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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ARIZONA

Basic data for thermal springs and wells
as recorded in GEOTHERM

USGS-OFR--83-427

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By

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Open-File Report 83-427

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Menlo Park, California

May 1983

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INTRODUCTION

GEOTHERM, 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). GEOTHERM was used to support national geothermal assessments--in 1978 (Muffler, 1979) and 1982 (Reed, 1983). It was however a public system and provided data to both public and private sectors. A detailed discussion on databases in GEOTHERM and a general scheme of how the information system operated can be found in Bliss and Rapport, 1983.

This report on Arizona is one of a series intended to preserve the data collected for GEOTHERM and make the data available to the public. States with significant geochemical data for geothermal fluids will be covered in individual reports such as this. A report will also be issued to cover miscellaneous data collected for sites in the central and eastern United States. The data 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.

GEOTHERM INDEXES

Three computer-generated indexes are found in appendices A, B, and C of this report. The indexes give one line summaries of each GEOTHERM record describing the chemistry of geothermal springs and wells in the sample file for 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, GEOTHERM 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 (°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 (°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-milliequivalents) was computed and added to the record. Many of the numeric fields in the sample file can be directly qualified. The qualifier code precedes the number when appropriate. The codes and their meaning are given in Table 1.

Each thermal spring or well 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.

GEOTHERM 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 GEOTHERM record are also described in greater detail in Appendix D and are listed ahead of published sources.

ACKNOWLEDGEMENTS

Contributions and support to GEOTHERM have been made by many in both federal and state agencies. This includes the U.S. Department of Energy (and associated contractors), and U.S. National Oceanic and Atmospheric Administration. Data-entry forms for most sites in 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, GEOTHERM: the U.S. Geological Survey geothermal information system: Computers & Geosciences, v. 9, no. 1, p. 35-39.
- Duffield, W. A., and Guffanti, Marianne, 1981, The geothermal research program of the U.S. Geological Survey: U.S. Geological Survey Open-File Report 81-564, 108 p.
- Muffler, L. J. P., ed., 1979, Assessment of geothermal resources of the United States--1978: U.S. Geological Survey Circular 790, 163 p.
- Reed, M. J., ed., 1983, Assessment of low-temperature geothermal resources of the United States--1982: U.S. Geological Survey Circular 892.
- Reed, M. J., Mariner, R. H., Brook, C. A., and Sorey, M. L., 1983, Selected data for low-temperature (less than 90°C) geothermal systems in the United States; reference data for U.S. Geological Survey Circular 892: U.S. Geological Survey Open-File Report 83-250, 129 p.
- Swanson, J. R., 1977, GEOTHERM data file: Geothermal Resources Council Transactions, v. 1, p. 285.

TABLE 1

State of 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 SAMPLE FILE

GEOTHERM FILE ID: 0018102

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

WELL/SPRING NUMBER..... 135-21E-05-AA

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 13S 021E 06 NE OF NE
 STATE..... ARIZONA 86M: GILA AND SALT RIVER
 COUNTY..... COCHISE
 GEOLOGIC PROVINCE..

LAT/LONG... 32-20.2 N 110-14.3 W
 UTM ZONE... +12
 NORTHING... 3579113.
 571673.

MAP REFERENCE..... WINCHESTER MTNS. 1162500

OTHER LOCALITY INFORMATION: UNCERTAIN WHICH SPRING SAMPLED.

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

ISOTOPES (0/00)

AG.... L 0.07	CO3.... 27.6	LI... 0.12		
AL.... L 1.10	CH.....	MG... 0.1		
AS.... 0.019				
AU....	CU..... L 0.12	MO... 0.002	SE...	0.002
H.... N	F..... 1.98	NA... 62.7	SI02.	44.48
BA.... L 0.2				
PF....	FE(TOT). 0.16	NB...	S04..	8.1
HI....	GA.....	NH4.. 0.1	SR... L 0.02	
CA.... 1.2	HCO3.... 109.8	NO3.. 0.51		
CA+MG.	HG..... 0.0007			
CU....	H2S.....	PO4.. N		
CL.... 0.4				
CO....	K..... 0.4			

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

REFERENCE AND IDENTIFICATION

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

REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00002

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0002939

NAME OF SAMPLE SOURCE... HOOKERS HOT SPRINGS

WELL/SPRING NUMBER..... 135-21E-06-AAC

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 13S 021E 06 SW OF NE NE
 STATE..... ARIZONA 86M: GILA AND SALT RIVER
 COUNTY..... COCHISE
 GEOLOGIC PROVINCE.. U4

LAT/LONG... 32-20.007N 110-14.306W
 UTM ZONE... +12
 NORTHING... 3577463.
 571675.

MAP REFERENCE..... 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

TOTAL DISSOLVED SOLIDS... 294.

CHARGE IMBALANCE (% DIFF)... 1.0

ANALYSIS IN MG/L

AG....		CO3.....	LI... 0.11	S....	
AL.... 0.035		CR.....	MG... L 0.1	SH...	
AS....		CS..... L 0.1	MN... L 0.02		
AU....		CU..... L 0.01			
H.... 0.03		F..... 2.0	NA... 68.	SI02. 46.	
HE....		FE(TOT). L 0.02	NH...	SO4.. 3.	
HR....		GE.....	NI... L 0.02		
CA.... 1.0		HCO3... 170.			
CA+MG.		HG..... L 0.0001			
CL.... 4.0					
CO....		K..... 0.5	RB... L 0.02	ZN... L 0.01	

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH4.. L 0.1

C2H6.

CO2.. L 0.1

ISOTOPES (00/00)

DEL D OF WATER..... -83.7
DEL O(18) OF WATER... -11.77

ISOTOPES (00/00)

N2... 92.

REFERENCE AND IDENTIFICATION

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

RECORD 00003

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... HOOKERS HOT SPRINGS

GEO THERM FILE ID: 0015694

LOCATION

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

TOWNSHIP-RANGE

13S 02E 06 NE OF NE

COORDINATES

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

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1974/11/20

TEMPERATURE (C)..... 52.

OTHER SAMPLE INFORMATION.. USED TO WATER STOCK.

MAJOR ANALYSIS

PH..... 8.6

RADIATION ANALYSIS

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

MONITOR 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....	0.031 +/-	0.029
Ra-210....		TH-232....	0.034 +/-	0.028
RA-226.... 0.1 +/-	0.059	U-234....	10. +/-	0.8
RA-228....		U-238....	3.8 +/-	0.33
RN-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

GEOTERM SAMPLE FILE

GEOTERM FILE 101 0018048

NAME OF SAMPLE SOURCE... PUMPED WELL (EAST OF PEDREGOSA MTN.)

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 22S 030E 14 NE OF SE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... COCHISE

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

GEOLOGIC PROVINCE..
 MAP REFERENCE..... PEDREGOSA MOUNTAINS 1162500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 29.0

WATER ANALYSIS

PH..... 7.82
 ALKALINITY..... 203.8 AS HCO3
 TOTAL DISSOLVED SOLIDS... 244.
 CHARGE IMBALANCE (% DIFF)... 0.8

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO3.... N	LI...	0.01		
AL....	CR.....	MG...	13.8		
AS.... 0.015					
AU....	CU.....	MO...		SE... 0.001	
H.... N	F..... 0.48	NA...	34.5	SI02.. 71.5	
HE....	FE(TOT).. 0.42	NB...		S04.. 6.7	
HI....	GA.....	NH4..		SR... L 0.01	
CA.... 15.6	HCO3.... 203.8	NO3..	8.65		
CU....	H2S..... L 0.3	PO4..	0.03		
CL.... 5.0					
CO....	K..... 7.8	ZN...	0.06		

QUALIFICATION FIELD..... NO3 EQUALS NO2 + NO3. 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 00005

GEOTERM SAMPLE FILE

GEOTERM FILE 101 0018104

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

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 12S 028E 10 SW OF SW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... COCHISE
 GEOLOGIC PROVINCE.. 04

LAT/LONG... 32-24.0 N 109-28.9 W
 UTM ZONE... +12
 NORTHING... 3585549.
 642799.

MAP REFERENCE..... BOWIE 1162500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 35.5

WATER ANALYSIS

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

ANALYSIS IN PPM

ISOTOPIES (0/00)

AG....		CO3.....	N				
AL....		CR.....		MG...	0.4		
H.....	0.14	F.....	2.17	NA...	204.3	SI02.	29.57
HE.....		FE(TOT)...	0.14	NB...		S04..	120.6
CA.....	26.2	HCO3.....	117.1				
CO.....		H2S.....		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

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018106

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

WELL/SPRING NUMBER..... 12S-28E-34-AA

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	12S 028E 34	NE OF NE
STATE.....	ARIZONA	B&M: GILA AND SALT RIVER	
COUNTY.....	COCHISE		
GEOLOGIC PROVINCE..	04		

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

MAP REFERENCE..... BOWIE 1162500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 36.0
 WATER ANALYSIS

PH..... 8.65
 TOTAL DISSOLVED SOLIDS... 392.
 CHARGE IMBALANCE (% DIFF)... 6.2

ANALYSIS IN PPM

ISOTOPIES (0/00)

AG....	L 0.07	CO3.....	6.0	LI...	0.17		
AL....	L 1.1	CR.....		MG...	0.2		
AS....	0.007						
AU....		CU.....	L 0.12	MO...		SE...	0.005
H.....	0.04	F.....	1.02	NA...	112.6	SI02.	30.68
HA....	L 0.02						
HE.....		FE(TOT)...	L 0.11	NB...		S04..	112.9
HI....		GA.....		NH4..	L 0.05	SR...	0.03
CA.....	7.6	HCO3.....	83.	N03..	2.04		
CA+MG.		HG.....	0.0006				
CO.....		H2S.....		P04..	N		
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

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018105

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

WELL/SPRING NUMBER..... 13S-28E-10-BC

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	13S 028E 10	SW OF NW
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LAT/LONG...	32-19.1	N 109-29.0 W
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STATE..... ARIZONA B&M: GILA AND SALT RIVER UTM ZONE... +12
 COUNTY..... COCHISE NORTHING... J576543.
 GEOLOGIC PROVINCE.. 04 642770.
 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.... CO3.... N
 AL.... CR.....
 H.... 0.02 F..... 0.11 MG... 2.1
 HE.... FE(TOT). L 0.11 NA... 49.4 SI02. 26.08
 CA.... 23.2 HCO3.... 117.1 NB... SO4.. 56.7
 CO.... H2S.....
 CL.... 26.9 PU4.. N
 CO.... K..... 2.7
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00008

 GEOTHERM SAMPLE FILE GEOTHERM FILE ID: 0018107
 NAME OF SAMPLE SOURCE... PUMPED WELL (SOUTH OF BOWIE-2)
 WELL/SPRING NUMBER..... 125-28E-34-CB
 LOCATION TOWNSHIP-RANGE COORDINATES
 COUNTRY..... UNITED STATES 12S 028E 34 NW OF SW LAT/LONG... 32-20.7 N 109-29.0 W
 STATE..... ARIZONA B&M: GILA AND SALT RIVER UTM ZONE... +12
 COUNTY..... COCHISE NORTHING... 3579499.
 GEOLOGIC PROVINCE.. 04 642729.
 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.... CO3.... N
 AL.... CR.....
 H.... 0.02 F..... 0.3 MG... 1.9
 HE.... FE(TOT). L 0.11 NA... 55.1 SI02. 30.68
 CA.... 22.2 HCO3.... 98.8 NB... SO4.. 61.
 CO.... H2S.....
 CL.... 35.1 PU4.. N
 CO.... K..... 2.0
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00009

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018050

NAME OF SAMPLE SOURCE... WARM ARTESIAN WELL

WELL/SPRING NUMBER..... 24S-30E-14-B

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 24S 030E 14 NW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... COCHISE
 GEOLOGIC PROVINCE.. 04

LAT/LONG... 31-20.6 N 109-15.7 W
 UTM ZONE... 12
 NORTHING... 3468773.
 665369.

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

ISOTOPES (0/00)

AG....		CO3.....	19.2				
AL....		CR.....		MG...	16.		
R.....	0.2	F.....	0.4	NA...	59.8	SI02..	38.5
HF....		FE(TOT)..	0.16	NB...		S04..	6.7
CA....	20.8	HCO3....	235.5				
CD....		H2S.....		P04..	0.03		
CL....	8.1						
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 00010

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018101

NAME OF SAMPLE SOURCE... WARM SPRINGS (WEST OF WINCHESTER MTS.)

WELL/SPRING NUMBER..... 12S-21E-31-ACD

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 12S 021E 31 SE OF SW NE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... COCHISE
 GEOLOGIC PROVINCE.. 04

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

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

ISOTOPES (0/00)

AG....		CO3.....	24.				
AL....		CR.....		MG...	0.006		
R.....	4	F.....	1.27	NA...	55.4	SI02..	38.79
HF....		FE(TOT)..	0.16	NB...		S04..	5.8

CA.... 1.4 HCO3.... 107.4
 CD.... H2S.... PO4.. N
 CL.... 0.4
 CU.... K.... 0.4

REFERENCE AND IDENTIFICATION

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

RECORD 00011

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0018029

NAME OF SAMPLE SOURCE... WELL DOMESTIC (SOUTH OF SAN SIMON)

WELL/SPRING NUMBER..... 135-30E-36-DDD

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 13S 030E 36 SE OF SE SE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... COCHISE
 GEOLOGIC PROVINCE..

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

MAP REFERENCE..... SAN SIMON 1162500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1966/10/22

TEMPERATURE (C)..... 41.7

WELL DEPTH (M)..... 610.

WATER ANALYSIS

PH..... 9.3

SPECIFIC CONDUCTANCE..... 0.9

CHARGE IMBALANCE (% DIFF)... 0.9

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO3....	7.	LI...	0.146		
AL....	CR....	0.02	MG...	1.		
AS....	CS....		MN...	N		
AU....	CU....	0.0110				
B....	F....	18.	NA...	212.	SI02.	32.
BE....	FE(TOT)...	0.025	NB...		S04..	188.
BI....	GA....		NH4..		SR...	0.136
BR....	GE....		NI...	N		
CA....	HCO3....	113.	NO3..	2.		
CA+MG.	HG....		PB...	N		
CD.... N						
CL....						
CO....	K....	0.1				
			ZN...	0.008		

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.

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

REFERENCE..... DUTT AND MCCREARY, 1970

RECORD 00012

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0018033

NAME OF SAMPLE SOURCE... WELL FOR AGRICULTURAL AND DOMESTIC USE

WELL/SPRING NUMBER..... 125-2JE-31-C8A

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 12S 023E 31 NE OF NW SW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... COCHISE

LAT/LONG... 32-20.72 N 110-02.55 W
 UTM ZONE... +12
 NORTHING... 3586369.

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..... 9.3
 SPECIFIC CONDUCTANCE..... 500.
 CHARGE IMBALANCE (% DIFF).... 5.3

ANALYSIS IN PPM

AG....	CO3....	24.	LI...	0.002	
AL....	CR.....		MG...	N	
BA....	F.....	12.	NA...	110.	SI02. N
BR....	FE(TOT)...		NB...		S04.. 70.
CA....	HCO3....	112.	NO3..	1.	
CL....					
CU....	K.....	0.9			

ISOTOPES (U/D/L)

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 00013

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... WELL FOR AGRICULTURAL USE

WELL/SPRING NUMBER..... 135-24E-05-BA

LOCATION

COUNTRY..... UNITED STATES 135 024E 05 NE OF NW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 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..... 9.3
 SPECIFIC CONDUCTANCE..... 500.
 CHARGE IMBALANCE (% DIFF).... 3.5

ANALYSIS IN PPM

AG....	CO3....	17.	LI...	0.001	
AL....	CR.....		MG...	N	
BA....	F.....	18.	NA...	138.	SI02. N
BR....	FE(TOT)...		NB...		S04.. 110.
CA....	HCO3....	127.	NO3..	2.	
CL....					
CU....	K.....	2.			

ISOTOPES (U/D/L)

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

REFERENCE AND IDENTIFICATION

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

GEO THERM FILE 101 0018032

COORDINATES

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

REFERENCE..... DUTT AND MCCREARY, 1970

RECORD 00014

GEOHEM SAMPLE FILE

GEOHEM FILE ID: 0018030

NAME OF SAMPLE SOURCE... WELL IRRIGATION (SE OF BOWIE)

WELL/SPRING NUMBER..... 13S-29E-27-ACC

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 13S 029E 27 SW OF SW NE

LAT/LONG... 32-16.372N 109-22.257W

STATE..... ARIZONA 86M: GILA AND SALT RIVER

UTM ZONE... 12

COUNTY..... COCHISE

NORTHING... 3571658.

GEOLOGIC PROVINCE..

65J427.

MAP REFERENCE..... BOWIE 1124000

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

ISOTOPES (0/00)

AG..... CO3..... N LI... 0.081

AL..... CR..... 0.003 MG... 2.

AS..... CS..... MN... N

H..... 0.02 F..... 2.8 NA... 113. S102. 23.

RE..... FE(TOT)... 0.008 NB... S04.. 76.

RI..... GA..... NH4.. SR... N

HR..... GE..... NI... N

CA..... 14. HCO3.... 210. NO3.. 1.

CA+MG. HG..... PB... N

CO..... N

CL..... 24.

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

RECORD 00015

GEOHEM SAMPLE FILE

GEOHEM FILE ID: 0018031

NAME OF SAMPLE SOURCE... WELL IRRIGATION (2)

WELL/SPRING NUMBER..... 13S-24E-11-AB

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 13S 024E 11 NW OF NE

LAT/LONG... 32-19.303N 109-51.896W

STATE..... ARIZONA 86M: GILA AND SALT RIVER

UTM ZONE... 12

COUNTY..... COCHISE

NORTHING... 3576474.

GEOLOGIC PROVINCE.. 04

606842.

MAP REFERENCE..... WILCOX 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1966/07/15

TEMPERATURE (C)..... 40.5

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

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

WATER ANALYSIS

PH..... 9.4

SPECIFIC CONDUCTANCE..... 0.5

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO3.....	19.	LI....	0.002	
AL....	CR.....		MG....	N	
B..... 0.62	F.....	10.	NA....	106.	SI02.. N
BF....	FE(TOT)...		NB....		S04.. 60.
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

GEOTERM SAMPLE FILE

GEOTHERM FILE 101 0018049

NAME OF SAMPLE SOURCE... WINDMILL WELL (WEST OF LAZY J RANCH)

WELL/SPRING NUMBER..... 235-30E-36-B

LOCATION

TOWNSHIP-RANGECOORDINATES

COUNTRY.....	UNITED STATES	23S 030E 36	NW
STATE.....	ARIZONA	B&M: GILA AND SALT RIVER	
COUNTY.....	COCHISE		
GEOLOGIC PROVINCE..	04		

LAT/LONG...	32-23.4	N 109-14.7	W
UTM ZONE...	*12		
NORTHING...	3473971.		
66687J.			

MAP REFERENCE..... GUADALUPE CANYON 1162500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 28.8

WATER ANALYSIS

PH..... 7.38

ALKALINITY..... 1108. AS HCO3

TOTAL DISSOLVED SOLIDS... 1088.

CHARGE IMBALANCE (% DIFF)... 4.1

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO3.....	N		
AL....	CR.....		MG....	36.1
B..... 0.31	F.....	2.94	NA....	251.7
BF....	FE(TOT)...	L 0.1	NB....	
CA.... 71.3	HCO3.....	1108.	SI02..	37.5
CD....	H2S.....		S04..	13.4
CL.... 19.8			PO4..	0.03
CO....	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

GEOTERM SAMPLE FILE

GEOTHERM FILE 101 0000211

NAME OF SAMPLE SOURCE... BEVERLY WELL

LOCATION

TOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES
 STATE..... ARIZONA 8&M: GILA AND SALT RIVER
 COUNTY..... COCONINO
 MAP REFERENCE..... TURKEY CANYON 1124000

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

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTION..... 1978/08
 TEMPERATURE (C)..... 32.

WATER ANALYSIS

DATE/ANALYST..... L/MIN

PH..... 6.5

CHARGE IMBALANCE (% DIFF).... 7.4

ANALYSIS IN MG/L

ISOTOPES (0/00)

AL....	CR.....	MG...	18.		
R.... 0.37	F..... 0.27	NA...	15.	SI02.	25.
FE....	FE(TOT)...	NH...		S04..	12.
CA.... 35.	HCO3.... 180.				
CL.... 16.					
CO....	K..... 2.6				

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R. H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GOFF, 1979

RECORD 00018

GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0018078

NAME OF SAMPLE SOURCE... HOT SPRING (SOUTH OF SAN CARLOS RESERVOIR)
 WELL/SPRING NUMBER..... 135-18E-17-CD

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 135 018E 17 SE OF SW
 STATE..... ARIZONA 8&M: GILA AND SALT RIVER
 COUNTY..... GILA
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... COOLIDGE DAM 1124000

LAT/LONG... 33-09.95 N 110-31.4 W
 UTM ZONE... +12
 NORTHING... 3670226.
 543977.

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

ISOTOPES (0/00)

ANALYSIS IN PPM

AG.... L 0.06	CO3.... N	LI...	1.85		
AL.... 4.0	CR.....	MG...	29.		
AS.... 0.031					
AU....	CU..... L 0.1	MO...		SE...	0.018
H.... 1.26	F..... 3.36	NA...	519.8	SI02.	47.81
HA.... 0.4					
HE....	FE(TOT) L 0.15	NH...		S04..	50.4
HI....	GA.....	NH4..		SR...	1.54
CA.... 124.4	HCO3.... 331.9	NO3..	2.04		
CA+MG.	HG..... 0.0002				
CU....	H2S.....	PO4..	0.06		
CL.... 908.4					
CO....	K..... 30.9				
		ZN...	L 0.02		

QUALIFIED 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

GEOTERM SAMPLE FILE

GEOTHERM FILE ID: 0018077

NAME OF SAMPLE SOURCE... MESCAL WARM SPRINGS

WELL/SPRING NUMBER..... 03S-17E-20-CBC

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 03S 017E 20 SW OF NW SW

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

COUNTY..... GILA

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... MESCAL WARM SPRING 1124000

LAT/LONG... 33-09.30 N 110-38.23 W

UTM ZONE... +12

NORTHING... 3668338.

533882.

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

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.

CO....

CL.... 15.6

CO....

CO3.... N

CR.....

CU.... L 0.1

F.... 0.25

FE+3....

FE (TOT). L 0.15

GA....

HCO3.... 245.2

HG.... L 0.0002

H2S....

LI... L 0.014

MG... 19.2

MO...

NA... 14.7

NA+K.

NB...

NH4...

NO3... 5.21

PU4.. N

ZN... L 0.02

ISOTOPIES (0/00)

SE... L 0.002

SI02. 21.39

SN... L 0.05

S04.. 8.1

SR... 0.05

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

RECORD 00020

GEOTERM SAMPLE FILE

GEOTHERM FILE ID: 0002940

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

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... GILA

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... COOLIDGE DAM 1124000

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

UTM ZONE... +12

NORTHING... 3669669.

543513.

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

PH..... 6.81
 ALKALINITY..... 326. AS HCO3
 TOTAL DISSOLVED SOLIDS... 2687.
 CHARGE IMBALANCE (% DIFF)... 0.0

ANALYSIS IN MG/L

AG....	CO3.....	LI... 1.6	S....
AL.... L 0.001	CH.....	MG... 33.	SR...
AS....	CS..... 0.1	MN... L 0.02	
AU....	CU..... L 0.01		
H.... 1.0	F..... 3.3	NA... 720.	SI02. 45.
HE....	FE(TOT). L 0.02	NH...	S04.. 420.
HR....	GE.....	NI... L 0.02	
CA.... 140.	HCO3.... 326.		
CL.... 980.			
CO....	K..... 25.	Rb... 0.24	ZN... L 0.01

ISOTOPIES (0/001)

DEL D OF WATER..... -79.3
 DEL D(18) OF WATER... -10.75

REFERENCE AND IDENTIFICATION

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

RECORD 00021

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... WARM SPRINGS

GEOTHERM FILE ID: 0018060

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

LOCATION

COUNTRY..... UNITED STATES 01N 020E 12
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... GILA
 GEOLOGIC PROVINCE.. 04

COORDINATES

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

MAP REFERENCE..... BRONCO GULCH 1124000

OTHER LOCALITY INFORMATION: UNCERTAIN WHICH SPRING SAMPLED.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 30.0

WATER ANALYSIS

PH..... 7.67
 ALKALINITY..... 245.3 AS HCO3
 TOTAL DISSOLVED SOLIDS... 748.
 CHARGE IMBALANCE (% DIFF)... 2.0

ANALYSIS IN PPM

AG....	CO3..... N		
AL....	CR.....	MG... 20.5	
H.... 0.14	F..... 0.24	NA... 157.5	SI02. 54.34
HE....	FE(TOT). L 0.15	NH...	S04.. 7.2
CA.... 43.3	HCO3.... 245.3		
CD....	H2S.....	PO4.. 0.03	
CL.... 244.2			
CO....	K..... 6.2		

ISOTOPIES (0/001)

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 00022

GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0018080

NAME OF SAMPLE SOURCE... CAT TANK WINDMILL

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 08S 029E 21 NW OF NE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE.. 04

LAT/LONG... 32-43.7 N 109-22.7 W
 UTM ZONE... +12
 NORTHING... 3630643.
 651833.

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

ISOTOPE (O/001)

AG....		CO3.....	13.				
AL....		CR.....		MG...	0.5		
BA....	0.44	F.....	8.3	NA...	332.	SI02.	59.
BE....		FE(TOT). L	0.15	NB...		S04...	269.
CA....	5.4	HCO3.....	194.				
CI....		H2S.....		PO4..	0 0.06		
CL....	190.						
CO....		K.....	5.1				

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 SAMPLE FILE

GEOTHERM FILE 101 0018114

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

WELL/SPRING NUMBER..... 08S-26E-07-DAA

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 08S 026E 07 NE OF NE SE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE.. 04

LAT/LONG... 32-45.09 N 109-43.20 W
 UTM ZONE... +12
 NORTHING... 3624107.
 619915.

MAP REFERENCE..... SAFFORD 1162500

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

ISOTOPE (O/001)

AG....		CO3.....	2.4				
AL....		CR.....		MG...	0.5		
BA....	1.04	F.....	9.6	NA...	677.7	SI02.	27.58

HE.... FE(TOT). L 0.11 NB... S04.. 368.8
 CA.... 22. HCO3.... 40.3
 CO.... H2S.... PO4.. 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

GEOTHERM FILE 101 0001483

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... FORT THOMAS 1162500

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

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 33.

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R
 COMPILER AFFILIATION... USGS
 REFERENCE..... BERRY AND OTHERS, 1980

RECORD 00025

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... HOT ARTESIAN WELL (WEST OF DANK WORTH LAKE)

GEOTHERM FILE 101 0018059

WELL/SPRING NUMBER..... 085-26E-20-CAC

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 085 026E 20 SW OF NW SW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... ARTESIA 1124000

LAT/LONG... J2-43.27 N 109-42.57 W

UTM ZONE... 12

NORTHING... J620796.

621205.

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 39.4

WATER ANALYSIS

PH..... 8.8
 TOTAL DISSOLVED SOLIDS... 816.
 CHARGE IMBALANCE (3 DIFF)... 3.1

ANALYSIS IN PPM

AG.... CO3.... 9.0
 AL.... CR....
 H.... 0.84 F.... 14.54 MG... 0.1
 HE.... FE(TOT). L 0.1 NA... 303.5 S102. 28.
 CA.... 7.2 HCO3.... 86. NB... S04.. 203.2
 CO.... H2S.... PO4.. 0.06
 CL.... 259.5
 CO.... K..... 1.2

ISOTOPES (0/00)

QUALIFICATION FIELD..... PO4 CALCULATED FROM P.

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.

GEOTHEM FILE ID: 0018086

RECORD 00027

GEUTHEM FILE ID: 0018083

P I..... 8.32
 ALKALINITY..... 191.6 AS HCUJ

TOTAL DISSOLVED SOLIDS... 960.

CHARGE IMBALANCE (% DIFF)... 3.6

ANALYSIS IN PPM

AG.... L 0.06	CO3..... N	LI... 0.48		
AL.... L 1.0	CR.....	MG... 0.4		
AS.... 0.044				
AU....	CU..... L 0.12	MO... 0.013	SE... 0.013	
R.... 0.5	F..... 9.9	NA... 350.6	SI02.. 59.19	
HA.... L 0.2				
HE....	FE(TOT).. L 0.15	NB... 283.8	S04.. 0.03	
HI....	GA.....	NH4.. L 0.05	SR... 0.03	
CA.... 6.6	HCO3.... 191.6	NO3.. 0.09		
CA-MG.	MG..... L 0.0002			
CO....	H2S.....	PO4.. 0.03		
CL.... 200.				
CO....	K..... 3.5			
				ZN... L 0.02

ISOTOPES (0/00)

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 00028

GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0018103

NAME OF SAMPLE SOURCE... HOWARD WELL

WELL/SPRING NUMBER..... 11S-29E-36-BBC

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES	11S 029E 36	SW OF NW NW	LAT/LONG... 32-26.33 N 109-20.78 W
STATE..... ARIZONA	B&M GILA AND SALT RIVER		UTM ZONE... 12
COUNTY..... GRAHAM			NORTHING... 3590037.
GEOLOGIC PROVINCE.. 04			655431.
MAP REFERENCE..... BOWIE 1:62500			

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

ISOTOPES (0/00)

AG....	CO3..... N			
AL....	CR.....	MG... 12.		
R.... 1.18	F..... 4.65	NA... 517.9	SI02.. 41.05	
HE....	FE(TOT).. 0.16	NB... 1025.9		
CA.... 81.1	HCO3.... 184.3			
CO....	H2S.....	PO4.. N		
CL.... 175.1				
CO....	K..... 6.2			

REFERENCE AND IDENTIFICATION

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

RECORD 00029

GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0018123

NAME OF SAMPLE SOURCE... INDIAN HOT SPRING
 WELL/SPRING NUMBER..... 05S-24E-17-A
LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE 05S 024E 17 NE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... FT. THOMAS 1162500
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 46.5

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

WATER ANALYSIS

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

ANALYSIS IN PPMISOTOPIES (0/00)

AG....	CO3..... N				
AL....	CR.....	MG...	10.3		
H..... 0.7	F..... 3.8	NA...	1022.6	SI02.	43.45
HE....	FE(TQT). L 0.1	NB...		S04..	361.
CA.... 92.8	HCO3.... 101.2				
CD....	H2S.....	PO4.. N			
CL.... 1382.					
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

RECORD 00030

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018124

NAME OF SAMPLE SOURCE... INDIAN HOT SPRING DUG WELL
 WELL/SPRING NUMBER..... 05S-24E-17-A
LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE 05S 024E 17 NE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... FT. THOMAS 1162500
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.
SAMPLE DESCRIPTION AND CONDITIONS
 POINT OF COLLECTION.. UNCERTAIN WHICH SPRING SAMPLED
 TEMPERATURE (C)..... 47.0

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

WATER ANALYSIS

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

ANALYSIS IN PPMISOTOPIES (0/00)

AG.... L 0.07	CO3..... N	LI...	1.30		
AL.... L 1.1	CR.....	MG...	9.0		
AS.... 0.036					
AU....	CU..... L 0.12	MO...		SE...	0.021
H..... 0.58	F..... 3.4	NA...	837.	SI02.	43.45

HA.... 0.3
 HE....
 HI....
 CA.... 79.6
 CA-MG.
 CD....
 CL.... 1196.3
 CO....
 FE(TOT). L 0.1
 GA.....
 HCO3.... 107.3
 MG..... 0.0006
 H2S.....
 NH...
 NH4... 0.05
 NO3... 0.7
 PO4.. N
 SO4.. 322.6
 SR... 1.02
 R..... 13.6
 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

GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0015695

NAME OF SAMPLE SOURCE... INDIAN HOT SPRINGS

WELL/SPRING NUMBER..... 17

LOCATION

COUNTRY..... UNITED STATES TOWNSHIP-RANGE 05S 024E NE OF SE NE COORDINATES
 STATE..... ARIZONA LAT/LONG... 32-59.93 N 109-53.87 W
 COUNTY..... GRAHAM

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1974/11/18

TEMPERATURE (C)..... 48.

WATER ANALYSIS

PH..... 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.....				TH-230.... L 0.025		
PR-210....				TH-232.... L 0.0088		
RA-226....	0.66	+/-	0.13	U-234....	0.72	+/- 0.092
RA-228....				U-238....	0.38	+/- 0.063
RN-222....	530.	+/-	51.			

REFERENCE AND IDENTIFICATION

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

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

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

RECORD 00032

GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0002941

NAME OF SAMPLE SOURCE... INDIAN HOT SPRINGS

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

LOCATION

COUNTRY..... UNITED STATES TOWNSHIP-RANGE 05S 024E 17 SW OF SW NE COORDINATES
 STATE..... ARIZONA 86M: GILA AND SALT RIVER LAT/LONG... 32-59.85 N 109-53.95 W
 COUNTY..... GRAHAM UTM ZONE... 12
 GEOLOGIC PROVINCE... 04 NORTHING... 3651355.
 MAP REFERENCE..... THATCHER 1:62500 602838.

SAMPLE DESCRIPTION AND CONDITIONS

POINT OF COLLECTION.. UNCERTAIN WHICH SPRING SAMPLED.

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

ISOTOPES (0/100)

DEL D OF WATER..... -85.8
 DEL O(18) OF WATER... -11.42

AG....	CO3.....	LI... 1.2	S....
AL.... L 0.001	CR.....	MG... 9.1	SB...
AS....	CS..... L 0.1	MN... L 0.02	
AU....	CU..... L 0.01		
H.... 0.57	F..... 3.4	NA... 865.	S102. 40.
HE....	FE(TQT) L 0.02	NB... 350.	S04.. 350.
HR....	GE.....	NI... L 0.02	
CA.... 76.	HCO3.... 88.		
CA+MG.	HG..... 0.0001		
CL.... 1200.			
CO....	K..... 13.	RB... 0.09	ZN... 0.01

GAS ANALYSIS

ISOTOPES (00/01)

ANALYSIS IN VOLUME %

C2H6.

N2... 95.

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 SAMPLE FILE

GEOTHERM FILE ID: 0015734

NAME OF SAMPLE SOURCE... LEBANON MINERAL BATH

WELL/SPRING NUMBER..... 07

LOCATION

TOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 08S 026E NW OF NE

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

STATE..... ARIZONA

COUNTY..... GRAHAM

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTION..... 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, MAMISBURG, 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 0.0089
PR-210....	TH-232.... L 0.012
RA-226.... 0.3 +/- 0.089	U-234..... 0.03 +/- 0.02
RA-228....	U-238..... 0.01 +/- 0.016
RI-222.... 420. +/- 37.	

REFERENCE AND IDENTIFICATION

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

RECORD 00034

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0018401

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 1162500

TOWNSHIP-RANGE

08S 026E 07 NW OF NW NE
 B&M: GILA AND SALT RIVER

COORDINATES

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

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.....	MG...	2.6		
Na....	1.29	F.....	9.0	NA...	1053.6	SI02.. 20.43
HE....		FE(TOT). L	0.1	NB...		S04.. 604.8
CA....	59.	HCO3.....	47.6			
CD....		H2S.....		PO4..	N	
CL....	447.3					
CO....		K.....	6.6			

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

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

RECORD 00035

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0018122

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

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

LOCATION

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE...
 MAP REFERENCE..... ARTESIA 1124000

TOWNSHIP-RANGE

08S 026E 07 SE OF SE SE
 B&M: GILA AND SALT RIVER

COORDINATES

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

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

ISOTOPES (0/00)

Al....		CR.....		MG...	0.4		
B.....	0.9	F.....	13.60	NA...	523.7	SI02.	23.58
FE....		FE(TOT) L	0.1	NB...		S04..	282.3
CA....	21.	HC03....	82.9				
Cl.....		H25.....		P04..	N		
CL....	203.7						
CO....		K.....	3.9				

REFERENCE AND IDENTIFICATION

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

RECORD 00036

GEOTERM SAMPLE FILE

GEOTHERM FILE ID: 0015696

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

LOCATION

COUNTRY..... UNITED STATES TOWNSHIP-RANGE 09S 026E NE
 STATE..... ARIZONA

COORDINATES

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

COUNTY..... GRAHAM

SAMPLE DESCRIPTION AND CONDITIONS

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

TEMPERATURE (C)..... 42.

OTHER SAMPLE INFORMATION.. RECREATIONAL SPA.

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, MAMMISBURG, 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	0.018		
PH-210....			TH-232....	0.0079 +/-	0.0056	
RA-226....	0.089 +/-	0.05	U-234....	0.087 +/-	0.036	
RA-228....			U-238....	0.042 +/-	0.024	
RN-222....	240. +/-	30.				

REFERENCE AND IDENTIFICATION

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

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

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

RECORD 00037

GEOTERM SAMPLE FILE

GEOTHERM FILE ID: 0015697

NAME OF SAMPLE SOURCE... MOUNT GRAHAM MINERAL BATH WELL

LOCATION

COUNTRY..... UNITED STATES TOWNSHIP-RANGE 06S 02SE 3S NE OF SW SW
 STATE..... ARIZONA
 COUNTY..... GRAHAM

COORDINATES

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

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1974/11/18

TEMPERATURE (C)..... 45.

OTHER SAMPLE INFORMATION.. RECREATIONAL SPA.

