAFFORD, ARIZONA (5)	32-45.46	N	109-03.98	W	08S	026E	12	0018113	39.0
GRAHAM	UNNAMED WELL SOUTH OF SAFFORD, ARIZONA (4)	32-45.10	N	109-43.40	W	08S	026E	07	0018112	37.0
GRAHAM	UNNAMED WELL SOUTH OF SAFFORD, ARIZONA (3)	32-45.4	N	109-43.6	W	08S	026E	07	0018111	34.5
GRAHAM	UNNAMED WELL SOUTH OF SAFFORD, ARIZONA (2)	32-45.4	N	109-43.8	W	08S	026E	07	0018110	33.5
GRAHAM	UNNAMED WELL SOUTHWEST OF DANKWORTH LAKE	32-43.1	N	109-42.5	W	08S	026E	20	0018117	44.0
GRAHAM	WARM SPRING	32-58.9	N	110-22.4	W				0001486	26.
GRAHAM	WARM SPRING (NW OF FT. THOMAS)	33-04.30	N	109-59.00	W	04S	023E	21	0018116	31.5
GRAHAM	WARM SPRING NEAR INDIAN HOT SPRINGS	33-00.0	N	109-54.0	W	05S	024E	17	0018115	33.0
GRAHAM	WELL (NORTH OF CACTUS FLAT)	32-45.84	N	109-43.36	W	08S	026E	06	0018027	42.2
GRAHAM	WELL (NORTH OF SOLOMON)	32-50.15	N	109-37.19	W	07S	027E	07	0018028	46.1
GRAHAM	WINDMILL WELL (EAST OF METATE PEAK)	32-40.97	N	109-42.33	W	09S	026E	05	0018108	33.0
GREENLEE	CLIFTON HOT SPRINGS	33-03.20	N	109-17.80	W	04S	030E	30	0000265	39.0
GREENLEE	CLIFTON HOT SPRINGS	33-03.22	N	109-17.70	W	04S	030E	30	0015698	45.
GREENLEE	EAGLE CREEK SPRING (UNNAMED WARM SPRING)	33-02.75	N	109-26.37	W	04S	028E	35	0002947	35.0
GREENLEE	GILLARD HOT SPRING	32-58.40	N	109-20.97	W	05S	029E	27	0018125	82.0
GREENLEE	GILLARD HOT SPRINGS	32-58.40	N	109-20.97	W	05S	029E	27	0015699	82.
GREENLEE	GILLARD HOT SPRINGS	32-58.40	N	109-20.97	W	05S	029E	27	0000269	82.0
GREENLEE	HANNA HOT SPRINGS	33-24.02	N	109-09.13	W	01N	031E	29	0018034	55.5
GREENLEE	HANNA HOT SPRINGS	33-24.0	N	109-09.1	W	01N	031E		0000210	54.
GREENLEE	HANNAH HOT SPRING	33-24.0	N	109-09.1	W				0000292	54.
GREENLEE	HOT SPRING N. OF CLIFTON	33-04.80	N	109-18.17	W	04S	030E	18	0000263	44.0
GREENLEE	HOT SPRING NORTH OF CLIFTON	33-04.706N	N	109-18.156W	W	04S	030E	18	0018035	61.0
GREENLEE	SEEP	33-04.2	N	109-17.9	W	04S	030E	19	0018128	34.8
GREENLEE	SPRING (NORTH OF CLIFTON)	33-04.80	N	109-18.17	W	04S	030E	18	0018126	48.0
GREENLEE	SPRING (WEST OF CLIFTON)	33-02.75	N	109-26.37	W	04S	028E	35	0018127	42.0
GREENLEE	WELL AT CLIFTON HOT SPRINGS	33-03.23	N	109-17.75	W	04S	030E	30	0018175	48.9
GREENLEE	AQUA CALIENTE SPRINGS WELL	32-59.14	N	113-19.49	W	05S	010W	19	0015700	38.
MARICOPA	BUCKHORN MINERAL BATH WELL	33-24.97	N	111-42.12	W	01N	006E	23	0015701	49.
MARICOPA	BUCKHORN MINERAL BATH(WELL)	33-25.0	N	111-42.2	W	01N	006E	23	0018088	48.5
MARICOPA	HOT PUMPED WELL (NORTH OF SCOTTSDALE)	33-32.70	N	111-54.80	W	02N	004E	02	0018038	39.0
MARICOPA	HOT PUMPED WELL (NW OF SADDLE MTN.)	33-28.80	N	113-06.33	W	02N	002W	32	0018039	35.0
MARICOPA	HOT PUMPED WELL (SE OF MCMICKEN)	33-28.70	N	112-24.30	W	02N	001W	31	0018041	33.0
MARICOPA	HOT PUMPED WELL (WEST OF SADDLE MTN.)	33-27.90	N	113-06.62	W	01N	008W	06	0018040	33.0
MARICOPA	HOT PUMPED WELL (5)	33-26.38	N	112-28.71	W	01N	002W	08	0018042	44.0
MARICOPA	HOT WELL (TONOPAH)	33-29.310N	N	112-56.488W	W	02N	007W	26	0002946	50.5
MARICOPA	HUDSON FARMS, INC. WELL	33-01.5	N	113-20.0	W	05S	010W	06	0015702	45.
MARICOPA	PUMPED HOT WELL (EAST OF AUGA CALIENTE MTS.)	32-59.62	N	113-18.28	W	05S	010W	16	0018092	45.8
MARICOPA	PUMPED HOT WELL (SOUTH OF BUCKHORN)	33-24.05	N	111-42.62	W	01N	006E	26	0018087	38.8
MARICOPA	PUMPED WARM WELL (EAST OF THEBA)	32-55.9	N	112-45.1	W	06S	005W	03	0018045	37.5
MARICOPA	PUMPED WARM WELL (SW OF GILA BENO)	32-56.2	N	112-44.2	W	06S	005W	02	0018046	36.0
MARICOPA	PUMPED WARM WELL (SW OF SIERRA ESTRELLA)	33-07.43	N	112-21.30	W	03S	001W	34	0018070	29.0
MARICOPA	PUMPED WARM WELL (WEST OF SIERRA ESTRELLA-3)	33-12.2	N	112-21.9	W	03S	001W	34	0018069	34.5
MARICOPA	PUMPED WARM WELL (WEST OF SIERRA ESTRELLA-2)	33-13.1	N	112-25.5	W	02S	002W	25	0018068	32.8
MARICOPA	PUMPED WARM WELL (WEST OF SIERRA ESTRELLA)	33-14.00	N	112-26.58	W	02S	002W	23	0018067	31.2
MARICOPA	PUMPED WELL (NW OF MARICOPA MTS.)	33-13.6	N	112-38.6	W	02S	004W	26	0018090	35.2
MARICOPA	PUMPED WELL (NW OF MARICOPA MTS.-2)	33-09.98	N	112-39.00	W	03S	004W	15	0018091	28.2
MARICOPA	PUMPED WELL (NW OF MARICOPA MTS.-3)	33-08.75	N	112-39.00	W	03S	004W	22	0018093	28.5
MARICOPA	PUMPED WELL (NW OF SADDLE MTN.-3)	33-28.30	N	113-10.17	W	02N	009W	34	0018053	40.0
MARICOPA	PUMPED WELL (SE OF BUCKEYE HILLS)	33-10.7	N	112-40.1	W	03S	004W	09	0018089	30.0
MARICOPA	PUMPED WELL (SOUTH OF TONOPAH)	33-29.40	N	112-56.67	W	02N	007W	26	0018052	49.4
MARICOPA	PUMPED WELL (WEST OF GLENDALE)	33-32.28	N	112-13.22	W	02N	001E	02	0018043	30.0

MARICOPA	UNNAMED WELL	33-23.9 N	02N 001W	30	0018238	31.1
MARICOPA	UNNAMED WELL	33-30.05 N 112-24.50 W	02N 001W	19	0018236	32.2
MARICOPA	UNNAMED WELL (EAST OF CENTENIAL FARMS)	33-26.893N 113-14.627W	01N 010W	01	0018140	33.0
MARICOPA	UNNAMED WELL (EAST OF CITRUS PARK)	33-33.0 N 112-25.9 W	02N 002W	01	0018240	32.2
MARICOPA	UNNAMED WELL (NE OF BEARDSLEY)	33-40.03 N 112-22.63 W	04N 001W	29	0018270	32.7
MARICOPA	UNNAMED WELL (NE OF BEARDSLEY)	33-40.03 N 112-22.62 W	04N 001W	29	0018269	32.7
MARICOPA	UNNAMED WELL (NE OF CITRUS PARK)	33-34.85 N 112-25.08 W	03N 002W	25	0018260	32.7
MARICOPA	UNNAMED WELL (NE OF CITRUS PARK)	33-34.85 N 112-25.08 W	03N 002W	25	0018259	32.7
MARICOPA	UNNAMED WELL (NORTH OF MARY E RANCH)	33-31.130N 113-09.590W	02N 009W	14	0018130	32.0
MARICOPA	UNNAMED WELL (NW OF BEARDSLEY)	33-40.92 N 112-24.17 W	04N 001W	19	0018262	31.1
MARICOPA	UNNAMED WELL (NW OF BEARDSLEY)	33-40.92 N 112-24.17 W	04N 001W	19	0018261	31.1
MARICOPA	UNNAMED WELL (NW OF BEARDSLEY-2)	33-40.70 N 112-23.60 W	04N 001W	20	0018263	32.7
MARICOPA	UNNAMED WELL (NW OF BEARDSLEY-2)	33-40.70 N 112-23.60 W	04N 001W	20	0018263	32.7
MARICOPA	UNNAMED WELL (NW OF BEARDSLEY-3)	33-40.1 N 112-23.4 W	04N 001W	20	0018265	33.3
MARICOPA	UNNAMED WELL (NW OF BEARDSLEY-3)	33-40.1 N 112-23.4 W	04N 001W	20	0018266	33.3
MARICOPA	UNNAMED WELL (NW OF LIZARD ACRES)	33-40.03 N 112-22.08 W	04N 001W	28	0018268	31.1
MARICOPA	UNNAMED WELL (NW OF LIZARD ACRES)	33-40.03 N 112-22.08 W	04N 001W	28	0018267	31.1
MARICOPA	UNNAMED WELL (SE OF MCWICKEN)	33-29.20 N 112-25.53 W	02N 002W	25	0018248	33.3
MARICOPA	UNNAMED WELL (SE OF MCWICKEN)	33-29.20 N 112-25.53 W	02N 002W	25	0018247	33.3
MARICOPA	UNNAMED WELL (SOUTH OF CASEY PARK-2)	33-23.9 N 112-24.1 W	02N 001W	30	0018239	31.1
MARICOPA	UNNAMED WELL (SOUTH OF CITRUS PARK)	33-31.33 N 112-26.62 W	02N 002W	15	0018243	30.0
MARICOPA	UNNAMED WELL (SOUTH OF LUKE AIR FORCE BASE-2)	33-30.05 N 112-23.92 W	02N 001W	19	0018237	31.1
MARICOPA	UNNAMED WELL (SOUTH OF LUKE AIR FORCE BASE-3)	33-30.48 N 112-23.70 W	02N 001W	19	0018235	31.7
MARICOPA	UNNAMED WELL (SOUTH OF MCWICKEN)	33-29.20 N 112-25.55 W	02N 002W	25	0018246	84.4
MARICOPA	UNNAMED WELL (SOUTHEAST OF CITRUS PARK)	33-32.22 N 112-26.10 W	02N 002W	11	0018241	30.6
MARICOPA	UNNAMED WELL (SOUTHEAST OF CITRUS PARK)	33-32.22 N 112-26.10 W	02N 002W	11	0018242	30.6
MARICOPA	UNNAMED WELL (SW OF BEARDSLEY)	33-38.30 N 112-24.15 W	03N 001W	06	0018253	30.6
MARICOPA	UNNAMED WELL (SW OF BEARDSLEY)	33-38.30 N 112-24.15 W	03N 001W	06	0018252	30.6
MARICOPA	UNNAMED WELL (SW OF BEARDSLEY-2)	33-39.22 N 112-25.58 W	04N 002W	26	0018273	30.6
MARICOPA	UNNAMED WELL (SW OF BEARDSLEY-2)	33-38.13 N 112-24.57 W	03N 002W	01	0018254	30.0
MARICOPA	UNNAMED WELL (SW OF BEARDSLEY-3)	33-38.13 N 112-24.57 W	03N 002W	01	0018255	30.0
MARICOPA	UNNAMED WELL (SW OF BEARDSLEY-3)	33-38.18 N 112-26.12 W	03N 002W	02	0018256	30.0
MARICOPA	UNNAMED WELL (SW OF BEARDSLEY-4)	33-38.18 N 112-26.12 W	03N 002W	02	0018257	30.0
MARICOPA	UNNAMED WELL (SW OF BEARDSLEY-4)	33-39.22 N 112-23.94 W	04N 001W	30	0018271	31.1
MARICOPA	UNNAMED WELL (SW OF MCWICKEN)	33-28.75 N 112-27.62 W	02N 002W	27	0018250	30.6
MARICOPA	UNNAMED WELL (SW OF MCWICKEN)	33-28.75 N 112-27.62 W	02N 002W	27	0018249	30.6
MARICOPA	UNNAMED WELL (SW OF MCWICKEN-2)	33-35.68 N 112-26.65 W	03N 002W	36	0018251	32.2
MARICOPA	UNNAMED WELL (SW OF MCWICKEN)	33-35.68 N 112-26.65 W	03N 002W	22	0018258	30.0
MARICOPA	UNNAMED WELL (WEST OF LUKE AIR FORCE BASE)	33-31.33 N 112-24.50 W	02N 001W	18	0018234	30.6
MARICOPA	UNNAMED WELL (WEST OF SADDLE MTN.-11)	33-24.83 N 113-11.70 W	01N 009W	21	0018143	32.0
MARICOPA	UNNAMED WELL EAST OF BLECHA RANCH (2/2)	33-31.32 N 113-08.10 W	02N 009W	13	0018172	32.
MARICOPA	UNNAMED WELL EAST OF BLECHA RANCH (1/2)	33-31.32 N 113-08.10 W	02N 009W	13	0018171	33.
MARICOPA	UNNAMED WELL EAST OF DENDORA RANCH (1)	33-02.43 N 113-02.80 W	04S 008W	26	0018214	35.0
MARICOPA	UNNAMED WELL EAST OF DENDORA RANCH (1)	33-02.43 N 113-02.80 W	04S 008W	26	0018213	35.0
MARICOPA	UNNAMED WELL NEAR CENTENIAL FARMS (2/2)	33-27.1 N 113-14.0 W	01N 010W	01	0018162	36.
MARICOPA	UNNAMED WELL NEAR CENTENIAL FARMS (1/2)	33-27.02 N 113-14.84 W	01N 010W	01	0018161	31.
MARICOPA	UNNAMED WELL NORTH OF MARY E RANCH	33-31.32 N 113-09.63 W	02N 009W	14	0018173	32.
MARICOPA	UNNAMED WELL NORTHWEST OF AQUA CALIENTE MTS.	33-06.46 N 113-16.43 W	04S 010W	03	0018193	33.3
MARICOPA	UNNAMED WELL NORTHWEST OF SADDLE MT. (2/2)	33-28.71 N 113-06.30 W	02N 008W	32	0018165	33.
MARICOPA	UNNAMED WELL NORTHWEST OF SADDLE MT. (1/2)	33-28.72 N 113-06.58 W	02N 008W	31	0018164	34.
MARICOPA	UNNAMED WELL SE OF AQUA CALIENTE	32-58.0 N 113-18.5 W	05S 010W	20	0018223	33.3
MARICOPA	UNNAMED WELL SE OF DENDORA RANCH (1)	33-02.0 N 113-03.4 W	04S 008W	35	0018215	30.8

