

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

NEW MEXICO

Basic data for thermal springs and wells
as recorded in GEOTHERM

By
James D. Bliss

Open-File Report 83-434

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

Menlo Park, California

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INTRODUCTION

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

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

GEO THERM INDEXES

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

Appendix A (p. 152-156) is sorted by the county name and the name of the source. Also given are latitude, longitude (both in decimal minutes), township, range, section, GEO THERM record identifier, and temperature ($^{\circ}\text{C}$). 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. 157-161) is sorted by county, township, range, and section. Also given are name of source, GEOTHERM record identifier, and temperature (°C). Records missing items used for sorting will be listed first.

Appendix C (p. 162-167) is first sorted into one-degree blocks by latitude, and longitude, and then by name of source. Adjacent one-degree blocks which are published as a 1:250,000 map are combined under the appropriate map name. Also given are GEOTHERM record identifier, and temperature (°C). Records missing items used for sorting will be listed first. Numbers with a blank in the same position as zero will be given first.

GEOTHERM SAMPLE FILE

GEOTHERM sample file contains 251 records for New Mexico (Table 1). Records may be present which are duplicates. A record may contain data on location, sample description, analysis type (water, condensate, or gas), collection condition, flow rates, and the chemical and physical properties of the fluid. Stable and radioactive isotopic data are occasionally available. Some records may contain only location and temperature. When sufficient chemical data was available, the charge balance (percentage of difference in anion- and cation-milliequivalents) was computed and added to the record. Many of the numeric fields in the sample file can be directly qualified. The qualifier code precedes the number when appropriate. The codes and their meaning are given in Table 1.

Each thermal spring or well 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 New Mexico available as of December, 1981. However, no claim is made for completeness, and published sources have probably been missed. About 2% 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.

GEOTERM BIBLIOGRAPHY

A bibliography is given in Appendix D (p. 168-170). The abbreviated form of the reference (called code) is identified as the record source in the full record list and is used to sort the entries in this appendix. Codes with a leading "*" identify records based on information which was unpublished at the time the record was prepared. Codes with a trailing "*" in the full GEOTHERM record are also described in greater detail in Appendix D and are listed ahead of published sources.

ACKNOWLEDGMENTS

Contributions and support to GEOTHERM have been made by many in both federal and state agencies. This includes the U.S. Department of Energy (and associated contractors), and U.S. National Oceanic and Atmospheric Administration. Data-entry forms for most sites in New Mexico were prepared by the staff of 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 New Mexico: computer-generated listing of records describing geothermal-fluid samples. [A few records may be for cold springs or wells--this was to provide ground-water references for some studies.]

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

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

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

L = less than

G = greater than

E = estimated

T = trace (no numeric value reported)

N = not detected (not followed by number)

Q = qualified (other data in qualification field)

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

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

RECORD 00001
GEOTHERM FILE ID: 0001818

COORDINATES
LAT/LONG... 34-59.70 N 106-27.24 W

TOWNSHIP=RANGE

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... CLEAR WATER SPRING

LOCATION
COUNTRY... UNITED STATES

STATE... NEW MEXICO

COUNTY... HERNANDO

GEOLOGIC PROVINCE... 26

MAP REFERENCE... MOUNT WASHINGTON 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)... 21.

REFERENCE / TO IDENTIFICATION

COMPILED BY... MARINER, R. & BROOK, C.

REFERENCE... HERRY AND OTHERS, 1980

RECORD 00002
GEOTHERM FILE ID: 0001815

COORDINATES
LAT/LONG... 33-53.88 N 108-30.06 W

TOWNSHIP=RANGE

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

LOCATION
COUNTRY... UNITED STATES

STATE... NEW MEXICO

COUNTY... CATRON

GEOLOGIC PROVINCE... 25

MAP REFERENCE... ARAGON 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)... 21.

REFERENCE AND IDENTIFICATION

COMPILED BY... MARINER, R. & BROOK, C.

REFERENCE... HERRY AND OTHERS, 1980

RECORD 00003
GEOTHERM FILE ID: 0001615

COORDINATES
LAT/LONG... 33-42.5 N 109-01.5 W

TOWNSHIP=RANGE

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... FREIBORN CANYON SPRING

LOCATION
COUNTRY... UNITED STATES

STATE... NEW MEXICO

COUNTY... CATRON

GEOLOGIC PROVINCE... 25

MAP REFERENCE... BLUE 1:62500

OTHER LOCALITY INFORMATION: SPRING IS 5 TO 10 FT ABOVE THE FLOOR OF "FREIBORN CANYON".

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1966/02/16

TEMPERATURE (C)... 33.3

DISCHARGE... 35.6 L/MIN

POTENTIAL LITHOLOGY... SPRING DISCHARGES FROM APPARENT BEDDING PLANES IN A VOLCANIC CONGLOMERATE OF THE "DATIC

FORMATION.

WATER ANALYSIS

P... 8.44

SPECIFIC CONDUCTANCE... 150.

TOTAL DISSOLVED SOLIDS... 151.

ANALYSIS IN PP4

AG..... 0.2 13. LI... N 0.17
 AL..... CP..... MG... 0.053
 AS..... 0.004 SE... N 31.
 AU..... CU..... MU...
 BA..... 0.012 1.3 NA... 39.
 BE..... FE(TOT) 0.025
 BR..... N
 CA..... 7. HCU3... 37. PU4... 0.006
 CD..... H2S...
 CE..... 7.4 I..... N
 CO..... K..... 0.2

OTHER ANALYTICAL DATA... NO2 = 0.072 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... HOOK, C.A.

COPYRIGHT AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... SUMMERS, 1976

----- RECORD 00004 -----
 GEOTHERM FILE 101 0002952

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... GILA NATIONAL FOREST - UNNAMED HOT SPRING

WELL/SPRING NUMBER..... 125-14W-24-441

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... CATRON

GEOLOGIC PROVINCE... 25

MAP REFERENCE..... GILA HOT SPRINGS 1:24000

OTHER LOCALITY INFORMATION: SPRING IN ALLUVIUM ON EAST SIDE OF RIVER AT WILDERNESS BOUNDARY.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 66.0

PERTINENT LITHOLOGY..... TUFF-BRECCIA BEDROCK, ALLUVIUM.

OTHER SAMPLE INFORMATION... SPURDADIC GAS.

WATER ANALYSIS

PH..... 7.78

ALKALINITY..... 135. AS HCU3

TOTAL DISSOLVED SOLIDS... 587.

CHARGE BALANCE (% DIFF)... 0.6

ANALYSIS IN MG/L

AG..... CO3.....

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

AS..... CS..... L 0.1

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

BA..... F..... 9.5

BE..... FE(TOT) L 0.02

BR..... GE.....

CA..... HCU3... 135.

CL..... K..... 3.1

CO.....

REFERENCE AND IDENTIFICATION

COMPILED BY..... TESHIN, VICTOR

COPYRIGHT AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... MARTINEZ AND OTHERS, 1977A

COORDINATES

LAT/LONG... 33-14.00 N 108-14.08 W

UTM ZONE... +12

NORTHING... 3680376.

757814.

ISOTOPES 10/2001

DEL D OF WATER..... -83.6

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

LI... S....

MG... SB...

NN... L 0.02

NA... 150. SI02. 85.

NB... S04.. 79.

NI... L 0.02

KA... 0.03 ZN... L 0.01

RECORD 00005

GEOTHERM FILE ID: 0001671

GEOTHERMAL SAMPLE-FILE

NAME OF SAMPLE SOURCE... JERRY WELL
LOCATIONCOUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... CATRON

GEOLOGIC PROVINCE.. 28

MAP REFERENCE..... LAKE ARRIJO 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1979/07

TEMPERATURE (C)..... 24.

DISCHARGE..... 21. L/MIN

WATER ANALYSIS

P..... 8.5

CHARGE BALANCE (% DIFF).... 7.9

ANALYSIS IN PPM

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

AS..... MG.... 0.1

R..... 0.47 CS..... 0.002

NA..... 1.6 F..... 190.

SI..... 12.

FE..... 51.

CA..... 504..

CL..... 51.

CO.....

K..... 0.9

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.

COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... LEVITE AND GAMBILL, 1980

ISOLINES 107001

RECORD 00006

GEOTHERM FILE ID: 0001662

GEOTHERMAL SAMPLE-FILE

NAME OF SAMPLE SOURCE... MIDDLE FORK GILA RIVER - TEST WELL 1

WELL/SPRINGS NUMBER..... 125-13W-30-231

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... CATRON

GEOLOGIC PROVINCE.. 25

MAP REFERENCE..... GILA HOT SPRINGS 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1964/07/31

TEMPERATURE (C)..... 32.2

FLU DEPTH (M)..... 182.9

DISCHARGE.....

PROFITING LITHOLOGY..... QUATERNARY BASALT.

OTHER SAMPLE INFORMATION.. WELL DRILLED JULY 1964; WATER LEVEL APPROXIMATELY -70 FT (BELOW GROUND SURFACE) AT

COMPLETION; THE HOLE WAS ABANDONED.

WATER ANALYSIS

P..... 8.7

SPECIFIC CONDUCTANCE..... 2710.

TOTAL DISSOLVED SOLIDS... 2420.

CHARGE BALANCE (% DIFF).... 1.8

ISOLINES

LAT/LONG... 33-13.8 N 108-14.4 W

ISOTOPES 10/001

ANALYSIS IN PPM
 AG.....
 AL.....
 AR.....
 AS.....
 BA.....
 BR.....
 CA.....
 CL.....
 CO.....
 CR.....
 CU.....
 FE.....
 HI.....
 IN.....
 IR.....
 KI.....
 LI.....
 MG.....
 NA.....
 NI.....
 NO.....
 OX.....
 RE.....
 SE.....
 SI.....
 SO.....
 TH.....
 TI.....
 TR.....
 UR.....
 VA.....
 VU.....
 WE.....
 ZN.....

REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

RECORD 00007

GEOTHERM FILE 10: 0001666

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... MIDDLE FORK GILA RIVER - UNNAMED SEEP
 WELL/SPRING NUMBER..... 11S-14W-35-400

COORDINATES

LAT/LONG... 33-17.1 N 108-15.6 W

TOWNSHIP-RANGE

11S 014W 35 SE
 B&M: NEW MEXICO PRINCIPAL

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... CATRON
 GEOLOGIC PROVINCE... 25

MAP REFERENCE..... WOODLAND PARK 1:24000

OTHER LOCALITY INFORMATION: ABOUT 1/3 MILE UPSTREAM FROM "JORDAN CANYON" ON THE SOUTH SIDE OF THE "MIDDLE FORK GILA RIVER" IN THE "GILA WILDERNESS".

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1966/02/26

TEMPERATURE (C)..... 27.2

DISCHARGE..... 3.8 L/MIN

PERMITTING LITHOLOGY..... THE WATER DISCHARGES FROM HORIZONTAL FRACTURES IN RHYOLITE ABOUT A FOOT ABOVE THE VALLEY

FILL ALLUVIUM.
 OTHER SAMPLE INFORMATION.. THE DISCHARGE SEEPS INTO ALLUVIUM OR EVAPORATES WITHNO RUNOFF; AIR TEMP = 32F; SNOW IN

IMMEDIATE AREA WAS MELTED.

WATER ANALYSIS

ISOTOPES 10/001

ANALYSIS IN PPM
 AG.....
 AL.....
 AR.....
 AS.....
 BA.....
 BR.....
 CA.....
 CL.....
 CO.....
 CR.....
 CU.....
 FE.....
 HI.....
 IN.....
 IR.....
 KI.....
 LI.....
 MG.....
 NA.....
 NI.....
 NO.....
 OX.....
 RE.....
 SE.....
 SI.....
 SO.....
 TH.....
 TI.....
 TR.....
 UR.....
 VA.....
 VU.....
 WE.....
 ZN.....

REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

RECORD 00008

GEOTHERM FILE 10: 0001663

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... MIDDLE FORK GILA RIVER - UNNAMED SPRING
 WELL/SPRING NUMBER..... 12S-13W-07-430

COORDINATES

LAT/LONG... 33-15.5 N 108-13.4 W

TOWNSHIP-RANGE

12S 013W 07 SE OF SW

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO
COUNTRY..... CALIFORNIA
GEOLOGIC PROVINCE... 25
MAP REFERENCE..... BURNT CORRAL CANYON 1124000
OTHER LOCALITY INFORMATION: 3 MILES DOWNSTREAM FROM "LITTLE BEAR CANYON"; THE WATER DISCHARGES FROM MULTIPLE
.....OUTLETS ON THE EAST SIDE OF A LITTLE CANYON ON THE NORTHEAST SIDE OF THE RIVER.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1966/02/26
POINT OF COLLECTION.. FLUME
TEMPERATURE (C)..... 21.9
DISCHARGE..... 204.4 L/MIN
PARTICULATE LITHOLOGY..... BASALT AND BASALTIC ANDESITE OF QUATERNARY AGE THAT CONTAIN THIN BEDS OF RHYOLITE TUFF.
OTHER SAMPLE INFORMATION.. WATER DISCHARGES FROM BOTTOM OF A TALUS SLOPE COMPOSED OF BLOCKS OF BASALT, RHYOLITE,
RHYOLITE BRECCIA, AND RHYOLITE TUFF.

SYSTEM ANALYSIS

| ANALYSIS IN PPM | | H.5 | |
|---|------------|---------|------|
| SPECIFIC CONDUCTANCE..... | | 200. | |
| AG..... | CO3..... N | LI..... | 0.1 |
| AL..... | CR..... | MG..... | 0.86 |
| AS..... | CS..... | MN..... | 0.34 |
| AV..... | CU..... | NI..... | |
| AW..... N | F..... 3.6 | NA..... | 42. |
| BP..... | 9.29 | | |
| CA..... | 13. | | |
| CD..... | 9.6 | | |
| CL..... | 0.012 | | |
| CO..... | K..... N | | |
| HC03..... | 90. | | |
| H2S..... | | PO4.. | N |
| NO2 = 0.0082 PPM. | | | |
| OTHER ANALYTICAL DATA..... | | | |
| REFERENCE AND IDENTIFICATION | | | |
| COMPILED BY..... BROOK, C.A. | | | |
| REFERENCE AFFILIATION..... U.S. GEOLOGICAL SURVEY | | | |
| REFERENCE..... SUMMERS, 1976 | | | |

GEOTHERM4 SAMPLE-FILE

GEOTHERMAL SAMPLE FILE
 NAME OF SAMPLE SOURCE... MIDDLE FORK GILA RIVER - UNNAMED SPRING
 WELL/SPRING NUMBER..... 125-13W-07-340
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... CATRON
 GEOLOGIC PROVINCE.. 25
 MAP REFERENCE..... BURNT CORRAL CANYON 1:24000
 OTHER LOCALITY INFORMATION: 3 MILES DOWNSTREAM FROM "LITTLE BEAR CANYON" THE WATER DISCHARGES FROM MULTIPLE
 SAMPLE DESCRIPTION AND COMMENTS
 DATE/COLLECTOR..... 1966/02/26
 POINT OF COLLECTION.. CASCADE
 TEMPERATURE (C)..... 34.4
 DISCHARGE.....
 PERMIT LITNOLOGY..... BASALT AND BASALTIC ANDESITE OF QUATERNARY AGE THAT CONTAIN THIN BEDS OF RHYOLITE TUFF.
 OTHER SAMPLE INFORMATION.. WATER DISCHARGES FROM BOTTOM OF A TALUS SLOPE MADE UP OF BLOCKS OF BASALT, RHYOLITE,
 RHYOLITE BRECCIA, AND RHYOLITE TUFF.
 WATER ANALYSIS

P..... 7.4
 SPECIFIC CONDUCTANCE..... 200.
 ANALYSIS IN PPM
 AG..... CO3..... LI.... 0.1
 AL..... CR..... MG.... 0.84
 AR..... F..... NA.... 39.
 RE..... FE(TOT). N S102. 79.
 CA..... 16.4
 CO..... K..... 1.6
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... PUEBLO WINDMILL
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... CATRON
 GEOLOGIC PROVINCE.. 28
 MAP REFERENCE..... MORENO HILL 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1979/08
 TEMPERATURE (C)..... 33.8
 DISCHARGE.....
 WATER ANALYSIS
 PH..... 6.0
 CHARGE BALANCE (% DIFF)... 14.8
 ANALYSIS IN PPM
 AL..... CR..... 29.
 AS..... CS..... 0.1
 BA..... F..... 140.
 CA..... FE(TOT). 14.
 CL..... HCO3..... 110.
 CO..... K..... 13.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEVITTE AND GAMBILL, 1980

GEOTHERM FILE ID: 0001670
 COORDINATES
 LAT/LONG... 34-32.40 N 108-46.63 W

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... SAN FRANCISCO HOT SPRINGS (LOWER FRISCO HOT SPRINGS)
 WELL/SPRING NUMBER..... 125-20W-23-321
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... CATRON
 GEOLOGIC PROVINCE.. BASIN-AND-RANGE
 MAP REFERENCE..... WILSON MOUNTAIN 1:24000
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEVITTE AND GAMBILL, 1980

GEOTHERM FILE ID: 0000675
 COORDINATES
 LAT/LONG... 33-14.68 N 108-52.87 W
 UTM ZONE... +12
 NORTHING... 3681002.
 706511.

OTHER LOCALITY INFORMATION: SMALL SPRINGS AND SEEPS SCATTERED FOR 2 KM ALONG THE SAN FRANCISCO RIVER.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 37.0

DISCHARGE..... 50. L/MIN

OTHER SAMPLE INFORMATION.. SMALL SPRINGS AND SEEPS.

WATER ANALYSIS

PH..... 7.35

ALKALINITY..... 121. AS HCO3

TOTAL DISSOLVED SOLIDS... 1015.

CHARGE IMBALANCE (% DIFF)... 0.0

ANALYSIS IN MG/L

| | | | | | |
|---------|------------|--------|--------|--------|--------|
| AG..... | CO3..... | LI.... | 0.43 | S.... | |
| AL..... | CR..... | MG.... | 6.2 | SB.... | |
| AS..... | CS..... | MN.... | 0.03 | | |
| AU..... | CU..... | NA.... | 270. | SI02. | 84. |
| BA..... | F..... | NB.... | | SO4.. | 39. |
| BR..... | FE(TOT). L | NI.... | L 0.02 | | |
| HR..... | GE..... | | | | |
| CA..... | HC03.... | | 121. | | |
| CL..... | | | | | |
| CO..... | K..... | RB.... | 0.08 | ZN.... | L 0.01 |

ISOLOPES 10/001

DEL D OF WATER..... -78.6
DEL O (18) OF WATER... -10.44

REFERENCE AND IDENTIFICATION

COMPILED BY..... TESHIN, VICTOR

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

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

RECORD 00012

GEOOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... THE MEADOWS (WARM SPRING)

WELL/SPRING NUMBER..... 11S-144-30-100

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... CATRON

GEOLOGIC PROVINCE.. 25

MAP REFERENCE.....

OTHER LOCALITY INFORMATION: UPPER "GILA RIVER BASIN".

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1969/11/12

TEMPERATURE (C)..... 30.

DISCHARGE..... 76.5 L/MIN

PARENT LITHOLOGY..... ALLUVIUM OVER INTRUSIVE RHYOLITIC BEDROCK.

OTHER SAMPLE INFORMATION.. THERMAL WATERS DISCHARGE FROM DISCRETE POINTS AND FROM A BOG IN AN AREA 200 FT WIDE BY

WATER ANALYSIS

PH..... 7.5

SPECIFIC CONDUCTANCE..... 220.

CHARGE IMBALANCE (% DIFF)... 4.5

ANALYSIS IN PPM

| | | | | | |
|---------|-----------|-----|---------|-----|-------|
| AG..... | CO3..... | N | MG.... | 1.8 | |
| AL..... | CR..... | | MIN.... | N | |
| AS..... | CS..... | | NA.... | 24. | SI02. |
| BA..... | F..... | | NB.... | | SO4.. |
| BR..... | FE(TOT).. | 3.4 | | | 21. |
| HR..... | GE..... | 1. | | | 5.5 |
| CA..... | HC03.... | 90. | | | |

ISOLOPES 10/001

COORDINATES

LAT/LONG... 33-18.4 N 108-19.4 W

GEOOTHERM FILE ID: 0001665

CL..... H.
 CO..... K..... 1.8
 OTHER ANALYTICAL DATA... TRACE OF NO2.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

 GEOTHERMAL SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... CATRON
 GEOLOGIC PROVINCE... 25
 MAP REFERENCE..... SAINT JAMES 11250000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 22.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R. & BROOK, C.
 REFERENCE..... BERRY AND OTHERS, 1980

TOWNSHIP-RANGE
 B&M: NEW MEXICO PRINCIPAL
 COORDINATES
 LAT/LONG... 34-09.48 N 108-19.14 W

 GEOTHERMAL SAMPLE FILE
 NAME OF SAMPLE SOURCE... UPPER FRISCO HOT SPRINGS
 WELL/SPRING NUMBER..... 055-19W-34-200
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... CATRON
 GEOLOGIC PROVINCE... BASIN-AND-RANGE
 MAP REFERENCE..... DILLION MOUNTAIN 1124000
 OTHER LOCALITY INFORMATION: ON THE "SAN FRANCISCO RIVER" IN THE "APACHE NATIONAL FOREST"; APPROXIMATELY 8.5 MILES EAST OF "LUVA RANGER STATION" (USFS); AND APPROXIMATELY 1.5 MILES UPSTREAM FROM THE DEEP CANYON ("THE BOX") THROUGH THE "SAN FRANCISCO MINS".
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/02/18
 TEMPERATURE (C)..... 36.7
 DISCHARGE..... E 39.5 L/MIN
 PERTINENT LITHOLOGY..... VOLCANIC CONGLOMERATE; TALUS BLOCK CONSISTS OF ANDESITE AND RHYOLITE TUFF WITH SANDINE, QUARTZ, AND BIOTITE.
 OTHER SAMPLE INFORMATION... SPRINGS EMERGE FROM TALUS COVER APPROXIMATELY 40 FT ABOVE THE BED OF THE RIVER ON A FLAT HENCH.

TOWNSHIP-RANGE
 USS 019W 34 NE
 B&M: NEW MEXICO PRINCIPAL
 COORDINATES
 LAT/LONG... 33-49.9 N 108-48.0 W

 WATER ANALYSIS
 PH..... 9.15
 SPECIFIC CONDUCTANCE..... 242.
 TOTAL DISSOLVED SOLIDS... 223.
 ANALYSIS IN PPM
 AG..... CO3..... 19.
 AL..... 0.23
 AS..... 0.007
 AU.....
 H..... 0.037
 LI..... 0.1
 MG..... 0.1
 MN..... N
 MU.....
 NA..... 69.
 SE... 0.0049
 SI02. 40.

ISOTOPES (D/001)

RECORD 00014

RECORD 00013

GEOTHERM FILE ID: 0001616

GEOTHERM FILE ID: 0001834

HE..... 0.76
 BR..... 3.
 CA..... 97.
 CO.....
 CL..... 12.
 CO..... N
 K..... 0.15
 P04... 0.05

OTHER ANALYTICAL DATA... TRACE OF NO2.
REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

RECORD 00015

GEOTHERM FILE ID: 0070837

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... ALLISON WELL
 WELL/SPRING NUMBER..... 115-24E-26-224

LOCATION

TOWNSHIP-RANGE

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE... PERMIAN BASIN
 MAP REFERENCE..... SOUTH SPRING 1124000

COORDINATES

LAT/LONG... 33-18.93 N 104-28.17 W
 SE OF NE OF NE
 B&M: NEW MEXICO PRINCIPAL

OTHER LOCALITY INFORMATION: ELEVATION = 1090.3 M (TOP OF WELL).

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1975/03/00

TEMPERATURE (C)..... 20.5

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

DISCHARGE..... R 6814. L/MIN

PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("ROSWELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".

WATER ANALYSIS

PI..... 7.

CHARGE IMBALANCE (% DIFF)... 190.7

ANALYSIS IN PPM

AL..... CR..... 0.0007 MG... 41.

AU..... CU..... 0.0025

H..... F..... 8000.

HA..... 0.03

HE..... FE(TOT)... 0.008

HI..... GA.....

CA..... HCU3..... 215.

CA+Mg..... HG..... N

CL..... 33.

CO..... K..... 1.2

OTHER ANALYTICAL DATA... H+ = 7.0 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... LEFEBRE, 1977

ISOTOPES 10/001

S04... 330.

SR... 1.8

5.6

0.019

ZN... N

RECORD 00016

GEOTHERM FILE ID: 0070836

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... ALLISON WELL
 WELL/SPRING NUMBER..... 115-24E-26-224

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 11S 024E 26 SE OF NE OF NE
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE.. PERMIAN BASIN
 MAP REFERENCE..... SOUTH SPRING 1:24000
 OTHER LOCALITY INFORMATION: ELEVATION = 1090.3 M (TOP OF WELL).
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1973/05/00
 TEMPERATURE (C)..... 20.7
 WELL DEPTH (M)..... 180.
 DISCHARGE..... R 6814. L/MIN
 PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("ROSSELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".
 WATER ANALYSIS

P4..... 7.4
 CHARGE IMBALANCE (% DIFF)... 49.2
 ANALYSIS IN PPM

| | | | |
|---------------|------------|---------|------|
| AL..... | CR..... N | MG... | 69. |
| AU..... | CU..... N | | |
| BA..... | F..... N | NA... | 41. |
| HA..... 0.029 | FE(TOT)... | NB... | 362. |
| HF..... | GA..... | NH4... | 1.7 |
| HI..... | HC03..... | NO3.. N | |
| CA..... 168. | HG..... N | PB... | |
| CA+MG... | | | |
| CL..... 75. | | | |
| CO..... | K..... 2.6 | | |
| | | ZN... N | |

OTHER ANALYTICAL DATA... H+ = 7.4 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A
 COMPUTER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEBEHE, 1977

RECORD 00017

GEOTHERM FILE 10: 0070835

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... ALLYSON WELL
 WELL/SPRING NUMBER..... 11S-24E-25-341
 WADING NUMBER.....

LOCATION

COUNTRY..... UNITED STATES 11S 024E 25 NW OF SE OF SW
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE.. PERMIAN BASIN
 MAP REFERENCE..... SOUTH SPRING 1:24000
 OTHER LOCALITY INFORMATION: ELEVATION = 1089.9 M (TOP OF WELL).
 SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1975/05/00
 TEMPERATURE (C)..... 20.9
 WELL DEPTH (M)..... 207.

DISCHARGE..... R 7003. L/MIN

PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("ROSSELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".
 WATER ANALYSIS

P4..... 7.
 CHARGE IMBALANCE (% DIFF)... 5.2
 ANALYSIS IN PPM

| | | | | |
|---------|---------|--------|-------|-----|
| AL..... | CR..... | 0.0011 | MG... | 36. |
|---------|---------|--------|-------|-----|

ISOTOPES 10/001

AL..... CU..... N 0.5 NA.... 25.
 HA..... F..... 0.03 NA.... 241.
 HE..... 1.2 NB.... 1.2
 HI..... FE(TOT). 1.2
 CA..... GA..... 232. S04... 7.6
 CA+Mg. HCO3..... N 0.0065
 CL..... 43. PD....
 CO..... K..... 1.4 ZN.... 0.0034
 OTHER ANALYTICAL DATA... H+ = 7.0 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPUTER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFERRE, 1977

RECORD 00018

GEUTHERM FILE ID: 0070834

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE... ALLYSON WELL
 WELL/SPRING NUMBER..... TIS-2+E-25-341
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE.. PERMIAN BASIN
 MAP REFERENCE..... SOUTH SPRING 1124000
 OTHER LOCALITY INFORMATION: ELEVATION = 1089.9 M (TOP OF WELL)
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1974/04/00
 TEMPERATURE (C)..... 20.2
 WELL DEPTH (M)..... 207.
 DISCHARGE..... R 7003. L/MIN
 PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("ROSSELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".

WATER ANALYSIS

PH..... 7.4
 CHARGE IMBALANCE (% DIFF)... 24.2
 ANALYSIS IN PPM
 AL..... CR..... N MG.... 37.
 AU..... CU..... 0.0027
 HA..... F..... N NA.... 26.
 HA..... 0.037
 BF..... FE(TOT). 0.0001
 BI..... GA..... NB.... S04... 250.
 CA..... HCO3..... 226. NH4... SR... 1.6
 CA+Mg. HCO3..... N NO3... N
 CL..... 63. PD....
 CO..... K..... 1. ZN.... N

ISOTOPES 10/001

OTHER ANALYTICAL DATA... H+ = 7.4 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPUTER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFERRE, 1977

RECORD 00019

GEUTHERM FILE ID: 0070833

GEOTHERMAL SAMPLE FILE

NAME OF SAMPLE SOURCE... ALLYSON WELL
 WELL/SPRING NUMBER... 11S-24E-25-312
 LOCATION
 COUNTRY... UNITED STATES
 STATE... NEW MEXICO
 COUNTY... CHAVES
 GEOLOGIC PROVINCE... PERMIAN BASIN
 MAP REFERENCE... SOUTH SPRING 1:24000
 OTHER LOCALITY INFORMATION: ELEVATION = 1089.9 M (TOP OF WELL).
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1973/05/00
 TEMPERATURE (C)... 20.5
 WELL DEPTH (M)... 207.
 DISCHARGE... R 7003. L/MIN
 PERTINENT LITHOLOGY... DEEP CONFINED AQUIFER ("ROSWELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".
 WATER ANALYSIS
 P.H... 7.5
 CHARGE IMBALANCE (% DIFF)... 68.3
 ANALYSIS IN PPM
 AL...
 AU...
 H...
 HA...
 HE...
 HI...
 CA... 219.
 CA+MG...
 CL... 100.
 CO...
 CR... N
 CU... N
 F... N
 FE(TOT)... N
 GA...
 MG... 65.
 NA... 42.
 NH...
 NI...
 NO3... N
 PB... N
 SO4... 292.
 SR... N
 ZN... N
 OTHER ANALYTICAL DATA... H+ = 7.5 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE... LEFEBRE, 1977

RECORD 00020
 GEOTHERM FILE ID: 0070832

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... ALLYSON WELL
 WELL/SPRING NUMBER... 11S-24E-25-312
 LOCATION
 COUNTRY... UNITED STATES
 STATE... NEW MEXICO
 COUNTY... CHAVES
 GEOLOGIC PROVINCE... PERMIAN BASIN
 MAP REFERENCE... SOUTH SPRING 1:24000
 OTHER LOCALITY INFORMATION: ELEVATION = 1089.4 M NEAR DRIVEWAY
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1974/04/00
 TEMPERATURE (C)... 20.2
 WELL DEPTH (M)... 204.
 DISCHARGE... N
 PERTINENT LITHOLOGY... DEEP CONFINED AQUIFER ("ROSWELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".
 WATER ANALYSIS
 P.H... 7.2
 CHARGE IMBALANCE (% DIFF)... 5.3

ANALYSIS IN PPM

| | | | |
|--------|----------------|----------|-------------|
| AL.... | CK..... N | MG... | 42. |
| AI.... | CU..... 0.002 | NA... | 26. |
| HA.... | F..... N | | |
| HE.... | 0.0048 | | |
| HI.... | FE(TQT) 0.0001 | NB... | S04... 310. |
| CA.... | GA..... | NH4... | SR... 1.7 |
| CA+4b | HC03.... 219. | N03... N | |
| CL.... | HG..... N | PB... N | |
| CO.... | 59. | | |
| | K..... 1.5 | | |
| | ZN... N | | |

OTHER ANALYTICAL DATA... H+ = 7.2 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFERKE, 1977

RECORD 00021

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0070831

NAME OF SAMPLE SOURCE... ALLYSON WELL
 WELL/SPRING NUMBER..... 11S-24E-25-312

LOCATION

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... CHAVES

COORDINATES

LAT/LONG... 33-19.13 N 104-27.80 W

TOWNSHIP-RANGE
11S 024E 25 NE OF NW OF SW
B6M: NEW MEXICO PRINCIPAL

GEOLOGIC PROVINCE... PERMIAN BASIN

MAP REFERENCE... SOUTH SPRING 1124000

OTHER LOCALITY INFORMATION: ELEVATION = 1089.4 M NEAR DRIVEWAY.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/03/00

TEMPERATURE (C)..... 20.

WELL DEPTH (M)..... 204.

DISCHARGE..... N

PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("ROSWELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".

WATER ANALYSIS

pH..... 7.3

CHARGE IMBALANCE (% DIFF)... 41.5

ANALYSIS IN PPM

| | | | |
|--------|-----------------|----------|-------------|
| AL.... | CR..... N | MG... | 55. |
| AI.... | CU..... N | NA... | 34. |
| HA.... | F..... N | | |
| HE.... | 0.0048 | | |
| HI.... | FE(TQT) 0.0001 | NB... | S04... 322. |
| CA.... | GA..... | NH4... | SR... 1.7 |
| CA+4b | HC03.... 0.0036 | N03... N | |
| CL.... | HG..... N | PB... N | |
| CO.... | 62. | | |
| | K..... 1.8 | | |
| | ZN... N | | |

OTHER ANALYTICAL DATA... H+ = 7.3 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFERKE, 1977

ISOTOPES 10/001

ISOTOPES 10/001

RECORD 00022

GEO THERM FILE 101 0070842

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... CLARUDY EAST WELL

WELL/SPRING NUMBER..... 11S-25E-15-343

LOCATION

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... CHAVES
GEOLOGIC PROVINCE... PERMIAN BASIN

MAP REFERENCE..... SOUTH SPRING 1:24000

OTHER LOCALITY INFORMATION: ELEVATION = 1059. M (TOP OF WELL).

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/01/00

TEMPERATURE (C)..... 20.7

WELL DEPTH (M)..... 257.

DISCHARGE..... R 9463. L/MIN

PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("ROSSELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".

OTHER SAMPLE INFORMATION.. WELL DRILLED FEB. 1931.

WATER ANALYSIS

P1..... 6.7

CHARGE IMBALANCE (% DIFF).... 18.4

ANALYSIS IN PPM

| | | | |
|---------|------------|--------|------|
| AL..... | CK..... | MG... | 28. |
| AR..... | CU..... | NA... | 130. |
| BA..... | F..... | NB... | |
| HA..... | FE(TOT). N | NH4... | 503. |
| HE..... | GA..... | NO3... | 1.9 |
| HI..... | HC03..... | PH... | |
| CA..... | 190. | | |
| CL..... | 375. | | |
| CO..... | | | |

OTHER ANALYTICAL DATA... H+ = 6.7 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... LEFERRE, 1977

ISOTOPES 10/001

RECORD 00023

GEO THERM FILE 101 0070841

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... CLARUDY EAST WELL

WELL/SPRING NUMBER..... 11S-25E-15-343

LOCATION

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... CHAVES
GEOLOGIC PROVINCE... PERMIAN BASIN

MAP REFERENCE..... SOUTH SPRING 1:24000

OTHER LOCALITY INFORMATION: ELEVATION = 1059. M (TOP OF WELL).

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/05/00

TEMPERATURE (C)..... 20.6

WELL DEPTH (M)..... 257.

COORDINATES

LAT/LONG... 33-21.07 N 104-23.55 W

DISCHARGE..... R 9463. L/MIN
PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("ROSWELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".
OTHER SAMPLE INFORMATION... WELL DRILLED FEB. 1931.

WATER ANALYSIS

P1..... 7.2
CHARGE IMBALANCE (% DIFF)... 39.7
ANALYSIS IN PPM

| | | | |
|---------------|-----------------|----------|------|
| AL..... | CR..... N | MG... | 90. |
| AU..... | CU..... N | NA... | 320. |
| B..... | F..... N | | |
| HA..... 0.033 | FE(TOT). 0.05 | NB... | |
| HE..... | GA..... | NH4... | |
| HI..... | HCO3.... 0.0037 | NO3... N | |
| CA..... 207. | HG..... N | PB... | |
| CA+MG... | | | |
| CL..... 375. | | | |
| CO..... | K..... 1.8 | ZN... N | |

OTHER ANALYTICAL DATA... H+ = 7.2 PPM.
REFERENCE AND IDENTIFICATION
COMPILED BY..... LAWSON, WILLIAM A
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... LEFEBRE, 1977

ISOTOPES 10/001

S04... 512.
SR... 2.5

RECORD 00024

GEOTHERM FILE ID: 0070846

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... CLARDY WELL
WELL/SPRING NUMBER..... 11S-25E-23-111

TOWNSHIP-RANGE

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... CHAVES
GEOLOGIC PROVINCE... PERMIAN BASIN
MAP REFERENCE..... SOUTH SPRING 1124000
OTHER LOCALITY INFORMATION: ELEVATION = 1059.8 M (TOP OF WELL).
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1975/05/00
TEMPERATURE (C)..... 21.
WELL DEPTH (M)..... 258.
DISCHARGE..... R 3785. L/MIN

COORDINATES

33-20.92 N 104-22.73 W
LAT/LONG... NW OF NW OF NW
B&M: NEW MEXICO PRINCIPAL

PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("ROSWELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".

WATER ANALYSIS

P1..... 6.9
CHARGE IMBALANCE (% DIFF)... 2.2
ANALYSIS IN PPM

| | | | |
|--------------|----------------|--------------|------|
| AL..... | CR..... 0.0016 | MG... | 105. |
| AU..... | CU..... N | NA... | 460. |
| B..... | F..... 0.7 | | |
| HA..... 0.02 | FE(TOT). 0.75 | NB... | |
| HE..... | GA..... | NH4... | |
| HI..... | HCO3.... 208. | NO3... 17. | |
| CA..... | HG..... N | PB... | |
| CA+MG... | | | |
| CL..... 880. | | | |
| CO..... | K..... 2.5 | ZN... 0.0031 | |

ISOTOPES 10/001

S04... 604.
SR... 3.2

OTHER ANALYTICAL DATA... H+ = 6.9 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFERRE, 1977

RECORD 00025

GEOTHERM FILE 101 0070845

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... CLARUY WELL

WELL/SPRING NUMBER..... 11S-25E-23-111

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... CHAVES

GEOLOGIC PROVINCE... PERMIAN BASIN

MAP REFERENCE..... SOUTH SPRING 1:24000

OTHER LOCALITY INFORMATION: ELEVATION = 1059.8 M (TOP OF WELL).

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/05/00

TEMPERATURE (C)..... 20.6

WELL DEPTH (M)..... 258.

DISCHARGE..... M 3/85. L/MIN

PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("ROS WELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".

OTHER SAMPLE INFORMATION.. WELL DRILLED JUNE, 1957.

WATER ANALYSIS

P4..... 7.1

CHARGE IMBALANCE (% DIFF) ... 33.1

ANALYSIS IN PPM

AL.....

AR.....

AS.....

BA..... 0.038

BF.....

BI.....

CA..... 279.

CB.....

CC..... 770.

CD.....

CE.....

CF.....

CG.....

CH.....

CI.....

CJ.....

CK.....

CL.....

CM.....

CN.....

CO.....

CP.....

CQ.....

CR.....

CS.....

CT.....

CU.....

CV.....

CW.....

CX.....

CY.....

CZ.....

ISOTOPIES (0/001

MG.... 104.

NA.... 600.

NB....

NH....

NU....

PB....

S0.... 633.

SR.... 3.2

Zn.... N

OTHER ANALYTICAL DATA... H+ = 7.1 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... LEFERRE, 1977

RECORD 00026

GEOTHERM FILE 101 0070817

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... COGULL - DOMESTIC WELL

WELL/SPRING NUMBER..... 10S-24E-15-333

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... CHAVES

GEOLOGIC PROVINCE... PERMIAN BASIN

MAP REFERENCE..... ROSWELL NORTH 1:24000

OTHER LOCALITY INFORMATION: ELEV. 1082. M. (TOP OF WELL).

TOWNSHIP-RANGE

10S 24E 15

B&M: NEW MEXICO

PRINCIPAL

COORDINATES

LAT/LONG... 33-26.33 N 104-30.22 W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/07/00

TEMPERATURE (C)..... 20.

WELL DEPTH (M)..... 37.

DISCHARGE..... R 189. L/MIN

PERTINENT LITHOLOGY..... SHALLOW UNCONFINED UPPER ALLUVIUM AQUIFER.

WATER ANALYSIS

P..... 7.1

CHARGE BALANCE (% DIFF).... 16.1

ANALYSIS IN PPM

AL..... CR..... N MG.... 22.

AU..... CU..... N NA.... 1450.

H..... F..... N

HA..... I

HE..... FE(TOT)..... N NB.... 2720.

HI..... GA..... NH4.... N

H..... HCO3..... 0.0038 N

CA+MG..... Hg..... N PB.... N

CL..... 2175.

CO..... K..... 3.4

OTHER ANALYTICAL DATA... H+ = 7.1 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... IEFEBRE, 1977

ISOTOPES 10/001

RECORD 00027

GEOTHERMAL SAMPLE LIFE

NAME OF SAMPLE SOURCE... COGILL - DOMESTIC WELL

WELL/SPP/NO NUMBER..... 105-24E-15-333

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... CHAVES

GEOLOGIC PROVINCE... PERMIAN BASIN

MAP REFERENCE..... ROSWELL NORTH 1:24000

OTHER LOCALITY INFORMATION: ELEV. 1082. M (TOP OF WELL).

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/03/00

TEMPERATURE (C)..... 20.

WELL DEPTH (M)..... 37.

DISCHARGE..... R 189. L/MIN

PERTINENT LITHOLOGY..... SHALLOW UNCONFINED UPPER ALLUVIUM AQUIFER.

WATER ANALYSIS

P..... 8.1

CHARGE BALANCE (% DIFF).... 7.0

ANALYSIS IN PPM

AL..... CR..... N MG.... 239.

AU..... CU..... N NA.... 770.

H..... F..... N

HA..... I

HE..... FE(TOT)..... N NB.... 1804.

HI..... GA..... NH4.... N

H..... HCO3..... 0.0028 N

CA+MG..... Hg..... N PB.... N

GEOTHERM FILE ID: 0070816

COORDINATES

LAT/LONG... 33-26.33 N 104-30.22 W

ISOTOPES 10/001

CL..... 1433. ZN... N
 CO..... K..... 3.3
 OTHER ANALYTICAL DATA... H+ = 8.1 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... IEFERRE, 1977

RECORD 00028

GEOTHERM FILE ID: 0070806

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... CORN RANCH - SECTION 13 WINDMILL
 WELL/SPRING NUMBER..... OBS-22E-13-223
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE... PERMIAN BASIN
 MAP REFERENCE..... ROCKHOUSE CANYON 1:24000
 OTHER LOCALITY INFORMATION: ELEV. 1248. M (TOP OF WELL).
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1975/06/00
 TEMPERATURE (C)..... 21.
 WELL DEPTH (M)..... 137.
 DISCHARGE..... L 3.8 L/MIN
 PERTINENT LITHOLOGY..... DEEP UNCONFINED AQUIFER IN "SAN ANDRES LIMESTONE".
 WATER ANALYSIS

PH..... 7.1
 CHARGE IMBALANCE (% DIFF)... 42.0
 ANALYSIS IN PPM

AL.....
 AR.....
 BA..... 0.022
 BE.....
 BI.....
 CA..... 117.
 CA+MG.....
 CL..... 465.
 CO.....
 CR..... 0.0048 MG... 54.
 CU..... 0.004 NA... 520.
 F..... N
 FE(TOT)... 2.7 NB... 258.
 GA..... NH4... 1.2
 HCO3... 185. NO3... 12.
 HG..... N PB... 902.
 K..... 1.3 ZN... 0.4

ISOTOPE 10/001

OTHER ANALYTICAL DATA... H+=7.1 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... IEFERRE, 1977

RECORD 00029

GEOTHERM FILE ID: 0070809

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... CORN RANCH - SECTION 16 WINDMILL
 WELL/SPRING NUMBER..... OBS-23E-16-110
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE... PERMIAN BASIN
 TOWNSHIP=RANGE 16 NW OF NW
 B6M: NEW MEXICO PRINCIPAL
 COORDINATES
 LAT/LONG... 33-37.58 N 104-37.62 W

MAP REFERENCE..... PANTHER HILL 1:24000
 OTHER LOCALITY INFORMATION: CENTER OF NW COR. OF NW QTR. OF SEC. 16; ELEV. 1234.1 M (TOP OF WELL).

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/05/00

TEMPERATURE (C)..... 24.

WELL DEPTH (M)..... 178.

DISCHARGE..... L 3.8 L/MIN

PERTINENT LITHOLOGY..... AQUIFER IN SAN ANDRES LIMESTONE.

WATER ANALYSIS

PH..... 7.

CHARGE IMBALANCE (% DIFF).... 39.3

ANALYSIS IN PPM

AL..... CR..... N MG... 264.

AU..... CU..... N

H..... F..... N NA... 420.

HA..... 0.043

HE..... FE(TOT)..... 2.6

HI..... GA..... NH... 1442.

HO..... HCO₃..... 0.0049 N SR... 9.

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

CL..... 530.

CO..... K..... 3. ZN... N

OTHER ANALYTICAL DATA... H₂ = 7.0 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... LEFEBRE, 1977

RECORD 00030

GEOTERM SAMPLE FILE

NAME OF SAMPLE SOURCE... CORN RANCH - SECTION 16 WINDMILL

WELL/SPRING NUMBER..... 08S-23E-16-110

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... CHAVES

GEOLOGIC PROVINCE... PERMIAN BASIN

MAP REFERENCE..... PANTHER HILL 1:24000

OTHER LOCALITY INFORMATION: ELEV. 1234.1 M (TOP OF WELL).

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/03/00

TEMPERATURE (C)..... 24.

WELL DEPTH (M)..... 178.

DISCHARGE..... L 3.8 L/MIN

PERTINENT LITHOLOGY..... AQUIFER IN SAN ANDRES LIMESTONE.

OTHER SAMPLE INFORMATION.. WELL DRILLED 1962.

WATER ANALYSIS

PH..... 7.5

CHARGE IMBALANCE (% DIFF).... 29.8

ANALYSIS IN PPM

AL..... CR..... N MG... 238.

AU..... CU..... N

H..... F..... N NA... 470.

HA..... 0.053

HE..... FE(TOT)..... 1.2

SR... 504.. 1617.

GEOTHERM FILE ID: 0070808

COORDINATES

LAT/LONG... 33-37.58 N 104-37.62 W

ISOTOPES 10/2001

SR... 9.1

HI.... 531. GA..... NH4...
 CA.... HCO3... 0.003 NO3... N
 CA+MG. HG..... N PR... N
 CL.... 560. K..... 3.2
 CU....

ZN... N

OTHER ANALYTICAL DATA... H₂ = 7.5 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

RECORD 00031

GEOTHERM FILE ID: 0070814

COORDINATES

LAT/LONG... 33-37.58 N 104-37.62 W

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... CORN RANCH - SECTION 16 WINDMILL
 WELL/SPRING NUMBER..... 08S-23E-16-110

TOWNSHIP=RANGE

COUNTRY..... UNITED STATES 08S 023E 16 NW OF NW
 STATE..... NEW MEXICO 84M: NEW MEXICO PRINCIPAL
 COUNTY..... CHAVES

MAP REFERENCE..... PERMIAN BASIN
 OTHER LOCALITY INFORMATION: PANHER HILL 1124000
 ELEV. 1234.1 M (TOP OF WELL).
 SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1975/07/00

TEMPERATURE (C)..... 21.

WELL DEPTH (M)..... 178.

DISCHARGE..... L 3.8 L/MIN

PERTINENT LITHOLOGY..... AQUIFER IN SAN ANDRES LIMESTONE.

WATER ANALYSIS

PH..... 7.1
 CHARGE IMPBALANCE (% DIFF)... 18.2

ANALYSIS IN PPM

AL..... CR..... 0.001 MG... 174.
 AU..... CU..... 0.0008
 HA..... F..... 0.69 NA... 349.