WATER ANALYSIS

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.....				TH-230....	L 0.035		
PR-210....				TH-232....	L 0.019		
RA-226....	1.3	±	0.17	U-234....	0.23	±	0.051
RA-224....				U-238....	0.12	±	0.034
RN-222....	1200.	±	63.				

REFERENCE AND IDENTIFICATION

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

RECORD 00038

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0018121

NAME OF SAMPLE SOURCE... MR. GRAHAM MINERAL BATH

WELL/SPRING NUMBER..... 06S-25E-36-CC8

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 06S 02SE 36 NW OF SW SW
STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... GRAHAM
GEOLOGIC PROVINCE..

LAT/LONG... 32-51.73 N 109-44.93 W
UTM ZONE... 12
NORTHING... J636640.
617112.

MAP REFERENCE..... SAFFORD 1162500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 43.5

WATER ANALYSIS

PH..... 7.85
ALKALINITY..... 80.5 AS HCO3
TOTAL DISSOLVED SOLIDS... 8292.
CHARGE IMBALANCE (% DIFF)... 4.0

ANALYSIS IN PPM

ISOTOPES (0/00)

AG.... L 0.07	CO3..... N	LI... 2.77		
AL.... L 1.1	CR.....	MG... 7.9		
AS.... 0.070				
AU....	CU..... L 0.12	MO... SE... 0.053		
H.... 1.65	F..... 7.2	NA... 3027.3	SI02.. 65.83	
HA.... L 0.2				
HE....	FE(TOT).. 0.24	NB... S04.. 787.2		
HI....	GA.....	NH4.. SR... 1.88		
CA.... 135.4	HCO3.... 80.5	NO3.. 0.06		
CA+MG.	MG..... 0.0007			
CO....	H2S.....	PO4.. N		
CL.... 4517.3				
CO....	K..... 10.9	ZN... 0.09		

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..... 075-25E-01-BCC

LOCATION
COUNTRY..... UNITED STATES TOWNSHIP-RANGE 075 025E 01 SW OF SW SW
STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... GRAHAM
GEOLOGIC PROVINCE.. 04

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

MAP REFERENCE..... THATCHER 1162500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 42.0

OTHER SAMPLE INFORMATION.. PUMPED WELL; MINERAL BATHS
WATER ANALYSIS

PH..... 7.58
ALKALINITY..... 103. AS HCO3
TOTAL DISSOLVED SOLIDS... 7436.
CHARGE IMBALANCE (% DIFF)... 2.8
ANALYSIS IN MG/L

ISOTOPIES (0/00)

DEL D OF WATER..... -83.4
DEL O(18) OF WATER... -11.03

AG....		CO3.....	LI... 1.9	S....	
AL.... 0.002		CR.....	MG... 10.	SH...	
AS....		CS..... L 0.1	MN... 0.09		
AU....		CU..... L 0.01			
B.... 1.4		F..... 6.4	NA... 2600.	SI02.	55.
BE....		FE(TOT). L 0.02	NB...	S04..	680.
BW....		GE.....	NI... 0.047		
CA.... 110.		HCO3.... 103.			
CA-MG.		HG..... 0.0003			
CL.... 3800.					
CO....	K..... 11.		RB... 0.07	ZN... L 0.01	

REFERENCE AND IDENTIFICATION

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

RECORD 00040

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... PUMPED HOT WELL (NORTH OF BUENA VISTA)
WELL/SPRING NUMBER..... 075-27W-11-BBB

GEO THERM FILE ID: 0018120

LOCATION
COUNTRY..... UNITED STATES TOWNSHIP-RANGE 075 027E 11 NW OF NW NW
STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... GRAHAM
GEOLOGIC PROVINCE.. 04

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

MAP REFERENCE..... SAFFORD 1162500

OTHER LOCALITY INFORMATION: UNCERTAIN WHICH WELL SAMPLED.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 43.5

WATER ANALYSIS

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

ISOTOPIES (0/00)

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

R.....	0.43	F.....	10.60	NA...	330.7	SI02.	66.96
HA....	L 0.2						
HE....		FE(TOT) L	0.1	NH...		S04..	295.8
HI....		GA.....		NH4..	0.05	SR...	0.03
CA....	1.4	HCO3....	233.	NO3..	N		
CA-MG.		HG.....	0.006	PO4..	N		
CO....		H2S.....					
CL....	203.						
CO....		K.....	4.3				
				ZN...		0.09	

REFERENCE AND IDENTIFICATION

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

RECORD 00041

GEOTERM SAMPLE FILE

GEOTERM FILE 101 0018109

NAME OF SAMPLE SOURCE... PUMPED HOT WELL (SOUTH OF ARTESIA)
 WELL/SPRING NUMBER..... 09S-26E-05-BA

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 09S 026E 05 NE OF NW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... ARTESIA 1124000

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

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 33.0

WATER ANALYSIS

PH..... 8.5
 TOTAL DISSOLVED SOLIDS... 504.
 CHARGE IMBALANCE (% DIFF)... 13.7

ANALYSIS IN PPM

AG....		CO3.....	9.6				
AL....		CR.....		MG...	0.1		
H....	0.28	F.....	10.35	NA...	161.9	SI02.	27.58
HE....		FE(TOT) L	0.2	NH...		S04..	105.7
CA....	4.6	HCO3....	136.7				
CO....		H2S.....		PO4..	N		
CL....	109.1						
CO....		K.....	1.2				

ISOTOPIES (0/00)REFERENCE AND IDENTIFICATION

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

RECORD 00042

GEOTERM SAMPLE FILE

GEOTERM FILE 101 0018119

NAME OF SAMPLE SOURCE... PUMPED HOT WELL (SOUTH OF GILA MTS.)
 WELL/SPRING NUMBER..... 07S-27E-02-ACA

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 07S 027E 02 NE OF S4 NE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... SAFFORD 1162500

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

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

RECORD 00044

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018082

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

WELL/SPRING NUMBER..... 105-29E-20-ACD

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 105 029E 20 SE OF SW NE

STATE..... ARIZONA 86M: GILA AND SALT RIVER

COUNTY..... GRAHAM

GEOLOGIC PROVINCE.. 04

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

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

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

UTM ZONE... 12

NORTHING... 3602348.

650701.

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

ISOTOPES (0/00)

AG.... CO3..... 22.8

AL.... CR.....

H..... 0.3 F..... 4.95 MG... 0.2 NA... 253.3 SI02. 35.56

HE.... FE(TOT)... 0.71 NB... S04.. 206.5

CA.... 2.2 HCO3.... 129.3

CI.... H2S..... PU4.. N

CL.... 111.

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

REFERENCE AND IDENTIFICATION

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

REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00045

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018081

NAME OF SAMPLE SOURCE... ROCK WELL WINDMILL

WELL/SPRING NUMBER..... 085-29E-22-CAA

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 085 029E 22 NE OF NE SW

STATE..... ARIZONA 86M: GILA AND SALT RIVER

COUNTY..... GRAHAM

GEOLOGIC PROVINCE.. 04

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

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

UTM ZONE... 12

NORTHING... 3621423.

653225.

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

ISOTOPES (0/00)

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

AL.... CR.....

H..... 0.24 F..... 1.14 MG... 9.5 NA... 236.8 SI02. 44.45

HE.... FE(TOT)... 1.53 NH... S04.. 273.8

CA.... 35.8 HCO3.... 117.1

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

CL.... 183.6

CU.... K..... 9.8

REFERENCE AND IDENTIFICATION

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

RECORD 00046

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018085

NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTH OF SAFFORD, ARIZONA (1)

WELL/SPRING NUMBER..... 085-26E-09-08

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 08S 026E 09 SW OF NW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER

COUNTY..... GRAHAM

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... SAFFORD 1162500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... AZ60

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

AL.... 4.9 CR.....

AS.... 0.015

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

R.... 8.4 F..... 1.2

HA.... 0.37

HE.... FE(TOT). 17.

HI.... GA.....

CA.... 68. HCO3.... 165.

CA+MG. HG..... L 0.0002

CD.... H2S.....

CL.... 4097.

CO.... K..... 14.

Zn... 0.09

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

RECORD 00047

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018113

NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTH OF SAFFORD, ARIZONA (5)

WELL/SPRING NUMBER..... 085-26E-12-AAA

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 08S 026E 12 NE OF NE NE

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

COUNTY..... GRAHAM

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... SAFFORD 1162500

LAT/LONG... 32-45.46 N 109-03.98 W

UTM ZONE... 12

NORTHING... 3625016.

618655.

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....	CU..... L 0.12	MO...	SE... 0.028
R.... 1.2	F..... 8.4	NA... 782.6	SI02. 28.
RA.... 0.2			
RE....	FE(TOT). L 0.11	NH...	SO4.. 496.6
HI....	GA.....	NH4.. 0.25	SR... 1.07
CA.... 64.9	HCO3.... 30.5	NO3.. N	
CA+MG.	HG..... 0.0008		
CD....	H2S.....	PO4.. N	
CL.... 1023.5			
CO....	K..... 5.5	ZN... 0.05	

ISOTOPES (0/00)REFERENCE AND IDENTIFICATION

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

RECORD 00048

GEO THERM SAMPLE FILE

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

GEO THERM FILE ID: 0018112

LOCATION

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

TOWNSHIP-RANGE

08S 026E 07 SW OF NE
 B&M GILA AND SALT RIVER

COORDINATES

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

MAP REFERENCE..... SAFFORD 1162500

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		
AL....	CR.....	MG... 0.2	
H.... 0.8	F..... 11.7	NA... 384.1	SI02. 32.
RE....	FE(TOT). 0.18	NH...	SO4.. 294.4
CA.... 18.	HCO3.... 40.3		
CD....	H2S.....	PO4.. N	
CL.... 418.			
CO....	K..... 2.3		

ISOTOPES (0/00)REFERENCE AND IDENTIFICATION

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

RECORD 00049

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018111

NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTH OF SAFFORD, ARIZONA (3)

WELL/SPRING NUMBER..... 085-26E-07-BA

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 08S 026E 07 NE OF NW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE..

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

MAP REFERENCE..... SAFFORD 1162500

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

ISOTOPES (0/00)

AG....		CO3....	17.				
AL....		CR....		MG...	0.2		
B....	0.94	F....	14.	NA...	379.	SI02.	28.
BF....		FE(TOT). L	0.11	NB...		SO4..	247.
CA....	7.2	HCO3....	65.				
CI....		H2S....		P04..	0 0.09		
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

RECORD 00050

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018110

NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTH OF SAFFORD, ARIZONA (2)

WELL/SPRING NUMBER..... 085-26E-07-BB

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 08S 026E 07 NW OF NW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE..

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

MAP REFERENCE..... SAFFORD 1162500

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

ISOTOPES (0/00)

AG....		CO3....	11.				
AL....		CR....		MG...	0.1		
H....	0.6	F....	15.	NA...	306.	SI02.	29.

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

REFERENCE AND IDENTIFICATION

GEOTHERM FILE ID: 0018117

GEOHERM SAMPLE FILE

LOCATION

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 32-43.1 N 109-42.5 W
UTM ZONE... 12
NORTHING... 3620609.
621451.

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... AZ17
TEMPERATURE (C)..... 44.0

WATER ANALYSIS

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

ANALYSIS IN PPM

AG....	L 0.07	CO3.....	N	LI...	1.38		
AL....	L 1.1	CR.....		MG...	0.7		
AS....	0.011						
AU....		CU.....	L 0.12	MO...		SE...	0.018
Fe....	0.55	F.....	14.2	NA...	497.9	SI02.	26.
HA....	L 0.2						
HE....		FE(TQT)...	L 0.1	NB...		SO4..	266.9
HI....		GA.....		NH4..	0.1	SR...	0.19
CA....	16.	HCO3....	99.2	NO3..	Q 0.15		
CA+MG.		HG.....	0.006				
CD....		H2S.....		PO4..	N		
CL....	197.4						
CO....		K.....	4.3			ZN...	0.09

QUALIFICATION FIELD..... NO3 EQUALS NO2 • NO3.

REFERENCE AND IDENTIFICATION

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

RECORD 00052

GEOTHERM_SAMPLE-FILE

NAME OF SAMPLE SOURCE... WARM SPRING

LOCATION

TOWNSHIP-RANGE

COOKUINALS

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

LAI/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..... BERRY AND OTHERS, 1980

RECORD 00053

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018116

NAME OF SAMPLE SOURCE... WARM SPRING (NW OF FT. THOMAS)
 WELL/SPRING NUMBER..... 04S-23E-21-AD
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE 04S 023E 21 SE OF NE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE.. U4
 MAP REFERENCE..... FT. THOMAS 1:62500

COORDINATES

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

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

ISOTOPIES (0/00)

AG....	CO3..... N				
AL....	CR.....	MG...	10.2		
9..... 0.6	F..... 3.6	NA...	749.4	SI02..	52.43
HE....	FE(TOT).. 0.14	NB...		S04..	305.5
CA.... 94.2	HCO3.... 114.7				
CO....	H2S.....	PO4..	0.03		
CL.... 1153.3					
CO....	K..... 10.9				

QUALIFICATION FIELD..... PO4 CALCULATED FROM P.

REFERENCE AND IDENTIFICATION

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

RECORD 00054

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018115

NAME OF SAMPLE SOURCE... WARM SPRING NEAR INDIAN HOT SPRINGS
 WELL/SPRING NUMBER..... 05S-25E-17-AD
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE 05S 024E 17 SE OF NE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE.. U4
 MAP REFERENCE..... FT. THOMAS 1:62500

COORDINATES

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

OTHER LOCALITY INFORMATION: UNCERTAIN WHICH SPRING SAMPLED.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 33.0

WATER ANALYSIS

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

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....		CO3.....	N				
AL....		CR.....		MG...	8.0		
H.....	0.84	F.....	3.9	NA...	920.7	SI02.	56.61
HE....		FE(TOT)...	0.73	NH...		S04..	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

RECORD 00055

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0018027

NAME OF SAMPLE SOURCE... WELL (NORTH OF CACTUS FLAT)

WELL/SPRING NUMBER..... 08S-26E-06-DB

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 08S 026E 06 NW OF SE
 STATE..... ARIZONA B&M GILA AND SALT RIVER
 COUNTY..... GRAHAM
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... SAFFORD 1162500

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

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
 SPECIFIC CONDUCTANCE..... 3600.
 ALKALINITY..... 39. AS HCO3
 CHARGE IMBALANCE (% DIFF)... 2.3

ISOTOPES (0/00)

ANALYSIS IN PPM

AG....		CO3.....	2.	LI...	0.75		
AL....		CR.....		MG...	3.		
H.....	0.94	F.....	10.	NA...	680.	SI02. N	
HE....		FE(TOT)...		NH...		S04..	370.
CA....	37.	HCO3.....	39.	NO3..	N		
CL....	844.						
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 MCCHEARY, 1970

RECORD 00056

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0018028

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

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 07S 027E 07 NW OF SE

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

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....

CO3..... 5.

LI... 0.179

AL....

CR.....

MG... 2.

B..... 0.46

F..... 9.

NA... 368.

SI02. 65.

HE....

FE(TOT)...

NH... 504..

CA.... 7.

HCO3..... 234.

NO3.. N

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

RECORD 00057

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0018108

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

WELL/SPRING NUMBER..... 09S-26E-05-ABD

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 09S 026E 05 SE OF NW NE

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

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

ISOTOPES (O/RW)

AL....		CR.....		MG...	1.0		
H.....	0.3	F.....	14.55	NA...	248.9	SI02.	28.60
HE.....		FE(TOT).	0.22	NB...		S04..	172.4
CA.....	17.2	HC03....	218.4				
CO.....		H2S.....		PO4..	N		
CL.....	151.						
CO.....		K.....	2.3				

REFERENCE AND IDENTIFICATION

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

RECORD 00058

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0000265

NAME OF SAMPLE SOURCE... CLIFTON HOT SPRINGS

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

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 04S 030E 30 NE OF SW SE
 STATE..... ARIZONA 8&M1 GILA AND SALT RIVER
 COUNTY..... GREENLEE
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... CLIFTON 1162500

LAT/LONG... 33-03.20 N 109-17.80 W
 UTM ZONE... +12
 NORTHING... 3658298.
 659036.

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.

WATER ANALYSIS

PH..... 7.0
 ALKALINITY..... 163. AS HC03
 TOTAL DISSOLVED SOLIDS... 5526.
 CHARGE IMBALANCE (% DIFF)... 2.9

ANALYSIS IN MG/L

AG....		CO3....		LI...	2.6	S....	
AL....	0.001	CR.....		MG...	16.	SB...	
AS....		CS.....	0.3	MN...	0.32		
AU....		CU.....	0.02				
H.....	0.64	F.....	2.3	NA...	1500.	SI02.	55.
HE....		FE(TOT). L	0.02	NB...		S04..	72.
HR....		GE.....		NI...	0.04		
CA....	430.	HC03....	163.				
CA+MG.		MG.....	0.0003				
CL....	3150.						
CO....		K.....	82.	RB...	0.55	ZN...	0.02

ISOTOPIES (0/001)

DEL D OF WATER..... -76.2
 DEL O(18) OF WATER... -9.73

REFERENCE AND IDENTIFICATION

COMPILED BY..... TESHIN, VICTOR

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... MARINER AND OTHERS, 1977A

RECORD 00059

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0015698

NAME OF SAMPLE SOURCE... CLIFTON HOT SPRINGS

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 04S 030E 30 SE OF NW
 STATE..... ARIZONA
 COUNTY..... GREENLEE

LAT/LONG... 33-03.22 N 109-17.70 W

SAMPLE DESCRIPTION AND CONDITIONS

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

TEMPERATURE (C)..... 45.

WATER ANALYSIS

PH..... 7.4

RADIATION ANALYSISANALYST AND/OR AGENCY... U.S. EPA--ENVIRONMENTAL MONITORING AND SUPPORT LABORATORY, LAS VEGAS; MONSANTO RES. CORP.,
MOUND LABORATORY, MAMISBURG, 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
PH-210....				TH-232....	0.2	±	0.057
RA-226....	6.9	±	0.39	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

GEO THERM SAMPLE FILE

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

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

LOCATION

COUNTRY..... UNITED STATES 04S 028E 35 NW OF NW NE

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

COUNTY..... GREENLEE

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... CLIFTON 1162500

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....		CO ₃	LI...	0.39	S....	
AL.... L 0.001		CR....	MG...	2.1	SB...	
AS....		CS.... L 0.1	MN...	L 0.02		
AU....		CU.... L 0.01				
B.... 0.12		F.... 10.	NA...	190.	SI02.	64.
BF....		FE(TOT). L 0.02	NB...		SO4..	45.
BR....		GE....	NI... L 0.02			
CA.... 16.		HCO ₃ 283.				
CL.... 120.						
CO....		K..... 7.8	RH...	0.08	ZN... L 0.01	

ISOTOPES (0/00)

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

GEO THERM FILE ID: 0002947

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

RECORD 00061

GEOHEM SAMPLE FILE

GEOHEM FILE ID: 0018125

NAME OF SAMPLE SOURCE... GILLARD HOT SPRING

WELL/SPRING NUMBER..... 055-29E-27-AA

LOCATION

TOWNSHIP-RANGE

COORDINATES

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

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

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

ISOIOPES (0/00)

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... SE... 0.014		
B.... 0.4	F..... 10.6	NA... 410.8	S102.. 97.72	
BA.... L 0.2				
BE....	FE(TOT). L 0.1	NB... S04.. 174.7		
BI....	GA.....	NH4.. 0.05	SR... 0.09	
CA.... 20.	HCO3.... 219.6	NO3.. 1.34		
CA+MG.	HG..... 0.0007			
CO....	H2S.....	PO4.. N		
CL.... 463.6				
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

RECORD 00062

GEOHEM SAMPLE FILE

GEOHEM FILE ID: 0015699

NAME OF SAMPLE SOURCE... GILLARD HOT SPRINGS

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 055 029E 27 NE OF NE
STATE..... ARIZONA
COUNTY..... GREENLEE

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

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; MONSANTO RES. CORP.,
GROUND 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....	0.18	±/-	0.053
PR-210....				TH-232....	0.28	±/-	0.068
RA-226....	0.33	±/-	0.093	U-234....	0.26	±/-	0.054
RA-228....				U-238....	0.17	±/-	0.043
RN-222....	540.	±/-	47.				

REFERENCE AND IDENTIFICATION

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

RECORD 00063

GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0000269

NAME OF SAMPLE SOURCE... GILLARD HOT SPRINGS
 WELL/SPRING NUMBER..... 05S-29E-27-AAA

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... GREENLEE
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... GUTHRIE 1162500

05S 029E 27 NE OF NE NE
 B&M: GILA AND SALT RIVER

LAT/LONG... 32-54.40 N 109-20.97 W
 UTM ZONE... 12
 NORTHING... 3649533.
 654192.

OTHER LOCALITY INFORMATION: SPRINGS ISSUE FOR 50 M ALONG THE NORTH BANK OF THE GILA RIVER.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 82.0

WATER ANALYSIS

DATE/ANALYST..... 1974/12/00

PH..... 7.35

ALKALINITY..... 216.

AS HCO3

TOTAL DISSOLVED SOLIDS... 1483.

CHARGE IMBALANCE (% DIFF)... 2.2

ANALYSIS IN MG/L

AG....		CO3....		LI... 0.87	S....	
AL.... 0.009		CR....		MG... 0.8	SH...	
AS....		CS.... L 0.1		MN... L 0.02		
AU....		CU.... L 0.01				
H.... 0.41		F.... 11.		NA... 450.	SI02.	95.
HE....		FE(TOT). L 0.02		NB...	SO4..	180.
HR....		GE....		NI... L 0.02		
CA.... 22.		HCO3.... 216.				
CA+MG.		MG..... 0.0002				
CL.... 490.						
CO....		K..... 14.		RB... L 0.02	ZN... L 0.01	

ISOTOPES (D/H2O)

DEL D OF WATER..... -86.5
 DEL O(18) OF WATER... -10.87

REFERENCE AND IDENTIFICATION

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

RECORD 00064

GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0010034

NAME OF SAMPLE SOURCE... HANNA HOT SPRINGS

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES
 01N 031E 29 SE OF NE SE

LAT/LONG... 33-24.02 N 109-09.13 W

STATE..... ARIZONA
 COUNTY..... GREENLEE
 MAP REFERENCE..... DUTCH BLUE CREEK 1124000

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.

WATER ANALYSIS

PH..... 7.2
 TOTAL DISSOLVED SOLIDS... 677.
 CHARGE IMBALANCE (% DIFF)... 115.3
 ANALYSIS IN PPM

AL....	CR.....	MG...	0.06		
H....	F.....	NA...	37.		
RE....	FE(TOT)...	NB...		504..	13.
CA.... 21.	HC03.... 34.				
CL.... 332.					
CO....	K..... 2.9				

ISOTOPES (0/00)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 00065

GEOTERM SAMPLE FILE

NAME OF SAMPLE SOURCE... HANNA HOT SPRINGS

GEOTERM FILE 101 0000210

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 01N 031E
 STATE..... ARIZONA 86M; GILA AND SALT RIVER
 COUNTY..... GREENLEE
 MAP REFERENCE..... DUTCH BLUE CREEK 1124000

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

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

WATER ANALYSIS

DATE/ANALYST..... L/MIN
 PH..... 8.54
 CHARGE IMBALANCE (% DIFF)... 0.3

ANALYSIS IN MG/L

AL....	CR.....	MG...	0.05		
H.... L 1.	F..... 0.78	NA...	225.	SI02.	46.
RE....	FE(TOT)...	NB...		504..	16.
CA.... 16.	HC03.... 34.				
CL.... 345.					
CO....	K..... 1.7				

ISOTOPES (0/00)REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R. H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... *MARINER, R., USGS, MENLO PARK

RECORD 00066

GEOTERM SAMPLE FILE

GEOTERM FILE 101 0000242

NAME OF SAMPLE SOURCE... HANNAH HOT SPRING
 LOCATION TOWNSHIP-RANGE COORDINATES
 COUNTRY..... UNITED STATES LAT/LONG... 33-24.0 N 109-09.1 W
 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..... L 0.05
 H.... L 1. F..... 0.78 NA... 225. S102. 46.
 HE.... FE(TOT). NB... S04.. 16.
 HI.... GA..... NH4.. SR... 0.1
 CA.... 16. HCO3.... 34.
 CL.... 345.
 CU.... K..... 1.7 RB... L 0.02
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LIEB, RANDY
 COMPILER AFFILIATION... USGS
 REFERENCE..... MARINER, R., USGS, MENLO PARK

ISOTOPES (0/00)

RECORD 00067

GEOTHERM SAMPLE FILE GEOTHERM FILE 101 0000263
 NAME OF SAMPLE SOURCE... HOT SPRING N. OF CLIFTON
 WELL/SPRING NUMBER..... 04S-30E-18-CCD
 LOCATION TOWNSHIP-RANGE COORDINATES
 COUNTRY..... UNITED STATES 04S 030E 18 SE OF SW SW LAT/LONG... 33-04.80 N 109-18.17 W
 STATE..... ARIZONA B&M: GILA AND SALT RIVER UTM ZONE... 12
 COUNTY..... GREENLEE NORTHING... 3661060.
 GEOLOGIC PROVINCE.. 658368.
 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
 ALKALINITY..... 146. AS HCO3
 TOTAL DISSOLVED SOLIDS... 9696.
 CHARGE IMBALANCE (% DIFF)... 0.7
 ANALYSIS IN MG/L
 AG.... CO3.... LI... 4.1 S....
 AL.... L 0.001 CR..... MG... 21. SH...
 ISOTOPES (0/00)
 DEL D OF WATER..... -84.0
 DEL D(18) OF WATER... -10.95

AS....		CS.....	0.5	MN...	1.0		
AU....		CU.....	0.02				
R....	1.4	F.....	2.7	NA...	2700.	SI02.	94.
HE....		FE(TOT). L	0.02	NB...		504..	62.
HR....		GE.....		NI...	0.06		
CA....	790.	HCO3....	146.				
CA+MG.		HG.....	0.0001				
CL....	5700.						
CU....		K.....	170.	RB...	1.2	ZN...	0.03

REFERENCE AND IDENTIFICATION

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

RECORD 00068

GEOHEM SAMPLE FILE

GEOHEM FILE 101 0018035

NAME OF SAMPLE SOURCE... HOT SPRING NORTH OF CLIFTON
LOCATION
 COUNTRY..... UNITED STATES 04S 030E 18 SW
 STATE..... ARIZONA
 COUNTY..... GREENLEE
 GEOLOGIC PROVINCE..

COORDINATES

LAT/LONG... 33-04.706N 109-18.156W
 UTM ZONE... +12
 NORTHING... 3661072.
 658437.

MAP REFERENCE..... CLIFTON 1162500SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1978/04/26
 TEMPERATURE (C)..... 61.0
 DISCHARGE..... N L/MIN

WATER ANALYSIS

PH..... 7.45
 TOTAL DISSOLVED SOLIDS... 7205.
 CHARGE IMBALANCE (% DIFF)... 3.2

ANALYSIS IN PPM

AL....		CR.....		MG...	13.		
H....		F.....		NA...	2015.	SI02.	95.
HE....		FE(TOT).		NB...		504..	58.
CA....	602.	HCO3....	114.				
CL....	4400.						
CO....		K.....	175.				

ISOTOPE (0/00)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

GEOHEM SAMPLE FILE

GEOHEM FILE 101 0018128

NAME OF SAMPLE SOURCE... SEEP
 WELL/SPRING NUMBER..... 04S-30E-19-CA
LOCATION
 COUNTRY..... UNITED STATES 04S 030E 19 NE OF SW
 STATE..... ARIZONA 8&M: GILA AND SALT RIVER
 COUNTY..... GREENLEE
 GEOLOGIC PROVINCE..

COORDINATES

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

MAP REFERENCE..... CLIFTON 1162500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

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..... 1.8 NA... 3207.3 SI02. 81.70
 HE.... FE(TOT). 0.34 NB... S04.. N
 CA.... 1064.4 HCO3... 91.5
 CD.... H2S..... PO4.. 0.01
 CL.... 6459.9
 CO.... K..... 209.8

ISOTOPIES (0/00)REFERENCE AND IDENTIFICATION

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

RECORD 00070

GEOHERM SAMPLE FILE

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

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

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 04S 030E 18 SW OF SW SW
 STATE..... ARIZONA 8&M: GILA AND SALT RIVER
 COUNTY..... GREENLEE
 GEOLOGIC PROVINCE..

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

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
 AU.... CU..... L 0.12 MO... SE... 0.256
 R.... 1.51 F..... 3.5 NA... 3585.9 SI02. 131.35
 RA.... 3.55
 HE.... FE(TOT). 0.72 NB... S04.. N
 RI.... GA..... NH4.. 0.4 SR... 24.2
 CA.... 925.8 HCO3... 150. NO3.. N
 CA+MG. MG..... 0.0035
 CD.... H2S..... L 0.1 PO4.. 0.03
 CL.... 7484.5
 CO.... K..... 243.4 ZN... 0.1

ISOTOPIES (0/00)

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

REFERENCE AND IDENTIFICATION

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

RECORD 00071

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018127

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

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 04S 028E 35 NW OF NW NE

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

COUNTY..... GREENLEE

GEOLOGIC PROVINCE.. U4

MAP REFERENCE..... CLIFTON 1162500

OTHER LOCALITY INFORMATION: UNCERTAIN WHICH SPRING SAMPLED.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 42.0

WATER ANALYSIS

P4..... 8.13

ALKALINITY..... 287.9 AS HCO3

TOTAL DISSOLVED SOLIDS... 676.

CHANGE IN BALANCE (% DIFF)... 4.5

ANALYSIS IN PPM

ISOTOPES (0/00)

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

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

AS.... 0.030

AU.... CU..... L 0.12 MU... SE... 0.006

H.... 0.15 F..... 10.2 NA... 197.8 SI02. 66.96

HA.... L 0.2

HE.... FE(TOT). L 0.1 NB... S04.. 76.8

HI.... GA..... NH4.. 0.1 SR... 0.07

CA.... 14.4 HCO3... 287.9 NO3.. 0.1

CA+MG. HG..... 0.0002 P04.. N

CI.... H2S..... L 0.1

CL.... 120.7

CO.... K..... 9.0 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

RECORD 00072

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018175

NAME OF SAMPLE SOURCE... WELL AT CLIFTON HOT SPRINGS

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 04S 030E 30 SW OF NW SE

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

COUNTY..... GREENLEE

MAP REFERENCE..... CLIFTON 1162500

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.

ANALYSIS IN PPM

ISOTOPES (U/DU)

AL.....	CR.....	MG...	4).		
H.....	F..... 3.0	NA...		SI02.	58.
HA.....	FE+3.....	NA+K.	2750.		
HE.....	FE(TOT)...	NB...		S04..	153.
CA..... 860.	HCO3..... 109.	NO3..	7.5		
CL..... 5800.					

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... FETH AND HEM, 1963

RECORD 00073

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0015700

NAME OF SAMPLE SOURCE... AQUA CALIENTE SPRINGS WELL

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 05S 010W 19 NE OF NE LAT/LONG... 32-59.14 N 113-19.49 W
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 MAP REFERENCE..... AQUA CALIENTE 1124000

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. COMP.,
 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.... 0.084 +/- 0.032		
RA-228....		U-238.... 0.056 +/- 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 SAMPLE FILE

GEOTHERM FILE ID: 0015701

NAME OF SAMPLE SOURCE... BUCKHORN MINERAL BATH WELL

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 01N 006E 23 NE OF SE SE LAT/LONG... 33-24.97 N 111-42.12 W
 STATE..... ARIZONA
 COUNTY..... MARICOPA

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1974/11/18

TEMPERATURE (C)..... 49.

OTHER SAMPLE INFORMATION.. RECREATIONAL SPA.

WATER ANALYSIS

PH..... 7.82

RADIATION ANALYSIS

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

RADIATION ANALYTICAL COMMENTS... PROCEDURES: EPA HANDBOOK OF RADIOCHEMICAL ANALYTICAL SAMPLING; STOKER AND KRUGER,
1975.

RADIOISOTOPES

K-40.....			TH-230....	L 0.02	
PR-210....			TH-232....	0.016 +/-	0.016
RA-226....	0.048 +/-	0.056	U-234....	1.3 +/-	0.14
RA-228....			U-238....	0.94 +/-	0.11
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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018088

NAME OF SAMPLE SOURCE... BUCKHORN MINERAL BATH (WELL)

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

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 01N 06E 23 SE OF NE
STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... MARICOPA
GEOLOGIC PROVINCE.. 04
MAP REFERENCE..... BUCKHORN 1124000

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

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 PPMISOTOPIES (U/001)

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... SE... 0.008	
H.... 0.44	F..... 5.7	NA... 245.	SI02. 37.
HA.... L 0.2			
HF....	FE(TOT). L 0.11	NB... SO4.. 70.	
HI....	GA.....	NH4.. L 0.05	SR... 0.17
CA.... 23.	HCO3.... 94.	NO3.. U 5.2	
CA+MG.	MG..... 0.0008		
CD....	H2S.....	PO4.. N	
CL.... 307.			
CO....	K..... 5.9		
			ZN... 0.06

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

REFERENCE AND IDENTIFICATION

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

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

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02N 004E 02 NE OF NW SE

STATE..... ARIZONA 8&M: GILA AND SALT RIVER

COUNTY..... MARICOPA

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... PARADISE VALLEY 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

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

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

ISOTOPES (0/00)

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

AL.... CR.....

R.... 0.43 F..... 0.46 MG... 19.3

RE.... FE(TOT). L 0.1 NA... 54. SI02. 30.

CA.... 16. HCO3.... 250.2 NH... S04.. 10.6

CO.... H2S..... PO4.. 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

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-32-88B

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02N 002W 32 NW OF NW NW

STATE..... ARIZONA 8&M: GILA AND SALT RIVER

COUNTY..... MARICOPA

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... CORTEZ PEAK 1:62500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

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

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

ISOTOPES (0/00)

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

AL....		CR.....		MG...	4.5		
R.....	0.71	F.....	2.91	NA...	177.5	SI02.	31.
HE.....		FE(TOT)...	4.78	NB...		S04..	94.1
CA.....	27.2	MC03....	101.3				
CO.....		H2S.....		PO4..	0.03		
CL.....	199.2						
CO.....		K.....	4.7				

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 00078

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018041

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02N 001W 31 NE OF NW NW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE.. 04

LAT/LONG... 33-28.70 N 112-24.30 W
 UTM ZONE... +12
 NORTHING... 3705007.
 369455.

MAP REFERENCE..... PERRYVILLE 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 33.0

WATER ANALYSIS

PH..... 8.3
 ALKALINITY..... 101.3 AS MC03
 TOTAL DISSOLVED SOLIDS... 2864.
 CHARGE IMBALANCE (% DIFF)... 4.2

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....		CO3.....	N				
AL....		CR.....		MG...	15.9		
R.....	0.87	F.....	2.02	NA...	939.1	SI02.	24.
HE.....		FE(TOT)...	1.19	NB...		S04..	398.6
CA.....	97.8	MC03....	101.3				
CO.....		H2S.....		PO4..	0.03		
CL.....	1246.9						
CO.....		K.....	5.9				

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 00079

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018040

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

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

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

MAP REFERENCE..... CORTEZ PEAK 1162500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 33.0

WATER ANALYSISANALYSIS IN PPM

H.....

F.....

NA...

SI02.

31.

ISOTOPES (0/00)

HE.....

FE(TOT)...

0.33

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.

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

REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00080

GEOTERM SAMPLE FILE

NAME OF SAMPLE SOURCE... HOT PUMPED WELL (S)

WELL/SPRING NUMBER..... 01N-02W-08-DAD

GEOTERM FILE ID: 0018042

LOCATION

COUNTRY..... UNITED STATES

TOWNSHIP-RANGE

01N 002W 08 SE OF NE SE

COORDINATES

LAT/LONG... 33-26.38 N 112-28.71 W

STATE..... ARIZONA

B&M: GILA AND SALT RIVER

UTM ZONE... +12

COUNTY..... MARICOPA

NORTHING... 3700852.

GEOLOGIC PROVINCE... 04

362581.

MAP REFERENCE..... PERRYVILLE 1124000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 44.0

WATER ANALYSIS

PH..... 8.27

ALKALINITY..... 102.5 AS HCO3

TOTAL DISSOLVED SOLIDS... 1040.

CHARGE IMBALANCE (% DIFF)... 0.1

ANALYSIS IN PPMISOTOPES (0/00)

AG....

CO3..... N

AL....

CR.....

MG...

9.0

H..... 1.07

F.....

2.91

NA...

335.4

SI02.

27.

HE.....

FE(TOT)...

0.1

NB...

S04..

174.8

CA..... 52.3

HCO3....

102.5

PO4..

0.86

CO....

H2S.....

CL.... 446.3

CU....

K.....

3.9

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 00081

GEOTERM SAMPLE FILE

NAME OF SAMPLE SOURCE... HOT WELL (TONOPAH)

WELL/SPRING NUMBER..... 02N-07W-26-ABC

GEOTERM FILE ID: 0002966

LOCATION

COUNTRY..... UNITED STATES

TOWNSHIP-RANGE

02N 007W 26 SW OF NW NE

COORDINATES

LAT/LONG... 33-29.310N 112-56.488W

STATE..... ARIZONA

B&M: GILA AND SALT RIVER

UTM ZONE... +12

COUNTY..... MARICOPA

NORTHING... 370693A.