PIHA	UNNAMED WELL IN TUCSON AREA (01/11)	16S 015E	30	0018189	31.1	
PIMA	UNNAMED WELL IN TUCSON AREA (02/11)	16S 015E	26	0018188	30.8	
PIMA	UNNAMED WELL IN TUCSON AREA (03/11)	16S 015E	07	0018187	30.3	
PIIA	UNNAMED WELL IN TUCSON AREA (04/11)	17S 014E	03	0018186	31.5	
PIMA	UNNAMED WELL IN TUCSON AREA (05/11)	16S 015E	28	0018185	31.8	
PIHA	UNNAMED WELL IN TUCSON AREA (06/11)	17S 014E	01	0018184	33.5	
PIMA	UNNAMED WELL IN TUCSON AREA (07/11)	15S 011E	11	0018183	34.4	
PIMA	UNNAMED WELL IN TUCSON AREA (08/11)	15S 011E	12	0018182	34.9	
PIMA	UNNAMED WELL IN TUCSON AREA (09/11)	14S 011E	33	0018181	30.4	
PIMA	UNNAMED WELL IN TUCSON AREA (10/11)	14S 011E	27	0018180	30.8	
PIMA	UNNAMED WELL IN TUCSON AREA (11/11)	14S 011E	34	0018179	32.7	
PIMA	UNNAMED WELL NEAR PAPAGO FARMS	31-47.6 N 112-18.0 W	05S 010W	19	0018000	43.7
PIMA	WELL DOMESTIC USE	32-01.054N 110-55.486W	16S 014E	21	0018017	40.6
PIMA	WELL DOMESTIC USE	32-10.955N 110-57.182W	14S 014E	29	0018018	40.6
PIMA	WELL IRRIGATION (NORTH OF IRON BELL RANCH)	32-20.5 N 111-06.1 W	12S 012E	34	0018021	37.8
PIMA	WELL IRRIGATION (NORTH OF JAYNES)	32-18.0 N 111-02.3 W	13S 013E	17	0018019	31.9
PIMA	WELL IRRIGATION (NW OF IRON BELL RANCH)	32-20.7 N 111-06.1 W	12S 012E	34	0018022	31.9
PIMA	WELL IRRIGATION (SOUTH OF RILLITO)	32-24.0 N 111-09.5 W	12S 012E	07	0018023	30.8
PIMA	WELL IRRIGATION (WEST OF IRON BELL RANCH)	32-20.3 N 111-06.2 W	12S 012E	34	0018020	31.9
PIMA	WELL ON PAPAGO INDIAN RESERVATION NEAR PAPAGO FARM	31-47.13 N 112-18.55 W	19S 001E	07	0018002	46.0
PIMA	WELL ON PAPAGO INDIAN RESERVATION NEAR PAPAGO FARM	31-48.00 N 112-17.92 W	19S 001E	05	0018001	47.0
PIHAL	HOT PUMPED WELL (EAST OF COOLIDGE)	32-59.30 N 111-34.50 W	05S 007E	13	0018061	41.1
PIHAL	HOT PUMPED WELL (NORTH OF ELEVEN MILE CORNER-2)	32-54.13 N 111-34.08 W	06S 007E	13	0018066	61.0
PIHAL	HOT PUMPED WELL (NORTH OF ELEVEN MILE CORNER)	32-53.67 N 111-33.50 W	06S 008E	18	0018065	30.0
PIHAL	HOT PUMPED WELL (SOUTH OF COOLIDGE)	32-57.58 N 111-32.00 W	05S 009E	28	0018063	56.8
PIHAL	HOT PUMPED WELL (SOUTH OF COOLIDGE)	32-56.73 N 111-35.40 W	05S 007E	36	0018062	49.5
PIHAL	HOT PUMPED WELL (1)	32-50.2 N 111-35.0 W	04S 007E	01	0018064	55.6
PIHAL	IRRIGATION WELL 1481	32-45. N 111-42. W		0015703	32.4	
PIHAL	WELL (EAST OF PICHACHO MTS.)	32-44.1 N 111-27.1 W	08S 009E	07	0018003	34.4
PIHAL	WELL DOMESTIC		06S 006E	08	0018007	46.1
PIHAL	WELL IRRIGATION	32-59.33 N 111-34.53 W	06S 007E	13	0018006	61.7
PIHAL	WELL IRRIGATION		03S 006E	17	0018010	31.7
PIHAL	WELL IRRIGATION		05S 004E	14	0018009	32.8
PIHAL	WELL IRRIGATION		03S 006E	05	0018016	32.2
PIHAL	WELL IRRIGATION		03S 006E	05	0018015	30.6
PIHAL	WELL IRRIGATION		03S 006E	05	0018014	33.3
PIHAL	WELL IRRIGATION		03S 006E	06	0018013	30.6
PIHAL	WELL IRRIGATION		03S 006E	06	0018012	30.6
PIHAL	WELL IRRIGATION		03S 006E	06	0018011	29.4
PIHAL	WELL IRRIGATION (EAST OF LOOKOUT MTN.)	32-58.2 N 111-36.7 W	05S 007E	23	0018008	46.1
PIHAL	WELL IRRIGATION (EAST OF LOOKOUT MTN.)	32-50.61 N 110-41.53 W	07S 016E	10	0018005	34.4
PIHAL	WELL IRRIGATION (NW OF CHUICU)	32-47.6 N 111-47.6 W	07S 005E	21	0018004	32.2
PINAL	111 RANCH--SAN MANUEL WELL	32-37.75 N 110-33.25 W	09S 017W	24	0015704	31.
SANTA CRUZ	AGUA CALIENTE SPRING	31-41.7 N 110-57.8 W			0001480	32.
SANTA CRUZ	MONKEY SPRING	31-38.2 N 110-42.2 W			0001481	28.
YAVAPAI	ALKALAI SPRING	33-59.53 N 112-22.18 W	08N 001W	33	0000193	31.2
YAVAPAI	CASA ROSA SPRING	33-57.08 N 112-19.26 W	07N 001W	14	0000195	18.9
YAVAPAI	CASTLE HOT SPRINGS	33-59.13 N 112-21.55 W	08N 001W	34	0000194	
YAVAPAI	CASTLE HOT SPRINGS	34-59.13 N 112-21.5 W	08N 001W	34	0002951	46.0
YAVAPAI	CASTLE HOT SPRINGS	33-59.14 N 112-21.59 W	07N 001W	34	0015736	46.
YAVAPAI	CASTLE HOT SPRINGS	34-59.13 N 112-21.58 W	08N 001W	34	0018902	22.3
YAVAPAI	CASTLE HOT SPRINGS	33-58.25 N 112-21.40 W	07N 001W	03	0000190	45.5
YAVAPAI	CHUCK'S WELL	33-59.8 N 112-22.5 W	08N 001W	33	0000188	26.3
YAVAPAI	DOOD WELL	33-59.8 N 112-20.06 W	07N 001W	14	0000197	24.6
YAVAPAI	DRIPPING SPRING					

YAVAPAI	HENDERSON RANCH SPRING	33-59.73	N	112-22.28	W	08N	001W	33	0000192	29.2
YAVAPAI	LAYTON SEEP	33-58.83	N	112-25.57	W	07N	002W	01	0000189	20.6
YAVAPAI	MENUDO SPRING	33-57.13	N	112-20.50	W	07N	001W	14	0000196	21.8
YAVAPAI	MESQUITE DRIP	33-53.3	N	112-22.5	W	07N	001W	33	0000187	23.6
YAVAPAI	TROUT CREEK SPRING	35-02.4	N	113-09.6	W				0000212	27.
YAVAPAI	UNNAMED SPRING	34-04.6	N	111-42.5	W				0001482	37.
YAVAPAI	VERDE HOT SPRINGS	34-59.13	N	111-21.5	W				0002950	36.0
YAVAPAI	VERDE HOT SPRINGS	34-21.32	N	111-42.53	W	11N	006E	03	0018076	40.0
YAVAPAI	WELL AT VERDE HOT SPRINGS	34-21.3	N	111-42.5	W	11N	006E	03	0018176	39.4
YAVAPAI	WINDMILL WELL	33-58.25	N	112-21.40	W	07N	001W	03	0000191	20.5
YUMA	CITRUS VALLEY DEVELOPMENT IRRIGATION WELL	32-41.9	N	113-57.2	W	08S	017W		0015705	39.
YUMA	PUMPED HOT WELL (EAST OF PALOMAS MTS.-2)	33-00.02	N	113-30.57	W	05S	012W	09	0018099	41.6
YUMA	PUMPED HOT WELL (EAST OF PALOMAS MTS.-)	33-00.93	N	113-30.13	W	05S	012W	04	0018097	30.2
YUMA	PUMPED HOT WELL (NORTH OF AUGA CALIENTE MTS.)	33-07.00	N	113-22.42	W	04S	011W	02	0018094	39.5
YUMA	PUMPED HOT WELL (NORTHEAST OF BARAGAN MTS.)	33-07.02	N	113-25.53	W	04S	011W	05	0018095	38.8
YUMA	PUMPED HOT WELL (SOUTH OF BARAGAN MTS.)	33-01.75	N	113-28.57	W	05S	012W	03	0018096	32.2
YUMA	PUMPED WELL (EAST OF PALOMAS MTS.-2)	33-00.4	N	113-30.5	W	05S	012W	09	0018098	38.8
YUMA	RADIUM SPRINGS WELL	33-48.27	N	113-34.28	W	05N	013W	01	0018054	31.1
YUMA	UNNAMED WELL EAST OF AQUA CALIENTE MTNS.	32-44.4	N	114-04.2	W	08S	018W	12	0018047	6 50.
YUMA	UNNAMED WELL EAST OF AZTEC HILLS	33-07.00	N	113-20.40	W	05S	011W	12	0018224	31.1
YUMA	UNNAMED WELL EAST OF BARAGAN MT.	32-46.96	N	113-22.71	W	07S	011W	27	0018208	32.
YUMA	UNNAMED WELL EAST OF PALOMAS MTNS.	33-05.27	N	113-24.49	W	04S	011W	16	0018198	30.
YUMA	UNNAMED WELL EAST OF POLOMAS MT.	33-00.00	N	113-30.55	W	05S	012W	16	0018227	37.2
YUMA	UNNAMED WELL EAST OF WHITE WING RANCH (1)	32-59.15	N	113-30.52	W	05S	012W	21	0018206	44.
YUMA	UNNAMED WELL EAST OF WHITE WING RANCH (2)	32-58.7	N	113-27.0	W	05S	012W	24	0018212	33.2
YUMA	UNNAMED WELL IN MC MULLEN VALLEY	33-51.45	N	113-27.21	W	12N	006W	13	0018192	36.
YUMA	UNNAMED WELL IN MC MULLEN VALLEY	33-51.45	N	113-27.21	W	12N	006W	13	0018191	37.
YUMA	UNNAMED WELL NE OF BARAGAN MTNS.	33-07.00	N	113-25.53	W	04S	011W	05	0018190	37.
YUMA	UNNAMED WELL NE OF WHITE WING RANCH (1)	32-59.2	N	113-27.9	W	05S	012W	14	0018210	33.3
YUMA	UNNAMED WELL NORTH OF AGUA CALIENTE MTS. (1)	33-07.01	N	113-22.42	W	04S	011W	02	0018194	39.
YUMA	UNNAMED WELL NORTH OF AGUA CALIENTE MTS. (3)	33-6.13	N	113-21.41	W	04S	011W	12	0018197	35.
YUMA	UNNAMED WELL NORTH OF AGUA CALIENTE MTS. (2)	33-06.13	N	113-20.86	W	04S	011W	12	0018196	38.
YUMA	UNNAMED WELL NORTH OF AGUA CALIENTE MTS. (6)	33-06.15	N	113-20.37	W	04S	010W	07	0018218	33.9
YUMA	UNNAMED WELL NORTH OF AGUA CALIENTE MTS. (5)	33-07.00	N	113-20.40	W	04S	010W	06	0018217	35.
YUMA	UNNAMED WELL NORTH OF AGUA CALIENTE MTS. (4)	33-01.1	N	113-20.8	W	05S	011W	01	0018202	32.
YUMA	UNNAMED WELL NORTH OF BARAGAN MTN	33-07.00	N	113-25.78	W	04S	011W	06	0018220	37.8
YUMA	UNNAMED WELL NORTH OF HORN (2)	32-58.95	N	113-30.45	W	05S	012W	21	0018228	33.3
YUMA	UNNAMED WELL NORTH OF HORN, ARIZONA	32-56.73	N	113-30.15	W	05S	012W	33	0018207	31.
YUMA	UNNAMED WELL NORTH OF WHITE WING RANCH (4)	32-59.04	N	113-29.54	W	05S	012W	22	0018229	34.4
YUMA	UNNAMED WELL NORTH OF WHITE WING RANCH (3)	32-59.7	N	113-30.0	W	05S	012W	16	0018226	33.1
YUMA	UNNAMED WELL NORTH OF WHITE WING RANCH (2)	32-59.6	N	113-29.9	W	05S	012W	16	0018225	32.8
YUMA	UNNAMED WELL NORTH OF WHITE WING RANCH	32-59.41	N	113-29.29	W	05S	012W	15	0018204	34.
YUMA	UNNAMED WELL NORTHEAST OF BARAGAN MT.	33-07.01	N	113-25.53	W	04S	011W	05	0018195	39.
YUMA	UNNAMED WELL NW OF HORN (1)	32-58.4	N	113-32.5	W	05S	012W	19	0018211	33.3
YUMA	UNNAMED WELL SE OF WHITE WING RANCH (2)	32-57.42	N	113-28.49	W	05S	012W	35	0018231	30.6
YUMA	UNNAMED WELL SOUTH OF BARAGAN MT.	33-00.0	N	113-29.8	W	05S	012W	16	0018205	32.
YUMA	UNNAMED WELL SOUTHEAST OF BARAGAN MT.	33-04.3	N	113-24.0	W	04S	011W	21	0018199	32.
YUMA	UNNAMED WELL SOUTHWEST OF AZTEC, ARIZONA	32-49.3	N	113-27.1	W	07S	012W	13	0018209	33.
YUMA	UNNAMED WELL WEST OF AQUA CALIENTE MTS.	33-00.43	N	113-22.07	W	05S	011W	11	0018203	37.
YUMA	WARM WELL					10N	012W	02	0018036	31.0