HE..... FE(TOT). N NB... 2075.
 HI..... GA..... NH4... 9.8
 CA.... 365. HCO3... 3.4
 CA+MG. HG..... N PR... 0.023

ZN... 0.11

OTHER ANALYTICAL DATA... H₂ = 7.1 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

RECORD 00032

GEOTHERM FILE ID: 0070813

COORDINATES

LAT/LONG... 33-37.58 N 104-37.62 W

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... CORN RANCH - SECTION 16 WINDMILL
 WELL/SPRING NUMBER..... 08S-23E-16-110

TOWNSHIP=RANGE

COUNTRY..... UNITED STATES 08S 023E 16 NW OF NW

STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
COUNTY..... CHAVES
GEOLOGIC PROVINCE.. PERMIAN BASIN
MAP REFERENCE..... PANTHER HILL 1124000
OTHER LOCALITY INFORMATION: ELEV. 1234.1 (TOP OF WELL).
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1975/05/00
TEMPERATURE (C)..... 25.
WELL DEPTH (M)..... 178.
DISCHARGE..... L 3.8 L/MIN
PERTINENT LITHOLOGY..... AQUIFER IN SAN ANDRES LIMESTONE.
WATER ANALYSIS
PH..... 7.5
CHARGE IMBALANCE (% DIFF)... 16.5
ANALYSIS IN PPM
AL.....
AU.....
H.....
RA..... 0.04
FE.....
HI.....
CA..... 3/1.
CA+MG.....
CL..... 500.
CO.....
K..... 2.7
OTHER ANALYTICAL DATA... H+ = 7.5 PPM.
REFERENCE AND IDENTIFICATION
COMPILED BY..... LAWSON, WILLIAM A
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... LEFERKE, 1977

ISOTOPES 10/001

| | | | |
|------------|--------|--------|-------|
| CR..... | 0.0029 | MG... | 173. |
| CU..... | 0.0017 | NA... | 253. |
| F..... | 0.7 | | |
| FE(TOT)... | 8.8 | NB... | 1575. |
| GA..... | | NH4... | 4.5 |
| HCO3..... | 299. | NO3... | 20. |
| HG..... | N | PB... | 0.275 |
| CL..... | 500. | | |
| CO..... | | ZN... | 0.13 |

RECORD 00033

GEO THERM FILE ID: 0070811

GEO THERM SAMPLE FILE
NAME OF SAMPLE SOURCE... CORN HANCH - SECTION 16 WINDMILL
WELL/SPRING NUMBER..... 085-23E-16-110
LOCATION
COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... CHAVES
GEOLOGIC PROVINCE.. PERMIAN BASIN
MAP REFERENCE..... PANTHER HILL 1124000
OTHER LOCALITY INFORMATION: ELEV. 1234.1 M (TOP OF WELL).
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1974/11/00
TEMPERATURE (C)..... 21.5
WELL DEPTH (M)..... 178.
DISCHARGE..... L 3.8 L/MIN
PERTINENT LITHOLOGY..... AQUIFER IN SAN ANDRES LIMESTONE.
WATER ANALYSIS
PH..... 7.5
CHARGE IMBALANCE (% DIFF)... 16.9
ANALYSIS IN PPM
AL.....
AU.....
H.....
CR..... 0.0045
CU.....
F..... N
RA..... 0.55
FE.....
HI.....
CA.....
CA+MG.....
CL.....
CO.....
K.....
MG... 190.
NA... 190.
PB...
ZN... 0.13

COORDINATES

LAT/LONG... 33-37.58 N 104-37.62 W

ISOTOPES 10/001

HA..... 0.026
 HE.....
 HI..... 16.
 CA..... 470.
 CA+MG..... N
 CL..... 170.
 CO.....
 K..... 2.5
 NB.....
 NH4.....
 NO3..... N
 PD..... 0.02
 S04.....
 SR.....
 ZN..... N

OTHER ANALYTICAL DATA... H+ = 7.5 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

COMPILED BY..... U.S. GEOLOGICAL SURVEY

REFERENCE..... LEBRE, 1977

RECORD 00034

GEOTHERM FILE ID: 0070810

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... CORN RANCH - SECTION 16 WINDMILL

WELL/SPRING NUMBER..... 08S-23E-16-110

LOCATION..... TOWNSHIP=RANGE

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... CHAVES

GEOLOGIC PROVINCE... PERMIAN BASIN

MAP REFERENCE..... PANTHER HILL 1:24000

OTHER LOCALITY INFORMATION: ELEV. 1234.1 M (TOP OF WELL).

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1974/03/00

TEMPERATURE (C)..... 24.

WELL DEPTH (M)..... 178.

DISCHARGE..... L 3.8 L/MIN

PERMIT LITHOLOGY..... AQUIFER IN SAN ANDRES LIMESTONE.

OTHER SAMPLE INFORMATION.. 300.

WATER ANALYSIS

PH..... 7.

CHARGE IMBALANCE (% DIFF)... 149.0

ANALYSIS IN PPM

AL.....

AR.....

AS.....

BA..... 7.5

BE.....

BI.....

CA..... 150.

CA+MG..... N

CL..... 334.

CO.....

K..... 432.

OTHER ANALYTICAL DATA... H+ = 7.0 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

COMPILED BY..... U.S. GEOLOGICAL SURVEY

REFERENCE..... LEBRE, 1977

RECORD 00035

GEOTHERM FILE ID: 0070812

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... CORN RANCH - SECTION 16 WINDMILL

WELL/SPRING NUMBER..... 085-23E-16-110 TOWNSHIP=RANGE
 LOCATION UNITED STATES OBS 023E 16 NW OF NW
 COUNTRY..... NEW MEXICO H&M: NEW MEXICO PRINCIPAL
 STATE..... CHAVES
 COUNTY..... PERMIAN BASIN
 GEOLOGIC PROVINCE.....
 MAP REFERENCE..... PANTHER HILL 1:24000
 OTHER LOCALITY INFORMATION: ELEV. 1234.1 M (TOP OF WELL).
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1974/11/00
 TEMPERATURE (C)..... 21.5
 ELI DEPTH (M)..... 178.
 DISCHARGE..... L 3.8 L/MIN
 PERTINENT LITHOLOGY..... AQUIFER IN SAN ANDRES LIMESTONE.
 WATER ANALYSIS
 P.H..... 7.5
 ANALYSIS IN PPM
 AL.....
 AD.....
 H..... 0.032
 HA.....
 HE.....
 HI.....
 CA..... 470.
 CA+MG.....
 CL..... 150.
 CO.....
 CR..... 0.0035 MG... 190.
 CU..... N
 F..... 0.78 NA... 320.
 FE(TOT)..... 10. NH...
 GA..... NH4...
 HCO3..... N NO3... N
 HG..... PB...
 K..... 2.6 S04... 2200.
 NI..... SR... 9.
 OTHER ANALYTICAL DATA... H+ = 7.5 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

ISOTOPES 10/2001

RECORD 00036

GEOTHERM FILE ID: 0070807

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... CORN RANCH - SECTION 22 WINDMILL
 WELL/SPRING NUMBER..... 085-22E-22-222 TOWNSHIP=RANGE
 LOCATION UNITED STATES OBS 022E 22 NE OF NE OF NE
 COUNTRY..... NEW MEXICO H&M: NEW MEXICO PRINCIPAL
 STATE..... CHAVES
 COUNTY..... PERMIAN BASIN
 GEOLOGIC PROVINCE.....
 MAP REFERENCE..... BARN DRAW 1:24000
 OTHER LOCALITY INFORMATION: ELEV. 1219.2 M (TOP OF WELL).
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1975/07/00
 TEMPERATURE (C)..... 24.
 DISCHARGE..... L 3.8 L/MIN
 PERTINENT LITHOLOGY..... DEEP UNCONFINED AQUIFER IN "SAN ANDRES LIMESTONE".
 WATER ANALYSIS
 P.H..... 7.4
 CHANGE IMBALANCE (% DIFF)... 100.7
 ANALYSIS IN PPM
 AL.....
 AD.....
 H..... 0.00175 MG... 35.
 HA.....
 HE.....
 HI.....
 CA.....
 CA+MG.....
 CL.....
 CO.....
 CR.....
 CU..... N
 F.....
 FE(TOT).....
 GA.....
 HCO3.....
 HG.....
 K.....
 NI.....
 OTHER ANALYTICAL DATA...
 REFERENCE AND IDENTIFICATION
 COMPILED BY.....
 COMPILER AFFILIATION...
 REFERENCE.....

ISOTOPES 10/2001

ISOTOPES 10/2001

| | | | | | | |
|---------|------|-----------|-------|-------|--------|-------|
| HA..... | 0.03 | F..... | 4400. | NA... | 333. | |
| HA..... | | FE(101). | 1.3 | NB... | | 504.. |
| HE..... | | GA..... | | NH4.. | | SR... |
| HI..... | | HC03..... | 178. | N03.. | 13. | |
| CA..... | 103. | HG..... | N | PB... | 0.0155 | |
| CA+Mg. | 347. | K..... | 1.4 | | | |
| CL..... | | | | | | ZN... |
| CO..... | | | | | | N |

RECORD 00037

GEOTHERM FILE ID: 0070805

GEOTHERM SAMPLE FILE 0070805

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... CORN RANCH - SECTION 36 WINDMILL
WELL/SPRING NUMBER..... 075-22E-36-422

COORDINATES
LAT/LONG... 33-39.85 N 104-39.92 W

LOCATION
COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... CHAVEZ
GEOLOGIC PROVINCE... PERMIAN BASIN
MAP REFERENCE..... ROCKHOUSE CANYON 1:24000
OTHER LOCALITY INFORMATION: ELEV. 1257.3 M (TOP OF WELL).
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1975/07/00
TEMPERATURE (C)..... 23.4
DISCHARGE..... L 3.8
PERTINENT LITHOLOGY..... DEEP UNCONFINED AQUIFER IN "SAN ANDRES LIMESTONE".
WATER ANALYSIS

RECORD 00038

GEOTHERM FILE ID: 0070804

GEOTHERMAL SUPPLEMENT
NAME OF SAMPLE SOURCE... CURR RANCH - SECTION 36 WINDMILL
WELL/SPRING NUMBER..... 7/S-22E-36-422

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE.. PERMIAN BASIN
 MAP REFERENCE..... ROCKHOUSE CANYON 1:24000
 OTHER LOCALITY INFORMATION: ELEV. 1257.3 M (TOP OF WELL).
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1975/05/00
 TEMPERATURE (C)..... 22.
 DISCHARGE..... L 3.8 L/MIN
 PERTINENT LITHOLOGY..... DEEP UNCONFINED AQUIFER IN "SAN ANDRES LIMESTONE".
 WATER ANALYSIS
 P1..... 6.8
 CHARGE IMBALANCE (% DIFF)..... 3.5
 ANALYSIS IN PPM

| | | ISOTOPES 10/001 | |
|---------|----------------|-----------------|------|
| AL..... | CR..... 0.0038 | MG... | 73. |
| AU..... | CU..... N | NA... | 510. |
| H..... | F..... 0.5 | | |
| HA..... | U.026 | | |
| HE..... | FE(TOT) 1.7 | NB... | 789. |
| HI..... | GA..... | NH4... | 4.2 |
| CA..... | 291. | NO3... | 12. |
| CA+MG. | HCO3..... 161. | PB... | 0.03 |
| CL..... | MG..... N | | |
| CO..... | 790. | | |
| | K..... 2.3 | ZN... | 1.2 |

OTHER ANALYTICAL DATA... H+≅6.8 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

RECORD 00039
 GEOTHERM FILE 101 0070803

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... CURN RANCH - SECTION 36 WINDMILL
 WELL/SPRING NUMBER..... 07S-22E-36-422
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE.. PERMIAN BASIN
 MAP REFERENCE..... ROCKHOUSE CANYON 1:24000
 OTHER LOCALITY INFORMATION: ELEV. 1257.3 M (TOP OF WELL).
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1974/03/00
 TEMPERATURE (C)..... 20.
 DISCHARGE..... L 3.8 L/MIN
 PERTINENT LITHOLOGY..... DEEP UNCONFINED AQUIFER IN "SAN ANDRES LIMESTONE".
 WATER ANALYSIS
 P1..... 7.2
 CHARGE IMBALANCE (% DIFF)..... 8.1
 ANALYSIS IN PPM

| | | ISOTOPES 10/001 | |
|---------|-----------|-----------------|------|
| AL..... | CR..... N | MG... | 57. |
| AU..... | CU..... | NA... | 300. |
| H..... | F..... N | | |

RA.... 0.036
 HE....
 HI....
 CA.... 248.
 CA+Mg. 555.
 CL....
 CO....
 FE(TOT). 7.
 GA....
 HCO3.... 157.
 HG..... N
 NB....
 NH4....
 NO3.... N
 PB.... N
 S04... 700.
 SR.... 3.9
 K..... 2.3
 Zn.... N
 OTHER ANALYTICAL DATA... H+=7.2 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFERRE, 1977

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... CORN RANCH - SECTION 36 WINDMILL
 WELL/SPRING NUMBER..... 075-22E-36-422
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE.. PERMIAN BASIN
 MAP REFERENCE..... ROCKHOUSE CANYON 1:24000
 OTHER LOCALITY INFORMATION: ELEV. 1257.3 M (TOP OF WELL).
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1973/05/00
 TEMPERATURE (C)..... 22.
 DISCHARGE..... L 3.8 L/MIN
 PERTINENT LITHOLOGY..... DEEP UNCONFINED AQUIFER IN "SAN ANDRES LIMESTONE".
 WATER ANALYSIS
 P..... 7.55
 CHARGE IMBALANCE (% DIFF)... 34.9
 ANALYSIS IN PPM
 AL.....
 AU.....
 H.....
 RA.... 0.036
 HE....
 HI....
 CA.... 348.
 CA+Mg. 605.
 CL....
 CO....
 FE(TOT). 20.
 GA....
 HCO3.... 0.0027
 HG..... N
 NB....
 NH4....
 NO3.... N
 PB.... N
 S04... 682.
 SR.... 4.3
 K..... 3.
 Zn.... N

TOWNSHIP=RANGE 36 NE OF NE OF SE
 075 022E 36 LAT/LONG... 33-39.85 N 104-39.92 W
 B&M: NEW MEXICO PRINCIPAL

ISOLOPES 10/001

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... HENDRICK WELL
 WELL/SPRING NUMBER..... 115-23E-01-433
 LOCATION
 COUNTRY.....
 STATE.....
 COUNTY.....
 GEOLOGIC PROVINCE..
 MAP REFERENCE.....
 OTHER LOCALITY INFORMATION:
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR.....
 TEMPERATURE (C).....
 DISCHARGE.....
 PERTINENT LITHOLOGY.....
 WATER ANALYSIS
 P.....
 CHARGE IMBALANCE (% DIFF)...
 ANALYSIS IN PPM
 AL.....
 AU.....
 H.....
 RA....
 HE....
 HI....
 CA....
 CA+Mg.
 CL....
 CO....
 FE(TOT).
 GA....
 HCO3....
 HG.....
 NB....
 NH4....
 NO3....
 PB....
 S04...
 SR....
 K.....
 Zn....

COORDINATES

TOWNSHIP=RANGE

COUNTRY..... UNITED STATES 115 023E 01 NE OF SW OF SE
STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
LAT/LONG... 33-22.90 N 104-33.70 W

COUNTY..... CHAVES
GEOLOGIC PROVINCE... PERMIAN BASIN
MAP REFERENCE..... ROSWELL NORTH 1:24000
OTHER LOCALITY INFORMATION: ELEVATION - 1106.4 M (TOP OF WELL).
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1975/05/00

TEMPERATURE (C)..... 20.6
WELL DEPTH (M)..... 49.

DISCHARGE..... R 4921. L/MIN

PERTINENT LITHOLOGY..... SHALLOW UNCONFINED UPPER ALLUVIUM AQUIFER.

WATER ANALYSIS

PH..... 7.1
CHARGE IMBALANCE (% DIFF)... 31.0

ANALYSIS IN PPM

| | | | | |
|----------|------------|--------|--------|------------|
| AL..... | CR..... | 0.0011 | MG... | 96. |
| AR..... | CU..... | N | NA... | 165. |
| AS..... | F..... | N | | |
| HA..... | | 0.02 | | |
| RE..... | FE(TOT)... | 5. | NB... | 504.. 476. |
| HI..... | GA..... | | NH4... | SR... 1.7 |
| CA..... | HC03..... | 222. | NO3... | 13. |
| CA+MG... | HG..... | N | PB... | 0.0095 |
| CL..... | | 1/0. | | |
| CO..... | K..... | 1.3 | ZN... | 0.07 |

OTHER ANALYTICAL DATA... H+ = 7.1 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... LEFEBRE, 1977

ISOTOPES 10/2001

RECORD 00042

GEOTHERM FILE ID: 0070826

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... JENJINGS WELL
WELL/SPRING NUMBER..... 115-23E-12-333
LOCATION

TOWNSHIP-RANGE

COUNTRY..... UNITED STATES 115 023E 12 SW OF SW OF SW
STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
COUNTY..... CHAVES
GEOLOGIC PROVINCE... PERMIAN BASIN
MAP REFERENCE..... ROSWELL SOUTH 1:24000

COORDINATES

LAT/LONG... 33-21.98 N 104-34.58 W

OTHER LOCALITY INFORMATION: ELEVATION - 1109.5 M (TOP OF WELL).
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1973/03/00

TEMPERATURE (C)..... 20.
WELL DEPTH (M)..... 52.

DISCHARGE..... R 3406. L/MIN

PERTINENT LITHOLOGY..... SHALLOW UNCONFINED UPPER ALLUVIUM AQUIFER.

WATER ANALYSIS

PH..... 7.4
CHARGE IMBALANCE (% DIFF)... 28.5

ANALYSIS IN PPM

| | | | | |
|---------|---------|---|-------|-----|
| AL..... | CR..... | N | MG... | 49. |
| AR..... | CU..... | N | | |

ISOTOPES 10/2001

| | | | | | | |
|---------|-------|----------|--------|--------|-----|-------------|
| H..... | | F..... | N | NA.... | 99. | |
| HA..... | 0.037 | FE(TOT). | 0.1 | NB.... | | 504... 460. |
| HE..... | | GA..... | | NH4... | | SR... 2. |
| HI..... | | HC03.... | 0.0038 | NU3... | N | |
| CA..... | 215. | HG..... | N | PR.... | N | |
| CA+MG. | | | | | | |
| CL..... | 170. | | | | | |
| CO..... | | K..... | 1.4 | | | ZN... N |

OTHER ANALYTICAL DATA... H+ = 7.4 PPM.
REFERENCE AND IDENTIFICATION
COMPILED BY..... LAWSON, WILLIAM A
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... LEFEBRE, 1977

RECORD 00043

GEOTHERM FILE ID: 0070827

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... JENNINGS WELL

WELL/SPRING NUMBER... 11S-23E-12-333

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... CHAVES

GEOLOGIC PROVINCE.. PERMIAN BASIN

MAP REFERENCE..... ROSWELL SOUTH 1:24000

OTHER LOCALITY INFORMATION: ELEVATION - 1109.5 M (TOP OF WELL).

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/05/00

TEMPERATURE (C)..... 20.4

WELL DEPTH (M)..... 52.

DISCHARGE..... R 3406. L/MIN

PERTINENT LITHOLOGY..... SHALLOW UNCONFINED UPPER ALLUVIUM AQUIFER.

WATER ANALYSIS

P1..... 7.2

CHANGE IMBALANCE (% DIFF)... 22.6

ANALYSIS IN PPM

| | | | | | |
|---------|-------|----------|--------|--------|-----|
| AL..... | | CR..... | N | MG.... | 82. |
| AU..... | | CU..... | N | | |
| BA..... | | F..... | N | NA.... | 51. |
| BE..... | 0.031 | | | | |
| BI..... | | FE(TOT). | 0.0003 | NB.... | |
| BR..... | | GA..... | | NH4... | |
| BS..... | | HC03.... | 0.0035 | NU3... | N |
| BT..... | 202. | HG..... | N | PR.... | N |
| BU..... | | | | | |
| CA..... | | | | | |
| CB..... | | | | | |
| CC..... | 155. | | | | |
| CD..... | | | | | |
| CE..... | | | | | |
| CF..... | | | | | |
| CG..... | | | | | |
| CH..... | | | | | |
| CI..... | | | | | |
| CJ..... | | | | | |
| CK..... | | | | | |
| CL..... | | | | | |
| CM..... | | | | | |
| CN..... | | | | | |
| CO..... | | | | | |
| CP..... | | | | | |
| CQ..... | | | | | |
| CR..... | | | | | |
| CS..... | | | | | |
| CT..... | | | | | |
| CU..... | | | | | |
| CV..... | | | | | |
| CW..... | | | | | |
| CX..... | | | | | |
| CY..... | | | | | |
| CZ..... | | | | | |
| DA..... | | | | | |
| DB..... | | | | | |
| DC..... | | | | | |
| DD..... | | | | | |
| DE..... | | | | | |
| DF..... | | | | | |
| DG..... | | | | | |
| DH..... | | | | | |
| DI..... | | | | | |
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| DK..... | | | | | |
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| DO..... | | | | | |
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| JK..... | | | | | |
| KL..... | | | | | |
| JL..... | | | | | |

WELL/SPRING NUMBER..... 15S-26E-04-123
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE..... PERMIAN BASIN
 MAP REFERENCE..... HAGERMAN 1:24000
 OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1049.4 M.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1975/05/00
 TEMPERATURE (C)..... 26.
 WELL DEPTH (M)..... 372.
 DISCHARGE..... R 3785. L/MIN
 PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("ROSSELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".
 WATER ANALYSIS

PH..... 7.
 CHARGE IMBALANCE (% DIFF).... 1.4
 ANALYSIS IN PPM

| | | | | |
|------------|--------------|---------|--------|--------|
| AL..... | CR..... | 0.001 | MG... | 66. |
| AU..... | CU..... | 0.00025 | NA... | 14. |
| HA..... | F..... | 0.5 | | |
| HE..... | FE(TOT)..... | 1. | NB... | 585. |
| HI..... | GA..... | | NH4... | 2.9 |
| CA..... | HCO3..... | 227. | NO3... | 6. |
| CA+MG..... | HG..... | N | PB... | 0.015 |
| CL..... | | | | |
| CO..... | K..... | 1.8 | ZN... | 0.0135 |

OTHER ANALYTICAL DATA... H+ = 7.0 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFERRE, 1977

RECORD 00045
 GEOTHERM FILE 101 0070838

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... OASIS WELL
 WELL/SPRING NUMBER..... 15S-25E-15-333
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE..... PERMIAN BASIN
 MAP REFERENCE..... SOUTH SPRING 1:24000
 OTHER LOCALITY INFORMATION: ELEVATION = 1059. M (TOP OF WELL).
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1973/05/00
 TEMPERATURE (C)..... 20.5
 WELL DEPTH (M)..... 238.
 DISCHARGE..... R 7571. L/MIN
 PERTINENT LITHOLOGY..... AQUIFER IN SAN ANDRES LIMESTONE.
 WATER ANALYSIS

PH..... 7.3
 CHARGE IMBALANCE (% DIFF).... 57.4
 ANALYSIS IN PPM

ISOTOPES 10/001

RECORD 00047
GEOTHERM FILE ID: 0070839

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... OASIS WELL
WELL/SPRING NUMBER..... 115-25E-15-333
LOCATION
COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... CHAVES
GEOLOGIC PROVINCE.. PERMIAN BASIN
MAP REFERENCE..... SOUTH SPRING 1124000
OTHER LOCALITY INFORMATION: ELEVATION = 4059. M (TOP OF WELL).
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1974/11/00
TEMPERATURE (C)..... 20.
WELL DEPTH (M)..... 238.
DISCHARGE..... R 7571. L/MIN
PERTINENT LITHOLOGY..... AQUIFER IN SAN ANDRES LIMESTONE.
WATER ANALYSIS
P..... 7.
CHARGE IMBALANCE (% DIFF).... 176.1
ANALYSIS IN PPM
AL..... CR..... 0.0021 MG... 64.
AU..... CU..... N
H..... F..... 7600. NA... 245.
BA..... 0.044
HE..... FE (TOT)..... 0.6 NB... 560.
HI..... GA..... NH4... 2.8
CA..... 220. HCO3... N
CA+MG. HG..... N 0.028
CL..... K..... 1.9
CO..... ZN... N
OTHER ANALYTICAL DATA... H+ = 7.0 PPM.
REFERENCE AND IDENTIFICATION
COMPILED BY..... LAWSON, WILLIAM A
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... LEFEBRE, 1977

ISOIOPES 10/001

RECORD 00048
GEOTHERM FILE ID: 0070850

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... PATTERSON WELL
WELL/SPRING NUMBER..... 125-23E-05-341
LOCATION
COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... CHAVES
GEOLOGIC PROVINCE.. PERMIAN BASIN
MAP REFERENCE..... HONDO RESERVOIR 1124000
OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1160.7 M.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1975/05/00
TEMPERATURE (C)..... 20.
WELL DEPTH (M)..... 140.
DISCHARGE..... R 189. L/MIN

COORDINATES

LAT/LONG... 33-21.05 N 104-23.82 W

COORDINATES

LAT/LONG... 33-17.63 N 104-38.53 W

PERTINENT LITHOLOGY..... DEEP UNCONFINED AQUIFER ("ROSSELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".
WATER ANALYSIS

PH..... 6.7
CHARGE IMBALANCE (% DIFF)... 13.1

ANALYSIS IN PPM

| | | | | |
|---------|-----------|---------|--------|--------|
| AL..... | CR..... | 0.00145 | MG... | 40. |
| AU..... | CU..... | N | | |
| H..... | F..... | 0.1 | NA... | 42. |
| HA..... | | 0.033 | | |
| HE..... | FE(TOT). | 0.77 | NB... | 285. |
| HI..... | GA..... | | NH4... | 2.2 |
| CA..... | HCO3..... | 241. | NO3... | 16. |
| CA+MG. | HG..... | N | PB... | 0.0095 |
| CL..... | | 47. | | |

CO..... K..... 1.1 ZN... 0.0042

OTHER ANALYTICAL DATA... H+ = 6.7 PPM.
REFERENCE AND IDENTIFICATION
COMPILED BY..... LAWSON, WILLIAM A
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... LEFEBRE, 1977

RECORD 00049

GEOTHERM FILE ID: 0070852

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... PATTERSON WELL
WELL/SPRING NUMBER..... 12S-23E-06-411

LOCATION

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... CHAVES
GEOLOGIC PROVINCE... PERMIAN BASIN

MAP REFERENCE..... HONDO RESERVOIR 1:24000

OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1167.4 M.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/05/00

TEMPERATURE (C)..... 20.4

WELL DEPTH (M)..... 189.

DISCHARGE..... R 4921. L/MIN

PERTINENT LITHOLOGY..... AQUIFER IN MULTIPLE FORMATIONS.

WATER ANALYSIS

PH..... 7.4

ANALYSIS IN PPM

| | | | | |
|---------|-----------|--------|--------|------|
| AL..... | CR..... | N | MG... | N |
| AU..... | CU..... | N | | |
| H..... | F..... | N | NA... | N |
| HA..... | | 0.025 | | |
| HE..... | FE(TOT). | 0.1 | NB... | 2/2. |
| HI..... | GA..... | | NH4... | 1.8 |
| CA..... | HCO3..... | 0.0041 | NO3... | N |
| CA+MG. | HG..... | N | PB... | N |
| CL..... | | 55. | | |

CO..... K..... N ZN... N

OTHER ANALYTICAL DATA... H+ = 7.4 PPM.
REFERENCE AND IDENTIFICATION
COMPILED BY..... LAWSON, WILLIAM A
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

COORDINATES

LAT/LONG... 33-17.87 N 104-39.33 W

ISOTOPES 10/001

ISOTOPES 10/001

REFERENCE..... LEFERRE, 1977

RECORD 00050

GEOTHERM FILE 10: 0070851

GEOTHERM_SAMPLE_FILE

NAME OF SAMPLE SOURCE... PATTERSON WELL (LITTLE CAT)

WELL/SPRING NUMBER..... 125-23E-06-214

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... CHAVES

GEOLOGIC PROVINCE.. PERMIAN BASIN

MAP REFERENCE..... HONDO RESERVOIR 1:24000

OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1158.2 M.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1975/07/00

TEMPERATURE (C)..... 20.7

WELL DEPTH (M)..... 201.

DISCHARGE..... R 3785. L/MIN

PERTINENT LITHOLOGY..... DEEP UNCONFINED AQUIFER ("ROSWELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".

OTHER SAMPLE INFORMATION.. IRRIGATION WELL.

WATER ANALYSIS

PH..... 7.2

CHARGE IMBALANCE (% DIFF)... 191.7

ANALYSIS IN PPM

AL.....

AR.....

BA.....

BF.....

BI.....

CA.....

CD.....

CE.....

CF.....

CG.....

CH.....

CI.....

CJ.....

CK.....

CL.....

CM.....

CN.....

CO.....

CP.....

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CR.....

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TEMPERATURE (C)..... 23.8
WELL DEPTH (M)..... 421.
DISCHARGE..... R 7571. L/MIN
PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("ROSSELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".
MATCH ANALYSIS

| | |
|------------------------------|-----|
| P-1..... | 7.2 |
| CHARGE IMBALANCE (% DIFF) .. | 4.0 |
| ANALYSIS IN PPM | |

USOIOSES (0/00)

| | CR..... | MG.... | 56. |
|---------|---------|-------------|------|
| AL..... | 0.001 | | |
| AU..... | 0.006 | | |
| H..... | 1.6 | NA.... | 19. |
| BA..... | | | |
| BE..... | 0.035 | NB.... | |
| BI..... | | NH.... | |
| CA..... | 185. | NO.... | 20. |
| CA-MG.. | | PB.... | 0.14 |
| | | | |
| | | S04... 470. | |
| | | SR.... 2.8 | |

$$\mathbb{Z}N \dots \mathbb{Z}$$

OTHER ANALYTICAL DATA... $H^+ = 7.2$ ppm.

REFERENCE AND IDENTIFICATION

| | |
|-------------------------|------------------------|
| COMPILED BY..... | LAWSON, WILLIAM A |
| COMPILER AFFILIATION... | U.S. GEOLOGICAL SURVEY |
| REFERENCE..... | LEFEBRE, 1977 |

RECORD 00052

GEOTHERM FILE NO: 0070858

| | |
|--------------------------|---------------------------|
| GEOGRAPHIC SAMPLE FILE | |
| NAME OF SAMPLE SOURCE... | POLLARD WELL |
| WELL/SPRING NUMBER..... | 15S-26E-13-121 |
| LOCATION | TOWNSHIP-RANGE |
| COUNTRY..... | UNITED STATES |
| STATE..... | NEW MEXICO |
| | B&M: NEW MEXICO PRINCIPAL |
| | NW OF NW OF NE |
| | 15S 026E 13 |
| | COORDINATES |
| | NW LAT/LONG.. |

SHIP-RANGE 13 NW OF NW OF NE NW LAT/LONG... 33-01.35 N 104-17.72 W
 COORDINATES
 86M; NEW MEXICO PRINCIPAL

TOWNSHIP-RANGE

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... CHAVES
GEOLOGIC PROVINCE..... PERMIAN BASIN
MAP REFERENCE..... HAGERMAN 1124-000
OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1024.7 M.
INSTRUMENT.....
155 0256 13 NW
86M; NEW MEXICO PR

OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1024.7 M.

5NOTT18N05-DNV-NOTT18C536 31CWS

DATE/COLLECTOR..... 1974/04/00

POINT OF COLLECTION.: WATER TANK

| TEMPERATURE (°C) | 24.2 |
|------------------|------|
|------------------|------|

WELL DEPTH (M) 421.

DISCHARGE..... R 7571. LA

PERTINENT LITHOLOGY..... DEEP CO

WATER ANALYSIS

PH..... 7.3

CHARGE IMBALANCE (% DIFF) ... 24.1

ANALYSIS IN PPM

AL... CR... N

Au.....
 Cu.....
 0.

2

HA... 0.02H

FE(TOT). 1.

HI... GA...

| | | | |
|-------|------|---------|----|
| CA... | 113. | HCO3... | 25 |
|-------|------|---------|----|

CA+MG.
HG.....N

Cl... 21.

ZN... N

CO..... K..... 1.8
 OTHER ANALYTICAL DATA... H+ = 7.3 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

RECORD 00053

GEOTHERM FILE ID: 0070853

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... PVACD OBSERVATION WELL NO. 4
 WELL/SPRING NUMBER..... 13S-20E-13-222
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE.. PERMIAN BASIN
 MAP REFERENCE..... INDIAN BLUFF 1:62500
 TOWNSHIP=RANGE
 13S 020E 13 NE OF NE OF NE
 B&M: NEW MEXICO PRINCIPAL
 COORDINATES
 LAT/LONG... 33-11.80 N 104-54.37 W

OTHER LOCALITY INFORMATION: GROUND ELEVATION=1378.9 M; 30 MILES S. OF #3

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1975/05/00

TEMPERATURE (C)..... 20.5

WELL DEPTH (M)..... 118.

DISCHARGE..... N

PERTINENT LITHOLOGY..... DEEP UNCONFINED AQUIFER IN "GLORIETA SANDSTONE".

OTHER SAMPLE INFORMATION.. WELL DRILLED DECEMBER 1955.

WATER ANALYSIS

PH..... 7.

CHARGE IMBALANCE (% DIFF)... 20.3

ANALYSIS IN PPM

AL..... CR..... 0.00115 MG... 38.

AU..... CU..... N

B..... F..... 0.4 NA... 40.

HA..... FE (TOT)... 1.4 NH... 214.

HE..... GA..... NH4... 1.8

HI..... HCO3... 232. 0.837

CA..... MG..... N

CA+MG. CL.....

CO..... K..... 0.95

ZN... 0.0044

OTHER ANALYTICAL DATA... H+ = 7.0 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... LEFEBRE, 1977

RECORD 00054

GEOTHERM FILE ID: 0070828

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SMITH WELL

WELL/SPRING NUMBER..... 11S-23E-15-222

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... CHAVES

GEOLOGIC PROVINCE.. PERMIAN BASIN

TOWNSHIP=RANGE

11S 023E 15

NE OF NE OF NE

B&M: NEW MEXICO PRINCIPAL

COORDINATES

LAT/LONG... 33-21.78 N 104-35.78 W

MAP REFERENCE..... ROSWELL SOUTH 1:24000
 OTHER LOCALITY INFORMATION: ELEVATION - 1119.2 M (TOP OF WELL).

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/03/00

TEMPERATURE (C)..... 20.5

WELL DEPTH (M)..... 209.

DISCHARGE..... N

PARENT LITHOLOGY..... AQUIFER IN MULTIPLE FORMATIONS.

OTHER SAMPLE INFORMATION.. WELL DRILLED NOV.. 1965.

WATER ANALYSIS

PH..... 7.4

CHARGE IMBALANCE (% DIFF).... 23.1

ANALYSIS IN PPM

AL..... CR..... N MG... 73.

AR..... CU..... N NA... 58.

BA..... 0.035

BE..... FE(TOT). 0.05 NB... S04... 540.

BI..... GA..... NH4... SR... 2.2

CA..... 200. HCO3... N

CC... Hg..... N PB... N

CL..... 124. K..... 1.4 ZN... N

CO.....

OTHER ANALYTICAL DATA... H+ = 7.4 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... LEFERRE, 1977

RECORD 00055

GEOTHERM FILE 101 0070829

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SMITH WELL

WELL/SPRING NUMBER..... 11S-23E-15-222

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... CHAVES

GEOLOGIC PROVINCE.. PERMIAN BASIN

MAP REFERENCE..... ROSWELL SOUTH 1:24000

OTHER LOCALITY INFORMATION: ELEVATION = 1119.2 M (TOP OF WELL).

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/07/00

TEMPERATURE (C)..... 22.

WELL DEPTH (M)..... 209.

DISCHARGE..... N

PARENT LITHOLOGY..... AQUIFER IN MULTIPLE FORMATIONS.

OTHER SAMPLE INFORMATION.. WELL DRILLED NOV. 1965.

WATER ANALYSIS

PH..... 7.4

CHARGE IMBALANCE (% DIFF).... 31.8

ANALYSIS IN PPM

AL..... CR..... N MG... 5.

AR..... CU..... N NA... 54.

BA..... 0

ISOTOPES 10/001

COORDINATES

LAT/LONG... 33-21.78 N 104-35.78 W

ISOTOPES 10/001

HE.....
 HI.....
 CA..... 140.
 CA+MG.....
 CL..... 79.
 CO.....
 FE(TOT)..... N
 GA.....
 HCO3..... 0.0032 N
 HG..... N
 K..... 1.3
 NH4.....
 NO3..... N
 PB..... N
 SO4..... 540.
 SR..... N
 ZN..... N

OTHER ANALYTICAL DATA... H+ = 7.4 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFERRE, 1977

RECORD 00056
 GEOTHERM FILE ID: 0070830

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... SOUTH SPRING - LINCOLN WELL
 WELL/SPRING NUMBER..... 11S-24E-23-443

COORDINATES
 LAT/LONG... 33-20.13 N 104-28.32 W
 TOWNSHIP-RANGE
 11S 024E 23
 SW OF SE OF SE
 B&M: NEW MEXICO PRINCIPAL

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE... PERMIAN BASIN
 MAP REFERENCE..... SOUTH SPRING 1124000
 OTHER LOCALITY INFORMATION: ELEVATION = 1090.5 M (TOP OF WELL).
 SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/03/00
 TEMPERATURE (C)..... 20.
 WELL DEPTH (M)..... 163.
 DISCHARGE..... R 4920. L/MIN

PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("PROSWELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".
 OTHER SAMPLE INFORMATION... WELL DRILLED APRIL 1928.
 WATER ANALYSIS

PH..... 7.2
 CHARGE IMBALANCE (% DIFF)... 33.5

ISOIOPES 10/001

ANALYSIS IN PPM
 AL.....
 AR.....
 BA..... 0.035
 BE.....
 HI.....
 CA..... 220.
 CA+MG.....
 CL..... 108.
 CO.....
 CR..... N
 CU..... N
 F..... N
 GA.....
 HCO3..... 0.0054 N
 HG..... N
 K..... 1.5
 MG..... 103.
 NA..... 53.
 NH4.....
 NO3..... N
 PB..... N
 SO4..... 602.
 SR..... 2.6
 ZN..... N

OTHER ANALYTICAL DATA... H+ = 7.2 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFERRE, 1977

RECORD 00057
 GEOTHERM FILE ID: 0070819

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... SIENGRUF (ELK WELL)
 WELL/SPRING NUMBER..... 10S-25E-22-324

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE.. PERMIAN BASIN
 MAP REFERENCE..... BITTER LAKE 1124000
 OTHER LOCALITY INFORMATION: ELEV. 1112.5 M 1 EAST SIDE OF PECOS (ROSWELL).
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1974/03/00
 TEMPERATURE (C)..... 19.5
 WELL DEPTH (M)..... 198.
 DISCHARGE..... R 3785. L/MIN
 OTHER SAMPLE INFORMATION.. WELL DRILLED 1961.
 WATER ANALYSIS

PH..... 9.2
 CHARGE IMBALANCE (% DIFF).... 22.1
 ANALYSIS IN PPM
 AL.....
 AU.....
 BA.....
 HA..... 0.053
 HE.....
 HI.....
 CA..... 338.
 CA+MG.....
 CL..... 3100.
 CO.....
 CR..... N
 CU..... 0.0135
 F..... N
 FE(TQT)..... 0.21
 GA.....
 HC03..... 7.0
 HG..... N
 K..... 8.5
 MG..... 86.
 NA..... 1550.
 NH.....
 NH4.....
 NO3..... N
 PB..... N
 S04..... 1300.
 SR..... 8.5
 ZN..... N

OTHER ANALYTICAL DATA... H+ = 9.2 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

ISOTOPES (0/001)

RECORD 00058

GEOTHERM FILE ID: 0070801

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... T. CORN RANCH HOUSE WINDMILL
 WELL/SPRING NUMBER..... 075-22E-26-131
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE.. PERMIAN BASIN
 MAP REFERENCE..... ROCKHOUSE CANYON 1124000
 OTHER LOCALITY INFORMATION: ELEV. 1271. M (TOP OF WELL).
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1975/05/00
 TEMPERATURE (C)..... 22.
 WELL DEPTH (M)..... 198.
 DISCHARGE..... L 3.8 L/MIN
 PERTINENT LITHOLOGY..... DEEP UNCONFINED AQUIFER IN "SAN ANDRES LIMESTONE".
 WATER ANALYSIS

PH..... 7.1
 CHARGE IMBALANCE (% DIFF).... 13.8
 ANALYSIS IN PPM
 AL.....
 BA.....
 CA..... 0.00145
 MG..... 102.
 PH.....
 SR.....
 ZN.....

ISOTOPES (0/001)

COORDINATES
 LAT/LONG... 33-25.72 N 104-23.42 W
 B&M: NEW MEXICO PRINCIPAL

COORDINATES
 LAT/LONG... 33-41.02 N 104-41.93 W
 B&M: NEW MEXICO PRINCIPAL

AL.....
 H.....
 HA..... 0.03
 HE.....
 HI.....
 CA..... 302.
 CA+MG.....
 CL..... 285.
 CO.....
 OTHER ANALYTICAL DATA... H+ = 7.1 PPM;
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

RECORD 00059
 GEOTHERM SAMPLE-FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL
 WELL/SPRING NUMBER..... 105-24E-22-114
 LOCATION

GEOTHERM FILE ID: 0070818

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE... PERMIAN BASIN
 MAP REFERENCE..... ROSWELL NORTH 1:24000
 OTHER LOCALITY INFORMATION: ELEV. 1688.1 M (TOP OF WELL).
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1973/03/00
 TEMPERATURE (C)..... 20.
 WELL DEPTH (M)..... 82.
 PERTINENT LITHOLOGY..... AQUIFER IN ARTESIA GROUP.

COORDINATES

LAT/LONG... 33-26.12 N 104-30.12 W
 SE OF NW OF NW
 B6M: NEW MEXICO PRINCIPAL

ISOTOPES 10/001

PH..... 7.
 CHARGE IMBALANCE (% DIFF)... 14.6
 ANALYSIS IN PPM
 AL.....
 AU.....
 H.....
 HA..... N
 HE.....
 HI.....
 CA..... 331.
 CA+MG.....
 CL..... 1225.
 CO.....
 OTHER ANALYTICAL DATA... H+ = 7.0 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

CR..... N
 CU.....
 F..... N
 FE(TOT)... N
 GA.....
 HCO3..... 0.0049 N
 HG..... N
 K..... 3.3
 NA.....
 NH4.....
 NO3..... N
 PB..... N
 SR..... N
 ZN..... N

RECORD 00060
 GEOTHERM SAMPLE-FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL
 WELL/SPRING NUMBER..... 105-24E-22-114
 LOCATION

GEOTHERM FILE ID: 0070843

RECORD 00063

GEOTHERM FILE ID: 0070849

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... WHEELER WELL
 WELL/SPRING NUMBER..... 11S-25E-29-444
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE... PERMIAN BASIN
 MAP REFERENCE..... SOUTH SPRING 1:24000
 OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1072.9 M.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1973/03/00
 TEMPERATURE (C)..... 20.
 WELL DEPTH (M)..... 242.
 DISCHARGE..... R 4542. L/MIN

OTHER SAMPLE INFORMATION.. WELL DRILLED FEB., 1928.
 WATER ANALYSIS

PH..... 7.4
 CHARGE IMBALANCE (% DIFF)... 28.4
 ANALYSIS IN PPM

| | | | |
|--------------|------------|---------|-----|
| AL..... | CR..... N | MG... | 69. |
| AU..... | CU..... N | | |
| H..... | F..... N | NA... | 96. |
| HA..... N | FE(101) N | NB... | |
| HE..... | GA..... | NH4... | |
| HI..... | HC03.... | NO3.. N | |
| CA..... 179. | CA+MG... | PB... | |
| CL..... 190. | | | |
| CO..... | K..... 2.1 | | |

OTHER ANALYTICAL DATA... H+ = 7.4 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFERRE, 1977

ISOTOPES 10/01

RECORD 00064

GEOTHERM FILE ID: 0070847

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... WHEELER WELL
 WELL/SPRING NUMBER..... 11S-25E-28-333
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE... PERMIAN BASIN
 MAP REFERENCE..... SOUTH SPRING 1:24000
 OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1072.6 M.

SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1973/03/00
 TEMPERATURE (C)..... 20.
 WELL DEPTH (M)..... 46.
 DISCHARGE..... N

ISOTOPES 10/01

PERTINENT LITHOLOGY..... SHALLOW UNCONFINED AQUIFER IN THE "ARTESIA GROUP".
OTHER SAMPLE INFORMATION.. WELL DRILLED JUNE, 1949.

WATER ANALYSIS

PH..... 7.25

CHARGE IMBALANCE (% DIFF).... 22.6

ANALYSIS IN PPM

AL..... CR..... N 208.

AU..... CU..... N

H..... F..... N 240.

BA..... 0.0083

FE..... 0.1

GA..... NH.....

HI..... NH.....

CA..... HCO3..... N

CA-MG..... Hg..... N

CL..... 372.

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

OTHER ANALYTICAL DATA... H+ = 7.25 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... LEFEBRE, 1977

ISOLOPES 10/001

ZN... N

COORDINATES

SHIP-RANGE 11S 025E 28 SW OF SW OF SW

B&M; NEW MEXICO PRINCIPAL

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... CHAVES

GEOLOGIC PROVINCE... PERMIAN BASIN

MAP REFERENCE..... SOUTH SPRING 1:24000

OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1072.6 M.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1976/07/00

TEMPERATURE (C)..... 17.5

WELL DEPTH (M)..... 46.

DISCHARGE..... N

PERTINENT LITHOLOGY..... SHALLOW UNCONFINED AQUIFER IN THE "ARTESIA GROUP".

OTHER SAMPLE INFORMATION.. WELL DRILLED JUNE, 1949.

WATER ANALYSIS

PH..... 7.2

CHARGE IMBALANCE (% DIFF).... 14.4

ANALYSIS IN PPM

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

H..... F.....

HE..... FE.....

CA..... HCO3.....

CL..... 320.

CO..... K..... 1.7

OTHER ANALYTICAL DATA... H+ = 7.2 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... LEFEBRE, 1977

ISOLOPES 10/001

MO... 17.

NA... 230.

NB...

HCO3..... 0.004

CL..... 320.

CO..... K..... 1.7

OTHER ANALYTICAL DATA... H+ = 7.2 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... LEFEBRE, 1977

MO... 17.

NA... 230.

HCO3..... 0.004

CL..... 320.

CO..... K..... 1.7

OTHER ANALYTICAL DATA... H+ = 7.2 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... LEFEBRE, 1977

RECORD 00065

GEOTHERM FILE ID: 0070848

RECORD 00066

GEOTHERM FILE ID: 0070822

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... WINDMILL

WELL/SPRING NUMBER..... 11S-20E-15-111

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... CHAVES

GEOLOGIC PROVINCE... PERMIAN BASIN

MAP REFERENCE..... HORSESHOE BEND 1:62500

OTHER LOCALITY INFORMATION: ELEV 1399.6M (TOP OF WELL); ON SECTION LINE BETWEEN NE CORNER SEC 16 AND NW CORNER SEC 15,

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1975/01/00

TEMPERATURE (C)..... 20.

DISCHARGE..... L 3.8 L/MIN

PERTINENT LITHOLOGY..... DEEP UNCONFINED AQUIFER ("ROSSELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".

WATER ANALYSIS

PH..... 7.1

CHARGE IMBALANCE (% DIFF)... 6.5

ANALYSIS IN PPM

AL.....

AU.....

H.....

BA..... N

HE.....

HI.....