GEOLOGIC PROVINCE... 04

319625.

MAP REFERENCE..... ARLINGTON 1162500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 50.5

OTHER SAMPLE INFORMATION.. PUMPED WELL; MINERAL BATHS
WATER ANALYSIS

PH..... 8.2

ALKALINITY..... 83.

AS HCO3

TOTAL DISSOLVED SOLIDS... 701.

CHARGE IMBALANCE (% DIFF)... 3.8

ANALYSIS IN MG/L

AG....

CO3.....

LI....

0.24

S....

ISOTOPIES (0/00)

DEL D OF WATER..... -75.3

DEL O(18) OF WATER... -9.89

AL....

CR.....

MG....

0.6

SO....

AS....

CS.....

L 0.1

MN....

L 0.02

AU....

CU.....

L 0.01

R.....

0.85

F.....

5.7

NA....

220.

SI02.

24.

HE....

FE(TOT)...

0.03

NB....

L 0.02

S04..

87.

BH....

GE.....

CA....

14.

HCO3.....

83.

CL....

260.

CO....

K.....

2.1

RB....

L 0.02

ZN....

0.01

REFERENCE AND IDENTIFICATION

COMPILED BY..... TESHIN, VICTOR

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... MARINER AND OTHERS, 1977A

RECORD 00082

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... HUDSON FARMS, INC. WELL

GEO THERM FILE ID: 0015702

LOCATION

COUNTRY..... UNITED STATES

TOWNSHIP-RANGE

05S 010W 06

COORDINATES

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

STATE..... ARIZONA

COUNTY..... MARICOPA

MAP REFERENCE..... HYDER SE 1124000

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.... 0.19 +/-

0.067

U-234.... 0.12 +/-

0.039

RA-228....

U-238.... 0.14 +/-

0.041

REFERENCE AND IDENTIFICATION

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

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

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

RECORD 00083

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0018092

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

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 05S 010W 16 NW OF SW SW

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

STATE..... ARIZONA

B&M: GILA AND SALT RIVER

UTM ZONE... 12

COUNTY..... MARICOPA

NORTHING... 3652717.

GEOLOGIC PROVINCE.. 04

284632.

MAP REFERENCE..... AGUA CALIENTE 1124000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 45.8

WATER ANALYSIS

PH..... 8.47

ALKALINITY.....

AS HCO3

TOTAL DISSOLVED SOLIDS... 696.

CHARGE IMBALANCE (% DIFF)... 6.1

ANALYSIS IN PPM

ISOTOPES (0/00)

AG.... L 0.07 CO3..... 9.6 LI... 0.25

AL.... L 1.10 CR..... MG... 0.4

AS.... 0.051

AU.... CU..... L 0.12 MO... SE... 0.007

R.... 1.6 F..... 3.9 NA... 223.7 SI02. 26.08

RA.... L 0.2

HE.... FE(TOT). 0.57 NB... S04.. 159.

HI.... GA..... NH4.. SR... 0.05

CA.... 8.0 HCO3..... 76.9 NO3.. 5.61

CD.... H2S..... PO4.. N

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

RECORD 00084

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0018087

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

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 01N 006E 26 NW OF SE SW

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

STATE..... ARIZONA

B&M: GILA AND SALT RIVER

UTM ZONE... 12

COUNTY..... MARICOPA

NORTHING... 3695850.

GEOLOGIC PROVINCE.. 04

433975.

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

ISOTOPES (0/00)

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

AL....		CR.....		MG...	0.6		
H.....	0.12	F.....	1.65	NA...	108.3	SiO2.	29.57
RE....		FE(TOT). L	0.11	NH...		SO4..	35.5
CA....	14.2	HCO3....	93.9				
CO....		H2S.....		PO4..	N		
CL....	126.2						
CO....		K.....	2.7				

REFERENCE AND IDENTIFICATION

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

RECORD 00085

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018045

NAME OF SAMPLE SOURCE... PUMPED WARM WELL (EAST OF THEBA)

WELL/SPRING NUMBER..... 06S-05W-03-DD

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 06S 005W 03 SE OF SE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... THEBA 1162500

LAT/LONG... 32-55.9 N 112-45.1 W
 UTM ZONE... 12
 NORTHING... 3644882.
 336226.

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 37.5

WATER ANALYSIS

PH..... 7.71
 ALKALINITY..... 65.9 AS HCO3
 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						
AI....		CU.....	L 0.1	MO...		SE...	0.001
H.....	1.01	F.....	5.79	NA...	389.2	SiO2.	27.
HA....	L 0.4						
HE....		FE(TOT). L	0.1	NH...		SO4..	147.9
HI....		GA.....		NH4..		SR...	0.57
CA....	41.3	HCO3....	65.9	NO3..	9.25		
CU....		H2S.....	L 0.3	PO4..	L 0.03		
CL....	539.2						
CO....		K.....	6.2				
						ZN...	L 0.02

ISOTOPES (0/00)

QUALIFICATION FIELD..... NO3 EQUALS NO2 + NO3. 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 00086

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018046

NAME OF SAMPLE SOURCE... PUMPED WARM WELL (SW OF GILA BEND)

WELL/SPRING NUMBER..... 06S-05W-02-AD

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 06S 005W 02 SE OF NE

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

STATE..... ARIZONA B&M: GILA AND SALT RIVER UTM ZONE... +12
 COUNTY..... MARICOPA NORTHING... 3645413.
 GEOLOGIC PROVINCE.. 04 337638.
 MAP REFERENCE..... GILA BEND 1:62500
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.
SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 36.0
WATER ANALYSIS
 PH..... 8.49
 ALKALINITY..... 76.9 AS HCO3
 TOTAL DISSOLVED SOLIDS... 1428.
 CHARGE IMBALANCE (% DIFF)... 2.3
ANALYSIS IN PPM
 AG.... CO3..... N
 AL.... CR.....
 B.... 0.85 F..... 5.13 MG... 9.8
 HE.... FE(TOT). L 0.1 NA... 423.2 S102. 50.
 CA.... 69.1 HCO3.... 76.9 NB... S04.. 147.9
 CD.... H2S.....
 CL.... 628.6 PO4.. 0.04
 CU.... K..... 8.2
REFERENCE AND IDENTIFICATION
 COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... SWANBERG AND OTHERS, 1977

ISOTOPIES (0/00)

RECORD 00087

GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0018070

NAME OF SAMPLE SOURCE... PUMPED WARM WELL (SW OF SIERRA ESTRELLA)
 LOCATION TOWNSHIP=RANGE

COORDINATES

COUNTRY..... UNITED STATES 035 001W 34 SW OF NW LAT/LONG... 33-07.43 N 112-21.30 W
 STATE..... ARIZONA B&M: GILA AND SALT RIVER UTM ZONE... +12
 COUNTY..... MARICOPA NORTHING... 3665585.
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... MOBILE 1:62500 373590.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 29.0

WATER ANALYSIS

PH..... 7.64
 ALKALINITY..... 159.9 AS HCO3
 TOTAL DISSOLVED SOLIDS... 632.
 CHARGE IMBALANCE (% DIFF)... 5.8

ISOTOPIES (0/00)

ANALYSIS IN PPM
 AG.... CO3..... N
 AL.... CR.....
 B.... 0.21 F..... 0.93 MG... 8.1
 HE.... FE(TOT). L 0.15 NA... 172.9 S102. 22.33
 CA.... 32.9 HCO3.... 159.9 NB... S04.. 86.4
 CD.... H2S.....
 CL.... 174.8 PO4.. 0.03
 CU.... 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

RECORD 00088

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0018069

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 03S 001W 04 NE OF NE NW
STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... MARICOPA
GEOLOGIC PROVINCE.. 04
MAP REFERENCE..... MOBILE 1162500LAT/LONG... 33-12.2 N 112-21.9 W
UTM ZONE... +12
NORTHING... 3674467.
372773.

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

ISOTOPES (0/00)

AG..... CO3..... N
AL..... CR.....
H..... 0.18 F..... 0.72 MG... 3.2
HE..... FE(TOT). L 0.15 NA... 263. SI02. 18.93
CA..... 25.4 HCO3.... 86.6 NH... S04.. 112.4
CD..... H2S.....
CL..... 323.3 PU4.. 0.06
CO..... K..... 10.2

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

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0018068

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02S 002W 25 SW OF SW SW
STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... MARICOPA
GEOLOGIC PROVINCE.. 04
MAP REFERENCE..... MOBILE 1162500LAT/LONG... 33-13.1 N 112-25.5 W
UTM ZONE... +12
NORTHING... 3676205.
367203.

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

ISOTOPES (0/00)

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

AL....		CR.....		MG...	5.5		
H.....	0.27	F.....	2.58	NA...	295.9	SI02.	22.33
HE....		FE(TQT). L	0.15	NB...		S04..	168.1
CA....	29.	HCO3....	114.7				
CO....		H2S.....		PO4..	N		
CL....	352.4						
CO....		K.....	8.6				

REFERENCE AND IDENTIFICATION

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

RECORD 00090

GEOHERM SAMPLE FILE

GEOHERM FILE 101 0018067

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

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 02S 002W 23 SW OF SW SW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE.. 04

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

MAP REFERENCE..... MOBILE 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 31.2

WATER ANALYSIS

PH..... 8.13
 ALKALINITY..... 90.3 AS HCO3
 TOTAL DISSOLVED SOLIDS... 736.
 CHARGE IMBALANCE (% DIFF)... 5.7

ANALYSIS IN PPMISOTOPIES (0/001)

AG....		CO3.....	N				
AL....		CR.....		MG...	1.6		
H.....	0.23	F.....	3.39	NA...	245.5	SI02.	19.38
HE....		FE(TQT).	0.18	NB...		S04..	164.2
CA....	14.8	HCO3....	90.3				
CO....		H2S.....		PO4..	N		
CL....	256.3						
CO....		K.....	6.2				

REFERENCE AND IDENTIFICATION

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

RECORD 00091

GEOHERM SAMPLE FILE

GEOHERM FILE 101 0018090

NAME OF SAMPLE SOURCE... PUMPED WELL (NW OF MARICOPA MTS.)
 WELL/SPRING NUMBER..... 02S-04W-26-BD

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 02S 004W 26 SE OF NW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE.. 04

LAT/LONG... 33-13.6 N 112-38.6 W
 UTM ZONE... +12
 NORTHING... 3677427.
 368869.

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

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 35.2

WATER ANALYSIS

PH..... 7.85
 ALKALINITY..... 150.1 AS HC03
 TOTAL DISSOLVED SOLIDS... 2008.
 CHARGE IMBALANCE (% DIFF)... 5.9

ANALYSIS IN PPM

AG....		CO3..... N	LI...	0.42	
AL....		CR.....	MG...	3.5	
AS....	0.021				
AU....		CU.....	MO...		SE... 0.018
R.....	1.02	F..... 4.95	NA...	533.3	SI02.. 22.57
BE....		FE(TOT). L 0.11	NB...		S04.. 168.1
BI....		GA.....	NH4..		SR... 2.07
CA....	113.2	HC03.... 150.1	NO3..	28.7	
CD....		H2S.....	PO4..	N	
CL....	889.1				
CO....		K..... 10.9	ZN...	L 0.03	

ISOTOPES (0/00)

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

GEO THERM SAMPLE FILE

GEO THERM FILE 101 0018091

NAME OF SAMPLE SOURCE... PUMPED WELL (NW OF MARICOPA MTS.-2)
 WELL/SPRING NUMBER..... 03S-04W-15-DAA

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	03S 004W 15	NE OF NE SE	LAT/LONG...	33-09.98 N 112-39.00 W
STATE.....	ARIZONA	B&M: GILA AND SALT RIVER		UTM ZONE...	+12
COUNTY.....	MARICOPA			NORTHING...	3670784.
GEOLOGIC PROVINCE..					346142.

MAP REFERENCE..... COTTON CENTER 1162500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 28.2

WATER ANALYSIS

PH..... 7.67
 ALKALINITY..... 128.1 AS HC03
 TOTAL DISSOLVED SOLIDS... 1848.
 CHARGE IMBALANCE (% DIFF)... 6.5

ANALYSIS IN PPM

AG....		CO3..... N	MG...	6.0	
AL....		CR.....	NA...	480.7	SI02.. 226.08
R.....	1.4	F..... 4.44	NB...		S04.. 333.3
BE....		FE(TOT). 0.17			
CA....	117.8	HC03.... 128.1	PO4..	N	
CD....		H2S.....			
CL....	714.				
CO....		K..... 11.3			

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

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

RECORD 00093

GEO THERM SAMPLE FILE

GEO THERM FILE 101 0018093

NAME OF SAMPLE SOURCE... PUMPED WELL (NW OF MARICOPA MTS-J)
 WELL/SPRING NUMBER..... 03S-04W-22-DDD
LOCATION
 COUNTRY..... UNITED STATES 03S 004W 22 SE OF SE SE
 STATE..... ARIZONA 8&M GILA AND SALT RIVER
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... COTTON CENTER 1162500

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

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

ISOTOPES (U/100)

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 MU... SE... 0.063
 B.... 1.76 F..... 2.9 NA... 606.4 SI02. 26.08
 BA.... 0.65
 BE.... FE(TOT). 0.13 NB... S04.. 498.1
 BI.... GA..... NH4.. L 0.05 SR... 4.06
 CA.... 272.7 HCO3.... 131.9 NO3.. 100.5
 CA+MG. HG..... 0.0011
 CD.... H2S..... PO4.. N
 CL.... 1149.
 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

GEO THERM SAMPLE FILE

GEO THERM FILE 10: 0018053

NAME OF SAMPLE SOURCE... PUMPED WELL (NW OF SADDLE MTN.-J)
 WELL/SPRING NUMBER..... 02N-09W-34-DBB
LOCATION
 COUNTRY..... UNITED STATES 02N 009W 34 NW OF NW SE
 STATE..... ARIZONA 8&M GILA AND SALT RIVER
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... CORTEZ PEAK 1162500

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

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

ISOTOPES (U/100)

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

RE.... FE(TOT). L 0.1 NH... 504.. 160.9
 CA.... 17.4 HCO3.... 209.3
 CD.... H2S..... PO4.. 0.34
 CL.... 57.1
 CO.... K..... 5.5
 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 00095

GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0018089

NAME OF SAMPLE SOURCE... PUMPED WELL (SE OF BUCKEYE HILLS)
 WELL/SPRING NUMBER..... 03S-04E-09-0A

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 03S 004W 09 NE OF SE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... COTTON CENTER 1162500

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

ISOTOPES (0/00)

ANALYSIS IN PPM

AG.... CO3.... N
 AL.... CR..... MG... 26.1
 B.... 1.38 F..... 3.48 NA... 406.9 SI02. 24.90
 HE.... FE(TOT). 0.13 NH... 504.. 344.9
 CA.... 167.3 HCO3.... 163.5
 CD.... H2S..... PO4.. N
 CL.... 711.5
 CO.... K..... 9.0

REFERENCE AND IDENTIFICATION

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

RECORD 00096

GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0018052

NAME OF SAMPLE SOURCE... PUMPED WELL (SOUTH OF TONOPAH)
 WELL/SPRING NUMBER..... 02N-07W-26-ADB

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02N 007W 26 NW OF SE NE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... ARLINGTON 1162500

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

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 49.4

WATER ANALYSIS

PH..... 8.0
 ALKALINITY..... 102.5 AS HCO₃
 TOTAL DISSOLVED SOLIDS... 612.
 CHARGE IMBALANCE (% DIFF)... 4.1

ANALYSIS IN PPM

ISOTOPES (0/00)

AG.... L 0.06	CO ₃ N	LI...	0.29		
AL.... L 1.0	CR.....	MG...	0.7		
AS.... 0.074					
AIU....	CU..... L 0.1	MU...		SE...	0.005
H.... 0.73	F..... 5.07	NA...	229.9	SI02..	23.5
HA.... L 0.4					
HE....	FE(TOT).. 8.74	NH...		SO4..	79.2
HI....	GA.....	NH4..	0.2	SR...	0.02
CA.... 15.	HCO ₃ 102.5	NO3..	0.29		
CA+MG..	HG..... 0.0005				
CD....	H ₂ S..... L 0.1	PO4..	0.12		
CL.... 243.9					
CO....	K..... 2.3	ZN...	0.24		

QUALIFICATION FIELD..... NO₃ EQUALS NO₂ + NO₃. 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 00097

GEOtherm SAMPLE FILE

GEOtherm FILE ID: 0018043

NAME OF SAMPLE SOURCE... PUMPED WELL (WEST OF GLENDALE)

WELL/SPRING NUMBER..... 02N-01E-02-DDD

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02N 001E 02 SE OF SE SE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..

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

MAP REFERENCE..... GLENDALE 1124000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 30.0

WATER ANALYSIS

PH..... 8.38
 ALKALINITY..... 126.9 AS HCO₃
 TOTAL DISSOLVED SOLIDS... 464.
 CHARGE IMBALANCE (% DIFF)... 8.3

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO ₃ N				
AL....	CR.....	MG...	21.		
H.... 0.35	F..... L 0.2	NA...	62.3	SI02..	22.5
HE....	FE(TOT).. L 0.1	NH...		SO4..	40.3
CA.... 31.3	HCO ₃ 126.9				
CD....	H ₂ S.....	PO4..	0.03		
CL.... 95.4					
CO....	K..... 3.9				

REFERENCE AND IDENTIFICATION

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

RECORD 00098

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0018238

NAME OF SAMPLE SOURCE... UNNAMED WELL
WELL/SPRING NUMBER..... 02N-01W-30-CAA2

LOCATION TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02N 001W 30 NE OF NE SW
STATE..... ARIZONA 86M: GILA AND SALT RIVER
COUNTY..... MARICOPA
MAP REFERENCE..... PERRYVILLE 1124000

LAT/LONG... 33-23.9 N

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.
ALKALINITY..... 181. AS HCO3
TOTAL DISSOLVED SOLIDS... 905.

ANALYSIS IN PPM

ISOTOPES (0/00)

AG.... CO3.... N
AL.... CR.... MG... 59.
B.... F.... NA... 111.
HF.... FE(TOT)... NB... 170.
CA.... 106. HCO3.... 181. NO3... 22.
CL.... 256.

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

QUALIFICATION FIELD..... DISCHARGE MEASURED 8/41.

REFERENCE AND IDENTIFICATION

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

RECORD 00099

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0018236

NAME OF SAMPLE SOURCE... UNNAMED WELL
WELL/SPRING NUMBER..... 02N-01W-19-CBB2

LOCATION TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02N 001W 19 NW OF NW SW
STATE..... ARIZONA 86M: GILA AND SALT RIVER
COUNTY..... MARICOPA
MAP REFERENCE..... WADDELL 1124000

LAT/LONG... 33-30.05 N 112-24.50 W

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.
ALKALINITY..... 156. AS HCO3
TOTAL DISSOLVED SOLIDS... 670.

ANALYSIS IN PPM

ISOTOPES (0/00)

AG.... CO3.... N
AL.... CR.... MG... 33.

H..... F..... NA... 90.
 HE..... FE(TOT). NB... 504.. 118.
 CA..... 61. MC03.... 156. NO3.. 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

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018140

NAME OF SAMPLE SOURCE... UNNAMED WELL (EAST OF CENTENIAL FARMS)

WELL/SPRING NUMBER..... 01N-10W-01-DCC

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 01N 010W 01 SW OF SW SE

STATE..... ARIZONA

B&M: 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.

ALKALINITY..... 327. AS MC03

ANALYSIS IN MG/L

AG.... C03..... N

CA.... MC03.... 327.

CL.... 98.

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.

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

REFERENCE..... DENIS, 1971

RECORD 00101

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018240

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

WELL/SPRING NUMBER..... 02N-02W-02-ABA2

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02N 002W 01 NE OF NW NE

STATE..... ARIZONA

B&M: 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.

ALKALINITY..... 120. AS MC03

TOTAL DISSOLVED SOLIDS... 356.
ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO3..... N	MG...	4.		
AL....	CR.....	NA...	98.		
H....	F..... 1.2	NB...		504..	75.
HE....	FE(TOT).	NO3..	3.		
CA.... 8.	HCO3.... 120.				
CL.... 48.					

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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018270

NAME OF SAMPLE SOURCE... UNNAMED WELL (NE OF BEARDSLEY)

WELL/SPRING NUMBER..... 04N-01W-29-AAA

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY.....	UNITED STATES	04N 001W 29	NE OF NE NE
STATE.....	ARIZONA	B&M: GILA AND SALT RIVER	
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 HCO3
TOTAL DISSOLVED SOLIDS... 320.

ISOTOPES (0/00)

AL....	CR.....	MG...	6.		
H....	F..... 1.7	NA...	75.		
HE....	FE(TOT).	NB...		504..	59.
CA.... 24.	HCO3.... 151.	NO3..	5.		
CL.... 38.					

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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018269

NAME OF SAMPLE SOURCE... UNNAMED WELL (NE OF BEARDSLEY)

WELL/SPRING NUMBER..... 04N-01W-29-AAA

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY.....	UNITED STATES	04N 001W 29	NE OF NE NE
STATE.....	ARIZONA	B&M: GILA AND SALT RIVER	
COUNTY.....	MARICOPA		

MAP REFERENCE..... MCMICKEN DAM 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 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

ISOTOPES (0/00)

AG....	CO3..... N			
AL....	CR.....	MG...	8.	
B....	F.....	NA...	67.	
HE....	FE(TOT).	NB...		
CA.... 38.	HCO3.... 227.		504..	30.
CL.... 38.				

OTHER ANALYTICAL DATA... CACO3=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

RECORD 00104

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0018260

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

LOCATION

TOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES	03N 002W 25	NE OF NE NW	LAT/LONG... 33-34.85 N 112-25.08 W
STATE..... ARIZONA	B&M: GILA AND SALT RIVER		
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

ISOTOPES (0/00)

AL....	CR.....	MG...	3.	
H....	F..... 0.8	NA...	53.	
HE....	FE(TOT).	NB...		
CA.... 6.	HCO3.... 112.	NU3..	5.	
CL.... 19.			504..	18.

OTHER ANALYTICAL DATA... CACO3=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

RECORD 00105

 GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0018259

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

WELL/SPRING NUMBER..... 03N-02W-25-BAA

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 03N 002W 25 NE OF NE NW
STATE..... ARIZONA B&M: GILA AND SALT RIVER

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

COUNTY..... MARICOPA

MAP REFERENCE..... WADDELL 1124000

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.

ALKALINITY..... 137. AS HCO3

TOTAL DISSOLVED SOLIDS... 267.

ANALYSIS IN PPM

ISOTOPES (0/00)

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

B.... F.....

NA... 62.

RE.... FE(TOT)...

NB...

SO4.. 30.

CA.... 15. HCO3.... 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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018130

NAME OF SAMPLE SOURCE... UNNAMED WELL (NORTH OF MARY E RANCH)

WELL/SPRING NUMBER..... 02N-09W-14-BBB

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02N 009W 14 NW OF NW NW
STATE..... ARIZONA B&M: GILA AND SALT RIVER

LAT/LONG... 33-31.130N 113-09.590W

COUNTY..... MARICOPA

UTM ZONE... 12

GEOLOGIC PROVINCE..

NORTHING... 3710703.

MAP REFERENCE..... BIGHORN MOUNTAINS 1162500

299403.

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.

ALKALINITY..... 154. AS HCO3

TOTAL DISSOLVED SOLIDS... 460.

ANALYSIS IN PPM

ISOTOPES (0/00)

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

AL.... CR.....

MG... 21.

B.... F..... 1.3

NA...

SI02. 41.

HA.... FE+3...

NA+K...

SO4.. 111.

HE.... FE(TOT)...

NB...

CA.... 25. HCO3.... 154.

NO3.. 8.9

CL.... 78.

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.

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

RECORD 00107

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0018262

NAME OF SAMPLE SOURCE... UNNAMED WELL (NW OF BEARDESELY)

WELL/SPRING NUMBER..... 04N-01W-19-BAA

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 04N 001W 19 NE OF NE NW

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

STATE..... ARIZONA

86M1 GILA AND SALT RIVER

COUNTY..... MARICOPA

MAP REFERENCE..... MCMICKEN DAM 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1962/10/04

TEMPERATURE (C)..... 31.1

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

DISCHARGE..... 4428. L/MIN.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 510.

ALKALINITY..... 153.

AS HCO3

TOTAL DISSOLVED SOLIDS... 380.

ANALYSIS IN PPMISOTOPIES (0/00)

AG....

CO3..... N

AL....

CR.....

MG... 8.

R....

F..... 0.8

NA... 67.

BE....

FE(TOT)...

NB...

504.. 52.

CA.... 22.

HCO3.... 153.

NO3.. 3.

CL.... 35.

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

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0018261

NAME OF SAMPLE SOURCE... UNNAMED WELL (NW OF BEARDESELY)

WELL/SPRING NUMBER..... 04N-01W-19-BAA

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 04N 001W 19 NE OF NE NW

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

STATE..... ARIZONA

86M1 GILA AND SALT RIVER

COUNTY..... MARICOPA

MAP REFERENCE..... MCMICKEN DAM 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1939/05/02

TEMPERATURE (C)..... 31.1

WELL DEPTH (M)..... 180.

DISCHARGE..... 6927. L/MIN.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 510.

ALKALINITY..... 163.

AS HCO3

TOTAL DISSOLVED SOLIDS... 331.

ANALYSIS IN PPMISOTOPIES (0/00)

AG....

CO3..... N

AL....	CR.....	MG...	4.		
R.....	F.....	NA...	62.		
RE.....	FE(TOT)...	NB...		S04..	30.
CA.... 30.	HCO3.... 163.	NO3..	2.7		
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

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018264

NAME OF SAMPLE SOURCE... UNNAMED WELL (NW OF BEARDSELY-2)
 WELL/SPRING NUMBER..... 04N-01W-20-BCB

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY.....	UNITED STATES	04N 001W 20	NW OF SW NW	LAT/LONG...	33-40.70 N 112-23.60 W
STATE.....	ARIZONA	86M	GILA AND SALT RIVER		
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.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 570.
 ALKALINITY..... 144. AS HCO3
 TOTAL DISSOLVED SOLIDS... 337.

ANALYSIS IN PPMISOTOPES (0/001)

AL....	CR.....	MG...	10.		
R.....	F..... 1.6	NA...	71.		
RE.....	FE(TOT)...	NB...		S04..	69.
CA.... 26.	HCO3.... 144.	NO3..	4.		
CL.... 45.					

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

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018263

NAME OF SAMPLE SOURCE... UNNAMED WELL (NW OF BEAROSELY-2)
 WELL/SPRING NUMBER..... 04N-01W-20-BCB

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY.....	UNITED STATES	04N 001W 20	NW OF SW NW	LAT/LONG...	33-40.70 N 112-23.60 W
STATE.....	ARIZONA	86M	GILA AND SALT RIVER		
COUNTY.....	MARICOPA				
MAP REFERENCE.....	MCMICKEN DAM 1124000				

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1979/05/02
 TEMPERATURE (C)..... 32.7
 WELL DEPTH (M)..... 168.

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

WATER ANALYSIS

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

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO3..... N				
AL....	CR.....	MG...	8.		
B....	F.....	NA...	95.		
RE....	FE(TOT).	NB...		S04..	90.
CA.... 23.	HCO3.... 168.	NO3..	3.7		
CL.... 44.					

OTHER ANALYTICAL DATA... CACO3=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

RECORD 00111

GEOHEM SAMPLE FILE

GEOHEM FILE 101 0018265

NAME OF SAMPLE SOURCE... UNNAMED WELL (NW OF HEARDSLEY-3)

WELL/SPRING NUMBER..... 04N-01W-20-CCD

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 04N 001W 20 SE OF SW SW
 STATE..... ARIZONA 86MI GILA AND SALT RIVER
 COUNTY..... MARICOPA
 MAP REFERENCE..... MCMICKEN DAM 1124000

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

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

ISOTOPES (0/00)

AL....	CR.....	MG...	4.		
B....	F.....	NA...	101.		
RE....	FE(TOT).	NB...		S04..	100.
CA.... 30.	HCO3.... 171.				
CL.... 46.					

OTHER ANALYTICAL DATA... CACO3=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

RECORD 00112

GEOHEM SAMPLE FILE

GEOHEM FILE 101 0018266

NAME OF SAMPLE SOURCE... UNNAMED WELL (NW OF HEARDSLEY-3)

WELL/SPRING NUMBER..... 04N-01W-20-CCD

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 04N 001W 20 SE OF SW SW LAT/LONG... 33-40.1 N 112-23.4 W
 STATE..... ARIZONA 86M: GILA AND SALT RIVER
 COUNTY..... MARICOPA
 MAP REFERENCE..... MCMICKEN 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.
 ALKALINITY..... 148. AS HCO3
 TOTAL DISSOLVED SOLIDS... 363.
ANALYSIS IN PPM
 AL..... CR..... MG... 11.
 B..... F..... 1.0 NA... 75.
 HE..... FE(TOT)... NB...
 CA..... 27. HCO3.... 148. NO3... 7.
 CL..... 49. S04... 74.
 OTHER ANALYTICAL DATA... CACO3=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 (0/00)

RECORD 00113

GEO THERM SAMPLE FILE

GEO THERM FILE 101 0018268

NAME OF SAMPLE SOURCE... UNNAMED WELL (NW OF LIZARD ACRES)
 WELL/SPRING NUMBER..... 04N-01W-28-BAA
LOCATION TOWNSHIP-RANGE COORDINATES
 COUNTRY..... UNITED STATES 04N 001W 28 NE OF NE NW LAT/LONG... 33-40.03 N 112-22.08 W
 STATE..... ARIZONA 86M: 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.
 ALKALINITY..... 203. AS HCO3
 TOTAL DISSOLVED SOLIDS... 358.
ANALYSIS IN PPM
 AL..... CR..... MG... 10.
 B..... F..... 0.8 NA... 60.
 HE..... FE(TOT)... NB...
 CA..... 31. HCO3.... 203. NO3... 4.
 CL..... 30. S04... 34.
 OTHER ANALYTICAL DATA... CACO3=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 (0/00)

RECORD 00114

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0018267

NAME OF SAMPLE SOURCE... UNNAMED WELL (NW OF LIZARD ACRES)

WELL/SPRING NUMBER..... 04N-01W-28-BAA

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 04N 001W 28 NE OF NE NW

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

STATE..... ARIZONA

B&M: GILA AND SALT RIVER

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.

AS HCO3

TOTAL DISSOLVED SOLIDS... 390.

ANALYSIS IN PPM

ISOTOPIES (0/00)

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

AL.... CR.....

MG... 11.

B.... F.....

NA... 40.

BE.... FE(TOT)...

NH... 20.

CA.... 53. HCO3.... 224.

NO3.. 6.

CL.... 42.

OTHER ANALYTICAL DATA... CACO3=177.. SAR=1.3

REFERENCE AND IDENTIFICATION

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

REFERENCE..... KAM AND OTHERS. 1966

RECORD 00115

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0018248

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

WELL/SPRING NUMBER..... 02N-02W-25-DAA2

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02N 002W 25 NE OF NE SE

LAT/LONG... 33-29.20 N 112-25.53 W

STATE..... ARIZONA

B&M: GILA AND SALT RIVER

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.

AS HCO3

TOTAL DISSOLVED SOLIDS... 519.

ANALYSIS IN PPM

ISOTOPIES (0/00)

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

AL.... CR.....

MG... 5.

B.... F.....

NA... 141.

BE.... FE(TOT)...

NH... 112.

CA.... 18. HCO3.... 127.

NO3.. 18.

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

GEOTHERM FILE ID: 0018247

NAME OF SAMPLE SOURCE... UNNAMED WELL (SE OF MCMICKEN)
 WELL/SPRING NUMBER..... 02N-02W-25-DAA2
 LOCATION
 COUNTRY..... UNITED STATES 02N 002W 25 NE OF NE SE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MARICOPA
 MAP REFERENCE..... PERRYVILLE 1:24000
 COORDINATES
 LAT/LONG... 33-29.20 N 112-25.53 W
 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..... 183. AS HCO3
 TOTAL DISSOLVED SOLIDS... 792.
 ANALYSIS IN PPM
 AG.... CO3.... N
 AL.... CR.... MG... 19.
 B.... F.... NA... 183.
 BE.... FE(TOT)... NB...
 CA.... 38. HCO3.... 183. NO3.. 31. S04.. 230.
 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 (0/00)

RECORD 00117

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0018239

NAME OF SAMPLE SOURCE... UNNAMED WELL (SOUTH OF CASEY PARK-2)
 WELL/SPRING NUMBER..... 02N-01W-30-CAA2
 LOCATION
 COUNTRY..... UNITED STATES 02N 001W 30 NE OF NE SW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 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..... 1750.

ALKALINITY..... 117.

AS HCO3

TOTAL DISSOLVED SOLIDS... 974.

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO3..... N			
AL....	CR.....	MG...	43.	
R....	F.....	NA...	178.	
BE....	FE(TOT).	NB...		504.. 198.
CA.... 87.	HCO3.... 117.	NO3..	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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018243

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

WELL/SPRING NUMBER..... 02N-02W-15-AAA

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 02N 002W 15 NE OF NE NE LAT/LONG... 33-31.33 N 112-26.62 W

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

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

ISOTOPES (0/00)

AG....	CO3..... N			
AL....	CR.....	MG...	4.	
R....	F.....	NA...	53.	
BE....	FE(TOT).	NB...		504.. 30.
CA.... 15.	HCO3.... 139.			
CL.... 16.				

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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018237

NAME OF SAMPLE SOURCE... UNNAMED WELL (SOUTH OF LUKE AIR FORCE BASE-2)

WELL/SPRING NUMBER..... 02N-01W-19-DBB2

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 02N 001W 19 NW OF NW SE LAT/LONG... 33-30.05 N 112-23.92 W

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

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.
 ALKALINITY..... 152. AS HCO3
 TOTAL DISSOLVED SOLIDS... 528.
 ANALYSIS IN PPM

ISOLOPES (0/00)

AG....	CO3..... N			
AL....	CR.....	MG...	17.	
H.....	F.....	NA...	116.	
HE....	FE(TOT).	NB...		504.. 90.
CA.... 27.	HCO3.... 152.	NO3..	8.	
CL.... 118.				

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

RECORD 00120

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL (SOUTH OF LUKE AIR FORCE BASE-3)
 WELL/SPRING NUMBER..... 02N-01W-19-AA82

GEO THERM FILE ID: 0018235

LOCATION

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

TOWNSHIP-RANGECOORDINATES

02N 001W 19 NW OF NE NE
 B&M GILA AND SALT RIVER
 LAT/LONG... 33-30.48 N 112-23.70 W

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 HCO3
 TOTAL DISSOLVED SOLIDS... 559.
 ANALYSIS IN PPM

ISOLOPES (0/00)

AG....	CO3..... N			
AL....	CR.....	MG...	16.	
H.....	F.....	NA...	123.	
RE....	FE(TOT).	NB...		504.. 65.
CA.... 32.	HCO3.... 166.	NO3..	10.	
CL.... 139.				

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

RECORD 00121

GEOHERM SAMPLE FILE

GEOHERM FILE 101 0018246

NAME OF SAMPLE SOURCE... UNNAMED WELL (SOUTH OF MCMICKEN)
 WELL/SPRING NUMBER..... 02N-02W-25-CBB2
 LOCATION
 COUNTRY..... UNITED STATES 02N 002W 25 NW OF NW SW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... PERRYVILLE 1124000

COORDINATES

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

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

ISOTOPES (0/00)

AG....	CO3..... N			
AL....	CR.....	MG...	8.	
B....	F.....	NA...	94.	
HE....	FE(TOT)...	NB...		
CA.... 53.	HCO3..... 142.	NO3...	38.	S04.. 80.
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

RECORD 00122

GEOHERM SAMPLE FILE

GEOHERM FILE 101 0018241

NAME OF SAMPLE SOURCE... UNNAMED WELL (SOUTHEAST OF CITRUS PARK)
 WELL/SPRING NUMBER..... 02N-02W-11-BAA
 LOCATION
 COUNTRY..... UNITED STATES 02N 002W 11 NE OF NE NW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MARICOPA
 MAP REFERENCE..... WADDELL 1124000

COORDINATES

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

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

ISOTOPES (0/00)

AL....	CR.....	MG...	4.
H....	F.....	NA...	42.

RE.... FE(TOT). NB... S04.. 10.
 CA.... 23. HCO3.... 139.
 CL.... 24.
 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

GEOHEM SAMPLE FILE

GEOHEM FILE ID: 0018242

NAME OF SAMPLE SOURCE... UNNAMED WELL (SOUTHEAST OF CITRUS PARK)
 WELL/SPRING NUMBER..... 02N-02W-11-BAA
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE COORDINATES
 STATE..... ARIZONA 02N 002W 11 NE OF NE NW LAT/LONG... 33-32.22 N 112-26.10 W
 COUNTY..... MARICOPA B&M: GILA AND SALT RIVER
 MAP REFERENCE..... WADDELL 1:24000
 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..... 1.3 NA... 47.
 HE.... FE(TOT). S04.. 20.
 CA.... 18. HCO3.... 116. NO3.. 19.
 CL.... 29.