APPENDIX B

Index to GEOTHERM sample file for the state of Arizona sorted by county, township (TNS), range (RNG), and section (Sect.) Also given are the name of source, GEOTHERM record identifier, and temperature (Temp. °C). See Table 1 for explanation of alphabetic qualifiers proceeding temperature.

COCHISE	12S	021E	31	WARM SPRINGS (WEST OF WINCHESTER MTS.)	0018101	32.5
COCHISE	12S	023E	31	WELL FOR AGRICULTURAL AND DOMESTIC USE	0018033	54.4
COCHISE	12S	028E	10	PUMPED WELL (NORTH OF BOWIE)	0018104	35.5
COCHISE	12S	028E	34	PUMPED WELL (SOUTH OF BOWIE-2)	0018107	31.0
COCHISE	12S	028E	34	PUMPED WELL (NORTH OF BOWIE-2)	0018106	36.0
COCHISE	13S	021E	06	HOOKE'S HOT SPRINGS	0015694	52.
COCHISE	13S	021E	06	HOOKE'S HOT SPRINGS	0002939	51.5
COCHISE	13S	021E	06	HOOKE'S HOT SPRING	0018102	52.5
COCHISE	13S	024E	05	WELL FOR AGRICULTURAL USE	0018032	47.7
COCHISE	13S	024E	11	WELL IRRIGATION (2)	0018031	40.5
COCHISE	13S	028E	10	PUMPED WELL (SOUTH OF BOWIE)	0018105	36.0
COCHISE	13S	029E	27	WELL IRRIGATION (SE OF BOWIE)	0018030	33.3
COCHISE	13S	030E	36	WELL DOMESTIC (SOUTH OF SAN SIMON)	0018029	41.7
COCHISE	22S	030E	14	PUMPED WELL (EAST OF PEDREGOSA MTN.)	0018048	29.0
COCHISE	23S	030E	36	WINDMILL WELL (WEST OF LAZY J RANCH)	0018049	28.8
COCHISE	24S	030E	14	WARM ARTESIAN WELL	0018050	29.5
COCONINO				BEVERLY WELL	0000211	32.
GILA				UNNAMED WARM SPRINGS (COOLIDGE DAM)	0002940	36.0
GILA	01N	020E	12	WARM SPRINGS	0018060	30.0
GILA	03S	017E	20	MESCAL WARM SPRINGS	0018077	29.1
GILA	13S	018E	17	HOT SPRING (SOUTH OF SAN CARLOS RESERVOIR)	0018078	36.6
GRAHAM				WARM SPRING	0001486	26.
GRAHAM				GRAPEVINE SPRING	0001483	33.
GRAHAM	04S	023E	21	WARM SPRING (NW OF FT. THOMAS)	0018116	31.5
GRAHAM	05S	024E		INDIAN HOT SPRINGS	0015695	48.
GRAHAM	05S	024E	17	WARM SPRING NEAR INDIAN HOT SPRINGS	0018115	33.0
GRAHAM	05S	024E	17	INDIAN HOT SPRING DUG WELL	0018124	47.0
GRAHAM	05S	024E	17	INDIAN HOT SPRING	0018123	46.5
GRAHAM	05S	024E	17	INDIAN HOT SPRINGS	0002941	48.0
GRAHAM	06S	025E	35	MOUNT GRAHAM MINERAL BATH WELL	0015697	45.
GRAHAM	06S	025E	36	MR. GRAHAM MINERAL BATH	0018121	43.5
GRAHAM	07S	025E	01	MT. GRAHAM HOT MINERAL WELL	0002942	42.0
GRAHAM	07S	027E	02	PUMPED HOT WELL (SOUTH OF GILA MTS.)	0018119	37.5
GRAHAM	07S	027E	07	WELL (NORTH OF SOLOMON)	0018028	46.1
GRAHAM	07S	027E	11	PUMPED HOT WELL (NORTH OF BUENA VISTA)	0018120	43.5
GRAHAM	08S	026E		LEBANON MINERAL BATH	0015734	41.
GRAHAM	08S	026E	06	WELL (NORTH OF CACTUS FLAT)	0018027	42.2
GRAHAM	08S	026E	07	UNNAMED WELL SOUTH OF SAFFORD, ARIZONA (4)	0018112	37.0
GRAHAM	08S	026E	07	COLLINS HEALTH SPA(WELL)	0018114	41.5
GRAHAM	08S	026E	07	LUCATS HEALTH SPA(WELL)	0018122	42.0
GRAHAM	08S	026E	07	LEBANON MINERAL BATH(WELL)	0018901	41.5
GRAHAM	08S	026E	07	UNNAMED WELL SOUTH OF SAFFORD, ARIZONA (3)	0018111	34.5
GRAHAM	08S	026E	07	UNNAMED WELL SOUTH OF SAFFORD, ARIZONA (2)	0018110	33.5
GRAHAM	08S	026E	08	HOT ARTESIAN WELL (WEST OF DANK WORTH LAKE-2)	0018086	39.4
GRAHAM	08S	026E	09	UNNAMED WELL SOUTH OF SAFFORD, ARIZONA (1)	0018085	29.4
GRAHAM	08S	026E	09	PUMPED WELL (SOUTH OF SAFFORD-6)	0018084	38.9
GRAHAM	08S	026E	12	UNNAMED WELL SOUTH OF SAFFORD, ARIZONA (5)	0018113	39.0

GRAHAM	08S 026E	09	PUMPED WELL (SOUTH OF SAFFORD-6)	0018084	38.9
GRAHAM	08S 026E	12	UNNAMED WELL SOUTH OF SAFFORD, ARIZONA (5)	0018113	39.0
GRAHAM	08S 026E	20	HOT ARTESIAN WELL (WEST OF DANK WORTH LAKE)	0018059	39.4
GRAHAM	08S 026E	20	UNNAMED WELL SOUTHWEST OF DANKWORTH LAKE	0018117	44.0
GRAHAM	08S 029E	21	CAT TANK WINDMILL	0018080	32.8
GRAHAM	08S 029E	22	ROCK WELL WINDMILL	0018081	30.8
GRAHAM	09S 026E		LUKAT'S SPA WELL	0015696	42.
GRAHAM	09S 026E	05	WINDMILL WELL (EAST OF METATE PEAK)	0018108	33.0
GRAHAM	09S 026E	05	PUMPED HOT WELL (SOUTH OF ARTESIA)	0018109	33.0
GRAHAM	10S 028E	36	HOT PUMPED WELL (EAST OF STARVATION FLAT)	0018083	41.1
GRAHAM	10S 029E	20	PUMPED WELL (SOUTH OF WHITLOCK MTS.)	0018082	34.1
GRAHAM	11S 029E	36	HOWARD WELL	0018103	30.5
GREENLEE			HANNAH HOT SPRING	0000292	54.
GREENLEE	01N 031E		HANNA HOT SPRINGS	0000210	54.
GREENLEE	01N 031E	29	HANNA HOT SPRINGS	0018034	55.5
GREENLEE	04S 028E	35	EAGLE CREEK SPRING (UNNAMED WARM SPRING)	0002947	35.0
GREENLEE	04S 028E	35	SPRING (WEST OF CLIFTON)	0018127	42.0
GREENLEE	04S 030E	18	HOT SPRING NORTH OF CLIFTON	0018035	61.0
GREENLEE	04S 030E	18	HOT SPRING N. OF CLIFTON	0000263	44.0
GREENLEE	04S 030E	18	SPRING (NORTH OF CLIFTON)	0018126	48.0
GREENLEE	04S 030E	19	SEEP	0018128	34.8
GREENLEE	04S 030E	30	CLIFTON HOT SPRINGS	0000265	39.0
GREENLEE	04S 030E	30	CLIFTON HOT SPRINGS	0015698	45.
GREENLEE	04S 030E	30	WELL AT CLIFTON HOT SPRINGS	0018175	48.9
GREENLEE	05S 029E	27	GILLARD HOT SPRINGS	0015699	82.
GREENLEE	05S 029E	27	GILLARD HOT SPRINGS	0000269	82.0
GREENLEE	05S 029E	27	GILLARD HOT SPRING	0018125	82.0
MARICOPA	01N 002W	08	HOT PUMPED WELL (5)	0018042	44.0
MARICOPA	01N 006E	23	BUCKHORN MINERAL BATH WELL	0015701	49.
MARICOPA	01N 006E	23	BUCKHORN MINERAL BATH(WELL)	0018088	48.5
MARICOPA	01N 006E	26	PUMPED HOT WELL (SOUTH OF BUCKHORN)	0018087	38.8
MARICOPA	01N 008W	06	HOT PUMPED WELL (WEST OF SADDLE MTN.)	0018040	33.0
MARICOPA	01N 008W	06	UNNAMED WELL WEST OF SADDLE MTN. (1)	0018151	32.
MARICOPA	01N 008W	07	UNNAMED WELL WEST OF SADDLE MT. (02/10)	0018152	41.
MARICOPA	01N 008W	19	UNNAMED WELL WEST OF SADDLE MT. (03/10)	0018153	30.
MARICOPA	01N 009W	01	UNNAMED WELL WEST OF SADDLE MT. (04/10)	0018154	33.
MARICOPA	01N 009W	06	UNNAMED WELL WEST OF SADDLE MT. (05/10)	0018155	34.
MARICOPA	01N 009W	07	UNNAMED WELL WEST OF SADDLE MT. (06/10)	0018156	34.
MARICOPA	01N 009W	14	UNNAMED WELL WEST OF SADDLE MT. (07/10)	0018157	30.
MARICOPA	01N 009W	17	UNNAMED WELL WEST OF SADDLE MT. (08/10)	0018158	36.
MARICOPA	01N 009W	20	UNNAMED WELL WEST OF SADDLE MT. (09/10)	0018159	32.
MARICOPA	01N 009W	21	UNNAMED WELL (WEST OF SADDLE MTN.-11)	0018143	32.0
MARICOPA	01N 009W	28	UNNAMED WELL WEST OF SADDLE MT. (10/10)	0018160	31.
MARICOPA	01N 010W	01	UNNAMED WELL (EAST OF CENTENIAL FARMS)	0018140	33.0
MARICOPA	01N 010W	01	UNNAMED WELL NEAR CENTENNIAL FARMS (1/2)	0018161	31.
MARICOPA	01N 010W	01	UNNAMED WELL NEAR CENTENNIAL FARMS (2/2)	0018162	36.
MARICOPA	01S 009W	01	UNNAMED WELL SOUTH OF SADDLE MT.	0018174	33.
MARICOPA	02N 001E	02	PUMPED WELL (WEST OF GLENDALE)	0018043	30.0
MARICOPA	02N 001E	02	UNNAMED WELL-WEST OF GLENDALE	0018232	30.
MARICOPA	02N 001E	02	UNNAMED WELL-WEST OF GLENDALE	0018233	30.
MARICOPA	02N 001W	18	UNNAMED WELL (WEST OF LUKE AIR FORCE BASE)	0018234	30.6
MARICOPA	02N 001W	19	UNNAMED WELL (SOUTH OF LUKE AIR FORCE BASE-3)	0018235	31.7
MARICOPA	02N 001W	19	UNNAMED WELL (SOUTH OF LUKE AIR FORCE BASE-2)	0018237	31.1
MARICOPA	02N 001W	19	UNNAMED WELL	0018236	32.2