CA..... 220.

CA+MG.....

CL..... 35.

CO.....

OTHER ANALYTICAL DATA... H+ = 7.1 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... LEFEBRE, 1977

ISOTOPE 10/001

MG... 31.

NA... 32.

NB... 720.

NH4... 2.

NO3... 6.9

PR... N

S04... 720.

SR... 2.

ZN... N

RECORD 00067

GEOTHERM FILE ID: 0070821

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... WINDMILL

WELL/SPRING NUMBER..... 11S-20E-15-111

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... CHAVES

GEOLOGIC PROVINCE... PERMIAN BASIN

MAP REFERENCE..... HORSESHOE BEND 1:62500

OTHER LOCALITY INFORMATION: ELEV 1399.6M (TOP OF WELL); ON SECTION LINE BETWEEN NE CORNER SEC 16 AND NW CORNER SEC 15,

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1975/07/00

TEMPERATURE (C)..... 22.7

DISCHARGE..... L 3.8 L/MIN

COORDINATES

LAT/LONG... 33-21.67 N 104-56.35 W

NW OF NW OF NW

B6M: NEW MEXICO PRINCIPAL

PERTINENT LITHOLOGY..... DEEP UNCONFINED AQUIFER ("ROSSELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".

WATER ANALYSIS

PH..... 7.5

CHARGE IMBALANCE (% DIFF) ... 177.8

ANALYSIS IN PPM

| | | | | | |
|---------|-----------|--------|--------|-------|-----|
| AL..... | CR..... | 0.0024 | MG... | 63. | |
| AU..... | CU..... | 0.001 | NA... | 40. | |
| B..... | F..... | 5000. | | | |
| BA..... | | 0.015 | | | |
| BE..... | FE(TOT). | 6.3 | NB... | 550. | |
| BI..... | GA..... | | NH4... | SR... | 2.2 |
| CA..... | HC03..... | 204. | NO3... | 6.3 | |
| CA+MG. | HG..... | | PB... | 0.011 | |
| CL..... | | 46. | | | |
| CO..... | K..... | | ZN... | 0.08 | |

OTHER ANALYTICAL DATA... H+ = 7.5 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

RECORD 00068

GEOTHERM FILE ID: 0070820

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... WINDMILL

WELL/SPRING NUMBER..... 11S-20E-15-111

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... CHAVES

GEOLOGIC PROVINCE... PERMIAN BASIN

MAP REFERENCE..... HORSESHOE BEND 1162500

OTHER LOCALITY INFORMATION: ELEV 1399.6M (TOP OF WELL) ON SECTION LINE BETWEEN NE CORNER SEC 16 AND NW CORNER SEC 15,

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1975/05/00

TEMPERATURE (C)..... 20.5

DISCHARGE..... L 3.8 L/MIN

PERTINENT LITHOLOGY.....

DEEP UNCONFINED AQUIFER ("ROSSELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".

WATER ANALYSIS

PH..... 6.8

CHARGE IMBALANCE (% DIFF) ... 20.7

ANALYSIS IN PPM

| | | | | | |
|---------|-----------|---------|--------|--------|-----|
| AL..... | CR..... | 0.0038 | MG... | 98. | |
| AU..... | CU..... | 0.00125 | NA... | 55. | |
| B..... | F..... | | | | |
| BA..... | | 0.048 | | | |
| BE..... | FE(TOT). | 12. | NB... | 700. | |
| BI..... | GA..... | | NH4... | SR... | 1.7 |
| CA..... | HC03..... | 149. | NO3... | 14. | |
| CA+MG. | HG..... | | PB... | 0.0024 | |
| CL..... | | 52. | | | |
| CO..... | K..... | | ZN... | 0.094 | |

OTHER ANALYTICAL DATA... H+ = 6.8 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

ISOTOPES (0/001)

ISOTOPES (0/001)

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE... LEFEBRE, 1977

RECORD 00069

GEOTHERM FILE ID: 0070823

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... WOOD'S RANCH WINDMILL
WELL/SPRING NUMBER... 11S-22E-18-112

LOCATION

COUNTRY... UNITED STATES
STATE... NEW MEXICO
COUNTY... CHAVES

GEOLOGIC PROVINCE... PERMIAN BASIN

MAP REFERENCE... DIAMOND A RANCH 1:24000

OTHER LOCALITY INFORMATION: WINDMILL IS WEST OF WOOD'S RANCH; ELEV. 1219.2 M (TOP OF WELL).

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1975/05/00

TEMPERATURE (C)... 21.

DISCHARGE... L 3.8 L/MIN

PERTINENT LITHOLOGY... DEEP UNCONFINED AQUIFER ("HOSWELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".

WATER ANALYSIS

PH... 6.9

CHARGE IMBALANCE (% DIFF)... 1.8

ANALYSIS IN PPM

AL... CR... 0.0165 MG... 80.

AU... CU... 0.0041 NA... 80.

H... F... 0.7

HA... 0.046

HE... FE(TOT)... 5.8

HI... GA... NH... 610.

CA... HCO3... 199.

CA+MG... MG... 0.015

CL... 165.

CO... K... 1.3

OTHER ANALYTICAL DATA... H+ = 6.9 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE... LEFEBRE, 1977

ISOTOPES 10/001

RECORD 00070

GEOTHERM FILE ID: 0070824

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... WOODS RANCH WINDMILL
WELL/SPRING NUMBER... 11S-22E-9-321

LOCATION

COUNTRY... UNITED STATES
STATE... NEW MEXICO
COUNTY... CHAVES

GEOLOGIC PROVINCE... PERMIAN BASIN

MAP REFERENCE... HONDO RESERVOIR 1:24000

OTHER LOCALITY INFORMATION: ELEVATION 1205.2 M (TOP OF WELL).

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1974/03/00

TEMPERATURE (C)... 20.

WELL DEPTH (M)... 133.

COORDINATES

LAT/LONG... 33-22.30 N 104-43.95 W

DISCHARGE..... L 3.8 L/MIN
 PERTINENT LITHOLOGY..... DEEP UNCONFINED AQUIFER ("KUSWELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".
 OTHER SAMPLE INFORMATION... WELL IS AT NON-PRODUCTION WINDMILL.
 WATER ANALYSIS

PH..... N
 ANALYSIS IN PPM
 ISOLOPES 10/001

| | | | | |
|---------|-----------|-------|--------|------|
| AL..... | CR..... | N | MG... | 46. |
| AU..... | CU..... | 0.005 | NA... | 56. |
| HA..... | F..... | N | | |
| HE..... | | 0.022 | | |
| HI..... | FE(TOT). | 0.05 | NB... | 430. |
| CA..... | GA..... | | NH4... | 2. |
| CA+MG. | HCO3..... | N | NO3... | N |
| CL..... | HG..... | N | PR... | N |
| CO..... | K..... | 1.4 | ZN... | N |

OTHER ANALYTICAL DATA... H+ = 0.0 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

RECORD 00071

GEOTHERM FILE ID: 0001636

GEOTHERM_SAMPLE_FILE

NAME OF SAMPLE SOURCE... FEDERAL "H" NO. 1 WELL
 WELL/SPRING NUMBER..... 285-02W-24-213

TOWNSHIP-RANGE

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... DONA ANA
 GEOLOGIC PROVINCE.. 26

COORDINATES

SW OF NW OF NE
 LAT/LONG... 31-51.6 N 107-01.8 W
 B6M: NEW MEXICO PRINCIPAL

MAP REFERENCE..... MT RILEY 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 45.

WELL DEPTH (M)..... 2239.1
 DISCHARGE..... 1892.7 L/MIN

PERTINENT LITHOLOGY..... WATER PUMPED FROM A LIMESTONE OF CRETACEOUS AGE.
 OTHER SAMPLE INFORMATION.. OIL TEST WELL; ZONE OF THERMAL WATER (TEMP OF 45C) FROM -205.7M TO -207.3 M BELOW GROUND
 SURFACE TEMP AT -1167.7M RECORDED AS 44.4C (BY ELECTRIC LOG); BOTTOM HOLE TEMP OF 70C (BY ELECTRIC LOG). ONE
 OBSERVER NOTED DISCHARGE TEMPS TO H2O; WATER CONTAMINATED WITH DRILLING MUD AND ADDITIVES.

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

RECORD 00072

GEOTHERM FILE ID: 0001641

GEOTHERM_SAMPLE_FILE

NAME OF SAMPLE SOURCE... LOS ALTURAS ESTATES - EMMETT NATIONS WELL
 WELL/SPRING NUMBER..... 285-02E-34-000

TOWNSHIP-RANGE

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... DONA ANA
 GEOLOGIC PROVINCE.. 26

COORDINATES

32-16.8 N 106-42.3 W
 LAT/LONG...

MAP REFERENCE..... TORTUGAS MTN 1124000
 OTHER LOCALITY INFORMATION: LOWER "RIO GRANDE BASIN".

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1966/02/06

TEMPERATURE (C)..... 45.1

WELL DEPTH (M)..... 108.2

DISCHARGE.....

OTHER SAMPLE INFORMATION.. WELL DRILLED 1964/05/00; FIVE WELLS IN 0.5 KM2 AREA; MAX DEPTH 108M; ANALYSIS FROM WELL 5.

WATER ANALYSIS

PH..... 8.07

SPECIFIC CONDUCTANCE..... 2400.

TOTAL DISSOLVED SOLIDS..... 0 1983.

CHARGE IMBALANCE (% DIFF).... 16.1

ANALYSIS IN PPM

| | | | | |
|---------|------------|-------|--------------|--------|
| AG..... | CO3..... | N | LI.... | 0.46 |
| AL..... | CR..... | | MG.... | 32. |
| AS..... | CS..... | | MN.... | 0.15 |
| AU..... | CU..... | | MU.... | |
| B..... | F..... | 1.62 | SE.... | 0.0025 |
| BR..... | FE(TOT)... | 0.1 | SI02.. | 68. |
| CA..... | | | S04... | 223. |
| CD..... | HC03..... | 348. | | |
| CL..... | H2S..... | | PO4... 0.032 | |
| CO..... | I..... | 0.035 | | |
| | K..... | 55. | | |

OTHER ANALYTICAL DATA... NO2 = 0.0033 PPM.
 QUALIFICATION FIELD... DISSOLVED SOLIDS AS RESIDUE.

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... SUMMERS, 1976

RECORD 00073

GEOTHERM FILE ID: 0000673

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... RADIUM HOT SPRINGS WELL

WELL/SPRING NUMBER..... 21S-01W-10-210

LOCATION

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... DONA ANA
 GEOLOGIC PROVINCE.. OROGRANDE BASIN

MAP REFERENCE..... SAN DIEGO MTN 1162500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 52.0

OTHER SAMPLE INFORMATION.. RESULT: ORIGINAL SPRINGS ARE DRY; WATER IS FROM A PUMPED WELL USED BY THE RESORT

WATER ANALYSIS

PH..... 7.13

ALKALINITY..... AS HC03

TOTAL DISSOLVED SOLIDS... 3857.

CHARGE IMBALANCE (% DIFF).... 0.6

ANALYSIS IN MG/L

| | | | | | |
|---------|----------|--------|--------|--------|--------|
| AG..... | CO3..... | | LI.... | 1.2 | S.... |
| AL..... | CR..... | | MG.... | 15. | S04... |
| AS..... | CS..... | 0.1 | MN.... | L 0.02 | |
| AU..... | CU..... | L 0.01 | | | |

ISOIOPES 10/001

DEL D OF WATER..... -74.6
 DEL O(18) OF WATER... -9.06

COORDINATES

LAT/LONG... 32-30.08 N 106-55.90 W
 UTM ZONE... +13
 NORTHING... 3597302.
 319149.

B..... 0.68 F..... 4.8 NA.... 1100. SI02. 78.
 HE..... FE(TOT). L 0.02 NB.... S04.. 260.
 HI..... GA..... NH4... L 0.1
 HR..... GE..... NI.... 0.02
 CA..... 1.2 HCO3.... 414.
 CA+MG. 120. HG..... L 0.0001
 CL.... 1650. I..... L 0.1
 CO..... K..... 160. RH.... 1.3 ZN.... 0.08
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... TESHIN, VICIOR
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... MARINER AND OTHERS, 1977A

RECORD 00074

GEOTHERM FILE ID: 0001640

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL
 WELL/SPRING NUMBER..... 23S-01W-02-432
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... DONA ANA
 GEOLOGIC PROVINCE.. 26
 MAP REFERENCE..... LAS CRUCES 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1955/02/19
 TEMPERATURE (C)..... 32.2
 WELL DEPTH (M)..... 366.
 DISCHARGE..... 50. L/MIN

COORDINATES
 LAT/LONG... 32-15.30 N 106-58.58 W
 NE OF SW OF SE
 86M: NEW MEXICO PRINCIPAL

WATER ANALYSIS
 PH..... 8.6
 SPECIFIC CONDUCTANCE..... 4640.
 TOTAL DISSOLVED SOLIDS... 2930.
 ANALYSIS IN PPM
 AL..... CR..... 1.1 MG.... SI02. 19.
 H..... F..... NA.... 928.
 HA..... FE+3.... 0.02 NB.... S04.. 927.
 HE..... FE(TOT). 0.02 NO3.. 3.3
 CA..... 110. HCO3.... 27.
 CL.... 910.

ISOIOPES 10/001

QUALIFICATION FIELD..... HCO3 INCLUDES EQUIVALENT OF 14 PPM CO3.

REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... HOOD AND KISTER, 1962

RECORD 00075

GEOTHERM FILE ID: 0001637

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL
 WELL/SPRING NUMBER..... 26S-03E-02-000
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... DONA ANA
 GEOLOGIC PROVINCE.. 25

COORDINATES
 LAT/LONG... 32-04.8 N 107-36.6 W
 NE OF SW OF SE
 86M: NEW MEXICO PRINCIPAL

MAP REFERENCE..... ANTHONY 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1963/11

TEMPERATURE (C)..... 35.6

WELL DEPTH (M)..... 220.

DISCHARGE.....

OTHER SAMPLE INFORMATION.. WELL DRILLED 1967.

WATER ANALYSIS

PH..... 7.5

SPECIFIC CONDUCTANCE..... 1800.

TOTAL DISSOLVED SOLIDS... 0 1020.

ANALYSIS IN PPM

AG..... 58.

AL.....

AS.....

CA..... 11.2

CL..... 401.

CO..... 15.

QUALIFICATION FIELD..... 105 AS RESIDUE.

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... SUMMERS, 1976

ISOLOPES 10/2001

375. 504.. 168.

RECORD 00076

GEOTHERM FILE ID: 0001639

COORDINATES

LAT/LONG... 32-16.8 N 107-01.2 W

IDENTIFICATION=RANGE

23S 002W 25 NW OF NW OF SE

86M: NEW MEXICO PRINCIPAL

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... DONA ANA

GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... CORRALITOS RANCH 1162500

OTHER LOCALITY INFORMATION: WELL COULD BE IN EITHER SECTION 25 OR SECTION 35.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/01/11 WILSON, CLYDE - USGS

POINT OF COLLECTION.. WATER TAP

TEMPERATURE (C)..... 36.

WELL DEPTH (M)..... 320.

DISCHARGE.....

PERTINENT LITHOLOGY..... WELL IS ON WESTERN MARGIN OF THE "RIO GRANDE STRUCTURAL TROUGH"

OTHER SAMPLE INFORMATION.. SAMPLE ANALYSIS SUSPECT; WATER PASSES THROUGH AN ELEVATED STORAGE TANK (WOOD), A PRESSURE

TANK AND PUMP, AND MORE THAN 100 FT OF PIPE BEFORE ARRIVING AT TAP.

WATER ANALYSIS

PH..... 8.6

SPECIFIC CONDUCTANCE..... 2310.

TOTAL DISSOLVED SOLIDS... 0 1470.

CHARGE IMBALANCE (% DIFF)... 7.2

ANALYSIS IN PPM

AG..... 1.

AL.....

AS.....

CA..... 6.

CL..... 0.02

CO.....

CR.....

CS.....

F.....

FE(TOT)... 24.

HE..... 610.

ISOLOPES 10/2001

0.3 0.03 460. 5102. 24. 504.. 610.

CA.... 23. HCO3.... 47. PU4... 0.06
 CD.... H2S.....
 CL.... 320.
 CO.... K..... 3.2

QUALIFICATION FIELD..... TDS CALCULATED.

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... SUMMERS, 1976

RECORD 00077

 GEOTHERM_SAMPLE_FILE GEOTHERM FILE ID: 0001638

NAME OF SAMPLE SOURCE... WELL

WELL/SPRING NUMBER..... 255-01E-17-111

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... DONA ANA

GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... AFTON 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/07/28

POINT OF COLLECTION.. DISCHARGE POINT

TEMPERATURE (C)..... 31.1

DISCHARGE.....

WATER ANALYSIS

P-1..... 8.2

SPECIFIC CONDUCTANCE..... 778.

TOTAL DISSOLVED SOLIDS... 0.494.

CHARGE IMBALANCE (% DIFF)... 3.5

ANALYSIS IN PPM

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

AL..... CR..... 4.6

AS..... CS..... 0.01

AU..... CU..... 0.006

H..... F..... 0.2

HE..... FE(TOT) 0.01

CA..... HCO3..... 261.

CA+MG..... HG..... 0.0001

CD..... H2S.....

CL..... K..... 14.

CO.....

QUALIFICATION FIELD..... TDS CALCULATED.

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... SUMMERS, 1976

RECORD 00078

 GEOTHERM_SAMPLE_FILE GEOTHERM FILE ID: 0070870

NAME OF SAMPLE SOURCE... HAHES IRRIGATION WELL

WELL/SPRING NUMBER..... 17S-28E-11-4J3

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... DONA ANA

GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... AFTON 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/07/28

POINT OF COLLECTION.. DISCHARGE POINT

TEMPERATURE (C)..... 31.1

DISCHARGE.....

WATER ANALYSIS

P-1..... 8.2

SPECIFIC CONDUCTANCE..... 778.

TOTAL DISSOLVED SOLIDS... 0.494.

CHARGE IMBALANCE (% DIFF)... 3.5

ANALYSIS IN PPM

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

AL..... CR..... 4.6

AS..... CS..... 0.01

AU..... CU..... 0.006

H..... F..... 0.2

HE..... FE(TOT) 0.01

CA..... HCO3..... 261.

CA+MG..... HG..... 0.0001

CD..... H2S.....

CL..... K..... 14.

CO.....

QUALIFICATION FIELD..... TDS CALCULATED.

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... SUMMERS, 1976

RECORD 00078

 GEOTHERM_SAMPLE_FILE GEOTHERM FILE ID: 0070870

NAME OF SAMPLE SOURCE... HAHES IRRIGATION WELL

WELL/SPRING NUMBER..... 17S-28E-11-4J3

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... DONA ANA

GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... AFTON 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/07/28

POINT OF COLLECTION.. DISCHARGE POINT

TEMPERATURE (C)..... 31.1

DISCHARGE.....

WATER ANALYSIS

P-1..... 8.2

SPECIFIC CONDUCTANCE..... 778.

TOTAL DISSOLVED SOLIDS... 0.494.

CHARGE IMBALANCE (% DIFF)... 3.5

ANALYSIS IN PPM

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

AL..... CR..... 4.6

AS..... CS..... 0.01

AU..... CU..... 0.006

H..... F..... 0.2

HE..... FE(TOT) 0.01

CA..... HCO3..... 261.

CA+MG..... HG..... 0.0001

CD..... H2S.....

CL..... K..... 14.

CO.....

QUALIFICATION FIELD..... TDS CALCULATED.

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... SUMMERS, 1976

RECORD 00078

 GEOTHERM_SAMPLE_FILE GEOTHERM FILE ID: 0070870

NAME OF SAMPLE SOURCE... HAHES IRRIGATION WELL

WELL/SPRING NUMBER..... 17S-28E-11-4J3

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... DONA ANA

GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... AFTON 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/07/28

POINT OF COLLECTION.. DISCHARGE POINT

TEMPERATURE (C)..... 31.1

DISCHARGE.....

WATER ANALYSIS

P-1..... 8.2

SPECIFIC CONDUCTANCE..... 778.

TOTAL DISSOLVED SOLIDS... 0.494.

CHARGE IMBALANCE (% DIFF)... 3.5

ANALYSIS IN PPM

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

AL..... CR..... 4.6

AS..... CS..... 0.01

AU..... CU..... 0.006

H..... F..... 0.2

HE..... FE(TOT) 0.01

CA..... HCO3..... 261.

CA+MG..... HG..... 0.0001

CD..... H2S.....

CL..... K..... 14.

CO.....

QUALIFICATION FIELD..... TDS CALCULATED.

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... SUMMERS, 1976

RECORD 00078

 GEOTHERM_SAMPLE_FILE GEOTHERM FILE ID: 0070870

NAME OF SAMPLE SOURCE... HAHES IRRIGATION WELL

WELL/SPRING NUMBER..... 17S-28E-11-4J3

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... DONA ANA

GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... AFTON 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/07/28

POINT OF COLLECTION.. DISCHARGE POINT

TEMPERATURE (C)..... 31.1

DISCHARGE.....

WATER ANALYSIS

P-1..... 8.2

SPECIFIC CONDUCTANCE..... 778.

TOTAL DISSOLVED SOLIDS... 0.494.

CHARGE IMBALANCE (% DIFF)... 3.5

ANALYSIS IN PPM

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

AL..... CR..... 4.6

AS..... CS..... 0.01

AU..... CU..... 0.006

H..... F..... 0.2

HE..... FE(TOT) 0.01

CA..... HCO3..... 261.

CA+MG..... HG..... 0.0001

CD..... H2S.....

CL..... K..... 14.

CO.....

QUALIFICATION FIELD..... TDS CALCULATED.

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... SUMMERS, 1976

RECORD 00078

 GEOTHERM_SAMPLE_FILE GEOTHERM FILE ID: 0070870

NAME OF SAMPLE SOURCE... HAHES IRRIGATION WELL

WELL/SPRING NUMBER..... 17S-28E-11-4J3

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... DONA ANA

GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... AFTON 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/07/28

POINT OF COLLECTION.. DISCHARGE POINT

TEMPERATURE (C)..... 31.1

DISCHARGE.....

WATER ANALYSIS

P-1..... 8.2

SPECIFIC CONDUCTANCE..... 778.

TOTAL DISSOLVED SOLIDS... 0.494.

CHARGE IMBALANCE (% DIFF)... 3.5

ANALYSIS IN PPM

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

AL..... CR..... 4.6

AS..... CS..... 0.01

AU..... CU..... 0.006

H..... F..... 0.2

HE..... FE(TOT) 0.01

CA..... HCO3..... 261.

CA+MG..... HG..... 0.0001

CD..... H2S.....

CL..... K..... 14.

CO.....

QUALIFICATION FIELD..... TDS CALCULATED.

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... SUMMERS, 1976

RECORD 00078

 GEOTHERM_SAMPLE_FILE GEOTHERM FILE ID: 0070870

NAME OF SAMPLE SOURCE... HAHES IRRIGATION WELL

WELL/SPRING NUMBER..... 17S-28E-11-4J3

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... DONA ANA

GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... AFTON 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/07/28

POINT OF COLLECTION.. DISCHARGE POINT

TEMPERATURE (C)..... 31.1

DISCHARGE.....

WATER ANALYSIS

P-1..... 8.2

SPECIFIC CONDUCTANCE..... 778.

TOTAL DISSOLVED SOLIDS... 0.494.

CHARGE IMBALANCE (% DIFF)... 3.5

ANALYSIS IN PPM

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

AL..... CR..... 4.6

AS..... CS..... 0.01

AU..... CU..... 0.006

H..... F..... 0.2

HE..... FE(TOT) 0.01

CA..... HCO3..... 261.

CA+MG..... HG..... 0.0001

CD..... H2S.....

CL..... K..... 14.

CO.....

QUALIFICATION FIELD..... TDS CALCULATED.

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... SUMMERS, 1976

RECORD 00078

STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
COUNTY..... EDDY
GEOLOGIC PROVINCE... PERMIAN BASIN
MAP REFERENCE..... SPRING LAKE 1:24000
OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1010.1 M.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1975/05/00
TEMPERATURE (C)..... 23.0
WELL DEPTH (M)..... 315.
DISCHARGE..... R 3785. L/MIN
PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("ROSSELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".
WATER ANALYSIS
PH..... 7.
CHARGE IMBALANCE (% DIFF)... 5.8
ANALYSIS IN PPM
AL..... CR..... 0.001 MG... 67.
AU..... CU..... N
R..... F..... 0.1 NA... 33.
HA..... 0.028
RE..... FE(TOT). 0.142 NB... 504.. 525.
HI..... GA..... NH4... SR... 2.9
CA..... 200. HCO3... 4.2
CA+MG. HG..... N PB... 0.0083
CL..... 61.
CO..... K..... 1.1 ZN... 0.0038
OTHER ANALYTICAL DATA... H+ = 7.0 PPM.
REFERENCE AND IDENTIFICATION
COMPILED BY..... LAWSON, WILLIAM A
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... LEFEBRE, 1977

RECORD 00079

GEOTHERM FILE ID: 0070869

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... HANES IRRIGATION WELL
WELL/SPRING NUMBER..... 17S-26E-11-433
LOCATION
COUNTRY..... UNITED STATES TOWNSHIP-RANGE
STATE..... NEW MEXICO 17S 02SE 11 SW OF SW OF SE 32-50.63 N 104-20.83 W
COUNTY..... EDDY B&M: NEW MEXICO PRINCIPAL
GEOLOGIC PROVINCE... PERMIAN BASIN
MAP REFERENCE..... SPRING LAKE 1:24000
OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1010.1 M.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1975/03/00
TEMPERATURE (C)..... 22.7
WELL DEPTH (M)..... 315.
DISCHARGE..... R 3785. L/MIN
PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("ROSSELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".
WATER ANALYSIS
PH..... 7.1
CHARGE IMBALANCE (% DIFF)... 185.9
ANALYSIS IN PPM
AL..... CR..... 0.0012 MG... 63.
AU..... CU..... 0.001
R..... F..... 8600. NA... 31.
ISOTOPES 10/001

BA..... 0.03
 BE.....
 BI.....
 CA..... 210.
 CA+MG.....
 CL.....
 CO.....
 FE(TOT)..... 0.1
 GA.....
 HCO3..... 200.
 HG..... N
 K..... 1.5
 NA.....
 NH4.....
 NO3.....
 PB.....
 S04.....
 SR.....
 ZN..... N
 OTHER ANALYTICAL DATA... H+ = 7.1 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

RECORD 00080
 GEOTHERM FILE ID: 0070868

NAME OF SAMPLE SOURCE... MANES IRRIGATION WELL
 WELL/SPRING NUMBER..... 17S-26E-11-433
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... EDDY
 GEOLOGIC PROVINCE... PERMIAN BASIN
 MAP REFERENCE..... SPRING LAKE 1:24000
 OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1010.1 M.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1973/07/00
 TEMPERATURE (C)..... 23.0
 WELL DEPTH (M)..... 315.
 DISCHARGE..... R 3785. L/MIN
 PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("ROSSELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".

COORDINATES
 LAT/LONG... 32-50.63 N 104-20.83 W
 ISOTOPES 10/001
 ANALYSIS IN PPM
 AL.....
 AR.....
 AS.....
 BA..... 0.029
 BE.....
 BI.....
 CA..... 226.
 CA+MG.....
 CL.....
 CO.....
 CR.....
 CU.....
 F.....
 GA.....
 HCO3.....
 HG.....
 K.....
 NA.....
 NH4.....
 NO3.....
 PB.....
 S04.....
 SR.....
 ZN..... N
 OTHER ANALYTICAL DATA... H+ = 7.3 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

RECORD 00081
 GEOTHERM FILE ID: 0070862

NAME OF SAMPLE SOURCE... HOPE MUNICIPAL WELL
 WELL/SPRING NUMBER..... 17S-2JE-30-114

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... EDU
 GEOLOGIC PROVINCE..... PERMIAN BASIN
 MAP REFERENCE..... HOPE 1:24000
 OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1245.1 M.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1973/07/00
 TEMPERATURE (C)..... 20.
 WELL DEPTH (M)..... 183.
 DISCHARGE..... R 189. L/MIN
 PERTINENT LITHOLOGY..... AQUIFER IN SAN ANDRES LIMESTONE.
 WATER ANALYSIS
 PH..... 7.48
 CHARGE IMBALANCE (% DIFF).... 91.2
 ANALYSIS IN PPM
 AL.....
 AU.....
 H.....
 BA..... 0.018
 HE.....
 NI.....
 CA..... 159.
 CA+MG.....
 CL..... 40.
 CO.....
 OTHER ANALYTICAL DATA... H+ = 7.48 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

COORDINATES
LAT/LONG... 32-48.58 N 104-44.10 W

TOWNSHIP-RANGE
17S 023E 30
B&M: NEW MEXICO PRINCIPAL

ISOLOPES 102001

MG... 126.
NA... 135.
NB... 382.
NH... 1.8
ND... N
PB... N
ZN... N

RECORD 00082

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... MENEFEE IRRIGATION WELL
 WELL/SPRING NUMBER..... 17S-26E-29-111
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... EDU
 GEOLOGIC PROVINCE..... PERMIAN BASIN
 MAP REFERENCE..... ARTESIA 1:24000
 OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1036.3 M.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1975/05/00
 TEMPERATURE (C)..... 22.
 WELL DEPTH (M)..... 344.
 DISCHARGE..... R 1785. L/MIN
 PERTINENT LITHOLOGY..... DEEP UNCONFINED AQUIFER ("ROSSELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".
 OTHER SAMPLE INFORMATION.. WELL DRILLED 1951.
 WATER ANALYSIS
 PH..... 7.2
 ANALYSIS IN PPM
 AL.....
 CR..... 0.00133
 MG... 40.

COORDINATES
LAT/LONG... 32-48.75 N 104-24.70 W

TOWNSHIP-RANGE
17S 026E 29
B&M: NEW MEXICO PRINCIPAL

ISOLOPES 102001

GEOTHERM FILE ID: 0070874

AU.....
 H.....
 HA..... 0.025
 HE.....
 HI.....
 CA..... 16d.
 CA+MG.....
 CL..... N
 CO.....
 OTHER ANALYTICAL DATA... H₂ = 7.2 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

RECORD 00083
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... SHARP WELL
 WELL/SPRING NUMBER..... 175-26E-14-211
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... EDU
 GEOLOGIC PROVINCE... PERMIAN BASIN
 MAP REFERENCE..... SPRING LAKE 1:24000
 OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1009.8 M; EAST OF ARTESIA.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1973/07/00
 TEMPERATURE (C)..... 23.6
 WELL DEPTH (M)..... 309.
 DISCHARGE..... M 2771. L/MIN
 PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("ROSSELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".
 OTHER SAMPLE INFORMATION.. WELL DRILLED 1952.

WATER ANALYSIS
 P4.....
 CHARGE IMBALANCE (% DIFF)... 7.3
 ANALYSIS IN PPM
 AL.....
 AU.....
 BA..... 0.037
 HE.....
 HI.....
 CA..... 244.
 CA+MG.....
 CL..... 160.
 CO.....
 OTHER ANALYTICAL DATA... H₂ = 7.3 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

ISOTOPES (0.0001)

CR..... N
 CU..... N
 F..... N
 FE(TOT)... 0.15
 GA.....
 HCO₃..... 0.0036 N
 HG..... N
 K..... 3.7
 NA..... 87.
 NH₄.....
 NO₃..... N
 PB..... N
 S04..... 659.
 SR..... 3.6
 ZN..... N

CO.....
 OTHER ANALYTICAL DATA... H₂ = 7.3 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

CO.....
 OTHER ANALYTICAL DATA... H₂ = 7.3 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

RECORD 00084

GEOOTHERM FILE ID: 0070873

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... SHARP WELL
 WELL/SPRING NUMBER..... 17S-26E-14-211
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... EDDY
 GEOLOGIC PROVINCE... PERMIAN BASIN
 MAP REFERENCE..... SPRING LAKE 1:24000
 OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1009.8 M; EAST OF ARTESIA.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1975/05/00
 TEMPERATURE (C)..... 23.5
 WELL DEPTH (M)..... 309.
 DISCHARGE..... R 2271. L/MIN
 PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("KOSWELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".
 OTHER SAMPLE INFORMATION.. WELL DRILLED 1952.
 WATER ANALYSIS

PH..... 6.9
 CHARGE IMBALANCE (% DIFF)... 8.0
 ANALYSIS IN PPM

| | | TOWNSHIP-RANGE | | COORDINATES | |
|--|-------------|---------------------------|----------------|------------------------|------|
| | | 17S 026E 14 | NW OF NW OF NE | 32-50.50 N 104-21.03 W | |
| | | B&M: NEW MEXICO PRINCIPAL | | | |
| AL..... | CR..... | 0.001 | MG... | 107. | |
| AJ..... | CU..... | N | | | |
| R..... | F..... | 0.1 | NA... | 74. | |
| RA..... | FE (TOT)... | 0.23 | ND... | 504.. | 669. |
| HI..... | GA..... | | NH4... | SR... | 3.5 |
| CA..... | HC03..... | 208. | NO3... | 2.5 | |
| CA+MG. | HG..... | N | PB... | 0.0253 | |
| CL..... | K..... | | | | |
| CO..... | | 1.3 | | | |
| OTHER ANALYTICAL DATA... H+ = 6.9 PPM. | | | | | |
| REFERENCE AND IDENTIFICATION | | | | | |
| COMPILED BY..... LAWSON, WILLIAM A | | | | | |
| COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY | | | | | |
| REFERENCE..... LEFEBRE, 1977 | | | | | |

ISOIOPES (G/DUL)

RECORD 00085

GEOOTHERM FILE ID: 0070872

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... SHARP WELL
 WELL/SPRING NUMBER..... 17S-26E-14-211
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... EDDY
 GEOLOGIC PROVINCE... PERMIAN BASIN
 MAP REFERENCE..... SPRING LAKE 1:24000
 OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1009.8 M; EAST OF ARTESIA.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1974/04/00
 TEMPERATURE (C)..... 23.
 WELL DEPTH (M)..... 309.

PH..... 6.9
 CHARGE IMBALANCE (% DIFF)... 8.0
 ANALYSIS IN PPM

| | | TOWNSHIP-RANGE | | COORDINATES | |
|--|-------------|---------------------------|----------------|------------------------|------|
| | | 17S 026E 14 | NW OF NW OF NE | 32-50.50 N 104-21.03 W | |
| | | B&M: NEW MEXICO PRINCIPAL | | | |
| AL..... | CR..... | 0.001 | MG... | 107. | |
| AJ..... | CU..... | N | | | |
| R..... | F..... | 0.1 | NA... | 74. | |
| RA..... | FE (TOT)... | 0.23 | ND... | 504.. | 669. |
| HI..... | GA..... | | NH4... | SR... | 3.5 |
| CA..... | HC03..... | 208. | NO3... | 2.5 | |
| CA+MG. | HG..... | N | PB... | 0.0253 | |
| CL..... | K..... | | | | |
| CO..... | | 1.3 | | | |
| OTHER ANALYTICAL DATA... H+ = 6.9 PPM. | | | | | |
| REFERENCE AND IDENTIFICATION | | | | | |
| COMPILED BY..... LAWSON, WILLIAM A | | | | | |
| COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY | | | | | |
| REFERENCE..... LEFEBRE, 1977 | | | | | |

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

RECORD 00087

GEOTHERM FILE ID: 0070866

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SULLIVAN WELL
 WELL/SPRING NUMBER..... 17S-26E-10-433

LOCATION

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... EDDY
 GEOLOGIC PROVINCE.. PERMIAN BASIN
 MAP REFERENCE..... SPRING LAKE 1:24000
 OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1018.6 M.

TOWNSHIP-RANGE

17S 026E 10 SW OF SW OF SE
 86M: NEW MEXICO PRINCIPAL

COORDINATES

LAT/LONG... 32-50.60 N 104-22.07 W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1974/04/00

TEMPERATURE (C)..... 23.2

WELL DEPTH (M)..... 334.

DISCHARGE..... R 3218. L/MIN

PERTINENT LITHOLOGY..... AQUIFER IN MULTIPLE FORMATIONS.

WATER ANALYSIS

PH..... 7.2

CHARGE IMBALANCE (% DIFF).... 27.8

ANALYSIS IN PPM

| | | | |
|---------|--|-------|----------|
| AL..... | CR..... N | MG... | 60. |
| AU..... | CU..... | 0.06 | |
| B..... | F..... N | NA... | 22. |
| BA..... | 0.034 | | |
| BE..... | FE(TOT)... | 0.05 | NB... |
| BI..... | GA..... | | NH4... |
| CA..... | HCO3..... | 222. | NO3... N |
| CA+MG. | HG..... N | PB... | N |
| CL..... | 49. | | |
| CO..... | K..... | 1.5 | |
| | OTHER ANALYTICAL DATA... H+ = 7.2 PPM. | | |
| | ZN... N | | |

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

RECORD 00088

GEOTHERM FILE ID: 0070865

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SULLIVAN WELL
 WELL/SPRING NUMBER..... 17S-26E-10-433

LOCATION

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... EDDY
 GEOLOGIC PROVINCE.. PERMIAN BASIN
 MAP REFERENCE..... SPRING LAKE 1:24000
 OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1018.6 M.

TOWNSHIP-RANGE

17S 026E 10 SW OF SW OF SE
 86M: NEW MEXICO PRINCIPAL

COORDINATES

LAT/LONG... 32-50.60 N 104-22.07 W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/07/00
 TEMPERATURE (C)..... 23.8
 WELL DEPTH (M)..... 334.
 DISCHARGE..... R 3218. L/MIN
 PERTINENT LITHOLOGY..... AQUIFER IN MULTIPLE FORMATIONS.
 WATER ANALYSIS

PH..... 7.2
 CHARGE IMBALANCE (% DIFF).... 40.0
 ANALYSIS IN PPM
 AL.....
 AU.....
 H.....
 HA..... 0.027
 HE.....
 HI.....
 CA..... 210.
 CA+MG.....
 CL..... 145.
 CO.....
 CR..... N
 CU..... N
 F..... N
 FE(TOT)..... 0.1
 GA.....
 HC03..... 0.0037 N
 HG..... N
 K..... 3.
 MG..... 139.
 NA..... 52.
 NH.....
 NH4.....
 NO3..... N
 PB..... N
 SR..... 504.. 582.
 ZN..... N

ISOLOPES 10/001

OTHER ANALYTICAL DATA... H+ = 7.2 PPM
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... IEFEBKE, 1977

RECORD 00089

GEOTHERM FILE 101 0070861

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED IRRIGATION WELL
 WELL/SPRING NUMBER..... 165-26E-29-143
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... EDDY
 GEOLOGIC PROVINCE... PERMIAN BASIN
 MAP REFERENCE..... ESPUELA 1:24000
 OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1033. M
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1975/05/00
 TEMPERATURE (C)..... 23.
 WELL DEPTH (M)..... 329.
 DISCHARGE..... R 4921. L/MIN
 PERTINENT LITHOLOGY..... AQUIFER IN SAN ANDRES LIMESTONE.
 WATER ANALYSIS

COORDINATES

LAT/LONG... 32-53.62 N 104-24.42 W

TOWNSHIP-RANGE

16S 026E 29
 B&M: NEW MEXICO PRINCIPAL

PH..... 6.9
 CHARGE IMBALANCE (% DIFF).... 7.7
 ANALYSIS IN PPM
 AL.....
 AU.....
 H.....
 HA..... 0.02
 HE.....
 HI.....
 CA..... 177.
 CA+MG.....
 CL..... 10.
 CR..... 0.0006
 CU..... N
 F..... 0.5
 FE(TOT)..... 0.2
 GA.....
 HC03..... 208.
 HG..... N
 K.....
 MG..... 46.
 NA..... 15.
 NH.....
 NH4.....
 NO3..... 0.062
 PB.....
 SR..... 504.. 415.
 ZN..... N

ISOLOPES 10/001

CO..... K..... 1.1
 OTHER ANALYTICAL DATA... H+ = 6.9 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL
 WELL/SPRING NUMBER..... 16S-26E-20-433
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... EDDY
 GEOLOGIC PROVINCE... PERMIAN BASIN
 MAP REFERENCE..... ESQUELA 1:24000
 OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1029.6 M; FIRST WHITE HOUSE ON NORTH SIDE OF ROAD GOING WEST.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1975/05/00
 TEMPERATURE (C)..... 23.
 WELL DEPTH (M)..... 324.
 DISCHARGE..... R 5299. L/MIN
 PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("ROSSELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".

RECORD 00090
 GEOTHERM FILE ID: 0070860

TOWNSHIP=RANGE
 16S 026E 20 SW OF SW OF SE
 32-54.07 N 104-24.17 W
 COORDINATES
 LAT/LONG...

ISOTOPE 10/001

WATER ANALYSIS
 P1..... 7.
 CHARGE IMBALANCE (% DIFF)... 12.3
 ANALYSIS IN PPM
 AL..... CR..... N MG... 73.
 AU..... CU..... N
 R..... F..... 0.5 NA... 21.
 HA..... 0.026
 HE..... FE(TOT)... 0.2 ND... 504... 506.
 HI..... GA..... NH4... SR... 2.5
 CA..... 191. HCO3... 213. 4.3
 CA+MG... HG..... N PB... 0.0085
 CL..... 20.
 CO..... K..... 1.1
 OTHER ANALYTICAL DATA... H+ = 7.0 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

ZN... 0.022

RECORD 00091
 GEOTHERM FILE ID: 0070863

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL
 WELL/SPRING NUMBER..... 17S-26E-10-332
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... EDDY
 GEOLOGIC PROVINCE... PERMIAN BASIN
 MAP REFERENCE..... SPRING LAKE 1:24000

TOWNSHIP=RANGE
 17S 026E 10 NE OF SW OF SW
 32-50.72 N 104-22.42 W
 COORDINATES
 LAT/LONG...

OTHER LOCALITY INFORMATION: GROUND ELEVATION=1020.5 M; EAST OF ARTESIA.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/07/00

TEMPERATURE (C)..... 21.2

WELL DEPTH (M)..... 85.

DISCHARGE..... R 3785. L/MIN

PERTINENT LITHOLOGY..... AQUIFER IN ALLUVIUM

OTHER SAMPLE INFORMATION.. WELL DRILLED JAN.. 1939.

WATER ANALYSIS

P-1..... 7.3

CHARGE IMBALANCE (% DIFF).... 58.2

ANALYSIS IN PPM

AL..... CR..... N MG... 77.

AU..... CU..... N

BA..... F..... N

HA..... 0.029

HE..... FE(TOT)..... 0.05

HI..... GA..... NH4... 732.

CA..... 233. HCO3..... N

CMg..... 0.0037

CL..... MG..... N

CO..... 160.

OTHER ANALYTICAL DATA... K..... 3.5

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... LEFEBRE, 1977

ISOLOPES 10/001

504... 732.
SR... 3.3

ZN... N

RECORD 00092

GEO THERM FILE 10: 0070864

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL

WELL/SPRING NUMBER..... 17S-26E-10-332

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... EDDY

GEOLOGIC PROVINCE.. PERMIAN BASIN

MAP REFERENCE..... SPRING LAKE 1124000

OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1020.5 M; EAST OF ARTESIA.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1974/04/00

TEMPERATURE (C)..... 20.

WELL DEPTH (M)..... 85.

DISCHARGE..... R 3785. L/MIN

PERTINENT LITHOLOGY..... AQUIFER IN ALLUVIUM.

OTHER SAMPLE INFORMATION.. WELL DRILLED JAN.. 1939.

WATER ANALYSIS

P-1..... 7.4

CHARGE IMBALANCE (% DIFF).... 18.4

ANALYSIS IN PPM

AL..... CR..... N MG... 54.

AU..... CU..... 0.0061

BA..... F..... N

HA..... 0.028

HE..... FE(TOT)..... 0.0001

504... 500.

ISOLOPES 10/001

COORDINATES

LAT/LONG... 32-50.72 N 104-22.42 W

NE OF SW OF SW

B&M; NEW MEXICO PRINCIPAL

HI..... 132. SR... 2.5
 CA+MG..... 197. NH4... N
 HG..... N PB... N
 CL..... 52. ZN... N
 CO..... 1.4

OTHER ANALYTICAL DATA... H+ = 7.4 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

RECORD 00093

GEOTHERM FILE ID: 0070844

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL

WELL/SPRING NUMBER..... 11S-25E-21-333

LOCATION

TOWNSHIP=RANGE

UNITED STATES 11S 02SE 21

SW OF SW OF SW

B&M: NEW MEXICO PRINCIPAL

COUNTRY.....

STATE.....

COUNTY.....

GEOLOGIC PROVINCE... PERMIAN BASIN

MAP REFERENCE..... SOUTH SPRING 1:24000

OTHER LOCALITY INFORMATION: ELEVATION = 1066.8 M (TOP OF WELL).

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1975/07/00

TEMPERATURE (C)..... 21.

WELL DEPTH (M)..... 248.

DISCHARGE..... R 8706. L/MIN

PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("ROSWELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".

WATER ANALYSIS

PH..... 7.35

CHARGE IMBALANCE (% DIFF)... 180.7

ANALYSIS IN PPM

AL..... CR..... N MG... 52.

AU..... CU..... N

BA..... F..... 7900. NA... 228.

HE..... 0.036

HI..... FE(TOT)... 0.66 NB... 375.

CA..... HG..... 209. NH4... 2.8

CA+MG..... N PB... 16.