ISOTOPES (0/00)

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

GEOHEM SAMPLE FILE

GEOHEM FILE ID: 0018253

NAME OF SAMPLE SOURCE... UNNAMED WELL (SW OF BEARDSLEY)
 WELL/SPRING NUMBER..... 03N-01W-06-BAA
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE COORDINATES
 STATE..... ARIZONA 03N 001W 06 NE OF NE NW LAT/LONG... 33-38.30 N 112-24.15 W
 COUNTY..... MARICOPA B&M: GILA AND SALT RIVER
 MAP REFERENCE..... MCMICKEN DAM 1:24000
 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

ISOTOPIES (0/00)

AL....	CR.....	MG...	10.		
R.....	F..... 0.6	NA...	53.		
RE....	FE(TOT).	NB...		504..	46.
CA.... 19.	HCO3.... 114.	NU3..	9.		
CL.... 38.					

OTHER ANALYTICAL DATA... CACO3=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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018252

NAME OF SAMPLE SOURCE... UNNAMED WELL (SW OF BEARDSLEY)

WELL/SPRING NUMBER..... 03N-01W-06-BAA

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY.....	UNITED STATES	03N 001W 06	NE OF NE NW	LAT/LONG...	33-38.30 N 112-24.15 W
STATE.....	ARIZONA	B&M	GILA AND SALT RIVER		
COUNTY.....	MARICOPA				
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.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 480.

ALKALINITY..... 185. AS HCO3

ANALYSIS IN PPM

ISOTOPIES (0/00)

AG....	CO3..... N				
AL....	CR.....	MG...	8.		
R.....	F.....	NA...	87.		
RE....	FE(TOT).	NB...		504..	80.
CA.... 30.	HCO3.... 185.				
CL.... 42.					

OTHER ANALYTICAL DATA... CACO3=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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018273

NAME OF SAMPLE SOURCE... UNNAMED WELL (SW OF BEARDSLEY)

WELL/SPRING NUMBER..... 04N-02W-26-DDD

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY.....	UNITED STATES	04N 002W 26	SE OF SE SE	LAT/LONG...	33-39.22 N 112-25.58 W
STATE.....	ARIZONA				
COUNTY.....	MARICOPA				
MAP REFERENCE.....	MCMICKEN DAM 1:24000				

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1962/10/04
 TEMPERATURE (C)..... 30.6
 WELL DEPTH (M)..... 305.
 DISCHARGE..... 3293. L/MIN.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 310.
 ALKALINITY..... 145. AS HCO3
 TOTAL DISSOLVED SOLIDS... 190.
 ANALYSIS IN PPM

ISOTOPES (0/00)

AL....	CR.....	MG...	5.		
H.....	F..... 0.7	NA...	45.		
HE....	FE(TOT).	NB...		504..	14.
CA.... 12.	HCO3.... 145.	NO3..	3.		
CL.... 8.					

OTHER ANALYTICAL DATA... CACO3=52. 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

RECORD 00127

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL (SW OF BEARDSLEY-2)
 WELL/SPRING NUMBER..... 03N-02W-01-AAA

GEOTHERM FILE ID: 0018254

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	03N 002W 01	NE OF NE NE	LAT/LONG...	33-38.13 N 112-24.57 W
STATE.....	ARIZONA	B&M: GILA AND SALT RIVER			
COUNTY.....	MARICOPA				
MAP REFERENCE.....	MCMICKEN 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.
 ALKALINITY..... 154. AS HCO3
 TOTAL DISSOLVED SOLIDS... 287.
 ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO3..... N				
AL....	CR.....	MG...	8.		
H.....	F.....	NA...	48.		
HE....	FE(TOT).	NB...		504..	30.
CA.... 23.	HCO3.... 154.	NO3..	2.7		
CL.... 24.					

OTHER ANALYTICAL DATA... CACO3=90. 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

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL (SW OF BEARDSLEY-2)

GEOTHERM FILE ID: 0018255

WELL/SPRING NUMBER..... 03N-02W-01-AAA

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 03N 002W 01 NE OF NE NE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MARICOPA

LAT/LONG... 33-38.13 N 112-24.57 W

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

ISOTOPE5 (0/00)

AG....	CO3..... N				
AL....	CR.....	MG...	10.		
H....	F..... 0.5	NA...	40.		
HE....	FE(TOT).	NB...		504..	25.
CA.... 22.	HCO3.... 127.	NO3..	13.		
CL.... 29.					

OTHER ANALYTICAL DATA... CACO3=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

RECORD 00129

GEO THERM SAMPLE FILE

GEO THERM FILE 10: 0018256

NAME OF SAMPLE SOURCE... UNNAMED WELL (SW OF BEARDSLEY-3)

WELL/SPRING NUMBER..... 03N-02W-02-BAA

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 03N 002W 02 NE OF NE NW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MARICOPA

LAT/LONG... 33-38.18 N 112-26.12 W

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

ISOTOPE5 (0/00)

AG....	CO3..... N				
AL....	CR.....	MG...	8.		
H....	F.....	NA...	36.		
HE....	FE(TOT).	NB...		504..	30.
CA.... 30.	HCO3.... 149.	NO3..	4.9		
CL.... 22.					

OTHER ANALYTICAL DATA... CACO3=108., SAR=1.5

QUALIFICATION FIELD..... DISCHARGE MEASURED 1/39.

REFERENCE AND IDENTIFICATION

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

RECORD 00130

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018257

NAME OF SAMPLE SOURCE... UNNAMED WELL (SW OF BEARDSLEY-3)
 WELL/SPRING NUMBER..... 03N-02W-02-BAA

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 03N 02W 02 NE OF NE NW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MARICOPA
 MAP REFERENCE..... MCMICKEN DAM 1124000

LAT/LONG... 33-38.18 N 112-26.12 W

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 PPMISOIOPES (0/00)

AL.....	CR.....	MG...	9.		
B.....	F.....	NA...	35.		
BE.....	FE(TOT)...	NB...		S04..	20.
CA..... 17.	HCO3..... 122.	NO3...	9.		
CL..... 18.					

OTHER ANALYTICAL DATA... CAC03=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

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018272

NAME OF SAMPLE SOURCE... UNNAMED WELL (SW OF BEARDSLEY-4)
 WELL/SPRING NUMBER..... 04N-01W-30-DCD

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 04N 01W 30 SE OF SW SE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MARICOPA
 MAP REFERENCE..... MCMICKEN DAM 1124000

LAT/LONG... 33-39.22 N 112-23.94 W

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 PPMISOIOPES (0/00)

AL.....	CR.....	MG...	12.		
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R..... F..... 0.7 NA... 60.
 RE..... FE(TOT). NB... 57.
 CA..... 20. HCO3.... 134. NO3.. 6.
 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

GEO THERM SAMPLE FILE

GEO THERM FILE 101 0018271

NAME OF SAMPLE SOURCE... UNNAMED WELL (SW OF BEARDSLEY-4)

WELL/SPRING NUMBER..... 04N-01W-30-DCO

LOCATION

COORDINATES

COUNTRY..... UNITED STATES 04N 001W 30 SE OF SW SE

LAT/LONG... 33-39.22 N 112-23.94 W

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

COUNTY..... MARICOPA

MAP REFERENCE..... MCMICKEN DAM 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1939/11/04

TEMPERATURE (C)..... 31.1

WELL DEPTH (M)..... 158.

DISCHARGE..... 8024. L/MIN.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 510.

ALKALINITY..... 166. AS HCO3

TOTAL DISSOLVED SOLIDS... 376.

ANALYSIS IN PPM

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

R..... F..... NA... 76.

RE..... FE(TOT). NB... 57.

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

GEO THERM SAMPLE FILE

GEO THERM FILE 101 0018250

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

WELL/SPRING NUMBER..... 02N-02W-27-CCC

LOCATION

COORDINATES

COUNTRY..... UNITED STATES 02N 002W 27 SW OF SW SW

LAT/LONG... 33-28.75 N 112-27.62 W

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

COUNTY..... MARICOPA

MAP REFERENCE..... PERRYVILLE 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1962/09/18

TEMPERATURE (C)..... 30.6

WELL DEPTH (M)..... 305.

DISCHARGE..... 2120. L/MIN.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 380.

ANALYSIS IN PPMISOTOPIES (0/00)

AL.....	CR.....	MG...	7.		
B.....	F.....	NA...	45.		
BE.....	FE(TOT).	NB...		504..	20.
CA.....	HCO3....	NO3..	11.		
CL.....					

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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018249

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

WELL/SPRING NUMBER..... 02N-02W-27-CCC

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY.....	UNITED STATES	02N 002W 27	SW OF SW SW	LAT/LONG...	33-28.75 N 112-27.62 W
STATE.....	ARIZONA	B&M:	GILA AND SALT RIVER		
COUNTY.....	MARICOPA				

MAP REFERENCE..... PERRYVILLE 1124000

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 PPMISOTOPIES (0/00)

AG.....	CO3.....	N			
B.....	F.....	NA...	53.		
BE.....	FE(TOT).	NB...		504..	20.
CA.....	HCO3....		151.		
CL.....					

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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018251

NAME OF SAMPLE SOURCE... UNNAMED WELL (SW OF MCMICKEN-2)

WELL/SPRING NUMBER..... 02N-02W-36-BBB2

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY.....	UNITED STATES	02N 002W 36	NW OF NW NW	LAT/LONG...	33-28.72 N 112-25.55 W
STATE.....	ARIZONA	B&M:	GILA AND SALT RIVER		
COUNTY.....	MARICOPA				

MAP REFERENCE..... PERRYVILLE 1124000

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.		
BE....	FE(TOT).	NB...		504..	87.
CA.... 18.	HCO3.... 103.	NO3..	19.		
CL.... 73.					

ISOTOPES (0/00)

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

RECORD 00136

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018258

NAME OF SAMPLE SOURCE... UNNAMED WELL (SW OF WADDELL)

WELL/SPRING NUMBER..... 03N-02W-22-AAA

LOCATION

TOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES	03N 002W 22	NE OF NE NE	LAT/LONG... 33-35.68 N 112-26.65 W
STATE..... ARIZONA	B&M: GILA AND SALT RIVER		
COUNTY..... MARICOPA			
MAP REFERENCE..... WADDELL 1124000			

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.		
BE....	FE(TOT).	NB...		504..	30.
CA.... 23.	HCO3.... 139.				
CL.... 20.					

ISOTOPES (0/00)

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

RECORD 00137

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018234

NAME OF SAMPLE SOURCE... UNNAMED WELL (WEST OF LUKE AIR FORCE BASE)

WELL/SPRING NUMBER..... 02N-01W-18-BBB2

LOCATION

TOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 02N 001W 18 NW OF NW NW LAT/LONG... 33-31.33 N 112-24.50 W
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MARICOPA
 MAP REFERENCE..... WADDELL 1124000
 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 HCO3
 TOTAL DISSOLVED SOLIDS... 1780.
 ANALYSIS IN PPM
 AL..... CR..... MG... 96.
 H..... F..... 0.3 NA... 148.
 RE..... FE(TQT)... NB...
 CA..... 254. HCO3.... 155. NO3.. 116. 504.. 502.
 CL..... 430.
 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

ISOTOPES (0/00)

RECORD 00138

GEO THERM SAMPLE FILE GEOTHERM FILE ID: 0018143
 NAME OF SAMPLE SOURCE... UNNAMED WELL (WEST OF SADDLE MTN.-11)
 WELL/SPRING NUMBER..... 01N-09W-21-BCC2
LOCATION TOWNSHIP-RANGE COORDINATES
 COUNTRY..... UNITED STATES 01N 009W 21 SW OF SW NW LAT/LONG... 33-24.83 N 113-11.70 W
 STATE..... ARIZONA B&M: GILA AND SALT RIVER UTM ZONE... 12
 COUNTY..... MARICOPA NORTHING... 3698851.
 GEOLOGIC PROVINCE.. 295909.
 MAP REFERENCE..... CORTEZ PEAK 1162500
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 HCO3
 ANALYSIS IN MG/L
 AG..... CO3..... N
 CA..... HCO3.... 253.
 CL..... 92.
 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

ISOTOPES (0/00)

RECORD 00139

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0018172

NAME OF SAMPLE SOURCE... UNNAMED WELL EAST OF BLECHA RANCH (2/2)
 WELL/SPRING NUMBER..... 02N-09W-13-BAA
 LOCATION
 COUNTRY..... UNITED STATES 02N 009W 13 NE OF NE NW
 STATE..... ARIZONA 86M: GILA AND SALT RIVER
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..

COORDINATES

LAT/LONG... 33-31.32 N 113-08.10 W
 UTM ZONE... +12
 NORTHING... 3710645.
 302198.

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

ISOTOPES (0/00)

AG....	CO3..... N				
AL....	CR.....	MG...	9.	SI02.	44.
R....	F..... 3.6	NA...			
BA....	FE+3....	NA+K.	108.		
HE....	FE(TOT).. 0.02	NB...		SO4..	91.
CA.... 30.	HCO3.... 136.				
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

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0018171

NAME OF SAMPLE SOURCE... UNNAMED WELL EAST OF BLECHA RANCH (1/2)
 WELL/SPRING NUMBER..... 02N-09W-13-BAA
 LOCATION
 COUNTRY..... UNITED STATES 02N 009W 13 NE OF NE NW
 STATE..... ARIZONA 86M: GILA AND SALT RIVER
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..

COORDINATES

LAT/LONG... 33-31.32 N 113-08.10 W
 UTM ZONE... +12
 NORTHING... 3710645.
 302198.

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

ISOTOPES (0/00)

AG....	CO3..... N				
AL....	CR.....	MG...	9.	SI02.	41.
R....	F..... 3.6	NA...			

BA.... FE+3.... NA+K. 111.
 RE.... FE(TOT). NB... 504.. 75.
 CA.... 24. HCO3.... 146. NO3.. 6.5
 CL.... 90.

QUALIFICATION FIELD..... DISCHARGE MEASURED 1958/08/00

REFERENCE AND IDENTIFICATION

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

RECORD 00141

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018214

NAME OF SAMPLE SOURCE... UNNAMED WELL EAST OF DENDORA RANCH (1)

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 04S 008W 26 SE OF SE SE LAT/LONG... 33-02.43 N 113-02.80 W
 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.

OTHER SAMPLE INFORMATION.. REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 3210.

TOTAL DISSOLVED SOLIDS... 1840.

ANALYSIS IN PPM

ISOTOPIES (0/00)

AL....	CR....	MG...	13.		
B....	F....	NA...	5102.	38.	
BA....	FE+3....	NA+K.	534.		
HE....	FE(TOT).	NB...	504..	235.	
CA.... 123.	HCO3.... 79.	NO3..	5.9		
CL.... 850.					

OTHER ANALYTICAL DATA... CaCO3=350.

REFERENCE AND IDENTIFICATION

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

RECORD 00142

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018213

NAME OF SAMPLE SOURCE... UNNAMED WELL EAST OF DENDORA RANCH (1)

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 04S 008W 26 SE OF SE SE LAT/LONG... 33-02.43 N 113-02.80 W
 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.

OTHER SAMPLE INFORMATION.. REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 2530.

TOTAL DISSOLVED SOLIDS... 1420.

ANALYSIS IN PPM

ISOTOPE (0/00)

AL....	CR.....	MG...	12.		
H.... 1.4	F..... 5.1	NA+K.	442.		
RA....	FE+3....	NH...		504..	225.
HE....	FE(TOT).	NO3..	4.1		
CA.... 74.	HCO3.... 94.				
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

RECORD 00143

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018162

NAME OF SAMPLE SOURCE... UNNAMED WELL NEAR CENTENNIAL FARMS (2/2)

WELL/SPRING NUMBER..... 01N-10W-01-DDC

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 01N 010W 01 SW OF SE SE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..

LAT/LONG... 33-27.1 N 113-14.0 W
 UTM ZONE... +12
 NORTHING... 3703029.
 291831.

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.

ISOTOPE (0/00)

ANALYSIS IN MG/L

AG....	CO3..... N				
AL....	CR.....	MG...	6.9		
R....	F..... 3.4	NA...		5102.	30.
HA....	FE+3....	NA+K.	214.		
RE....	FE(TOT).	NH...		504..	150.
CA.... 27.	HCO3.... 284.				
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

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018161

NAME OF SAMPLE SOURCE... UNNAMED WELL NEAR CENTENNIAL FARMS (1/2)

WELL/SPRING NUMBER..... 01N-10W-01-CCC

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 01N 010W 01 SW OF SW SW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..

LAT/LONG... 33-27.02 N 113-14.84 W
 UTM ZONE... +12
 NORTHING... 3703041.
 291237.

MAP REFERENCE..... CORTEZ PEAK 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1953/06/00

TEMPERATURE (C)..... 31.

WELL DEPTH (M)..... 280.

DISCHARGE..... 6435. L/MIN

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 1070.

TOTAL DISSOLVED SOLIDS... 649.

ANALYSIS IN MG/L

AG....	CO3..... N				
AL....	CR.....	MG...	15.		
H....	F..... 2.8	NA...		SiO2.	27.
BA....	FE+3....	NA+K.	191.		
RE....	FE(TOT).	NB...		SO4..	122.
CA.... 25.	HCO3.... 302.	NO3..	1.3		
CL.... 104.					

ISOIOPES (0/00)REFERENCE AND IDENTIFICATION

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

REFERENCE..... DENIS, 1971

RECORD 00145

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF MARY E RANCH

WELL/SPRING NUMBER..... 02N-09W-14-B88

LOCATION

COUNTRY..... UNITED STATES 02N 009W 14 NW OF NW NW

STATE..... ARIZONA 86M: GILA AND SALT RIVER

COUNTY..... MARICOPA

GEOLOGIC PROVINCE..

MAP REFERENCE..... BIG HORN MTS. 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1952/07/00

TEMPERATURE (C)..... 32.

WELL DEPTH (M)..... 466.

DISCHARGE..... 9 9236. L/MIN

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 728.

TOTAL DISSOLVED SOLIDS... 459.

ANALYSIS IN MG/L

AG....	CO3..... T				
AL....	CR.....	MG...	15.		
H....	F..... 1.4	NA...		SiO2.	38.
BA....	FE+3....	NA+K.	104.		
RE....	FE(TOT).	NB...		SO4..	115.
CA.... 28.	HCO3.... 152.	NO3..	9.2		
CL.... 73.					

ISOIOPES (0/00)

QUALIFICATION FIELD..... DISCHARGE MEASURED 1966/12/00

REFERENCE AND IDENTIFICATION

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

REFERENCE..... DENIS, 1971

RECORD 00146

GEO THERM SAMPLE FILE

GEOTHERM FILE 101 0018193

NAME OF SAMPLE SOURCE... UNNAMED WELL NORTHEAST OF AQUA CALIENTE MTS.
 WELL/SPRING NUMBER..... 04S-10W-03-DAA
LOCATION TOWNSHIP-RANGE COORDINATES
 COUNTRY..... UNITED STATES 04S 010W 03 NE OF NE SE LAT/LONG... 33-06.46 N 113-16.43 W
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE.. 04
 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..... N
 H.... 0.41 F..... 5.8 NA... 206. SI02. 19.
 RE.... FE(TOT). NB... 504.. 131.
 CA.... 5.1 HCO3.... 93. NO3... 7.7
 CL.... 164.
 OTHER ANALYTICAL DATA... SAR=25. CACO3=12.
REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... WEIST, 1965

ISOIOPES (0/00)

RECORD 00147

GEO THERM SAMPLE FILE GEO THERM FILE 101 0018165
 NAME OF SAMPLE SOURCE... UNNAMED WELL NORTHWEST OF SADDLE MT. (2/2)
 WELL/SPRING NUMBER..... 02N-08W-32-BBA
LOCATION TOWNSHIP-RANGE COORDINATES
 COUNTRY..... UNITED STATES 02N 08W 32 NE OF NW NW LAT/LONG... 33-28.71 N 113-06.30 W
 STATE..... ARIZONA B&M: GILA AND SALT RIVER UTM ZONE... +12
 COUNTY..... MARICOPA NORTHING... 3705886.
 GEOLOGIC PROVINCE.. 304903.
 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
 AL.... CR..... MG... 2.8
 H.... F..... 2.5 NA... SI02. 27.
 HA.... FE+3... NA+K. 142.
 RE.... FE(TOT). 0.02 NB... 504.. 78.
 CA.... 21. HCO3.... 96.
 CL.... 147.

ISOIOPES (0/00)

REFERENCE AND IDENTIFICATION

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

RECORD 00148

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0018164

NAME OF SAMPLE SOURCE... UNNAMED WELL NORTHWEST OF SAUDLE MT. (1/2)
 WELL/SPRING NUMBER..... 02N-08W-31-AAA

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 02N 08W 31 NE OF NE NE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..

LAT/LONG... 33-28.72 N 113-06.58 W
 UTM ZONE... +12
 NORTHING... 3705906.
 303903.

MAP REFERENCE..... CORTEZ 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/LISOTOPES (0/00)

AG....	CO3..... N	MG...	8.1		
AL....	CR.....	NA...		SI02.	34.
B....	F..... 2.1	NA+K.	116.		
BA....	FE+3....	NH...		SO4..	90.
BE....	FE(TOT).	NO3..	7.4		
CA.... 22.	HCO3.... 120.				
CL.... 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

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 05S 010W 20 SE OF NW SE
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE.. 04

LAT/LONG... 32-58.0 N 113-18.5 W

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

ISOTOPES (0/00)

AL....		CR.....		MG...	3.7		
B.....	1.6	F.....	5.6	NA...		SI02.	42.
BA.....		FE+3....		NA+K.	255.		
BE.....		FE(TOT).		NB...		SO4..	187.
CA.....	27.	HCO3....	101.	NO3..	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

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0018215

NAME OF SAMPLE SOURCE... UNNAMED WELL SE OF DENDORA RANCH (1)

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 04S 008W 35 SE OF SE NW LAT/LONG... 33-02.0 N 113-03.4 W

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 PPMISOTOPES (0/00)

AL....		CR.....		MG...	28.		
B.....	3.8	F.....	6.4	NA...		SI02.	66.
BA.....		FE+3....		NA+K.	779.		
BE.....		FE(TOT).		NB...		SO4..	471.
CA.....	218.	HCO3....	132.	NO3..	21.		
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

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0018216

NAME OF SAMPLE SOURCE... UNNAMED WELL SE OF DENDORA RANCH (2)

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 04S 008W 35 NW OF NW SE LAT/LONG... 33-01.9 N 113-03.2 W

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.

TOTAL DISSOLVED SOLIDS... 1100.

ANALYSIS IN PPM

ISOTOPES (0/00)

AL....	CR.....	MG...	3.7		
H.....	F.....	NA...		SiO2.	42.
RA....	FE+3...	NA+K.	360.		
HE....	FE(TOT).	NB...		SO4..	191.
CA....	HCO3....	NO3..	5.4		
CL....					

OTHER ANALYTICAL DATA... CaCO3=95.

REFERENCE AND IDENTIFICATION

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

RECORD 00152

GEOHERM SAMPLE FILE

GEOHERM FILE 101 0018100

NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTH OF AGUA CALIENTE MTS.

WELL/SPRING NUMBER..... 055-10W-19-AA

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY.....	UNITED STATES	055 10W 19	NE OF NE.	LAT/LONG...	32-59.1	N 113-19.4	W
STATE.....	ARIZONA	B&M	GILA AND SALT RIVER	UTM ZONE...	+12		
COUNTY.....	MARICOPA			NORTHING...	3651830.		
GEOLOGIC PROVINCE..	04				282898.		
MAP REFERENCE.....	AGUA CALIENTE 1124000						

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... AZ41
 TEMPERATURE (C)..... 39.

WATER ANALYSIS

PH..... 7.67
 TOTAL DISSOLVED SOLIDS... 676.
 CHARGE IMBALANCE (% DIFF)... 1.1

ISOTOPES (0/00)

ANALYSIS IN PPM

AG....	L 0.07	CO3....	N	LI...	0.3		
AL....	L 1.1	CR.....		MG...	0.7		
AS....	0.040						
AU....		CU.....	L 0.12	MO...		SE...	0.008
B.....	1.7	F.....	6.3	NA...	214.	SiO2.	40.
HA....	L 0.2						
HE....		FE(TOT).	0.26	NB...		SO4..	135.
BI....		GA.....		NH4..	0.05	SR...	0.07
CA....	14.	HCO3....	74.	NO3..	0 5.9		
CA+MG.		HG.....	0.0009				
CD....		H2S.....		PO4..	N		
CL....	202.						
CO....		K.....	2.0				

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

REFERENCE AND IDENTIFICATION

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

RECORD 00153

GEOHERM SAMPLE FILE

GEOHERM FILE 101 0018222

NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTH OF AGUA CALIENTE MTS. (2)

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 05S 010W 19 NE OF NE LAT/LONG... 32-59.15 N 113-19.40 W
 STATE..... ARIZONA
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... AQUA CALIENTE 1124000
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.... CR..... MG... 1.2
 B.... 0.92 F..... 5.5
 BA.... FE+3.... NA+K. 226.
 HE.... FE(TOT). NB... 504.. 143.
 CA.... 10. HCO3.... 101. NO3.. 4.7
 CL.... 192.

ISOTOPES (0/00)

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

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTH OF BURNT MT.

GEO THERM FILE ID: 0018163

WELL/SPRING NUMBER..... 02N-08W-17-DAA

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 02N 08W 17 NE OF NE SE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..

LAT/LONG... 33-30.92 N 113-06.04 W
 UTM ZONE... 12
 NORTHING... 3710439.
 305597.

MAP REFERENCE..... BIG HORN MTS. 1162500

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

ISOTOPES (0/00)

AG.... CO3.... N
 AL.... CR..... MG... 8.8
 H.... F..... 5.2 SI02. 44.
 HA.... FE+3.... NA+K. 118.
 RE.... FE(TOT). NB... 504.. 72.
 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

RECORD 00155

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0018200

NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTH OF OATMAN MT.

WELL/SPRING NUMBER..... 05S-09W-12-ACD

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 05S 009W 12 SE OF SW NE

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

COUNTY..... MARICOPA

MAP REFERENCE..... DENDORA VALLEY 1162500

LAT/LONG... 33-00.41 N 113-08.32 W

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

ISOTOPES (0/001)

AG....		CO3.....	8.	LI...	0.92		
AL....		CR.....		MG...	0.2		
B....	2.0	F.....	4.0	NA...	403.	SI02.	19.
BE....		FE(TOT).		NB...		S04..	274.
CA....	46.	HCO3.....	12.	NO3..	1.7		
CL....	478.						
CO....		K.....	2.0				

OTHER ANALYTICAL DATA... CACO3=116., SAR=16.

REFERENCE AND IDENTIFICATION

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

REFERENCE..... WEIST, 1965

RECORD 00156

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0018221

NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTH OF OATMAN MTN

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 05S 009W 12 SE OF SW NE

STATE..... ARIZONA

COUNTY..... MARICOPA

MAP REFERENCE..... DENDORA VALLEY 1162500

LAT/LONG... 33-00.41 N 113-08.22 W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/06/05

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

ISOTOPES (0/001)

AL....		CR.....		MG...	3.3		
B....	1.2	F.....	4.8	NA...		SI02.	21.
HA....		FE+3....		NA+K.	421.		
RE....		FE(TOT).		NB...		S04..	314.

CA.... 55. HCO3.... 34. NO3.. 2.8
CL.... 494.

OTHER ANALYTICAL DATA... CA03=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

GEOTHERM FILE ID: 0018174

NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTH OF SADDLE MT.

WELL/SPRING NUMBER..... 01S-09W-01-CCC

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 01S 009W 01 SW OF SW SW
STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... MARICOPA
GEOLOGIC PROVINCE..

LAT/LONG... 33-21.80 N 113-08.49 W
UTM ZONE... +12
NORTHING... 3693373.
300770.

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

PH..... 7.6
SPECIFIC CONDUCTANCE..... 1190.
TOTAL DISSOLVED SOLIDS... 705.

ANALYSIS IN MG/L

ISOTOPIES (0/00)

AG....	CO3.... N				
AL....	CR....	MG...	7.1		
AR....	F.... 4.8	NA...		SI02.	27.
BA....	FE+3...	NA+K.	233.		
BE....	FE(TOT).	NB...		SO4..	140.
CA.... 14.	HCO3.... 237.	NO3..	12.		
CL.... 149.					

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

GEOTHERM FILE ID: 0018166

NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF BURNT MT. (1/5)

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02N 009W 10 NW OF NW NE
STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... MARICOPA
GEOLOGIC PROVINCE..

LAT/LONG... 33-32.23 N 113-11.24 W
UTM ZONE... +12
NORTHING... 3712353.
296443.

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

SPECIFIC CONDUCTANCE..... 710.
TOTAL DISSOLVED SOLIDS... 480.

ANALYSIS IN MG/L

ISOTOPES (0/00)

AG....	CO3..... N		MG...	16.		
AL....	CR.....		NA...	36.		
H.....	F..... 1.4		NA+K...	124.		
BA....	FE+3....		NB...	119.		
BE....	FE(TOT)...		NO3..	17.		
CA.... 28.	HCO3..... 162.					
CL.... 59.						

QUALIFICATION FIELD..... DISCHARGE MEASURED 1966/12/00

REFERENCE AND IDENTIFICATION

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

RECORD 00159

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0018167

NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF BURNT MT. (2/5)

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02N 009W 09 NW OF NW SE
STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... MARICOPA
GEOLOGIC PROVINCE..

LAT/LONG... 33-31.81 N 113-11.25 W
UTM ZONE... 12
NORTHING... 3712156.
296438.

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

ISOTOPES (0/00)

AG....	CO3..... N		MG...	17.		
AL....	CR.....		NA...	39.		
H.....	F..... 1.4		NA+K...	115.		
BA....	FE+3....		NB...	125.		
BE....	FE(TOT)...		NO3..	14.		
CA.... 25.	HCO3..... 179.					
CL.... 64.						

QUALIFICATION FIELD..... DISCHARGE MEASURED 1966/12/00

REFERENCE AND IDENTIFICATION

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

RECORD 00160

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0018168

NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF BURNT MT. (2/5)

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02N 009W 09 NW OF NW SE
STATE..... ARIZONA B&M: GILA AND SALT RIVER

LAT/LONG... 33-31.81 N 113-11.25 W
UTM ZONE... 12

COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... BIG HORN MTS. 1162500

NORTHING... 3712156.
 296438.

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

ISOTOPES (0/00)

AG....	CO3..... N				
AL....	CR.....	MG...	13.		
B....	F..... 1.7	NA...		SI02.	43.
BA....	FE+3....	NA+K.	108.		
BE....	FE(TOT).. 0.02	NB...		SO4..	118.
CA.... 26.	HC03.... 168.				
CL.... 62.					

QUALIFICATION FIELD..... DISCHARGE MEASURED 1966/12/00

REFERENCE AND IDENTIFICATION

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

RECORD 00161

GEO THERM SAMPLE FILE

GEO THERM FILE 101 0018169

NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF BURNT MT. (3/5)
 WELL/SPRING NUMBER..... 02N-09W-10-ABB

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02N 09W 10 NW OF NW NE
 STATE..... ARIZONA B&M GILA AND SALT RIVER
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..

LAT/LONG... 33-32.20 N 113-10.19 W
 UTM ZONE... +12
 NORTHING... 3712320.
 298040.

MAP REFERENCE..... BIG HORN MTS. 1162500

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

ISOTOPES (0/00)

AG....	CO3..... N				
AL....	CR.....	MG...	13.		
B....	F..... 1.8	NA...		SI02.	38.
BA....	FE+3....	NA+K.	117.		
BE....	FE(TOT).. 0.02	NB...		SO4..	93.
CA.... 31.	HC03.... 150.				
CL.... 114.					

QUALIFICATION FIELD..... DISCHARGE MEASURED 1966/12/00

REFERENCE AND IDENTIFICATION

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

RECORD 00162

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF BURNT MT. (4/5)

GEOTHERM FILE ID: 0018170

WELL/SPRING NUMBER..... 02N-09W-10-BBB

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 02N 009W 10 NW OF NW NW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..

LAT/LONG... 33-32.21 N 113-10.69 W
 UTM ZONE... +12
 NORTING... 3712324.
 297840.

MAP REFERENCE..... BIG HORN MTS. 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1966/12/00

TEMPERATURE (C)..... 73.

WELL DEPTH (M)..... 396.

DISCHARGE..... Q 9009. L/MIN

WATER ANALYSIS

PH..... 8.7

SPECIFIC CONDUCTANCE..... 882.

ANALYSIS IN MG/L

ISOTOPES (U/00)

AG....	CO3.....	28.			
AL....	CR.....		MG...	14.	
H....	F.....	1.8	NA...		112.
HA....	FE+3....		NA+K.	130.	
RE....	FE(TQT).	0.02	NB...		130.
CA....	34.				
CL....	88.				
	HC03....	140.			

QUALIFICATION FIELD..... DISCHARGE MEASURED 1966/12/00

REFERENCE AND IDENTIFICATION

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

REFERENCE..... DENIS, 1971

RECORD 00163

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF SADDLE MT. (02/10)

GEOTHERM FILE ID: 0018152

WELL/SPRING NUMBER..... 01N-08W-07-CBB

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 01N 008W 07 NW OF NW SW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..

LAT/LONG... 33-26.54 N 113-07.57 W
 UTM ZONE... +12
 NORTING... 3702531.
 302419.

MAP REFERENCE..... CORTEZ PEAK 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1958/07/00

TEMPERATURE (C)..... 41.

WELL DEPTH (M)..... 244.

DISCHARGE..... Q 2956. L/MIN

WATER ANALYSIS

PH..... 7.8

SPECIFIC CONDUCTANCE..... 1180.

TOTAL DISSOLVED SOLIDS... 764.

ANALYSIS IN MG/L

ISOTOPES (U/00)

AG....	CO3.....	N			
AL....	CR.....		MG...	1.5	

R.....		F.....	4.2	NA...		SI02.	69.
RA.....		FE+3.....		NA+K.	258.		
RE.....		FE(TOT).		NB...		S04..	153.
CA.....	9.8	HCO3....	270.	N03..	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

GEOOTHERM SAMPLE FILE

GEOOTHERM FILE ID: 0018153

NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF SADDLE MT. (03/10)

WELL/SPRING NUMBER..... 01N-08W-19-BCC

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 01N 008W 19 SW OF SW NW
STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... MARICOPA
GEOLOGIC PROVINCE..

LAT/LONG... 33-24.85 N 113-07.535W
UTM ZONE... +12
NORTHING... 3698355.
302334.

MAP REFERENCE..... CORTEZ PEAK 1162500

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

ISOTOPIES (0/00)

AG.....	CO3.....	N			
AL.....	CR.....		MG...	1.5	
H.....	F.....	3.	NA...		SI02. 49.
HA.....	FE+3.....		NA+K.	165.	
HE.....	FE(TOT).		NB...		S04.. 77.
CA.....	HCO3....	181.	N03..	11.	
CL.....					

QUALIFICATION FIELD..... DISCHARGE MEASURED 1967/09/00

REFERENCE AND IDENTIFICATION

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

RECORD 00165

GEOOTHERM SAMPLE FILE

GEOOTHERM FILE ID: 0018154

NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF SADDLE MT. (04/10)

WELL/SPRING NUMBER..... 01N-09W-01-BBB

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 01N 009W 01 NW OF NW NW
STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... MARICOPA
GEOLOGIC PROVINCE..

LAT/LONG... 33-27.86 N 113-08.60 W
UTM ZONE... +12
NORTHING... 3704320.
300828.

MAP REFERENCE..... CORTEZ PEAK 1162500

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/LISOIOPES (0/00)

AG....	CO3..... N				
AL....	CR.....	MG...	9.		
B....	F..... 1.6	NA...		SI02.	73.
BA....	FE+3....	NA+K.	168.		
BE....	FE(TOT).	NB...		S04..	228.
CA.... 34.	HCO3.... 156.				
CL.... 83.					

QUALIFICATION FIELD..... DISCHARGE MEASURED 1966/12/00

REFERENCE AND IDENTIFICATION

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

RECORD 00166

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018155

NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF SADDLE MT. (05/10)

WELL/SPRING NUMBER..... 01N-09W-06-CCC

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES	01N 009W 06	SW OF SW SW	LAT/LONG... 33-27.03 N 113-13.78 W
STATE..... ARIZONA	B&M: GILA AND SALT RIVER		UTM ZONE... +12
COUNTY..... MARICOPA			NORTHING... 3703097.
GEOLOGIC PROVINCE..			292798.

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/LISOIOPES (0/00)

AG....	CO3..... N				
AL....	CR.....	MG...	12.		
B....	F..... 2.8	NA...		SI02.	27.
BA....	FE+3....	NA+K.	198.		
BE....	FE(TOT).	NB...		S04..	151.
CA.... 22.	HCO3.... 287.	NO3..	22.		
CL.... 83.					

QUALIFICATION FIELD..... DISCHARGE MEASURED 1966/12/00

REFERENCE AND IDENTIFICATION

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

RECORD 00167

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018156

NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF SADDLE MT. (06/10)

WELL/SPRING NUMBER..... 01N-09W-07-DCC

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 01N 009W 07 SW OF SW SE LAT/LONG... 33-26.15 N 113-13.28 W
 STATE..... ARIZONA B&M: GILA AND SALT RIVER UTM ZONE... +12
 COUNTY..... MARICOPA NORTHING... 3701501.
 GEOLOGIC PROVINCE.. 292964.
 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
 AG.... CO3..... N
 AL.... CR..... MG... 9.2
 H.... F..... 3.2 NA... SI02. 22.
 BA.... FE+3.... NA+K. 216.
 HE.... FE(TOT). NB... S04.. 324.
 CA.... 68. HCO3.... 234. NO3.. 17.
 CL.... 90.