MARICOPA 02N 001W 30	UNNAMED WELL	0018238	31.1
MARICOPA 02N 001W 30	UNNAMED WELL (SOUTH OF CASEY PARK-2)	0018239	31.1
MARICOPA 02N 001W 31	HOT PUMPED WELL (SE OF MCMICKEN)	0018041	33.0
MARICOPA 02N 002W 01	UNNAMED WELL (EAST OF CITRUS PARK)	0018240	32.2
MARICOPA 02N 002W 11	UNNAMED WELL (SOUTHEAST OF CITRUS PARK)	0018241	30.6
MARICOPA 02N 002W 11	UNNAMED WELL (SOUTHEAST OF CITRUS PARK)	0018242	30.6
MARICOPA 02N 002W 15	UNNAMED WELL (SOUTH OF CITRUS PARK)	0018243	30.0
MARICOPA 02N 002W 24	UNNAMED WELL-SW OF LUKE AIR FORCE BASE	0018245	31.7
MARICOPA 02N 002W 24	UNNAMED WELL-SW OF LUKE AIR FORCE BASE	0018244	31.7
MARICOPA 02N 002W 25	UNNAMED WELL (SE OF MCMICKEN)	0018248	33.3
MARICOPA 02N 002W 25	UNNAMED WELL (SE OF MCMICKEN)	0018247	33.3
MARICOPA 02N 002W 25	UNNAMED WELL (SOUTH OF MCMICKEN)	0018246	84.4
MARICOPA 02N 002W 27	UNNAMED WELL (SW OF MCMICKEN)	0018250	30.6
MARICOPA 02N 002W 27	UNNAMED WELL (SW OF MCMICKEN)	0018249	30.6
MARICOPA 02N 002W 32	HOT PUMPED WELL (NW OF SADDLE MTN.)	0018039	35.0
MARICOPA 02N 002W 36	UNNAMED WELL (SW OF MCMICKEN-2)	0018251	32.2
MARICOPA 02N 004E 02	HOT PUMPED WELL (NORTH OF SCOTTSDALE)	0018038	39.0
MARICOPA 02N 007W 26	PUMPED WELL (SOUTH OF TONOPAH)	0018052	49.4
MARICOPA 02N 007W 26	HOT WELL (TONOPAH)	0002946	50.5
MARICOPA 02N 008W 17	UNNAMED WELL SOUTH OF BURNT MT.	0018163	31.
MARICOPA 02N 008W 31	UNNAMED WELL NORTHWEST OF SADDLE MT. (1/2)	0018164	34.
MARICOPA 02N 008W 32	UNNAMED WELL NORTHWEST OF SADDLE MT. (2/2)	0018165	33.
MARICOPA 02N 009W 09	UNNAMED WELL WEST OF BURNT MT. (2/5)	0018168	34.
MARICOPA 02N 009W 09	UNNAMED WELL WEST OF BURNT MT. (2/5)	0018167	33.
MARICOPA 02N 009W 10	UNNAMED WELL WEST OF BURNT MT. (1/5)	0018166	34.
MARICOPA 02N 009W 10	UNNAMED WELL WEST OF BURNT MT. (3/5)	0018169	33.
MARICOPA 02N 009W 10	UNNAMED WELL WEST OF BURNT MT. (4/5)	0018170	33.
MARICOPA 02N 009W 13	UNNAMED WELL EAST OF BLECHA RANCH (2/2)	0018172	32.
MARICOPA 02N 009W 13	UNNAMED WELL EAST OF BLECHA RANCH (1/2)	0018171	33.
MARICOPA 02N 009W 14	UNNAMED WELL NORTH OF MARY E RANCH	0018173	32.
MARICOPA 02N 009W 14	UNNAMED WELL (NORTH OF MARY E RANCH)	0018130	32.0
MARICOPA 02N 009W 34	PUMPED WELL (NW OF SADDLE MTN.-3)	0018053	40.0
MARICOPA 02S 002W 23	PUMPED WARM WELL (WEST OF SIERRA ESTRELLA)	0018067	31.2
MARICOPA 02S 002W 25	PUMPED WARM WELL (WEST OF SIERRA ESTRELLA-2)	0018068	32.8
MARICOPA 02S 004W 26	PUMPED WELL (NW OF MARICOPA MTS.)	0018090	35.2
MARICOPA 02S 005E 02	WELL IRRIGATION (SOUTH OF CHANDLER)	0018026	33.9
MARICOPA 02S 007W 27	WARM SPRINGS (NORTH OF SIGNAL MTN.)	0018037	35.2
MARICOPA 03N 001W 06	UNNAMED WELL (SW OF BEARDSLEY)	0018252	30.6
MARICOPA 03N 001W 06	UNNAMED WELL (SW OF BEARDSLEY)	0018253	30.6
MARICOPA 03N 002W 01	UNNAMED WELL (SW OF BEARDSLEY-2)	0018254	30.0
MARICOPA 03N 002W 01	UNNAMED WELL (SW OF BEARDSLEY-2)	0018255	30.0
MARICOPA 03N 002W 02	UNNAMED WELL (SW OF BEARDSLEY-3)	0018256	30.0
MARICOPA 03N 002W 02	UNNAMED WELL (SW OF BEARDSLEY-3)	0018257	30.0
MARICOPA 03N 002W 22	UNNAMED WELL (SW OF WADDELL)	0018258	30.0
MARICOPA 03N 002W 25	UNNAMED WELL (NE OF CITRUS PARK)	0018260	32.7
MARICOPA 03N 002W 25	UNNAMED WELL (NE OF CITRUS PARK)	0018259	32.7
MARICOPA 03S 001W 04	PUMPED WARM WELL (WEST OF SIERRA ESTRELLA-3)	0018069	34.5
MARICOPA 03S 001W 34	PUMPED WARM WELL (SW OF SIERRA ESTRELLA)	0018070	29.0
MARICOPA 03S 004W 09	PUMPED WELL (SE OF BUCKEYE HILLS)	0018089	30.0
MARICOPA 03S 004W 15	PUMPED WELL (NW OF MARICOPA MTS.-2)	0018091	28.2
MARICOPA 03S 004W 22	PUMPED WELL (NW OF MARICOPA MTS.-3)	0018093	28.5
MARICOPA 04N 001W 19	UNNAMED WELL (NW OF BEARDSLEY)	0018262	31.1
MARICOPA 04N 001W 19	UNNAMED WELL (NW OF BEARDSLEY)	0018261	31.1
MARICOPA 04N 001W 20	UNNAMED WELL (NW OF BEARDSLEY-3)	0018266	33.3

MARICOPA	04N	001W	20	UNNAMED WELL (NW OF BEARDSLEY-3)	0018265	33.3
MARICOPA	04N	001W	20	UNNAMED WELL (NW OF BEARDSLEY-2)	0018264	32.7
MARICOPA	04N	001W	20	UNNAMED WELL (NW OF BEARDSLEY-2)	0018263	32.7
MARICOPA	04N	001W	28	UNNAMED WELL (NW OF LIZARD ACRES)	0018268	31.1
MARICOPA	04N	001W	28	UNNAMED WELL (NW OF LIZARD ACRES)	0018267	31.1
MARICOPA	04N	001W	29	UNNAMED WELL (NE OF BEARDSLEY)	0018270	32.7
MARICOPA	04N	001W	29	UNNAMED WELL (NE OF BEARDSLEY)	0018269	32.7
MARICOPA	04N	001W	30	UNNAMED WELL (SW OF BEARDSLEY-4)	0018272	31.1
MARICOPA	04N	001W	30	UNNAMED WELL (SW OF BEARDSLEY-4)	0018271	31.1
MARICOPA	04N	002W	26	UNNAMED WELL (SW OF BEARDSLEY)	0018273	30.6
MARICOPA	04S	008W	26	UNNAMED WELL EAST OF DENDORA RANCH (1)	0018213	35.0
MARICOPA	04S	008W	26	UNNAMED WELL EAST OF DENDORA RANCH (1)	0018214	35.0
MARICOPA	04S	008W	35	UNNAMED WELL SE OF DENDORA RANCH (2)	0018216	30.3
MARICOPA	04S	008W	35	UNNAMED WELL SE OF DENDORA RANCH (1)	0018215	30.8
MARICOPA	04S	010W	03	UNNAMED WELL NORTHEAST OF AQUA CALIENTE MTS.	0018193	33.3
MARICOPA	05S	009W	12	UNNAMED WELL SOUTH OF OATMAN MT.	0018200	32.2
MARICOPA	05S	009W	12	UNNAMED WELL SOUTH OF OATMAN MTN	0018221	32.8
MARICOPA	05S	010W	06	HUDSON FARMS, INC. WELL	0015702	45.
MARICOPA	05S	010W	16	PUMPED HOT WELL (EAST OF AUGA CALIENTE MTS.)	0018092	45.8
MARICOPA	05S	010W	19	AQUA CALIENTE SPRINGS WELL	0015700	38.
MARICOPA	05S	010W	19	UNNAMED WELL SOUTH OF AGUA CALIENTE MTS.	0018100	39.
MARICOPA	05S	010W	19	UNNAMED WELL SOUTH OF AQUA CALIENTE MTNS. (2)	0018222	37.2
MARICOPA	05S	010W	20	UNNAMED WELL SE OF AQUA CALIENTE	0018223	33.3
MARICOPA	06S	005W	02	PUMPED WARM WELL (SW OF GILA BEND)	0018046	36.0
MARICOPA	06S	005W	03	PUMPED WARM WELL (EAST OF THEBA)	0018045	37.5
MOHAVE				WARM SPRING NO. 2	0000216	27.
MOHAVE				WARM SPRING NO. 1	0000094	33.
MOHAVE				DUVAL WELL 4-C	0000092	36.
MOHAVE				ANDERSON HOT WELL	0000220	44.5
MOHAVE				KAISER HOT SPRINGS	0000218	37.
MOHAVE				BLAKE WELL	0000095	29.
MOHAVE				OATMAN WARM SPRINGS	0001484	33.
MOHAVE				DUVAL WELL 5-E	0000214	37.
MOHAVE				CALICHE SPRINGS	0000093	26.
MOHAVE	16N	013W	25	COFER HOT SPRING	0018075	32.0
MOHAVE	16N	019W	03	PUMPED WELL (A)	0018058	28.3
MOHAVE	17N	018W	01	PUMPED WELL (EAST OF BLACK MTS.)	0018056	32.2
MOHAVE	17N	018W	36	PUMPED WELL (SE OF BLACK MTS.)	0018057	29.4
MOHAVE	18N	013W	25	WARM SPRING (EAST OF HUALAPAI INDIAN RESERVATIO	0018055	28.3
MOHAVE	21N	018W	20	WELL INDUSTRIAL USE	0018025	37.2
MOHAVE	21N	018W	30	WELL INDUSTRIAL USE	0018024	37.2
MOHAVE	30N	023W	26,	HOT SPRING	0001496	30.
MOHAVE	35N	016W	24	PAKOON SPRINGS	0002948	30.0
MOHAVE	35N	016W	24	PAKOON SPRINGS	0018044	28.0
MOJAVE	30N	023W	10	ONE MILE SPRING	0015735	64.
PIMA				MERCER SPRING	0001487	25.
PIMA				QUITOBAQUITO SPRINGS	0002949	23.0
PIMA	05S	010W	19	UNNAMED WELL NEAR PAPAGO FARMS	0018000	43.7
PIMA	12S	012E	07	WELL IRRIGATION (SOUTH OF RILLITO)	0018023	30.8
PIMA	12S	012E	34	WELL IRRIGATION (NW OF IRON BELL RANCH)	0018022	31.9
PIMA	12S	012E	34	WELL IRRIGATION (WEST OF IRON BELL RANCH)	0018020	31.9
PIMA	12S	012E	34	WELL IRRIGATION (NORTH OF IRON BELL RANCH)	0018021	37.8
PIMA	13S	013E	17	WELL IRRIGATION (NORTH OF JAYNES)	0018019	31.9
PIMA	13S	016E	20	AGUA CALIENTE SPRING	0018079	30.4