CL..... 446. ZN... 0.1

CO..... K..... 1.8 ZN... 0.0023

OTHER ANALYTICAL DATA... H+ = 7.35 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... LEFEBRE, 1977

RECORD 00094

GEOTHERM FILE ID: 0070875

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WELL

WELL/SPRING NUMBER..... 18S-26E-10-133

LOCATION

TOWNSHIP=RANGE

UNITED STATES 18S 026E 10

SW OF SW OF NW

COORDINATES

LAT/LONG... 32-45.80 N 104-22.58 W

STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
COUNTY..... EDDY
GEOLOGIC PROVINCE... PERMIAN BASIN
MAP REFERENCE..... SPRING LAKE 1:24000
OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1021.1 M.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1976/01/00
TEMPERATURE (C)..... 22.2
WELL DEPTH (M)..... 335.
DISCHARGE..... R 5678. L/MIN
PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("ROSSELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".
WATER ANALYSIS
PH..... 6.8
ANALYSIS IN PPM
AL..... CR..... 41.
AU..... CU..... 28.
BA..... F..... 28.
HE..... FE (TOT)..... N NB..... 960.
HI..... GA..... NH4..... 7.0
CA..... 280. HC03..... 4.7
CA+MG..... H6..... N PB.....
CL..... 28. ZN..... N
CO..... K..... 0.6
OTHER ANALYTICAL DATA... H+ = 6.8 PPM.
REFERENCE AND IDENTIFICATION
COMPILED BY..... LAWSON, WILLIAM A
COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... LEFEBRE, 1977

RECORD 00095
GEOTHERM FILE ID: 0070877

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... VANDIVER WELL
WELL/SPRING NUMBER..... 185-26E-1B-332
LOCATION
COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... EDDY
GEOLOGIC PROVINCE... PERMIAN BASIN
MAP REFERENCE..... DAYTON 1:24000
OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1044.9 M.
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1975/07/00
TEMPERATURE (C)..... 23.6
WELL DEPTH (M)..... 356.
DISCHARGE..... R 4542. L/MIN
PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("ROSSELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".
WATER ANALYSIS
PH..... 7.1
CHARGE IMBALANCE (% DIFF)... 185.3
ANALYSIS IN PPM
AL..... CR..... 74.
AU..... CU..... N
BA..... F..... 8600.
HA..... 0.0275 NA..... 22.
COORDINATES
LAT/LONG... 32-44.82 N 104-25.55 W
ISOTOPES 10/001

HE.....
 HI.....
 CA.....
 CA*MG.
 CL.....
 CO.....
 OTHER ANALYTICAL DATA... H+ = 7.1 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

FE(TOT). 0.24
 GA.....
 HC03.....
 HG..... N
 K.....
 NH.....
 NH4.....
 NO3.....
 PB.....
 SO4... 625.
 SR... 3.2
 ZN... 0.0076

S04... 625.
 SR... 3.2
 ZN... 0.0076

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... VANDIVER WELL
 WELL/SPRING NUMBER..... 18S-26E-17-322
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... EDDY
 GEOLOGIC PROVINCE... PERMIAN BASIN
 MAP REFERENCE..... DAYTON 1:24000
 OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1036.3 M.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1975/07/00
 TEMPERATURE (C)..... 20.
 WELL DEPTH (M)..... 73.
 DISCHARGE..... R 1173. L/MIN
 PERTINENT LITHOLOGY..... SHALLOW UNCONFINED UPPER ALLUVIUM AQUIFER.
 WATER ANALYSIS
 PH..... 7.1
 CHARGE IMBALANCE (% DIFF)... 180.1
 ANALYSIS IN PPM
 AL.....
 AU.....
 H.....
 BA.....
 HE.....
 HI.....
 CA.....
 CA*MG.
 CL.....
 CO.....
 OTHER ANALYTICAL DATA... H+ = 7.1 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

COORDINATES
 LAT/LONG... 32-44.82 N 104-24.27 W
 TOWNSHIP-RANGE
 18S 026E 17 NE OF NE OF SW
 BSM: NEW MEXICO PRINCIPAL

ISOLOPES (0/001)

CR..... 0.0006
 CU..... N
 F..... 7200.
 NA.....
 FE(TOT). 0.21
 GA.....
 HC03.....
 HG..... N
 K.....
 NH.....
 NH4.....
 NO3.....
 PB.....
 SO4... 712.
 SR... 3.4
 ZN... 0.0048

S04... 712.
 SR... 3.4
 ZN... 0.0048

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... VANDIVER WELL
 WELL/SPRING NUMBER..... 18S-26E-18-411
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... EDDY
 GEOLOGIC PROVINCE... PERMIAN BASIN
 MAP REFERENCE..... DAYTON 1:24000
 OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1036.3 M.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1975/07/00
 TEMPERATURE (C)..... 20.
 WELL DEPTH (M)..... 73.
 DISCHARGE..... R 1173. L/MIN
 PERTINENT LITHOLOGY..... SHALLOW UNCONFINED UPPER ALLUVIUM AQUIFER.
 WATER ANALYSIS
 PH..... 7.1
 CHARGE IMBALANCE (% DIFF)... 180.1
 ANALYSIS IN PPM
 AL.....
 AU.....
 H.....
 BA.....
 HE.....
 HI.....
 CA.....
 CA*MG.
 CL.....
 CO.....
 OTHER ANALYTICAL DATA... H+ = 7.1 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

ISOLOPES (0/001)

CR..... 0.0006
 CU..... N
 F..... 7200.
 NA.....
 FE(TOT). 0.21
 GA.....
 HC03.....
 HG..... N
 K.....
 NH.....
 NH4.....
 NO3.....
 PB.....
 SO4... 712.
 SR... 3.4
 ZN... 0.0048

S04... 712.
 SR... 3.4
 ZN... 0.0048

COORDINATES
 LAT/LONG... 32-44.82 N 104-24.27 W
 TOWNSHIP-RANGE
 18S 026E 18-411

COUNTRY..... UNITED STATES 185 026E 18 NW OF NW OF SE LAT/LONG... 32-44.65 N 104-25.17 W
STATE..... NEW MEXICO BSH: NEW MEXICO PRINCIPAL

COUNTY..... EDDY

GEOLOGIC PROVINCE.. PERMIAN BASIN

MAP REFERENCE..... DAYTON 1:24000

OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1040.6 M.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1975/05/00

TEMPERATURE (C)..... 24

DISCHARGE..... R 3785. L/MIN

PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("ROSSELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".

WATER ANALYSIS

PH..... 7.

CHARGE IMBALANCE (% DIFF)... 7.9

ANALYSIS IN PPM

ISOTOPES 10/001

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

AU..... CU..... N NA... 43.

HA..... F..... 0.4

RE..... FE(TOT)... 0.26 NB... 634.

HI..... GA..... NH4... 2.9

CA..... HCO3... 241. 2.3

CA+MG. HG..... N PB... 0.0083

CL..... 47.

CO..... K..... 1.1 ZN... 0.0031

OTHER ANALYTICAL DATA... H+ = 7.0 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... LEFEBRE, 1977

RECORD 00098

GEOTHERM FILE ID: 0001807

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... ALLEN SPRINGS

WELL/SPRING NUMBER..... 16S-15W-26-421

LOCATION

COUNTRY..... UNITED STATES 16S 015W 26 NE OF NW OF SE LAT/LONG... 32-53.04 N 108-21.48 W

STATE..... NEW MEXICO

COUNTY..... GRANT

GEOLOGIC PROVINCE.. 25

MAP REFERENCE..... READING MOUNTAIN 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... JW-L

TEMPERATURE (C)..... 25.6

WATER ANALYSIS

PH..... 8.12

TOTAL DISSOLVED SOLIDS... 492.

CHARGE IMBALANCE (% DIFF)... 0.9

ANALYSIS IN PPM

ISOTOPES 10/001

AG..... L 0.03 CO3..... N LI... 0.02

AL..... L 2.5 CR..... L 0.1 MG... 38.2

AS..... 0.001 CS..... L 0.07 MN... L 0.07

AU..... CU..... L 0.1 MU... L 0.5

BA..... 0.04 F..... 1.05 NA... 8.3

HA..... L 0.7 SE... 0.003

SI02. 14.5

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... APACHE TEJO WARM SPRINGS - WELL 4
 WELL/SPRING NUMBER... 19S-12W-19-300
 LOCATION
 COUNTRY... UNITED STATES
 STATE... NEW MEXICO
 COUNTY... GRANT
 GEOLOGIC PROVINCE... 25
 MAP REFERENCE... HURLEY WEST 1:24000
 OTHER LOCALITY INFORMATION: EXACT LOCATION IN SECTION 19 UNCERTAIN.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1965
 TEMPERATURE (C)... 36.
 DISCHARGE...
 PERTINENT LITHOLOGY... ALLUVIAL SAND AND GRAVEL; 0 TO -157 FT; "MAGDALENA GROUP" (LIMESTONE AND SHALE); -157 FT TO -775 FT; "LAKE VALLEY LIMESTONE"; -775 FT TO -845 FT; "PERCHA SHALE"; -845 FT TO -1071 FT; "FUSSELMAN" AND "MONTROYA" DOLOMITES, AND "EL PASO LIMESTONE"; -1071 FT TO -2229 FT; "BLISS FORMATION"; -2229 FT TO -2432 FT; PRECAMBRIAN GRANITE BELOW -2432 FT.
 OTHER SAMPLE INFORMATION.. ORIGINAL SPRINGS NO LONGER FLOW BECAUSE OF PUMPAGE FROM WELLS. NET YIELD FROM 3785 TO 11,355 L/MIN. ANALYSIS FROM WELL 4. 504-1972 ANAL.
 WATER ANALYSIS
 pH... 8.43
 SPECIFIC CONDUCTANCE... 520.
 TOTAL DISSOLVED SOLIDS... 370.
 CATION BALANCE (% DIFF)... 8.5
 ANALYSIS IN PPM
 AG... L 0.02
 AL... N
 AS... 0.011
 AU... 0.04
 BA... 0.72
 BE... 34.
 BR... 19.
 CA... L 0.005
 CA+MG...
 CD... 19.
 CL...
 CO...
 CR... L 0.01
 CS...
 CU... 0.02
 F... 2.7
 FE(TOT)... N
 GE...
 HG... 216.
 HCO3... L 0.0002
 H2S...
 I... 0.019
 K... 4.6
 LI... 0.1
 MG... 17.
 MN... 0.31
 MO...
 NA... 48.
 NB...
 NI... L 0.05
 PB... L 0.05
 PO4... N
 SE... 0.028
 SI02... 70.
 SO4...
 SR...
 TH...
 Tl...
 U...
 V...
 W...
 Y...
 ZN... 0.11

RECORD 00099
 GEOTHERM FILE ID: 0001632
 COORDINATES
 LAT/LONG... 32-38.6 N 108-07.7 W

ISOLUPES 10/0001

OTHER ANALYTICAL DATA... NO2 = 0; HEAVY METALS (CU,CD,CR,PB,HG,AG,ZN,AND NI) ANALYSIS FROM 1972/05/17 SAMPLE.

QUALIFICATION FIELD..... CHEMISTRY IS A COMPOSITE OF ANALYSES

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... ASH SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... GRANT
 GEOLOGIC PROVINCE.. 25
 MAP REFERENCE..... CIRCLE MESA 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 22.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R. & BROOK, C.
 REFERENCE..... BERRY AND OTHERS, 1980

TOWNSHIP-RANGE

COORDINATES
 LAT/LONG... 32-49.26 N 108-24.48 W

RECORD 00100

GEOTHERM FILE ID: 0001809

RECORD 00101

GEOTHERM FILE ID: 0001620

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... CLIFF WARM SPRING
 WELL/SPRING NUMBER..... 155-17W-30-222
 LOCATION

TOWNSHIP-RANGE

COORDINATES
 LAT/LONG... 32-58.45 N 108-37.75 W

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... GRANT
 GEOLOGIC PROVINCE.. 25
 MAP REFERENCE..... CLIFF 1124000
 OTHER LOCALITY INFORMATION: NORTHWEST OF "CLIFF" ALONG HIGHWAY 260.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1955/09/14
 TEMPERATURE (C)..... 25.
 DISCHARGE..... 113.6 L/MIN
 PERTINENT LITHOLOGY..... GILA CONGLOMERATE.

WATER ANALYSIS

PH..... 8.7
 SPECIFIC CONDUCTANCE..... 256.
 ANALYSIS IN MG/L
 AG..... 14.
 CA..... 123.
 CL..... 5.2

ISOPIES 10/1001

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... TRAUGER, 1972

RECORD 00102

GEOTHERM FILE ID: 0002957

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... EAST FORK GILA RIVER - UNNAMED HOT SPRING
 WELL/SPRING NUMBER..... 13S-013W-10-200

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... GRANT
 GEOLOGIC PROVINCE.. 25
 MAP REFERENCE..... GILA HOT SPRINGS 1124000
 OTHER LOCALITY INFORMATION: SPRINGS ISSUE FROM ALLUVIUM ALONG THE SOUTH SIDE OF THE RIVER JUST DOWNSTREAM FROM LYONS LODGE.
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 0 16.
 WATER ANALYSIS
 P1..... 8.27 AS HCO3
 ALKALINITY..... 89.
 TOTAL DISSOLVED SOLIDS... 385.
 CHARGE IMBALANCE (% DIFF)... 0.2
 ANALYSIS IN MG/L
 AG..... CO3.....
 AL..... CR.....
 AS..... CS..... L 0.1
 AU..... CU..... L 0.01
 B..... F..... 0.12
 HE..... FE(TOT) L 0.02
 HR..... GE.....
 CA..... 9.7 HCO3..... 89.
 CL..... 92.
 CO..... K..... 1.5
 QUALIFICATION FIELD..... TEMP TAKEN AFTER COLLECTION, THERMISTOR MALFUNCTION AT SPRING DID NOT ALLOW IN-STREAM TEMP TO BE DETERMINED.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... TESHIN, VICTOR
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... MARINER AND OTHERS, 1977A

TOWNSHIP=RANGE
 13S 013W 10 NE
 B&M NEW MEXICO PRINCIPAL

COORDINATES
 LAT/LONG... 33-11.5 N 108-11. W
 UTM ZONE... 12
 NORTHING... 3675879.
 762599.

ISOTOPES 10/001
 DEL D OF WATER..... -80.5
 DEL O(18) OF WATER... -10.75

RECOND 00103
 GEOTHERM FILE ID: 0001634

TOWNSHIP=RANGE
 20S 011W 20 SW OF SE OF NE
 B&M NEW MEXICO PRINCIPAL

COORDINATES
 LAT/LONG... 32-33.2 N 107-59.6 W

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... GRANT
 GEOLOGIC PROVINCE.. 25
 MAP REFERENCE..... DWYER 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1974/12/05
 TEMPERATURE (C)..... 55.
 DISCHARGE..... 0 189.3 L/MIN
 DEPOSITS OR ALTERATION... TRAVERTINE
 OTHER SAMPLE INFORMATION.. WATER DISCHARGED FROM TOP OF A CALCAREOUS TUFA MOUND 10 FT IN DIAMETER (AT TOP) DEPTH OF CRATER IS AT LEAST 18 FT.
 WATER ANALYSIS
 P1..... 7.1
 SPECIFIC CONDUCTANCE... 603.
 CHARGE IMBALANCE (% DIFF)... 6.4
 ANALYSIS IN PPM

ISOTOPES 10/001

RECORD 00104

GEOTHERM FILE ID: 0000677

RECORD 00104

GEUTHERM FILE ID: 0000677

COORDINATES
LAT/LONG... 33-11.94 N 108-12.54 W
UTM ZONE... +12
NORTHING... 3676762.
EASTING... 761020.

OTHER SAMPLE INFORMATION.. SPRINGS EXTENSIVELY MODIFIED AS A WATER SUPPLY. • SOME GAS.

| ISOLIPES 10/001 | |
|-----------------------|--------|
| DEL V OF WATER..... | -82.8 |
| DEL O(18) OF WATER... | -11.03 |

70700) 53201051

C2H6.
C02.. U
N2... 86.
O2... 0 7.5

OTHER ANALYTICAL DATA... SOME GAS.
QUALIFICATION FIELD... GAS ANAL: 02 = 02 • ARI NO DATA ON C02 DUE TO BREAKAGE OF SYRINGE DURING TESTING.
REFERENCE AND IDENTIFICATION
COMPILED BY..... TESHIN, VICTOR
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... MARINER AND OTHERS, 1977A

RECORD 00105

GEOTHERM_SAMPLE_FILE
NAME OF SAMPLE SOURCE... GILA HOT SPRINGS
WELL/SPRING NUMBER..... 135-13W-05-241
LOCATION

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... GRANT
GEOLOGIC PROVINCE.. BASIN-AND-RANGE
MAP REFERENCE..... GILA HOT SPRINGS 1124000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1974/12/05
TEMPERATURE (C)..... 64.
DISCHARGE..... 0 567.8 L/MIN
PERTINENT LITHOLOGY..... SPRINGS ISSUE FROM FRACTURED RHYOLITE.
OTHER SAMPLE INFORMATION.. MAXIMUM REPORTED TEMP OF 66C; MULTIPLE OUTLETS.

COORDINATES

LAT/LONG... 33-11.9 N 108-12.5 W

TOWNSHIP-RANGE

13S 013W 05
H&M: NEW MEXICO PRINCIPAL

GEOTHERM_SAMPLE_FILE
NAME OF SAMPLE SOURCE... GILA RIVER - UNNAMED HOT SPRING
LOCATION

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... GRANT
GEOLOGIC PROVINCE.. BASIN-AND-RANGE
MAP REFERENCE..... GILA HOT SPRINGS 1124000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1974/12/05
TEMPERATURE (C)..... 64.
DISCHARGE..... 0 567.8 L/MIN
PERTINENT LITHOLOGY..... SPRINGS ISSUE FROM FRACTURED RHYOLITE.
OTHER SAMPLE INFORMATION.. MAXIMUM REPORTED TEMP OF 66C; MULTIPLE OUTLETS.

COORDINATES

LAT/LONG... 33-11.9 N 108-12.5 W

TOWNSHIP-RANGE

13S 013W 05
H&M: NEW MEXICO PRINCIPAL

ISOTOPES 10/2001

| | | | | | | |
|---------|-----------|------|---------|------|-------|-----|
| AG..... | CO3..... | 21. | MG..... | 0.06 | SI02. | 53. |
| AL..... | CR..... | | NA..... | 148. | S04.. | 97. |
| U..... | F..... | 8.5 | NB..... | | | |
| HE..... | FE(TOT). | | | | | |
| CA..... | HCO3..... | 104. | | | | |
| CL..... | | | | | | |
| CO..... | K..... | 2.9 | | | | |

QUALIFICATION FIELD..... DISCHARGE RATE IS FOR ENTIRE GROUP OF OUTLETS.
REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... SUMMERS, 1976

RECORD 00106

GEOTHERM_SAMPLE_FILE
NAME OF SAMPLE SOURCE... GILA RIVER - UNNAMED HOT SPRING
LOCATION

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... GRANT
GEOLOGIC PROVINCE.. BASIN-AND-RANGE
MAP REFERENCE..... GILA HOT SPRINGS 1124000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1974/12/05
TEMPERATURE (C)..... 43.0
PERTINENT LITHOLOGY..... TUFF-BRECCIA BEDROCK.

COORDINATES

LAT/LONG... 33-10. N 108-11. W
UTM ZONE... +12
NORTHING... 3673106.
762674.

TOWNSHIP-RANGE

H&M: NEW MEXICO PRINCIPAL

OTHER SAMPLE INFORMATION.. SEEP SPRING.
WATER ANALYSIS

| | | | |
|-----------------------------|----------------|---------|--------|
| PH..... | 7.88 | AS HCO3 | |
| ALKALINITY..... | 130. | | |
| TOTAL DISSOLVED SOLIDS..... | 558. | | |
| CHARGE BALANCE (% DIFF)... | 1.5 | | |
| ANALYSIS IN MG/L | | | |
| AG..... | CO3..... | LI... | 0.25 |
| AL..... | CR..... | MG... | 0.7 |
| AS..... | CS..... | MN... | L 0.02 |
| AU..... | CU..... | | |
| | | NA... | 145. |
| H..... | F..... | SI02. | 72. |
| HE..... | FE(TOT) L 0.02 | SO4.. | 67. |
| HR..... | GE..... | NI... | L 0.02 |
| CA..... | HCO3..... | | |
| CA+MG. | | | |
| CL..... | 120. | | |
| CO..... | K..... | RB... | 0.02 |
| | | ZN... | L 0.01 |

ISLOPES 10/2001

DEL D OF WATER..... -81.2
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 00107

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... GOAT CAMP SPRING
LOCATION

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... GRANT
GEOLOGIC PROVINCE.. 25

COORDINATES
LAT/LONG... 32-49.80 N 109-02.82 W

MAP REFERENCE..... YORK VALLEY 1162500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 21.

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R. & BROOK, C.
REFERENCE..... BERRY AND OTHERS, 1980

RECORD 00108

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... HOT SPRING
WELL/SPRING NUMBER..... 125-14W-24-441

LOCATION

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... GRANT
GEOLOGIC PROVINCE.. 25

COORDINATES
LAT/LONG... 33-14.08 N 108-14.00 W

MAP REFERENCE..... GILA HOT SPRINGS 1124000

OTHER LOCALITY INFORMATION: SPRING IN ALLUVIUM ON EAST SIDE OF RIVER AT WILDERNESS BOUNDARY.

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... GILA 7

TEMPERATURE (C)..... 64.8

WATER ANALYSIS

PH..... 7.92

TOTAL DISSOLVED SOLIDS... 548.
 CHARGE I BALANCE (% DIFF)... 6.8
 ANALYSIS IN PPM
 AG... L 0.07 N 0.43
 AL... L 1.1 L 0.1 MG... 0.1
 AS... 0.006 MN... L 0.063
 AU... L 0.12 CU... L 0.45
 H... 9.5 F... 151.5
 BA... L 0.2 FE(TOT)... 0.22 NB... 118.
 HE... GA... 0.05
 HI... GE... L 0.13
 HR... N 131.1 NI... 0.19
 CA... 15.4 HCO3... 0.021
 CA+MG... MG... 0.0005
 CD... L 0.02
 CL... 144.3
 CO... L 0.018 K... 3.5
 OTHER ANALYTICAL DATA... P = 0.02 PPM CA, MG, NA, K, CO3, HCO3, CL, AND SO4 IN MG/L.
 QUALIFICATION FIELD... NO3 = NO3 + NO2.
 REFERENCE AND IDENTIFICATION
 COMPILED BY... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE... SWANBERG AND OTHERS, 1977

RECORD 00109

GEOTHERM FILE ID: 0001633

GEOTHERM-SAMPLE-FILE
 NAME OF SAMPLE SOURCE... KENECOTT WARM SPRINGS(WELLS)
 WELL/SPRING NUMBER... 20S-11W-18-310
 LOCATION
 COUNTRY... UNITED STATES
 STATE... NEW MEXICO
 COUNTY... GRANT
 GEOLOGIC PROVINCE... 25
 MAP REFERENCE... FAYWOOD STATION 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR... 1965
 TEMPERATURE (C)... 34.
 WELL DEPTH (M)... 68.
 DISCHARGE...
 OTHER SAMPLE INFORMATION... SPRINGS NO LONGER FLOW BECAUSE OF PRODUCTION FROM WELLS. RHYOLITE. ANALYSIS FROM WELL 3.
 FLOW IN EXCESS 3700 L/MIN.
 WATER ANALYSIS
 ANALYSIS IN PPM
 AL... CR... 13.
 H... 0.23 F... 2.2 MG... 40.
 CA... 37. HCO3... 205. NA... 50.
 CL... 14.
 CO... K... 5.2
 REFERENCE AND IDENTIFICATION
 COMPILED BY... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE... SUMMERS, 1976

COORDINATES
 LAT/LONG... 32-33.7 N 108-01.6 W

ISOTOPES 10/001

ISOTOPES 10/001

RECORD 00110
 GEOTHERM FILE ID: 0001660

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... LYONS LODGE HOT SPRINGS

WELL/SPRING NUMBER..... 135-13W-10-121

LOCATION
 COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... GRANT

GEOLOGIC PROVINCE.. 25

MAP REFERENCE..... GILA HOT SPRINGS 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1966/02/20

TEMPERATURE (C)..... 52.

DISCHARGE.....

PERTINENT LITHOLOGY..... RHYOLITE

OTHER SAMPLE INFORMATION.. THERMAL WATERS DISCHARGE ABOUT 200 M ALONG EAST FORK OF GILA RIVER. ANALYSIS FROM

SWIMMING POOL SPRING.

WATER ANALYSIS

PH..... 8.35

SPECIFIC CONDUCTANCE..... 390.

ANALYSIS IN PPM

AG.....

AL.....

BA..... 1.7

CA..... 10.

CL..... 67.

CO.....

CR..... 1.

CU.....

FE.....

FL.....

FR.....

GA.....

GE.....

RECORD 00110

GEOTHERM FILE ID: 0001660

COORDINATES

LAT/LONG... 33-11.5 N 108-10.8 W

NW OF NE OF NW

86M: NEW MEXICO PRINCIPAL

TOWNSHIP-RANGE

13S 013W 10

ISOLOPES 10/001

MG... 0.1

NA... 105.

SI02. 58.

ISOLOPES 10/001

RECORD 00111

GEOTHERM FILE ID: 0001808

COORDINATES

LAT/LONG... 32-50.58 N 108-30.67 W

E1/2 OF SE OF NE

17S 016W 08

TOWNSHIP-RANGE

17S 016W 08

ISOLOPES 10/001

LI... 0.02

MG... 16.5

ISOLOPES 10/001

RECORD 00111

GEOTHERM FILE ID: 0001808

COORDINATES

LAT/LONG... 32-50.58 N 108-30.67 W

E1/2 OF SE OF NE

17S 016W 08

TOWNSHIP-RANGE

17S 016W 08

ISOLOPES 10/001

LI... 0.02

MG... 16.5

ISOLOPES 10/001

RECORD 00111

GEOTHERM FILE ID: 0001808

COORDINATES

LAT/LONG... 32-50.58 N 108-30.67 W

E1/2 OF SE OF NE

17S 016W 08

TOWNSHIP-RANGE

17S 016W 08

ISOLOPES 10/001

LI... 0.02

MG... 16.5

ISOLOPES 10/001

RECORD 00111

GEOTHERM FILE ID: 0001808

COORDINATES

LAT/LONG... 32-50.58 N 108-30.67 W

E1/2 OF SE OF NE

17S 016W 08

TOWNSHIP-RANGE

AS.... 0.004
 AU....
 H.... 0.24
 HA.... L 0.2
 HE....
 HI....
 CA.... 87.
 CA+MG.
 CD....
 CL.... 18.8
 CO....
 CU.... L 0.1
 F.... 0.49
 FE(TQ1). L 0.15
 GA....
 HC03.... 390.5
 HG.... 0.0006
 H2S.... L 0.1
 K.... 7.8
 M0....
 NA.... 34.9
 NB....
 NH4.... 0.05
 NO3.... Q 0.89
 P04.... Q 0.23
 SE.... 0.003
 SI02. 57.75
 S04.... 35.
 ZN.... L 0.02

OTHER ANALYTICAL DATA... CA, MG, NA, K, CO3, HC03, CL, AND S04 IN MG/L.
 QUALIFICATION FIELD... NO3 = NO3 + NO2; P04 = P.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SWANBERG AND OTHERS, 1977

RECORD 00112
 GEOTHERM FILE ID: 0001635

COORDINATES
 LAT/LONG... 32-44.9 N 107-50.2 W

NAME OF SAMPLE SOURCE... MIMBRES HOT SPRINGS
 WELL/SPRING NUMBER... 1HS-01W-13-110
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... GRANT
 GEOLOGIC PROVINCE... 25
 MAP REFERENCE..... DWYER 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1974/12/05
 TEMPERATURE (C)..... 62.
 DISCHARGE.....
 OTHER SAMPLE INFORMATION... SEVERAL SPRINGS & SEEPS W/COMBINED DISCHARGE OF 2200 L/MIN.
 WATER ANALYSIS

PH..... 8.3
 SPECIFIC CONDUCTANCE..... 450.
 CHARGE IMBALANCE (% DIFF)... 4.5
 ANALYSIS IN PPM
 AL....
 H.... 0.05
 HE....
 CA.... 3.3
 CL.... 17.
 CR....
 F.... 18.
 FE(TQ1).
 HC03.... 107.
 K....
 MG.... 0.6
 NA.... 94.
 NB....
 SI02. 56.
 S04.... 65.
 TOWNSHIP=RANGE
 18S 001W 13 NW OF NM
 B&M: NEW MEXICO PRINCIPAL

RECORD 00113
 GEOTHERM FILE ID: 0001619

NAME OF SAMPLE SOURCE... RIVERSIDE STORE WELL
 WELL/SPRING NUMBER... 16S-1/W-09-242
 LOCATION
 COUNTRY.....
 STATE.....
 COUNTY.....
 GEOLOGIC PROVINCE...
 MAP REFERENCE...
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR...
 TEMPERATURE (C)...
 DISCHARGE...
 OTHER SAMPLE INFORMATION...
 WATER ANALYSIS

NAME OF SAMPLE SOURCE... TURKEY CREEK - UNNAMED HOT SPRING
WELL/SPRING NUMBER... 145-16W-03-443

WARNING NUMBER... 29

LOCATION

COUNTRY... UNITED STATES
STATE... NEW MEXICO
COUNTY... GRANT

TOWNSHIP=RANGE
145 016W 03

SE OF SE OF SW

CORRINATES
LAT/LONG... 33-06.48 N 108-28.98 W

33-06.48 N 108-28.98 W

GEOLOGIC PROVINCE.. 25

MAP REFERENCE... CANYON HILL 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER... GILA 20

TEMPERATURE (C)..... 74.6

WATER ANALYSIS

P..... 8.66

TOTAL DISSOLVED SOLIDS... 236.

CHARGE IMBALANCE (% DIFF)... 9.9

ANALYSIS IN PPM

AG..... L 0.06

AI..... L 1.

AS..... 0.007

AU.....

BA..... 0.12

HA..... L 0.2

HE.....

HI.....

CA..... 6.8

CA+MG.

CO.....

CL..... 4.2

CO.....

OTHER ANALYTICAL DATA... K..... 1.5

QUALIFICATION FIELD... CA, MG, NA, K, CO3, HCO3, CL, AND SO4 IN MG/L.

REFERENCE AND IDENTIFICATION

COMPILED BY... LAWSON, WILLIAM A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE... SWANBERG AND OTHERS, 1977

ISOLOPES 10/001

LI... 0.06

MG... 1.6

MO... 61.1

NA... 64.8

NB... L 0.002

NH4... 67.65

NO3... 504...

NO3... L 0.05

NO3... 0 0.72

PO4... 0 0.01

PO4... L 0.02

ZN... L 0.02

RECORD 00116

GEOCHEMICAL SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED

WELL/SPRING NUMBER... 135-13W-10-200

LOCATION

COUNTRY... UNITED STATES

STATE... NEW MEXICO

COUNTY... GRANT

GEOLOGIC PROVINCE.. BASIN-AND-RANGE

MAP REFERENCE... GILA HOT SPRINGS 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1966/02/22

TEMPERATURE (C)..... 41.

DISCHARGE... 117. L/MIN

WATER ANALYSIS

P..... 8.1

SPECIFIC CONDUCTANCE... 581.

CHARGE IMBALANCE (% DIFF)... 1.7

GEOCHEM FILE 101 0001624

CORRINATES
LAT/LONG... 33-11.5 N 108-10.7 W

TOWNSHIP=RANGE
135 013W 10 NE

H&M: NEW MEXICO PRINCIPAL

ANALYSIS IN PPM

CR..... 0.6
 F..... 116.
 NA.....
 MG.....
 FE(TOT)..... 6.6
 CA..... 9.7
 HCO3..... 99.
 CL..... 1.3
 CO..... 1.5
 K.....
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

RECORD 00117

GEOTHERMAL SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED
 WELL/SPRING NUMBER..... 135-13W-20-430
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... GRANT
 GEOLOGIC PROVINCE.. 25
 MAP REFERENCE..... GILA HOT SPRINGS 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1966/03/27
 TEMPERATURE (C)..... 44.7
 DISCHARGE..... 76. L/MIN
 PERTINENT LITHOLOGY..... RHYOLITE IN COMPLEX FAULT ZONE
 WATER ANALYSIS

PH..... 8.31
 SPECIFIC CONDUCTANCE..... 680.

ANALYSIS IN PPM

CR..... 0.35
 F..... 150.
 NA.....
 MG.....
 FE(TOT)..... 2.9
 CA..... 112.
 HCO3..... 3.9
 CL.....
 CO.....
 K.....
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

RECORD 00118

GEOTHERMAL SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED
 WELL/SPRING NUMBER..... 135-13W-10-200
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... GRANT
 GEOLOGIC PROVINCE.. 25
 MAP REFERENCE..... GILA HOT SPRINGS 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1966/02/22
 TEMPERATURE (C)..... 41.
 DISCHARGE..... 117. L/MIN

ISOTOPES 10/001

SI02.. 64.
 S04.. 31.

RECORD 00117
 GEOTHERM FILE ID: 0001622

COORDINATES
 LAT/LONG... 33-09.7 N 108-12.5 W

ISOTOPES 10/001

SI02.. 70.

RECORD 00118
 GEOTHERM FILE ID: 0001623

COORDINATES
 LAT/LONG... 33-11.5 N 108-10.7 W

PERTINENT LITHOLOGY..... RHYOLITE TUFF
 OTHER SAMPLE INFORMATION.. DISCHARGE FROM FRACTURES IN TUFF ABOUT 0.8 KM EAST OF LYONS LODGE HOT SPRINGS

WATER ANALYSIS

P-1..... 8.45

SPECIFIC CONDUCTANCE..... 560.

ANALYSIS IN PP4

AG..... CO3..... 2.

AL..... CR..... MG... 0.2

HA..... F..... NA... 111.

CA..... 11. HCO3.... 77.

CO..... K..... 1.7

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... SUMMERS, 1976

ISOTOPES 10/001

74.

SI02.

111.

RECORD 00119

GEOTHERM FILE 10: 0001610

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED SPRING

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... GRANT

GEOLOGIC PROVINCE.. 25

MAP REFERENCE..... YORK VALLEY 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 21.

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R. & BROOK, C.

REFERENCE..... BERRY AND OTHERS, 1980

COORDINATES

LAT/LONG... 32-53.94 N 109-02.10 W

TOWNSHIP-RANGE

15S 017W 27

B&M; NEW MEXICO PRINCIPAL

RECORD 00120

GEOTHERM FILE 10: 0001621

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... WELL

WELL/SPRING NUMBER..... 15S-17W-27-111

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... GRANT

GEOLOGIC PROVINCE.. 25

MAP REFERENCE..... CLIFF 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1966/03/03

TEMPERATURE (C)..... 35.

WELL DEPTH (M)..... 91.

DISCHARGE.....

OTHER SAMPLE INFORMATION.. PRODUCTION INTERVAL 52-55M

WATER ANALYSIS

P-1..... 8.5

SPECIFIC CONDUCTANCE..... 610.

ANALYSIS IN PPM

AG..... CO3..... 4.

HA..... F..... NA... 153.

CA..... 2.0 HCO3.... 177.

ISOTOPES 10/001

44.

SI02.

153.

CL..... 20.
 CO..... K..... 1.0
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

RECORD 00121
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... WELL
 WELL/SPRING NUMBER..... 19S-12W-12-000
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... GRANT
 GEOLOGIC PROVINCE.. 25
 MAP REFERENCE..... HURLEY EAST 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 62.
 DISCHARGE.....
 WATER ANALYSIS

ANALYSIS IN PPM
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

RECORD 00122
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... LIGHTNING DUCK AREA - HOT WELLS
 WELL/SPRING NUMBER..... 25S-19W-07-343
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... HIDALGO
 GEOLOGIC PROVINCE.. PEDREGOSA BASIN
 MAP REFERENCE..... SWALLOW FORK PEAK 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 99.0
 OTHER SAMPLE INFORMATION.. NO SURFACE SPRINGS! SHALLOW WATER WELLS BUILDING. DRILLHOLE 3 KM TO NORTH SHOWED 121 C AT
 ? KM DEPTH.

WATER ANALYSIS
 DATE/ANALYST..... 1954/04/00
 PH..... 8.4
 SPECIFIC CONDUCTANCE..... 1580.
 TOTAL DISSOLVED SOLIDS... 1160.
 CHARGE IMBALANCE (% DIFF)... 2.8

ANALYSIS
 AG..... CO3..... 0.3
 AL..... 0.1
 AS.....
 AR.....
 BA.....
 BE.....
 CA..... 21.
 CH.....
 CL.....
 CS.....
 F..... 9.9
 FE (TOT)... 0.07
 HCO3..... 145.
 MG..... 0.7
 MN.....
 NA.....
 ND.....
 SI02..... 324.
 SO4..... 504.
 TDS..... 138.
 UO2..... 4/4.

ISOBARS 10/001

COORDINATES
 LAT/LONG... 32-40.8 N 108-02.4 W

TOWNSHIP-RANGE
 19S 012W 12
 B&M: NEW MEXICO PRINCIPAL

COORDINATES
 LAT/LONG... 32-08.70 N 108-50.00 W
 UTM ZONE... +12
 NORTHING... 3558007.
 704364.

CL.... #3.
 CO..... K..... 21.
 OTHER ANALYTICAL DATA... CHEMICAL ANALYSIS MUST BE FROM SUMMERS, 1965A.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... PATTERSON, E., RENNER, J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SCOTT AND BARKER, 1962

RECORD 00123
 GEOTHERM FILE ID: 0001617

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... WELL
 WELL/SPRING NUMBER..... 225-21W-03-312
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... HIDALGO
 GEOLOGIC PROVINCE.. 25
 MAP REFERENCE..... SUMMIT 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1966/06/20
 TEMPERATURE (C)..... 31.
 DISCHARGE.....
 OTHER SAMPLE INFORMATION.. MAX. REPORTED TEMPERATURE 35 C

WATER ANALYSIS

PH..... 7.8
 SPECIFIC CONDUCTANCE..... 1590.
 ANALYSIS IN PPM
 AL.....
 H.....
 CA..... 265.
 CL..... 102.
 CO.....
 CH.....
 F.....
 HC03..... 431.
 MG... 6.9
 NA... 91.
 ISOIOPES 10/001

REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

RECORD 00124
 GEOTHERM FILE ID: 0070815

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... TROUT FARM
 WELL/SPRING NUMBER..... 105-17E-29-130
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... LINCOLN
 MAP REFERENCE..... LINCOLN 1:62500
 OTHER LOCALITY INFORMATION: ELEV. = 1585. M.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1976/01/00
 TEMPERATURE (C)..... 18.
 PERTINENT LITHOLOGY..... SAN ANDRES LIMESTONE.

WATER ANALYSIS
 PH..... 7.4
 CHARGE I BALANCE (% DIFF)... 45.6

ISOIOPES 10/001

MG... 16.
NA... 12.
NH... 197.
SR... 0.82
CA... 106.
CL... 14.
CO... 6.5

OTHER ANALYTICAL DATA... H+ = 7.4 PPM.
REFERENCE AND IDENTIFICATION
COMPILED BY..... LAWSON, WILLIAM A
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... LEFEBRE, 1977

RECORD 00125

GEOTHERM FILE ID: 0001630

COORDINATES
LAT/LONG... 32-15.20 N 107-34.83 W

UNIONSHIP=RANGE
24S 007W 05 NW
BGM: NEW MEXICO PRINCIPAL

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... WELL (SOUTH OF CARNE)
WELL/SPRING NUMBER..... 24S-07W-05-100

LOCATION
COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... LUNA
GEOLOGIC PROVINCE.. 25
MAP REFERENCE..... CARNE 1:24000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1969/08/04
TEMPERATURE (C)..... 39.
WELL DEPTH (M)..... 338.
DISCHARGE..... L/MIN

WATER ANALYSIS

PH..... 9.6
SPECIFIC CONDUCTANCE..... 439.
TOTAL DISSOLVED SOLIDS... 332.
ANALYSIS IN PPM

AG..... 46.
AL..... 0.6
H..... 1.7
HE..... 73.
CA..... 4.9
CL..... 9.
CO..... 3.2
MG... 0.6
NA... 102.
NH... 34.
SR... 34.

REFERENCE AND IDENTIFICATION
COMPILED BY..... BROOK, C.A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... SUMMERS, 1976

RECORD 00126

GEOTHERM FILE ID: 0001676

COORDINATES
LAT/LONG... 35-43.13 N 108-41.4 W

UNIONSHIP=RANGE
17N 017W
BGM: NEW MEXICO PRINCIPAL

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... ANTESIAN WELL

LOCATION
COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... MCKINLEY
GEOLOGIC PROVINCE.. 24
MAP REFERENCE..... BIG ROCK HILL 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1979/06
 TEMPERATURE (C)..... 23.
 DISCHARGE..... 95. L/MIN

WATER ANALYSIS

PH..... 6.8
 CHARGE IMBALANCE (% DIFF).... 3.4
 ANALYSIS IN PPM

| | | | |
|---------|----------|--------|-------|
| AG..... | CO3..... | LI.... | 0.024 |
| AL..... | CR..... | MG.... | 0.12 |
| AS..... | CS..... | MN.... | 0.002 |
| H..... | F..... | NA.... | 94. |
| HA..... | 0.11 | | 0.42 |
| HE..... | 0.028 | | |
| HI..... | | | |
| CA..... | 1.21 | | |
| CL..... | 2.7 | | |
| CO..... | K..... | | 0.98 |

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEVITTE AND GAMBILL, 1980

RECORD 00127

GEOTHERMAL SAMPLE LIFE

NAME OF SAMPLE SOURCE... CHURCH ROCK SCHOOL WELL
 LOCATION..... TOWNSHIP-RANGE
 17N 018W

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... MCKINLEY
 GEOLOGIC PROVINCE.. SAN JUAN BASIN

MAP REFERENCE..... CHURCH ROCK 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1979/09
 TEMPERATURE (C)..... 20.
 DISCHARGE..... L/MIN

WATER ANALYSIS

CHARGE IMBALANCE (% DIFF).... 29.5
 ANALYSIS IN PPM

| | | | |
|---------|----------|--------|------|
| AG..... | CO3..... | LI.... | 0.21 |
| AL..... | CR..... | MG.... | 25.1 |
| AS..... | CS..... | MN.... | 0.11 |
| H..... | F..... | NA.... | 172. |
| HA..... | 0.043 | | 1.69 |
| HE..... | 0.016 | | |
| HI..... | | | |
| CA..... | 40.19 | | |
| CL..... | 19. | | |
| CO..... | K..... | | 3.4 |

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEVITTE AND GAMBILL, 1980

GEOTHERM FILE ID: 0001667

COORDINATES

LAT/LONG... 35-33.0 N 108-36.6 W

ISOTOPES 10/001

ISOTOPES 10/001

SI02. 13.03
 S04.. 30.21
 SR... 0.046

SI02. 2.9
 S04.. 635.
 SR... 0.46

RECORD 00128

GEOTHERM FILE ID: 0001626

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... PURE OIL NAVAJO NO 1
 WELL/SPRING NUMBER..... 19N-17W-29-000
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... MCKINLEY
 GEOLOGIC PROVINCE.. SAN JUAN BASIN
 MAP REFERENCE..... CHUSKA LAKE 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1960/04/01
 TEMPERATURE (C)..... 36.
 WELL DEPTH (M)..... 762.
 DISCHARGE..... 3400. L/MIN
 WATER ANALYSIS

PH..... 8.4
 SPECIFIC CONDUCTANCE..... 594.
 TOTAL DISSOLVED SOLIDS... 390.
 CHARGE IMBALANCE (% DIFF)... 1.0
 ANALYSIS IN PPM

ISOTOPES (0/001

| | | | | |
|---------|------------|------|--------|-------|
| AG..... | CO3..... | 3. | MG.... | 0.1 |
| AL..... | CR..... | | MN.... | N |
| AS..... | CS..... | | NA.... | 132. |
| B..... | F..... | 0.4 | NO.... | 22. |
| BE..... | FE(TOT)... | 0.02 | | 504.. |
| CA..... | HCO3..... | 198. | | |
| CD..... | H2S..... | | PO4.. | 0.22 |
| CL..... | | | | |
| CO..... | K..... | 0.6 | | |

REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPUTER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

RECORD 00129

GEOTHERM FILE ID: 0001625

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... PURE OIL NO. 3
 WELL/SPRING NUMBER..... 19N-17W-22-000
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... MCKINLEY
 GEOLOGIC PROVINCE.. CHUSKA LAKE 1:24000
 MAP REFERENCE.....
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1963/09/09
 TEMPERATURE (C)..... 35.
 WELL DEPTH (M)..... 244.
 DISCHARGE..... L/MIN
 OTHER SAMPLE INFORMATION.. ARTESIAN
 WATER ANALYSIS

COORDINATES
 LAT/LONG... 35-51.2 N 108-37.8 W

PH..... 8.3
 SPECIFIC CONDUCTANCE..... 606.
 TOTAL DISSOLVED SOLIDS..... 399.
 ANALYSIS IN PPM
 AG..... CO3..... 2.
 AL..... CR..... N
 H..... F..... 0.3
 HE..... FE(TQT).....
 CA..... 5.2 HCO3..... 212.
 CL..... 5.2 I..... N
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

RECORD 00130

GEOTHERM FILE ID: 0001677

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... RAINBOW SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... MCKINLEY
 GEOLOGIC PROVINCE... 28
 MAP REFERENCE..... OJO CALIENTE RESERVOIR 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1979/04
 TEMPERATURE (C)..... 21.
 DISCHARGE..... 6 500. L/MIN
 WATER ANALYSIS

TOWNSHIP-RANGE

T1N 020W 21
 NW OF SE NW
 86M: NEW MEXICO PRINCIPAL

COORDINATES

LAT/LONG... 34-54.63 N 108-57.03 W

PH..... 7.0
 CHARGE IMBALANCE (% DIFF)... 4.6
 ANALYSIS IN PPM
 AG..... CO3.....
 AL..... CR..... 0.138
 AS..... CS..... 40.
 R..... F..... N
 RA..... 0.096 0.5
 HE..... 0.096
 HI..... FE(TQT)..... N
 CA..... 138.5 GA.....
 CL..... 32.9 HCO3..... 275.7
 CO..... K..... 5.48
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEVITTE AND GAMHILL, 1980

ISOIOPES 10/001

LI... 0.138
 MG... 40.
 MN... N
 NA... 53.67
 SI02... 16.8
 SO4... 320.
 SR... 1.34

RECORD 00131

GEOTHERM FILE ID: 0001672

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... STANDING ROCK SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... MCKINLEY
 GEOLOGIC PROVINCE... 28
 MAP REFERENCE..... OJO CALIENTE RESERVOIR 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1979/04
 TEMPERATURE (C)..... 21.
 DISCHARGE..... 6 500. L/MIN
 WATER ANALYSIS

TOWNSHIP-RANGE

T1N 014W
 NW OF SE NW
 86M: NEW MEXICO PRINCIPAL

COORDINATES

LAT/LONG... 35-48.6 N 108-22.2 W

GEOLOGIC PROVINCE.. 28
 MAP REFERENCE..... STANDING ROCK 1:24000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1979/06

TEMPERATURE (C)..... 21.

DISCHARGE..... 6 30. L/MIN

WATER ANALYSIS

PH..... 9.1

CHARGE IMBALANCE (% DIFF).... 9.4

ANALYSIS IN PPM

AG..... CO3..... 0.142

AL..... CR..... 0.5

AS..... CS..... 0.024

H..... F..... 3.32

HA..... 0.79

HE..... FE(TOT)..... 0.17

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

CA..... 2.7

CL..... HCO3..... 557.54

CO..... K..... 1.2

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... LEVITTE AND GAMBILL, 1980

RECORD 00132

GEOTHERM FILE ID: 0001673

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... STINKING SPRING

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... MCKINLEY

GEOLOGIC PROVINCE.. 28

MAP REFERENCE..... UPPER NUJRIA 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1979/06

TEMPERATURE (C)..... 23.2

DISCHARGE..... 19. L/MIN

WATER ANALYSIS

PH..... 8.2

CHARGE IMBALANCE (% DIFF).... 1.3

ANALYSIS IN PPM

AG..... CO3..... 0.131

AL..... CR..... 16.7

AS..... CS..... 0.112

H..... F..... 24.75

HA..... 0.2

HE..... FE(TOT)..... 0.14

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

CA..... 118.

CL..... HCO3..... 369.66

CO..... K..... 1.1

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.