QUALIFICATION FIELD..... DISCHARGE MEASURED 1966/11/00
REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DENIS, 1971

ISOTOPES (0/00)

RECORD 00168

 GEOTHERM SAMPLE FILE GEOTHERM FILE ID: 0018157
 NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF SADDLE MT. (07/10)
 WELL/SPRING NUMBER..... 01N-09W-14-BBB
LOCATION TOWNSHIP-RANGE COORDINATES
 COUNTRY..... UNITED STATES 01N 009W 14 NW OF NW NW LAT/LONG... 33-25.972N 113-09.618W
 STATE..... ARIZONA B&M: GILA AND SALT RIVER UTM ZONE... +12
 COUNTY..... MARICOPA NORTHING... 3701170.
 GEOLOGIC PROVINCE.. 299162.
 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..... 9.1
 SPECIFIC CONDUCTANCE..... 1430.
 TOTAL DISSOLVED SOLIDS... 1060.
 ANALYSIS IN MG/L
 AG.... CO3..... 40.
 AL.... CR..... MG... 0.9
 H.... 0.69 F..... 2.3 NA... SI02. 130.
 BA.... FE+3.... NA+K. 301.
 HE.... FE(TOT). NB... S04.. 393.
 CA.... 27. HCO3.... 178. NO3.. 8.9
 CL.... 65.

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

ISOTOPES (0/00)

REFERENCE..... DENIS, 1971

RECORD 00169

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018158

NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF SADDLE MT. (08/10)

WELL/SPRING NUMBER..... 01N-09W-17-CBB

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 01N 009W 17 NW OF NW SE

LAT/LONG... 33-25.66 N 113-12.76 W

STATE..... ARIZONA

B&M: GILA AND SALT RIVER

UTM ZONE... *12

COUNTY..... MARICOPA

NORTHING... 3701074.

GEOLOGIC PROVINCE..

294356.

MAP REFERENCE..... CORTEZ PEAK 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1958/07/00

TEMPERATURE (C)..... 36.

WELL DEPTH (M)..... 456.

DISCHARGE..... Q 7873. L/MIN

WATER ANALYSIS

PH..... 8.1

SPECIFIC CONDUCTANCE..... 1010.

TOTAL DISSOLVED SOLIDS... 631.

ANALYSIS IN MG/L

ISOTOPIES (0/00)

AG....

CO3..... N

AL....

CR.....

MG... 8.1

R....

F..... 2.8

NA... SI02. 30.

BA....

FE+3....

NA+K. 202.

HE....

FE(TOT)...

NB... S04.. 122.

CA.... 16.

HCO3.... 286.

NO3.. 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

RECORD 00170

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018159

NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF SADDLE MT. (09/10)

WELL/SPRING NUMBER..... 01N-09W-20-BBB

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 01N 009W 20 NW OF NW NW

LAT/LONG... 33-25.22 N 113-12.76 W

STATE..... ARIZONA

B&M: GILA AND SALT RIVER

UTM ZONE... *12

COUNTY..... MARICOPA

NORTHING... 3699680.

GEOLOGIC PROVINCE..

294327.

MAP REFERENCE..... CORTEZ PEAK 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1953/06/00

TEMPERATURE (C)..... 32.

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

DISCHARGE..... 2529. L/MIN

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 1060.

TOTAL DISSOLVED SOLIDS... 650.

ANALYSIS IN MG/L

ISOTOPIES (0/00)

AG....

CO3..... N

AL....	CR.....	MG...	7.6		
H.....	F.....	NA...		SI02.	27.
HA....	FE+3...	NA+K...	206.		
HE....	FE(TOT)...	NB...		S04..	145.
CA.... 19.	HC03....	N03...	16.		
CL.... 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

GEOTHERM FILE ID: 0018160

NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF SADDLE MT. (10/10)

WELL/SPRING NUMBER..... 01N-09W-28-0CC

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 01N 09W 28 SW OF SW SE

LAT/LONG... 33-23.55 N 113-11.554W

STATE..... ARIZONA

B&M: GILA AND SALT RIVER

UTM ZONE... +12

COUNTY..... MARICOPA

NORTHING... 3696659.

GEOLOGIC PROVINCE..

296065.

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

WATER ANALYSIS

PH..... 7.4

SPECIFIC CONDUCTANCE..... 1120.

ANALYSIS IN MG/L

ISOTOPIES (0/00)

AG.... C03.... N

AL.... CR.....

H..... F..... 2.7

MG... 7.2

HA.... FE+3...

NA... SI02. 36.

HE.... FE(TOT)...

NA+K... 206.

CA.... 17. HC03.... 260.

NB... S04.. 112.

CL.... 130.

REFERENCE AND IDENTIFICATION

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

REFERENCE..... DENIS, 1971

RECORD 00172

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0018151

NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF SADDLE MTN. (1)

WELL/SPRING NUMBER..... 01N-08W-06-AAA

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 01N 08W 06 NE OF NE NE

LAT/LONG... 33-27.8 N 113-06.6 W

STATE..... ARIZONA

B&M: GILA AND SALT RIVER

UTM ZONE... +12

COUNTY..... MARICOPA

NORTHING... 3704243.

GEOLOGIC PROVINCE..

303848.

MAP REFERENCE..... CORTEZ PEAK 1162500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1966/12/00

TEMPERATURE (C)..... 32.
WELL DEPTH (M)..... 231.

WATER ANALYSIS

PH..... 8.8
SPECIFIC CONDUCTANCE..... 911.

ANALYSIS IN MG/L

AG.....	CO3.....	40.			
AL.....	CR.....		MG...	10.	
H.....	F.....	3.1	NA...	SI02.	91.
RA.....	FE+3.....		NA+K.	144.	
HE.....	FE(TOT)...	0.02	NB...	S04..	94.
CA.....	HC03.....	114.			
CL.....					

ISOTOPIES (0/00)

REFERENCE AND IDENTIFICATION

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

RECORD 00173

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018245

NAME OF SAMPLE SOURCE... UNNAMED WELL-SW OF LUKE AIR FORCE BASE
WELL/SPRING NUMBER..... 02N-02W-24-C882

LOCATION

TOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 02N 002W 24 NW OF NW SW
STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... MARICOPA

LAT/LONG... 33-30.03 N 112-25.52 W

MAP REFERENCE..... WADDELL 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1963/04/30

TEMPERATURE (C)..... 31.7

DISCHARGE..... 5413. L/MIN.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 520.
ALKALINITY..... 107. AS HC03

TOTAL DISSOLVED SOLIDS... 366.

ANALYSIS IN PPM

AG.....	CO3.....	N			
AL.....	CR.....		MG...	8.	
H.....	F.....		NA...	84.	
HE.....	FE(TOT)...		NB...	S04..	47.
CA.....	HC03.....	107.	NO3...	43.	
CL.....					

ISOTOPIES (0/00)

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

RECORD 00174

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018244

NAME OF SAMPLE SOURCE... UNNAMED WELL-SW OF LUKE AIR FORCE BASE
WELL/SPRING NUMBER..... 02N-02W-24-C882

LOCATION

TOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 02N 002W 24 NW OF NW SW
STATE..... ARIZONA B&M: GILA AND SALT RIVER

LAT/LONG... 33-30.03 N 112-25.52 W

COUNTY..... MARICOPA
 MAP REFERENCE..... WADDELL 1124000
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 MC03
 TOTAL DISSOLVED SOLIDS... 365.
ANALYSIS IN PPM

ISOTOPIES (0/00)

AG....	CO3..... N			
AL....	CR.....	MG...	8.	
H....	F.....	NA...	68.	
BE....	FE(TOT)...	NB...		504.. 50.
CA.... 30.	MC03.... 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

RECORD 00175

GEOOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL-WEST OF GLENDALE
 WELL/SPRING NUMBER..... 02N-01E-02-DD02

GEOOTHERM FILE ID: 0018233

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 02N 001E 02 SE OF SE SE
 STATE..... ARIZONA 86M; GILA AND SALT RIVER

LAT/LONG... 33-32.18 N 112-13.22 W

COUNTY..... MARICOPA
 MAP REFERENCE..... GLENDALE 1124000

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 MC03
 TOTAL DISSOLVED SOLIDS... 804.
ANALYSIS IN PPM

ISOTOPIES (0/00)

AG....	CO3..... N			
AL....	CR.....	MG...	48.	
H....	F.....	NA...	119.	
RE....	FE(TOT)...	NB...		504.. 105.
CA.... 98.	MC03.... 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

RECORD 00176

GEOHERM SAMPLE FILE

GEOHERM FILE 10: 0018232

NAME OF SAMPLE SOURCE... UNNAMED WELL-WEST OF GLENDALE
 WELL/SPRING NUMBER..... 02N-01E-02-DDD2

LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... ARIZONA 02N 001E 02 SE OF SE SE
 COUNTY..... MARICOPA B&M: GILA AND SALT RIVER
 MAP REFERENCE..... GLENDALE 1:24000

COORDINATES
 LAT/LONG... 33-32.18 N 112-13.22 W

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.... CO3..... N
 AL.... CR..... MG... 16.
 H.... F..... NA... 89.
 HE.... FE(TOT)... NB...
 CA.... 36. HCO3.... 148. NO3... 17. S04.. 43.
 CL.... 118.

ISOTOPES (0/00)

OTHER ANALYTICAL DATA... CAC03=154., SAR=3.1

QUALIFICATION FIELD..... DISCHARGE MEASURED 7/64.

REFERENCE AND IDENTIFICATION

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

RECORD 00177

GEOHERM SAMPLE FILE

GEOHERM FILE 10: 0018037

NAME OF SAMPLE SOURCE... WARM SPRINGS (NORTH OF SIGNAL MTN.)
 WELL/SPRING NUMBER..... 02S-07W-27-DDD

LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... ARIZONA 02S 007W 27 SE OF SE SE
 COUNTY..... MARICOPA B&M: GILA AND SALT RIVER
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... WOOLSEY PEAK 1:24000

COORDINATES
 LAT/LONG... 33-13.2 N 112-57.2 W
 UTM ZONE... +13
 NORTHING... 3775970.
 265370.

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 35.2

WATER ANALYSIS

PH..... 8.48
 ALKALINITY..... 140.3 AS HCO3
 TOTAL DISSOLVED SOLIDS... 232.
 CHARGE IMBALANCE (% DIFF)... 4.1

ANALYSIS IN PPM

AG.... CO3..... N
 AL.... CR..... MG... 0.7

ISOTOPES 10/001

R..... 0.28 F..... 3.24 NA... 74.2 SiO2. 57.5
 HE.... FE(TOT). 0.64 NB... SO4.. 40.3
 CA.... 6.4 HCO3.... 140.3 PO4.. 0.01
 CO.... H2S.....
 CL.... 17. K..... 1.2
 CO....

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 00178

GEOThERM SAMPLE FILE

GEOThERM FILE ID: 0018026

NAME OF SAMPLE SOURCE... WELL IRRIGATION (SOUTH OF CHANDLER)

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02S 00SE 02 NW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MARICOPA
 GEOLOGIC PROVINCE..

LAT/LONG... 33-17.4 N 111-49.342W
 UTM ZONE... +12
 NORTHING... 3684271.
 423433.

MAP REFERENCE..... CHANDLER 1124000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 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

AS HCO3

ANALYSIS IN PPM

ISOIOPES (0/00)

AG....	CO3.... N	LI... 0.046	
AL....	CR.... N	MG... 2.	
AU....	CU.... N		
R..... 0.11	F..... 1.3	NA... 125.	SiO2. 18.
RE....	FE(TOT). 1.1	NB... SO4.. 76.	
BI....	GA.....	NH4.. SR... 1.2	
BR....	GE.....	NI... N	
CA.... 14.	HCO3.... 93.	NO3.. 3.	
CA+MG.	HG.....	PB... N	
CO.... N			
CL.... 76.			
CO.... N	K..... 2.6	ZN... 0.013	

REFERENCE AND IDENTIFICATION

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

RECORD 00179

GEOThERM SAMPLE FILE

GEOThERM FILE ID: 0000220

NAME OF SAMPLE SOURCE... ANDERSON HOT WELL

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES

LAT/LONG... 34-40.8 N 113-58.2 W

STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MOHAVE
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... DUTCH FLAT NW 1124000

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 (0/00)

AL.....		CR.....		MG...	0.3		
H.....	0.85	F.....	0.94	NA...	213.	SI02.	32.
RE.....		FE(TOT).		NB...		S04..	105.
CA.....	24.	HC03....	180.				
CL.....	220.						
CU.....		K.....	5.5				

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

NAME OF SAMPLE SOURCE... BLAKE WELL
 LOCATION

GEOTHERM FILE 101 0000095

TOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MOHAVE
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... HUALAPAI PEAK NE 1124000

LAT/LONG... 35-10.8 N 113-42.6 W

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 (0/00)

AL.....		CR.....		MG...	22.		
H.....	0.46	F.....	4.2	NA...	44.	SI02.	48.
RE.....		FE(TOT).		NB...		S04..	13.
CA.....	22.	HC03....	187.				
CL.....	12.						
CU.....		K.....	3.9				

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

GEOTERM SAMPLE FILE

GEOTHERM FILE ID: 0000093

NAME OF SAMPLE SOURCE... CALICHE SPRINGS

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES

LAT/LONG... 34-58.2 N 114-16.2 W

STATE..... ARIZONA

B&M: GILA AND SALT RIVER

COUNTY..... MOHAVE

MAP REFERENCE..... WARM SPRINGS 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1978/08

TEMPERATURE (C)..... 26.

DISCHARGE..... 2.

WATER ANALYSIS

DATE/ANALYST..... L/MIN

PH..... 6.0

ANALYSIS IN MG/L

ISOTOPIES (0/00)

AL....		CR.....		MG...	12.		
H....	0.25	F.....	0.24	NA...	31.	SI02.	81.
HE....		FE(TOT)...		NB...		SO4..	17.
CA....	33.	HCO3....	162.				
CL....	24.						
CO....		K.....	7.65				

REFERENCE AND IDENTIFICATION

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

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... GOFF, 1979

RECORD 00182

GEOTERM SAMPLE FILE

GEOTHERM FILE ID: 0018075

NAME OF SAMPLE SOURCE... COFER HOT SPRING

WELL/SPRING NUMBER..... 16N-13W-25-CA

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES

16N 013W 25 NE OF SW

LAT/LONG... 34-41.73 N 113-34.39 W

STATE..... ARIZONA

B&M: GILA AND SALT RIVER

UTM ZONE... 12

COUNTY..... MOHAVE

NORTHING... 3841857.

GEOLOGIC PROVINCE.. 04

264120.

MAP REFERENCE..... WIKIEUP 1124000

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... AZ84

TEMPERATURE (C)..... 32.0

WATER ANALYSIS

PH..... 8.55

TOTAL DISSOLVED SOLIDS... 1176.

CHARGE IMBALANCE (% DIFF)... 29.5

ANALYSIS IN PPM

ISOTOPIES (0/00)

AG....		CO3.....	252.2				
AL....		CR.....		MG...	20.5		
H....	0.31	F.....	5.4	NA...	345.5	SI02.	59.
HE....		FE(TOT)...	0.61	NB...		SO4..	252.1
CA....	22.4	HCO3....	327.				
CD....		H2S.....		PO4..	0 0.15		
CL....	146.1						
CO....		K.....	16.				

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

REFERENCE AND IDENTIFICATION

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

RECORD 00183

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0000092

NAME OF SAMPLE SOURCE... DUVAL WELL 4-C

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES

LAT/LONG... 35-10.8 N 114-16.8 W

STATE..... ARIZONA

B&M: GILA AND SALT RIVER

COUNTY..... MOHAVE

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... SECRET PASS 1124000

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/LISOTOPES (U/DU)

AL....		CR.....		MG...	23.		
H....	0.12	F.....	0.53	NA...	46.	SI02.	35.
RE....		FE(TOT).		NB...		S04..	108.
CA....	47.	HCO3....	146.				
CL....	62.						
CO....		K.....	4.60				

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

RECORD 00184

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0000214

NAME OF SAMPLE SOURCE... DUVAL WELL 5-E

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES

LAT/LONG... 35-10.2 N 114-16.8 W

STATE..... ARIZONA

B&M: GILA AND SALT RIVER

COUNTY..... MOHAVE

MAP REFERENCE..... SECRET PASS 1124000

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/LISOTOPES (U/DU)

AL....		CR.....		MG...	14.		
H....	0.12	F.....	0.5	NA...	50.	SI02.	43.
RE....		FE(TOT).		NB...		S04..	54.

CA.... 30. HCO3.... 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

GEOTERM SAMPLE FILE

GEOTHERM FILE ID: 0001496

NAME OF SAMPLE SOURCE... HOT SPRING

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 30N 023W 26.27

LAT/LONG... 35-57.6 N 114-43.5 W

STATE..... ARIZONA

COUNTY..... MOHAVE

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... KINGBOLT RAPIDS 1124000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 30.

REFERENCE AND IDENTIFICATION

REFERENCE..... BERRY AND OTHERS, 1980

RECORD 00186

GEOTERM SAMPLE FILE

GEOTHERM FILE ID: 0000218

NAME OF SAMPLE SOURCE... KAISER HOT SPRINGS

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES

LAT/LONG... 34-36.0 N 113-33.0 W

STATE..... ARIZONA

B&M: GILA AND SALT RIVER

COUNTY..... MOHAVE

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... GREENWOOD PEAK 1124000

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/LISOTOPIES (0/100)

AL....

CR.....

MG....

1.6

R.... 1.32

F.....

NA....

240.

SI02.

58.

HE....

FE(TOT).

NB....

S04..

123.

CA.... 21.

HCO3....

492.

CL.... 69.

CO....

K.....

7.7

REFERENCE AND IDENTIFICATION

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

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... GOFF, 1979

RECORD 00187

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0001484

NAME OF SAMPLE SOURCE... OATMAN WARM SPRINGS

LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 34-53.8 N 114-18.5 W

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... MOHAVE

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... WARM SPRINGS 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 33.

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R

COMPILER AFFILIATION... USGS

REFERENCE..... BERRY AND OTHERS, 1980

RECORD 00188

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0018044

NAME OF SAMPLE SOURCE... PAKOON SPRINGS

WELL/SPRING NUMBER..... 35N-16W-24-DBD

LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 36-24.9 N 113-57.4 W

COUNTRY..... UNITED STATES

STATE..... ARIZONA

COUNTY..... MOHAVE

GEOLOGIC PROVINCE..

MAP REFERENCE..... PAKOON SPRINGS 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 28.0

WATER ANALYSIS

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

AL.... L 1.0 CR..... MG... 19.1

AS.... 0.047

AU.... CU..... L 0.1 MO... SE... 0.005

B.... 0.07 F..... L 0.2 NA... 21.1 SI02. 22.5

BA.... L 0.4

BE.... FE(TOT). L 0.1 NB... S04.. 64.

HI.... GA..... NH4.. SR... 0.24

CA.... 55.1 HCO3.... 245.3 NO3.. 0.2

CD.... H2S..... 1.9 PO4.. 0.03

CL.... 3.2

CU.... K..... 8.2 ZN... 0.05

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

ISOTOPES (0/00)

RECORD 00189

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0002948

NAME OF SAMPLE SOURCE... PAKOON SPRINGS
WELL/SPRING NUMBER..... 35N-16W-24-DC

LOCATION
COUNTRY..... UNITED STATES 35N 016W 24 SW OF SE.
STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... MOHAVE
GEOLOGIC PROVINCE.. 04
MAP REFERENCE..... PAKOON SPRINGS 1:24000

COORDINATES
LAT/LONG... 36-24.8 N 113-57.4 W
UTM ZONE... +12
NORTHING... 4033571.
234695.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 30.0
OTHER SAMPLE INFORMATION.. SMALL SPRINGS ISSUE IN RANCH TANKS AND PONDS; SOME GAS

WATER ANALYSIS

PH..... 7.82
ALKALINITY..... 197. AS HCO3
CHARGE IMBALANCE (% DIFF)... 0.5

ANALYSIS IN MG/L

AG....	CO3....	LI... 0.03	S....
AL.... L 0.001	CR....	MG... 17.	SB...
AS....	CS..... L 0.1	MN... L 0.02	
AU....	CU..... L 0.01		
B.... 0.09	F..... 0.19	NA... 20.	SI02. 17.
BE....	FE(TQT). L 0.02	NB... 504..	73.
BR....	GE.....	NI... L 0.02	
CA.... 48.	HCO3.... 197.		
CA+MG.	MG..... L 0.0001		
CL.... 5.0			
CO....	K..... 8.2	RB... L 0.02	ZN... L 0.01

ISOTOPIES (0/00)

DEL D OF WATER..... -103.9
DEL O(18) OF WATER... -13.85

GAS ANALYSIS

ANALYSIS IN VOLUME %
CH4.. L 0.1
C2H6.
CO2.. 1.4

ISOTOPIES (00/01)

N2... 77.

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

RECORD 00190

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0018058

NAME OF SAMPLE SOURCE... PUMPED WELL (A)
WELL/SPRING NUMBER..... 16N-19W-03-BAA

LOCATION
COUNTRY..... UNITED STATES 16N 019W 03 NE OF NE NW
STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... MOHAVE
GEOLOGIC PROVINCE..
MAP REFERENCE..... WARM SPRINGS SE 1:24000

COORDINATES
LAT/LONG... 34-45.80 N 114-20.55 W
UTM ZONE... +11
NORTHING... 3849821.
743310.

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 28.3

WATER ANALYSIS

PH..... 7.88
 ALKALINITY..... 228.2 AS HCO3
 TOTAL DISSOLVED SOLIDS... 398.
 CHARGE IMBALANCE (% DIFF)... 5.8

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....		CO3..... N			
AL....		CR.....	MG...	12.9	
AU....		CU.....	MO...		0.002
B.....	0.23	F.....	NA...	71.	42.5
BE....		FE(TOT)...	NB...		29.8
BI....		GA.....	NH4...		0.04
CA....	36.3	HCO3.....	NO3...	15.03	
CD....		H2S.....	PO4..	0.25	
CL....	74.1				
CO....		K.....	6.6		
				ZN...	0.17

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

RECORD 00191

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018056

NAME OF SAMPLE SOURCE... PUMPED WELL (EAST OF BLACK MTS.)
 WELL/SPRING NUMBER..... 17N-18W-01-DD

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 17N 018W 01 SE OF SE
 STATE..... ARIZONA B&M GILA AND SALT RIVER
 COUNTY..... MOHAVE
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... YUCCA NW 1124000

LAT/LONG... 34-52.9 N 114-08.6 W
 UTM ZONE... 11
 NORTHING... 3863447.
 761094.

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 32.2

WATER ANALYSIS

PH..... 7.87
 ALKALINITY..... 62.8 AS HCO3
 TOTAL DISSOLVED SOLIDS... 284.
 CHARGE IMBALANCE (% DIFF)... 0.7

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....		CO3..... N			
AL....		CR.....	MG...	12.1	
B.....	0.14	F.....	NA...	32.2	32.5
BE....		FE(TOT)...	NB...		107.6
CA....	39.9	HCO3.....			
CD....		H2S.....	PO4..	0.15	
CL....	41.5				
CO....		K.....	3.1		

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

RECORD 00192

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0018057

NAME OF SAMPLE SOURCE... PUMPED WELL (SE OF BLACK MTS.)
 WELL/SPRING NUMBER..... 17N-18W-36-DBA
LOCATION
 COUNTRY..... UNITED STATES 17N 018W 36 NE OF NW SE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MOHAVE
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... YUCCA 1124000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

COORDINATES

LAT/LONG... 34-48.8 N 114-08.9 W
 UTM ZONE... 11
 NORTHING... 3855854.
 760853.

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

ISOTOPES (0/00)**ANALYSIS IN PPM**

AG.....	CO3..... N				
AL.....	CR.....	MG...	21.6		
H..... 0.09	F..... 0.82	NA...	41.2	SI02..	44.
HE.....	FE(TOT). L 0.1	NB...		S04..	79.6
CA..... 43.5	HCO3.... 181.8				
CD.....	H2S.....	P04..	0.21		
CL..... 60.6					
CO.....	K..... 5.1				

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

RECORD 00193

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0018055

NAME OF SAMPLE SOURCE... WARM SPRING (EAST OF HUALAPAI INDIAN RESERVATION)
 WELL/SPRING NUMBER..... 18N-13W-25-BAC

LOCATION
 COUNTRY..... UNITED STATES 18N 013W 25 SE OF NW NW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MOHAVE
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... TOM BROWN CANYON 1124000

COORDINATES

LAT/LONG... 34-55.00 N 113-36.60 W
 UTM ZONE... 12
 NORTHING... 3866714.
 261558.

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

ISOTOPES (0/00)**ANALYSIS IN PPM**

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

AL....		CR.....		MG...	9.6		
R.....	4.0	F.....	8.72	NA...	522.5	SI02.	29.
HE.....		FE(TOT)...	0.19	NB...		S04..	217.1
CA.....	32.9	HCO3....	413.7				
CO.....		H2S.....		PO4..	0.49		
CL.....	492.1						
CO.....		K.....	13.7				

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 00194

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0000094

NAME OF SAMPLE SOURCE... WARM SPRING NO. 1

LOCATIONTOWNSHIP-RANGECOORDINATES

LAT/LONG... 34-54.6 N 114-21.0 W

COUNTRY..... UNITED STATES
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MOHAVE
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... WARM SPRINGS 1124000

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/LISOTOPES (0/00)

AL....		CR.....		MG...	19.		
R.....	0.3	F.....	0.5	NA...	37.	SI02.	61.
RE.....		FE(TOT)...		NB...		S04..	21.
CA.....	29.	HCO3....	177.				
CL.....	34.						

CO.... K..... 5.68

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R. H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GOFF, 1979

RECORD 00195

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0000216

NAME OF SAMPLE SOURCE... WARM SPRING NO. 2

LOCATIONTOWNSHIP-RANGECOORDINATES

LAT/LONG... 34-54.6 N 114-21.0 W

COUNTRY..... UNITED STATES
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MOHAVE
 MAP REFERENCE..... WARM SPRINGS 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1978/08
 TEMPERATURE (C)..... 27.
 DISCHARGE..... T

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.		
B.....	0.13	F.....	NA...	36.	SI02.	66.
HE....		FE(TOT).	NB...		SO4..	22.
CA....	33.	HCO3....				
CL....	32.					
CO....		K.....				

ISOLOPES (0/00)

REFERENCE AND IDENTIFICATION

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

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... GOFF, 1979

RECORD 00196

GEO THERM SAMPLE FILE

GEO THERM FILE 101 0018025

NAME OF SAMPLE SOURCE... WELL INDUSTRIAL USE

LOCATION

TOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 21N 018W 20 NE OF NE SW

LAT/LONG... 35-10.5 N 114-13.1 W

STATE..... ARIZONA

B&M: GILA AND SALT RIVER

UTM ZONE... 11

COUNTY..... MOHAVE

NORTHING... 3897027.

GEOLOGIC PROVINCE..

752659.

MAP REFERENCE..... KINGMAN NW 1124000

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.

AS HCO3

CHARGE IMBALANCE (% DIFF)... 3.1

ANALYSIS IN PPM

ISOLOPES (0/00)

AG....		CO3..... N	LI...	0.015		
AL....		CR.....	MG...	25.		
AS....		CS.....	MN...	0.003		
AU....		CU.....				
R.....	0.11	F.....	NA...	53.	SI02.	18.
RE....		FE(TOT).	NB...		SO4..	125.
HI....		GA.....	NH4..		SR...	0.815
HR....		GE.....	NI... N			
CA....	56.	HCO3....	NO3..	9.		
CA-MG.		HG.....	PB...	0.029		
CD.... N						
CL....	72.					
CO.... N		K.....				
			ZN...	0.011		

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.

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

REFERENCE..... DUTT AND MCCREARY, 1970

RECORD 00197

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0018024

NAME OF SAMPLE SOURCE... WELL INDUSTRIAL USE

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 21N 018W 30 NE OF NW NW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... MOHAVE
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... KINGMAN NW 1:24000

LAT/LONG... 35-11.0 N 114-14.7 W
 UTM ZONE... +11
 NORTHING... 3896191.
 750677.

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1967/10/16
 TEMPERATURE (C)..... 37.2
 WELL DEPTH (M)..... 421.

WATER ANALYSIS

PH..... 7.8
 SPECIFIC CONDUCTANCE..... 0.4
 ALKALINITY..... 171. AS HCO3
 CHARGE IMBALANCE (% DIFF).... 0.2

ANALYSIS IN PPM

ISOTOPIES (0/00)

AG....	CO3..... N	LI...	0.021		
AL....	CR..... 0.006	MG...	13.		
AS....	CS.....	MN...	0.003		
AU....	CU..... 0.016				
H.... 0.12	F..... 2.5	NA...	39.	SI02.	29.
HE....	FE(TOT).... 0.017	NB...		SO4..	32.
HI....	GA.....	NH4..		SR...	0.769
HR....	GE.....	NI... N			
CA.... 32.	HCO3.... 171.	NO3.. 7.			
CA+MG.	HG.....	PB... N			
CO.... N					
CL.... 36.					
CO.... N	K..... 8.7				
		ZN...	0.007		

REFERENCE AND IDENTIFICATION

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

RECORD 00198

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0015735

NAME OF SAMPLE SOURCE... ONE MILE SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 30N 023W 10 SW
 STATE..... ARIZONA
 COUNTY..... MOHAVE
 MAP REFERENCE..... KINGROLT RAPIDS 1:24000

LAT/LONG... 36-00.0 N 114-44.3 W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1974/09/24
 TEMPERATURE (C)..... 64.

WATER ANALYSIS

PH..... 7.5

RADIATION ANALYSIS

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

MOHAWK 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 0.011		
PB-210....			TH-232.... L 0.0089		
RA-226....	0.75	+/- 0.13	U-234....	0.052	+/- 0.032
RA-228....			U-238....	0.029	+/- 0.029

REFERENCE AND IDENTIFICATION

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

RECORD 00199

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018079

NAME OF SAMPLE SOURCE... AGUA CALIENTE SPRING

WELL/SPRING NUMBER..... 13S-16E-20-DCC

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 13S 016E 20 SW OF SW SE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... PIMA
 GEOLOGIC PROVINCE..

LAT/LONG... 32-16.87 N 110-43.72 W
 UTM ZONE... +12
 NORTHING... 3571500.
 525425.

MAP REFERENCE..... BELLOTA RANCH 1162500

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... AZ70

TEMPERATURE (C)..... 30.4

WATER ANALYSIS

PH..... 7.79

TOTAL DISSOLVED SOLIDS... 632.

CHARGE IMBALANCE (% DIFF)... 9.5

ANALYSIS IN PPM

AG.... L 0.06	CO3.... N	LI... 0.35	
AL.... L 1.0	CR.....	MG... 2.4	
AS.... 0.010			
AU....	CU..... L 0.1	MO... SE... 0.007	
B.... 0.12	F..... 7.1	NA... 133. SI02. 58.	
BA.... L 0.2			
BE....	FE(TOT). 0.27	NB... S04.. 188.	
HI....	GA.....	NH4.. L 0.05 SR... 0.05	
CA.... 26.	HCO3.... 195.	NO3.. Q 1.7	
CD....	H2S.....	P04.. Q 0.06	
CL.... 26.			
CO....	K..... 5.5	ZN... L 0.02	

ISOTOPES (0/00)

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 00200

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001487

NAME OF SAMPLE SOURCE... MERCER SPRING

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES

LAT/LONG... 32-20.2 N 110-42.5 W

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

RECORD 00201

GEO THERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... MONKEY SPRING
 WELL/SPRING NUMBER..... 21S-16E-03-CAC
LOCATION
 COUNTRY..... UNITED STATES 21S 016E 03 SW OF NE SW
 STATE..... ARIZONA B&M GILA AND SALT RIVER
 COUNTY..... PIMA
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... ELGIN 1162500
SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 28.3
WATER ANALYSIS

GEO THERM FILE ID: 0018051

COORDINATES

LAT/LONG... 31-38.03 N 110-42.22 W
 UTM ZONE... +12
 NORTHING... 3499831.
 528133.

PH..... 7.42
 ALKALINITY..... 322.2 AS HC03
 TOTAL DISSOLVED SOLIDS... 1000.

ISOTOPE5 (0/00)

ANALYSIS IN PPM
 AG.... L 0.06 CO3..... N LI... 0.02
 AL.... L 1.0 CR..... MG... 53.7
 AS.... 0.010
 AU.... CU..... L 0.1 MO... SE... 0.003
 B.... 0.07 F..... 0.26 NA... 3.9 SI02. 17.5
 HA.... L 0.4
 HF.... FE(TOT). L 0.1 NB... S04.. 407.8
 HI.... GA..... NH4.. 0.2 SR... 1.66
 CA.... 180.4 HC03.... 322.2 NO3.. 1.41
 CA+MG. HG..... 0.0004
 CD.... H2S..... L 0.1 P04.. 0 0.34
 CL.... N
 CO.... K..... 1.2 ZN... L 0.02

QUALIFICATION FIELD..... NO3 EQUALS NO2 + NO3. 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 00202

GEO THERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... QUITOBAQUITO SPRINGS
LOCATION
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA B&M GILA AND SALT RIVER
 COUNTY..... PIMA
COORDINATES
 LAT/LONG... 31-56.6 N 113-01.0 W
 UTM ZONE... +12
 NORTHING... 3536482.

GEO THERM FILE ID: 0002949

GEOLOGIC PROVINCE.. 04 309390.
 MAP REFERENCE..... QUITOBAQUITO SPRINGS 1162500
 OTHER LOCALITY INFORMATION LOCATION APPROXIMATE: UNCERTAIN WHICH SPRING SAMPLED

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 23.0
 DISCHARGE..... 6 100. L/MIN

OTHER SAMPLE INFORMATION.. NUMEROUS SMALL SEEP SPRINGS

WATER ANALYSIS

PH..... 7.9
 ALKALINITY..... 298. AS HCO3
 TOTAL DISSOLVED SOLIDS... 820.
 CHARGE IMBALANCE (% DIFF)... 0.8

ANALYSIS IN MG/L

AG....		CO3....		LI...	0.11	S....	
AL....	0.002	CR.....		MG...	10.	SB...	
AS....		CS.....	L 0.1	MN...	L 0.02		
AU....		CU.....	L 0.01				
H....	0.67	F.....	4.4	NA...	190.	SI02.	42.
HE....		FE(TOT)..	L 0.02	NB...		S04..	93.
HR....		GE.....		NI...	L 0.02		
CA....	34.	HCO3....	298.				
CL....	140.						
CO....		K.....	4.4	RB...	L 0.02	ZN...	L 0.01

ISOTOPES (0/00)

DEL D OF WATER..... -61.7
 DEL O(18) 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

RECORD 00203

GEO THERM SAMPLE FILE

GEO THERM FILE 101 0018178

NAME OF SAMPLE SOURCE... UNNAMED WELL IN AURA VALLEY (1/2)

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 14S 011E 33 SW OF SW SW
 STATE..... ARIZONA
 COUNTY..... PIMA

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.

ANALYSIS IN PPM

AG....		CO3....	N				
AL....		CR.....		MG...	7.1		
B....		F.....	0.6	NA...		SI02.	39.
BA....		FE+3....		NA+K.	34.		
HE....		FE(TOT)..		NB...		S04..	18.
CA....	28.	HCO3....	166.	NO3..	2.3		
CL....	11.						

ISOTOPES (0/00)REFERENCE AND IDENTIFICATION

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

RECORD 00204

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018177

NAME OF SAMPLE SOURCE... UNNAMED WELL IN AURA VALLEY (2/2)

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 14S 010E 25 NE OF NE SW

STATE..... ARIZONA

COUNTY..... PIMA

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1940/04/16

TEMPERATURE (C)..... 32.2

WELL DEPTH (M)..... 122.

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 1080.

TOTAL DISSOLVED SOLIDS... 715.

ANALYSIS IN PPM

ISOTOPIES (0/00)

AG....	CO3..... N				
AL....	CR.....	MG...	8.3		
H....	F..... 0.9	NA+K...	113.		
HA....	FE+3....	NB...		504..	317.
HE....	FE(TOT)...				
CA.... 118.	MC03.... 139.				
CL.... 90.					

REFERENCE AND IDENTIFICATION

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

REFERENCE..... WHITE AND OTHERS, 1966

RECORD 00205

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018189

NAME OF SAMPLE SOURCE... UNNAMED WELL IN TUCSON AREA (01/11)

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 16S 015E 30 SE OF SE SE

STATE..... ARIZONA

COUNTY..... PIMA

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/03/12

TEMPERATURE (C)..... 31.5

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 00206

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018188

NAME OF SAMPLE SOURCE... UNNAMED WELL IN TUCSON AREA (02/11)

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 16S 015E 26 SE OF SE SE

STATE..... ARIZONA

COUNTY..... PIMA

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/02/18

TEMPERATURE (C)..... 30.8

WELL DEPTH (M)..... 340.