PIMA	14S 010E	25	UNNAMED WELL IN AURA VALLEY (2/2)	0018177	32.2
PIMA	14S 011E	27	UNNAMED WELL IN TUCSON AREA (10/11)	0018180	30.8
PIMA	14S 011E	33	UNNAMED WELL IN TUCSON AREA (09/11)	0018181	30.4
PIMA	14S 011E	33	UNNAMED WELL IN AURA VALLEY (1/2)	0018178	30.5
PIMA	14S 011E	34	UNNAMED WELL IN TUCSON AREA (11/11)	0018179	32.
PIMA	14S 014E	29	WELL DOMESTIC USE	0018018	30.7
PIMA	15S 011E	11	UNNAMED WELL IN TUCSON AREA (07/11)	0018183	34.4
PIMA	15S 011E	12	UNNAMED WELL IN TUCSON AREA (08/11)	0018182	34.9
PIMA	16S 014E	21	WELL DOMESTIC USE	0018017	40.6
PIMA	16S 015E	07	UNNAMED WELL IN TUCSON AREA (03/11)	0018187	30.3
PIMA	16S 015E	26	UNNAMED WELL IN TUCSON AREA (02/11)	0018188	30.8
PIMA	16S 015E	28	UNNAMED WELL IN TUCSON AREA (05/11)	0018185	31.8
PIMA	16S 015E	30	UNNAMED WELL IN TUCSON AREA (01/11)	0018189	31.5
PIMA	17S 014E	01	UNNAMED WELL IN TUCSON AREA (06/11)	0018184	33.5
PIMA	17S 014E	03	UNNAMED WELL IN TUCSON AREA (04/11)	0018186	31.5
PIMA	19S 001E	05	WELL ON PAPAGO INDIAN RESERVATION NEAR PAPAGO F	0018001	47.0
PIMA	19S 001E	07	WELL ON PAPAGO INDIAN RESERVATION NEAR PAPAGO F	0018002	46.0
PIMA	21S 016E	03	MONKEY SPRING	0018051	28.3
PINAL			IRRIGATION WELL 1481	0015703	32.
PINAL	03S 006E	05	WELL IRRIGATION	0018016	32.2
PINAL	03S 006E	05	WELL IRRIGATION	0018015	30.6
PINAL	03S 006E	05	WELL IRRIGATION	0018014	33.3
PINAL	03S 006E	06	WELL IRRIGATION	0018013	30.6
PINAL	03S 006E	06	WELL IRRIGATION	0018012	30.6
PINAL	03S 006E	06	WELL IRRIGATION	0018011	29.4
PINAL	03S 006E	17	WELL IRRIGATION	0018010	31.7
PINAL	04S 007E	01	HOT PUMPED WELL (1)	0018064	49.5
PINAL	05S 004E	14	WELL IRRIGATION	0018009	32.8
PINAL	05S 007E	13	HOT PUMPED WELL (EAST OF COOLIDGE)	0018061	41.1
PINAL	05S 007E	23	WELL IRRIGATION	0018008	46.1
PINAL	05S 007E	36	HOT PUMPED WELL (SOUTH OF COOLIDGE)	0018062	55.6
PINAL	05S 008E	28	HOT PUMPED WELL (SOUTH OF COOLIDGE)	0018063	56.8
PINAL	06S 006E	08	WELL DOMESTIC	0018007	46.1
PINAL	06S 007E	13	WELL IRRIGATION	0018006	61.7
PINAL	06S 007E	13	HOT PUMPED WELL (NORTH OF ELEVEN MILE CORNER-2)	0018066	61.0
PINAL	06S 008E	18	HOT PUMPED WELL (NORTH OF ELEVEN MILE CORNER)	0018065	30.0
PINAL	07S 005E	21	WELL IRRIGATION (NW OF CHUICU)	0018004	32.2
PINAL	07S 016E	10	WELL IRRIGATION (EAST OF LOOKOUT MTN.)	0018005	34.4
PINAL	08S 009E	07	WELL (EAST OF PICHACHO MTS.)	0018003	34.4
PINAL	09S 017W	24	111 RANCH--SAN MANUEL WELL	0015704	31.
SANTA CRUZ			MONKEY SPRING	0001481	28.
SANTA CRUZ			AGUA CALIENTE SPRING	0001480	32.
YAVAPAI			TROUT CREEK SPRING	0000212	27.
YAVAPAI			UNNAMED SPRING	0001482	37.
YAVAPAI			VERDE HOT SPRINGS	0002950	36.0
YAVAPAI	07N 001W	03	WINDMILL WELL	0000191	20.5
YAVAPAI	07N 001W	03	CHUCK'S WELL	0000190	22.3
YAVAPAI	07N 001W	14	DRIPPING SPRING	0000197	24.6
YAVAPAI	07N 001W	14	MENUDO SPRING	0000196	21.8
YAVAPAI	07N 001W	14	CASA ROSA SPRING	0000195	18.9
YAVAPAI	07N 001W	33	MESQUITE DRIP	0000187	23.6
YAVAPAI	07N 001W	34	CASTLE HOT SPRINGS	0015736	46.
YAVAPAI	07N 002W	01	LAYTON SEEP	0000189	20.6
YAVAPAI	08N 001W	33	HENDERSON RANCH SPRING	0000192	29.2

YAVAPAI	08N	001W	33	DODD WELL	0000188	26.3
YAVAPAI	08N	001W	33	ALKALAI SPRING	0000193	31.2
YAVAPAI	08N	001W	34	CASTLE HOT SPRINGS	0002951	46.0
YAVAPAI	08N	001W	34	CASTLE HOT SPRINGS	0000194	
YAVAPAI	08N	001W	34	CASTLE HOT SPRINGS	0018902	45.5
YAVAPAI	11N	006E	03	WELL AT VERDE HOT SPRINGS	0018176	39.4
YAVAPAI	11N	006E	03	VERDE HOT SPRINGS	0018076	40.0
YUMA	04S	010W	06	UNNAMED WELL NORTH OF AQUA CALIENTE MTNS. (5)	0018217	35.
YUMA	04S	010W	07	UNNAMED WELL NORTH OF AQUA CALIENTE MTNS. (6)	0018218	33.9
YUMA	04S	011W	02	UNNAMED WELL NORTH OF AGUA CALIENTE MTS. (1)	0018194	39.
YUMA	04S	011W	02	PUMPED HOT WELL (NORTH OF AUGA CALIENTE MTS.)	0018094	39.5
YUMA	04S	011W	05	PUMPED HOT WELL (NORTHEAST OF BARAGAN MTS.)	0018095	38.8
YUMA	04S	011W	05	UNNAMED WELL NE OF BARAGAN MTNS.	0018219	44.4
YUMA	04S	011W	05	UNNAMED WELL NORTHEAST OF BARAGAN MT.	0018195	39.
YUMA	04S	011W	06	UNNAMED WELL NORTH OF BARAGAN MTN	0018220	37.8
YUMA	04S	011W	12	UNNAMED WELL NORTH OF AGUA CALIENTE MTS. (2)	0018196	38.
YUMA	04S	011W	12	UNNAMED WELL NORTH OF AGUA CALIENTE MTS. (3)	0018197	35.
YUMA	04S	011W	16	UNNAMED WELL EAST OF BARAGAN MT.	0018198	30.
YUMA	04S	011W	21	UNNAMED WELL SOUTHEAST OF BARAGAN MT.	0018199	32.
YUMA	05N	013W	01	PUMPED WELL (NE OF SALOME)	0018054	31.1
YUMA	05S	011W	01	UNNAMED WELL NORTH OF AQUA CALIENTE MTS. (4)	0018202	32.
YUMA	05S	011W	11	UNNAMED WELL WEST OF AQUA CALIENTE MTS.	0018203	37.
YUMA	05S	011W	12	UNNAMED WELL EAST OF AQUA CALIENTE MTNS.	0018224	31.1
YUMA	05S	012W	03	PUMPED HOT WELL (SOUTH OF BARAGAN MTS.)	0018096	32.2
YUMA	05S	012W	04	PUMPED HOT WELL (EAST OF PALOMAS MTS.)	0018097	30.2
YUMA	05S	012W	09	PUMPED WELL (EAST OF PALOMAS MTS.-2)	0018098	38.8
YUMA	05S	012W	09	PUMPED HOT WELL (EAST OF PALOMAS MTS.-2)	0018099	41.6
YUMA	05S	012W	14	UNNAMED WELL NE OF WHITE WING RANCH (1)	0018210	33.3
YUMA	05S	012W	15	UNNAMED WELL NORTH OF WHITE WING RANCH	0018204	34.
YUMA	05S	012W	16	UNNAMED WELL EAST OF PALOMAS MTNS.	0018227	37.2
YUMA	05S	012W	16	UNNAMED WELL NORTH OF WHITE WING RANCH (3)	0018226	33.1
YUMA	05S	012W	16	UNNAMED WELL NORTH OF WHITE WING RANCH (2)	0018225	32.8
YUMA	05S	012W	16	UNNAMED WELL SOUTH OF BARAGAN MT.	0018205	32.
YUMA	05S	012W	19	UNNAMED WELL NW OF HORN (1)	0018211	33.3
YUMA	05S	012W	21	UNNAMED WELL EAST OF POLOMAS MT.	0018206	44.
YUMA	05S	012W	21	UNNAMED WELL NORTH OF HORN (2)	0018228	33.3
YUMA	05S	012W	22	UNNAMED WELL NORTH OF WHITE WING RANCH (4)	0018229	34.4
YUMA	05S	012W	24	UNNAMED WELL EAST OF WHITE WING RANCH (1)	0018212	32.2
YUMA	05S	012W	28	UNNAMED WELL EAST OF WHITE WING RANCH (2)	0018230	33.9
YUMA	05S	012W	33	UNNAMED WELL NORTH OF HORN, ARIZONA	0018207	31.
YUMA	05S	012W	35	UNNAMED WELL SE OF WHITE WING RANCH (2)	0018231	30.6
YUMA	07S	011W	27	UNNAMED WELL EAST OF AZTEC HILLS	0018208	32.
YUMA	07S	012W	13	UNNAMED WELL SOUTHWEST OF AZTEC, ARIZONA	0018209	33.
YUMA	08S	017W		CITRUS VALLEY DEVELOPMENT IRRIGATION WELL	0015705	39.
YUMA	08S	018W	12	RADIUM SPRINGS WELL	0018047	G 50.
YUMA	10N	012W	02	WARM WELL	0018036	31.0
YUMA	12N	006W	13	UNNAMED WELL IN MCMULLEN VALLEY	0018190	37.
YUMA	12N	006W	13	UNNAMED WELL IN MCMULLEN VALLEY	0018192	36.
YUMA	12N	006W	13	UNNAMED WELL IN MCMULLEN VALLEY	0018191	37.

APPENDIX C

Index to GEOTHERM sample file for the state of Arizona sorted into one-degree blocks by latitude and longitude. Records are sorted by name of source within each one-degree block. Adjacent one-degree blocks which are published as a 1:250,000 map are combined under the appropriate map name. See Table 1 for explanation of alphabetic qualifiers proceeding temperature. I.D. - GEOTHERM record identifier. Temp. - Temperature °C.

<u>Latitude</u>	<u>Longitude</u>	<u>Name of Source</u>	<u>County</u>	<u>I.D.</u>	<u>Temp.</u>
COORDINATES NOT GIVEN					
		UNNAMED WELL IN AURA VALLEY (1/2)	PIMA	0018178	30.5
		UNNAMED WELL IN AURA VALLEY (2/2)	PIMA	0018177	32.2
		UNNAMED WELL IN TUCSON AREA (01/11)	PIMA	0018189	31.5
		UNNAMED WELL IN TUCSON AREA (02/11)	PIMA	0018188	30.8
		UNNAMED WELL IN TUCSON AREA (03/11)	PIMA	0018187	30.3
		UNNAMED WELL IN TUCSON AREA (04/11)	PIMA	0018186	31.5
		UNNAMED WELL IN TUCSON AREA (05/11)	PIMA	0018185	31.8
		UNNAMED WELL IN TUCSON AREA (06/11)	PIMA	0018184	33.5
		UNNAMED WELL IN TUCSON AREA (07/11)	PIMA	0018183	34.4
		UNNAMED WELL IN TUCSON AREA (08/11)	PIMA	0018182	34.9
		UNNAMED WELL IN TUCSON AREA (09/11)	PIMA	0018181	30.4
		UNNAMED WELL IN TUCSONH AREA (10/11)	PIMA	0018180	30.8
		UNNAMED WELL IN TUCSONH AREA (11/11)	PIMA	0018179	32.
		WARM WELL	YUMA	0018036	31.0
		WELL DOMESTIC	PINAL	0018007	46.1
		WELL IRRIGATION	PINAL	0018010	31.7
		WELL IRRIGATION	PINAL	0018009	32.8
		WELL IRRIGATION	PINAL	0018016	32.2
		WELL IRRIGATION	PINAL	0018015	30.6
		WELL IRRIGATION	PINAL	0018014	33.3
		WELL IRRIGATION	PINAL	0018013	30.6
		WELL IRRIGATION	PINAL	0018012	30.6
		WELL IRRIGATION	PINAL	0018011	29.4
DOUGLAS 1:250,000					
31-30.90	N 109-15.1	W PUMPED WELL (EAST OF PEDREGOSA MTN.)	COCHISE	0018048	29.0
31-20.6	N 109-15.7	W WARM ARTESIAN WELL	COCHISE	0018050	29.5
NOGALES 1:250,000					
31-41.7	N 110-57.8	W AGUA CALIENTE SPRING	SANTA CRUZ	0001480	32.
31-38.2	N 110-42.2	W MONKEY SPRING	SANTA CRUZ	0001481	28.
31-38.03	N 110-42.22	W MONKEY SPRING	PIMA	0018051	28.3
LUKEVILLE 1:250,000					
31-47.6	N 112-18.0	W UNNAMED WELL NEAR PAPAGO FARMS	PIMA	0018000	43.7
31-47.13	N 112-18.55	W WELL ON PAPAGO INDIAN RESERVATION NEAR PAPAGO F	PIMA	0018002	46.0
31-48.00	N 112-17.92	W WELL ON PAPAGO INDIAN RESERVATION NEAR PAPAGO F	PIMA	0018001	47.0
31-56.6	N 113-01.0	W QUITORAQUITO SPRINGS	PIMA	0002949	23.0