ISOTOPES 10/2001

S102. 9.63

S04.. 538.3

SR... N

COORDINATES

LAT/LONG... 35-21.30 N 108-35.55 W

ISOTOPES 10/2001

S102. 13.73

S04.. 95.03

SR... N

U.S. GEOLOGICAL SURVEY
LEVITTE AND GAMBILL, 1980

RECORD 00133

GEOTHERM FILE ID: 0001674

COORDINATES
LAT/LONG... 35-52.2 N 108-40.8 W
GEOTHERM FILE ID: 0

| NAME OF SAMPLE SOURCE... | TOH | SAH | TUH |
|--------------------------|-----------------|-----|-----------|
| LOCATION | | | |
| COUNTRY..... | UNITED STATES | | |
| STATE..... | NEW MEXICO | | |
| TOWNSHIP-RANGE | 19N 017W | | |
| | B5M: NEW MEXICO | | PRINCIPAL |

TOWNSHIP-RANGE

MAP REFERENCE..... CHUSKA LAKE 1:24000
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

STSA 16FNV, 8-14-08M

USOIOPE5 (0/00)

[illegible]

REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEVITTE AND GAMBILL, 1980

RECORD 00134

GEOTHERM FILE ID: 0001627

COORDINATES
LAT/LONG... 35-29.4 N 108-33.3 W

WELL/SPRING NUMBER..... 15N-16W-30-344
LOCATION
COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
TOWNSHIP-RANGE
15N 16W 30 SE OF SE OF SW
B&M; NEW MEXICO PRINCIPAL

44
TOWNSHIP-RANGE

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

DISCHARGE..... L/MIN
OTHER SAMPLE INFORMATION.. HOT WATER PART OF WELL IS PLUGGED
WATER ANALYSIS

PH..... 7.3
 SPECIFIC CONDUCTANCE..... 5520.
 CHARGE IMBALANCE (% DIFF).... 0.8
 ANALYSIS IN PPM
 AL..... CR..... MG... 59.
 H..... 1.1 F..... 0.4 NA... 1100.
 HE..... FE(TOT)..... 0.11 NB... 3.8
 CA..... 264. HCO3..... 110. S102. 504..
 CL..... 63. I..... 0.1 SR... 2990.
 CO..... K..... 21.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

RECORD 00135

GEOTHERM FILE ID: 0001678

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... YA-TA-MEY WELL
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... MCKINLEY
 GEOLOGIC PROVINCE.. 28
 MAP REFERENCE..... TWIN LAKES 1:24000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1979/04
 TEMPERATURE (C)..... 45.5
 DISCHARGE..... L/MIN
 WATER ANALYSIS

COORDINATES
 LAT/LONG... 35-38.4 N 108-46.8 W

PH..... 7.2
 CHARGE IMBALANCE (% DIFF).... 5.3
 ANALYSIS IN PPM
 AG..... CO3..... LI... 0.102
 AL..... CR..... MG... 0.04
 AS..... CS..... MN... 0.006
 BA..... F..... 0.33 NA... 205.33
 HA..... 0.056 S102. 23.55
 HE..... 0.083
 HI..... FE(TOT)..... 0.001 NB... S04..
 CA..... GA..... NH4..
 CL..... HCO3..... 222. SR...
 CO..... K..... 0.64
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEVITTE AND GAMBILL, 1980

ISOTOPES 10/001

RECORD 00136

GEOTHERM FILE ID: 0001675

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... 141-510
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 TOWNSHIP=RANGE
 12S 020W
 NE OF NW
 B&M: NEW MEXICO PRINCIPAL

COORDINATES
 LAT/LONG... 35-42.0 N 108-42.0 W

COUNTY..... MCKINLEY
 GEOLOGIC PROVINCE.. SAN JUAN BASIN
 MAP REFERENCE..... BIG ROCK HILL 1:24000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1979/06
 TEMPERATURE (C)..... 23.
 DISCHARGE..... 57. L/MIN
 WATER ANALYSIS

PI..... 8.7
 CHARGE IMBALANCE (% DIFF).... 1.6
 ANALYSIS IN PPM

| | | | |
|--------------|----------|---------|--------------|
| AG..... | CO3..... | LI.... | 0.035 |
| AL..... | CR..... | MG.... | 0.08 |
| AS..... | CS..... | MN.... | 0.003 |
| BA..... | F..... | NA.... | 204. |
| HA..... | 0.15 | | SI02. 11.55 |
| HE..... | 0.049 | | |
| HI..... | | | |
| FE(TOT)..... | 0.03 | NB.... | 504.. 159.77 |
| GA..... | | NH4.... | SR... 0.056 |
| CA..... | 1.28 | | |
| CO..... | 8.1 | | |
| CL..... | | | |
| K..... | 1.0 | | |

REFERENCE AND IDENTIFICATION
 COMPILED BY..... RHOCK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEVITTE AND GAMBILL, 1980

GEOTHERM SAMPLE-LIFE
 NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF DAVIS DOME (1)
 WELL/SPRING NUMBER..... 255-08E-32-333
 LOCATION

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... UTERO
 GEOLOGIC PROVINCE.. 27
 MAP REFERENCE..... DESERT SW 1:24000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1957/01
 POINT OF COLLECTION.. SAMPLE TAKEN AT 221. M
 TEMPERATURE (C)..... 61.1
 WELL DEPTH (M)..... 227.

RECORD 00137

GEOTHERM FILE ID: 0001467

COORDINATES
 LAT/LONG... 32-04.85 N 106-09.3 W

OTHER SAMPLE INFORMATION.. WELL DESTROYED
 WATER ANALYSIS

| | | | |
|---------------------------|------------|---------|------------|
| PI..... | 6.8 | | |
| SPECIFIC CONDUCTANCE..... | 14500. | AS HCO3 | |
| ALKALINITY..... | | | |
| TOTAL DISSOLVED SOLIDS... | 8980. | | |
| ANALYSIS IN MG/L | | | |
| AL..... | CR..... | MG.... | 80. |
| BA..... | F..... | NA.... | SI02. 53.0 |
| HA..... | FE+3.... | NA+K.. | 2530. |
| HE..... | FE(TOT)... | NB.... | 504.. 859. |
| CA..... | 403. | | |
| | | | 240. |

ISOTOPES 10/0001

CL..... 4060,
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LIEB, RANDY
 COMPILER AFFILIATION... US GEOLOGICAL SURVEY
 REFERENCE..... HENRY AND GLUCK, 1981

RECORD 00138

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF DAVIS DOME (1)
 WELL/SPRING NUMBER..... 26S-07E-01-241
 LOCATION

GEOTHERM FILE ID: 0001466

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... OTERO
 GEOLOGIC PROVINCE.. 27
 MAP REFERENCE..... DESERT SW 1424000

COORDINATES
 LAT/LONG... 32-04.55 N 106-10.6 W

TOWNSHIP=RANGE
 26S 007E 01 NW OF SE NE

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1956/12
 POINT OF COLLECTION.. SAMPLE TAKEN AT 154. M
 TEMPERATURE (C)..... 0 50.
 WELL DEPTH (M)..... 153.

OTHER SAMPLE INFORMATION.. WELL DESTROYED
 WATER ANALYSIS

PH..... 7.7
 SPECIFIC CONDUCTANCE..... 2030. AS HC03
 ALKALINITY.....
 TOTAL DISSOLVED SOLIDS... 1170.
 ANALYSIS IN MG/L

ISOLOPES 10/001

AL..... CR..... 9.5
 H..... F..... 1.6
 RA..... FE+3..... 401.
 HE..... FE(TOT).....
 CA..... 9.9 HC03..... 223. 1.2
 CL..... 445.

SI02. 44.0

SI04.. 99.

QUALIFICATION FIELD..... TEMP. MEASURED DURING DRILL STEM TEST ON 1956/10

REFERENCE AND IDENTIFICATION

COMPILED BY..... LIEB, RANDY
 COMPILER AFFILIATION... US GEOLOGICAL SURVEY
 REFERENCE..... HENRY AND GLUCK, 1981

RECORD 00139

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... STATUE SPRING
 LOCATION

GEOTHERM FILE ID: 0001838

TOWNSHIP=RANGE

COORDINATES
 LAT/LONG... 36-22.08 N 106-03.54 W

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... RIO ARriba
 GEOLOGIC PROVINCE.. 26
 MAP REFERENCE..... OJO CALIENTE 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 28.

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R. & BROOK, C.

REFERENCE..... HERRY AND OTHERS, 1980

RECORD 00140

GEOHEM FILE ID: 0001629

GEOHEM SAMPLE FILE

NAME OF SAMPLE SOURCE... MONTEZUMA HOT SPRINGS

WELL/SPRING NUMBER..... 17N-15E-36-440

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... SAN MIGUEL

GEOLOGIC PROVINCE... SAN JUAN BASIN

MAP REFERENCE..... MONTEZUMA 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1966/01/03

TEMPERATURE (C)..... 55.

DISCHARGE..... ?? L/MIN

OTHER SAMPLE INFORMATION.. FRACTURED GRANITE. SEVERAL SPRINGS, SEEPS AND WELLS FOR A DISTANCE OF 350 M ALONG GALLINAS RIVER. MAX. TEMP OF 58.4 C AT 35M. 112 L/MIN

WATER ANALYSIS

PH..... 8.38

SPECIFIC GRAVITY..... 0 0.989

SPECIFIC CONDUCTANCE..... 810.

CHARGE IMBALANCE (% DIFF)... 2.9

ANALYSIS IN PPM

| | | | | |
|---------|-----------|--------|--------|-------|
| AG..... | CO3..... | 1. | LI.... | 0.36 |
| AL..... | CR..... | | MG.... | N |
| AS..... | CS..... | | MN.... | 0.095 |
| AU..... | CU..... | | MO.... | |
| H..... | F..... | 3.4 | NA.... | 200. |
| RE..... | FE(TOT).. | N | NB.... | |
| HR..... | | | | |
| CA..... | HC03.... | 82. | | |
| CL..... | I..... | 0.0094 | | |
| CO..... | K..... | 6.9 | | |

SE... N
S102.
S04.. 160.

ISOLOPES 10/001

QUALIFICATION FIELD..... DENSITY AT 20 C (MG/L).

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... SUMMERS, 1976

RECORD 00141

GEOHEM FILE ID: 0016502

GEOHEM SAMPLE FILE

NAME OF SAMPLE SOURCE... RACA 11 - UNION OIL CO.

WELL/SPRING NUMBER..... 19N-03E-12-000

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... SANDOVAL

GEOLOGIC PROVINCE... SAN JUAN BASIN

MAP REFERENCE..... SEVEN SPRINGS 1:24000

OTHER LOCALITY INFORMATION: 1900 FT. S, 1500 FT. W. FROM NE CORNER. (NOT SURVEYED)

SAMPLE DESCRIPTION AND CONDITIONS

COORDINATES

LAT/LONG... 35-53. N 106-34. W

SAMPLE NUMBER..... BACA 11E, BACA 11 F

WATER ANALYSIS

PH..... 7.10
 SPECIFIC GRAVITY..... 1.008
 SPECIFIC CONDUCTANCE..... 11230.
 TOTAL DISSOLVED SOLIDS... 6896.
 TOTAL SUSPENDED SOLIDS... 522.
 CHARGE IMBALANCE (% DIFF)... 6.0
 ANALYSIS IN PPM

AG..... CO3..... N
 H..... F.....
 HE..... FE(TQT)..
 HI..... GA.....
 CA..... 36. HCO3..... 118.
 CL..... 3770. K..... 541.
 CO.....

CONDENSATE ANALYSIS

PH..... 4.3
 ANALYSIS IN PPM

GAS ANALYSIS

ANALYSIS IN PPM
 CH4... 6.
 C2H6..
 CO2... 45900.
 H2... 1.5

OTHER ANALYTICAL DATA... GASES IN STEAM PHASE ONLY.
 QUALIFICATION FIELD... NH4 IN CONDENSATE CALCULATED FROM NH3
 REFERENCE AND IDENTIFICATION

COMPILED BY..... SILVA, CHRISTOPHER L.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... COSNER AND APPS, 1978.

RECORD 00142

GEOTHERM FILE ID: 0016501

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... BACA 11 - UNION OIL CO.
 KGRA..... BACA LOCATION NO. 1 KGRA
 WELL/SPRING NUMBER..... 19N-03E-12-000

LOCATION

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SANDOVAL
 GEOLOGIC PROVINCE.. SAN JUAN BASIN
 MAP REFERENCE..... SEVEN SPRINGS 1:24000
 OTHER LOCALITY INFORMATION: 1900 FT. S. 1500 FT. W. FROM NE CORNER.
 SAMPLE DESCRIPTION AND CONDITIONS (NOT SURVEYED)

SAMPLE NUMBER..... BACA 11C, BACA 11D

PH..... 6.80
 SPECIFIC CONDUCTANCE..... 10630.
 TOTAL DISSOLVED SOLIDS... 7034.
 TOTAL SUSPENDED SOLIDS... 688.
 CHARGE IMBALANCE (% DIFF)... 0.7
 ANALYSIS IN PPM

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

ISOTOPES (00/001)

LI... 2.2
 NA... 835.
 NH... 59.
 NH4... 1.6
 S... 504..
 SI02.. 504..
 S... 2010.

ISOTOPES (00/001)

NH4... 0 1.6

ISOTOPES (00/001)

H2S... 360.
 N2... N

COORDINATES
 LAT/LONG... 35-53. N 106-34. W

ISOTOPES (00/001)

S... 6.

H.....
 HE.....
 CA..... 27.
 CL..... 3400.
 CO.....
 CONDENSATE ANALYSIS
 PH..... 4.5
 GAS ANALYSIS
 ANALYSIS IN PPM
 CH4... 1.5
 C2H6..
 CO2... 47390.
 H2... 4.
 OTHER ANALYTICAL DATA... GASES IN STEAM PHASE ONLY.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... SILVA, CHRISTOPHER L.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... COSNER AND APPS, 1978.

ISOIOPES 100/01

NAME OF SAMPLE SOURCE... RACA 11 - UNION OIL CO.
 KGRA..... BACA LOCATION NO. 1 KGRA
 WELL/SPRING NUMBER..... 19N-03E-12-000
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SANDOVAL
 GEOLOGIC PROVINCE... SAN JUAN BASIN
 MAP REFERENCE..... SEVEN SPRINGS 1:24000
 OTHER LOCALITY INFORMATION: 1900 FT. S. 1500 FT. W. FROM NE CORNER, (NOT SURVEYED)
 SAMPLE DESCRIPTION AND CONDITIONS
 SAMPLE NUMBER..... BACA 11A, BACA 11B
 OTHER SAMPLE INFORMATION.. WELL DRILLED SEPT-NOV 1973
 WATER ANALYSIS

AG.....
 H.....
 HE.....
 HI.....
 CA..... 46.
 CL..... 4400.
 CO.....
 CONDENSATE ANALYSIS
 PH..... 4.9
 GAS ANALYSIS
 ANALYSIS IN PPM
 CH4... 290.

ISOIOPES 100/01

ISOIOPES 100/01

RECORD 00143

GEOTHERM FILE ID: 0016500

COORDINATES
 LAT/LONG... 35-53. N 106-34. W

C2H6.. 33/00. H2... 39.
 CO2.. 2.
 OTHER ANALYTICAL DATA... GASES IN STEAM PHASE ONLY.
 QUALIFICATION FIELD.... NH4 IN CONDENSATE CALCULATED FROM NH3
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... SILVA, CHRISTOPHER L.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... COSNER AND APPS, 1978.

RECORD 00144

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... RACA 11 - UNION OIL CO.
 K.R.A..... BACA LOCATION NO. 1 KGRA
 WELL/SPRING NUMBER..... 19N-03E-12-000
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SANDOVAL
 GEOLOGIC PROVINCE.. SAN JUAN BASIN
 MAP REFERENCE..... SEVEN SPRINGS 1:24000
 OTHER LOCALITY INFORMATION: 1900 FT. S. 1500 FT. W. FROM NE CORNER. (NOT SURVEYED)
 SAMPLE DESCRIPTION AND CONDITIONS
 SAMPLE NUMBER..... BACA 11 G
 CONDENSATE ANALYSIS
 P1..... 4.7

COORDINATES
 LAT/LONG... 35-53. N 106-34. W

GAS ANALYSIS
 ANALYSIS IN MOLE %
 CH4.. 0.01 H2S.. 1.27
 C2H6.. 0.07 N2... 0.27
 CO2.. 98.15
 H2... 0.21
 OTHER ANALYTICAL DATA... OTHER DATA (MOLE %): C3H8=0.01, NH3=0.01, GASES IN STEAM PHASE ONLY.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... OPRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... COSNER AND APPS, 1978.

ISOTOPES (00/01)

RECORD 00145

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... BUDDHIST SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SANDOVAL
 GEOLOGIC PROVINCE.. SAN JUAN BASIN
 MAP REFERENCE..... JEMEZ SPRINGS 1:24000
 OTHER LOCALITY INFORMATION: SPRING FLOWS FROM MAIN POOL BY JEMEZ RIVER; LOCATION APPROXIM.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1979/01/03
 SAMPLE NUMBER..... VA-8
 TEMPERATURE (C)..... 49.
 DISCHARGE..... 4. L/MIN
 PERTINENT LITHOLOGY..... ALLUVIUM; PALEOZOIC ROCKS

COORDINATES
 LAT/LONG... 35-46.5 N 106-41. W

WATER ANALYSIS

PH..... 6.38
 CHARGE IMBALANCE (% DIFF)... 0.0
 ANALYSIS IN MG/L
 AG..... CO3..... 7.56
 AL..... CR..... 9.57
 AS..... CS..... 0.24
 H..... F..... 3.86
 HE..... FE(TOT)... 0.18
 CA..... HC03..... 697.
 CL..... K..... 53.

REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R.H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GOFF AND OTHERS, 1981

RECORD 00146
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... BUDDHIST SPRINGS
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SANDOVAL
 GEOLOGIC PROVINCE... 26
 MAP REFERENCE..... JEMEZ SPRINGS 1:24000
 OTHER LOCALITY INFORMATION: SPRING FLOWS FROM MAN-MADE POOL BY JEMEZ RIVER; LOCATION APPROXIMATE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1979/01/19
 SAMPLE NUMBER..... VA-16
 TEMPERATURE (C)..... 50.
 DISCHARGE..... 4. L/MIN
 PERTINENT LITHOLOGY..... ALLUVIUM; PALEOZOIC ROCKS

WATER ANALYSIS
 PH..... 6.59
 CHARGE IMBALANCE (% DIFF)... 0.7
 ANALYSIS IN MG/L
 AG..... CO3..... 6.06
 AL..... CR..... 7.5
 AS..... CS..... 0.19
 H..... F..... 3.76
 HE..... FE(TOT)... 0.16
 CA..... HC03..... 708.
 CL..... K..... 57.8

REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R.H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GOFF AND OTHERS, 1981

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... GRUTTU SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SANDOVAL
 GEOLOGIC PROVINCE... 26
 MAP REFERENCE..... JEMEZ SPRINGS 1:24000
 OTHER LOCALITY INFORMATION: SPRING FLOWS FROM MAN-MADE POOL BY JEMEZ RIVER; LOCATION APPROXIMATE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1979/01/19
 SAMPLE NUMBER..... VA-16
 TEMPERATURE (C)..... 50.
 DISCHARGE..... 4. L/MIN
 PERTINENT LITHOLOGY..... ALLUVIUM; PALEOZOIC ROCKS

WATER ANALYSIS
 PH..... 6.59
 CHARGE IMBALANCE (% DIFF)... 0.7
 ANALYSIS IN MG/L
 AG..... CO3..... 6.06
 AL..... CR..... 7.5
 AS..... CS..... 0.19
 H..... F..... 3.76
 HE..... FE(TOT)... 0.16
 CA..... HC03..... 708.
 CL..... K..... 57.8

REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R.H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GOFF AND OTHERS, 1981

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... GRUTTU SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SANDOVAL
 GEOLOGIC PROVINCE... 26
 MAP REFERENCE..... JEMEZ SPRINGS 1:24000
 OTHER LOCALITY INFORMATION: SPRING FLOWS FROM MAN-MADE POOL BY JEMEZ RIVER; LOCATION APPROXIMATE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1979/01/19
 SAMPLE NUMBER..... VA-16
 TEMPERATURE (C)..... 50.
 DISCHARGE..... 4. L/MIN
 PERTINENT LITHOLOGY..... ALLUVIUM; PALEOZOIC ROCKS

WATER ANALYSIS
 PH..... 6.59
 CHARGE IMBALANCE (% DIFF)... 0.7
 ANALYSIS IN MG/L
 AG..... CO3..... 6.06
 AL..... CR..... 7.5
 AS..... CS..... 0.19
 H..... F..... 3.76
 HE..... FE(TOT)... 0.16
 CA..... HC03..... 708.
 CL..... K..... 57.8

REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R.H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GOFF AND OTHERS, 1981

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... GRUTTU SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SANDOVAL
 GEOLOGIC PROVINCE... 26
 MAP REFERENCE..... JEMEZ SPRINGS 1:24000
 OTHER LOCALITY INFORMATION: SPRING FLOWS FROM MAN-MADE POOL BY JEMEZ RIVER; LOCATION APPROXIMATE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1979/01/19
 SAMPLE NUMBER..... VA-16
 TEMPERATURE (C)..... 50.
 DISCHARGE..... 4. L/MIN
 PERTINENT LITHOLOGY..... ALLUVIUM; PALEOZOIC ROCKS

WATER ANALYSIS
 PH..... 6.59
 CHARGE IMBALANCE (% DIFF)... 0.7
 ANALYSIS IN MG/L
 AG..... CO3..... 6.06
 AL..... CR..... 7.5
 AS..... CS..... 0.19
 H..... F..... 3.76
 HE..... FE(TOT)... 0.16
 CA..... HC03..... 708.
 CL..... K..... 57.8

REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R.H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GOFF AND OTHERS, 1981

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... GRUTTU SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SANDOVAL
 GEOLOGIC PROVINCE... 26
 MAP REFERENCE..... JEMEZ SPRINGS 1:24000
 OTHER LOCALITY INFORMATION: SPRING FLOWS FROM MAN-MADE POOL BY JEMEZ RIVER; LOCATION APPROXIMATE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1979/01/19
 SAMPLE NUMBER..... VA-16
 TEMPERATURE (C)..... 50.
 DISCHARGE..... 4. L/MIN
 PERTINENT LITHOLOGY..... ALLUVIUM; PALEOZOIC ROCKS

LAT/LONG... 35-47.5 N 106-41. W

COUNTRY..... UNITED STATES 16N 002E
STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

COUNTY..... SANDOVAL
GEOLOGIC PROVINCE..... SAN JUAN BASIN

MAP REFERENCE..... JEMEZ SPRINGS 1:24000

OTHER LOCALITY INFORMATION: SPRING FLOWS FROM CAVE ON EAST SIDE OF SODA SPRING DAM.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 38.

DISCHARGE..... 12. L/MIN

PERTINENT LITHOLOGY..... PALEOZOIC ROCKS

WATER ANALYSIS

DATE/ANALYST..... HUSLEK, JOHN

PH..... 6.8

CHARGE IMBALANCE (% DIFF).... 18.9

ANALYSIS IN MG/L

| | | | |
|---------|------------|--------|-------|
| AG..... | CO3..... | LI.... | 13.2 |
| AL..... | CH..... | MG.... | 27. |
| AS..... | CS..... | MN.... | 0.5 |
| B..... | F..... | NA.... | 1000. |
| HE..... | FE(TOT)... | SI02.. | 44. |
| CA..... | HC03..... | SO4... | 504.. |
| CL..... | K..... | NB.... | 41. |

REFERENCE AND IDENTIFICATION

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

COMPILER AFFILIATION.... U.S. GEOLOGICAL SURVEY

REFERENCE..... GOFF AND SAYER, 1980

RECORD 00148

GEOTHERM FILE ID: 0001655

LAT/LONG... 35-35.5 N 106-45.2 W

COUNTRY..... UNITED STATES 16N 002E 29 NE OF SE OF NW
STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

COUNTY..... SANDOVAL

GEOLOGIC PROVINCE.. 25

MAP REFERENCE..... SAN YSIDRO 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/08/30

TEMPERATURE (C)..... 51.

DISCHARGE..... 36. L/MIN

WATER ANALYSIS

PH..... 8.6

SPECIFIC CONDUCTANCE..... 5694.

TOTAL DISSOLVED SOLIDS.... 3770.

CHARGE IMBALANCE (% DIFF).... 5.0

ANALYSIS IN PPM

| | | | |
|---------|------------|--------------|-------|
| AG..... | CO3..... | LI.... | 6.7 |
| AL..... | CH..... | MG.... | 21. |
| AS..... | CS..... | MN.... | 1.30 |
| B..... | F..... | NA.... | 1300. |
| HE..... | FE(TOT)... | SI02.. | 68. |
| BR..... | | SO4... 504.. | 270. |

ISOLOPES 10/001

CA.... 110. HCO3.... 1440. P04... 0.34
 CD.... H2S.....
 CL.... 1200. K..... 73.
 CO.....

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

RECORD 00149

GEOTHERM FILE ID: 0001750

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... JEMEZ SPRINGS (MAIN ORIFICE)
 LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 35-46.5 N 106-41. W

COUNTRY..... UNITED STATES B&M: NEW MEXICO PRINCIPAL
 STATE..... NEW MEXICO
 COUNTY..... SANDOVAL

GEOLOGIC PROVINCE.. SAN JUAN BASIN

MAP REFERENCE..... JEMEZ SPRINGS 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE: SPRING DISCHARGES FORM CONCRETE TANK UN ER GAZEBO.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1979/01/04

SAMPLE NUMBER..... VA-10

TEMPERATURE (C)..... 55.

DISCHARGE..... E 20. L/MIN

PERTINENT LITHOLOGY..... ALLUVIUM; PALEOZOIC ROCKS

WATER ANALYSIS

PH..... 7.01

CHARGE IMBALANCE (% DIFF)... 4.2

ANALYSIS IN MG/L

| | | | | | |
|--------------|------------|--------|-------|--------|------|
| AG.... | CO3.... | LI.... | 10.10 | S.... | |
| AL.... 0.013 | CR.... | MG.... | 5.4 | SB.... | |
| AS.... | CS.... | MN.... | 0.17 | | |
| H.... 7.86 | F.... | NA.... | 656. | SI02. | 93. |
| HE.... | FE(TOT)... | NB.... | | S04.. | 49.9 |
| CA.... 152. | HC03.... | | | | |
| CL.... 904. | | | | | |
| CO.... | K.... | | 74.2 | | |

ISOLOPES (10/2001)

DEL D OF WATER..... -82.3
 DEL O(18) OF WATER... -10.6

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R.H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GOFF AND OTHERS, 1981

RECORD 00150

GEOTHERM FILE ID: 0001755

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... JEMEZ SPRINGS (MAIN ORIFICE)
 LOCATION TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 35-46.5 N 106-41. W

COUNTRY..... UNITED STATES B&M: NEW MEXICO PRINCIPAL
 STATE..... NEW MEXICO
 COUNTY..... SANDOVAL

GEOLOGIC PROVINCE.. SAN JUAN BASIN

MAP REFERENCE..... JEMEZ SPRING 1:24000

OTHER LOCALITY INFORMATION: DISCHARGES FROM CONCRETE TANK UNDER GAZEBO: C02 GIVEN OFF.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1979/01/19

SAMPLE NUMBER..... VA-18
 TEMPERATURE (C)..... 35.5
 DISCHARGE..... E 2. L/MIN
 PERTINENT LITHOLOGY..... ALLUVIUM; PALEOZOIC ROCKS
 WATER ANALYSIS

PH..... 7.51
 CHARGE IMBALANCE (% DIFF).... 1.7
 ANALYSIS IN MG/L

| | | | | | |
|---------|-------|------------|------|---------|-------|
| AG..... | 0.014 | CO3..... | 9.00 | S..... | -81.4 |
| AL..... | | CR..... | 4.52 | SB..... | -10.4 |
| AS..... | | CS..... | 0.1 | | |
| H..... | 8.03 | F..... | 690. | SI02.. | 85. |
| HE..... | | FE(TOT)... | 5.19 | S04... | 45.4 |
| CA..... | 115. | FE(TOT)... | 0.02 | | |
| CL..... | 968. | HC03..... | 699. | | |
| CO..... | | CL..... | | | |
| K..... | 74. | | | | |

REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R.H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GOFF AND OTHERS, 1981

GEOTHERM SAMPLE FILE..... JEMEZ SPRINGS (OJOS CALIENTES)
 LOCATION..... TOWNSHIP=RANGE
 RECORD 00151
 GEOTHERM FILE ID: 0000671

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SANDOVAL
 GEOLOGIC PROVINCE.. SAN JUAN BASIN
 MAP REFERENCE..... JEMEZ SPRINGS 1:24000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.
 SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1949/08/31
 TEMPERATURE (C)..... 66.0

WATER ANALYSIS
 DATE/ANALYST..... 1949/08/00

PH..... 7.2
 SPECIFIC CONDUCTANCE..... 3560.
 TOTAL DISSOLVED SOLIDS... 2150.
 CHARGE IMBALANCE (% DIFF).... 4.8
 ANALYSIS IN PPM

| | | | | | |
|---------|------|------------|------|--------|-----|
| AG..... | | CO3..... | 6.6 | SI02.. | 93. |
| AL..... | | CR..... | 572. | S04... | 49. |
| AS..... | 11. | F..... | 5.2 | | |
| H..... | | FE(TOT)... | 0.03 | | |
| CA..... | 138. | HC03..... | 735. | NO3.. | 0.8 |
| CL..... | 795. | CL..... | | | |
| CO..... | | K..... | 70. | | |

REFERENCE AND IDENTIFICATION
 COMPILED BY..... PATTERSON, E. RENNER, J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMER, 1965

COORDINATES
 LAT/LONG... 35-47. N 106-41. W
 UTM ZONE... 13
 NORTHING... 3961025.
 347861.

ISOTOPES 10/001

RECORD 00152

GEOTHERM FILE ID: 0001752

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... JEMEZ WELL - 500 FT. AQUIFER

LOCATION TOWNSHIP=RANGE

COUNTRY... UNITED STATES B6M: NEW MEXICO PRINCIPAL

STATE... NEW MEXICO

COUNTY... SANDOVAL

GEOLOGIC PROVINCE... SAN JUAN BASIN

MAP REFERENCE... JEMEZ SPRINGS 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE: WELL DRILLED NORTH OF MAIN JEMEZ SPRING OW ABANDONED.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1979/01/19

SAMPLE NUMBER... VA-15

TEMPERATURE (C)... 60.5

DISCHARGE... RU. L/MIN

PERTINENT LITHOLOGY... PALEOZOIC ROCKS

WATER ANALYSIS

PH... 6.69

CHARGE IMBALANCE (% DIFF)... 1.4

ANALYSIS IN MG/L

AG... CO3... 2.27 S... 9.31

AL... CR... 0.02 SB... 185.

AS... CS... 3.3 SI02... 24.

B... F... 0.39 NA... 38.

C... FE(TOT)... 479.

CL... HCO3... 29.9

CO... K... 29.9

REFERENCE AND IDENTIFICATION

COMPILED BY... MARINER, R.H.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE... GOFF AND OTHERS, 1981

ISOLOPES 10/2001

DEL D OF WATER... -85.9

DEL O(18) OF WATER... -11.8

RECORD 00153

GEOTHERM FILE ID: 0001756

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... JEMEZ WELL - 80 FT. AQUIFER

LOCATION TOWNSHIP=RANGE

COUNTRY... UNITED STATES B6M: NEW MEXICO PRINCIPAL

STATE... NEW MEXICO

COUNTY... SANDOVAL

GEOLOGIC PROVINCE... SAN JUAN BASIN

MAP REFERENCE... JEMEZ SPRINGS 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE: WELL DRILLED NORTH OF MAIN JEMEZ SPRING OW ABANDONED.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1979/01/19

SAMPLE NUMBER... VA-19

TEMPERATURE (C)... 68.

DISCHARGE... 120. L/MIN

PERTINENT LITHOLOGY... PALEOZOIC ROCKS

WATER ANALYSIS

PH... 6.64

CHARGE IMBALANCE (% DIFF)... 4.1

ANALYSIS IN MG/L

ISOLOPES 10/2001

DEL D OF WATER..... -84.0
DEL O(18) OF WATER... -11.8

S....
SB....
S102.
S04..

6.96
5.76
0.11
546.

LI....
MG....
MN....
NA....
NB....

4.42
0.39
642.

CO3.....
CR.....
CS.....
F.....
FE(TO)..
HCO3.....

AG.....
AL.....
AS.....
H.....
HE.....
CA.....
CL.....
CO.....

K..... 61.6

REFERENCE AND IDENTIFICATION
COMPILED BY..... MARINER, R.H.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... GOFF AND OTHERS, 1981

RECORD 00154

GEOTHERM FILE ID: 0001653

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... KASEMAN NO. 2 (WARM SPRINGS)
WELL/SPRING NUMBER..... 16N-01W-01-421

LOCATION
COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... SANDOVAL
GEOLOGIC PROVINCE.. 25

MAP REFERENCE..... HOLY GHOST SPRING 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1974/12/02

TEMPERATURE (C)..... 53.

WELL DEPTH (M)..... 612.

DISCHARGE..... 322. L/MIN

OTHER SAMPLE INFORMATION.. FIRST FLOW OF THERMAL WATER AT 139.5 M; MAX TEMP 61 C AT 585 M. DISCHARGE DECREASED FROM 9462 L/MIN(1927) TO 322 L/MIN(1973)

WATER ANALYSIS

PH..... 6.4

SPECIFIC CONDUCTANCE..... 13800.

CHARGE IMBALANCE (% DIFF).... 2.4

ANALYSIS IN MG/L

AL.....

H..... 7.0

HE.....

CA..... 340.

CL..... 3180.

CO.....

K..... 80.

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... *DATA SOURCE UNKNOWN

RECORD 00155

GEOTHERM FILE ID: 0001654

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... KASEMAN NO.1
WELL/SPRING NUMBER..... 16N-01E-07-100

LOCATION
COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... SANDOVAL

TOWNSHIP=RANGE
16N 001E 08
BSM: NEW MEXICO PRINCIPAL

COORDINATES
LAT/LONG... 35-38.1 N 106-51.6 W

RECORD 00156

GEUTHERM FILE ID: 0016635

COORDINATES
LAT/LONG... 35-53.0 N 106-40.4 W

TOWNSHIP=RANGE
19N 002E 13 NE

WELL DEPTH (FT.)..... 2928.
OTHER SAMPLE INFORMATION.. SAMPLE REPRESENTATIVE OF WATER IN THE LOWER MADERA LIMESTONE FORMATION. THIS FLUID WILL NOT BE USED IN RECOVERY OF GEOTHERMAL HEAT.

USJOEFS (0/00)

| | | | |
|-------|------|-------|------|
| MG... | 42. | SI02. | 115. |
| NA... | 550. | S04.. | 200. |
| NA... | | | |

CL... 400.
REFERENCE AND IDENTIFICATION
COMPILED BY..... SILVA, CHRISTOPHER L.

COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... CUSNER AND APPS, 1978.

RECORD 00157

GEOTHERM FILE ID: 0001742

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... LITTLE SPENCE HOT SPRING

WELL/SPRING NUMBER..... 19N-03E-28-000

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... SANDOVAL

GEOLOGIC PROVINCE.. SAN JUAN BASIN

MAP REFERENCE..... JEME7 SPRING 1162500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 34.

DISCHARGE..... 28. L/MIN

WATER ANALYSIS

DATE/ANALYST..... HUSLER, JOHN

PH..... 6.2

CHARGE IMBALANCE (% DIFF).... 2.5

ANALYSIS IN MG/L

AG.....

AL.....

AS.....

H..... 0.13

RE.....

CA..... 8.8

CL..... 7.

CO..... K..... 1.5

REFERENCE AND IDENTIFICATION

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

COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... GOFF AND SAYER, 1980

ISOLOPES 10/001

LI.... 0.66

MG.... 1.9

MN.... L 0.02

NA.... 56.

NB....

SI02. 67.

S04... 25.

RECORD 00158

GEOTHERM FILE ID: 0001743

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... MCCAULEY SPRING

WELL/SPRING NUMBER..... 19N-03E-32-000

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... SANDOVAL

GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... JEME7 SPRINGS 1124000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 31.

DISCHARGE..... 140. L/MIN

PERMITMENT LITHOLOGY..... VOLCANIC PALEOZOIC ROCKS

WATER ANALYSIS

DATE/ANALYST..... HUSLER, JOHN

PH..... 6.2

CHARGE IMBALANCE (% DIFF).... 6.1

ANALYSIS IN MG/L

AG.....

CO3.....

LI.... 0.24

ISOLOPES 10/001

AL..... CR..... MG.... 4.9
 AS..... CS..... MN.... L 0.02
 H..... F..... 0.85 18.
 HF..... FE(TOT) L 0.04 56.
 CA..... HCO3..... 86. 7.
 CL.....
 CO..... K..... 0.8
 CO.....
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R.H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GOFF AND SAYER, 1980

RECORD 00159

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... MCCAULEY SPRING
 WELL/SPRING NUMBER..... 19N-03E-32-000
 LOCATION

GEOTHERM FILE ID: 0001657

COUNTRY..... UNITED STATES 19N 003E 04 NE OF NE SW
 STATE..... NEW MEXICO BLM: NEW MEXICO PRINCIPAL
 COUNTY..... SANDOVAL
 GEOLOGIC PROVINCE.. SAN JUAN BASIN
 MAP REFERENCE..... JEMEZ SPRINGS 1:24000
 SAMPLE DESCRIPTION... JEMEZ SPRINGS 1:24000
 DATE/COLLECTOR..... 1973/01/16
 TEMPERATURE (C)..... 32.
 DISCHARGE..... 1393. L/MIN
 PERTINENT LITHOLOGY..... VOLCANIC SEDIMENTS.

COORDINATES

LAT/LONG... 35-49.20 N 106-37.61 W

WATER ANALYSIS

PH..... 8.0
 SPECIFIC CONDUCTANCE..... 165.
 TOTAL DISSOLVED SOLIDS... 0.49
 CHARGE IMBALANCE (% DIFF)... 9.6
 ANALYSIS IN PPM

AG..... CO3..... N
 AL..... CR..... MG.... 4.7
 AS..... CS..... MN.... N 19.
 H..... F..... 1.0 56.
 HE..... FE(TOT) 0.02 6.6
 CA..... HCO3..... 94.
 CU..... H2S.....
 CL..... 3.8
 CO..... K..... 0.9
 CO.....

ISOTOPE 10/001

REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

RECORD 00160

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... PHILLIPS SPRINGS
 WELL/SPRING NUMBER..... 15N-01E-05-140
 LOCATION

GEOTHERM FILE ID: 0001652

COUNTRY..... UNITED STATES 15N 001E 05 SE OF NW
 STATE..... NEW MEXICO BLM: NEW MEXICO PRINCIPAL
 COORDINATES
 LAT/LONG... 35-36.13 N 106-51.55 W

COUNTY..... SAN JOAQUIN
GEOLOGIC PROVINCE.. 25
MAP REFERENCE..... SAN JOAQUIN 1:24000

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1924/09/24

TEMPERATURE (C)..... 21. L/MIN
DISCHARGE.....

DEPOSITS OR ALTERATION..... TRAVERTINE MOUNDS
OTHER SAMPLE INFORMATION... MANY EXTINCT SPRING CRATERS

WATER ANALYSIS

TOTAL DISSOLVED SOLIDS... 7510.

ANALYSIS IN PPM

| | | | | | |
|---------|-----------|----------|-------|-------|-----|
| AL..... | CR..... | MG.... | 70. | SI02. | 30. |
| HA..... | F..... | NA.... | | | |
| HA..... | FE+J.... | NA+K. | 2400. | | |
| HA..... | FE(TOT). | NO.... | | | |
| CA..... | HC03..... | NO3... I | | | |
| CL..... | | | | | |

ISOTOPES 10/2001

GAS ANALYSIS

DATE/ANALYST.....

ANALYSIS IN PPM

| | | |
|--------|----------|------|
| CH4... | H2S... N | |
| C2H6.. | N2.... | 21.3 |
| | O2.... | 8.3 |

ISOTOPES 10/2001

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... RENICK, 1931

RECORD 00161

GEOGRAPHIC SAMPLE FILE

NAME OF SAMPLE SOURCE... SAN ANTONIO HOT SPRINGS
WELL/SPRING NUMBER..... 20N-03E-29-120

LOCATION

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... SANDOVAL

GEOLOGIC PROVINCE.. SAN JUAN BASIN
MAP REFERENCE..... SEVEN SPRINGS 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/05/16

TEMPERATURE (C)..... 46.

DISCHARGE..... 1222. L/MIN

OTHER SAMPLE INFORMATION.. FRACTURES IN RHYOLITE PORPHYRY. NEARBY SPRING HAS REPORTED TEMP. 49 C, 155 L/MIN

WATER ANALYSIS

PH..... 7.7

SPECIFIC CONDUCTANCE..... 122.

CHARGE IMBALANCE (% DIFF)... 1.6

ANALYSIS IN PPM

| | | | | | |
|---------|------------|--------|-----|-------|-----|
| AG..... | CO3..... N | MG.... | 0.3 | SI02. | 76. |
| AL..... | CR..... | MN.... | | | |
| AS..... | CS..... | NA.... | 23. | SI02. | 76. |
| HA..... | F..... | NO.... | | | |
| HA..... | FE(TOT). | | | | |
| HA..... | | | | | |

ISOTOPES 10/2001

GEOGRAPHIC FILE 10: 0001658

COORDINATES

LAT/LONG... 35-56.28 N 106-38.72 W

CA.... 4./ HC03... 61. PU4... 0.21
 CD.... H2S.....
 CL.... 2.3 K..... 2.0
 CO.....
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

RECORD 00162

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... SAN ANTONIO HOT SPRINGS
 WELL/SPRING NUMBER..... 20N-03E-29-120

GEOTHERM FILE ID: 0001744

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SANDOVAL
 GEOLOGIC PROVINCE... SAN JUAN BASIN
 MAP REFERENCE..... JEMEZ SPRINGS 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 42.
 DISCHARGE..... 160. L/MIN
 PERTINENT LITHOLOGY..... VOLCANIC ROCKS

COORDINATES
 LAT/LONG... 35-56.33 N 106-38.60 W

TOWNSHIP-RANGE
 20N 003E 29
 B&M; NEW MEXICO PRINCIPAL

DATE/ANALYST..... HUSLER, JOHN

PH..... 6.8
 CHARGE IMBALANCE (% DIFF)... 5.8
 ANALYSIS IN MG/L
 AG.....
 AL.....
 AS.....
 H..... L 0.05
 RE.....
 CA..... 2.3
 CL..... 2.
 CO..... K..... 1.7

ISOLOPES 10/001

LI... L 0.02
 MG... 0.3
 MN... 0.02
 NA... 21.
 SI02... 79.
 SO4... 7.

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R.H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GOFF AND SAYER, 1980

RECORD 00163

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... SAN ANTONIO WARM SPRING
 WELL/SPRING NUMBER..... 20N-04E-07-000

GEOTHERM FILE ID: 0001659

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SANDOVAL
 GEOLOGIC PROVINCE... SAN JUAN BASIN
 MAP REFERENCE..... VALLE SAN ANTONIO 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/11/01
 TEMPERATURE (C)..... 37.

COORDINATES
 LAT/LONG... 35-58.28 N 106-33.62 W

TOWNSHIP-RANGE
 20N 004E 07
 B&M; NEW MEXICO PRINCIPAL

DISCHARGE..... 59. L/MIN
PERTINENT LITHOLOGY..... RHYOLITE TUFF
OTHER SAMPLE INFORMATION.. MAX TEMP 38 C

DISCHARGE..... 59. L/MIN
PERTINENT LITHOLOGY..... RHYOLITE TUFF
OTHER SAMPLE INFORMATION.. MAX TEMP 38 C

| | |
|---------------------------|-------|
| SPECIFIC GRAVITY..... | 0.989 |
| SPECIFIC CONDUCTANCE..... | 125. |
| TOTAL DISSOLVED SOLIDS... | 265. |
| ANALYSIS IN PPM | |

| | | | |
|-------|-------|-------|--------|
| LI... | 0.07 | | |
| MG... | 0.05 | | |
| MN... | 0.062 | | |
| MO... | | SE... | N 107. |
| NA... | 57. | SI02. | |

| Parameter | Value | Unit |
|-----------|-------|------|
| HR | 0.19 | |
| CA | 6 | |
| CI | 8 | |
| CO | 23 | |
| HC03 | 0.021 | |
| H2S | 4.2 | |
| K | 0.003 | |

QUALIFICATION FIELD... DENSITY AT 20 C (MG/L).
REFERENCE AND IDENTIFICATION
COMPILED BY... BROOK, C.A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE... SUMMERS, 1976

RECORD 00164

GEOTHERM FILE ID: 0002958

NAME OF SAMPLE SOURCE... SAN YSIORO - UNNAMED MINERAL SPRING
WELL/SPRING NUMBER..... 15N-01E-16-310

UNITED STATES
COUNTRY.....
TOWNSHIP-RANGE
15N 00E 16
NW OF SW

COORDINATES
LAT/LONG... 35-31.7 N 106-50.8 W

OF GEOLOGIC PROVINCE.: SAN JOAN BASIN

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 11.0

DEPOSITS OR ALTERATION.... SPRING ISSUES FROM SIDE OF LARGE TRAVERTINE MOUND. OTHER SAMPLE INFORMATION.. SPRING RELEASES A GREAT DEAL OF GAS.

| | |
|------------------------------|--------|
| PM..... | 7.27 |
| ATKALINITY..... | 2265. |
| TOTAL DISSOLVED SOLIDS.... | 13002. |
| CHARGE IMBALANCE (% DIFF)... | 0.3 |

| ANALYSIS IN MG/L | | | | | |
|------------------|-----------|--------|-------|--------------|--|
| AG..... | CO3..... | LI.... | 6.3 | S.... | |
| AL..... | CR..... | MG.... | 110. | SB.... | |
| AS..... | CS..... | MN.... | 0.05 | | |
| AU..... | CU..... | | | | |
| B..... | F..... | NA.... | 3800. | SI02. | |
| H..... | FE(TOT) L | NB.... | 0.04 | 504.. | |
| HF..... | UF..... | NI.... | | 18. 3700. | |
| HR..... | HC03.... | | | | |
| CA..... | K..... | RH.... | 0.64 | ZN.... | |
| CL..... | | | | 0.05 | |
| CO..... | | | | | |

| <u>ISOIOPES 10/001</u> | |
|------------------------|--------|
| VEL U OF WATER..... | -85.6 |
| DEL O(18) OF WATER... | -10.01 |

REFERENCE AND IDENTIFICATION

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

RECORD 00165

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... SAN YSIDRO - UNNAMED SPRING
 LOCATION

COORDINATES
 LAT/LONG... 35-32.88 N 106-49.62 W

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SANDOVAL
 GEOLOGIC PROVINCE... SAN JUAN BASIN
 MAP REFERENCE..... SAN YSIDRO 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1964/03/14

TEMPERATURE (C)..... 24.0
 PERTINENT LITHOLOGY..... SANDSTONE IN CHINLE FORMATION.
 WATER ANALYSIS

PH..... 7.6
 SPECIFIC CONDUCTANCE..... 8560.
 TOTAL DISSOLVED SOLIDS..... 5510.
 CHARGE IMBALANCE (% DIFF).... 1.4
 ANALYSIS IN MG/L
 AG..... CO3..... N
 AL..... CR..... 6.4
 H..... F..... 70.
 RE..... FE(TOT) N
 CA..... HCO3..... 1080.
 CL..... 1680.
 CO..... K..... 71.
 LI..... 6.4
 MG..... 70.
 NA..... 1760.
 NB.....
 SI02..... 15.
 SO4... 1220.

ISOIPES 102001

REFERENCE AND IDENTIFICATION

COMPILED BY..... TESHIN, VICTOR
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... *U.S. GEOLOGICAL SURVEY

RECORD 00166

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... SAN YSIDRO - UNNAMED WARM SPRING
 LOCATION

COORDINATES
 LAT/LONG... 35-32.6 N 106-49.8 W

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SANDOVAL
 GEOLOGIC PROVINCE... SAN JUAN BASIN
 MAP REFERENCE..... SAN YSIDRO 1124000
 OTHER LOCALITY INFORMATION: ON NORTH SIDE OF SALADO RIVER.
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 15.0
 DEPOSITS OR ALTERATION..... THIN TRAVERTINE MOUND.
 OTHER SAMPLE INFORMATION.. SMALL GASSY SPRING.
 WATER ANALYSIS

PH..... 6.33
 ALKALINITY..... 2005. AS HCU3

RECORD 002960

TOTAL DISSOLVED SOLIDS... 7653.
CHARGE IMBALANCE (% DIFF)... 0.9
ANALYSIS IN MG/L

AG..... CO3.....
AL..... CR.....
AS..... CS..... 0.4
AU..... CU..... 0.01
H..... F..... 3.4
HE..... FE(TOT)... 0.14
HR..... GE.....
CA..... HCO3..... 2005.
CA+MG..... L 0.0001
CL.....