WATER ANALYSIS

PH..... 8.6
 TOTAL DISSOLVED SOLIDS... 1004.
 ANALYSIS IN PPM

ISOTOPES (0/00)

AL....	CR.....	MG...	2.		
H.....	F.....	NA...	228.		
BE....	FE(TOT).	NB...		504..	176.
CA.... 29.	HCO3....		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 SAMPLE FILE

GEOTHERM FILE ID: 0018187

NAME OF SAMPLE SOURCE... UNNAMED WELL IN TUCSON AREA (03/11)

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 16S 01SE 07 SE OF SE NE

STATE..... ARIZONA

COUNTY..... PIMA

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1975/11/14

TEMPERATURE (C)..... 30.3

WELL DEPTH (M)..... 335.

WATER ANALYSIS

PH..... 7.8
 TOTAL DISSOLVED SOLIDS... 419.

ANALYSIS IN PPM

ISOTOPES (0/00)

AL....	CR.....	MG...	4.3		
B.....	F.....	NA...	61.		
BE....	FE(TOT).	NB...		504..	99.
CA.... 31.	HCO3....		195.		
CL.... 26.					

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... *DATA FROM FILES OF CITY OF TUCSON

RECORD 00208

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0018186

NAME OF SAMPLE SOURCE... UNNAMED WELL IN TUCSON AREA (04/11)

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 17S 014E 03 SW OF SW SE

STATE..... ARIZONA

COUNTY..... PIMA

SAMPLE DESCRIPTION AND CONDITIONS

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

TEMPERATURE (C)..... 31.5

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 00209

GEOtherm SAMPLE FILE

GEOTHERM FILE ID: 0018185

NAME OF SAMPLE SOURCE... UNNAMED WELL IN TUCSON AREA (05/11)

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 16S 01SE 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 SAMPLE FILE

GEOTHERM FILE ID: 0018184

NAME OF SAMPLE SOURCE... UNNAMED WELL IN TUCSON AREA (06/11)

LOCATION

TOWNSHIP-RANGE

COORDINATES

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 SAMPLE FILE

GEOTHERM FILE ID: 0018183

NAME OF SAMPLE SOURCE... UNNAMED WELL IN TUCSON AREA (07/11)

LOCATION

TOWNSHIP-RANGE

COORDINATES

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..... 0.55 NA... 44.

HE..... FE(TOT)... NB... S04.. 3.

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 (0/001)

RECORD 00212

GEOTHERM FILE ID: 0018182

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL IN TUCSON AREA (08/11)

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 15S 01E 12 SW OF SW SW

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 00213

GEOTHERM FILE ID: 0018181

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL IN TUCSON AREA (09/11)

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 14S 01E 33 SW OF SW SE

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

ISOTOPE (0/00)

AL.... CR.... MG... 3.7

B.... F.... 0.38 NA... 36.

BE.... FE(TQT)... NB... S04.. 12.

CA.... 57. HCO3.... 185.

CL.... 11.

REFERENCE AND IDENTIFICATION

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

REFERENCE..... *DATA FROM FILES OF CITY OF TUCSON

RECORD 00214

GEOTHERM FILE ID: 0018180

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL IN TUCSON AREA (10/11)

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 14S 01E 27 SW OF NE SE

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

TOTAL DISSOLVED SOLIDS... 266.

ANALYSIS IN PPM

ISOTOPES (0/00)

AL....	CR.....	MG...	2.7
H.....	F..... 0.4	NA...	51.
RE....	FE(TOT).	NB...	504.. 5.
CA.... 16.	HC03.... 181.		
CL.... 12.			

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... *DATA FROM FILES OF CITY OF TUCSON

RECORD 00215

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018179

NAME OF SAMPLE SOURCE... UNNAMED WELL IN TUCSON AREA (11/11)

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 14S 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.

WATER ANALYSIS

PH..... 6.7
 TOTAL DISSOLVED SOLIDS... 431.

ANALYSIS IN PPM

ISOTOPES (0/00)

AL....	CR.....	MG...	13.
B.....	F..... 0.38	NA...	105.
BE....	FE(TOT).	NB...	504.. 43.
CA.... 47.	HC03.... 142.		
CL.... 63.			

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... *DATA FROM FILES OF CITY OF TUCSON

RECORD 00216

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018000

NAME OF SAMPLE SOURCE... UNNAMED WELL NEAR PAPAGO FARMS

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 05S 01W 19
 STATE..... ARIZONA
 COUNTY..... PIMA
 GEOLOGIC PROVINCE.. 04

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 DW-2. 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

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

RECORD 00217

GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0018017

NAME OF SAMPLE SOURCE... WELL DOMESTIC USE

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 16S 014E 21 NW OF SW,SW
 STATE..... ARIZONA 8&M: GILA AND SALT RIVER
 COUNTY..... PIMA
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... TUCSON SW 1124000

LAT/LONG... 32-01.054N 110-55.486W
 UTM ZONE... +12
 NORTHING... 3542198.
 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. AS HCO3
 CHARGE IMBALANCE (% DIFF).... 1.7

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO3..... N	LI...	0.016		
AL....	CR..... N	MG...	11.		
AS....	CS.....	MN...	0.039		
AU....	CU..... 0.001				
H..... 0.06	F..... 0.4	NA...	26.	SI02.	25.
HE....	FE(TOT) 1.832	NB...		S04..	76.
HI....	GA.....	NH4..		SR...	0.371
HR....	GE.....	NI... N			
CA.... 66.	HCO3.... 210.	NO3.. 18.			
CA-MG.	MG.....	PB... N			
CD.... N					
CL.... 16.					
CO.... N	K..... 2.4	ZN...	0.027		

REFERENCE AND IDENTIFICATION

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

RECORD 00218

GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0018018

NAME OF SAMPLE SOURCE... WELL DOMESTIC USE

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 14S 014E 29 SW OF NW,SW
 STATE..... ARIZONA 8&M: GILA AND SALT RIVER
 COUNTY..... PIMA
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... WELL DOMESTIC USE (SOUTH TUCSON)

LAT/LONG... 32-10.955N 110-57.182W
 UTM ZONE... +12
 NORTHING... 3560487.
 504428.

OTHER LOCALITY INFORMATION: 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.	SiO2. N
RE....		FE(TOT).		NB... 246.	SO4..
CA.... 71.		HCO3.... 120.		NO3.. 2.	
CL.... 104.					
CO....		K..... 3.6			

ISOTOPE (0/00)

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 00219

GEO THERM SAMPLE FILE

GEOTHERM FILE 101 0018021

NAME OF SAMPLE SOURCE... WELL IRRIGATION (NORTH OF IRON BELL RANCH)
 WELL/SPRING NUMBER..... 125-12E-34-D8D

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES	125 012E 34	SE OF NW SE	LAT/LONG... 32-20.5 N 111-06.1 W
STATE..... ARIZONA	B&M: GILA AND SALT RIVER		UTM ZONE... +12
COUNTY..... PIMA			NORTHING... 3577883.
GEOLOGIC PROVINCE.. 04			490426.

MAP REFERENCE..... JAYNES 1124000

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			
H..... 0.32		F..... 0.7		NA... 108.	SiO2. 12.
RE....		FE(TOT). 0.366		NB... 22.	SO4..
HI....		GA.....		NH4.. 0.167	SR...
HR....		GE.....		NI... N	
CA.... 5.		HCO3.... 220.		NO3.. 8.	
CA+MG.		HG.....		PH... 0.018	
CI.... N					
CL.... 36.					

ISOTOPE (0/00)

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

GEO THERM SAMPLE FILE

GEOTHERM FILE 101 0018019

NAME OF SAMPLE SOURCE... WELL IRRIGATION (NORTH OF JAYNES)
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE 13S 013E 17 NE OF NE SW
 STATE..... ARIZONA
 COUNTY..... PIMA
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... JAYNES 1:24000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

COORDINATES

LAT/LONG... 32-18.0 N 111-02.3 W
 UTM ZONE... +12
 NORTHING... 3573233.
 496651.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1967/06/22
 TEMPERATURE (C)..... 31.9
 WELL DEPTH (M)..... 64.

WATER ANALYSIS

PH..... 7.8
 SPECIFIC CONDUCTANCE..... 1000.
 ALKALINITY..... 220. AS HCO3
 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..... 0.4	NA...	105.	SiO2.	12.
RE....	FE(TOT). 6.1	NB...		SO4..	290.
HI....	GA.....	NH4..		SR...	1.588
CA.... 104.	HCO3.... 220.	NO3..	7.		
CA+MG.	HG.....	PB... N			
CL.... 84.					
CO.... 0.051	K..... 3.3				
		ZN...	0.281		

ISOTOPIES (0/00)

REFERENCE AND IDENTIFICATION

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

RECORD 00221

GEO THERM SAMPLE FILE

GEOTHERM FILE 101 0018022

NAME OF SAMPLE SOURCE... WELL IRRIGATION (NW OF IRON HELL RANCH)
 WELL/SPRING NUMBER..... 12S-12E-34-DBB
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE 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.

COORDINATES

LAT/LONG... 32-20.7 N 111-06.1 W
 UTM ZONE... +12
 NORTHING... 3578003.
 490226.

SAMPLE DESCRIPTION AND CONDITIONS

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			
B.....	0.56	F.....	1.3	NA... 66.	
BE....		FE (TOT)...	1.285	NB...	
RI....		GA.....		NH4...	
HR....		GE.....		NI... N	
CA....	4.	HCO3.....	63.	NO3... 6.	
CA+MG.		HG.....		PB... 0.052	
CD.... N					
CL.... 60.					
CO.... N		K.....	0.8		

ISOLOPES (0/00)

ZN... 0.089

REFERENCE AND IDENTIFICATION

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

RECORD 00222

GEOHEM_SAMPLE_FILE

NAME OF SAMPLE SOURCE... WELL IRRIGATION (SOUTH OF RILLITO)
WELL/SPRING NUMBER..... 12S-12E-07-CAA

GEOTHERM FILE ID: 0018023

LOCATION

~~Location Name~~
COUNTRY..... UNITED STATES 125 012E 07 NE OF NE SW
STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... PIMA
GEOLOGIC PROVINCE..
MAP REFERENCE..... MARANA 1124000

COORDINALES

LAT/LONG... 32-24.0 N 111-09.5 W
UTM ZONE... 412
NORTHING... 3584504.
485218.

..OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1967/06/20
TEMPERATURE (C)..... 30.8
WELL DEPTH (M)..... 107.

WATER ANALYSIS

PH.....	7.6	
SPECIFIC CONDUCTANCE.....	1.0	
ALKALINITY.....	268.	AS HCO3
CHARGE IMBALANCE (% DIFF)...	28.2	
ANALYSIS IN PPM		

ANALYSIS IN PPM

AG....		CO3.....	N		LI....	0.026
AL....		CR.....	N		MG....	10.
AS....		CS.....			MN....	N
AU....		CU.....	N			
H.....	0.13	F.....		0.4	NA....	86.
HE....		FE(TOT) ..	N		NB....	
HI....		GA.....			NH4....	
HR....		GE.....			NI....	N

ISOLOPES (0/00)

CA.... 65. HC03.... 268. NO3.. 25.
 CA+MG. HG..... PB... N
 CD.... N
 CL.... 92.
 CO.... K..... 2.8 ZN... 3.03
REFERENCE AND IDENTIFICATION
 COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DUTT AND MCCREARY, 1970

RECORD 00223

GEOHEM SAMPLE FILE

GEOHEM FILE 101 0018020

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 B&M: GILA AND SALT RIVER
 COUNTY..... PIMA
 GEOLOGIC PROVINCE..
 MAP REFERENCE..... JAYNES 1124000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

COORDINATES

LAT/LONG... 32-20.3 N 111-06.2 W
 UTM ZONE... +12
 NORTHING... 3577483.
 490225.

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. AS HC03
 CHARGE IMBALANCE (% DIFF)... 1.2

ANALYSIS IN PPM

AG.... CO3.... N LI... 0.049
 AL.... CR.... N MG... 9.
 AS.... CS.... MN... N
 AU.... CU.... N
 B.... 0.12 F.... 0.5 NA... 55. SI02. 35.
 BE.... FE(TQT). 0.34 NB... S04.. 26.
 HI.... GA.... NH4.. SR... 1.1
 CA.... 59. HC03.... 278. NO3.. 7.
 CA+MG. HG..... PB... 0.121
 CU.... N
 CL.... 40.

ISOTOPES (0/00)

CO.... N K..... 2.6 ZN... 0.303
REFERENCE AND IDENTIFICATION
 COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... DUTT AND MCCREARY, 1970

RECORD 00224

GEOHEM SAMPLE FILE

GEOHEM FILE 101 0018002

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

COORDINATES

LAT/LONG... 31-47.13 N 112-18.55 W

UTM ZONE... +12
NORTHING... 3517220.
376048.

PH.....	7.7	
SPECIFIC CONDUCTANCE.....	599.	
ALKALINITY.....	249.	AS HC03
TOTAL DISSOLVED SOLIDS...	417.	
ANALYSIS IN PPM		

AG....		CO3.....	N				
AL....		CR.....		MG...	1.9		
H.....	0.14	F.....	12.	NA...		SI02.	64.
HA....		FE+3....		NA+K.	128.		
HE....		FE(TOT).		NB...		SO4..	40.
CA....	15.	HC03....	249.	N03..	3.0		
CL....	31.						

COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION.. ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... HEINDL AND COSNER, 1961

RECORD 00225

GEOTHERM FILE ID: 0018001

LOCATION		<u>TOWNSHIP-RANGE</u>	
COUNTRY.....	UNITED STATES	19S 001E 05	SW OF NE NW
STATE.....	ARIZONA	B&M:	GILA AND SALT RIVER
COUNTY.....	PIMA		
GEOLOGIC PROVINCE..	04		
MAP REFERENCE.....	KOM VO 1162500		

LAT/LONG... 31-48.00 N 112-17.92 W
UTM ZONE... 48
NORTHING... 3518815.
377061.

SAMPLE DESCRIPTION AND CONDITIONS

WATER ANALYSIS		
SPECIFIC CONDUCTANCE.....	577.	
ALKALINITY.....	162.	AS HCU3
TOTAL DISSOLVED SOLIDS...	327.	
ANALYSIS IN PPM		
AG.....	CO3.....	N
AL.....	CR.....	MO

ISOLOPES (10/00)

H.....	F.....	15.	NA...	SI02.	14.
HA.....	FE+3....		NA+K.	116.	
HE.....	FE(TOT)...		NB...	S04..	38.
CA.....	HC03.....	162.	NO3..	0.2	
CL.....					

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... WEINDL AND COSNER, 1961

RECORD 00226

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018061

NAME OF SAMPLE SOURCE... HOT PUMPED WELL (EAST OF COOLIDGE)

WELL/SPRING NUMBER..... 055-07E-13-DAD

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 055 007E 13 SE OF NW SE

STATE..... ARIZONA

B&M: GILA AND SALT RIVER

COUNTY..... PINAL

GEOLOGIC PROVINCE.. 04

LAT/LONG... 32-59.30 N 111-34.50 W

UTM ZONE... +12

NORTHING... 3649949.

446277.

MAP REFERENCE..... COOLIDGE 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 41.1

WATER ANALYSIS

PH..... 8.57

ALKALINITY..... 94.

AS HC03

TOTAL DISSOLVED SOLIDS... 552.

CHARGE IMBALANCE (% DIFF)... 0.4

ANALYSIS IN PPMISOTOPES (D/00)

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

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

H..... 0.52 F..... 5.4

HE..... FE(TOT). L 0.15

CA..... 9.2 HC03..... 94.

CD..... H2S.....

CL..... 128.

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

MG... 0.1

NA... 163.4 SI02. 31.11

NB... S04.. 107.1

P04.. N

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.

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

REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00227

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018066

NAME OF SAMPLE SOURCE... HOT PUMPED WELL (NORTH OF ELEVEN MILE CORNER-2)

WELL/SPRING NUMBER..... 065-07E-13-ADD

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 065 007E 13 SE OF SE NE

STATE..... ARIZONA

B&M: GILA AND SALT RIVER

COUNTY..... PINAL

GEOLOGIC PROVINCE.. 04

LAT/LONG... 32-54.13 N 111-34.08 W

UTM ZONE... +12

NORTHING... 3640522.

447005.

MAP REFERENCE..... COOLIDGE 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 61.0

WATER ANALYSIS

PH.....	8.67	
ALKALINITY.....	75.7	AS HCO3
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....		CU.....	L 0.1	MO...		SE...	0.016
H....	0.76	F.....	5.4	NA...	412.2	SI02.	42.12
BA....	L 0.2						
RE....		FE(TQT).	L 0.15	NH...		S04..	301.6
CA....	11.0	HCO3....	75.7	NO3..	8.19		
CA+MG.		HG.....	0.0004				
CD....		H2S.....	L 0.1	P04..	N		
CL....	358.8						
CU....		K.....	3.1			ZN...	L 0.02

ISOIOPES (0/00)

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

REFERENCE AND IDENTIFICATION

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

RECORD 00228

GEOHERM_SAMPLE_EILE

GEOTHERM FILE ID: 0018065

NAME OF SAMPLE SOURCE... HOT PUMPED WELL (NORTH OF ELEVEN MILE CORNER)
WELL/SPRING NUMBER..... 065-08E-18-CDD

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 06S 008E 18 SE OF SE SW
STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... PINAL
GEOLOGIC PROVINCE.. 04

LAT/LONG... 32-53.67 N 111-33.50 W
UTM ZONE... 412
NORTHING... 3639594.
447780.

MAP REFERENCE..... COOLIDGE 1124000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 30.0

WATER ANALYSIS

PH.....	7.41	
ALKALINITY.....	252.6	AS HC03
TOTAL DISSOLVED SOLIDS...	2952.	
CHARGE IMBALANCE (% DIFF)...	2.2	

ANALYSIS IN PPM

AG....		C03.....	N				
AL....		CR.....		MG...	50.9		
H.....	1.36	F.....	0.53	NA...	498.6	SI02.	38.4
HF.....		FE(TOT)...	0.43	NB...		S04..	878.
CA.....	359.3	HC03....	252.6				
CD....		H2S.....		P04..	0.03		
CL....	799.8						
CO....		K.....	8.6				

ISOIOPES (0/00)

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

REFERENCE AND IDENTIFICATION

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

RECORD 00229

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0018063

NAME OF SAMPLE SOURCE... HOT PUMPED WELL (SOUTH OF COOLIDGE)

WELL/SPRING NUMBER..... 055-08E-28-CDD

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 05S 008E 28 SE OF SE SW

LAT/LONG... 32-57.58 N 111-32.00 W

STATE..... ARIZONA

B&M: GILA AND SALT RIVER

UTM ZONE... +12

COUNTY..... PINAL

NORTHING... 3646788.

GEOLOGIC PROVINCE.. 04

450154.

MAP REFERENCE..... COOLIDGE 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 56.8

WATER ANALYSIS

PH..... 8.81

ALKALINITY..... 67.1

AS HCO3

TOTAL DISSOLVED SOLIDS... 744.

CHARGE IMBALANCE (% DIFF)... 0.2

ANALYSIS IN PPM

ISOTOPIES (O/00)

AG.... CO3.... N

AL.... CR....

H.... 0.66 F.... 7.35

MG... 0.8

BE.... FE(TOT). L 0.15

NA... 236.8

SI02. 47.15

CA.... 14.2 HCO3.... 67.1

NB... 504..

183.

CD.... H2S....

PU4.. 0.06

CL.... 206.

CO.... K..... 2.0

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

REFERENCE AND IDENTIFICATION

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

REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00230

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0018062

NAME OF SAMPLE SOURCE... HOT PUMPED WELL (SOUTH OF COOLIDGE)

WELL/SPRING NUMBER..... 055-07E-36-ACD

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 05S 007E 36 SE OF SW NE

LAT/LONG... 32-56.73 N 111-35.40 W

STATE..... ARIZONA

B&M: GILA AND SALT RIVER

UTM ZONE... +12

COUNTY..... PINAL

NORTHING... 3645153.

GEOLOGIC PROVINCE.. 04

444849.

MAP REFERENCE..... COOLIDGE 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 55.6

WATER ANALYSIS

PH..... 8.59

ALKALINITY..... 62.2

AS HCO3

TOTAL DISSOLVED SOLIDS... 1172.

CHARGE IMBALANCE (% DIFF)... 1.5

ANALYSIS IN PPM

ISOTOPIES (O/00)

AG.... CO3.... N

AL.... CR....

H.... 0.78 F.... 4.35

MG... 1.8

NA... 388.3

SI02. 39.64

BE.... FE(TOT). L 0.15

NB... 504..

229.6

CA.... 23.6 HC03.... 62.2
 CD.... H2S.... P04.. 0.03
 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

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018064

NAME OF SAMPLE SOURCE... HOT PUMPED WELL (1)

WELL/SPRING NUMBER..... 05S-07E-01-C

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 04S 007E 01 SW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... PINAL
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... COOLIDGE 1:24000

LAT/LONG... 32-50.2 N 111-35.0 W
 UTM ZONE... 12
 NORTHING... 3633140.
 445406.

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

ISOTOPES (0/001)

AG....	CO3.... 8.4	LI... 0.25		
AL....	CR....	MG... 0.4		
AS.... 0.034				
AU....	CU....	MO... 0.005		
B.... 0.04	F.... 3.2	NA... 164.4	SE... 41.	
BE....	FE(TOT). L 0.15	NB... 110.	SIO2..	
CA.... 8.8	HC03.... 89.1	NO3.. 6.14	S04..	
CD....	H2S.... 0.17	P04.. 0.03		
CL.... 121.2				
CO....	K.... 2.0	ZN... 0.04		

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 00232

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0015703

NAME OF SAMPLE SOURCE... IRRIGATION WELL 1481

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... ARIZONA
 COUNTY..... PINAL
 MAP REFERENCE..... TUCSON 1:250000

LAT/LONG... 32-45. N 111-42. W

OTHER LOCALITY INFORMATION: WELL 2 MI. WEST OF ARIZONA CITY.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1974/11/20

TEMPERATURE (C)..... 32.

RECORD 00234

GEOTHERM FILE ID: 0018007

GEOTHERM SAMPLE FILENAME OF SAMPLE SOURCE... WELL DOMESTIC
WELL/SPRING NUMBER..... 06S-06E-08-BDD

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 06S 006E 08 SE OF SE NW
STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... PINAL

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

ISOTOPIES (0/00)

AG....	CO3.....	19.	LI...	0.005		
AL....	CR.....	0.007	MG...	N		
AS....	CS.....		MN...	N		
AU....	CU.....	0.009				
B..... 0.36	F.....	8.	NA...	148.	SI02.	22.
BE....	FE(TOT)...	0.062	NB...		SO4..	130.
BI....	GA.....		NH4..		SR...	0.106
BR....	GE.....		NI... N			
CA.... 4.	HCO3.....	59.	NO3.. 3.			
CA+MG.	HG.....		PB... N			
CI.... N						
CL.... 50.						
CO.... N	K.....	1.6	ZN... N			

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 FILENAME OF SAMPLE SOURCE... WELL IRRIGATION
WELL/SPRING NUMBER..... 06S-07E-13-DAA

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 06S 007E 13 NE OF NE SE
STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... PINAL

GEOLOGIC PROVINCE.. 04

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.
AL....		CR.....	N
AS....		CS.....	
AU....		CU.....	0.011
H.....	0.71	F.....	4.
HE....		FE(TOT)...	0.183
HI....		GA.....	
HR....		GE.....	
CA....	8.	HCO3.....	93.
CA+MG.		HG.....	
CL....	400.		
CO....	N	K.....	2.7

LI...	0.213
MG...	N
MN...	0.018
NA...	368.
NB...	
NH4...	
NI...	N
NO3...	4.
PB...	N

ISOTOPIES (0/000)

SI02.	38.
S04..	190.
SR...	0.187
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 SAMPLE FILE

GEOTHERM FILE ID: 0018010

NAME OF SAMPLE SOURCE... WELL IRRIGATION
 WELL/SPRING NUMBER..... 035-06E-17-BD

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	03S 006E 17	SE OF NW
STATE.....	ARIZONA	B&M: GILA AND SALT RIVER	
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

AS HCO3

ANALYSIS IN PPM

AG....		CO3.....	N
AL....		CR.....	0.005
AS....		CS.....	
AU....		CU.....	N
H.....	0.41	F.....	2.2
HE....		FE(TOT)...	0.05
HI....		GA.....	
HR....		GE.....	
CA....	49.	HCO3.....	117.
CA+MG.		HG.....	
CL....			
CO....	N	K.....	4.

LI...	0.164
MG...	6.
MN...	N
NA...	154.
NB...	
NH4...	
NI...	N
NO3...	5.
PB...	N

ISOTOPIES (0/000)

SI02.	19.
S04..	160.
SR...	0.384
ZN...	N

REFERENCE AND IDENTIFICATION

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

RECORD 00237

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018009

NAME OF SAMPLE SOURCE... WELL IRRIGATION

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 05S 004E 14
 STATE..... ARIZONA 86M: GILA AND SALT RIVER
 COUNTY..... PINAL
 MAP REFERENCE..... STANFIELD 1124000

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.

AS HCO3

CHARGE IMBALANCE (% DIFF).... 0.3

ANALYSIS IN PPM

ISOTOPES (U/DU)

AG.....	CO3.....	N	LI... N		
AL.....	CR.....		MG... 4.		
H..... 0.18	F..... 2.		NA... 130.	SI02. N	
HE.....	FE(TOT)...		NB... 504..	126.	
CA..... 32.	HCO3..... 137.		NO3.. 6.		
CL..... 96.					
CO.....	K..... 3.2				

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 00238

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018016

NAME OF SAMPLE SOURCE... WELL IRRIGATION

WELL/SPRING NUMBER..... 03S-06E-05-A

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 03S 006E 05 NE
 STATE..... ARIZONA 86M: GILA AND SALT RIVER
 COUNTY..... PINAL
 MAP REFERENCE..... GILA BUTTE 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1967/03/22

TEMPERATURE (C)..... 32.2

WELL DEPTH (M)..... 284.

WATER ANALYSIS

PH..... 7.9

SPECIFIC CONDUCTANCE..... 0.8

ALKALINITY..... 103.

AS HCO3

CHARGE IMBALANCE (% DIFF).... 17.6

ANALYSIS IN PPM

ISOTOPES (U/DU)

AG.....	CO3.....	N	LI... 0.05
AL.....	CR.....	0.003	MG... 7.

AS....		CS.....		MN...	0.0111		
AL....		CU.....	0.014				
FE....	0.03	F.....	0.9	NA...	92.	SiO2.	18.
NI....		FE(TOT)...	0.4720	NB...		SO4...	50.
HR....		GA.....		NH4...		SR...	0.901
CA....	28.	GE.....		NI...	N		
CA+MG.		HCO3....	103.	NO3...	1.		
CO....	N	HG.....		PB...	N		
CL....	160.						
CO....	N	K.....	4.3				
				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 SAMPLE FILE

GEOTHERM FILE 101 0018015

NAME OF SAMPLE SOURCE... WELL IRRIGATION
 WELL/SPRING NUMBER..... 03S-06E-05-A

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 03S 06E 05 NE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 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

PH..... 7.9
 SPECIFIC CONDUCTANCE..... 1.8
 ALKALINITY..... 186. AS HCO3
 CHARGE IMBALANCE (% DIFF).... 28.8
 ANALYSIS IN PPM

ISOTOPES (0/001)

AG....		CO3....	N	LI...	0.076		
AL....		CR.....	0.006	MG...	15.		
AS....		CS.....		MN...	0.005		
AL....		CU.....	0.008				
FE....	0.02	F.....	1.2	NA...	192.	SiO2.	24.
NI....		FE(TOT)...	0.237	NB...		SO4...	230.
HR....		GA.....		NH4...		SR...	2.997
CA....	77.	GE.....		NI...	N		
CA+MG.		HCO3....	186.	NO3...	6.		
CO....	N	HG.....		PB...	N		
CL....	368.						
CO....	0.0160	K.....	6.7				
				ZN...	0.017		

REFERENCE AND IDENTIFICATION

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

RECORD 00240

GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0018014

NAME OF SAMPLE SOURCE... WELL IRRIGATION

WELL/SPRING NUMBER..... 03S-06E-05-80

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 03S 006E 05 SE OF NW

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

COUNTY..... PINAL

MAP REFERENCE..... GILA BUTTE 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1967/03/22

TEMPERATURE (C)..... 33.3

WELL DEPTH (M)..... 277.

WATER ANALYSIS

PH..... 7.8

SPECIFIC CONDUCTANCE..... 0.8

ALKALINITY..... 102.62

CHARGE IMBALANCE (% DIFF).... 20.1

ANALYSIS IN PPM

ISOTOPIES (0/00)

AG..... CO3..... N LI... 0.039

AL..... CR..... 0.006 MG... 6.

AS..... CS..... MN... 0.006

AU..... CU..... 0.005

H..... 0.03 F..... 0.9 NA... 97. SI02. 16.

HE..... FE(TOT)..... 0.189 NB... S04.. 54.

HI..... GA..... NH4.. 1.27

HR..... GE..... NI... N

CA..... 27. HCU3..... 98. NO3.. 2.

CA+MG. HG..... PB... N

CD..... N

CL..... 168.

CO..... N K..... 4.4

ZN... N

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.

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

REFERENCE..... DUTT AND MCCREARY, 1970

RECORD 00241

GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0018013

NAME OF SAMPLE SOURCE... WELL IRRIGATION

WELL/SPRING NUMBER..... 03S-06E-06-8A

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 03S 006E 06 NE OF NW

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

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

PH..... 7.8

SPECIFIC CONDUCTANCE..... 0.8

ALKALINITY..... 108. AS HCO3

CHARGE IMBALANCE (% DIFF)... 18.2

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....		CO3..... N	LI...	0.062	
AL....		CR..... 0.008	MG...	10.	
AS....		CS.....	MN... N		
AU....		CU..... N			
H.... N		F..... 0.9	NA...	97.	SI02. 24.
BE....		FE(TOT)... 0.095	NB...		SO4.. 70.
HI....		GA.....	NH4..		SR... N
HR....		GE.....	NI... N		
CA.... 32.		HCO3..... 108.	NO3.. 2.		
CA+MG.		HG.....	PB... N		
CD.... N					
CL.... 172.					
CO.... N	K..... 4.9				
			ZN...	0.011	

REFERENCE AND IDENTIFICATION

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

RECORD 00242

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018012

NAME OF SAMPLE SOURCE... WELL IRRIGATION

WELL/SPRING NUMBER..... 03S-06E-06-BB

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 03S 06E 06 NW OF NW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 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

ISOTOPES (0/00)

AG....		CO3..... 4.	LI...	0.062	
AL....		CR..... 0.0120	MG...	11.	
AS....		CS.....	MN... N		
AU....		CU..... N			
H.... 0.11		F..... 1.0	NA...	117.	SI02. 23.
BE....		FE(TOT)... 0.034	NB...		SO4.. 78.
HI....		GA.....	NH4..		SR... 0.963
HR....		GE.....	NI... N		
CA.... 47.		HCO3..... 117.	NO3.. 6.		
CA+MG.		HG.....	PB... N		
CD.... N					
CL.... 208.					
CO.... 0.018	K..... 4.8				
			ZN... N		

REFERENCE AND IDENTIFICATION

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

RECORD 00243

GEOTHERM FILE ID: 0018011

GEOTHERM SAMPLE FILENAME OF SAMPLE SOURCE... WELL IRRIGATION
WELL/SPRING NUMBER..... 03S-06E-06-0

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 03S 006E 06 SE
STATE..... ARIZONA B&M: GILA AND SALT RIVER
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. AS HCO3
CHARGE IMBALANCE (% DIFF).... 3.2
ANALYSIS IN PPM

ISOTOPIES (0/00)

AG.... CO3..... N LI... 0.059
AL.... CR..... 0.008 MG... 14.
AS.... CS..... MN... N
AU.... CU..... N
H.... 0.05 F..... 0.9 NA... 146. SI02. 20.
HE.... FE(TQT) 0.119 NB... S04.. 62.
RI.... GA..... NH4.. 1.22
HR.... GE..... NI... N
CA.... 79. HCO3.... 122. NO3.. 1.
CA-MG. HG..... PB... N
CI.... N
CL.... 300.
CO.... N 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

GEOTHERM SAMPLE FILENAME OF SAMPLE SOURCE... WELL IRRIGATION
WELL/SPRING NUMBER..... 05S-07E-23-CD

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 05S 007E 23 SE OF SW
STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... PINAL
GEOLOGIC PROVINCE.. U4
MAP REFERENCE..... COOLIDGE 1124000

OTHER LOCALITY INFORMATION: EXACT LOCATION NOT KNOWN.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 46.1
WELL DEPTH (M)..... 427.

WATER ANALYSIS

PH..... 9.1

SPECIFIC CONDUCTANCE..... 1.3

CHARGE IMBALANCE (% DIFF)... 7.1

ANALYSIS IN PPM

AG....		CO3.....	5.	LI...	0.006		
AL....		CR.....		MG...	1.		
R.....	0.52	F.....	4.0	NA...	250.	SI02. N	
HE....		FE(TOT).		NB...		SO4..	124.
CA....	4.	HC03....	44.	NO3..	3.		
CL....	246.						
CO....		K.....	1.7				

ISOTOPES (0/00)

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 00245

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018005

NAME OF SAMPLE SOURCE... WELL IRRIGATION (EAST OF LOOKOUT MTN.)

WELL/SPRING NUMBER..... 075-16E-10-AAC

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 07S 016E 10 SW OF NE NE
 STATE..... ARIZONA B6M: GILA AND SALT RIVER
 COUNTY..... PINAL
 GEOLOGIC PROVINCE..

LAT/LONG... 32-50.61 N 110-41.53 W
 UTM ZONE... +12
 NORTING... 3633788.
 528560.

MAP REFERENCE..... LOOKOUT MTN. 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1969/09/25

TEMPERATURE (C)..... 34.4

WELL DEPTH (M)..... 351.

WATER ANALYSIS

PH..... 8.2

SPECIFIC CONDUCTANCE..... 7.5

ALKALINITY..... 22.

CHARGE IMBALANCE (% DIFF)... 2.0

ANALYSIS IN PPM

AS HC03

ISOTOPES (0/00)

AG....		CO3.....	N	LI...	3.7		
AL....		CR.....	N	MG...	11.		
AS....		CS.....		MN...	0.369		
AU....		CU.....	0.035				
R.....	50.6	F.....	1.5	NA...	1748.	SI02.	8006.
HE....		FE(TOT).	2.93	NB...		SO4..	3500.
HI....		GA.....		NH4..		SR...	6.535
HR....		GE.....		NI...	N		
CA....	462.	HC03....	22.	NO3..	N		
CA-MG.		HG.....		PB...	N		
CU....	0.001						
CL....	1060.						
CO....	N	K.....	19.				
				ZN...		15.141	

REFERENCE AND IDENTIFICATION

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

RECORD 00246

GEOHEM SAMPLE FILE

GEOHEM FILE ID: 0018004

NAME OF SAMPLE SOURCE... WELL IRRIGATION (NW OF CHUICU)

WELL/SPRING NUMBER..... 075-05E-21-00A

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 075 005E 21 NE OF SE SE

STATE..... ARIZONA 86M GILA AND SALT RIVER

COUNTY..... PINAL

GEOLOGIC PROVINCE..

MAP REFERENCE..... CHUICU 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1967/01/20

TEMPERATURE (C)..... 32.2

WELL DEPTH (M)..... 262.

WATER ANALYSIS

PH..... 8.3

SPECIFIC CONDUCTANCE..... 20.4

CHARGE IMBALANCE (% DIFF).... 25.3

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....

CO3..... 3.

LI... 0.016

AL....

CR..... N

MG... 3.

AS....

CS.....

MN... 0.002

AU....

CU..... N

B..... 0.13

F..... 1.

NA... 78.

S102. 26.

HE....

FE(TOT) 0.04

NB... 58.

S04.. 58.

HI....

GA.....

NH4..

SR... 0.484

HR....

GE.....

NI... N

CA..... 14.

HCO3... 56.

NO3... 6.

CA+MG.

HG.....

PB... 0.02

CD.... N

CL.... 40.

CO.... N

K..... 1.6

ZN... 0.004

REFERENCE AND IDENTIFICATION

COMPILED BY..... GOODE, H.

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

REFERENCE..... DUTT AND MCCREARY, 1970

RECORD 00247

GEOHEM SAMPLE FILE

GEOHEM FILE ID: 0015704

NAME OF SAMPLE SOURCE... 111 RANCH--SAN MANUEL WELL

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 09S 017W 24 SE OF SE SW

STATE..... ARIZONA

COUNTY..... PINAL

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1974/11/20

TEMPERATURE (C)..... 31.

OTHER SAMPLE INFORMATION.. USED TO WATER STOCK.

WATER ANALYSIS

PH..... 7.9

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 0.026		
PR-210....				TH-232.... L 0.012		
RA-226....	0.084	+/-	0.056	U-234....	1.6	+/- 0.16
RA-228....				U-238....	1.0	+/- 0.12
RN-222....	930.	+/-	53.			