SILVER CITY 1:250,000

32-43.7	N 109-22.7	W CAT TANK WINDMILL	GRAHAM	0018080	32.8
32-45.09	N 109-43.20	W COLLINS HEALTH SPA(WELL)	GRAHAM	0018114	41.5
32-58.40	N 109-20.97	W GILLARD HOT SPRING	GREENLEE	0018125	82.0
32-55.40	N 109-20.97	W GILLARD HOT SPRINGS	GREENLEE	0000269	82.0
32-58.40	N 109-20.97	W GILLARD HOT SPRINGS	GREENLEE	0015699	82.
32-43.27	N 109-42.57	W HOT ARTESIAN WELL (WEST OF DANK WORTH LAKE)	GRAHAM	0018059	39.4
32-44.95	N 109-42.65	W HOT ARTESIAN WELL (WEST OF DANK WORTH LAKE-2)	GRAHAM	0018086	39.4
32-31.40	N 109-25.55	W HOT PUMPED WELL (EAST OF STARVATION FLAT)	GRAHAM	0018083	41.1
32-26.33	N 109-20.78	W HOWARD WELL	GRAHAM	0018103	30.5
32-59.93	N 109-53.87	W INDIAN HOT SPRINGS	GRAHAM	0015695	48.
32-59.85	N 109-53.95	W INDIAN HOT SPRINGS	GRAHAM	0002941	48.0
32-45.40	N 109-43.47	W LEBANON MINERAL BATH	GRAHAM	0015734	41.
32-45.47	N 109-43.33	W LEBANON MINERAL BATH(WELL)	GRAHAM	0018901	41.5
32-44.7	N 109-43.0	W LUCAT'S HEALTH SPA(WELL)	GRAHAM	0018122	42.0
32-41.17	N 109-42.50	W LUKAT'S SPA WELL	GRAHAM	0015696	42.
32-52.07	N 109-45.40	W MOUNT GRAHAM MINERAL BATH WELL	GRAHAM	0015697	45.
32-51.73	N 109-44.93	W MR. GRAHAM MINERAL BATH	GRAHAM	0018121	43.5
32-51.274N	109-44.633W	MT. GRAHAM HOT MINERAL WELL	GRAHAM	0002942	42.0
32-50.7	N 109-33.6	W PUMPED HOT WELL (NORTH OF BUENA VISTA)	GRAHAM	0018120	43.5
32-41.1	N 109-42.5	W PUMPED HOT WELL (SOUTH OF ARTESIA)	GRAHAM	0018109	33.0
32-51.3	N 109-33.0	W PUMPED HOT WELL (SOUTH OF GILA MTS.)	GRAHAM	0018119	37.5
32-24.0	N 109-28.9	W PUMPED WELL (NORTH OF BOWIE)	COCHISE	0018104	35.5
32-21.2	N 109-28.20	W PUMPED WELL (NORTH OF BOWIE-2)	COCHISE	0018106	36.0
32-19.1	N 109-29.0	W PUMPED WELL (SOUTH OF BOWIE)	COCHISE	0018105	36.0
32-20.7	N 109-29.0	W PUMPED WELL (SOUTH OF BOWIE-2)	COCHISE	0018107	31.0
32-45.3	N 109-41.6	W PUMPED WELL (SOUTH OF SAFFORD-6)	GRAHAM	0018084	38.9
32-33.0	N 109-23.7	W PUMPED WELL (SOUTH OF WHITLOCK MTS.)	GRAHAM	0018082	34.1
32-43.37	N 109-21.93	W ROCK WELL WINDMILL	GRAHAM	0018081	30.8
32-45.46	N 109-03.98	W UNNAMED WELL SOUTH OF SAFFORD, ARIZONA (5)	GRAHAM	0018113	39.0
32-45.10	N 109-43.40	W UNNAMED WELL SOUTH OF SAFFORD, ARIZONA (4)	GRAHAM	0018112	37.0
32-45.2	N 109-41.7	W UNNAMED WELL SOUTH OF SAFFORD, ARIZONA (1)	GRAHAM	0018085	29.4
32-45.4	N 109-43.6	W UNNAMED WELL SOUTH OF SAFFORD, ARIZONA (3)	GRAHAM	0018111	34.5
32-45.4	N 109-43.8	W UNNAMED WELL SOUTH OF SAFFORD, ARIZONA (2)	GRAHAM	0018110	33.5
32-43.1	N 109-42.5	W UNNAMED WELL SOUTHWEST OF DANKWORTH LAKE	GRAHAM	0018117	44.0
32-45.84	N 109-43.36	W WELL (NORTH OF CACTUS FLAT)	GRAHAM	0018027	42.2
32-50.15	N 109-37.19	W WELL (NORTH OF SOLOMON)	GRAHAM	0018028	46.1
32-14.92	N 109-13.69	W WELL DOMESTIC (SOUTH OF SAN SIMON)	COCHISE	0018029	41.7
32-20.172N	109-55.206W	WELL FOR AGRICULTURAL USE	COCHISE	0018032	47.7
32-16.372N	109-22.257W	WELL IRRIGATION (SE OF BOWIE)	COCHISE	0018030	33.3
32-19.303N	109-51.896W	WELL IRRIGATION (2)	COCHISE	0018031	40.5
32-40.97	N 109-42.33	W WINDMILL WELL (EAST OF METATE PEAK)	GRAHAM	0018108	33.0
32-23.4	N 109-14.7	W WINDMILL WELL (WEST OF LAZY J RANCH)	COCHISE	0018049	28.8

TUCSON 1:250,000

32-16.87	N 110-43.72	W AGUA CALIENTE SPRING	PIMA	0018079	30.4
32-20.2	N 110-14.3	W HOOKER'S HOT SPRING	COCHISE	0018102	52.5
32-20.007N	110-14.306W	HOOKERS HOT SPRINGS	COCHISE	0002939	51.5
32-20.20	N 110-14.27	W HOOKERS HOT SPRINGS	COCHISE	0015694	52.
32-20.2	N 110-42.5	W MERCER SPRING	PIMA	0001487	25.
32-58.9	N 110-22.4	W WARM SPRING	GRAHAM	0001486	26.
32-20.83	N 110-14.38	W WARM SPRINGS (WEST OF WINCHESTER MTS.)	COCHISE	0018101	32.5

32-10.955N 110-57.182W	WELL DOMESTIC USE	PIMA	0018018	30.7
32-01.054N 110-55.486W	WELL DOMESTIC USE	PIMA	0018017	40.6
32-20.72 N 110-02.55	W WELL FOR AGRICULTURAL AND DOMESTIC USE	COCHISE	0018033	54.4
32-50.61 N 110-41.53	W WELL IRRIGATION (EAST OF LOOKOUT MTN.)	PINAL	0018005	34.4
32-37.75 N 110-33.25	W 111 RANCH--SAN MANUEL WELL	PINAL	0015704	31.
32-59.30 N 111-34.50	W HOT PUMPED WELL (EAST OF COOLIDGE)	PINAL	0018061	41.1
32-54.13 N 111-34.08	W HOT PUMPED WELL (NORTH OF ELEVEN MILE CORNER-2)	PINAL	0018066	61.0
32-53.67 N 111-33.50	W HOT PUMPED WELL (NORTH OF ELEVEN MILE CORNER)	PINAL	0018065	30.0
32-57.58 N 111-32.00	W HOT PUMPED WELL (SOUTH OF COOLIDGE)	PINAL	0018063	56.8
32-56.73 N 111-35.40	W HOT PUMPED WELL (SOUTH OF COOLIDGE)	PINAL	0018062	55.6
32-50.2 N 111-35.0	W HOT PUMPED WELL (1)	PINAL	0018064	49.5
32-45. N 111-42.	W IRRIGATION WELL 1481	PINAL	0015703	32.
32-44.1 N 111-27.1	W WELL (EAST OF PICHACHO MTS.)	PINAL	0018003	34.4
32-59.33 N 111-34.53	W WELL IRRIGATION	PINAL	0018006	61.7
32-58.2 N 111-36.7	W WELL IRRIGATION	PINAL	0018008	46.1
32-20.5 N 111-06.1	W WELL IRRIGATION (NORTH OF IRON BELL RANCH)	PIMA	0018021	37.8
32-18.0 N 111-02.3	W WELL IRRIGATION (NORTH OF JAYNES)	PIMA	0018019	31.9
32-47.6 N 111-47.6	W WELL IRRIGATION (NW OF CHUICU)	PINAL	0018004	32.2
32-20.7 N 111-06.1	W WELL IRRIGATION (NW OF IRON BELL RANCH)	PIMA	0018022	31.9
32-24.0 N 111-09.5	W WELL IRRIGATION (SOUTH OF RILLITO)	PIMA	0018023	30.8
32-20.3 N 111-06.2	W WELL IRRIGATION (WEST OF IRON BELL RANCH)	PIMA	0018020	31.9

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32-55.9 N 112-45.1	W PUMPED WARM WELL (EAST OF THEBA)	MARICOPA	0018045	37.5
32-56.2 N 112-44.2	W PUMPED WARM WELL (SW OF GILA BEND)	MARICOPA	0018046	36.0
32-59.14 N 113-19.49	W AQUA CALIENTE SPRINGS WELL	MARICOPA	0015700	38.
32-41.9 N 113-57.2	W CITRUS VALLEY DEVELOPMENT IRRIGATION WELL	YUMA	0015705	39.
32-59.62 N 113-18.28	W PUMPED HOT WELL (EAST OF AUGA CALIENTE MTS.)	MARICOPA	0018092	45.8
32-46.96 N 113-22.71	W UNNAMED WELL EAST OF AZTEC HILLS	YUMA	0018208	32.
32-59.15 N 113-30.52	W UNNAMED WELL EAST OF POLOMAS MT.	YUMA	0018206	44.
32-58.7 N 113-27.0	W UNNAMED WELL EAST OF WHITE WING RANCH (1)	YUMA	0018212	32.2
32-58.2 N 113-29.6	W UNNAMED WELL EAST OF WHITE WING RANCH (2)	YUMA	0018230	33.9
32-59.2 N 113-27.9	W UNNAMED WELL NE OF WHITE WING RANCH (1)	YUMA	0018210	33.3
32-58.95 N 113-30.45	W UNNAMED WELL NORTH OF HORN (2)	YUMA	0018228	33.3
32-56.73 N 113-30.15	W UNNAMED WELL NORTH OF HORN, ARIZONA	YUMA	0018207	31.
32-59.41 N 113-29.29	W UNNAMED WELL NORTH OF WHITE WING RANCH	YUMA	0018204	34.
32-59.04 N 113-29.54	W UNNAMED WELL NORTH OF WHITE WING RANCH (4)	YUMA	0018229	34.4
32-59.7 N 113-30.0	W UNNAMED WELL NORTH OF WHITE WING RANCH (3)	YUMA	0018226	33.1
32-59.6 N 113-29.9	W UNNAMED WELL NORTH OF WHITE WING RANCH (2)	YUMA	0018225	32.8
32-58.4 N 113-32.5	W UNNAMED WELL NW OF HORN (1)	YUMA	0018211	33.3
32-58.0 N 113-18.5	W UNNAMED WELL SE OF AQUA CALIENTE	MARICOPA	0018223	33.3
32-57.42 N 113-28.49	W UNNAMED WELL SE OF WHITE WING RANCH (2)	YUMA	0018231	30.6
32-59.1 N 113-19.4	W UNNAMED WELL SOUTH OF AQUA CALIENTE MTS.	MARICOPA	0018100	39.
32-59.15 N 113-19.40	W UNNAMED WELL SOUTH OF AQUA CALIENTE MTS. (2)	MARICOPA	0018222	37.2
32-49.3 N 113-27.1	W UNNAMED WELL SOUTHWEST OF AZTEC, ARIZONA	YUMA	0018209	33.

EL CENTRO 1:250,000

32-44.4 N 114-04.2	W RADIUM SPRINGS WELL	YUMA	0018047	G 50.
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CLIFTON 1:250,000