CO..... K..... 83.
REFERENCE AND IDENTIFICATION
COMPILED BY..... TESHIN, VICTOR
COMPILED BY..... U.S. GEOLOGICAL SURVEY
COMPILED BY..... MARINER AND OTHERS, 1977A
REFERENCE.....

ISOLOPES 10/001
DEL O OF WATER..... -86.5
DEL O(18) OF WATER... -10.12

LI.... S....
MG.... SB....
MN....
NA.... SI02... 20.
NB.... S04... 1200.
NI....

RB.... 0.49 ZN.... 0.02

RECORD 00167

GEOTHERM FILE ID: 0001746

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SODA DAM SPRING
WELL/SPRING NUMBER..... 18N-02E-14-000

LOCATION.....
COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... SANDOVAL
GEOLOGIC PROVINCE... SAN JUAN BASIN
MAP REFERENCE..... JEMEZ SPRINGS 1124000

SHIP-RANGE 18N 002E 14
B&M: NEW MEXICO PRINCIPAL

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 47.
DISCHARGE..... 60. L/MIN
PERTINENT LITHOLOGY..... PALEOZOIC ROCKS

DATE/ANALYST..... HUSLER, JOHN

PH..... 6.2
CHARGE IMBALANCE (% DIFF)... 18.3
ANALYSIS IN MG/L

AG..... CO3.....
AL..... CR.....
AS..... CS.....
H..... F..... 4.1
HE..... FE(TOT)... 0.11
CA..... HCO3..... 886.
CL.....

CO..... K..... 174.

REFERENCE AND IDENTIFICATION
COMPILED BY..... MARINER, R.H.
COMPILED BY..... U.S. GEOLOGICAL SURVEY
COMPILED BY..... GOFF AND OTHERS, 1981
REFERENCE.....

ISOLOPES 10/001

COORDINATES

LAT/LONG... 35-47.6 N 106-41.1 W

LI.... 13.2
MG.... 26.
MN.... 0.55
NA.... 1010.
NB.... SI02... 43.
S04... 37.

RECORD 00168

GEOTHERM FILE ID: 0001749

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SODA DAM SPRING
 LOCATION
 COUNTRY... UNITED STATES
 STATE... NEW MEXICO
 COUNTY... SANDOVAL
 GEOLOGIC PROVINCE... 26
 MAP REFERENCE... JEMEZ SPRINGS 1:24000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE; MAIN SPRING, DISCHARGES FROM FAULTED PA EZOIC SEDIMENTS IN JEMEZ
 FAULT ZONE

TOWNSHIP=RANGE

COORDINATES
 LAT/LONG... 35-47.5 N 106-41. W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1979/01/04

SAMPLE NUMBER... VA-9

TEMPERATURE (C)... 48.

DISCHARGE... 60. L/MIN

PERTINENT LITHOLOGY... PALEOZOIC ROCKS

WATER ANALYSIS

PH... 6.40

CHARGE IMBALANCE (% DIFF)... 2.7

ANALYSIS IN MG/L

AG... CO3...

AL... CR...

AS... CS...

H... F... 3.67

HE... FE(TO)... 0.14

CA... HCO3... 1514.

CL... 1503.

CO... K... 183.

REFERENCE AND IDENTIFICATION

COMPILED BY... MARINER, R.H.

COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE... GOFF AND OTHERS, 1981

ISOTOPES 10/0001

DEL D OF WATER... -84.9
 DEL O(18) OF WATER... -10.6

LI... 13.20 S... 50.

MG... 24.4 SB... 38.4

MN... 0.47

NA... 938.

NB... S102.

S04...

RECORD 00169

GEOTERM FILE ID: 0001656

GEOTERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SODA DAM SPRINGS

WELL/SPRING NUMBER... 18N-02E-14-000

LOCATION

COUNTRY... UNITED STATES

STATE... NEW MEXICO

COUNTY... SANDOVAL

GEOLOGIC PROVINCE... SAN JUAN BASIN

MAP REFERENCE... JEMEZ SPRINGS 1:24000

OTHER LOCALITY INFORMATION: WEST WALL OF "SAN DIEGO CANYON" ABOUT 25 FT ABOVE THE "JEMEZ RIVER".

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1972/12/01

TEMPERATURE (C)... 47.8

DISCHARGE... 235. L/MIN

WATER ANALYSIS

PH... 6.1

SPECIFIC CONDUCTANCE... 6160.

TOTAL DISSOLVED SOLIDS... 3740.

CHARGE IMBALANCE (% DIFF)... 1.5

ANALYSIS IN PPM

AG... CO3... 0.3

AL... CR... 13.

MG... 24.

COORDINATES

LAT/LONG... 35-47.49 N 106-41.18 W

ISOTOPES 10/0001

| | | | | | | | | |
|---------|-------|-----------|-------|--------|------|--------|---|-----|
| AS..... | 1.5 | CS..... | | MN.... | 0.55 | SE.... | N | 59. |
| AU..... | | CU..... | | MO.... | | SI02.. | | 52. |
| W..... | 12.5 | F..... | 3.3 | NA.... | 990. | S04... | | |
| WE..... | | FE(TOT).. | 0.04 | NB.... | | | | |
| HR..... | 6.9 | | | | | | | |
| CA..... | 330. | HCO3..... | 1578. | PO4... | 0.26 | | | |
| CO..... | | H2S..... | | | | | | |
| CL..... | 1500. | K..... | 200. | | | | | |

GAS ANALYSIS

ANALYSIS

CH4... 0.01

C2H6.. 90.2

CO2... 90.2

H2.... N

QUALIFICATION FIELD..... GAS ANAL: 02 = 02 + AR.

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... SUMMERS, 1976

ISOTOPES 100701

RECORD 00170

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SPENCE HOT SPRING

WELL/SPRING NUMBER..... 19N-03E-28-310

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... SANDOVAL

GEOLOGIC PROVINCE.. SAN JUAN BASIN

MAP REFERENCE..... JEMEZ SPRINGS 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... VA-1

TEMPERATURE (C)..... 45.

DISCHARGE..... 60. L/MIN

PERTINENT LITHOLOGY..... ALLUVIUM AND VOLCANIC ROCKS

WATER ANALYSIS

DATE/ANALYST..... HUSLER, JOHN

PH..... 6.7

CHARGE IMBALANCE (% DIFF)... 7.5

ANALYSIS IN MG/L

| | | | |
|---------|-----------|--------|--------|
| AG..... | CO3..... | LI.... | 0.66 |
| AL..... | CH..... | MG.... | 1.9 |
| AS..... | CS..... | MN.... | L 0.02 |
| H..... | F..... | NA.... | 50. |
| HE..... | FE(TOT).. | NB.... | |
| CA..... | | | |
| CL..... | HCO3..... | | |
| CO..... | | | |
| | K..... | | 1.3 |

ISOTOPES 107001

COORDINATES

LAT/LONG... 35-50.33 N 106-37.40 W

GEO THERM FILE ID: 0001741

REFERENCE AND IDENTIFICATION

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

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... GOFF AND SAYER, 1980

| | |
|--------|-----|
| SI02.. | 66. |
| S04... | 16. |

RECORD 00171

GEOTHERM FILE 101 0015253

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SPRING AT JEMEZ SPRINGS

LOCATION

TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 35-46.32 N 106-41.40 W

COUNTRY... UNITED STATES

STATE... NEW MEXICO

COUNTY... SANDOVAL

MAP REFERENCE... JEMEZ SPRINGS 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1972/12/02

TEMPERATURE (C)... 75.0

PERTINENT LITHOLOGY... PROBABLY LIMESTONE IN MAGDALENA GROUP BENEATH ALLUVIUM.

WATER ANALYSIS

PH... 6.3

SPECIFIC CONDUCTANCE... 3930.

TOTAL DISSOLVED SOLIDS... 3500.

CHARGE IMBALANCE (% DIFF)... 3.3

ANALYSIS IN MG/L

AG... 1.5

AL... 8.7

AS... 4.8

H... 0.66

HE... 7.4

CA... 130.

CL... 920.

CO... 1.5

CR... 8.7

F... 4.8

FE(TOT)... 0.04

HC03... 732.

K... 82.

LI... 8.7

MG... 4.8

NA... 640.

NB... 79.

SI02... 504.

S04... 53.

SI02... 79.

S04... 53.

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SI02... 79.

S04... 53.

RECORD 00172

GEOTHERM FILE 101 0015251

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SPRING IN CALAVERAS CANYON

LOCATION

TOWNSHIP=RANGE

COORDINATES

COUNTRY... UNITED STATES

STATE... NEW MEXICO

COUNTY... SANDOVAL

MAP REFERENCE... JEMEZ SPRINGS 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1972/12/01

TEMPERATURE (C)... 41.0

PERTINENT LITHOLOGY... BANDELLIER TUFF (RHYOLITE).

WATER ANALYSIS

PH... 8.0

SPECIFIC CONDUCTANCE... 282.

TOTAL DISSOLVED SOLIDS... 224.

CHARGE IMBALANCE (% DIFF)... 5.4

ANALYSIS IN MG/L

AG... 1.0

AL... 0.69

AS... 1.7

H... 0.072

HE... 0.07

CA... 0.7

CL... 0.04

CO... 1.0

CR... 0.69

F... 1.7

FE(TOT)... 55.

HC03... 100.

K... 18.

LI... 100.

MG... 18.

NA... 100.

NB... 18.

SI02... 100.

S04... 18.

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SI02... 100.

S04... 18.

SI02... 100.

CA.... 6.0 HC03.... 144.
CL.... 12.

CO..... K..... 1.8
REFERENCE AND IDENTIFICATION

COMPILED BY..... TESHIN, VICTOR

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... *U.S. GEOLOGICAL SURVEY

RECORD 00173

GEOTHERM_SAMPLE_FILE
NAME OF SAMPLE SOURCE... SULPHUR SPRINGS - LEMONADE SPRING
WELL/SPRING NUMBER..... 19N-03E-03-143
GEOHEM FILE ID: 0015250

LOCATION
COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... SANDOVAL
GEOLOGIC PROVINCE.. SAN JUAN BASIN
MAP REFERENCE..... VALLE SAN ANTONIO 1:24000
OTHER LOCALITY INFORMATION: EAST SIDE OF "SULPHUR CREEK" IN THE "BACA" LOCATION.
COORDINATES
LAT/LONG... 35-54.42 N 106-36.92 W

SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1949/08/31

TEMPERATURE (C)..... 65.0

PERTINENT LITHOLOGY..... LATE PLEISTOCENE OR PLEISTOCENE RHYOLITE OVERLYING PALEOZOIC SEDIMENTS.

WATER ANALYSIS

pH..... 1.9

SPECIFIC CONDUCTANCE..... 4570.

TOTAL DISSOLVED SOLIDS... 2160.

ANALYSIS IN PPM

| | | | |
|-------------|---------------|--------------|------|
| AG.... | CO3..... N | MG.... | 52. |
| AL.... 56. | CR..... | MN.... | 3.3 |
| AS.... | CS..... | NA.... | 6.7 |
| H.... | F..... 1.1 | SI02.. | 216. |
| HE.... | FE(TOT).. 33. | SO4... 1570. | |
| CA.... 185. | HC03..... N | | |
| CL.... 3.5 | K..... | | |

ISOTOPES 10/001

OTHER ANALYTICAL DATA... NO3 = 0.

REFERENCE AND IDENTIFICATION

COMPILED BY..... TESHIN, VICTOR

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... WHITE AND OTHERS, 1963; SUMMERS, 1976

RECORD 00174

GEOTHERM_SAMPLE_FILE
NAME OF SAMPLE SOURCE... TRAVERTINE MOUND SPRING
WELL/SPRING NUMBER..... 35-46.5 N 106-41. W
GEOHEM FILE ID: 0001747

LOCATION
COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... SANDOVAL
GEOLOGIC PROVINCE.. SAN JUAN BASIN
MAP REFERENCE..... JENET SPRINGS 1:24000
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE; SPRING ISSUES FROM TRAVERTINE MOUND WEST OF BATHHOUSE.
COORDINATES
LAT/LONG... 35-46.5 N 106-41. W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1979/01/03

SAMPLE NUMBER..... VA-7
 TEMPERATURE (C)..... 70.
 DISCHARGE..... 4. L/MIN
 PERTINENT LITHOLOGY..... ALLUVIUM, PALEOZOIC ROCKS
 WATER ANALYSIS

PH..... 6.28
 CHARGE IMBALANCE (% DIFF).... 8.0

ANALYSIS IN MG/L

| | | | |
|---------|--------------|--------|------|
| AG..... | CO3..... | LI.... | 8.20 |
| AL..... | CR..... | MG.... | 4.56 |
| AS..... | CS..... | MN.... | 0.18 |
| H..... | F..... | NA.... | 614. |
| HE..... | FE(TOT)..... | SI02.. | 93. |
| CA..... | HC03..... | S04.. | 36.1 |
| CL..... | CL..... | | |

CO..... K..... 75.2

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R.H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GOFF AND OTHERS, 1981

RECORD 00175

GEOTHERM FILE ID: 0001754

GEOTHERM SAMPLE SITE
 NAME OF SAMPLE SOURCE... TRAVERTINE MOUND SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SANDOVAL
 GEOLOGIC PROVINCE... SAN JUAN BASIN
 MAP REFERENCE..... JEMEZ SPRINGS 1:240000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE: SPRING ISSUES FROM TRAVERTINE MOUND WEST OF BATHHOUSE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1979/01/19
 SAMPLE NUMBER..... VA-17
 TEMPERATURE (C)..... 72.
 DISCHARGE..... 4. L/MIN

PERTINENT LITHOLOGY..... ALLUVIUM, PALEOZOIC ROCKS
 WATER ANALYSIS

PH..... 6.66
 CHARGE IMBALANCE (% DIFF).... 9.5

ANALYSIS IN MG/L

| | | | |
|---------|--------------|--------|------|
| AG..... | CO3..... | LI.... | 8.46 |
| AL..... | CR..... | MG.... | 4.48 |
| AS..... | CS..... | MN.... | 0.11 |
| H..... | F..... | NA.... | 612. |
| HE..... | FE(TOT)..... | SI02.. | 83. |
| CA..... | HC03..... | S04.. | 43.2 |
| CL..... | CL..... | | |

CO..... K..... 70.3

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R.H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GOFF AND OTHERS, 1981

COORDINATES
 LAT/LONG... 35-46.5 N 106-41. W

ISOTOPES 10/001

ISOTOPES 10/001

RECORD 00176
GEOTHERM FILE ID: 0001835

COORDINATES
LAT/LONG... 35-18.48 N 106-28.26 W

TOWNSHIP=RANGE

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

LOCATION
COUNTRY... UNITED STATES
STATE... NEW MEXICO
COUNTY... SANDOVAL

GEOLOGIC PROVINCE... 26

MAP REFERENCE... PLACITAS 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)... 20.

REFERENCE AND IDENTIFICATION

COMPILED BY... MARINER, R. & BROOK, C.

REFERENCE... BERRY AND OTHERS, 1980

RECORD 00177

GEOTHERM FILE ID: 0001751

COORDINATES
LAT/LONG... 35-46.5 N 106-41. W

TOWNSHIP=RANGE

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

LOCATION
COUNTRY... UNITED STATES
STATE... NEW MEXICO
COUNTY... SANDOVAL

GEOLOGIC PROVINCE... SAN JUAN BASIN

MAP REFERENCE... JEMEZ SPRINGS 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE: SPRING DISCHARGED FROM MARSH 15 M. NW 0 MAIN JEMEZ SPRING (NOW DESTROYED).

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR... 1979/01/05

SAMPLE NUMBER... VAL-12

TEMPERATURE (C)... 49.

DISCHARGE... 2. L/MIN

PERTINENT LITHOLOGY... ALLUVIUM, PALEOZOIC ROCKS

WATER ANALYSIS

PH... 6.35

CHARGE IMBALANCE (% DIFF)... 5.7

ANALYSIS IN MG/L

AG... CO3...

AL... CR...

AS... CS...

BA... F... 7.51

BE... FE(TOT)... 4.6

CA... HCO3... 0.99

CL... 738.

CO... K... 70.

REFERENCE AND IDENTIFICATION

COMPILED BY... MARINER, R.H.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE... GOFF AND OTHERS, 1981

ISOTOPES 10/001

LI... 8.18

MG... 7.82

MN... 0.49

NA... 609.

SI02... 100.

S04... 41.8

RECORD 00178

GEOTHERM FILE ID: 0002959

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... UNNAMED WARM SPRING (SOUTH OF SAN YSIDRO PEAK)

WELL/SPRING NUMBER..... 02N-26E-11-130

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... SANDOVAL

GEOLOGIC PROVINCE..... 25

MAP REFERENCE..... SAN YSIDRO 1:24000

OTHER LOCALITY INFORMATION: SPRINGS ON TRAVERTINE MOUNDS ON SOUTH SIDE OF THE SALADO RIVER.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 25.0

DEPOSITS OR ALTERATION..... TRAVERTINE MOUNDS.

OTHER SAMPLE INFORMATION.. SMALL SPRINGS WITH CONSIDERABLE GAS.

WATER ANALYSIS

PH..... 6.25

ALKALINITY..... 1855. AS HCO3

TOTAL DISSOLVED SOLIDS... 10465.

CHARGE IMBALANCE (% DIFF)... 3.8

ANALYSIS IN MG/L

| | | | | |
|---------------|------------------|---------|---------|-----------------------|
| AG..... | CO3..... | LI..... | S..... | ISOTOPE 10/001 |
| AL..... 0.007 | CR..... | MG..... | SB..... | DEL D OF WATER..... |
| AS..... | CS..... | MN..... | | DEL O(18) OF WATER... |
| AU..... | CU..... 0.4 | | | |
| BA..... | FE..... 0.02 | NA..... | SI02.. | 15. |
| BE..... | FE(TOT).. 4.0 | NB..... | SO4... | 2000. |
| BR..... | FE(TOT).. 0.42 | NI..... | | |
| CA..... | GE..... | | | |
| CA+MG.. 390. | HCO3..... 1855. | | | |
| CL..... | HG..... L 0.0001 | | | |
| CO..... | K..... 91. | RB..... | ZN.... | 0.06 |

ANALYSIS IN VOLUME %

CH4... L 0.1

C2H6.. 32.

CO2... 61.

REFERENCE AND IDENTIFICATION

COMPILED BY..... TESHIN, VICTOR

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... MARTINER AND OTHERS, 1977A

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WARM SPRING SOUTH OF THE RIO SALADO RIVER

WELL/SPRING NUMBER..... 15N-01E-08-000

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... SANDOVAL

GEOLOGIC PROVINCE... SAN JUAN BASIN

MAP REFERENCE..... SAN YSIDRO 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE; ON HILLSIDE SOUTH OF THE RIO SALADO RIV R.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1974/09/15

POINT OF COLLECTION.. UNCERTAIN WHICH SPRING WAS SAMPLED

TEMPERATURE (C)..... 29.

DISCHARGE..... L/MIN

COORDINATES

LAT/LONG... 35-32.2 N 106-50.7 W

COORDINATES

LAT/LONG... 35-32.1 N 106-50.8 W

RECORD 00179

GEOTHERM FILE ID: 0001651

REFERENCE..... *USGS

RECORD 00181

GEOTHERM FILE ID: 0001643

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... HARNEY IORIO NO. 1
WELL/SPRING NUMBER..... 14S-05W-25-410

LOCATION

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... SIERRA

GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... WILLIAMSBURG 1124000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/12/15

TEMPERATURE (C)..... 33.

DISCHARGE..... 100. L/MIN

OTHER SAMPLE INFORMATION.. WELL PLUGGED AT 466 M.

WATER ANALYSIS

P-1..... 7.38

SPECIFIC GRAVITY..... Q 0.992

SPECIFIC CONDUCTANCE..... 5600.

TOTAL DISSOLVED SOLIDS..... 4931.

CHARGE IMBALANCE (% DIFF).... 14.7

ANALYSIS IN PPM

| | | | | |
|---------|------------|-------|-------|-------|
| AG..... | CO3..... | N | LI... | 0.91 |
| AL..... | CH..... | | MG... | 0.46 |
| AS..... | CS..... | | MN... | 0.25 |
| AU..... | CU..... | | MO... | |
| B..... | F..... | 3.6 | NA... | 1280. |
| HE..... | FE(TOT)... | 0.18 | NB... | |
| HR..... | | | | |
| CA..... | HC03..... | 17. | | |
| CL..... | I..... | 0.128 | | |
| CO..... | K..... | 7.8 | | |

| | |
|-------|-------|
| SE... | 0.074 |
| SI02. | 23.9 |
| SO4.. | 2721. |

ISOTOPES 10/001

QUALIFICATION FIELD..... DENSITY AT 20 C (MG/L).

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... SUMMERS, 1976

RECORD 00182

GEOTHERM FILE ID: 0001642

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... DERRY WARM SPRINGS
WELL/SPRING NUMBER..... 17S-04W-29-340

LOCATION

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... SIERRA

GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... GARFIELD 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1974/12/04

TEMPERATURE (C)..... 33.

COORDINATES
LAT/LONG... 32-47.72 N 107-16.62 W

| | |
|------------------------------|-------|
| PH..... | 7.2 |
| SPECIFIC CONDUCTANCE..... | 1660. |
| CHARGE IMBALANCE (% DIFF)... | 0.0 |
| ANALYSIS IN PPM | |

| | | |
|-------|------|-------|
| LI... | 0.31 | |
| MG... | 15. | |
| MN... | N | |
| NA... | 300. | 33. |
| NB... | | 290. |
| | | 504. |
| | | 5102. |

| | | |
|---------|-----|-----------------------|
| HR..... | 0.5 | |
| CA..... | 45. | HCO ₃ |
| CD..... | | H ₂ S..... |
| CL..... | 17. | |
| | | 355. |

```

-----CO.... K..... 18.
REFERENCE AND IDENTIFICATION
COMPILED BY..... BROOK, C.A.
COMPILER AFFILIATION... U.S. GEOLOG
REFERENCE..... SUMMERS, 19

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RECORD 00183

GEO THERM FILE ID: 0001628

GÉOTHEM SAMPLE-FILE

NAME OF SAMPLE SOURCE... GARTON WELL
WELL/SPRING NUMBER..... 18S-JRE-05-122

UNSHIP-RANGE SE OF SE OF NW
18S 008E 05
48M: NEW MEXICO PRINCIPAL

COORDINATES
LAT/LONG

32-46.2 N 107-41.7 W

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

SAMPLE DESCRIPTION AND CONDITIONS

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TEMPERATURE (C)..... 34.
JELI DEPTH (M)..... 301.
DISCHARGE..... L/MIN

```

| | |
|--------------------------------|-------|
| PERCENT ANALYSIS | |
| PH..... | 8.0 |
| SPECIFIC GRAVITY..... | 1.0 |
| SPECIFIC CONDUCTANCE..... | 10000 |
| TOTAL DISSOLVED SOLIDS..... | 9086 |
| CHARGE IMBALANCE (% DIFF)..... | 4.4 |

| | | | |
|-------|-------|--------|-------|
| LI... | 0.32 | | |
| MG... | 176. | | |
| MN... | 0.3 | | |
| MO... | | | |
| NU... | 2225. | SE... | N |
| NA... | | SI02. | 39. |
| | | S04... | 2854. |

| | |
|-------|-------|
| LI... | .0.32 |
| MG... | 176. |

| | | | |
|---------|-------|------------------------|------|
| AS..... | 0.015 | CS..... | |
| AU..... | | CU..... | |
| B..... | 1.2 | F..... | 2.9 |
| HF..... | | FE(TOT)..... | 0.6d |
| HM..... | 4.9 | | |
| CA..... | 745 | HCO ₃ | 120. |
| CU..... | | H ₂ S..... | |
| CL..... | 3000. | | |
| CO..... | | K..... | 170. |

QUALIFICATION FIELD..... DENSITY AT 20 C (MG/L).
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

RECORD 00184

GEOTHERM FILE 101 0001644

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... TRUTH OR CONSEQUENCES
 WELL/SPRING NUMBER..... 13S-04W-33-000
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SIERRA
 GEOLOGIC PROVINCE.. 26
 MAP REFERENCE..... CUCHILLO 1124000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1974/12/04
 TEMPERATURE (C)..... 42.
 DISCHARGE..... 32. L/MIN
 PERTINENT LITHOLOGY..... LIMESTONE
 OTHER SAMPLE INFORMATION.. SPRINGS AND SEVERAL ARTESIAN WELLS; MAX. TEMP. 45.5 TOTAL DISCHARGE FOR SYSTEM 5900 L/MIN
 WATER ANALYSIS

COORDINATES

LAT/LONG... 33-08.1 N 107-15.2 W

TOWNSHIP-RANGE

13S 004W 33
86M; NEW MEXICO PRINCIPAL

ISOTOPIES (0/001)

| | |
|-------|------|
| LI... | 1.5 |
| MG... | 18.6 |
| MN... | 0.1 |
| SI02. | 41. |
| SO4.. | 120. |

| | |
|-------|------|
| LI... | 1.5 |
| MG... | 18.6 |
| MN... | 0.1 |
| NA... | 742. |
| NB... | |
| NO3.. | 0.72 |

PH..... 6.7
 SPECIFIC CONDUCTANCE..... 4500.
 CHARGE IMBALANCE (% DIFF)... 0.8
 ANALYSIS IN PPM

| | |
|----------|----------------|
| AG.... | CO3..... N |
| AL.... | CR..... |
| AS.... | CS..... |
| R..... | F..... 3.5 |
| HE.... | FE(TOT).. 0.39 |
| HR.... N | |
| CA.... | HCO3..... 250. |
| CL.... | |
| CO.... | K..... 57. |

REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

RECORD 00185

GEOTHERM FILE 101 0001806

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SIERRA
 GEOLOGIC PROVINCE.. 25
 MAP REFERENCE..... HILLSBORO 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 35.
 REFERENCE AND IDENTIFICATION

COORDINATES

LAT/LONG... 32-57.18 N 107-34.80 W

TOWNSHIP-RANGE

86M; NEW MEXICO PRINCIPAL

COMPILED BY..... MARINER, R. & BROOK, C.
REFERENCE..... HERRY AND OTHERS, 1980

RECORD 00186

GEOTHERM SAMPLE FILE..... GEOTHERM FILE ID: 0001645

NAME OF SAMPLE SOURCE... VICTORIA LAKE AND CATTLE CO. NO. 1
WELL/SPRING NUMBER..... 105-01W-25-100
LOCATION

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... SIERRA
GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... MALPAIS WELL 1162500
TOWNSHIP-RANGE
10S 001W 25 NW
86M: NEW MEXICO PRINCIPAL

COORDINATES
LAT/LONG... 33-24.0 N 106-54.0 W

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1955/07/08
TEMPERATURE (C)..... 34.
WELL DEPTH (M)..... 1845.

DISCHARGE..... E 3400. L/MIN

WATER ANALYSIS

P.H..... 7.2
SPECIFIC CONDUCTANCE..... 2600.
ANALYSIS IN MG/L

FE(TOT)..... NB...
CA..... 136.
HCO3.....

ISOLOPES 10/001
504.. 1660.

CL..... 22.

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... HOOD AND KISTER, 1962

RECORD 00187

GEOTHERM FILE ID: 0001814

GEOTHERM SAMPLE FILE..... WARM SPRINGS
LOCATION

TOWNSHIP-RANGE

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... SIERRA
GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... CHISE 1124000
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C)..... 31.

REFERENCE AND IDENTIFICATION
COMPILED BY..... MARINER, R. & BROOK, C.
REFERENCE..... HERRY AND OTHERS, 1980

RECORD 00188

GEOTHERM FILE ID: 0070902

GEOTHERM SAMPLE FILE..... ARMS. N ARMS. CONS WELL
WELL/SPRING NUMBER..... 01S-01W-22-244
LOCATION

TOWNSHIP-RANGE

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO

COORDINATES
LAT/LONG... 34-12.6 N 106-55.38 W

SE OF SE OF NE
01S 001W 22
86M: NEW MEXICO PRINCIPAL

COUNTY..... SOCORRO
 GEOLOGIC PROVINCE... UROGRANDE BASIN
 MAP REFERENCE..... LEMITAH 1:24000
 OTHER LOCALITY INFORMATION: ALTITUDE 4670 FT.
 SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 10
 TEMPERATURE (C)..... 20.

WELL DEPTH (M)..... 30.
 DISCHARGE..... 0 1136. L/MIN

OTHER SAMPLE INFORMATION.. CORPORATE USE. WELL DIAMETER 10 INCHES.
 WATER ANALYSIS

PH..... 7.5

ANALYSIS IN PPM

| | | | | | |
|------------|-------|-------|-------|-------|------|
| F..... | 0.3 | NA... | 554. | SI02. | 50. |
| FE(TOT)... | | NB... | 504.. | | 861. |
| HC03..... | 196. | | | | |
| CL..... | 1180. | | | | |

ISOTOPES (07001)

QUALIFICATION FIELD..... PUMPED
 REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00189

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... RENAVIDEZ WELL

WELL/SPRING NUMBER..... 02S-01W-36-341

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... SOCORRO

GEOLOGIC PROVINCE... UROGRANDE BASIN

MAP REFERENCE..... SOCORRO 1:24000

OTHER LOCALITY INFORMATION: ALTITUDE 4614 FT.

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 167

TEMPERATURE (C)..... 20.

WELL DEPTH (M)..... 15.

OTHER SAMPLE INFORMATION.. DOMESTIC USE.

WATER ANALYSIS

PH..... 7.4

TOTAL DISSOLVED SOLIDS... 2352.

ANALYSIS IN PPM

| | | | | | |
|---------|------|------------|------|--|--|
| AL..... | | CR..... | 67. | | |
| H..... | | F..... | 378. | | |
| HF..... | | FE(TOT)... | | | |
| CA..... | 259. | HC03..... | 503. | | |
| CL..... | 204. | | | | |

ISOTOPES (07001)

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... CLARK AND SUMMERS, 1971

GEO THERM FILE ID: 0070915

COORDINATES

LAT/LONG... 34-05.30 N 106-53.35 W

TOWNSHIP-RANGE

02S 001W 36 NW OF SE OF SW

B&M: NEW MEXICO PRINCIPAL

504.. 1000.

RECORD 00190
GEOTHERM FILE 101 0070903

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... CAMPBELL WELL
WELL/SPRING NUMBER..... 015-01W-22-324
LOCATION
COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... SOCORRO
GEOLOGIC PROVINCE... OROGRANDE BASIN
MAP REFERENCE..... LEMITAR 1124000
OTHER LOCALITY INFORMATION: ALTITUDE 4750 FT.
SAMPLE DESCRIPTION AND CONDITIONS
SAMPLE NUMBER..... 11
TEMPERATURE (C)..... 21.
WELL DEPTH (M)..... 54.
OTHER SAMPLE INFORMATION.. STUCK USE.
WATER ANALYSIS
PH..... 7.5
TOTAL DISSOLVED SOLIDS... 1538.
ANALYSIS IN PPM
AL..... CR..... MG... 49.
H..... F..... NA... 264.
HE..... FE(TOT). NB...
CA..... 171. HCO3..... 356.
CL..... 270.
REFERENCE AND IDENTIFICATION
COMPILED BY..... ORRIS, GRETA J.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... CLARK AND SUMMERS, 1971

ISOLOPES 10/001

504.. 500.

RECORD 00191
GEOTHERM FILE 101 0070927

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... CHAVEZ WELL
WELL/SPRING NUMBER..... 03S-01W-13-411
LOCATION
COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... SOCORRO
GEOLOGIC PROVINCE... OROGRANDE BASIN
MAP REFERENCE..... SOCORRO 1124000
OTHER LOCALITY INFORMATION: ALTITUDE 4648 FT.
SAMPLE DESCRIPTION AND CONDITIONS
SAMPLE NUMBER..... 431
TEMPERATURE (C)..... 20.
WELL DEPTH (M)..... 23.
OTHER SAMPLE INFORMATION.. DOMESTIC USE.
WATER ANALYSIS
PH..... 7.8
TOTAL DISSOLVED SOLIDS... 658.
ANALYSIS IN PPM
AL..... CR..... MG... 12.
H..... F..... NA... 153.
HE..... FE(TOT). NB...
CA..... 171. HCO3..... 356.
CL..... 270.
REFERENCE AND IDENTIFICATION
COMPILED BY..... ORRIS, GRETA J.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... CLARK AND SUMMERS, 1971

ISOLOPES 10/001

504.. 100.

CA..... 69. HC03..... 376.
 CL..... 56.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... CIBOLA NATIONAL FOREST WELL
 WELL/SPRING NUMBER..... 03S-03W-26-113
 LOCATION

COUNTRY..... UNITED STATES 03S 03W 26 SW OF NW OF NW
 STATE..... NEW MEXICO 86M; NEW MEXICO PRINCIPAL
 COUNTY..... SUCORRO

GEOLOGIC PROVINCE.. OROGRANDE BASIN
 MAP REFERENCE..... MAGDALENA 1162500
 OTHER LOCALITY INFORMATION: ALTITUDE 6800 FT.
 SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1962/05/10

SAMPLE NUMBER..... 498

TEMPERATURE (C)..... 23.

DISCHARGE..... 114. L/MIN

WATER ANALYSIS

PH..... 8.7

ANALYSIS IN PPM

AG..... CO3..... 10.

AL..... CR..... 9.

H..... F..... 15.

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

CA..... 54. HC03..... 188.

CL..... 8.

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

ISOIOPES 10/001

RECORD 00192

GEOTHERM FILE ID: 0070928

COORDINATES

LAT/LONG... 34-01.5 N 107-07.82 W

RECORD 00193

GEOTHERM FILE ID: 0070912

TOWNSHIP-RANGE

02S 001W 36 NE OF NW OF SW
 86M; NEW MEXICO PRINCIPAL

COORDINATES

LAT/LONG... 34-05.40 N 106-54.05 W

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... DELONG WELL

WELL/SPRING NUMBER..... 02S-01W-36-312

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... SUCORRO

GEOLOGIC PROVINCE.. OROGRANDE BASIN

MAP REFERENCE..... SUCORRO 1124000

OTHER LOCALITY INFORMATION: ALTITUDE 4650 FT.

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 143

TEMPERATURE (C)..... 20.

WELL DEPTH (M)..... 24.

OTHER SAMPLE INFORMATION.. DOMESTIC USE.

WATER ANALYSIS

PH..... 7.5
 TOTAL DISSOLVED SOLIDS... 242.
 ANALYSIS IN PPM
 AL.....
 H.....
 BE.....
 CA..... 40.
 CL..... 22.
 CR..... 12.
 F..... 37.
 FE(TOT)..
 HC03..... 171.
 MG.....
 NA.....
 NB.....
 S04... 56.
 ISOLOPES (0/001)

REFERENCE AND IDENTIFICATION
 COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00194
 GEOTHERM FILE ID: 0070907

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... DUKE WELL
 WELL/SPRING NUMBER..... 02S-01W-11-114
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. OROGRANDE BASIN
 MAP REFERENCE..... LEMITAR 1:24000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
 SAMPLE DESCRIPTION AND CONDITIONS
 SAMPLE NUMBER..... 81
 TEMPERATURE (C)..... 21.
 WELL DEPTH (M)..... 43.
 OTHER SAMPLE INFORMATION.. DOMESTIC USE. WELL HAS 3 INCH DIAMETER.
 WATER ANALYSIS

PH..... 7.7
 TOTAL DISSOLVED SOLIDS... 640.
 ANALYSIS IN PPM
 AL.....
 H.....
 BE.....
 CA..... 121.
 CL..... 64.
 CR..... 26.
 F..... 85.
 FE(TOT)..
 HC03..... 307.
 MG.....
 NA.....
 NB.....
 S04... 240.
 ISOLOPES (0/001)

REFERENCE AND IDENTIFICATION
 COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00195
 GEOTHERM FILE ID: 0070926

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... FAIR GROUNDS WELL
 WELL/SPRING NUMBER..... 03S-01W-24-320
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. OROGRANDE BASIN
 MAP REFERENCE..... SOCORRO 1:24000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
 COORDINATES
 LAT/LONG... 34-01.95 N 106-54.18 W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1959/02/03

SAMPLE NUMBER..... 430

TEMPERATURE (C)..... 21.

WELL DEPTH (M)..... 69.

DISCHARGE..... 11. L/MIN

OTHER SAMPLE INFORMATION.. DOMESTIC USE. WELL 7 INCHES IN DIAMETER.

WATER ANALYSIS

PH..... 7.3

ANALYSIS IN PPM

B..... 0.3

F..... 0.6

FE(TOT)..... NA...

HC03..... NB...

CA..... 186.

CL..... 18.

CO..... K..... 3.4

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, Greta J.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00196

GEOTHERM FILE ID: 0070929

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... FRANK FERNANDEZ WELL

WELL/SPRING NUMBER..... 04S-01E-16-322

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... SUCURRO

GEOLOGIC PROVINCE.. URUGRANDE BASIN

MAP REFERENCE..... SAN ANTONIO 1162500

OTHER LOCALITY INFORMATION: ALTITUDE 4575 FT.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1952/05/23

SAMPLE NUMBER..... 517

TEMPERATURE (C)..... 20.

OTHER SAMPLE INFORMATION.. DOMESTIC USE.

WATER ANALYSIS

TOTAL DISSOLVED SOLIDS... 384.

ANALYSIS IN PPM

CL..... 28.

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, Greta J.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00197

GEOTHERM FILE ID: 0070914

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... GALLEGUS WELL

WELL/SPRING NUMBER..... 02S-01W-36-314

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... SUCURRO

GEOLOGIC PROVINCE.. URUGRANDE BASIN

TOWNSHIP-RANGE

02S 01W 36

SE OF NW OF SW

B&M: NEW MEXICO PRINCIPAL

COORDINATES

34-05.39 N

106-54.06 W

MAP REFERENCE..... SOCORRO 1:24000
OTHER LOCALITY INFORMATION: ALTITUDE 4619 FT.

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 147

TEMPERATURE (C)..... 22.

WELL DEPTH (M)..... 27.

OTHER SAMPLE INFORMATION.. HOUSEHOLD USE.

WATER ANALYSIS

PH..... 7.4

TOTAL DISSOLVED SOLIDS... 292.

ANALYSIS IN PPM

AL.....

CA..... 46.

CL..... 22.

CO..... 195.

CR.....

FE.....

HC03.....

MG..... 12.

NA..... 46.

NH.....

SO4... 56.

504... 56.

504... 56.

504... 56.

504... 56.

504... 56.

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504... 56.

504... 56.

RECORD 00198

GEOTHERM FILE ID: 0070925

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... GEORGE SICKLES WELL

WELL/SPRING NUMBER..... 035-01W-13-243

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... SOCORRO

GEOLOGIC PROVINCE.. OROGRANDE BASIN

MAP REFERENCE..... SOCORRO 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 426

TEMPERATURE (C)..... 21.

WELL DEPTH (M)..... 16.

OTHER SAMPLE INFORMATION.. DOMESTIC USE

WATER ANALYSIS

PH..... 7.5

TOTAL DISSOLVED SOLIDS... 904.

ANALYSIS IN PPM

AL.....

CA..... 82.

CL..... 104.

CO..... 366.

CR.....

FE.....

HC03.....

MG..... 16.

NA..... 190.

NH.....

SO4... 228.

504... 228.

504... 228.

504... 228.

504... 228.

504... 228.

504... 228.

504... 228.

504... 228.

504... 228.

COORDINATES

LAT/LONG... 34-03.00 N 106-53.95 W

TOWNSHIP-RANGE

03S 001W 13 SW OF SE OF NE

B&M; NEW MEXICO PRINCIPAL

RECORD 00199

GEOTHERM FILE ID: 0070930

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... GRAY AND LIGON RANCH - UNNAMED SPRING

WELL/SPRING NUMBER..... 01N-02W-07-130

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. OROGRANDE BASIN
 MAP REFERENCE..... RILEY 1:62500
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1963/03/14
 SAMPLE NUMBER..... 1
 TEMPERATURE (C)..... 21.
 DISCHARGE..... 57. L/MIN
 PERTINENT LITHOLOGY..... PENNSYLVANIAN SAND.
 WATER ANALYSIS

TOWNSHIP-RANGE
 01N 002W 07 SW OF NW
 B&M: NEW MEXICO PRINCIPAL

COORDINATES
 LAT/LONG... 34-19.5 N 107-05.7 W

ISOTOPES (0/001)

PH..... 7.2
 ANALYSIS IN PPM
 AL.....
 CR..... 32.
 FE+3..... 792.
 FE(TOT).....
 NA.....
 HE.....
 CA..... 1/1. 383.
 CL..... 1032.
 MG.....
 NA+K.....
 NB.....
 S04... 492.

QUALIFICATION FIELD..... NA+K CALCULATED.

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00200

GEOTHERM FILE ID: 0070917

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... GRAY WELL
 WELL/SPRING NUMBER..... 02S-02W-18-112

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. OROGRANDE BASIN
 MAP REFERENCE..... MAGDALENA 1:62500
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
 SAMPLE DESCRIPTION AND CONDITIONS
 SAMPLE NUMBER..... 190
 TEMPERATURE (C)..... 20.
 WELL DEPTH (M)..... 46.
 OTHER SAMPLE INFORMATION.. DOMESTIC USE.
 WATER ANALYSIS

COORDINATES
 LAT/LONG... 34-08.5 N 107-05.5 W

TOWNSHIP-RANGE
 02S 002W 18 NE OF NW
 B&M: NEW MEXICO PRINCIPAL

ISOTOPES (0/001)

PH.....
 ANALYSIS IN PPM
 AL.....
 CR..... 8.
 F..... 32.
 FE(TOT).....
 NA.....
 HE.....
 CA..... 34. 181.
 CL..... 12.
 MG.....
 NA+K.....
 NB.....
 S04... 20.

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... CLARK AND SUMMERS, 1971

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... GRAY WELL (2)
 WELL/SPRING NUMBER..... 02S-03W-11-333
 LOCATION

RECORD 00201

 GEOTHERM FILE ID: 0070920

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. OROGRANDE BASIN
 MAP REFERENCE..... MAGDALENA 1:62500
 OTHER LOCALITY INFORMATION: ALTITUDE 5946 FT.
 SAMPLE DESCRIPTION AND CONDITIONS
 SAMPLE NUMBER..... 209
 TEMPERATURE (C)..... 20.
 OTHER SAMPLE INFORMATION.. STOCK USE.

COORDINATES

LAT/LONG... 34-08.63 N 107-07.83 W

TOWNSHIP-RANGE

02S 003W 11 SW OF SW OF SW
 B&M; NEW MEXICO PRINCIPAL

PH.....
 TOTAL DISSOLVED SOLIDS... 7.9
 ANALYSIS IN PPM

AL.....
 H.....
 RE.....
 CA..... 30.
 CL..... 12.
 CR.....
 F.....
 FE(TOT)..
 NA.....
 NH.....
 MG.... 7.
 NA.... 32.
 NH....
 504.. 22.

ISOLOPES 10/001

REFERENCE AND IDENTIFICATION
 COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... GRAY WELL (2)
 WELL/SPRING NUMBER..... 02S-03W-11-333
 LOCATION

RECORD 00202

 GEOTHERM FILE ID: 0070921

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. OROGRANDE BASIN
 MAP REFERENCE..... MAGDALENA 1:62500
 OTHER LOCALITY INFORMATION: ALTITUDE 5946 FT.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1966/08/09
 SAMPLE NUMBER..... 209
 TEMPERATURE (C)..... 20.
 OTHER SAMPLE INFORMATION.. STOCK USE.

COORDINATES

LAT/LONG... 34-08.63 N 107-07.83 W

TOWNSHIP-RANGE

02S 003W 11 SW OF SW OF SW
 B&M; NEW MEXICO PRINCIPAL

PH.....
 TOTAL DISSOLVED SOLIDS... 7.9
 ANALYSIS IN PPM

AL.....
 H.....
 RE.....
 CA..... 30.
 CL..... 12.
 CR.....
 F.....
 FE(TOT)..
 NA.....
 NH.....
 MG.... 4.1
 NA.... 19.
 NH....
 5102. 27.

ISOLOPES 10/001

S04.. 17.

NB...

FE(TOT).. 0.11
HC03.... 132.HE.....
CA..... 30.
CL..... 4.4

K..... 1.3

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00203

GEOTHERM FILE ID: 0070900

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... HIGGINS WELL
WELL/SPRING NUMBER..... 01S-01W-14-334

LOCATION

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... SOCORROTOWNSHIP-RANGE
01S 001W 14COORDINATES
LAT/LONG... 34-13.0 N 106-55.0 W

B&M: NEW MEXICO PRINCIPAL

GEOLOGIC PROVINCE.. OROGRANDE BASIN

MAP REFERENCE..... LEMITAR 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1961/03/20

SAMPLE NUMBER..... 5

TEMPERATURE (C)..... 21.

OTHER SAMPLE INFORMATION.. DOMESTIC USE.

WATER ANALYSIS

TOTAL DISSOLVED SOLIDS... 7.5

ANALYSIS IN PPM

AL.....

H.....

HE.....

CA..... 239.

CL..... 796.

MG... 96.

NA... 519.

NB... 800.

ISOLOPES 10/001

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00204

GEOTHERM FILE ID: 0070922

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... J. COURTNEY WELL
WELL/SPRING NUMBER..... 02S-03W-27-223

LOCATION

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... SOCORROTOWNSHIP-RANGE
02S 003W 27COORDINATES
LAT/LONG... 34-06.40 N 107-08.17 W

B&M: NEW MEXICO PRINCIPAL

GEOLOGIC PROVINCE.. OROGRANDE BASIN

MAP REFERENCE..... MAGDALENA 1:62500

OTHER LOCALITY INFORMATION: ALTITUDE 6057 FT.

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 218

TEMPERATURE (C)..... 23.

ELECT. DEPTH (M)..... 128.

OTHER SAMPLE INFORMATION.. DOMESTIC USE.

WATER ANALYSIS

PH..... 7.8
 TOTAL DISSOLVED SOLIDS... 206.
 ANALYSIS IN PPM

AL.....
 H.....
 HE.....
 CA..... 44.
 CL..... 22.
 CR.....
 F.....
 FE(TOT).....
 HCO3..... 166.

MG... 10.
 NA... 18.
 NB...
 S04... 22.

ISOTOPES 10/001

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00205

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0070919

NAME OF SAMPLE SOURCE... LA TUSSA WELL

WELL/SPRING NUMBER..... 025-03W-07-433

LOCATION

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE... OROGRANDE BASIN
 MAP REFERENCE..... MAGDALENA 1162500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 208

TEMPERATURE (C)..... 21.

WELL DEPTH (M)..... 99.

OTHER SAMPLE INFORMATION.. DOMESTIC USE.

WATER ANALYSIS

PH..... 7.6
 TOTAL DISSOLVED SOLIDS... 302.
 ANALYSIS IN PPM

AL.....
 H.....
 HE.....
 CA..... 67.
 CL..... 20.
 CR.....
 F.....
 FE(TOT).....
 HCO3..... 234.

MG... 15.
 NA...
 NB...
 S04... 28.

ISOTOPES 10/001

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00206

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0070905

NAME OF SAMPLE SOURCE... MARTIN WELL

WELL/SPRING NUMBER..... 01S-01W-34-422

LOCATION

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE... OROGRANDE BASIN

NE OF NE OF SE
 01S 001W 34
 86M: NEW MEXICO PRINCIPAL

COORDINATES

LAT/LONG... 34-10.67 N 106-55.65 W

MAP REFERENCE..... LEMITAN 1124000
 OTHER LOCALITY INFORMATION: ALTITUDE 4681 FT.
 SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 36

TEMPERATURE (C)..... 20.

WELL DEPTH (M)..... 49.

OTHER SAMPLE INFORMATION.. DOMESTIC USE.

WATER ANALYSIS

PH..... 7.8

TOTAL DISSOLVED SOLIDS... 464.