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

GEOTHERM FILE ID: 0001480

NAME OF SAMPLE SOURCE... AGUA CALIENTE SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 31-41.7 N 110-57.8 W

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

RECORD 00249

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0001481

NAME OF SAMPLE SOURCE... MONKEY SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 31-38.2 N 110-42.2 W

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

RECORD 00250

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0000193

NAME OF SAMPLE SOURCE... ALKALAI SPRING

KGRA..... CASTLE HOT SPRINGS

WELL/SPRING NUMBER..... 08N-01W-33-BDD

LOCATION

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 33-59.53 N 112-22.18 W

COUNTRY..... UNITED STATES

08N 001W 33 SE OF SE NW

STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... YAVAPAI
GEOLOGIC PROVINCE.. 04
MAP REFERENCE..... GOVERNORS PEAK 112400
OTHER LOCALITY INFORMATION: CASTLE HOT SPRINGS AREA IS LOCATED 70 KM NORTHWEST OF PHOENIX, AZI 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 ALLOCHTHONOUS BLOCK IS STRONGLY BRECCIATED AND JOINTED.

WAJFK ANALYSIS

PH..... 7.85
TOTAL DISSOLVED SOLIDS... R 730.

ANALYSIS IN MG/L

AG....	CO3.....	LI...	0.42		
AL....	CR.....	MG...	0.23		
H.....	F.....	11.88	NA...	214.67	\$102. 70.78
HE....	FE(TOT).		NB...	\$04..	209.

CA.....	15.78
CL.....	135.

CO..... K..... 6.32

OTHER ANALYTICAL DATA... GEOTHERMOMETRY (DEGREES C): SiO2 (QUARTZ-ADIABATIC) 117.10; SiO2 (QUARTZ-CONDUCTIVE) 118.76;
SiO2 (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

GEO_THERM_SAMPLE_FILE

NAME OF SAMPLE SOURCE... CASA ROSA SPRING
KGRA..... CASTLE HOT SPRINGS
WELL/SPRING NUMBER..... 07N-01W-014-AC

GEOTHERM FILE 101 0000195

LOCATION

COUNTRY..... UNITED STATES 07N 001W 14 SW OF NE
STATE..... ARIZONA
COUNTY..... YAVAPAI
MAP REFERENCE..... GOVERNORS PEAK, ARIZ. 1:24000

COORDINATES

LAT/LONG... 33-57.08 N 112-19.26 W

OTHER LOCALITY INFORMATION: CASTLE HOT SPRINGS AREA IS LOCATED 70 KM NORTHWEST OF PHOENIX, ARIZONA.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 18.9
PERTINENT LITHOLOGY..... LOW ANGLE SLUMP FAULT DISPLACES AN ALLUCHTHONOUS BLOCK OF PRECAMBRIAN GRANITE ON TOP OF
... A SEQUENCE OF TERTIARY VOLCANIC ROCKS. THE ALL OCHTHONOUS BLOCK IS STRONGLY BRECCIATED AND JOINTED.

WEAPON ANALYSIS

Pd..... 7.7
TOTAL DISSOLVED SOLIDS... R 1625.

ANALYSIS IN MG/L

AG....	CO3....		LI...	1.1		
AL....	CR....		MG...	1.3		
H....	F....	4.0	NA...	540.	SiO2.	37.
HF....	FE(TOT).		NB...		SiO4..	385.

CA.....	144.
CL.....	525.

CO... K..... 14.

OTHER ANALYTICAL DATA... GEOTHERMOMETRY (DEGREES C) : SiO2 (QUARTZ, ADIABATIC) 90.62; SiO2 (QUARTZ, CONDUCTIVE) 88.06;
SiO2 (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-RANGECOORDINATES

COUNTRY..... UNITED STATES 08N 001W 34 SW OF SW LAT/LONG... 33-59.13 N 112-21.55 W

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

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

ISOTOPES (0/00)

AG....	CO3....	LI...	0.34		
AL....	CR....	MG...	2.3		
B....	F....	NA...	208.	SI02.	61.
BE....	FE(TOT).	NB...		SO4..	211.
CA....	32.				
CL....	145.				
CO....	K.....	5.4			

OTHER ANALYTICAL DATA... GEOTHERMOMETRY (DEGREES C) : SI02 (QUARTZ ADIABATIC) 110.93; SI02 (QUARTZ, CONDUCTIVE)

111.54; SI02 (CHALCEDONY) 82.38; NA-K-CA(1/3) 117.08; NA-K 77.3.

REFERENCE AND IDENTIFICATION

COMPILED BY..... PETERS, SANDRA K.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SATKIN AND OTHERS, 1980

RECORD 00253

GEOHEM SAMPLE FILE

GEOHEM FILE ID: 0002951

NAME OF SAMPLE SOURCE... CASTLE HOT SPRINGS
 WELL/SPRING NUMBER..... 08N-01W-34-CCB

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 08N 001W 34 NW OF SW SW LAT/LONG... 34-59.13 N 112-21.5 W

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

ALKALINITY..... 125. AS HCO3

TOTAL DISSOLVED SOLIDS... 789.

CHARGE IMBALANCE (% DIFF)... 1.0

ANALYSIS IN MG/L

AG....	CO3....	LI... 0.29	S....
AL....	CR....	MG... 2.4	SB....
AS....	CS.... L 0.1	MN... L 0.02	
AU....	CU.... L 0.01		
B.... 0.9	F.... 8.4	NA... 200.	SI02. 58.
RE....	FE(TOT). L 0.02	NB...	S04.. 210.
RH....	GE....	NI... L 0.02	
CA.... 33.	HCO3.... 125.		
CA+MG.	HG.... L 0.0001		
CL.... 140.			
CO....	K.... 4.7	RB... 0.02	ZN... L 0.01

ISOTOPES (0/00)

DEL D OF WATER.....	-83.2
DEL O(18) OF WATER...	-11.38

REFERENCE AND IDENTIFICATION

COMPILED BY..... TESHIN, VICTOR

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... MARINER AND OTHERS, 1977A

RECORD 00254

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0015736

NAME OF SAMPLE SOURCE... CASTLE HOT SPRINGS

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 07N 001W 34 SE OF SW SW LAT/LONG... 33-59.14 N 112-21.59 W

STATE..... ARIZONA

COUNTY..... YAVAPAI

MAP REFERENCE..... GOVERNORS PEAK 1124000

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.

RADIOISOTOPES

K-40.....	TH-230.... L 0.017
PR-210....	TH-232.... L 0.0062
RA-226.... 0.31 +/- 0.087	U-234.... 0.99 +/- 0.12
RA-228....	U-238.... 0.42 +/- 0.072

REFERENCE AND IDENTIFICATION

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

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

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

RECORD 00255

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0018902

NAME OF SAMPLE SOURCE... CASTLE HOT SPRINGS

WELL/SPRING NUMBER..... 08N-01W-34-CC

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 08N 001W 34 SW OF SW LAT/LONG... 34-59.13 N 112-21.58 W

STATE..... ARIZONA

B&M: GILA AND SALT RIVER

UTM ZONE... 12

NORTHING... 3871844.
375714.

COUNTY..... YAVAPAI
GEOLOGIC PROVINCE..
MAP REFERENCE..... GOVERNOR'S PEAK 1124000

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		
AL.... L 1.0	CR.....	MG... 2.3		
AS.... 0.024				
AU....	CU..... L 0.1	MO... 0.007	SE... 0.007	
H.... 0.88	F..... 8.3	NA... 202.	SI02. 63.	
HA.... L 0.2				
RE....	FE (TOT). L 0.15	NB... 195.	S04.. 195.	
HI....	GA.....	NH4.. L 0.05	SR... 0.1	
CA.... 29.	HCO3.... 135.	NO3.. Q 0.09		
CA+MG.	HG..... 0.0003			
CO....	H2S.....	PO4.. Q 0.03		
CL.... 144.				
CO....	K..... 6.6			
				ZN... L 0.02

ISOTOPE (0/00)

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 00256

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0000190

NAME OF SAMPLE SOURCE... CHUCK'S WELL
KGRA..... CASTLE HOT SPRINGS
WELL/SPRING NUMBER..... 07N-01W-03-CC

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 07N 001W 03 SW OF SW
STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... YAVAPAI
MAP REFERENCE..... GOVERNORS PEAK 1124000

LAT/LONG... 33-58.25 N 112-21.40 W

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 ALLOCHTHONOUS BLOCK IS STRONGLY BRECCIATED AND JOINTED.

WATER ANALYSIS

PH..... 7.45
TOTAL DISSOLVED SOLIDS... R 480.

ANALYSIS IN PPM

AG....	CO3.....	LI... 0.16		
AL....	CR.....	MG... 19.29		
B....	F..... 3.83	NA... 136.89	SI02. 51.03	
RE....	FE (TOT).	NB... 170.	S04.. 170.	
CA.... 64.47				
CL.... 81.				
CO....	K..... 3.83			

ISOTOPE (0/00)

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

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0000188

NAME OF SAMPLE SOURCE... DODD WELL
KGRA..... CASTLE HOT SPRINGS
WELL/SPRING NUMBER..... 08N-01W-033-BB

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 08N 001W 33 NW OF NW LAT/LONG... 33-59.8 N 112-22.5 W
STATE..... ARIZONA B&M: GILA AND SALT RIVER
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)..... 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 ALLOCHTHONOUS 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..... 8.19	NA....	239.26	SI02.	62.69
HE....	FE(TOT).	NB....		SO4..	228.
CA.... 25.68					
CL.... 142.					
CO....	K..... 7.29				

ISOTOPES (0/00)

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

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0000197

NAME OF SAMPLE SOURCE... DRIPPING SPRING
KGRA..... CASTLE HOT SPRINGS
WELL/SPRING NUMBER..... 07N-01W-14-BAA

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 07N 001W 14 NE OF NE NW LAT/LONG... 33-57.28 N 112-20.06 W
STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... YAVAPAI

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)..... 24.6

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.

MAJOR ANALYSIS

PH..... 7.25

TOTAL DISSOLVED SOLIDS... R 1625.

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO3....	LI...	1.05		
AL....	CR....	MG...	7.01		
H....	F..... 3.8	NA...	494.52	SI02.	30.50
HE....	FE(TOT).	NB...		SO4..	372.

CA.... 137.90

CL.... 521.

CO....

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

GEOTHERM FILE 10: 0000192

NAME OF SAMPLE SOURCE... HENDERSON RANCH SPRING

KGRA..... CASTLE HOT SPRINGS

WELL/SPRING NUMBER..... 08N-01W-33-BAD

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 08N 001W 33 SE OF NE NW

STATE..... ARIZONA

B&M: GILA AND SALT RIVER

LAT/LONG... 33-59.73 N 112-22.28 W

COUNTY..... YAVAPAI

MAP REFERENCE..... GARFAS MTN. 1:24000

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.

MAJOR ANALYSIS

PH..... 7.7

TOTAL DISSOLVED SOLIDS... R 730.

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO3....	LI...	0.55		
AL....	CR....	MG...	2.23		
H....	F..... 7.45	NA...	234.47	SI02.	60.42
HE....	FE(TOT).	NB...		SO4..	299.

CA.... 39.72

CL.... 150.

CO....

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

RECORD 00260

GEOTHERM FILE 101 0000189

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... LAYTON SEEP
 KGRA..... CASTLE HOT SPRINGS
 WELL/SPRING NUMBER..... 07N-02W-01-BCB

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 07N 002W 01 NW OF SW NW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... YAVAPAI

LAT/LONG... 33-58.83 N 112-25.57 W

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)..... 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.

ANALYSIS IN PPM

ISOTOPES (0/001)

AG....	CO3....	LI....	0.06		
AL....	CR....	MG....	14.08		
B....	F....	NA....	14.08	SI02.	39.11
HE....	FE(TOT)...	NB....		SO4..	8.6
CA....	88.87				
CL....	11.3				
CO....	K.....	1.62			

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 101 0000196

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... MENUJO SPRING
 KGRA..... CASTLE HOT SPRINGS
 WELL/SPRING NUMBER..... 07N-01W-14-BBC

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 07N 001W 14 SW OF SW NW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... YAVAPAI

LAT/LONG... 33-57.13 N 112-20.50 W

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)..... 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.

ANALYSIS IN PPM

ISOTOPES (0/001)

AG....	CO3....	LI...	0.04		
AL....	CR....	MG...	16.37		
H....	F.....	NA...	25.37	SI02.	75.55
HE....	FE(TOT).	NB...		S04..	23.7
CA....					
CL....					
CO....					

OTHER ANALYTICAL DATA... GEOTHERMOMETRY (DEGREES C): SI02 (QUARTZ-ADIABATIC) 119.95; SI02 (QUARTZ-CONDUCTIVE) 122.11;
 SI02 (CHALCEDONY) 93.88; NA-K-CA (H=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 SAMPLE FILE

GEOTHERM FILE ID: 0000187

NAME OF SAMPLE SOURCE... MESQUITE DRIP
 KGRA..... CASTLE HOT SPRINGS
 WELL/SPRING NUMBER..... 07N-01W-033-BD

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 07N 001W 33 SE OF NW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... YAVAPAI

LAT/LONG... 33-53.3 N 112-22.5 W

MAP REFERENCE..... GOVERNORS PEAK 1124000

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 ALLOCHTHONOUS BLOCK IS STRONGLY BRECCIATED AND JOINTED.

WATER ANALYSIS

PH..... 7.90

TOTAL DISSOLVED SOLIDS... R 730.

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO3....	LI...	0.54		
AL....	CR....	MG...	0.48		
H....	F.....	NA...	253.88	SI02.	71.39
HE....	FE(TOT).	NB...		S04..	228.
CA....					
CL....					
CO....					

OTHER ANALYTICAL DATA... GEOTHERMOMETRY (DEGREES C): SI02 (QUARTZ-ADIABATIC) 117.47; SI02 (QUARTZ-CONDUCTIVE) 119.19;
 SI02 (CHALCEDONY) 90.70; NA-K-CA (H=4/3) 103.32; NA-K-CA (H=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 SAMPLE FILE

GEOTHERM FILE ID: 0000212

NAME OF SAMPLE SOURCE... TROUT CREEK SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES

LAT/LONG... 35-02.4 N 113-09.6 W

STATE..... ARIZONA B&M: GILA AND SALT RIVER
 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. S102. 60.
 HE.... FE(TOT)... NB... S04.. 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

ISOTOPES (G/100)

RECORD 00264

GEOOTHERM SAMPLE FILE

GEOOTHERM FILE ID: 0001482

NAME OF SAMPLE SOURCE... UNNAMED SPRING
LOCATION TOWNSHIP-RANGE
 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

COORDINATES

LAT/LONG... 34-04.6 N 111-42.5 W

RECORD 00265

GEOOTHERM SAMPLE FILE

GEOOTHERM FILE ID: 0002950

NAME OF SAMPLE SOURCE... VERDE HOT SPRINGS
LOCATION TOWNSHIP-RANGE
 COUNTRY..... UNITED STATES
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... YAVAPAI
 GEOLOGIC PROVINCE.. 04
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.
SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 36.0
 DISCHARGE..... 200. L/MIN
 OTHER SAMPLE INFORMATION.. LOCATION NOT VERIFIED WHEN UPDATED.
WATER ANALYSIS

COORDINATES

LAT/LONG... 34-59.13 N 111-21.5 W
 UTM ZONE... 12
 NORTHING... 3536482.
 309390.

PH..... 6.5
 ALKALINITY..... 1570. AS HCO3
 TOTAL DISSOLVED SOLIDS... 3931.
 CHARGE IMBALANCE (% DIFF)... 3.6

ANALYSIS IN MG/L

AG....		CO3.....		LI...	1.2	S....	
AL....	0.002	CR.....		MG...	39.	SB...	
AS....		CS.....	L 0.1	MN...	0.06		
AU....		CU.....	0.01				
B....	8.9	F.....	1.4	NA...	950.	SI02.	69.
BE....		FE(TOT)...	0.02	NH...		S04..	560.
BR....		GE.....		NI...	0.027		
CA....	110.	HCO3.....	1570.				
CA+MG.		HG.....	0.0002				
CL....	550.						
CU....		K.....	35.	RB...	0.1	ZN...	0.04

ISOTOPES (0/00)

DEL D OF WATER..... -85.2
 DEL O(18) OF WATER... -11.65

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH4... L 0.1
 C2H6...
 CO2... 73.
 N2... 20.

ISOTOPES (00/0)

REFERENCE AND IDENTIFICATION

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

RECORD 00266

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0018076

NAME OF SAMPLE SOURCE... VERDE HOT SPRINGS

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 11N 006E 03
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... YAVAPAI
 GEOLOGIC PROVINCE.. 04

LAT/LONG... 34-21.32 N 111-42.53 W
 UTM ZONE... +12
 NORTHING... 3801550.
 434858.

MAP REFERENCE..... VERDE HOT SPRINGS 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 40.0

WATER ANALYSIS

PH..... 6.99
 ALKALINITY..... 1388.1 AS HCO3
 TOTAL DISSOLVED SOLIDS... 3236.
 CHARGE IMBALANCE (% DIFF)... 2.3

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	L 0.06	CO3.....	N	LI...	1.33		
AL....	L 1.0	CR.....		MG...	39.5		
AS....	0.051						
AU....		CU.....	L 0.1	MU...		SE...	0.024
B....	0.44	F.....	1.52	NA...	933.8	SI02.	75.24
BA....	0.29						
BE....		FE(TOT)...	0.78	NH...		S04..	550.4
BI....		GA.....		NH4..	L 0.05	SR...	3.19
CA....	103.6	HCO3.....	1388.1	NO3..	0.31		
CA+MG.		HG.....	0.0003				
CD....		H2S.....		PO4..	0 1.5		
CL....	524.9						

CO.... K..... 40.3 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

RECORD 00267

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0018176

NAME OF SAMPLE SOURCE... WELL AT VERDE HOT SPRINGS
 WELL/SPRING NUMBER..... 11N-06E-03-B

LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE 11N 06E 03 NW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... YAVAPAI
 MAP REFERENCE..... VERDE HOT SPRING 1124000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

COORDINATES
 LAT/LONG... 34-21.3 N 111-42.5 W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1951/12/10
 TEMPERATURE (C)..... 39.4

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 4660.
 ALKALINITY..... 1560. AS HCO3
 TOTAL DISSOLVED SOLIDS... 3100.
 ANALYSIS IN PPM

ISOTOPES (0/00)

AL....	CR.....	MG...	45.		
R....	F.....	NA...		S102.	60.
RA....	FE+3....	NA+K.	996.		
RE....	FE(TOT)..	NB...		S04..	566.
CA.... 116.	HCO3.... 1560.	NO3..	0.3		
CL.... 545.					

OTHER ANALYTICAL DATA... CaCO3=474.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... FETH AND HEM, 1963

RECORD 00268

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0000191

NAME OF SAMPLE SOURCE... WINDMILL WELL
 KGRA..... CASTLE HOT SPRINGS
 WELL/SPRING NUMBER..... 07N-01W-03-CAA

LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE 07N 001W 03 NE OF SW SW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... YAVAPAI
 MAP REFERENCE..... GOVERNORS PEAK 1124000

COORDINATES
 LAT/LONG... 33-58.25 N 112-21.40 W

OTHER LOCALITY INFORMATION: CASTLE HOT SPRINGS AREA IS LOCATED 70 KM NORTHWEST OF PHOENIX, ARI 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 ALLOCHTHONOUS BLOCK IS STRONGLY BRECCIATED AND JOINTED.

WATER ANALYSIS

PH..... 7.55
 TOTAL DISSOLVED SOLIDS... W 480.
 ANALYSIS IN PPM

ISOTOPES (0/00)

AG.... CO3..... LI... 0.11
 AL.... CR..... MG... 22.26
 H..... F..... 2.11 NA... 93.54 SI02. 42.22
 HE.... FE(TOT). NB... S04.. 122.
 CA.... Su.20
 CL.... Su.
 CO.... K..... 3.45

OTHER ANALYTICAL DATA... GEOTHERMOMETRY (DEGREES C): SI02 (QUARTZ-ADIABATIC) 95.87; SI02 (QUARTZ-CONDUCTIVE) 94.08;
 SI02 (CHALCEONY) 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 SAMPLE FILE

GEOTHERM FILE ID: 0015705

NAME OF SAMPLE SOURCE... CITRUS VALLEY DEVELOPMENT IRRIGATION WELL

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 08S 017W LAT/LONG... 32-41.9 N 113-57.2 W

STATE..... ARIZONA

COUNTY..... YUMA

MAP REFERENCE..... AJO 1125000

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		
PH-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 SAMPLE FILE

GEOTHERM FILE ID: 0018099

NAME OF SAMPLE SOURCE... PUMPED HOT WELL (EAST OF PALOMAS MTS.-2)

WELL/SPRING NUMBER..... 05S-12W-09-CCC

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 05S 012W 09 SW OF SW SW LAT/LONG... 33-00.02 N 113-30.57 W

STATE..... ARIZONA

COUNTY..... YUMA

GEOLOGIC PROVINCE.. U4

MAP REFERENCE..... PALOMAS MTS. 1162500

UTM ZONE... 12

NORTHING... 3653891.

265646.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 41.6

HAIR ANALYSIS

PH.....	8.02	
ALKALINITY.....	125.7	AS HC03
TOTAL DISSOLVED SOLIDS...	624.	
CHANGE IMBALANCE (% DIFF)...	9.4	

CHARGE IMBALANCE (% DIFF)... 9.4

ANALYSIS IN PPM

ANALYSIS IN PPM		CO3..... N		LI.... 0.19			
AG....	L 0.07	CR.....		MG...	1.7		
AL....	L 1.10						
AS....	0.110						
AU....		CU.....	L 0.12	MO...		SE...	0.005
H....	0.54	F.....	3.6	NA...	151.3	SI02.	45.61
HA....	L 0.2						
HE....		FE (TOT).	L 0.11	N8...		S04..	86.4
HI....		GA.....		NH4..	L 0.05	SR...	0.04
CA....	21.6	HCO3....	125.7	NO3..	18.76		
CA+MG.		HG.....	0.0009				
CU....		H2S.....		P04..	0.09		
CL....	165.9						
CU....		K.....	4.7			ZN...	0.08

ISOLOPES (0/00)

QUALIFICATION FIELD..... NO3 EQUALS NO2 + NO3. PO4 CALCULATED FROM P.

REFERENCE AND IDENTIFICATION

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

RECORD 00271

GEOHERM_SAMPLE_FILE

NAME OF SAMPLE SOURCE... PUMPED HOT WELL (EAST OF PALOMAS MIS.)

WELL/SPRING NUMBER..... 05S-12W-04-DCC

LOCATION

COUNTRY.....	UNITED STATES	05S 012W 04	SW OF SW NE
STATE.....	ARIZONA	B&M: GILA AND SALT RIVER	
COUNTY.....	YUMA		
GEOLOGIC PROVINCE..	04		
MAP REFERENCE.....	PALOMAS MTNS. 1:62500		

COORDINATES

LAT/LONG... 33-00.93 N 113-30.13 W
UTM ZONE... 412
NORTHING... 3655743.
2655335.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 30.2

WATER ANALYSIS

PH.....	7.91	
ALKALINITY.....	148.9	AS HCO3
TOTAL DISSOLVED SOLIDS...	752.	
CHARGE IMBALANCE (% DIFF)...	4.2	

CHARGE IMBALANCE (% DIFF)... 4.2

ANALYSIS IN PPM

ANALYSIS IN PER		CO3..... N		MG...		7.4	
AG....		CR.....		NA...	200.2	5102.	47.86
AL....		F.....	3.18	NB...		504..	153.2
BA....	0.52	FE(TOT) L	0.11				
BE....		HCO3....	148.9				
CA....	43.7	H2S.....		PO4..	0.03		
CU....							
CL....	193.2						
CO....		K.....	9.0				

ISOLOPES (0/00)

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

REFERENCE AND IDENTIFICATION

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

REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00272

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018094

NAME OF SAMPLE SOURCE... PUMPED HOT WELL (NORTH OF AUGA CALIENTE MTS.)

WELL/SPRING NUMBER..... 04S-11W-02-BBB

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 04S 011W 02 NW OF NW NW

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

COUNTY..... YUMA

GEOLOGIC PROVINCE.. 04

LAT/LONG... 33-07.00 N 113-22.42 W

UTM ZONE... +12

NORTHING... 3666536.
278555.

MAP REFERENCE..... HYDER SE 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 39.5

WATER ANALYSIS

PH..... 8.18

ALKALINITY..... 90.3

AS HCO3

TOTAL DISSOLVED SOLIDS... 880.

CHARGE IMBALANCE (% DIFF)... 8.9

ANALYSIS IN PPM

ISOTOPES (0/00)

AG.... L 0.07 CO3..... N LI... 0.26

AL.... L 1.10 CR..... MG... 1.7

AS.... 0.054

AU.... CU..... L 0.12

B.... 0.88 F..... 5.67

BA.... L 0.2

BF.... FE(TOT). L 0.11

BI.... GA.....

CA.... 34.8 HCO3.... 90.3

CA+MG. HG..... 0.0008

CD.... H2S.....

CL.... 305.6

CO.... K..... 4.7

ZN... 0.06

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 00273

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018095

NAME OF SAMPLE SOURCE... PUMPED HOT WELL (NORTHEAST OF BARAGAN MTS.)

WELL/SPRING NUMBER..... 04S-11W-05-BBB

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 04S 011W 05 NW OF NW NW

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

COUNTY..... YUMA

GEOLOGIC PROVINCE.. 04

LAT/LONG... 33-07.02 N 113-25.53 W

UTM ZONE... +12

NORTHING... 3666056.
275276.

MAP REFERENCE..... BARAGAN MOUNTAIN 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 38.8

WATER ANALYSIS

PH..... 7.99

ALKALINITY..... 114.7

AS HCO3

TOTAL DISSOLVED SOLIDS... 532.

CHARGE IMBALANCE (% DIFF)... 4.3

ANALYSIS IN PPM

ISOTOPIES (0/00)

AG....		CO3..... N				
AL....		CR.....	MG...	1.9		
H....	0.34	F.....	NA...	140.5	SI02.	46.74
FE....		FE(TOT). L	NB...		S04..	88.
CA....	23.4	HCO3....				
CU....		H2S.....	P04..	0.03		
CL....	119.1					
CO....		K.....				

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 00274

GEOTERM SAMPLE FILE

GEOTHERM FILE 101 0018096

NAME OF SAMPLE SOURCE... PUMPED HOT WELL (SOUTH OF HAHAGAN MTS.)

WELL/SPRING NUMBER..... 05S-12W-03-AAA

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 05S 012W 03 NE OF NE NE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... YUMA
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... HAHAGAN MTN. 1124000

LAT/LONG... 33-01.75 N 113-28.57 W
 UTM ZONE... +12
 NORTHING... 3657698.
 268853.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 32.2

WATER ANALYSIS

PH..... 7.97
 ALKALINITY..... 137.9 AS HCO3
 TOTAL DISSOLVED SOLIDS... 568.
 CHARGE IMBALANCE (% DIFF)... 0.3

ANALYSIS IN PPM

ISOTOPIES (0/00)

AG....		CO3..... N				
AL....		CR.....	MG...	2.4		
H....	0.36	F.....	NA...	153.1	SI02.	46.74
FE....		FE(TOT). L	NB...		S04..	92.2
CA....	20.	HCO3....				
CU....		H2S.....	P04..	0.03		
CL....	129.7					
CO....		K.....				

K..... 7.4

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

REFERENCE AND IDENTIFICATION

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

RECORD 00275

GEOTERM SAMPLE FILE

GEOTHERM FILE 101 0018098

NAME OF SAMPLE SOURCE... PUMPED WELL (EAST OF PALOMAS MTS.-2)

WELL/SPRING NUMBER..... 05S-12W-09-CBA

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 05S 012W 09 NE OF NW SW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER

LAT/LONG... 33-00.4 N 113-30.5 W
 UTM ZONE... +12

COUNTY..... YUMA
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... PALOMAS MTS. 1:62500
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

NORTHING... 3654630.
 265664.

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

ISOTOPE (0/00)

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...		SO4..	90.8
CA.... 15.4	HC03.... 133.				
CU....	H2S.....	PO4..	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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018054

NAME OF SAMPLE SOURCE... PUMPED WELL (NE OF SALOME)

WELL/SPRING NUMBER..... 05N-13W-01-BCC

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 05N 013W 01 SW OF SW NW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... YUMA
 GEOLOGIC PROVINCE.. 04

LAT/LONG... 33-48.27 N 113-34.28 W
 UTM ZONE... 12
 NORTHING... 3743311.
 262089.

MAP REFERENCE..... SALOME 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 31.1

WATER ANALYSIS

PH..... 8.44
 ALKALINITY..... 201.4 AS HC03
 TOTAL DISSOLVED SOLIDS... 328.
 CHARGE IMBALANCE (% DIFF)... 17.6
 ANALYSIS IN PPM

ISOTOPE (0/00)

AG....	CO3..... N				
AL....	CR.....	MG...	1.7		
H..... 0.23	F..... 2.27	NA...	118.6	SI02.	24.
HE....	FE(TOT). L 0.1	NB...		SO4..	8.7
CA.... 6.8	HC03.... 201.4				
CU....	H2S.....	PO4..	0.12		
CL.... 41.1					

CO.... K..... 1.6
 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 00277

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018047

NAME OF SAMPLE SOURCE... RADIUM SPRINGS WELL

WELL/SPRING NUMBER..... 085-18W-12-CC

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 08S 018W 12 SW OF SW

STATE..... ARIZONA 8&M: GILA AND SALT RIVER

COUNTY..... YUMA

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... WELLTON MESA 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 50.

WATER ANALYSIS

PH..... 8.64

TOTAL DISSOLVED SOLIDS... 2240.

CHARGE IMBALANCE (% DIFF)... 5.8

ANALYSIS IN PPM

ISOTOPES (0/00)

AG..... CO3..... 24.

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

H..... 3.18 F..... 4.14 MG... 11.7

HE..... FE(TOT)... 4.72 NA... 864.9 SI02. 18.5

CA..... 46.1 HCO3.... 297.8 NO3.. 0.31 S04.. 158.5

CD..... H2S..... PO4.. 0 0.31

CL..... 1056.1

CU..... K..... 17.2

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 00278

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018224

NAME OF SAMPLE SOURCE... UNNAMED WELL EAST OF AGUA CALIENTE MINS.

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 05S 011W 12 NE OF NW SE

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

SPECIFIC CONDUCTANCE..... 1240.

TOTAL DISSOLVED SOLIDS... 711.

ANALYSIS IN PPM

ISOTOPES (0/00)

AL..... CR..... MG... 1.7

H..... 0.92 F..... 4.9

HA.... FE+3.... NA+K. 249.
 HE.... FE(TOT). NB... 504.. 138.
 CA.... 16. HCO3.... 90. NO3.. 72.
 CL.... 250.

OTHER ANALYTICAL DATA... CA+3=47.

REFERENCE AND IDENTIFICATION

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

RECORD 00279

GEO THERM SAMPLE FILE

GEO THERM FILE 101 0018208

NAME OF SAMPLE SOURCE... UNNAMED WELL EAST OF AZTEC HILLS

WELL/SPRING NUMBER..... 07S-11W-27-CDD

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 07S 011W 27 SE OF SE SW LAT/LONG... 32-46.96 N 113-22.71 W

STATE..... ARIZONA 86M: GILA AND SALT RIVER

COUNTY..... YUMA

MAP REFERENCE..... AZTEC HILLS 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1964/08/00

TEMPERATURE (C)..... 32.

WELL DEPTH (M)..... 180.

WATER ANALYSIS

PH..... 8.9

SPECIFIC CONDUCTANCE..... 1190.

TOTAL DISSOLVED SOLIDS... 714.

CHARGE IMBALANCE (% DIFF)... 1.0

ANALYSIS IN MG/L

ISOTOPIES (0/00)

AG....	C03....	13.	LI...	0.6		
AL....	CR....		MG...	2.1		
B....	1.5	F....	8.0	NA...	220.	52.
BE....		FE(TOT).		NB...	504..	154.
CA....	21.	HCO3....	66.	NO3..	4.9	
CL....	202.					
CO....	K.....	2.7				

OTHER ANALYTICAL DATA... CA+3=61. SAR=12.

REFERENCE AND IDENTIFICATION

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

REFERENCE..... WEIST, 1965

RECORD 00280

GEO THERM SAMPLE FILE

GEO THERM FILE 101 0018198

NAME OF SAMPLE SOURCE... UNNAMED WELL EAST OF BARAGAN MT.

WELL/SPRING NUMBER..... 04S-11W-16-BBB

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 04S 011W 16 NW OF NW NW LAT/LONG... 33-05.27 N 113-24.49 W

STATE..... ARIZONA 86M: GILA AND SALT RIVER

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

WATER ANALYSIS

PH..... 8.1
 SPECIFIC CONDUCTANCE.... 1180.
 TOTAL DISSOLVED SOLIDS... 680.
 C-HARGE IMBALANCE (% DIFF)... 3.3

ANALYSIS IN MG/L

AG....	CO3..... N	LI...	0.59		
AL....	CR.....	MG...	2.7		
H..... 0.39	F..... 3.8	NA...	165.	SI02..	40.
HE....	FE(TOT)..	NB...		S04..	94.
CA.... 65.	MC03.... 96.	NO3..	17.		
CL.... 240.					
CO....	K..... 5.0				

ISOTOPIES (0/00)

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

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018227

NAME OF SAMPLE SOURCE... UNNAMED WELL EAST OF PALOMAS MTNS.

LOCATION

TOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 05S 012W 16 NW OF NW NW LAT/LONG... 33-00.00 N 113-30.55 W
 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....	CR.....	MG...	3.		
HA....	FE+3....	NA+K..	150.		
HE....	FE(TOT)..	NB...		S04..	84.
CA.... 18.	MC03.... 115.	NO3..	12.		
CL.... 136.					

ISOTOPIES (0/00)

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

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018206

NAME OF SAMPLE SOURCE... UNNAMED WELL EAST OF PALOMAS MT.

WELL/SPRING NUMBER..... 05S-12W-21-888

LOCATION

TOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 05S 012W 21 NW OF NW NW LAT/LONG... 32-59.15 N 113-30.52 W
 STATE..... ARIZONA H&M GILA AND SALT RIVER
 COUNTY..... YUMA
 GEOLOGIC PROVINCE.. 04

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		
B.....	0.46	F..... 4.0	NA...	185.	SI02.	47.
RE....		FE(TOT).	NH...		SO4..	97.
CA....	47.	HCO3.... 124.	NO3..	19.		
CL....	238.					
CO....		K..... 9.3				

ISOTOPIES (0/00)

OTHER ANALYTICAL DATA... CaCO3=148.. SAR=6.6

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... WEIST, 1965

RECORD 00283

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0018212

NAME OF SAMPLE SOURCE... UNNAMED WELL EAST OF WHITE WING RANCH (1)

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	05S 012W 24	SE OF SE NW	LAT/LONG...	32-58.7 N 113-27.0 W
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		
B.....	1.9	F..... 8.2	NA...	249.	SI02.	38.
RE....		FE(TOT).	NH...		SO4..	205.
CA....	31.	HCO3.... 88.	NO3..	1.3		
CL....	232.					
CO....		K..... 5.0				

ISOTOPIES (0/00)

OTHER ANALYTICAL DATA... CaCO3=81.. SAR=12.

REFERENCE AND IDENTIFICATION

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

RECORD 00284

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0018230

NAME OF SAMPLE SOURCE... UNNAMED WELL EAST OF WHITE WING RANCH (2)
LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 05S 012W 28 NE OF NE NE LAT/LONG... 32-58.2 N 113-29.6 W

STATE..... ARIZONA

COUNTY..... YUMA

MAP REFERENCE..... AZTEC NW 1124000

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

ISOTOPES (0/00)

AL....	CR.....	MG...	6.2		
H....	F..... 4.4	NA...		SI02.	48.
HA....	FE+3...	NA+K.	222.		
HE....	FE(TOT).	NB...		S04..	96.
CA.... 40.	HCO3.... 102.	NO3..	15.		
CL.... 285.					
CO.... N					

OTHER ANALYTICAL DATA... CaCO3=126.

REFERENCE AND IDENTIFICATION

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

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

RECORD 00285

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0018192

NAME OF SAMPLE SOURCE... UNNAMED WELL IN MCMULLEN VALLEY

WELL/SPRING NUMBER..... 06N-12W-13-000

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 12N 006W 13 SE OF SE SE LAT/LONG... 33-51.45 N 113-27.21 W

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

COUNTY..... YUMA

MAP REFERENCE..... GLADDEN 1162500

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

ISOTOPES (0/00)

AG....	CO3..... N				
R....	F..... 4.0				
HE....	FE(TOT).	NH...		S04..	55.
CA....	HCO3.... 164.				
CL.... 64.					

OTHER ANALYTICAL DATA... CaCO3=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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018191

NAME OF SAMPLE SOURCE... UNNAMED WELL IN MCMULLEN VALLEY

WELL/SPRING NUMBER..... 06N-12W-13-DDD

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 12N 006W 13 SE OF SE SE

LAT/LONG... 33-51.45 N 113-27.21 W

STATE..... ARIZONA

B&M: GILA AND SALT RIVER

COUNTY..... YUMA

MAP REFERENCE..... GLADDEN 1162500

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

ISOTOPES (0/00)

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

CA.... HCO3..... 158.

CL.... 62.

OTHER ANALYTICAL DATA... CA03=22.

REFERENCE AND IDENTIFICATION

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

REFERENCE..... BRIGGS, 1969

RECORD 00287

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018190

NAME OF SAMPLE SOURCE... UNNAMED WELL IN MCMULLEN VALLEY

WELL/SPRING NUMBER..... 06N-12W-13-DDD

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 12N 006W 13 SE OF SE SE

LAT/LONG... 33-51.45 N 113-27.21 W

STATE..... ARIZONA

B&M: GILA AND SALT RIVER

COUNTY..... YUMA

MAP REFERENCE..... GLADDEN 1162500

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

ISOTOPES (0/00)

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

CA.... HCO3..... 156.