33-03.22 N 109-17.70	W CLIFTON HOT SPRINGS	GREENLEE	0015698	45.
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33-03.20 N 109-17.80 W CLIFTON HOT SPRINGS	GREENLEE	0000265	39.0
33-02.75 N 109-26.37 W EAGLE CREEK SPRING (UNNAMED WARM SPRING)	GREENLEE	0002947	35.0
33-00.5 N 109-46.7 W GRAPEVINE SPRING	GRAHAM	0001483	33.
33-24.02 N 109-09.13 W HANNA HOT SPRINGS	GREENLEE	0018034	55.5
33-24.0 N 109-09.1 W HANNA HOT SPRINGS	GREENLEE	0000210	54.
33-24.0 N 109-09.1 W HANNAH HOT SPRING	GREENLEE	0000292	54.
33-04.80 N 109-18.17 W HOT SPRING N. OF CLIFTON	GREENLEE	0000263	44.0
33-04.706N 109-18.156W HOT SPRING NORTH OF CLIFTON	GREENLEE	0018035	61.0
33-00.2 N 109-54.0 W INDIAN HOT SPRING	GRAHAM	0018123	46.5
33-00.1 N 109-54.0 W INDIAN HOT SPRING DUG WELL	GRAHAM	0018124	47.0
33-04.2 N 109-17.9 W SEEP	GREENLEE	0018128	34.8
33-04.80 N 109-18.17 W SPRING (NORTH OF CLIFTON)	GREENLEE	0018126	48.0
33-02.75 N 109-26.37 W SPRING (WEST OF CLIFTON)	GREENLEE	0018127	42.0
33-04.30 N 109-59.00 W WARM SPRING (NW OF FT. THOMAS)	GRAHAM	0018116	31.5
33-00.0 N 109-54.0 W WARM SPRING NEAR INDIAN HOT SPRINGS	GRAHAM	0018115	33.0
33-03.23 N 109-17.75 W WELL AT CLIFTON HOT SPRINGS	GREENLEE	0018175	48.9
MESA 1:250,000			
33-09.95 N 110-31.4 W HOT SPRING (SOUTH OF SAN CARLOS RESERVOIR)	GILA	0018078	36.6
33-09.30 N 110-38.23 W MESCAL WARM SPRINGS	GILA	0018077	29.1
33-09.95 N 110-31.4 W UNNAMED WARM SPRINGS (COOLIDGE DAM)	GILA	0002940	36.0
33-26.40 N 110-12.7 W WARM SPRINGS	GILA	0018060	30.0
33-24.97 N 111-42.12 W BUCKHORN MINERAL BATH WELL	MARICOPA	0015701	49.
33-25.0 N 111-42.2 W BUCKHORN MINERAL BATH(WELL)	MARICOPA	0018088	48.5
33-32.70 N 111-54.80 W HOT PUMPED WELL (NORTH OF SCOTTSDALE)	MARICOPA	0018038	39.0
33-24.05 N 111-42.62 W PUMPED HOT WELL (SOUTH OF BUCKHORN)	MARICOPA	0018087	38.8
33-17.4 N 111-49.342W WELL IRRIGATION (SOUTH OF CHANDLER)	MARICOPA	0018026	33.9
PHOENIX 1:250,000			
33-59.53 N 112-22.18 W ALKALAI SPRING	YAVAPAI	0000193	31.2
33-57.08 N 112-19.26 W CASA ROSA SPRING	YAVAPAI	0000195	18.9
33-59.13 N 112-21.55 W CASTLE HOT SPRINGS	YAVAPAI	0000194	
33-59.14 N 112-21.59 W CASTLE HOT SPRINGS	YAVAPAI	0015736	46.
33-58.25 N 112-21.40 W CHUCK'S WELL	YAVAPAI	0000190	22.3
33-59.8 N 112-22.5 W DODD WELL	YAVAPAI	0000188	26.3
33-57.28 N 112-20.06 W DRIPPING SPRING	YAVAPAI	0000197	24.6
33-59.73 N 112-22.28 W HENDERSON RANCH SPRING	YAVAPAI	0000192	29.2
33-28.70 N 112-24.30 W HOT PUMPED WELL (SE OF MCMICKEN)	MARICOPA	0018041	33.0
33-26.38 N 112-28.71 W HOT PUMPED WELL (5)	MARICOPA	0018042	44.0
33-29.310N 112-56.488W HOT WELL (TONOPAH)	MARICOPA	0002946	50.5
33-58.83 N 112-25.57 W LAYTON SEEP	YAVAPAI	0000189	20.6
33-57.13 N 112-20.50 W MENUDDO SPRING	YAVAPAI	0000196	21.8
33-53.3 N 112-22.5 W MESQUITE DRIP	YAVAPAI	0000187	23.6
33-07.43 N 112-21.30 W PUMPED WARM WELL (SW OF SIERRA ESTRELLA)	MARICOPA	0018070	29.0
33-12.2 N 112-21.9 W PUMPED WARM WELL (WEST OF SIERRA ESTRELLA-3)	MARICOPA	0018069	34.5
33-13.1 N 112-25.5 W PUMPED WARM WELL (WEST OF SIERRA ESTRELLA-2)	MARICOPA	0018068	32.8
33-14.00 N 112-26.58 W PUMPED WARM WELL (WEST OF SIERRA ESTRELLA)	MARICOPA	0018067	31.2
33-13.6 N 112-38.6 W PUMPED WELL (NW OF MARICOPA MTS.-1)	MARICOPA	0018090	35.2
33-09.98 N 112-39.00 W PUMPED WELL (NW OF MARICOPA MTS.-2)	MARICOPA	0018091	28.2
33-08.75 N 112-39.00 W PUMPED WELL (NW OF MARICOPA MTS.-3)	MARICOPA	0018093	28.5
33-10.7 N 112-40.1 W PUMPED WELL (SE OF BUCKEYE HILLS)	MARICOPA	0018089	30.0
33-29.40 N 112-56.67 W PUMPED WELL (SOUTH OF TONOPAH)	MARICOPA	0018052	49.4

33-32.28	N	112-13.22	W	PUMPED WELL (WEST OF GLENDALE)	MARICOPA	0018043	30.0
33-30.05	N	112-24.50	W	UNNAMED WELL	MARICOPA	0018236	32.2
33-33.0	N	112-25.9	W	UNNAMED WELL (EAST OF CITRUS PARK)	MARICOPA	0018240	32.2
33-40.03	N	112-22.63	W	UNNAMED WELL (NE OF BEARDSLEY)	MARICOPA	0018270	32.7
33-40.03	N	112-22.62	W	UNNAMED WELL (NE OF BEARDSLEY)	MARICOPA	0018269	32.7
33-34.85	N	112-25.08	W	UNNAMED WELL (NE OF CITRUS PARK)	MARICOPA	0018260	32.7
33-34.85	N	112-25.08	W	UNNAMED WELL (NE OF CITRUS PARK)	MARICOPA	0018259	32.7
33-40.92	N	112-24.17	W	UNNAMED WELL (NW OF BEARDSLEY)	MARICOPA	0018262	31.1
33-40.92	N	112-24.17	W	UNNAMED WELL (NW OF BEARDSLEY)	MARICOPA	0018261	31.1
33-40.70	N	112-23.60	W	UNNAMED WELL (NW OF BEARDSLEY-2)	MARICOPA	0018264	32.7
33-40.70	N	112-23.60	W	UNNAMED WELL (NW OF BEARDSLEY-2)	MARICOPA	0018263	32.7
33-40.1	N	112-23.4	W	UNNAMED WELL (NW OF BEARDSLEY-3)	MARICOPA	0018265	33.3
33-40.1	N	112-23.4	W	UNNAMED WELL (NW OF BEARDSLEY-3)	MARICOPA	0018266	33.3
33-40.03	N	112-22.08	W	UNNAMED WELL (NW OF LIZARD ACRES)	MARICOPA	0018268	31.1
33-40.03	N	112-22.08	W	UNNAMED WELL (NW OF LIZARD ACRES)	MARICOPA	0018267	31.1
33-29.20	N	112-25.53	W	UNNAMED WELL (SE OF MCMICKEN)	MARICOPA	0018248	33.3
33-29.20	N	112-25.53	W	UNNAMED WELL (SE OF MCMICKEN)	MARICOPA	0018247	33.3
33-23.9	N	112-24.1	W	UNNAMED WELL (SOUTH OF CASEY PARK-2)	MARICOPA	0018239	31.1
33-31.33	N	112-26.62	W	UNNAMED WELL (SOUTH OF CITRUS PARK)	MARICOPA	0018243	30.0
33-30.05	N	112-23.92	W	UNNAMED WELL (SOUTH OF LUKE AIR FORCE BASE-2)	MARICOPA	0018237	31.1
33-30.48	N	112-23.70	W	UNNAMED WELL (SOUTH OF LUKE AIR FORCE BASE-3)	MARICOPA	0018235	31.7
33-29.20	N	112-25.55	W	UNNAMED WELL (SOUTH OF MCMICKEN)	MARICOPA	0018246	84.4
33-32.22	N	112-26.10	W	UNNAMED WELL (SOUTHEAST OF CITRUS PARK)	MARICOPA	0018241	30.6
33-32.22	N	112-26.10	W	UNNAMED WELL (SOUTHEAST OF CITRUS PARK)	MARICOPA	0018242	30.6
33-38.30	N	112-24.15	W	UNNAMED WELL (SW OF BEARDSLEY)	MARICOPA	0018253	30.6
33-38.30	N	112-24.15	W	UNNAMED WELL (SW OF BEARDSLEY)	MARICOPA	0018252	30.6
33-39.22	N	112-25.58	W	UNNAMED WELL (SW OF BEARDSLEY)	MARICOPA	0018273	30.6
33-38.13	N	112-24.57	W	UNNAMED WELL (SW OF BEARDSLEY-2)	MARICOPA	0018254	30.0
33-38.13	N	112-24.57	W	UNNAMED WELL (SW OF BEARDSLEY-2)	MARICOPA	0018255	30.0
33-38.18	N	112-26.12	W	UNNAMED WELL (SW OF BEARDSLEY-3)	MARICOPA	0018256	30.0
33-38.18	N	112-26.12	W	UNNAMED WELL (SW OF BEARDSLEY-3)	MARICOPA	0018257	30.0
33-39.22	N	112-23.94	W	UNNAMED WELL (SW OF BEARDSLEY-4)	MARICOPA	0018272	31.1
33-39.22	N	112-23.94	W	UNNAMED WELL (SW OF BEARDSLEY-4)	MARICOPA	0018271	31.1
33-28.75	N	112-27.62	W	UNNAMED WELL (SW OF MCMICKEN)	MARICOPA	0018250	30.6
33-28.75	N	112-27.62	W	UNNAMED WELL (SW OF MCMICKEN)	MARICOPA	0018249	30.6
33-28.72	N	112-25.55	W	UNNAMED WELL (SW OF MCMICKEN-2)	MARICOPA	0018251	32.2
33-35.68	N	112-26.65	W	UNNAMED WELL (SW OF WADDELL)	MARICOPA	0018258	30.0
33-31.33	N	112-24.50	W	UNNAMED WELL (WEST OF LUKE AIR FORCE BASE)	MARICOPA	0018234	30.6
33-30.03	N	112-25.52	W	UNNAMED WELL-SW OF LUKE AIR FORCE BASE	MARICOPA	0018245	31.7
33-30.03	N	112-25.52	W	UNNAMED WELL-SW OF LUKE AIR FORCE BASE	MARICOPA	0018244	31.7
33-32.18	N	112-13.22	W	UNNAMED WELL-WEST OF GLENDALE	MARICOPA	0018233	30.
33-32.18	N	112-13.22	W	UNNAMED WELL-WEST OF GLENDALE	MARICOPA	0018232	30.
33-13.2	N	112-57.2	W	WARM SPRINGS (NORTH OF SIGNAL MTN.)	MARICOPA	0018037	35.2
33-58.25	N	112-21.40	W	WINDMILL WELL	YAVAPAI	0000191	20.5
33-28.80	N	113-06.33	W	HOT PUMPED WELL (NW OF SADDLE MTN.)	MARICOPA	0018039	35.0
33-27.90	N	113-06.62	W	HOT PUMPED WELL (WEST OF SADDLE MTN.)	MARICOPA	0018040	33.0
33-01.5	N	113-20.0	W	HIDSON FARMS, INC. WELL	MARICOPA	0015702	45.
33-00.02	N	113-30.57	W	PUMPED HOT WELL (EAST OF PALOMAS MTS.-2)	YUMA	0018099	41.6
33-00.93	N	113-30.13	W	PUMPED HOT WELL (EAST OF PALOMAS MTS.)	YUMA	0018097	30.2
33-07.00	N	113-22.42	W	PUMPED HOT WELL (NORTH OF AUGA CALIENTE MTS.)	YUMA	0018094	39.5
33-07.02	N	113-25.53	W	PUMPED HOT WELL (NORTHEAST OF BARAGAN MTS.)	YUMA	0018095	38.8
33-01.75	N	113-28.57	W	PUMPED HOT WELL (SOUTH OF BARAGAN MTS.)	YUMA	0018096	32.2
33-00.4	N	113-30.5	W	PUMPED WELL (EAST OF PALOMAS MTS.-2)	YUMA	0018098	38.8
33-48.27	N	113-34.28	W	PUMPED WELL (NE OF SALOME)	YUMA	0018054	31.1