ANALYSIS IN PPM

AL.....

H.....

HE.....

CA.....

CL.....

CO.....

CR.....

F.....

FE(TOT).....

HC03.....

MG.....

NA.....

NB.....

15.

58.

504..

152.

ISOTOPES 102001

REFERENCE AND IDENTIFICATION

COMPILED BY.....

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... CLARK AND SUMMERS, 1971

COORDINATES

025 001W 22

SW OF SE OF NW

B&M: NEW MEXICO PRINCIPAL

34-07.3 N 106-56.0 W

RECORD 00207

GEOTHERM FILE 10: 0070908

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

WELL/SPRING NUMBER..... 025-01W-22-143

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... SOCORRO

GEOLOGIC PROVINCE.. OROGRANDE BASIN

MAP REFERENCE..... SOCORRO 1124000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 102

TEMPERATURE (C)..... 23.

WELL DEPTH (M)..... 77.

OTHER SAMPLE INFORMATION.. DOMESTIC USE.

WATER ANALYSIS

PH..... 7.5

TOTAL DISSOLVED SOLIDS... 542.

ANALYSIS IN PPM

AL.....

H.....

HE.....

CA.....

CL.....

CO.....

CR.....

F.....

FE(TOT).....

HC03.....

MG.....

NA.....

NB.....

24.

96.

504..

240.

ISOTOPES 102001

REFERENCE AND IDENTIFICATION

COMPILED BY.....

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... CLARK AND SUMMERS, 1971

COORDINATES

025 001W 22

SW OF SE OF NW

B&M: NEW MEXICO PRINCIPAL

34-07.3 N 106-56.0 W

RECORD 00208

GEOTHERM FILE 10: 0070924

NAME OF SAMPLE SOURCE... NMIMTRES. TASKW WELL

WELL/SPRING NUMBER..... 035-01W-10-243 TOWNSHIP=RANGE
 LOCATION
 COUNTRY..... UNITED STATES 035 001W 10 SW OF SE OF NE
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. OROGRANDE HASIN
 MAP REFERENCE..... SOCORRO 1:24000
 OTHER LOCALITY INFORMATION: ALTITUDE 4728 FT.
 SAMPLE DESCRIPTION AND CONDITIONS
 SAMPLE NUMBER..... 371
 TEMPERATURE (C)..... 21.
 WELL DEPTH (M)..... 56.
 DISCHARGE..... 379. L/MIN
 OTHER SAMPLE INFORMATION.. WELL HAS 12 INCH DIAMETER.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00209
 GEOTHERM FILE ID: 0001820

COORDINATES
 LAT/LONG... 34-06.96 N 106-58.80 W

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... OJITOS SPRINGS TOWNSHIP=RANGE
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. 26
 MAP REFERENCE..... SOCORRO 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 21.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R. & BROOK, C.
 REFERENCE..... BERRY AND OTHERS, 1980

RECORD 00210
 GEOTHERM FILE ID: 0001813

COORDINATES
 LAT/LONG... 33-34.32 N 107-35.58 W

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... OJO CALIENTE TOWNSHIP=RANGE
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. 26
 MAP REFERENCE..... MONTAÑA BUTTE 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 28.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R. & BROOK, C.
 REFERENCE..... BERRY AND OTHERS, 1980

RECORD 00211
 GEOTHERM FILE ID: 0001821

COORDINATES

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... OJO DE LAS CANAS TOWNSHIP=RANGE
 LOCATION

LAT/LONG... 34-01.92 N 106-46.62 W

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE... 26

MAP REFERENCE..... LOMA DE LAS CANAS 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 26.

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R. & BROOK, C.

REFERENCE..... BERRY AND OTHERS, 1980

RECORD 00212

GEOTHERM FILE 101 0070916

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... OTERO WELL

WELL/SPRING NUMBER..... 02S-01W-36-341

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... SOCORRO

GEOLOGIC PROVINCE... OROGRANDE BASIN

MAP REFERENCE..... SOCORRO 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 169

TEMPERATURE (C)..... 20.

WELL DEPTH (M)..... 24.

OTHER SAMPLE INFORMATION... DOMESTIC USE.

WATER ANALYSIS

P_H..... 7.5

TOTAL DISSOLVED SOLIDS... 284.

ANALYSIS IN PPM

AL.....

H.....

HE.....

CA..... 42.

CL..... 24.

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.

COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... CLARK AND SUMMERS, 1971

ISOIOPES 10/001

MG... 13.

NA... 41.

NB...

S04... 60.

RECORD 00213

GEOTHERM FILE 101 0070911

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... PURDUE WELL

WELL/SPRING NUMBER..... 02S-01W-36-142

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... SOCORRO

GEOLOGIC PROVINCE... OROGRANDE BASIN

MAP REFERENCE..... SOCORRO 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 134

TOWNSHIP-RANGE

02S 001W 36

B&M: NEW MEXICO PRINCIPAL

COORDINATES

LAT/LONG... 34-05.9 N 106-53.9 W

TEMPERATURE (C)..... 22.
OTHER SAMPLE INFORMATION... WATER UNUSED.

WATER ANALYSIS

PH.....
TOTAL DISSOLVED SOLIDS... 7.4
ANALYSIS IN PPM 286.

AL..... CR..... MG... 8.
H..... F..... NA... 70.
RE..... FE(TOT). NB...
CA..... 37. HC03..... 195.
CL..... 24.

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
COUNTRY AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00214

GEOTHERM FILE 101 0070932

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SEDILLA SPRING
WELL/SPRING NUMBER..... 035-01W-22-130

LOCATION

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... SOCORRO

GEOLOGIC PROVINCE... UROGRANDE BASIN

MAP REFERENCE..... SOCORRO 1:24000

OTHER LOCALITY INFORMATION: ALTITUDE 5000 FT.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1961/12/12
SAMPLE NUMBER..... 41

TEMPERATURE (C)..... 31.

PERTINENT LITHOLOGY..... TERTIARY AQUIFER

WATER ANALYSIS

PH.....
ANALYSIS IN PPM 8.4

AG..... CO3..... 5.
AL..... CR..... MG... 5.
HA..... FE+3..... NA+K... 50.
RE..... FE(TOT). NB...
CA..... 18. HC03..... 154.
CL..... 10.

QUALIFICATION FIELD..... NA + K CALCULATED.

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
COUNTRY AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00215

GEOTHERM FILE 101 0070931

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SEDILLA SPRING
WELL/SPRING NUMBER..... 035-01W-22-130

LOCATION

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO

GEOLOGIC PROVINCE... UROGRANDE BASIN

MAP REFERENCE..... SOCORRO 1:24000

OTHER LOCALITY INFORMATION: ALTITUDE 5000 FT.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1961/12/12
SAMPLE NUMBER..... 41

TEMPERATURE (C)..... 31.

PERTINENT LITHOLOGY..... TERTIARY AQUIFER

WATER ANALYSIS

PH.....
ANALYSIS IN PPM 8.4

AG..... CO3..... 5.
AL..... CR..... MG... 5.
HA..... FE+3..... NA+K... 50.
RE..... FE(TOT). NB...
CA..... 18. HC03..... 154.
CL..... 10.

QUALIFICATION FIELD..... NA + K CALCULATED.

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
COUNTRY AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... CLARK AND SUMMERS, 1971

ISOIOPES 10/001

S04... 80.

COORDINATES
LAT/LONG... 34-02.27 N 106-56.30 W

ISOIOPES 10/001

S04... 24.

COORDINATES
LAT/LONG... 34-02.27 N 106-56.30 W

COUNTY..... SOCORRO
GEOLOGIC PROVINCE.. UROGRANDE BASIN
MAP REFERENCE..... SOCORRO 1:24000
OTHER LOCALITY INFORMATION: ALTITUDE 5000 FT.
SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1958/03/20
SAMPLE NUMBER..... 41

TEMPERATURE (C)..... 32.
PERTINENT LITHOLOGY..... TERTIARY AQUIFER.

WATER ANALYSIS

PH..... 7.8

ANALYSIS IN PPM

H..... 0.1 F..... 0.8 NA... 54.
HE..... FE(TOT)... NA... 27.
CA..... HCU3.... 159. NB... 33.
CL..... 14.

CO..... K..... 2.9

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00216

GEOTHERM FILE ID: 0070933

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SEDILLA SPRING
WELL/SPRING NUMBER..... 035-ULW-22-130

LOCATION

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... SOCORRO
GEOLOGIC PROVINCE.. UROGRANDE BASIN

MAP REFERENCE..... SOCORRO 1:24000
OTHER LOCALITY INFORMATION: ALTITUDE 5000 FT.
SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1964/01/22
SAMPLE NUMBER..... 41

TEMPERATURE (C)..... 32.
PERTINENT LITHOLOGY..... TERTIARY AQUIFER.

WATER ANALYSIS

CHARGE IMBALANCE (% DIFF)... 0.4

ANALYSIS IN PPM

AL..... CR..... 3.2
B..... F..... 0.6 MG... 31.
BE..... FE(TOT)... 0.07 NA... 54.
CA..... 20. HCU3.... 164. NB... 31.
CL..... 12.

CO..... K..... 3.0

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00217

GEOTHERM FILE ID: 0070904

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SEVEDNA WELL
WELL/SPRING NUMBER..... 01S-01W-23-122
LOCATION
COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... SOCORRO
GEOLOGIC PROVINCE... OROGRANDE BASIN
MAP REFERENCE..... LEMITAR 1:24000
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
SAMPLE DESCRIPTION AND CONDITIONS
SAMPLE NUMBER..... 12
TEMPERATURE (C)..... 20.
WELL DEPTH (M)..... 12.
OTHER SAMPLE INFORMATION.. DOMESTIC USE.
WATER ANALYSIS
PH..... 7.5
TOTAL DISSOLVED SOLIDS... 2660.
ANALYSIS IN PPM
AL.....
H.....
F.....
CA..... 195.
CL..... 680.
MG..... 60.
NA..... 647.
FE(TOT).....
NB.....
CO3..... 337.
REFERENCE AND IDENTIFICATION
COMPILED BY..... ORRIS, GRETA J.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... CLARK AND SUMMERS, 1971

ISOLOPES (0/00)

504.. 870.

RECORD 00218

GEOTHERM FILE 101 0070909

NAME OF SAMPLE SOURCE... SLOAN WELL
WELL/SPRING NUMBER..... 02S-01W-25-122
LOCATION
COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... SOCORRO
GEOLOGIC PROVINCE... OROGRANDE BASIN
MAP REFERENCE..... SOCORRO 1:24000
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
SAMPLE DESCRIPTION AND CONDITIONS
SAMPLE NUMBER..... 106
TEMPERATURE (C)..... 20.
WELL DEPTH (M)..... 16.
OTHER SAMPLE INFORMATION.. DOMESTIC USE.
WATER ANALYSIS
PH..... 7.4
TOTAL DISSOLVED SOLIDS... 126.
ANALYSIS IN PPM
AL.....
H.....
F.....
CA..... 122.
CL..... 88.
MG..... 23.
NA..... 90.
FE(TOT).....
NB.....
CO3..... 244.
REFERENCE AND IDENTIFICATION
COMPILED BY..... ORRIS, GRETA J.

ISOLOPES (0/00)

504.. 260.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00219

GEOTHERM FILE ID: 0001647

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SOCORRO - BLUE CANYON WELL
WELL/SPRING NUMBER..... 03S-01W-16-323

LOCATION

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... SOCORRO
GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... SOCORRO 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/10/22

TEMPERATURE (C)..... 33.

DISCHARGE..... 72. L/MIN

WATER ANALYSIS

PH..... 8.62

SPECIFIC GRAVITY..... 0.997

SPECIFIC CONDUCTANCE..... 365.

TOTAL DISSOLVED SOLIDS... 145.

ANALYSIS IN PPM

| | | | | |
|---------|------------|-------|----------|-------|
| AG..... | CO3..... | 4. | LI.... | 0.07 |
| AL..... | CR..... | | MG.... | 4.3 |
| AS..... | CS..... | | MN.... | 0.211 |
| AU..... | CU..... | | MO.... | |
| B..... | F..... | | NA.... | 55. |
| BR..... | FE(TOT)... | 0.016 | | |
| HR..... | | | SE.... N | 28. |
| CA..... | HC03..... | 124. | SI02. | |
| CL..... | | | | |
| CO..... | K..... | 3.3 | | |

QUALIFICATION FIELD..... DENSITY AT 20 C (MG/L).

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... SUMMERS, 1976

RECORD 00220

GEOTHERM FILE ID: 0001646

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SOCORRO - CORE HOLE

WELL/SPRING NUMBER..... 03S-01W-04-433

LOCATION

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... SOCORRO
GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... SOCORRO 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/08/23

TEMPERATURE (C)..... 42.7

COORDINATES

LAT/LONG... 34-02.8 N 106-57.1 W

SW OF NE OF SW

B&M: NEW MEXICO PRINCIPAL

ISOLOPES (0/001)

DISCHARGE..... L/MIN
 PERTINENT LITHOLOGY..... GRANITE
 WATER ANALYSIS
 P-1..... 7.7
 SPECIFIC CONDUCTANCE..... 3460.
 TOTAL DISSOLVED SOLIDS..... 1917.
 CHARGE IMBALANCE (% DIFF).... 0.0
 ANALYSIS IN PPM
 AG..... CO3..... N
 AL..... CR..... 2.1
 B..... 0.62 F..... 1.1 MG..... 626.
 HE..... FE(TOT) 0.27 NA..... 23.
 CA..... 68. MC03..... 101. NB..... 163.
 CL..... 945.
 CO..... K..... 38.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

RECORD 00221
 GEOTHERM FILE ID: 0001648

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... SOCORRO - SEDILLA GALLERY
 WELL/SPRING NUMBER..... 03S-01W-22-131

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. 26
 MAP REFERENCE..... SOCORRO 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1964/01/22
 TEMPERATURE (C)..... 32.
 DISCHARGE..... 908. L/MIN

COORDINATES
 LAT/LONG... 34-02.27 N 106-56.33 W
 TOWNSHIP-RANGE
 03S 001W 22 NW OF SW OF NW
 B6M1 NEW MEXICO PRINCIPAL

DISCHARGE..... L/MIN
 WATER ANALYSIS
 P-1..... 7.9
 SPECIFIC CONDUCTANCE..... 352.
 TOTAL DISSOLVED SOLIDS..... 237.
 CHARGE IMBALANCE (% DIFF).... 0.4
 ANALYSIS IN PPM
 AG..... CO3..... N
 AL..... CR..... 3.2
 B..... 0.08 F..... 0.6 MG..... 54.
 HE..... FE(TOT) 0.07 NA..... 31.
 CA..... 20. MC03..... 164. NB..... 31.
 CL..... 12. NO3... 1.0
 CO..... K..... 3.0
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

RECORD 00222
 GEOTHERM FILE ID: 0001649

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SOCORRO - SOCORRO GALLERY
WELL/SPRING NUMBER..... 035-01W-22-113

LOCATION

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... SOCORRO
GEOLOGIC PROVINCE... 26
MAP REFERENCE..... SOCORRO 1124000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR..... 1965/10/23
TEMPERATURE (C)..... 34.
DISCHARGE..... 1105. L/MIN

OTHER SAMPLE INFORMATION.. ANALYSIS FROM SUMMERS, 1976, LOC. 2

WATER ANALYSIS

PH..... 8.54
SPECIFIC GRAVITY..... 0.00995
SPECIFIC CONDUCTANCE..... 340.
TOTAL DISSOLVED SOLIDS... 234.
ANALYSIS IN PPM

| | | | |
|--------------|-----------|---------|-------|
| AG..... | CO3..... | LI..... | 0.06 |
| AL..... N | CR..... | MG..... | 4.0 |
| AS..... 0.02 | CS..... | MN..... | 0.06 |
| AU..... | CU..... | MO..... | |
| H..... 0.03 | F..... | NA..... | 53. |
| HK..... 0.38 | | | |
| CA..... 18. | HCO3..... | | 129. |
| CL..... 16. | I..... | | 0.028 |
| CO..... | K..... | | 3.0 |

QUALIFICATION FIELD..... DENSITY AT 20 C (MG/L).

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... SUMMERS, 1976

ISOLOPES 10/2001

SE... N 21.
SI02.

RECORD 00223

GEOTHERM FILE ID: 0070906

NAME OF SAMPLE SOURCE... UNNAMED BAUGER CATTLE CO. WELL (1)

LOCATION

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... SOCORRO
GEOLOGIC PROVINCE... OROGRANDE BASIN
MAP REFERENCE..... MAGDALENA 1162500
OTHER LOCALITY INFORMATION: ALTITUDE 6002 FT.

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 47
TEMPERATURE (C)..... 20.
WELL DEPTH (M)..... 119.

OTHER SAMPLE INFORMATION.. STOCK SUPPLY.

WATER ANALYSIS

PH..... 7.1
TOTAL DISSOLVED SOLIDS... 190.
ANALYSIS IN PPM

| | | | |
|---------|---------|---------|----|
| AL..... | CR..... | MG..... | B. |
|---------|---------|---------|----|

ISOLOPES 10/2001

COORDINATES

LAT/LONG... 34-10.4 N 107-09.32 W

H.....
 HE.....
 CA..... 34.
 CL..... 14.
 F.....
 FE(TOT).....
 HCO3..... 156.
 NA.....
 NB.....
 S04... 23.
 S04... 18.

REFERENCE AND IDENTIFICATION
 COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00224

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED BADGER CATTLE CO. WELL (2)
 WELL/SPRING NUMBER..... 02S-03W-01-322
 LOCATION

GEOTHERM FILE ID: 0070918

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. OROGRANDE BASIN
 MAP REFERENCE..... MAGDALENA 1162500
 OTHER LOCALITY INFORMATION: ALTITUDE 5874 FT.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1960/06/30
 SAMPLE NUMBER..... 206
 TEMPERATURE (C)..... 23.
 WELL DEPTH (M)..... 49.
 OTHER SAMPLE INFORMATION.. STOCK USE.

COORDINATES

LAT/LONG... 34-09.08 N 107-05.25 W

TOWNSHIP=RANGE

02S 003W 01 NE OF NE OF SW
 B&M: NEW MEXICO PRINCIPAL

PH.....
 TOTAL DISSOLVED SOLIDS... 7.9
 ANALYSIS IN PPM

ISOLOPES 10/2001

AL.....
 H.....
 HE.....
 CA..... 26.
 CL..... 14.
 CR.....
 F.....
 FE(TOT).....
 HCO3..... 161.
 MG.....
 NA.....
 NB.....
 S04... 7.
 S04... 35.
 S04... 18.

REFERENCE AND IDENTIFICATION
 COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00225

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED SPRING
 LOCATION

GEOTHERM FILE ID: 0001819

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. 26
 MAP REFERENCE..... SAN ACACIA 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 21.
 OTHER SAMPLE INFORMATION..
 DATE/COLLECTOR.....
 SAMPLE NUMBER.....
 TEMPERATURE (C).....
 WELL DEPTH (M).....
 OTHER SAMPLE INFORMATION..
 WATER ANALYSIS

COORDINATES

LAT/LONG... 34-15.84 N 106-52.98 W

TOWNSHIP=RANGE

B&M: NEW MEXICO PRINCIPAL

REFERENCE AND IDENTIFICATION
 COMPILED BY.....
 REFERENCE.....
 MAP REFERENCE.....
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C).....
 OTHER LOCALITY INFORMATION: ALTITUDE 5874 FT.
 DATE/COLLECTOR.....
 SAMPLE NUMBER.....
 TEMPERATURE (C).....
 WELL DEPTH (M).....
 OTHER SAMPLE INFORMATION..
 WATER ANALYSIS

RECORD 00226
 GEOTHERM FILE ID: 0001833

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... UNNAMED SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. 26
 MAP REFERENCE..... RILEY 1:62500
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 22.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R. & BROOK, C.
 REFERENCE..... HERRY AND OTHERS, 1980

COORDINATES
 LAT/LONG... 34-19.56 N 107-05.70 W

TOWNSHIP=RANGE
 T8M: NEW MEXICO PRINCIPAL

RECORD 00227
 GEOTHERM FILE ID: 0001812

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... UNNAMED SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. 26
 MAP REFERENCE..... SAN ANTONIO 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 21.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R. & BROOK, C.
 REFERENCE..... HERRY AND OTHERS, 1980

COORDINATES
 LAT/LONG... 33-48.78 N 106-58.26 W

TOWNSHIP=RANGE
 T8M: NEW MEXICO PRINCIPAL

RECORD 00228
 GEOTHERM FILE ID: 0070923

GEOTHERM_SAMPLE_FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL-EAST OF SOCORRO PEAK
 WELL/SPRING NUMBER..... 03S-01W-04-433
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. OROGRANDE BASIN
 MAP REFERENCE..... SOCORRO 1:24000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1966/08/23
 SAMPLE NUMBER..... 367
 TEMPERATURE (C)..... 39.
 WATER ANALYSIS

COORDINATES
 LAT/LONG... 34-04.3 N 106-56.8 W

TOWNSHIP=RANGE
 T3S 001W 04
 T8M: NEW MEXICO PRINCIPAL

PH..... 7.7
 SPECIFIC CONDUCTANCE..... 3460.
 CHARGE BALANCE (% DIFF)... 0.9
 ANALYSIS IN PPM

ISOTOPES (10/2001)

MG... 2.1
 NA... 626.

CR..... 1.1
 F.....

AL..... 0.6
 H.....

SI02. 23.

HE..... 60. FE(TOT). 0.27 NB... S04.. 163.
 CA..... 945. HCO3.... 83.

CL..... CO..... K..... 38.

REFERENCE AND IDENTIFICATION

COMPILED BY..... MORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00229

GEOTHERM SAMPLE FILE-----GEOTHERM FILE ID: 0070910

NAME OF SAMPLE SOURCE... UNNAMED WELL-SW OF PUEBLITO PT.
 WELL/SPRING NUMBER..... 02S-01W-36-134

LOCATION

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SOCOPORO
 GEOLOGIC PROVINCE.. OROGRANDE BASIN
 MAP REFERENCE..... SOCOPORO 1:24000

COORDINATES

LAT/LONG... 34-05.9 N 106-54.1 W

TOWNSHIP-RANGE

02S 001W 36 SE OF SW OF NW
 B&M: NEW MEXICO PRINCIPAL

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 130

TEMPERATURE (C)..... 20.

WELL DEPTH (M)..... 32.

OTHER SAMPLE INFORMATION.. DOMESTIC USE.

WATER ANALYSIS

PH..... 7.6

TOTAL DISSOLVED SOLIDS... 250.

ANALYSIS IN PPM

AL.....

CR.....

F.....

FE(TOT).....

HCO3.....

CA..... 38.

CL..... 22.

MG..... 11.

NA..... 45.

NB.....

S04.. 60.

ISOTOPES 10/2001

RECORD 00230

GEOTHERM SAMPLE FILE-----GEOTHERM FILE ID: 0070913

NAME OF SAMPLE SOURCE... V. GONZALES WELL

WELL/SPRING NUMBER..... 02S-01W-36-314

LOCATION

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... SOCOPORO

GEOLOGIC PROVINCE.. OROGRANDE BASIN

MAP REFERENCE..... SOCOPORO 1:24000

OTHER LOCALITY INFORMATION: ALTITUDE 4620 FT.

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 146

TEMPERATURE (C)..... 22.

WELL DEPTH (M)..... 27.

COORDINATES

LAT/LONG... 34-05.9 N 106-54.0 W

TOWNSHIP-RANGE

02S 001W 36 SE OF NW OF SW
 B&M: NEW MEXICO PRINCIPAL

OTHER SAMPLE INFORMATION.. DOMESTIC USE.

WATER ANALYSIS

PH..... 7.6
TOTAL DISSOLVED SOLIDS... 254.

ANALYSIS IN PPM

AL.....
H.....
HE.....
CA..... 38.
CL..... 22.
CR.....
F.....
FE(TOT)..
HCU3..... 185.
MG.... 13.
NA.... 39.
NB....
504... 48.

ISOIOPES 10/001

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00231

GEOTHERM FILE ID: 0001613

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... MAMBY (AMERICAN) HOT SPRINGS

WELL/SPRING NUMBER..... 26N-11E-01-120

LOCATION..... UNITED STATES

COUNTRY..... NEW MEXICO
STATE..... TAOS
COUNTY.....
GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... ARROYO MONDO 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1974/12/03

TEMPERATURE (C)..... 34.

DISCHARGE..... 114. L/MIN

PARENT LITHOLOGY..... BASALT

OTHER SAMPLE INFORMATION.. MAX TEMP REPORTED OF 38 C

WATER ANALYSIS

PH..... 6.9
SPECIFIC CONDUCTANCE..... 794.

ALKALINITY..... 202.03 AS HCO3

CHARGE IMBALANCE (% DIFF)... 0.7

ANALYSIS IN MG/L

AG.....
AL.....
AS.....
H..... 0.27
HE.....
HR..... 0.5
CA..... 27.
CO.....
CL..... 56.
CO3..... N
CR.....
CS.....
F..... 3.8
FE(TOT)..
HCU3..... 202.
H2S.....
LI.... 0.29
MG.... 5.7
MN.... N
NA.... 130.
NB....
504... 58.
504... 130.

ISOIOPES 10/001

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... SUMMERS, 1976

RECORD 00232

GEOTHERM FILE ID: 0001610

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... OJO CALIENTE (JOSEPH'S HOT SPRING)
WELL/SPRING NUMBER... 24N-008E-24-110
LOCATION
COUNTRY... UNITED STATES
STATE... NEW MEXICO
COUNTY... TAOS
GEOLOGIC PROVINCE... 26
MAP REFERENCE... OJO CALIENTE 1:24000
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1974/12/03
TEMPERATURE (C)... 42.8
PERTINENT LITHOLOGY... GNEISS
OTHER SAMPLE INFORMATION: ANALYSIS FROM IRUP SPRING, WATER USED IN SPA, TOTAL FLOW 265 L/MIN, NEARBY WELL
ENCOUNTERED 55.7 C WATER AT 26.5 M
WATER ANALYSIS
P... 6.65
CHARGE IMBALANCE (% DIFF)... 3.8
ANALYSIS IN PPM

ISOTOPES (0/001)

| | | | | |
|---------|------------|-------|--------|-------|
| AG..... | CO3..... | N | LI.... | 4.3 |
| AL..... | CR..... | | MG.... | 8.5 |
| AS..... | CS..... | | MN.... | 0.15 |
| AR..... | F..... | 13.5 | NA.... | 980. |
| HE..... | FE(TOT)... | 0.06 | NB.... | 55. |
| HR..... | | | | 504.. |
| CA..... | HCO3..... | 2073. | NO3.. | 0.12 |
| CL..... | | | | |
| CO..... | K..... | 31.5 | | |

REFERENCE AND IDENTIFICATION
COMPILED BY... ARNOCK, C.A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE... SUMMERS, 1976

GEOTHERM FILE ID: 0001612
RECORD 00233
GEOTHERM FILE ID: 0001612

NAME OF SAMPLE SOURCE... PONCE DE LEON HOT SPRINGS
WELL/SPRING NUMBER... 24N-13E-07-000
LOCATION
COUNTRY... UNITED STATES
STATE... NEW MEXICO
COUNTY... TAOS
GEOLOGIC PROVINCE... 26
MAP REFERENCE... RANCHOS DE TAOS 1:24000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1965/12/05
TEMPERATURE (C)... 34.5
DISCHARGE... 530.
WATER ANALYSIS
P... 8.14
SPECIFIC CONDUCTANCE... 740.
TOTAL DISSOLVED SOLIDS... 486.
ANALYSIS IN PPM

ISOTOPES (0/001)

| | | | | |
|---------|----------|---|--------|------|
| AG..... | CO3..... | N | LI.... | 0.27 |
| AL..... | CR..... | | MG.... | 0.48 |
| AS..... | CS..... | | MN.... | 0.11 |

AU..... 9.5 CU..... 3.1 MO.... 0.033
 B..... F..... NA.... SI02. 86.
 BE..... FE(TOT). 0.01
 BR..... 2.1 HC03.... 76.
 CA..... 12. H2S..... P04.. N
 CD..... 78. I..... 0.015
 CL..... K..... 4.6
 CO.....
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

RECORD 00234

GEOTHERM FILE ID: 0001611

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... PONCE DE LEON HOT SPRINGS
 WELL/SPRING NUMBER..... 24N-13E-07-000
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... TAOS
 GEOLOGIC PROVINCE.. SAN LUIS BASIN
 MAP REFERENCE..... RANCHOS DE TAOS 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1974/12/03
 TEMPERATURE (C)..... 34.
 PERMITTING LITHOLOGY..... GRANITE
 OTHER SAMPLE INFORMATION.. MAX TEMP 35 C/TOTAL DISCHARGE FOR GROUP 90B L/MIN; FAULT ZONE

COORDINATES
 LAT/LONG... 36-19.42 N 105-36.36 W

ISOLINES 10/001

AG..... CO3..... LI.... 0.36
 AL..... CR..... MG.... 0.5
 AS..... CS..... MN.... 0.1
 B..... F..... 12.5 SI02. 50.
 HE..... FE(TOT). 0.08 NO3.. 118.
 HR..... 0.32
 CA..... 11. NO3.. 0.13
 CL..... 96.

REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

RECORD 00235

GEOTHERM FILE ID: 0001614

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... INNAMED SPRING
 WELL/SPRING NUMBER..... 2/N-12E-36-411
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... TAOS

COORDINATES
 LAT/LONG... 36-31.7 N 105-42.8 W

GEOLOGIC PROVINCE... 26
 MAP REFERENCE..... ARROYO HONDO 1:24000
 --OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1965/12/04
 TEMPERATURE (C)..... 37.
 DISCHARGE..... 1.9 L/MIN
 PERTINENT LITHOLOGY..... BASALT
 --OTHER SAMPLE INFORMATION.. BERRY(1980) REPORTS TEMPERATURE OF 41 C.
 WATER ANALYSIS

PH.....
 SPECIFIC GRAVITY..... 0.991
 SPECIFIC CONDUCTANCE..... 740.
 ANALYSIS IN PPM
 AG.....
 AL..... 2.4
 AS..... 0.011
 AU.....
 H..... 0.18
 HE.....
 BR..... 2.3
 CA..... 29.
 CD.....
 CL..... 55.
 CO.....
 CO3..... 3.
 CR.....
 CS.....
 CU.....
 F..... 2.3
 FE(TOT).. 0.047
 LI..... 0.28
 MG..... 4.9
 MN..... 0.11
 MO.....
 NA..... 130.
 NI.....
 P.....
 PO4... N
 SE... N 103.
 SI02..

QUALIFICATION FIELD..... DENSITY AT 20 C (MG/L).
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION.. U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

RECORD 00236

GEOOTHERM FILE ID: 0001837

GEOOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... TAOS
 GEOLOGIC PROVINCE.. SAN LUIS BASIN
 MAP REFERENCE..... ARROYO HONDO 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 41.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARTINEZ, R. & BROOK, C.
 REFERENCE..... BERRY AND OTHERS, 1980

COORDINATES

LAT/LONG... 36-31.68 N 105-42.78 W

TOWNSHIP=RANGE
 B&M: NEW MEXICO PRINCIPAL

RECORD 00237

GEOOTHERM FILE ID: 0001836

GEOOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... ALAMOS SPRING
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... VALENCIA
 GEOLOGIC PROVINCE.. 27

COORDINATES

LAT/LONG... 35-03.60 N 107-07.98 W

TOWNSHIP=RANGE
 B&M: NEW MEXICO PRINCIPAL

MAP REFERENCE..... MESA GIGANTE 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 22.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R. & BROOK, C.
 REFERENCE..... HERRY AND OTHERS, 1980

RECORD 00238
 GEOTHERM FILE ID: 0001668

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... DENT WINDMILL
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... VALENCIA
 GEOLOGIC PROVINCE.. 28
 MAP REFERENCE..... ATARQUE LAKE 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1979/09
 TEMPERATURE (C)..... 23.4
 WATER ANALYSIS

PH..... 7.2
 CHARGE BALANCE (% DIFF)... 8.0
 ANALYSIS IN PPM
 AG.....
 AL.....
 AS.....
 AR.....
 BA.....
 BE.....
 BI.....
 CA.....
 CL.....
 CO.....
 CU.....
 CR.....
 CS.....
 F.....
 FE(TOT).....
 GA.....
 HCO3.....
 K.....
 LI.....
 MG.....
 MN.....
 NA.....
 NH4.....
 NI.....
 NO.....
 SI.....
 SR.....
 T.....
 V.....
 W.....
 Z.....

ISOTOPES 10/001

RECORD 00239
 GEOTHERM FILE ID: 0001823

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... EL OJO ESCONDIDO
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... VALENCIA
 GEOLOGIC PROVINCE.. 26
 MAP REFERENCE..... SOUTH GARCIA 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 23.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R. & BROOK, C.
 REFERENCE..... HERRY AND OTHERS, 1980

ISOTOPES 10/001

RECORD 00240
GEOTHERM FILE ID: 0001827

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... LAGUNA PUEBLO SEEPS
WATER NUMBER... 3
LOCATION
COUNTRY... UNITED STATES
STATE... NEW MEXICO
COUNTY... VALENCIA
GEOLOGIC PROVINCE... 26
MAP REFERENCE... SOUTH GARCIA 1:24000
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C)... 28.
REFERENCE AND IDENTIFICATION
COMPILED BY... MARINEK, R. & BROOK, C.
REFERENCE... BERRY AND OTHERS, 1980

COORDINATES
LAT/LONG... 34-49.98 N 107-05.46 W

TOWNSHIP-RANGE
T6M: NEW MEXICO PRINCIPAL

RECORD 00241
GEOTHERM FILE ID: 0001825

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... LAGUNA PUEBLO SPRING
LOCATION
COUNTRY... UNITED STATES
STATE... NEW MEXICO
COUNTY... VALENCIA
GEOLOGIC PROVINCE... 26
MAP REFERENCE... SOUTH GARCIA SE 1:24000
SAMPLE DESCRIPTION AND CONDITIONS
TEMPERATURE (C)... 27.
REFERENCE AND IDENTIFICATION
COMPILED BY... MARINEK, R. & BROOK, C.
REFERENCE... BERRY AND OTHERS, 1980

COORDINATES
LAT/LONG... 34-51.24 N 107-05.28 W

TOWNSHIP-RANGE
T6M: NEW MEXICO PRINCIPAL

RECORD 00242
GEOTHERM FILE ID: 0001669

GEOTHERM SAMPLE FILE
NAME OF SAMPLE SOURCE... SACRED SPRING
LOCATION
COUNTRY... UNITED STATES
STATE... NEW MEXICO
COUNTY... VALENCIA
GEOLOGIC PROVINCE... 28
MAP REFERENCE... OJO CALIENTE RESERVOIR 1:24000
SAMPLE DESCRIPTION AND CONDITIONS
DATE/COLLECTOR... 1979/08
TEMPERATURE (C)... 21.
WATER ANALYSIS
PH... 7.1
CHARGE IMBALANCE (% DIFF)... 12.1
ANALYSIS IN PPM
AG...
AL...
AS...
H... 0.009
NA... 0.027

COORDINATES
LAT/LONG... 34-54.50 N 108-57.53 W

TOWNSHIP-RANGE
08N 020W 20
T6M: NEW MEXICO PRINCIPAL

ISOTOPES (0/001)

LI... 0.156
MG... 38.5
MN... 0.001
NA... 53.
SI02... 17.4

398.
1.14S04..
SR...NB...
NH4..FE(10T). 0.03
GA.....
HCO3.... 317.2

K..... 5.2

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.

COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... LEVITTE AND GAMBILL, 1980

RECORD 00243

GEUTHERM FILE ID: 0001832

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SPRING
LOCATION

TOWNSHIP=RANGE

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... VALENCIACOORDINATES
LAT/LONG... 34-41.88 N 107-07.74 W

MAP REFERENCE..... MESA APAREJO 1:62500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 22.

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R. & BROOK, C.

REFERENCE..... BERRY AND OTHERS, 1980

RECORD 00244

GEUTHERM FILE ID: 0001826

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SPRING(SALT)

LOCATION

TOWNSHIP=RANGE

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... VALENCIACOORDINATES
LAT/LONG... 34-50.82 N 107-05.46 W

MAP REFERENCE..... SOUTH GARCIA SE 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 24.

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R. & BROOK, C.

REFERENCE..... BERRY AND OTHERS, 1980

RECORD 00245

GEUTHERM FILE ID: 0001829

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SPRING(SALT)

LOCATION

TOWNSHIP=RANGE

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... VALENCIACOORDINATES
LAT/LONG... 34-48.48 N 107-05.46 W

MAP REFERENCE..... SOUTH GARCIA SE 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 30.

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R. & BROOK, C.

REFERENCE..... HERRY AND OTHERS, 1980

RECORD 00246

GEOTHERM FILE ID: 0001831

GEOTHERM_SAMPLE_FILE
 LOCATION
 NAME OF SAMPLE SOURCE... SPRING(SALT)
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... VALENCIA
 GEOLOGIC PROVINCE.. 26
 MAP REFERENCE..... SOUTH GARCIA SE 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 26.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R. & BROOK, C.
 REFERENCE..... HERRY AND OTHERS, 1980

TOWNSHIP=RANGE

86M: NEW MEXICO PRINCIPAL

COORDINATES

LAT/LONG... 34-46.14 N 107-05.10 W

RECORD 00247

GEOTHERM FILE ID: 0001830

GEOTHERM_SAMPLE_FILE
 LOCATION
 NAME OF SAMPLE SOURCE... UNNAMED SPRING
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... VALENCIA
 GEOLOGIC PROVINCE.. 26
 MAP REFERENCE..... SOUTH GARCIA SE 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 27.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R. & BROOK, C.
 REFERENCE..... HERRY AND OTHERS, 1980

TOWNSHIP=RANGE

86M: NEW MEXICO PRINCIPAL

COORDINATES

LAT/LONG... 34-47.46 N 107-05.46 W

RECORD 00248

GEOTHERM FILE ID: 0001824

GEOTHERM_SAMPLE_FILE
 LOCATION
 NAME OF SAMPLE SOURCE... UNNAMED SPRING
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... VALENCIA
 GEOLOGIC PROVINCE.. 26
 MAP REFERENCE..... SOUTH GARCIA 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 23.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R. & BROOK, C.
 REFERENCE..... HERRY AND OTHERS, 1980

TOWNSHIP=RANGE

86M: NEW MEXICO PRINCIPAL

COORDINATES

LAT/LONG... 34-52.98 N 107-05.52 W

RECORD 00249

GEOTHERM FILE ID: 0001828

GEOTHERM_SAMPLE_FILE
 LOCATION
 NAME OF SAMPLE SOURCE... UNNAMED SPRING
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... VALENCIA
 GEOLOGIC PROVINCE.. 26
 MAP REFERENCE..... SOUTH GARCIA 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 23.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R. & BROOK, C.
 REFERENCE..... HERRY AND OTHERS, 1980

TOWNSHIP=RANGE

86M: NEW MEXICO PRINCIPAL

COORDINATES

LAT/LONG... 34-48.90 N 107-23.28 W

STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... VALENCIA
 GEOLOGIC PROVINCE.. 25
 MAP REFERENCE..... MARION RANCH 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 20.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R. & BROOK, C.
 REFERENCE..... BERRY AND OTHERS, 1980

----- RECORD 00250 -----
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED SPRING
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... VALENCIA
 GEOLOGIC PROVINCE.. 26
 MAP REFERENCE..... SOUTH GARCIA 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 20.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R. & BROOK, C.
 REFERENCE..... BERRY AND OTHERS, 1980

COORDINATES
 LAT/LONG... 34-54.96 N 107-08.58 W

GEOTHERM FILE ID: 0001822

----- RECORD 00251 -----
 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED WELL
 WELL/SPRING NUMBER..... 06N-03E-05-234
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... NEW MEXICO 06N 003E 05 SE OF SW OF NE
 COUNTY..... VALENCIA B&M: NEW MEXICO PRINCIPAL
 GEOLOGIC PROVINCE.. 26
 MAP REFERENCE..... TONE 1:24000
 OTHER LOCALITY INFORMATION: LOCATION UNCERTAIN
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1970/05/22
 TEMPERATURE (C)..... 80.
 WELL DEPTH (M)..... 220. L/MIN
 DISCHARGE.....
 WATER ANALYSIS

COORDINATES
 LAT/LONG... 34-43.8 N 106-43.2 W

GEOTHERM FILE ID: 0001650

ISOTOPES 10/001

PH..... 7.4
 SPECIFIC CONDUCTANCE..... 3450.
 TOTAL DISSOLVED SOLIDS... 3440.
 ANALYSIS IN PPM
 AG..... 3.2
 AL.....
 AR.....
 BA.....
 BR.....
 CA..... 415.
 CL..... 42.
 CR.....
 CU.....
 FE.....
 FE(TOT)... 0.27
 HCO3..... 51.
 MG..... 176.
 MU.....
 NA.....
 NH.....
 NI.....
 NO.....
 O.....
 P.....
 S.....
 SI.....
 SO.....
 T.....
 U.....
 V.....
 W.....
 Z.....
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.

SI02. 29.
 S04.. 2090.