CL.... 58.

OTHER ANALYTICAL DATA... CA03=20.

REFERENCE AND IDENTIFICATION

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

REFERENCE..... BRIGGS, 1969

RECORD 00288

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0018219

NAME OF SAMPLE SOURCE... UNNAMED WELL NE OF BARAGAN MTNS.

LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 33-07.00 N 113-25.53 W

COUNTRY..... UNITED STATES 04S 011W 05 NW OF NW NW

STATE..... ARIZONA

COUNTY..... YUMA

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... BARAGAN MTN. 1124000

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

ISOTOPIES (0/00)

AL.....	CR.....	MG...	2.1		
R..... 5.3	F..... 4.8	NA...		5102.	51.
HA.....	FE+3...	NA+K.	147.		
HE.....	FE(TOT).	NB...		504..	86.
CA..... 23.	HCO3.... 112.	NO3..	12.		
CL..... 129.					

OTHER ANALYTICAL DATA... CaCO3=66.

REFERENCE AND IDENTIFICATION

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

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

RECORD 00289

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0018210

NAME OF SAMPLE SOURCE... UNNAMED WELL NE OF WHITE WING RANCH (1)

LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 32-59.2 N 113-27.9 W

COUNTRY..... UNITED STATES 05S 012W 14 SW OF SW SE

STATE..... ARIZONA

COUNTY..... YUMA

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... AZTEC NW 1124000

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

ISOTOPIES (0/00)

AG.....	CO3.....	LI...	0.72		
AL.....	CR.....	MG...	0.7		
H..... 2.0	F..... 7.6	NA...	232.	5102.	31.
HE.....	FE(TOT).	NH...		504..	107.

CA.... 22. HCO3.... 72. NO3.. 6.0
 CL.... 224. K..... 3.1
 CU....

OTHER ANALYTICAL DATA... CA03=58.. SAR=13.

REFERENCE AND IDENTIFICATION

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

RECORD 00290

GEOHEM SAMPLE FILE

GEOHEM FILE 101 0018194

NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF AGUA CALIENTE MTS. (1)

WELL/SPRING NUMBER..... 04S-11W-02-BBB

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 04S 011W 02 NW OF NW NW

LAT/LONG... 33-07.01 N 113-22.42 W

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

COUNTY..... YUMA

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... HYDER SE 112400

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.... CO3.... 16. LI... 0.48

AL.... CR.... MG... 1.0

H.... 1.0 F.... 5.6 NA... 201. SI02. 61.

RE.... FE(TOT). NB... S04.. 118.

CA.... 16. HCO3.... 70. NO3.. 7.0

CL.... 186.

OTHER ANALYTICAL DATA... CA03=44.. SAR=13.

REFERENCE AND IDENTIFICATION

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

REFERENCE..... WEIST, 1965

RECORD 00291

GEOHEM SAMPLE FILE

GEOHEM FILE 101 0018197

NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF AGUA CALIENTE MTS. (3)

WELL/SPRING NUMBER..... 04S-11W-12-BBB

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 04S 011W 12 NW OF NW NW

LAT/LONG... 33-6.13 N 113-21.41 W

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

COUNTY..... YUMA

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... HYDER SE 112400

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

ISOTOPES (0/00)

AG....		CO3.....	N	LI...	0.95		
AL....		CR.....		MG...	5.8		
H.....	1.2	F.....	5.0	NA...	350.	SI02.	49.
HE....		FE(TOT)...		NB...		SO4..	132.
CA....	81.	HCO3....	88.	NO3..	17.		
CL....	55/.						
CO....		K.....	9.7				

OTHER ANALYTICAL DATA... CaCO3=226., SAR=10.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... WEIST, 1965

RECORD 00292

GEO THERM SAMPLE FILE

GEOTHERM FILE 101 0018196

NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF AGUA CALIENTE MTS. (2)

WELL/SPRING NUMBER..... 04S-11W-12-ABB

LOCATION

TOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 04S 011W 12 NW OF NW NE
 STATE..... ARIZONA 86M: GILA AND SALT RIVER
 COUNTY..... YUMA

LAT/LONG... 33-06.13 N 113-20.86 W

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

WATER ANALYSIS

PH..... 8.9
 SPECIFIC CONDUCTANCE..... 1100.
 TOTAL DISSOLVED SOLIDS... 657.

ANALYSIS IN MG/L

ISOTOPES (0/00)

AG....		CO3.....	13.	LI...	0.48		
AL....		CR.....		MG...	1.0		
H.....	0.99	F.....	5.2	NA...	215.	SI02.	56.
HE....		FE(TOT)...		NB...		SO4..	118.
CA....	10.	HCO3....	84.	NO3..	4.7		
CL....	192.						

OTHER ANALYTICAL DATA... CaCO3=29., SAR=17

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... WEIST, 1965

RECORD 00293

GEO THERM SAMPLE FILE

GEOTHERM FILE 101 0018218

NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF AGUA CALIENTE MTS. (6)

LOCATION

TOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 04S 010W 07 NW OF NW NW
 STATE..... ARIZONA

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

ISOTOPES (0/00)

RECORD 00294

GEO THERM SAMPLE FILE GEO THERM FILE 101 0018217
 NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF AQUA CALIENTE MTNS. (5)
LOCATION TOWNSHIP-RANGE COORDINATES
 COUNTRY..... UNITED STATES 04S 010W 06 NW OF NW NW LAT/LONG... 33-07.00 N 113-20.40 W
 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.
 OTHER SAMPLE INFORMATION.. REFERENCE NOT AVAILABLE, RECORD NOT VERIFIED
WATER ANALYSIS
 SPECIFIC CONDUCTANCE..... 2530.
 TOTAL DISSOLVED SOLIDS... 1420.
 ANALYSIS IN PPM
 AL..... CR..... MG... 12.
 H..... 1.4 F..... 5.1
 BA..... FE+3.... NA+K. 442.
 BE..... FE(TOT). NB... 504.. 225.
 CA..... 74. HC03.... 94. NO3.. 4.1
 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

ISOTOPES (0/00)

RECORD 00295

GEO THERM SAMPLE FILE GEO THERM FILE 101 0018202
 NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF AQUA CALIENTE MTNS. (4)
 WELL/SPRING NUMBER..... 05S-11W-01-DCB
LOCATION TOWNSHIP-RANGE COORDINATES
 COUNTRY..... UNITED STATES 05S 011W 01 NW OF SW SE LAT/LONG... 33-01.1 N 113-20.8 W
 STATE..... ARIZONA BAM: GILA AND SALT RIVER
 COUNTY..... YUMA

MAP REFERENCE..... HYDER SE 1124000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
 SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1964/08/00
 TEMPERATURE (C)..... 32.
 WELL DEPTH (M)..... 274.

WATER ANALYSIS

P.H..... 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.....		MG...	0.4		
B.....	0.77	F.....	4.6	NA...	210.	SI02.	36.
RE.....		FE(TOT)...		NH...		SO4..	111.
CA.....	4.3	HCO3.....	81.	NO3..	8.3		
CL.....	178.						
CO.....		K.....	2.1				

ISOTOPES (0/00)

OTHER ANALYTICAL DATA... CaCO3=12.. SAR=26.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... WEIST, 1965

RECORD 00296

GEOTERM SAMPLE FILE

GEOTERM FILE 101 0018220

NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF BARAGAN MTN

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	04S 011W 06	NW OF NE NE	LAT/LONG...	33-07.00 N 113-25.78 W
STATE.....	ARIZONA				
COUNTY.....	YUMA				
GEOLOGIC PROVINCE..	04				

MAP REFERENCE..... BARAGAN MTN. 1124000

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		
B.....		F.....	4.8	NA...		SI02.	57.
HA.....		FE+3.....		NA+K.	133.		
RE.....		FE(TOT)...		NH...		SO4..	81.
CA.....	22.	HCO3.....	128.	NO3..	10.		
CL.....	100.						

ISOTOPES (0/00)

OTHER ANALYTICAL DATA... CaCO3=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

GEOTERM FILE 101 0018228

NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF HORN (2)
 LOCATION TOWNSHIP-RANGE COORDINATES
 COUNTRY..... UNITED STATES 05S 012W 21 SE OF NW NW LAT/LONG... 32-58.95 N 113-30.45 W
 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. ISOTOPES (0/00)
 AG..... CO3..... 10.
 AL..... CR..... MG... 3.6
 B..... F..... 4.0 NA... 5102. 55.
 BA..... FE+3... NA+K. 169.
 BE..... FE(TOT). NB... 504.. 92.
 CA..... 2v. HCO3.... 120. NO3.. 8.6
 CL..... 145.
 OTHER ANALYTICAL DATA... CACO3=65.
 REFERENCE AND IDENTIFICATION
 COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... *ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY

RECORD 00298

 GEOTHERM SAMPLE FILE GEOTHERM FILE ID: 0018207
 NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF HORN, ARIZONA
 WELL/SPRING NUMBER..... 05S-12W-33-CD1
 LOCATION TOWNSHIP-RANGE COORDINATES
 COUNTRY..... UNITED STATES 05S 012W 33 NE OF SE SW LAT/LONG... 32-56.73 N 113-30.15 W
 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 ISOTOPES (0/00)
 AG..... CO3..... 3. LI... 0.48
 AL..... CR..... MG... 1.6
 H..... 0.42 F..... 4.1 NA... 5102. 39.
 BE..... FE(TOT). NB... 504.. 75.
 CA..... 11. HCO3.... 104. NO3.. 11.
 CL..... 144. K..... 3.6
 CU.....

OTHER ANALYTICAL DATA... CAC03=34., SAR=12.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... WEIST, 1965

RECORD 00299

GEOTERM SAMPLE FILE

GEOTHERM FILE ID: 0018229

NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF WHITE WING RANCH (4)

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 05S 012W 22 SW OF NW NW LAT/LONG... 32-59.04 N 113-29.54 W

STATE..... ARIZONA

COUNTY..... YUMA

MAP REFERENCE..... AZTEC NW 1124000

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 PPMISOTOPIES (0/00)

AL....	CR.....	MG...	9.5		
B....	F.....	NA...	3.6	SI02.	52.
HA....	FE+3...	NA+K.	185.		
HE....	FE(TOT).	NB...		SO4..	110.
CA....	HC03...	NO3..	124.		
CL....			16.		
			190.		

OTHER ANALYTICAL DATA... CAC03=104.

REFERENCE AND IDENTIFICATION

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

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

RECORD 00300

GEOTERM SAMPLE FILE

GEOTHERM FILE ID: 0018226

NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF WHITE WING RANCH (3)

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 05S 012W 16 SW OF SW NE LAT/LONG... 32-59.7 N 113-30.0 W

STATE..... ARIZONA

COUNTY..... YUMA

MAP REFERENCE..... AZTEC NW 1124000

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 PPMISOTOPIES (0/00)

AL....	CR.....	MG...	2.6		
B....	F.....	NA...	4.4	SI02.	43.
HA....	FE+3...	NA+K.	152.		
HE....	FE(TOT).	NH...		SO4..	81.

CA.... 14. HC03.... 125. NO3.. 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

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018225

NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF WHITE WING RANCH (2)
 LOCATION

COORDINATES

COUNTRY..... UNITED STATES 05S 012W 16 NW OF NE NE
 STATE..... ARIZONA
 COUNTY..... YUMA
 MAP REFERENCE..... AZTEC NW 1124000

LAT/LONG... 32-59.6 N 113-29.9 W

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

ISOTOPE (0/00)

AL....	CR.....	MG...	2.		
HA....	FE+3....	NA+K.	136.		
HE....	FE(TOT).	NB...		S04..	88.
CA.... 14.	HC03.... 117.	NO3..	12.		
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

RECORD 00302

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018204

NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF WHITE WING RANCH
 WELL/SPRING NUMBER..... 05S-12W-15-CAC

LOCATION

COORDINATES

COUNTRY..... UNITED STATES 05S 012W 15 SW OF NE SW
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... YUMA
 GEOLOGIC PROVINCE.. 04
 MAP REFERENCE..... AZTEC NW 1124000

LAT/LONG... 32-59.41 N 113-29.29 W

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

ISOTOPE (0/00)

AG....		CO3..... N		LI...	1.0		
AL....		CR.....		MG...	31.		
H.....	0.79	F.....	3.8	NA...	248.	SI02.	46.
HE....		FE(TOT)...		NB...		SO4..	144.
CA....	182.	HCO3....	118.	NO3..	91.		
CL....	587.						
CO....		K.....	10.				

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

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018195

NAME OF SAMPLE SOURCE... UNNAMED WELL NORTHEAST OF BARAGAN MT.

WELL/SPRING NUMBER..... 04S-11W-05-BBB

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 04S 011W 05 NW OF NW NW

LAT/LONG... 33-07.01 N 113-25.53 W

STATE..... ARIZONA

B&M GILA AND SALT RIVER

COUNTY..... YUMA

GEOLOGIC PROVINCE.. 04

MAP REFERENCE..... BARAGAN MTN. 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1964/08/00

TEMPERATURE (C)..... 39.

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

DISCHARGE..... 5299. L/MIN

MAJOR ANALYSIS

P..... 8.0

SPECIFIC CONDUCTANCE..... 896.

TOTAL DISSOLVED SOLIDS... 537.

CHARGE IMBALANCE (% DIFF)... 3.4

ANALYSIS IN MG/L

ISOTOPES (U/00)

AG....		CO3.....		LI...	0.44		
AL....		CR.....		MG...	1.2		
H.....	0.47	F.....	4.4	NA...	148.	SI02.	50.
HE....		FE(TOT)...		NB...		SO4..	86.
CA....	29.	HCO3....	108.	NO3..	13.		
CL....	146.						
CO....		K.....	5.3				

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

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0018211

NAME OF SAMPLE SOURCE... UNNAMED WELL NW OF HORN (1)

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 05S 012W 19 NE OF SW SW

LAT/LONG... 32-58.4 N 113-32.5 W

STATE..... ARIZONA

COUNTY..... YUMA

MAP REFERENCE..... HORN 1124000

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		
B.... 1.4	F..... 4.8	NA...	284.	SI02.	24.
BE....	FE(TOT)...	NB...		SO4..	215.
CA.... 35.	HCO3.... 90.	NO3..	6.8		
CL.... 302.					

ISOTOPES (0/00)

OTHER ANALYTICAL DATA... CaCO3=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

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0018231

NAME OF SAMPLE SOURCE... UNNAMED WELL SE OF WHITE WING RANCH (2)

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 05S 012W 35 NW OF NW NW LAT/LONG... 32-57.42 N 113-28.49 W

STATE..... ARIZONA

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

WATER ANALYSIS

SPECIFIC CONDUCTANCE..... 969.
 TOTAL DISSOLVED SOLIDS... 566.

ANALYSIS IN PPM

AL....	CR....	MG...	3.1		
B....	F..... 3.2	NA...		SI02.	39.
HA....	FE+3....	NA+K.	175.		
HE....	FE(TOT)...	NB...		SO4..	77.
CA.... 21.	HCO3.... 104.	NO3..	9.0		
CL.... 188.					

ISOTOPES (0/00)

OTHER ANALYTICAL DATA... CaCO3=65.

REFERENCE AND IDENTIFICATION

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

RECORD 00306

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0018205

NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTH OF BARAGAN MT.

WELL/SPRING NUMBER..... 05S-12W-16-AAB

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 05S 012W 16 NW OF NE NE LAT/LONG... 33-00.0 N 113-29.8 W

STATE..... ARIZONA B&M: 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

ISOTOPES (0/00)

ANALYSIS IN MG/L					
AG....		CO3.....	LI...	0.6	
AL....		CR.....	MG...	6.2	
H.....	0.46	F.....	NA...	178.	SI02. 45.
HE....		FE(TOT)...	NB...		S04.. 118.
CA....	45.	HCO3....	NO3..	41.	
CL....	194.				
CO....		K.....		6.6	

OTHER ANALYTICAL DATA... CaCO3=138.. SAR=6.6

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... WEIST, 1965

RECORD 00307

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTHEAST OF BARAGAN MT.
 WELL/SPRING NUMBER..... 04S-11W-21-ABB

GEO THERM FILE ID: 0018199

LOCATION

COUNTRY..... UNITED STATES 04S 011W 21 NW OF NW NE
 STATE..... ARIZONA B&M: GILA AND SALT RIVER
 COUNTY..... YUMA
 MAP REFERENCE..... BARAGAN MTN. 1124000

COORDINATES

LAT/LONG... 33-04.3 N 113-24.0 W

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.

ISOTOPES (0/00)

ANALYSIS IN MG/L					
AG....		CO3.....	LI...	0.4	
AL....		CR.....	MG...	0.6	
H.....	0.64	F.....	NA...	178.	SI02. 80.
HE....		FE(TOT)...	NB...		S04.. 90.
CA....	5.9	HCO3....	NO3..	9.9	
CL....	126.				

OTHER ANALYTICAL DATA... CaCO3=17.. SAR=19.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... WEIST, 1965

RECORD 00308

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0018209

NAME OF SAMPLE SOURCE... UNNAMED WELL SOUTHWEST OF AZTEC, ARIZONA
WELL/SPRING NUMBER..... 07S-12W-13-BHD

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 07S 012W 13 SE OF NW NW
STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... YUMA
MAP REFERENCE..... AZTEC HILLS 1124000

LAT/LONG... 32-49.3 N 113-27.1 W

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

ISOTOPES (0/00)

AG....	CO3.... N	LI...	1.5		
AL....	CR.....	MG...	9.0		
H.... 3.5	F..... 6.6	NA...	635.	SI02.	27.
HE....	FE(TOT)...	NH...		S04...	940.
CA.... 156.	HCO3.... 87.	NO3..	18.		
CL.... 550.					
CO.... N	K..... 5.8				

OTHER ANALYTICAL DATA... CaCO3=426., SAR=13.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
REFERENCE..... WEIST, 1965

RECORD 00309

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0018203

NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF AQUA CALIENTE MTS.
WELL/SPRING NUMBER..... 05S-11W-11-CAB

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 05S 011W 11 NW OF NE SW
STATE..... ARIZONA B&M: GILA AND SALT RIVER
COUNTY..... YUMA
MAP REFERENCE..... HYDER SE 1124000

LAT/LONG... 33-00.43 N 113-22.07 W

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 (0/00)

AG....		CO3.....	6.	LI...	0.44		
AL....		CR.....		MG...	N		
H....	0.76	F.....	4.5	NA...	196.	SI02.	44.
HE....		FE(TOT).		NB...		SO4..	110.
CA....	12.	HC03....	79.	N03..	8.7		
CL....	178.						

OTHER ANALYTICAL DATA... CA03=30., SAR=16.

REFERENCE AND IDENTIFICATION

COMPILER AFFILIATION... ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY
 REFERENCE..... WEIST, 1965

RECORD 00310

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0018036

NAME OF SAMPLE SOURCE... WARM WELL

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 10N 012W 02 SW OF NE

STATE..... ARIZONA

COUNTY..... YUMA

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

ANALYSIS IN PPM

AL....

CR.....

MG... 4.6

H....

F.....

NA... 71.

SI02. 12.

HE....

FE(TOT).

NB...

SO4.. 47.

CA.... 35.

HC03.... 130.

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

ISOTOPIES (0/00)

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 preceeding 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)	33-09.95 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		109-18.156W		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
MARICOPA	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		112-56.488W		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 BEND)	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	04	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 BEARDELY)	33-40.92 N 112-24.17 W	04N 001W	19	0018262	31.1
MARICOPA	UNNAMED WELL (NW OF BEARDELY)	33-40.92 N 112-24.17 W	04N 001W	19	0018261	31.1
MARICOPA	UNNAMED WELL (NW OF BEARDELY-2)	33-40.70 N 112-23.60 W	04N 001W	20	0018264	32.7
MARICOPA	UNNAMED WELL (NW OF BEARDELY-2)	33-40.70 N 112-23.60 W	04N 001W	20	0018263	32.7
MARICOPA	UNNAMED WELL (NW OF BEARDELY-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 MCMICKEN)	33-29.20 N 112-25.53 W	02N 002W	25	0018248	33.3
MARICOPA	UNNAMED WELL (SE OF MCMICKEN)	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 MCMICKEN)	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)	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-2)	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-3)	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	0018272	31.1
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 MCMICKEN)	33-28.75 N 112-27.62 W	02N 002W	27	0018250	30.6
MARICOPA	UNNAMED WELL (SW OF MCMICKEN)	33-28.75 N 112-27.62 W	02N 002W	27	0018249	30.6
MARICOPA	UNNAMED WELL (SW OF MCMICKEN-2)	33-28.72 N 112-25.55 W	02N 002W	36	0018251	32.2
MARICOPA	UNNAMED WELL (SW OF MADDELL)	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 CENTENNIAL FARMS (2/2)	33-27.1 N 113-14.0 W	01N 010W	01	0018162	36.
MARICOPA	UNNAMED WELL NEAR CENTENNIAL 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 NORTHEAST 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

MARICOPA	UNNAMED WELL SE OF DENDORA RANCH (2)	33-01.9	N	113-03.2	W	04S	008W	35	0018216	30.3
MARICOPA	UNNAMED WELL SOUTH OF AGUA CALIENTE MTS.	32-59.1	N	113-19.4	W	05S	010W	19	0018100	39.
MARICOPA	UNNAMED WELL SOUTH OF AGUA CALIENTE MTNS. (2)	32-59.15	N	113-19.40	W	05S	010W	19	0018222	37.2
MARICOPA	UNNAMED WELL SOUTH OF BURNT MT.	33-30.92	N	113-06.04	W	02N	008W	17	0018163	31.
MARICOPA	UNNAMED WELL SOUTH OF OATMAN MT.	33-00.41	N	113-08.32	W	05S	009W	12	0018200	32.2
MARICOPA	UNNAMED WELL SOUTH OF OATMAN MTN	33-00.41	N	113-08.22	W	05S	009W	12	0018221	32.8
MARICOPA	UNNAMED WELL SOUTH OF SADDLE MT.	33-21.80	N	113-08.49	W	01S	009W	01	0018174	33.
MARICOPA	UNNAMED WELL WEST OF BURNT MT. (1/5)	33-32.23	N	113-11.24	W	02N	009W	10	0018166	34.
MARICOPA	UNNAMED WELL WEST OF BURNT MT. (2/5)	33-31.81	N	113-11.25	W	02N	009W	09	0018167	33.
MARICOPA	UNNAMED WELL WEST OF BURNT MT. (2/5)	33-31.81	N	113-11.25	W	02N	009W	09	0018168	34.
MARICOPA	UNNAMED WELL WEST OF BURNT MT. (3/5)	33-32.20	N	113-10.19	W	02N	009W	10	0018169	33.
MARICOPA	UNNAMED WELL WEST OF BURNT MT. (4/5)	33-32.21	N	113-10.69	W	02N	009W	10	0018170	33.
MARICOPA	UNNAMED WELL WEST OF SADDLE MT. (02/10)	33-26.54	N	113-07.57	W	01N	008W	07	0018152	41.
MARICOPA	UNNAMED WELL WEST OF SADDLE MT. (03/10)	33-24.85	N	113-07.535W	01N	008W	19	0018153	30.	
MARICOPA	UNNAMED WELL WEST OF SADDLE MT. (04/10)	33-27.86	N	113-08.60	W	01N	009W	01	0018154	33.
MARICOPA	UNNAMED WELL WEST OF SADDLE MT. (05/10)	33-27.03	N	113-13.78	W	01N	009W	06	0018155	34.
MARICOPA	UNNAMED WELL WEST OF SADDLE MT. (06/10)	33-26.15	N	113-13.28	W	01N	009W	07	0018156	34.
MARICOPA	UNNAMED WELL WEST OF SADDLE MT. (07/10)	33-25.972N	113-09.618W	01N	009W	14	0018157	30.		
MARICOPA	UNNAMED WELL WEST OF SADDLE MT. (08/10)	33-25.66	N	113-12.76	W	01N	009W	17	0018158	36.
MARICOPA	UNNAMED WELL WEST OF SADDLE MT. (09/10)	33-25.22	N	113-12.76	W	01N	009W	20	0018159	32.
MARICOPA	UNNAMED WELL WEST OF SADDLE MT. (10/10)	33-23.55	N	113-11.554W	01N	009W	28	0018160	31.	
MARICOPA	UNNAMED WELL WEST OF SADDLE MTN. (1)	33-27.8	N	113-06.6	W	01N	008W	06	0018151	32.
MARICOPA	UNNAMED WELL-SW OF LUKE AIR FORCE BASE	33-30.03	N	112-25.52	W	02N	002W	24	0018245	31.7
MARICOPA	UNNAMED WELL-SW OF LUKE AIR FORCE BASE	33-30.03	N	112-25.52	W	02N	002W	24	0018244	31.7
MARICOPA	UNNAMED WELL-WEST OF GLENDALE	33-32.18	N	112-13.22	W	02N	001E	02	0018233	30.
MARICOPA	UNNAMED WELL-WEST OF GLENDALE	33-32.18	N	112-13.22	W	02N	001E	02	0018232	30.
MARICOPA	WARM SPRINGS (NORTH OF SIGNAL MTN.)	33-13.2	N	112-57.2	W	02S	007W	27	0018037	35.2
MARICOPA	WELL IRRIGATION (SOUTH OF CHANDLER)	33-17.4	N	111-49.342W	02S	005E	02	0018026	33.9	
MOHAVE	ANDERSON HOT WELL	34-40.8	N	113-58.2	W				0000220	44.5
MOHAVE	BLAKE WELL	35-10.8	N	113-42.6	W				0000095	29.
MOHAVE	CALICHE SPRINGS	34-58.2	N	114-16.2	W				0000093	26.
MOHAVE	COFER HOT SPRING	34-41.73	N	113-34.39	W	16N	013W	25	0018075	32.0
MOHAVE	DUVAL WELL 4-C	35-10.8	N	114-16.8	W				0000092	36.
MOHAVE	DUVAL WELL 5-E	35-10.2	N	114-16.8	W				0000214	37.
MOHAVE	HOT SPRING	35-57.6	N	114-43.5	W	30N	023W	26,	0001496	30.
MOHAVE	KAISER HOT SPRINGS	34-36.0	N	113-33.0	W				0000218	37.
MOHAVE	OATMAN WARM SPRINGS	34-53.8	N	114-18.5	W				0001484	33.
MOHAVE	PAKOON SPRINGS	36-24.9	N	113-57.4	W	35N	016W	24	0018044	28.0
MOHAVE	PAKOON SPRINGS	36-24.8	N	113-57.4	W	35N	016W	24	0002948	30.0
MOHAVE	PUMPED WELL (A)	34-45.80	N	114-20.55	W	16N	019W	03	0018058	28.3
MOHAVE	PUMPED WELL (EAST OF BLACK MTS.)	34-52.9	N	114-08.6	W	17N	018W	01	0018056	32.2
MOHAVE	PUMPED WELL (SE OF BLACK MTS.)	34-48.8	N	114-08.9	W	17N	018W	36	0018057	29.4
MOHAVE	WARM SPRING (EAST OF HUALAPAI INDIAN RESERVATION)	34-55.00	N	113-36.60	W	18N	013W	25	0018055	28.3
MOHAVE	WARM SPRING NO. 1	34-54.6	N	114-21.0	W				0000094	33.
MOHAVE	WARM SPRING NO. 2	34-54.6	N	114-21.0	W				0000216	27.
MOHAVE	WELL INDUSTRIAL USE	35-10.5	N	114-13.1	W	21N	018W	20	0018025	37.2
MOHAVE	WELL INDUSTRIAL USE	35-11.0	N	114-14.7	W	21N	018W	30	0018024	37.2
MOHAVE	ONE MILE SPRING	36-00.0	N	114-44.3	W	30N	023W	10	0015735	64.
PIMA	AGUA CALIENTE SPRING	32-16.87	N	110-43.72	W	13S	016E	20	0018079	30.4
PIMA	MERCER SPRING	32-20.2	N	110-42.5	W				0001487	25.
PIMA	MONKEY SPRING	31-38.03	N	110-42.22	W	21S	016E	03	0018051	28.3
PIMA	QUITOBAQUITO SPRINGS	31-56.6	N	113-01.0	W				0002949	23.0
PIMA	UNNAMED WELL IN AURA VALLEY (1/2)					14S	011E	33	0018178	30.5
PIMA	UNNAMED WELL IN AURA VALLEY (2/2)					14S	010E	25	0018177	32.2

PIMA	UNNAMED WELL IN TUCSON AREA (01/11)	16S 015E	30	0018189	31.5
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
PIMA	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
PIMA	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.
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	30.7
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
PINAL	HOT PUMPED WELL (EAST OF COOLIDGE)	32-59.30 N 111-34.50 W 05S 007E	13	0018061	41.1
PINAL	HOT PUMPED WELL (NORTH OF ELEVEN MILE CORNER-2)	32-54.13 N 111-34.08 W 06S 007E	13	0018066	61.0
PINAL	HOT PUMPED WELL (NORTH OF ELEVEN MILE CORNER)	32-53.67 N 111-33.50 W 06S 008E	18	0018065	30.0
PINAL	HOT PUMPED WELL (SOUTH OF COOLIDGE)	32-57.58 N 111-32.00 W 05S 008E	28	0018063	56.8
PINAL	HOT PUMPED WELL (SOUTH OF COOLIDGE)	32-56.73 N 111-35.40 W 05S 007E	36	0018062	55.6
PINAL	HOT PUMPED WELL (1)	32-50.2 N 111-35.0 W 04S 007E	01	0018064	49.5
PINAL	IRRIGATION WELL 1481	32-45. N 111-42. W		0015703	32.
PINAL	WELL (EAST OF PICHACHO MTS.)	32-44.1 N 111-27.1 W 08S 009E	07	0018003	34.4
PINAL	WELL DOMESTIC	06S 006E	08	0018007	46.1
PINAL	WELL IRRIGATION	32-59.33 N 111-34.53 W 06S 007E	13	0018006	61.7
PINAL	WELL IRRIGATION	03S 006E	17	0018010	31.7
PINAL	WELL IRRIGATION	05S 004E	14	0018009	32.8
PINAL	WELL IRRIGATION	03S 006E	05	0018016	32.2
PINAL	WELL IRRIGATION	03S 006E	05	0018015	30.6
PINAL	WELL IRRIGATION	03S 006E	05	0018014	33.3
PINAL	WELL IRRIGATION	03S 006E	06	0018013	30.6
PINAL	WELL IRRIGATION	03S 006E	06	0018012	30.6
PINAL	WELL IRRIGATION	03S 006E	06	0018011	29.4
PINAL	WELL IRRIGATION	32-58.2 N 111-36.7 W 05S 007E	23	0018008	46.1
PINAL	WELL IRRIGATION (EAST OF LOOKOUT MTN.)	32-50.61 N 110-41.53 W 07S 016E	10	0018005	34.4
PINAL	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	45.5
YAVAPAI	CHUCK'S WELL	33-58.25 N 112-21.40 W 07N 001W	03	0000190	22.3
YAVAPAI	DODD WELL	33-59.8 N 112-22.5 W 08N 001W	33	0000188	26.3
YAVAPAI	DRIPPING SPRING	33-57.28 N 112-20.06 W 07N 001W	14	0000197	24.6

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	PUMPED WELL (NE OF SALOME)	33-48.27 N 113-34.28 W 05N 013W	01	0018054	31.1
YUMA	RADIUM SPRINGS WELL	32-44.4 N 114-04.2 W 08S 018W	12	0018047	G 50.
YUMA	UNNAMED WELL EAST OF AQUA CALIENTE MTNS.	33-07.00 N 113-20.40 W 05S 011W	12	0018224	31.1
YUMA	UNNAMED WELL EAST OF AZTEC HILLS	32-46.96 N 113-22.71 W 07S 011W	27	0018208	32.
YUMA	UNNAMED WELL EAST OF BARAGAN MT.	33-05.27 N 113-24.49 W 04S 011W	16	0018198	30.
YUMA	UNNAMED WELL EAST OF PALOMAS MTNS.	33-00.00 N 113-30.55 W 05S 012W	16	0018227	37.2
YUMA	UNNAMED WELL EAST OF PALOMAS MT.	32-59.15 N 113-30.52 W 05S 012W	21	0018206	44.
YUMA	UNNAMED WELL EAST OF WHITE WING RANCH (1)	32-58.7 N 113-27.0 W 05S 012W	24	0018212	32.2
YUMA	UNNAMED WELL EAST OF WHITE WING RANCH (2)	32-58.2 N 113-29.6 W 05S 012W	28	0018230	33.9
YUMA	UNNAMED WELL IN MCMULLEN VALLEY	33-51.45 N 113-27.21 W 12N 006W	13	0018192	36.
YUMA	UNNAMED WELL IN MCMULLEN VALLEY	33-51.45 N 113-27.21 W 12N 006W	13	0018191	37.
YUMA	UNNAMED WELL IN MCMULLEN VALLEY	33-51.45 N 113-27.21 W 12N 006W	13	0018190	37.
YUMA	UNNAMED WELL NE OF BARAGAN MTNS.	33-07.00 N 113-25.53 W 04S 011W	05	0018219	44.4
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 MTNS. (6)	33-06.15 N 113-20.37 W 04S 010W	07	0018218	33.9
YUMA	UNNAMED WELL NORTH OF AGUA CALIENTE MTNS. (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 AGUA 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	HOOKERS HOT SPRINGS	0015694	52.
COCHISE	13S	021E	06	HOOKERS HOT SPRINGS	0002939	51.5
COCHISE	13S	021E	06	HOOKER'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 TUCSON AREA (10/11)	PIMA	0018180	30.8
		UNNAMED WELL IN TUCSON 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
32-58.40 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 LUCATS 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 CHUCU)	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 THERA)	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 AGUA 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 AGUA 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.

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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

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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 MENUDO 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.)	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 WINDHILL 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 HUDSON 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 AQUA CALIENTE MTNS.	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 MTNS.	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 MTNS.	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 MTNS. (6)	YUMA	0018218	33.9
33-07.00 N 113-20.40 W	UNNAMED WELL NORTH OF AGUA CALIENTE MTNS. (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	YAVAPAI	0001482	37.
34-59.13	N 111-21.5	W VERDE HOT SPRINGS	YAVAPAI	0002950	36.0
34-21.32	N 111-42.53	W VERDE HOT SPRINGS	YAVAPAI	0018076	40.0
34-21.3	N 111-42.5	W WELL AT VERDE HOT SPRINGS	YAVAPAI	0018176	39.4

PRESCOTT 1:250,000

34-59.13	N 112-21.5	W CASTLE HOT SPRINGS	YAVAPAI	0002951	46.0
34-59.13	N 112-21.58	W CASTLE HOT SPRINGS	YAVAPAI	0018902	45.5
34-40.8	N 113-58.2	W ANDERSON HOT WELL	MOHAVE	0000220	44.5
34-41.73	N 113-34.39	W COFER HOT SPRING	MOHAVE	0018075	32.0
34-36.0	N 113-33.0	W KAISER HOT SPRINGS	MOHAVE	0000218	37.
34-55.00	N 113-36.60	W WARM SPRING (EAST OF HUALAPAI INDIAN RESERVATIO	MOHAVE	0018055	28.3

NEEDLES 1:250,000

34-58.2	N 114-16.2	W CALICHE SPRINGS	MOHAVE	0000093	26.
34-53.8	N 114-18.5	W OATMAN WARM SPRINGS	MOHAVE	0001484	33.
34-45.80	N 114-20.55	W PUMPED WELL (A)	MOHAVE	0018058	28.3
34-52.9	N 114-08.6	W PUMPED WELL (EAST OF BLACK MTS.)	MOHAVE	0018056	32.2
34-48.8	N 114-08.9	W PUMPED WELL (SE OF BLACK MTS.)	MOHAVE	0018057	29.4
34-54.6	N 114-21.0	W WARM SPRING NO. 1	MOHAVE	0000094	33.
34-54.6	N 114-21.0	W WARM SPRING NO. 2	MOHAVE	0000216	27.

WILLIAMS 1:250,000

35-10.2	N 112-49.2	W BEVERLY WELL	COCONINO	0000211	32.
35-10.8	N 113-42.6	W BLAKE WELL	MOHAVE	0000095	29.
35-02.4	N 113-09.6	W TROUT CREEK SPRING	YAVAPAI	0000212	27.

KINGMAN 1:250,000

35-10.8	N 114-16.8	W DUVAL WELL 4-C	MOHAVE	0000092	36.
35-10.2	N 114-16.8	W DUVAL WELL 5-E	MOHAVE	0000214	37.
35-57.6	N 114-43.5	W HOT SPRING	MOHAVE	0001496	30.
35-10.5	N 114-13.1	W WELL INDUSTRIAL USE	MOHAVE	0018025	37.2
35-11.0	N 114-14.7	W WELL INDUSTRIAL USE	MOHAVE	0018024	37.2

GRAND CANYON 1:250,000

36-24.9	N 113-57.4	W PAKOON SPRINGS	MOHAVE	0018044	28.0
36-24.8	N 113-57.4	W PAKOON SPRINGS	MOHAVE	0002948	30.0

LAS VEGAS 1:250,000

36-00.0	N 114-44.3	W ONE MILE SPRING	MOHAVE	0015735	64.
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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.