33-28.30 N 113-10.17 W PUMPED WELL (NW OF SADDLE MTN. -3)	MARICOPA	0018053	40.0
33-26.893N 113-14.627W UNNAMED WELL (EAST OF CENTENIAL FARMS)	MARICOPA	0018140	33.0
33-31.130N 113-09.590W UNNAMED WELL (NORTH OF MARY E RANCH)	MARICOPA	0018130	32.0
33-24.83 N 113-11.70 W UNNAMED WELL (WEST OF SADDLE MTN. -11)	MARICOPA	0018143	32.0
33-07.00 N 113-20.40 W UNNAMED WELL EAST OF AGUA CALIENTE MTS.	YUMA	0018224	31.1
33-05.27 N 113-24.49 W UNNAMED WELL EAST OF BARAGAN MT.	YUMA	0018198	30.
33-31.32 N 113-08.10 W UNNAMED WELL EAST OF BLECHA RANCH (2/2)	MARICOPA	0018172	32.
33-31.32 N 113-08.10 W UNNAMED WELL EAST OF BLECHA RANCH (1/2)	MARICOPA	0018171	33.
33-02.43 N 113-02.80 W UNNAMED WELL EAST OF DENDORA RANCH (1)	MARICOPA	0018213	35.0
33-02.43 N 113-02.80 W UNNAMED WELL EAST OF DENDORA RANCH (1)	MARICOPA	0018214	35.0
33-00.00 N 113-30.55 W UNNAMED WELL EAST OF PALOMAS MTS.	YUMA	0018227	37.2
33-51.45 N 113-27.21 W UNNAMED WELL IN MCMULLEN VALLEY	YUMA	0018190	37.
33-51.45 N 113-27.21 W UNNAMED WELL IN MCMULLEN VALLEY	YUMA	0018192	36.
33-51.45 N 113-27.21 W UNNAMED WELL IN MCMULLEN VALLEY	YUMA	0018191	37.
33-07.00 N 113-25.53 W UNNAMED WELL NE OF BARAGAN MTS.	YUMA	0018219	44.4
33-27.02 N 113-14.84 W UNNAMED WELL NEAR CENTENNIAL FARMS (1/2)	MARICOPA	0018161	31.
33-27.1 N 113-14.0 W UNNAMED WELL NEAR CENTENNIAL FARMS (2/2)	MARICOPA	0018162	36.
33-06.13 N 113-20.86 W UNNAMED WELL NORTH OF AGUA CALIENTE MTS. (2)	YUMA	0018196	38.
33-07.01 N 113-22.42 W UNNAMED WELL NORTH OF AGUA CALIENTE MTS. (1)	YUMA	0018194	39.
33-6.13 N 113-21.41 W UNNAMED WELL NORTH OF AGUA CALIENTE MTS. (3)	YUMA	0018197	35.
33-01.1 N 113-20.8 W UNNAMED WELL NORTH OF AGUA CALIENTE MTS. (4)	YUMA	0018202	32.
33-06.15 N 113-20.37 W UNNAMED WELL NORTH OF AGUA CALIENTE MTS. (6)	YUMA	0018218	33.9
33-07.00 N 113-25.78 W UNNAMED WELL NORTH OF AGUA CALIENTE MTS. (5)	YUMA	0018217	35.
33-07.00 N 113-25.78 W UNNAMED WELL NORTH OF BARAGAN MTN	YUMA	0018220	37.8
33-31.32 N 113-09.63 W UNNAMED WELL NORTH OF MARY E RANCH	MARICOPA	0018173	32.
33-06.46 N 113-16.43 W UNNAMED WELL NORTHEAST OF AGUA CALIENTE MTS.	MARICOPA	0018193	33.3
33-07.01 N 113-25.53 W UNNAMED WELL NORTHEAST OF BARAGAN MT.	YUMA	0018195	39.
33-28.72 N 113-06.58 W UNNAMED WELL NORTHWEST OF SADDLE MT. (1/2)	MARICOPA	0018164	34.
33-28.71 N 113-06.30 W UNNAMED WELL NORTHWEST OF SADDLE MT. (2/2)	MARICOPA	0018165	33.
33-02.0 N 113-03.4 W UNNAMED WELL SE OF DENDORA RANCH (1)	MARICOPA	0018215	30.8
33-01.9 N 113-03.2 W UNNAMED WELL SE OF DENDORA RANCH (2)	MARICOPA	0018216	30.3
33-00.0 N 113-29.8 W UNNAMED WELL SOUTH OF BARAGAN MT.	YUMA	0018205	32.
33-30.92 N 113-06.04 W UNNAMED WELL SOUTH OF BURNT MT.	MARICOPA	0018163	31.
33-00.41 N 113-08.32 W UNNAMED WELL SOUTH OF OATMAN MT.	MARICOPA	0018200	32.2
33-00.41 N 113-08.22 W UNNAMED WELL SOUTH OF OATMAN MTN	MARICOPA	0018221	32.8
33-21.80 N 113-08.49 W UNNAMED WELL SOUTH OF SADDLE MT.	MARICOPA	0018174	33.
33-04.3 N 113-24.0 W UNNAMED WELL SOUTHEAST OF BARAGAN MT.	YUMA	0018199	32.
33-00.43 N 113-22.07 W UNNAMED WELL WEST OF AGUA CALIENTE MTS.	YUMA	0018203	37.
33-32.23 N 113-11.24 W UNNAMED WELL WEST OF BURNT MT. (1/5)	MARICOPA	0018166	34.
33-31.81 N 113-11.25 W UNNAMED WELL WEST OF BURNT MT. (2/5)	MARICOPA	0018167	33.
33-31.81 N 113-11.25 W UNNAMED WELL WEST OF BURNT MT. (2/5)	MARICOPA	0018168	34.
33-32.20 N 113-10.19 W UNNAMED WELL WEST OF BURNT MT. (3/5)	MARICOPA	0018169	33.
33-32.21 N 113-10.69 W UNNAMED WELL WEST OF BURNT MT. (4/5)	MARICOPA	0018170	33.
33-26.54 N 113-07.57 W UNNAMED WELL WEST OF SADDLE MT. (02/10)	MARICOPA	0018152	41.
33-24.85 N 113-07.535W UNNAMED WELL WEST OF SADDLE MT. (03/10)	MARICOPA	0018153	30.
33-27.86 N 113-08.60 W UNNAMED WELL WEST OF SADDLE MT. (04/10)	MARICOPA	0018154	33.
33-27.03 N 113-13.78 W UNNAMED WELL WEST OF SADDLE MT. (05/10)	MARICOPA	0018155	34.
33-26.15 N 113-13.28 W UNNAMED WELL WEST OF SADDLE MT. (06/10)	MARICOPA	0018156	34.
33-25.972N 113-09.618W UNNAMED WELL WEST OF SADDLE MT. (07/10)	MARICOPA	0018157	30.
33-25.66 N 113-12.76 W UNNAMED WELL WEST OF SADDLE MT. (08/10)	MARICOPA	0018158	36.
33-25.22 N 113-12.76 W UNNAMED WELL WEST OF SADDLE MT. (09/10)	MARICOPA	0018159	32.
33-23.55 N 113-11.554W UNNAMED WELL WEST OF SADDLE MT. (10/10)	MARICOPA	0018160	31.
33-27.8 N 113-06.6 W UNNAMED WELL WEST OF SADDLE MTN. (1)	MARICOPA	0018151	32.

HOLBROOK 1:250,000

34-04.6 N 111-42.5 W UNNAMED SPRING
 34-59.13 N 111-21.5 W VERDE HOT SPRINGS
 34-21.32 N 111-42.53 W VERDE HOT SPRINGS
 34-21.3 N 111-42.5 W WELL AT VERDE HOT SPRINGS

YAVAPAI
 YAVAPAI
 YAVAPAI
 YAVAPAI

0001482 37.
 0002950 36.0
 0018076 40.0
 0018176 39.4

PRESCOTT 1:250,000

34-59.13 N 112-21.5 W CASTLE HOT SPRINGS
 34-59.13 N 112-21.58 W CASTLE HOT SPRINGS
 34-40.8 N 113-58.2 W ANDERSON HOT WELL
 34-41.73 N 113-34.39 W COFER HOT SPRING
 34-36.0 N 113-33.0 W KAISER HOT SPRINGS
 34-55.00 N 113-36.60 W WARM SPRING (EAST OF HUALAPAI INDIAN RESERVATION)

YAVAPAI
 YAVAPAI
 MOHAVE
 MOHAVE
 MOHAVE
 MOHAVE

0002951 46.0
 0018902 45.5
 0000220 44.5
 0018075 32.0
 0000218 37.
 0018055 28.3

NEEDLES 1:250,000

34-58.2 N 114-16.2 W CALICHE SPRINGS
 34-53.8 N 114-18.5 W OATMAN WARM SPRINGS
 34-45.80 N 114-20.55 W PUMPED WELL (A)
 34-52.9 N 114-08.6 W PUMPED WELL (EAST OF BLACK MTS.)
 34-48.8 N 114-08.9 W PUMPED WELL (SE OF BLACK MTS.)
 34-54.6 N 114-21.0 W WARM SPRING NO. 1
 34-54.6 N 114-21.0 W WARM SPRING NO. 2

MOHAVE
 MOHAVE
 MOHAVE
 MOHAVE
 MOHAVE
 MOHAVE
 MOHAVE

0000093 26.
 0001484 33.
 0018058 28.3
 0018056 32.2
 0018057 29.4
 0000094 33.
 0000216 27.

WILLIAMS 1:250,000

35-10.2 N 112-49.2 W BEVERLY WELL
 35-10.8 N 113-42.6 W BLAKE WELL
 35-02.4 N 113-09.6 W TROUT CREEK SPRING

COCONINO
 MOHAVE
 YAVAPAI

0000211 32.
 0000095 29.
 0000212 27.

KINGMAN 1:250,000

35-10.8 N 114-16.8 W DUVAL WELL 4-C
 35-10.2 N 114-16.8 W DUVAL WELL 5-E
 35-57.6 N 114-43.5 W HOT SPRING
 35-10.5 N 114-13.1 W WELL INDUSTRIAL USE
 35-11.0 N 114-14.7 W WELL INDUSTRIAL USE

MOHAVE
 MOHAVE
 MOHAVE
 MOHAVE
 MOHAVE

0000092 36.
 0000214 37.
 0001496 30.
 0018025 37.2
 0018024 37.2

GRAND CANYON 1:250,000

36-24.9 N 113-57.4 W PAKOON SPRINGS
 36-24.8 N 113-57.4 W PAKOON SPRINGS

MOHAVE
 MOHAVE

0018044 28.0
 0002948 30.0

LAS VEGAS 1:250,000

36-00.0 N 114-44.3 W ONE MILE SPRING

MOHAVE

0015735 64.

APPENDIX D

Sources for the records in the GEOTHERM sample file for Arizona. Each reference is preceded by its abbreviated form (called CODE) used in the sample file (Table 1). Entries in this computer-generated appendix are sorted by CODE. Those CODES which begin and end with "*" are for references which were unpublished and have entries in this appendix. Unpublished CODES will precede those for published sources.

CODE = BERRY AND OTHERS, 1980

BERRY, G. W., GRIM, P. J., AND IKELMAN, J. A., 1980, THERMAL SPRINGS LIST FOR THE UNITED STATES: NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, KEY TO GEOPHYSICAL RECORDS DOCUMENTATION NO. 12, 56 P.

CODE = BRIGGS, 1969

BRIGGS, P. C., 1969, GROUND-WATER CONDITIONS IN MCMULLEN VALLEY, MARICOPA, YUMA, AND YAVAPAI COUNTIES, ARIZONA: ARIZONA STATE LAND DEPARTMENT WATER RESOURCES REPORT NO. 40, 31 P.

CODE = DENIS, 1971

DENIS, E. E., 1971, GROUND-WATER CONDITIONS IN THE HARQUAHALA PLAINS, MARICOPA AND YUMA COUNTIES, ARIZONA: ARIZONA STATE LAND DEPARTMENT WATER RESOURCES REPORT NO. 45, 44 P.

CODE = DUTT AND MCCREARY, 1970

DUTT, G. R., and MCCREARY, T. W., 1970, THE QUALITY OF ARIZONA'S DOMESTIC, AGRICULTURAL AND INDUSTRIAL WATERS: UNIVERSITY OF ARIZONA, AGRICULTURAL STATION, REPORT 256, 83 P.

CODE = FETH AND HEM, 1963

FETH, J. H. AND HEM, J. D., 1963, RECONNAISSANCE OF HEADWATER SPRINGS IN THE GILA RIVER DRAINAGE BASIN, ARIZONA: U. S. GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1619-H, 52 P.

CODE = GOFF, 1979

GOFF, F. E., 1979, 'WET' GEOTHERMAL POTENTIAL OF THE KINGMAN-WILLAMS REGION, ARIZONA: LOS ALAMOS SCIENTIFIC LABORATORY INFORMAL REPORT LA-7757-MS, 25 P., MAP.

CODE = HEINDL AND COSNER, 1961

HEINDL, L. A., AND COSNER, O. J., 1961, HYDROLOGIC DATA AND DRILLERS LOGS, PAPAGO INDIAN RESERVATION, ARIZONA: ARIZONA STATE LAND DEPARTMENT WATER RESOURCES REPORT NO. 9, 116 P.

CODE = KAM AND OTHERS, 1966

KAM, WILLIAM, SCHUMANN, H. H., KRISER, L. R., AND ARTEAGA, F. E., 1966, BASIC GROUND-WATER DATA FOR WESTERN SALT RIVER VALLEY, MARICOPA COUNTY, ARIZONA: ARIZONA STATE LAND DEPARTMENT WATER RESOURCES REPORT NO. 27, 72 P.

CODE = MARINER AND OTHERS, 1977A

MARINER, R. H., PRESSER, T. S., AND EVANS, W. C., 1977A, CHEMICAL, ISOTOPIC, AND GAS COMPOSITIONS OF SELECTED THERMAL SPRINGS IN ARIZONA, NEW MEXICO, AND UTAH: U.S. GEOLOGICAL SURVEY OPEN-FILE REPORT 77-654, 42 P.

CODE = O'CONNELL AND KAUFMAN, 1976

O'CONNELL, M. F., AND KAUFMAN, R. F., 1976, RADIOACTIVITY ASSOCIATED WITH GEOTHERMAL WATERS IN THE WESTERN UNITED STATES: U.S. ENVIRONMENTAL PROTECTION AGENCY TECHNICAL NOTE ORP/LV-75-8A, 25 P.

CODE = RAMPE AND OTHERS, 1981

RAMPE, J. J., JACKSON, R. D., AND SOMMERFELD, M. R., 1981, PHYSICO-CHEMISTRY OF THE UPPER GILA RIVER WATERSHED: I. SAN FRANCISCO RIVER AND CLIFTON HOT SPRINGS: JOURNAL OF THE ARIZONA-NEVADA ACADEMY OF SCIENCE, VOL. 16, NO. 1, P. 1-6.

CODE = SATKIN AND OTHERS, 1980

SATKIN, R. L., WOHLTZ, K. H., AND SHERIDAN, M. F., 1980, WATER GEO-CHEMISTRY AT CASTLE HOT SPRINGS, ARIZONA: GEOTHERMAL RESOURCES COUNCIL, TRANSACTIONS, VOL. 4, SEPTEMBER, 1980, P. 177-180.

CODE = SWANBERG AND OTHERS, 1977

SWANBERG, C. A., MORGAN, P., STOYER, C. H., AND WITCHER, J. C., 1977, AN APPRAISAL STUDY OF THE GEOTHERMAL RESOURCES OF ARIZONA AND ADJACENT AREAS IN NEW MEXICO AND UTAH AND THEIR VALUE FOR DESALINATION AND OTHER USES: NEW MEXICO ENERGY REPORT NO. 006, 76 P.

CODE = WHITE AND OTHERS, 1966

WHITE, N. D., MATLOCK, W. G., AND SCHWALEN, H. C., 1966, THE GROUND-WATER RESOURCES OF AVRA AND ALTAR VALLEYS, PIMA COUNTY, ARIZONA: ARIZONA STATE LAND DEPARTMENT WATER RESOURCES REPT. NO. 25, 65 P.