COMPLETE AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... SUMMERS, 1976

APPENDIX A

Index to GEOTHERM's sample file for the state of New Mexico. This computer generated appendix contains some truncated fields. The index is sorted by county and name of the source. TNS - Township, RNG - Range, Sect. - Section, I.D. - GEOTHERM record identifier, Temp. - temperature °C (see Table 1 for explanation of alphabetic qualifiers preceding temperature.)

| County | Name of Source | Latitude | Longitude | TNS | RNG | Sect. | I.D. | Temp. |
|------------|---|------------|-------------|-----|------|-------|---------|-------|
| BERNALILLO | CLEAR WATER SPRING | 34-59.70 N | 106-27.24 W | | | | 0001818 | 21. |
| CATRON | ARAGON SPRINGS | 33-53.88 N | 108-30.06 W | | | | 0001815 | 21. |
| CATRON | FREIBORN CANYON SPRING | 33-42.5 N | 109-01.5 W | 07S | 021W | 08 | 0001615 | 33.3 |
| CATRON | GILA NATIONAL FOREST - UNNAMED HOT SPRING | 33-14.00 N | 108-14.08 W | 12S | 014W | 24 | 0002952 | 66.0 |
| CATRON | JERRY WELL | 34-28.37 N | 108-42.44 W | 03N | 018W | 22 | 0001671 | 24. |
| CATRON | MIDDLE FORK GILA RIVER - TEST WELL 1 | 33-13.8 N | 108-14.4 W | 12S | 013W | 30 | 0001662 | 32.2 |
| CATRON | MIDDLE FORK GILA RIVER - UNNAMED SEEP | 33-17.1 N | 108-15.6 W | 11S | 014W | 35 | 0001666 | 27.2 |
| CATRON | MIDDLE FORK GILA RIVER - UNNAMED SPRING | 33-15.5 N | 108-13.4 W | 12S | 013W | 07 | 0001663 | 21.9 |
| CATRON | MIDDLE FORK GILA RIVER - UNNAMED SPRING | 33-15.5 N | 108-13.4 W | 12S | 013W | 07 | 0001664 | 34.4 |
| CATRON | PUEBLO WINDMILL | 34-32.40 N | 108-46.63 W | 04N | 019W | 25 | 0001670 | 33.8 |
| CATRON | SAN FRANCISCO HOT SPRINGS (LOWER FRISCO HOT SPR | 33-14.68 N | 108-52.87 W | 12S | 020W | 23 | 0000675 | 37.0 |
| CATRON | THE MEADOWS (WARM SPRING) | 33-18.4 N | 108-19.4 W | 11S | 014W | 30 | 0001665 | 30. |
| CATRON | UNNAMED | 34-09.48 N | 108-19.14 W | | | | 0001834 | 22. |
| CATRON | UPPER FRISCO HOT SPRINGS | 33-49.9 N | 108-48.0 W | 05S | 019W | 34 | 0001616 | 36.7 |
| CHAVES | ALLISON WELL | 33-18.93 N | 104-28.17 W | 11S | 024E | 26 | 0070837 | 20.5 |
| CHAVES | ALLISON WELL | 33-18.93 N | 104-28.17 W | 11S | 024E | 26 | 0070836 | 20.7 |
| CHAVES | ALLISON WELL | 33-18.42 N | 104-27.78 W | 11S | 024E | 25 | 0070835 | 20.9 |
| CHAVES | ALLISON WELL | 33-18.42 N | 104-27.78 W | 11S | 024E | 25 | 0070834 | 20.2 |
| CHAVES | ALLISON WELL | 33-18.42 N | 104-27.78 W | 11S | 024E | 25 | 0070833 | 20.5 |
| CHAVES | ALLISON WELL | 33-19.13 N | 104-27.80 W | 11S | 024E | 25 | 0070832 | 20.2 |
| CHAVES | ALLISON WELL | 33-19.13 N | 104-27.80 W | 11S | 024E | 25 | 0070831 | 20. |
| CHAVES | CLARDY EAST WELL | 33-21.07 N | 104-23.55 W | 11S | 025E | 15 | 0070842 | 20.7 |
| CHAVES | CLARDY EAST WELL | 33-21.07 N | 104-23.55 W | 11S | 025E | 15 | 0070841 | 20.6 |
| CHAVES | CLARDY WELL | 33-20.92 N | 104-22.73 W | 11S | 025E | 23 | 0070846 | 21. |
| CHAVES | CLARDY WELL | 33-20.92 N | 104-22.73 W | 11S | 025E | 23 | 0070845 | 20.6 |
| CHAVES | COGDILL - DOMESTIC WELL | 33-26.33 N | 104-30.22 W | 10S | 024E | 15 | 0070817 | 20. |
| CHAVES | COGDILL - DOMESTIC WELL | 33-26.33 N | 104-30.22 W | 10S | 024E | 15 | 0070816 | 20. |
| CHAVES | CORN RANCH - SECTION 13 WINDMILL | 33-37.52 N | 104-40.17 W | 08S | 022E | 13 | 0070806 | 21. |
| CHAVES | CORN RANCH - SECTION 16 WINDMILL | 33-37.58 N | 104-37.62 W | 08S | 023E | 16 | 0070809 | 24. |
| CHAVES | CORN RANCH - SECTION 16 WINDMILL | 33-37.58 N | 104-37.62 W | 08S | 023E | 16 | 0070808 | 24. |
| CHAVES | CORN RANCH - SECTION 16 WINDMILL | 33-37.58 N | 104-37.62 W | 08S | 023E | 16 | 0070814 | 21. |
| CHAVES | CORN RANCH - SECTION 16 WINDMILL | 33-37.58 N | 104-37.62 W | 08S | 023E | 16 | 0070813 | 25. |
| CHAVES | CORN RANCH - SECTION 16 WINDMILL | 33-37.58 N | 104-37.62 W | 08S | 023E | 16 | 0070811 | 21.5 |
| CHAVES | CORN RANCH - SECTION 16 WINDMILL | 33-37.58 N | 104-37.62 W | 08S | 023E | 16 | 0070810 | 24. |
| CHAVES | CORN RANCH - SECTION 16 WINDMILL | 33-37.58 N | 104-37.62 W | 08S | 023E | 16 | 0070812 | 21.5 |
| CHAVES | CORN RANCH - SECTION 22 WINDMILL | 33-36.72 N | 104-42.12 W | 08S | 022E | 22 | 0070807 | 24. |
| CHAVES | CORN RANCH - SECTION 36 WINDMILL | 33-39.85 N | 104-39.92 W | 07S | 022E | 36 | 0070805 | 23.4 |
| CHAVES | CORN RANCH - SECTION 36 WINDMILL | 33-39.85 N | 104-39.92 W | 07S | 022E | 36 | 0070804 | 22. |
| CHAVES | CORN RANCH - SECTION 36 WINDMILL | 33-39.85 N | 104-39.92 W | 07S | 022E | 36 | 0070803 | 20. |
| CHAVES | CORN RANCH - SECTION 36 WINDMILL | 33-39.85 N | 104-39.92 W | 07S | 022E | 36 | 0070802 | 22. |
| CHAVES | CORN RANCH - SECTION 36 WINDMILL | 33-22.90 N | 104-33.70 W | 11S | 023E | 01 | 0070825 | 20.6 |
| CHAVES | HENDRICK WELL | 33-21.98 N | 104-34.58 W | 11S | 023E | 12 | 0070826 | 20. |
| CHAVES | JENNINGS WELL | 33-21.98 N | 104-34.58 W | 11S | 023E | 12 | 0070827 | 20.4 |

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| CHAVES | JOHNSON IRRIGATION WELL | 33-02.95 N 104-20.73 W 15S 026E | 04 | 0070857 | 26. |
| CHAVES | OASIS WELL | 33-21.05 N 104-23.82 W 11S 025E | 15 | 0070838 | 20.5 |
| CHAVES | OASIS WELL | 33-21.05 N 104-23.82 W 11S 025E | 15 | 0070840 | 20.5 |
| CHAVES | OASIS WELL | 33-21.05 N 104-23.82 W 11S 025E | 15 | 0070839 | 20. |
| CHAVES | PATTERSON WELL | 33-17.63 N 104-38.53 W 12S 023E | 05 | 0070850 | 20. |
| CHAVES | PATTERSON WELL | 33-17.87 N 104-39.33 W 12S 023E | 06 | 0070852 | 20.4 |
| CHAVES | PATTERSON WELL (LITTLE CAT) | 33-18.18 N 104-39.20 W 12S 023E | 06 | 0070851 | 20.7 |
| CHAVES | POLLARD WELL | 33-01.35 N 104-17.72 W 15S 026E | 13 | 0070859 | 23.8 |
| CHAVES | POLLARD WELL | 33-01.35 N 104-17.72 W 15S 026E | 13 | 0070858 | 24.2 |
| CHAVES | PVACD OBSERVATION WELL NO. 4 | 33-11.80 N 104-54.37 W 13S 020E | 13 | 0070853 | 20.5 |
| CHAVES | SMITH WELL | 33-21.78 N 104-35.78 W 11S 023E | 15 | 0070828 | 20.5 |
| CHAVES | SMITH WELL | 33-21.78 N 104-35.78 W 11S 023E | 15 | 0070829 | 22. |
| CHAVES | SOUTH SPRING - LINCOLN WELL | 33-20.13 N 104-28.32 W 11S 024E | 23 | 0070830 | 20. |
| CHAVES | STENGROF (ELK WELL) | 33-25.72 N 104-23.42 W 10S 025E | 23 | 0070819 | 19.5 |
| CHAVES | T. CORN RANCH HOUSE WINDMILL | 33-41.02 N 104-41.93 W 07S 022E | 26 | 0070801 | 22. |
| CHAVES | UNNAMED WELL | 33-26.12 N 104-30.12 W 10S 024E | 22 | 0070818 | 20. |
| CHAVES | UNNAMED WELL | 33-20.20 N 104-24.88 W 11S 025E | 21 | 0070843 | 20. |
| CHAVES | UNNAMED WINDMILL | 33-07.02 N 104-27.82 W 14S 025E | 08 | 0070855 | 20.6 |
| CHAVES | VILLA SOLANO SCHOOL WELL | 33-10.47 N 104-29.95 W 13S 024E | 24 | 0070854 | 22.2 |
| CHAVES | WHEELER WELL | 33-19.33 N 104-25.03 W 11S 025E | 29 | 0070849 | 20. |
| CHAVES | WHEELER WELL | 33-19.28 N 104-24.85 W 11S 025E | 28 | 0070847 | 20. |
| CHAVES | WINDMILL | 33-21.67 N 104-56.35 W 11S 020E | 28 | 0070848 | 17.5 |
| CHAVES | WINDMILL | 33-21.67 N 104-56.35 W 11S 020E | 15 | 0070822 | 20. |
| CHAVES | WINDMILL | 33-21.67 N 104-56.35 W 11S 020E | 15 | 0070821 | 22.7 |
| CHAVES | WOOD'S RANCH WINDMILL | 33-21.80 N 104-45.78 W 11S 022E | 18 | 0070823 | 21. |
| CHAVES | WOODS RANCH WINDMILL | 33-22.30 N 104-43.95 W 11S 022E | 09 | 0070824 | 20. |
| DONA ANA | FEDERAL "H" NO. 1 WELL | 31-51.6 N 107-01.8 W 28S 002W | 24 | 0001636 | 45. |
| DONA ANA | LOS ALTURAS ESTATES - EMMETT NATIIONS WELL | 32-16.8 N 106-42.3 W 23S 002E | 34 | 0001641 | 45.1 |
| DONA ANA | RADIUM HOT SPRINGS WELL | 32-30.08 N 106-55.90 W 21S 001W | 10 | 0000673 | 52.0 |
| DONA ANA | UNNAMED WELL | 32-15.30 N 106-58.58 W 23S 001W | 31 | 0001640 | 32.2 |
| DONA ANA | UNNAMED WELL | 32-04.8 N 107-36.6 W 26S 003E | 02 | 0001637 | 35.6 |
| DONA ANA | UNNAMED WELL | 32-16.8 N 107-01.2 W 23S 002W | 25 | 0001639 | 36. |
| DONA ANA | WELL | 32-08.4 N 106-52.2 W 25S 001E | 17 | 0001638 | 31.1 |
| EDDY | HANES IRRIGATION WELL | 32-50.63 N 104-20.83 W 17S 026E | 11 | 0070870 | 23.0 |
| EDDY | HANES IRRIGATION WELL | 32-50.63 N 104-20.83 W 17S 026E | 11 | 0070869 | 22.7 |
| EDDY | HANES IRRIGATION WELL | 32-50.63 N 104-20.83 W 17S 026E | 11 | 0070868 | 23.0 |
| EDDY | HOPE MUNICIPAL WELL | 32-48.58 N 104-44.10 W 17S 023E | 30 | 0070862 | 20. |
| EDDY | MENEFEE IRRIGATION WELL | 32-48.75 N 104-24.70 W 17S 026E | 29 | 0070874 | 22. |
| EDDY | SHARP WELL | 32-50.50 N 104-21.03 W 17S 026E | 14 | 0070871 | 23.6 |
| EDDY | SHARP WELL | 32-50.50 N 104-21.03 W 17S 026E | 14 | 0070873 | 23.5 |
| EDDY | SHARP WELL | 32-50.50 N 104-21.03 W 17S 026E | 14 | 0070872 | 23. |
| EDDY | SULLIVAN WELL | 32-50.60 N 104-22.07 W 17S 026E | 10 | 0070867 | 23.6 |
| EDDY | SULLIVAN WELL | 32-50.60 N 104-22.07 W 17S 026E | 10 | 0070866 | 23.2 |
| EDDY | SULLIVAN WELL | 32-50.60 N 104-22.07 W 17S 026E | 10 | 0070865 | 23.8 |
| EDDY | UNNAMED IRRIGATION WELL | 32-53.62 N 104-24.42 W 16S 026E | 29 | 0070861 | 23. |
| EDDY | UNNAMED WELL | 32-54.07 N 104-24.17 W 16S 026E | 20 | 0070860 | 23. |
| EDDY | UNNAMED WELL | 32-50.72 N 104-22.42 W 17S 026E | 10 | 0070863 | 21.2 |
| EDDY | UNNAMED WELL | 32-50.72 N 104-22.42 W 17S 026E | 10 | 0070864 | 20. |
| EDDY | UNNAMED WELL | 33-20.20 N 104-24.88 W 11S 025E | 21 | 0070844 | 21. |
| EDDY | UNNAMED WELL | 32-45.80 N 104-22.58 W 18S 026E | 10 | 0070875 | 22.2 |
| EDDY | VANDIVER WELL | 32-44.82 N 104-25.55 W 18S 026E | 18 | 0070877 | 23.6 |
| EDDY | VANDIVER WELL | 32-44.82 N 104-24.27 W 18S 026E | 17 | 0070876 | 20. |
| EDDY | VANDIVER WELL | 32-44.65 N 104-25.17 W 18S 026E | 18 | 0070878 | 24. |

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| GRANT | ALLEN SPRINGS | 32-53.04 | N | 108-21.48 | W | 16S | 015W | 26 | 0001807 | 25.6 |
| GRANT | APACHE TEJO WARM SPRINGS - WELL 4 | 32-38.6 | N | 108-07.7 | W | 19S | 012W | 19 | 0001632 | 36. |
| GRANT | ASH SPRING | 32-49.26 | N | 108-24.48 | W | | | | 0001809 | 22. |
| GRANT | CLIFF WARM SPRING | 32-58.45 | N | 108-37.75 | W | 15S | 017W | 30 | 0001620 | 25. |
| GRANT | EAST FORK GILA RIVER - UNNAMED HOT SPRING | 33-11.5 | N | 108-11. | W | 13S | 013W | 10 | 0002957 | Q 36. |
| GRANT | FAYWOOD HOT SPRINGS | 32-33.2 | N | 107-59.6 | W | 20S | 011W | 20 | 0001634 | 55. |
| GRANT | GILA HOT SPRINGS | 33-11.94 | N | 108-12.54 | W | 13S | 013W | 05 | 0000677 | 68.0 |
| GRANT | GILA HOT SPRINGS | 33-11.9 | N | 108-12.5 | W | 13S | 013W | 05 | 0001661 | 64. |
| GRANT | GILA RIVER - UNNAMED HOT SPRING | 33-10. | N | 108-11. | W | | | | 0002956 | 43.0 |
| GRANT | GOAT CAMP SPRING | 32-49.80 | N | 109-02.82 | W | | | | 0001811 | 21. |
| GRANT | HOT SPRING | 33-14.08 | N | 108-14.00 | W | 12S | 014W | 24 | 0001816 | 64.8 |
| GRANT | KENNECOTT WARM SPRINGS(WELLS) | 32-33.7 | N | 108-01.6 | W | 20S | 011W | 18 | 0001633 | 34. |
| GRANT | LYONS LODGE HOT SPRINGS | 33-11.5 | N | 108-10.8 | W | 13S | 013W | 10 | 0001660 | 52. |
| GRANT | MANGAS SPRINGS | 32-50.58 | N | 108-30.67 | W | 17S | 016W | 08 | 0001808 | 27. |
| GRANT | MIMBRES HOT SPRINGS | 32-44.9 | N | 107-50.2 | W | 18S | 001W | 13 | 0001635 | 62. |
| GRANT | RIVERSIDE STORE WELL | 32-55.8 | N | 108-36.0 | W | 16S | 017W | 09 | 0001619 | 30. |
| GRANT | SPRING CANYON WARM SPRING | 32-56.4 | N | 108-40.8 | W | 16S | 017W | 34 | 0001618 | 29. |
| GRANT | TURKEY CREEK - UNNAMED HOT SPRING | 33-06.48 | N | 108-28.98 | W | 14S | 016W | 03 | 0001817 | 74.6 |
| GRANT | UNNAMED | 33-11.5 | N | 108-10.7 | W | 13S | 013W | 10 | 0001624 | 41. |
| GRANT | UNNAMED | 33-09.7 | N | 108-12.5 | W | 13S | 013W | 20 | 0001622 | 44.7 |
| GRANT | UNNAMED | 33-11.5 | N | 108-10.7 | W | 13S | 013W | 10 | 0001623 | 41. |
| GRANT | UNNAMED SPRING | 32-53.94 | N | 109-02.10 | W | | | | 0001810 | 21. |
| GRANT | WELL | 32-58.8 | N | 108-35.4 | W | 15S | 017W | 27 | 0001621 | 35. |
| GRANT | WELL | 32-40.8 | N | 108-02.4 | W | 19S | 012W | 12 | 0001631 | 62. |
| HIDALGO | LIGHTNING DOCK AREA - HOT WELLS | 32-08.70 | N | 108-50.00 | W | 25S | 019W | 07 | 0000669 | 99.0 |
| HIDALGO | WELL | 32-25.8 | N | 108-58.8 | W | 22S | 021W | 03 | 0001617 | 31. |
| LINCOLN | TROUT FARM | | | | | 10S | 017E | 29 | 0070815 | 18. |
| LUNA | WELL (SOUTH OF CARNE) | 32-15.20 | N | 107-34.83 | W | 24S | 007W | 05 | 0001630 | 39. |
| MCKINLEY | ARTESIAN WELL | 35-43.13 | N | 108-41.4 | W | 17N | 017W | | 0001676 | 23. |
| MCKINLEY | CHURCH ROCK SCHOOL WELL | 35-33.0 | N | 108-36.6 | W | 17N | 018W | | 0001667 | 20. |
| MCKINLEY | PURE OIL NAVAJO NO 1 | 35-51.08 | N | 108-40.10 | W | 19N | 017W | 29 | 0001626 | 36. |
| MCKINLEY | PURE OIL NO. 3 | 35-51.2 | N | 108-37.8 | W | 19N | 017W | 22 | 0001625 | 35. |
| MCKINLEY | RAINBOW SPRING | 34-54.63 | N | 108-57.03 | W | 08N | 020W | 21 | 0001677 | 21. |
| MCKINLEY | STANDING ROCK SPRING | 35-48.6 | N | 108-22.2 | W | 18N | 014W | | 0001672 | 21. |
| MCKINLEY | STINKING SPRING | 35-21.30 | N | 108-35.55 | W | 13N | 017W | 13 | 0001673 | 23.2 |
| MCKINLEY | TOH SAH TOH | 35-52.2 | N | 108-40.8 | W | 19N | 017W | | 0001674 | 37. |
| MCKINLEY | WELL | 35-29.4 | N | 108-33.3 | W | 15N | 016W | 30 | 0001627 | 61. |
| MCKINLEY | YA-TA-HEY WELL | 35-38.4 | N | 108-46.8 | W | 16N | 018W | 06 | 0001678 | 45.5 |
| MCKINLEY | 14T-510 | 35-42.0 | N | 108-42.0 | W | 12S | 020W | | 0001675 | 23. |
| OTERO | UNNAMED WELL NORTH OF DAVIS DOME (1) | 32-04.85 | N | 106-09.3 | W | 25S | 008E | 32 | 0001467 | 61.1 |
| OTERO | UNNAMED WELL WEST OF DAVIS DOME (1) | 32-04.55 | N | 106-10.6 | W | 26S | 007E | 01 | 0001466 | Q 50. |
| RIO ARRIBA | STATUE SPRING | 36-22.08 | N | 106-03.54 | W | | | | 0001838 | 28. |
| SAN MIGUEL | MONTUZUMA HOT SPRINGS | 35-39.2 | N | 105-17.4 | W | 17N | 015E | 36 | 0001629 | 55. |
| SAN MIGUEL | BACA 11 - UNION OIL CO. | 35-53. | N | 106-34. | W | 19N | 003E | 12 | 0016502 | |
| SAN MIGUEL | BACA 11 - UNION OIL CO. | 35-53. | N | 106-34. | W | 19N | 003E | 12 | 0016501 | |
| SAN MIGUEL | BACA 11 - UNION OIL CO. | 35-53. | N | 106-34. | W | 19N | 003E | 12 | 0016500 | |
| SAN MIGUEL | BACA 11 - UNION OIL CO. | 35-53. | N | 106-34. | W | 19N | 003E | 12 | 0016503 | |
| SAN MIGUEL | BUDDHIST SPRING | 35-46.5 | N | 106-41. | W | | | | 0001748 | 49. |
| SAN MIGUEL | BUDDHIST SPRINGS | 35-46.5 | N | 106-41. | W | | | | 0001753 | 50. |
| SAN MIGUEL | GROTTO SPRING | 35-47.5 | N | 106-41. | W | 18N | 002E | | 0001745 | 38. |
| SAN MIGUEL | INDIAN SPRINGS | 35-35.5 | N | 106-45.2 | W | 16N | 002E | 29 | 0001655 | 51. |
| SAN MIGUEL | JEMEZ SPRINGS (MAIN ORIFICE) | 35-46.5 | N | 106-41. | W | | | | 0001750 | 55. |
| SAN MIGUEL | JEMEZ SPRINGS (MAIN ORIFICE) | 35-46.5 | N | 106-41. | W | | | | 0001755 | 35.5 |
| SAN MIGUEL | JEMEZ SPRINGS (OJOS CALIENTES) | 35-47. | N | 106-41. | W | | | | 0000671 | 65.0 |

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| SANDOVAL | JEMEZ WELL - 500 FT AQUIFER | 35-46.5 | N | 106-41. | W | | | | 0001752 | 60.5 |
| SANDOVAL | JEMEZ WELL - 80 FT. AQUIFER | 35-46.5 | N | 110-58.6 | W | | | | 0001756 | 68. |
| SANDOVAL | KASEMAN NO. 2 (WARM SPRINGS) | 35-38.8 | N | 106-53.3 | W | 16N | 001W | 01 | 0001653 | 53. |
| SANDOVAL | KASEMAN NO.1 | 35-38.1 | N | 106-51.6 | W | 16N | 001E | 08 | 0001654 | 46. |
| SANDOVAL | LASL GT-2-LOS ALAMOS SCIENTIFIC LAB | 35-53.0 | N | 106-40.4 | W | 19N | 002E | 13 | 0016635 | 197. |
| SANDOVAL | LITTLE SPENCE HOT SPRING | 35-50.90 | N | 106-37.80 | W | 19N | 003E | 28 | 0001743 | 34. |
| SANDOVAL | MCCAULEY SPRING | 35-49.20 | N | 106-37.61 | W | 18N | 003E | 04 | 0001743 | 31. |
| SANDOVAL | MCCAULEY SPRING | 35-49.20 | N | 106-37.61 | W | 19N | 003E | 04 | 0001657 | 32. |
| SANDOVAL | PHILLIP'S SPRINGS | 35-36.13 | N | 106-51.55 | W | 15N | 001E | 05 | 0001652 | 21. |
| SANDOVAL | SAN ANTONIO HOT SPRINGS | 35-56.28 | N | 106-38.72 | W | 20N | 003E | 29 | 0001658 | 40. |
| SANDOVAL | SAN ANTONIO HOT SPRINGS | 35-56.33 | N | 106-38.60 | W | 20N | 003E | 29 | 0001744 | 42. |
| SANDOVAL | SAN ANTONIO WARM SPRING | 35-58.28 | N | 106-33.62 | W | 20N | 004E | 07 | 0001659 | 37. |
| SANDOVAL | SAN YSIDRO - UNNAMED MINERAL SPRING | 35-31.7 | N | 106-50.8 | W | 15N | 001E | 16 | 0002958 | 11.0 |
| SANDOVAL | SAN YSIDRO - UNNAMED SPRING | 35-32.88 | N | 106-49.62 | W | | | | 0015254 | 24.0 |
| SANDOVAL | SAN YSIDRO - UNNAMED WARM SPRING | 35-32.6 | N | 106-49.8 | W | 15N | 001E | 10 | 0002960 | 15.0 |
| SANDOVAL | SODA DAM SPRING | 35-47.6 | N | 106-41.1 | W | 18N | 002E | 14 | 0001746 | 47. |
| SANDOVAL | SODA DAM SPRING | 35-47.5 | N | 106-41. | W | | | | 0001749 | 48. |
| SANDOVAL | SODA DAM SPRINGS | 35-47.49 | N | 106-41.18 | W | 18N | 002E | 14 | 0001656 | 47.8 |
| SANDOVAL | SPENCE HOT SPRING | 35-50.33 | N | 106-37.40 | W | 19N | 003E | 28 | 0001741 | 45. |
| SANDOVAL | SPRING AT JEMEZ SPRINGS | 35-46.32 | N | 106-41.40 | W | | | | 0015253 | 75.0 |
| SANDOVAL | SPRING IN CALAVERAS CANYON | 35-54.42 | N | 106-36.92 | W | 19N | 003E | 03 | 0015251 | 41.0 |
| SANDOVAL | SULPHUR SPRINGS - LEMONADE SPRING | 35-46.5 | N | 106-41. | W | | | | 0015250 | 65.0 |
| SANDOVAL | TRAVERTINE MOUND SPRING | 35-46.5 | N | 106-41. | W | | | | 0001747 | 70. |
| SANDOVAL | TRAVERTINE MOUND SPRING | 35-18.48 | N | 106-28.26 | W | | | | 0001754 | 72. |
| SANDOVAL | UNNAMED SPRING | 35-46.5 | N | 106-41. | W | | | | 0001835 | 20. |
| SANDOVAL | UNNAMED WARM SPRING | 35-46.5 | N | 106-41. | W | | | | 0001751 | 49. |
| SANDOVAL | UNNAMED WARM SPRING (SOUTH OF SAN YSIDRO PEAK) | 35-32.2 | N | 106-50.7 | W | 15N | 026E | 16 | 0002959 | 25.0 |
| SANDOVAL | UNNAMED WARM SPRING SOUTH OF THE RIO SALADO RIV | 35-32.1 | N | 106-50.8 | W | 15N | 001E | 16 | 001651 | 29. |
| SANDOVAL | WARM SPRINGS | 35-38.76 | N | 106-53.28 | W | 16N | 001W | 01 | 0015255 | 54.0 |
| SIERRA | BARNEY IORIO NO. 1 | 33-03.6 | N | 107-18.0 | W | 14S | 005W | 25 | 0001643 | 33. |
| SIERRA | DERRY WARM SPRINGS | 32-47.72 | N | 107-16.62 | W | 17S | 004W | 29 | 0001642 | 33. |
| SIERRA | GARTON WELL | 32-46.2 | N | 107-41.7 | W | 18S | 008E | 05 | 0001628 | 34. |
| SIERRA | TRUTH OR CONSEQUENCES | 33-08.1 | N | 107-15.2 | W | 13S | 004W | 33 | 0001644 | 42. |
| SIERRA | UNNAMED SPRING | 32-57.18 | N | 107-34.80 | W | | | | 0001806 | 35. |
| SIERRA | VICTORIA LAND AND CATTLE CO. NO. 1 | 33-24.0 | N | 106-54.0 | W | 10S | 001W | 25 | 0001645 | 34. |
| SIERRA | WARM SPRINGS | 33-16.74 | N | 107-33.78 | W | | | | 0001814 | 31. |
| SOCORRO | ARMS. & ARMS. CONS WELL | 34-12.6 | N | 106-55.38 | W | 01S | 001W | 22 | 0070902 | 20. |
| SOCORRO | BENAVIDEZ WELL | 34-05.30 | N | 106-53.35 | W | 02S | 001W | 36 | 0070915 | 20. |
| SOCORRO | CAMPBELL WELL | 34-11.62 | N | 106-55.82 | W | 01S | 001W | 22 | 0070903 | 21. |
| SOCORRO | CHAVEZ WELL | 34-02.94 | N | 106-53.68 | W | 03S | 001W | 13 | 0070927 | 20. |
| SOCORRO | CIBOLA NATIONAL FOREST WELL | 34-01.5 | N | 107-07.82 | W | 03S | 003W | 26 | 0070928 | 23. |
| SOCORRO | DELONG WELL | 34-05.40 | N | 106-54.05 | W | 02S | 001W | 36 | 0070912 | 20. |
| SOCORRO | DUKE WELL | 34-09.35 | N | 106-55.08 | W | 02S | 001W | 11 | 0070907 | 21. |
| SOCORRO | FAIR GROUNDS WELL | 34-01.95 | N | 106-54.18 | W | 03S | 001W | 24 | 0070926 | 21. |
| SOCORRO | FRANK FERNANDEZ WELL | 33-57.65 | N | 106-50.67 | W | 04S | 001E | 16 | 0070929 | 20. |
| SOCORRO | GALLEGOS WELL | 34-05.39 | N | 106-54.06 | W | 02S | 001W | 36 | 0070914 | 22. |
| SOCORRO | GEORGE SICKLES WELL | 34-03.00 | N | 106-53.95 | W | 03S | 001W | 13 | 0070925 | 21. |
| SOCORRO | GRAY AND LIGON RANCH - UNNAMED SPRING | 34-19.5 | N | 107-05.7 | W | 01N | 002W | 07 | 0070930 | 21. |
| SOCORRO | GRAY WELL | 34-08.5 | N | 107-05.5 | W | 02S | 002W | 18 | 0070917 | 20. |
| SOCORRO | GRAY WELL (2) | 34-08.63 | N | 107-07.83 | W | 02S | 003W | 11 | 0070920 | 20. |
| SOCORRO | GRAY WELL (2) | 34-08.63 | N | 107-07.83 | W | 02S | 003W | 11 | 0070921 | 20. |
| SOCORRO | HIGGINS WELL | 34-13.0 | N | 106-55.0 | W | 01S | 001W | 14 | 0070900 | 21. |
| SOCORRO | J. COURTNEY WELL | 34-06.40 | N | 107-08.17 | W | 02S | 003W | 27 | 0070922 | 23. |
| SOCORRO | LA TOSSA WELL | 34-08.7 | N | 107-05.2 | W | 02S | 003W | 07 | 0070919 | 21. |

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|----------|------------------------------------|----------|---|-----------|---|-----|------|----|---------|------|
| SOCORRO | MARTIN WELL | 34-10.67 | N | 106-55.65 | W | 01S | 001W | 34 | 0070905 | 20. |
| SOCORRO | MARTIN WELL (2) | 34-07.3 | N | 106-56.0 | W | 02S | 001W | 22 | 0070908 | 23. |
| SOCORRO | NMINTRES. TASKW WELL | 34-03.95 | N | 106-55.42 | W | 03S | 001W | 10 | 0070924 | 21. |
| SOCORRO | OJITOS SPRINGS | 34-06.96 | N | 106-58.80 | W | | | | 0001820 | 21. |
| SOCORRO | OJO CALIENTE | 33-34.32 | N | 107-35.58 | W | | | | 0001813 | 28. |
| SOCORRO | OJO DE LAS CANAS | 34-01.92 | N | 106-46.62 | W | | | | 0001821 | 26. |
| SOCORRO | OTERO WELL | 34-05.9 | N | 106-53.9 | W | 02S | 001W | 36 | 0070916 | 20. |
| SOCORRO | PURDUE WELL | 34-05.9 | N | 106-53.9 | W | 02S | 001W | 36 | 0070911 | 22. |
| SOCORRO | SEDILLA SPRING | 34-02.27 | N | 106-56.30 | W | 03S | 001W | 22 | 0070932 | 31. |
| SOCORRO | SEDILLA SPRING | 34-02.27 | N | 106-56.30 | W | 03S | 001W | 22 | 0070931 | 32. |
| SOCORRO | SEDILLA SPRING | 34-02.27 | N | 106-56.30 | W | 03S | 001W | 22 | 0070933 | 32. |
| SOCORRO | SEVEDRA WELL | 34-12.5 | N | 106-54.9 | W | 01S | 001W | 23 | 0070904 | 20. |
| SOCORRO | SLOAN WELL | 34-06.8 | N | 106-53.8 | W | 02S | 001W | 25 | 0070909 | 20. |
| SOCORRO | SOCORRO - BLUE CANYON WELL | 34-02.8 | N | 106-57.1 | W | 03S | 001W | 16 | 0001647 | 33. |
| SOCORRO | SOCORRO - CORE HOLE | 34-04.8 | N | 106-57.0 | W | 03S | 001W | 04 | 0001646 | 42.7 |
| SOCORRO | SOCORRO - SEDILLA GALLERY | 34-02.27 | N | 106-56.33 | W | 03S | 001W | 22 | 0001648 | 32. |
| SOCORRO | SOCORRO - SOCORRP GALLERY | 34-02.27 | N | 106-56.33 | W | 03S | 001W | 22 | 0001649 | 34. |
| SOCORRO | UNNAMED BADGER CATTLE CO. WELL (1) | 34-10.4 | N | 107-09.32 | W | 01S | 003W | 33 | 0070906 | 20. |
| SOCORRO | UNNAMED BADGER CATTLE CO. WELL (2) | 34-09.08 | N | 107-05.25 | W | 02S | 003W | 01 | 0070918 | 23. |
| SOCORRO | UNNAMED SPRING | 34-15.84 | N | 106-52.98 | W | | | | 0001819 | 21. |
| SOCORRO | UNNAMED SPRING | 34-19.56 | N | 107-05.70 | W | | | | 0001833 | 22. |
| SOCORRO | UNNAMED SPRING | 33-48.78 | N | 106-58.26 | W | | | | 0001812 | 21. |
| SOCORRO | UNNAMED WELL-EAST OF SOCORRO PEAK | 34-04.3 | N | 106-56.8 | W | 03S | 001W | 04 | 0070923 | 39. |
| SOCORRO | UNNAMED WELL-SW OF PUEBLITO PT. | 34-05.9 | N | 106-54.1 | W | 02S | 001W | 36 | 0070910 | 20. |
| SOCORRO | V. GONZALES WELL | 34-05.9 | N | 106-54.0 | W | 02S | 001W | 36 | 0070913 | 22. |
| TAOS | MAMBY (AMERICAN) HOT SPRINGS | 36-30.99 | N | 105-43.42 | W | 26N | 011E | 12 | 0001613 | 34. |
| TAOS | OJO CALIENTE (JOSEPH'S HOT SPRING) | 36-18.3 | N | 106-03.2 | W | 24N | 008E | 24 | 0001610 | 42.8 |
| TAOS | PONCE DE LEON HOT SPRINGS | 36-19.42 | N | 105-36.36 | W | 24N | 013E | 07 | 0001612 | 34.5 |
| TAOS | PONCE DE LEON HOT SPRINGS | 36-19.42 | N | 105-36.36 | W | 24N | 013E | 07 | 0001611 | 34. |
| TAOS | UNNAMED SPRING | 36-31.7 | N | 105-42.8 | W | 27N | 012E | 36 | 0001614 | 37. |
| TAOS | UNNAMED SPRING | 36-31.68 | N | 105-42.78 | W | | | | 0001837 | 41. |
| VALENCIA | ALANOS SPRING | 35-03.60 | N | 107-07.98 | W | | | | 0001836 | 22. |
| VALENCIA | DENT WINDMILL | 34-50.30 | N | 108-50.02 | W | 07N | 019W | 15 | 0001668 | 23.4 |
| VALENCIA | EL OJO ESCONDIDO | 34-54.18 | N | 107-05.10 | W | | | | 0001823 | 23. |
| VALENCIA | LAGUNA PUEBLO SEEPS | 34-49.98 | N | 107-05.46 | W | | | | 0001827 | 28. |
| VALENCIA | LAGUNA PUEBLO SPRING | 34-51.24 | N | 107-05.28 | W | | | | 0001825 | 27. |
| VALENCIA | SACRED SPRING | 34-54.50 | N | 108-57.53 | W | 08N | 020W | 20 | 0001669 | 21. |
| VALENCIA | SPRING | 34-41.88 | N | 107-07.74 | W | | | | 0001832 | 22. |
| VALENCIA | SPRING(SALT) | 34-50.82 | N | 107-05.46 | W | | | | 0001826 | 24. |
| VALENCIA | SPRING(SALT) | 34-48.48 | N | 107-05.46 | W | | | | 0001829 | 30. |
| VALENCIA | SPRING(SALT) | 34-46.14 | N | 107-05.10 | W | | | | 0001831 | 26. |
| VALENCIA | UNNAMED SPRING | 34-47.46 | N | 107-05.46 | W | | | | 0001830 | 27. |
| VALENCIA | UNNAMED SPRING | 34-52.98 | N | 107-05.52 | W | | | | 0001824 | 23. |
| VALENCIA | UNNAMED SPRING | 34-48.90 | N | 107-23.28 | W | | | | 0001828 | 20. |
| VALENCIA | UNNAMED SPRING | 34-54.96 | N | 107-08.58 | W | | | | 0001822 | 20. |
| VALENCIA | UNNAMED WELL | 34-43.8 | N | 106-43.2 | W | 06N | 003E | 05 | 0001650 | 80. |

APPENDIX B

Index to GEOTHERM sample file for the state of New Mexico sorted by county, township (TNS), range (RNG), and section (Sect.) Also given are the name of source, GEOTHERM record identifier (I.D.), and temperature (Temp. °C). See Table 1 for explanation of alphabetic qualifiers preceding temperature.

| <u>County</u> | <u>TNS</u> | <u>RNG</u> | <u>Sect.</u> | <u>Name of Source</u> | <u>I.D.</u> | <u>Temp.</u> |
|---------------|------------|------------|--------------|---|-------------|--------------|
| BERNALILLO | | | | CLEAR WATER SPRING | 0001818 | 21. |
| CATRON | | | | ARAGON SPRINGS | 0001815 | 21. |
| CATRON | | | | UNNAMED | 0001834 | 22. |
| CATRON | 03N | 018W | 22 | JERRY WELL | 0001671 | 24. |
| CATRON | 04N | 019W | 25 | PUEBLO WINDMILL | 0001670 | 33.8 |
| CATRON | 05S | 019W | 34 | UPPER FRISCO HOT SPRINGS | 0001616 | 36.7 |
| CATRON | 07S | 021W | 08 | FREIBORN CANYON SPRING | 0001615 | 33.3 |
| CATRON | 11S | 014W | 30 | THE MEADOWS (WARM SPRING) | 0001665 | 30. |
| CATRON | 11S | 014W | 35 | MIDDLE FORK GILA RIVER - UNNAMED SEEP | 0001666 | 27.2 |
| CATRON | 12S | 013W | 07 | MIDDLE FORK GILA RIVER - UNNAMED SPRING | 0001663 | 21.9 |
| CATRON | 12S | 013W | 07 | MIDDLE FORK GILA RIVER - UNNAMED SPRING | 0001664 | 34.4 |
| CATRON | 12S | 013W | 30 | MIDDLE FORK GILA RIVER - TEST WELL 1 | 0001662 | 32.2 |
| CATRON | 12S | 014W | 24 | GILA NATIONAL FOREST - UNNAMED HOT SPRING | 0002952 | 66.0 |
| CATRON | 12S | 020W | 23 | SAN FRANCISCO HOT SPRINGS (LOWER FRISCO HOT SPR | 0000675 | 37.0 |
| CHAVES | | | 16 | CORN RANCH - SECTION 16 WINDMILL | 0070809 | 24. |
| CHAVES | 07S | 022E | 26 | T. CORN RANCH HOUSE WINDMILL | 0070801 | 22. |
| CHAVES | 07S | 022E | 36 | CORN RANCH - SECTION 36 WINDMILL | 0070805 | 23.4 |
| CHAVES | 07S | 022E | 36 | CORN RANCH - SECTION 36 WINDMILL | 0070804 | 22. |
| CHAVES | 07S | 022E | 36 | CORN RANCH - SECTION 36 WINDMILL | 0070803 | 20. |
| CHAVES | 07S | 022E | 36 | CORN RANCH - SECTION 36 WINDMILL | 0070802 | 22. |
| CHAVES | 08S | 022E | 13 | CORN RANCH - SECTION 13 WINDMILL | 0070806 | 21. |
| CHAVES | 08S | 022E | 22 | CORN RANCH - SECTION 22 WINDMILL | 0070807 | 24. |
| CHAVES | 08S | 023E | 16 | CORN RANCH - SECTION 16 WINDMILL | 0070808 | 24. |
| CHAVES | 08S | 023E | 16 | CORN RANCH - SECTION 16 WINDMILL | 0070814 | 21. |
| CHAVES | 08S | 023E | 16 | CORN RANCH - SECTION 16 WINDMILL | 0070813 | 25. |
| CHAVES | 08S | 023E | 16 | CORN RANCH - SECTION 16 WINDMILL | 0070811 | 21.5 |
| CHAVES | 08S | 023E | 16 | CORN RANCH - SECTION 16 WINDMILL | 0070810 | 24. |
| CHAVES | 08S | 023E | 16 | CORN RANCH - SECTION 16 WINDMILL | 0070812 | 21.5 |
| CHAVES | 10S | 024E | 15 | COGDILL - DOMESTIC WELL | 0070817 | 20. |
| CHAVES | 10S | 024E | 15 | COGDILL - DOMESTIC WELL | 0070816 | 20. |
| CHAVES | 10S | 024E | 22 | UNNAMED WELL | 0070818 | 20. |
| CHAVES | 10S | 025E | 23 | STENGROF (ELK WELL) | 0070819 | 19.5 |
| CHAVES | 11S | 020E | 15 | WINDMILL | 0070822 | 20. |
| CHAVES | 11S | 020E | 15 | WINDMILL | 0070821 | 22.7 |
| CHAVES | 11S | 020E | 15 | WINDMILL | 0070820 | 20.5 |
| CHAVES | 11S | 022E | 09 | WOODS RANCH WINDMILL | 0070824 | 20. |
| CHAVES | 11S | 022E | 18 | WOOD'S RANCH WINDMILL | 0070823 | 21. |
| CHAVES | 11S | 023E | 01 | HENDRICK WELL | 0070825 | 20.6 |
| CHAVES | 11S | 023E | 12 | JENNINGS WELL | 0070826 | 20. |
| CHAVES | 11S | 023E | 12 | JENNINGS WELL | 0070827 | 20.4 |
| CHAVES | 11S | 023E | 15 | SMITH WELL | 0070828 | 20.5 |
| CHAVES | 11S | 023E | 15 | SMITH WELL | 0070829 | 22. |
| CHAVES | 11S | 024E | 23 | SOUTH SPRING - LINCOLN WELL | 0070830 | 20. |
| CHAVES | 11S | 024E | 25 | ALLYSON WELL | 0070832 | 20.2 |
| CHAVES | 11S | 024E | 25 | ALLYSON WELL | 0070831 | 20. |

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|----------|----------|----|---|---------|------|
| CHAVES | 11S 024E | 25 | ALLYSON WELL | 0070835 | 20.9 |
| CHAVES | 11S 024E | 25 | ALLYSON WELL | 0070834 | 20.2 |
| CHAVES | 11S 024E | 25 | ALLYSON WELL | 0070833 | 20.5 |
| CHAVES | 11S 024E | 26 | ALLISON WELL | 0070836 | 20.7 |
| CHAVES | 11S 024E | 26 | ALLISON WELL | 0070837 | 20.5 |
| CHAVES | 11S 025E | 15 | OASIS WELL | 0070838 | 20.5 |
| CHAVES | 11S 025E | 15 | OASIS WELL | 0070840 | 20.5 |
| CHAVES | 11S 025E | 15 | OASIS WELL | 0070839 | 20. |
| CHAVES | 11S 025E | 15 | CLARDY EAST WELL | 0070842 | 20.7 |
| CHAVES | 11S 025E | 15 | CLARDY EAST WELL | 0070841 | 20.6 |
| CHAVES | 11S 025E | 21 | UNNAMED WELL | 0070843 | 20. |
| CHAVES | 11S 025E | 23 | CLARDY WELL | 0070846 | 21. |
| CHAVES | 11S 025E | 23 | CLARDY WELL | 0070845 | 20.6 |
| CHAVES | 11S 025E | 28 | WHEELER WELL | 0070847 | 20. |
| CHAVES | 11S 025E | 28 | WHEELER WELL | 0070848 | 17.5 |
| CHAVES | 11S 025E | 29 | WHEELER WELL | 0070849 | 20. |
| CHAVES | 12S 023E | 05 | PATTERSON WELL | 0070850 | 20. |
| CHAVES | 12S 023E | 06 | PATTERSON WELL (LITTLE CAT) | 0070851 | 20.7 |
| CHAVES | 12S 023E | 06 | PATTERSON WELL | 0070852 | 20.4 |
| CHAVES | 13S 020E | 13 | PVACD OBSERVATION WELL NO. 4 | 0070853 | 20.5 |
| CHAVES | 13S 024E | 24 | VILLA SOLANO SCHOOL WELL | 0070854 | 22.2 |
| CHAVES | 14S 025E | 08 | UNNAMED WINDMILL | 0070855 | 20.6 |
| CHAVES | 15S 026E | 04 | JOHNSON IRRIGATION WELL | 0070857 | 26. |
| CHAVES | 15S 026E | 13 | POLLARD WELL | 0070859 | 23.8 |
| CHAVES | 15S 026E | 13 | POLLARD WELL | 0070858 | 24.2 |
| DONA ANA | 21S 001W | 10 | RADIUM HOT SPRINGS WELL | 0000673 | 52.0 |
| DONA ANA | 23S 001W | 31 | UNNAMED WELL | 0001640 | 32.2 |
| DONA ANA | 23S 002E | 34 | LOS ALTURAS ESTATES - EMMETT NATIONS WELL | 0001641 | 45.1 |
| DONA ANA | 23S 002W | 25 | UNNAMED WELL | 0001639 | 36. |
| DONA ANA | 25S 001E | 17 | WELL | 0001638 | 31.1 |
| DONA ANA | 26S 003E | 02 | UNNAMED WELL | 0001637 | 35.6 |
| DONA ANA | 28S 002W | 24 | FEDERAL "H" NO. 1 WELL | 0001636 | 45. |
| EDDY | 11S 025E | 21 | UNNAMED WELL | 0070844 | 21. |
| EDDY | 16S 026E | 20 | UNNAMED WELL | 0070860 | 23. |
| EDDY | 16S 026E | 29 | UNNAMED IRRIGATION WELL | 0070861 | 23. |
| EDDY | 17S 023E | 30 | HOPE MUNICIPAL WELL | 0070862 | 20. |
| EDDY | 17S 026E | 10 | UNNAMED WELL | 0070863 | 21.2 |
| EDDY | 17S 026E | 10 | SULLIVAN WELL | 0070867 | 23.6 |
| EDDY | 17S 026E | 10 | SULLIVAN WELL | 0070866 | 23.2 |
| EDDY | 17S 026E | 10 | SULLIVAN WELL | 0070865 | 23.8 |
| EDDY | 17S 026E | 10 | UNNAMED WELL | 0070864 | 20. |
| EDDY | 17S 026E | 11 | HANES IRRIGATION WELL | 0070870 | 23.0 |
| EDDY | 17S 026E | 11 | HANES IRRIGATION WELL | 0070869 | 22.7 |
| EDDY | 17S 026E | 11 | HANES IRRIGATION WELL | 0070868 | 23.0 |
| EDDY | 17S 026E | 14 | SHARP WELL | 0070871 | 23.6 |
| EDDY | 17S 026E | 14 | SHARP WELL | 0070873 | 23.5 |
| EDDY | 17S 026E | 14 | SHARP WELL | 0070872 | 23. |
| EDDY | 17S 026E | 29 | MENEFEE IRRIGATION WELL | 0070874 | 22. |
| EDDY | 18S 026E | 10 | UNNAMED WELL | 0070875 | 22.2 |
| EDDY | 18S 026E | 17 | VANDIVER WELL | 0070876 | 20. |
| EDDY | 18S 026E | 18 | VANDIVER WELL | 0070877 | 23.6 |
| EDDY | 18S 026E | 18 | VANDIVER WELL | 0070878 | 24. |
| GRANT | | | GILA RIVER - UNNAMED HOT SPRING | 0002956 | 43.0 |
| GRANT | | | GOAT CAMP SPRING | 0001811 | 21. |

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|------------|-----|------|--|---------|-------|
| GRANT | | | UNNAMED SPRING | 0001810 | 21. |
| GRANT | | | ASH SPRING | 0001809 | 22. |
| GRANT | 12S | 014W | 24 HOT SPRING | 0001816 | 64.8 |
| GRANT | 13S | 013W | 05 GILA HOT SPRINGS | 0000677 | 68.0 |
| GRANT | 13S | 013W | 05 GILA HOT SPRINGS | 0001661 | 64. |
| GRANT | 13S | 013W | 10 UNNAMED | 0001624 | 41. |
| GRANT | 13S | 013W | 10 UNNAMED | 0001623 | 41. |
| GRANT | 13S | 013W | 10 LYONS LODGE HOT SPRINGS | 0001660 | 52. |
| GRANT | 13S | 013W | 10 EAST FORK GILA RIVER - UNNAMED HOT SPRING | 0002957 | Q 36. |
| GRANT | 13S | 013W | 20 UNNAMED | 0001622 | 44.7 |
| GRANT | 14S | 016W | 03 TURKEY CREEK - UNNAMED HOT SPRING | 0001817 | 74.6 |
| GRANT | 15S | 017W | 27 WELL | 0001621 | 35. |
| GRANT | 15S | 017W | 30 CLIFF WARM SPRING | 0001620 | 25. |
| GRANT | 16S | 015W | 26 ALLEN SPRINGS | 0001807 | 25.6 |
| GRANT | 16S | 017W | 09 RIVERSIDE STORE WELL | 0001619 | 30. |
| GRANT | 16S | 017W | 34 SPRING CANYON WARM SPRING | 0001618 | 29. |
| GRANT | 17S | 016W | 08 MANGAS SPRINGS | 0001808 | 27. |
| GRANT | 18S | 001W | 13 MIMBRES HOT SPRINGS | 0001635 | 62. |
| GRANT | 19S | 012W | 12 WELL | 0001631 | 62. |
| GRANT | 19S | 012W | 19 APACHE TEJO WARM SPRINGS - WELL 4 | 0001632 | 36. |
| GRANT | 20S | 011W | 18 KENNECOTT WARM SPRINGS(WELLS) | 0001633 | 34. |
| GRANT | 20S | 011W | 20 FAYWOOD HOT SPRINGS | 0001634 | 55. |
| HIDALGO | 22S | 021W | 03 WELL | 0001617 | 31. |
| HIDALGO | 25S | 019W | 07 LIGHTNING DOCK AREA - HOT WELLS | 0000669 | 99.0 |
| LINCOLN | 10S | 017E | 29 TROUT FARM | 0070815 | 18. |
| LUNA | 24S | 007W | 05 WELL (SOUTH OF CARNE) | 0001630 | 39. |
| MCKINLEY | 08N | 020W | 21 RAINBOW SPRING | 0001677 | 21. |
| MCKINLEY | 12S | 020W | 14T-510 | 0001675 | 23. |
| MCKINLEY | 13N | 017W | 13 STINKING SPRING | 0001673 | 23.2 |
| MCKINLEY | 15N | 016W | 30 WELL | 0001627 | 61. |
| MCKINLEY | 16N | 018W | 06 YA-TA-HEY WELL | 0001678 | 45.5 |
| MCKINLEY | 17N | 017W | ARTESIAN WELL | 0001676 | 23. |
| MCKINLEY | 17N | 018W | CHURCH ROCK SCHOOL WELL | 0001667 | 20. |
| MCKINLEY | 18N | 014W | STANDING ROCK SPRING | 0001672 | 21. |
| MCKINLEY | 19N | 017W | TOH SAH TOH | 0001674 | 37. |
| MCKINLEY | 19N | 017W | 22 PURE OIL NO. 3 | 0001625 | 35. |
| MCKINLEY | 19N | 017W | 29 PURE OIL NAVAJO NO 1 | 0001626 | 36. |
| OTERO | 25S | 008E | 32 UNNAMED WELL NORTH OF DAVIS DOME (1) | 0001467 | 61.1 |
| OTERO | 26S | 007E | 01 UNNAMED WELL WEST OF DAVIS DOME (1) | 0001466 | Q 50. |
| RIO ARRIBA | | | STATUE SPRING | 0001838 | 28. |
| SAN MIGUEL | 17N | 015E | 36 MONTEZUMA HOT SPRINGS | 0001629 | 55. |
| SANDOVAL | | | BUDDHIST SPRINGS | 0001753 | 50. |
| SANDOVAL | | | SODA DAM SPRING | 0001749 | 48. |
| SANDOVAL | | | JEMEZ WELL - 80 FT. AQUIFER | 0001756 | 68. |
| SANDOVAL | | | UNNAMED SPRING | 0001835 | 20. |
| SANDOVAL | | | JEMEZ SPRINGS (MAIN ORIFICE) | 0001755 | 35.5 |
| SANDOVAL | | | TRAVERTINE MOUND SPRING | 0001754 | 72. |
| SANDOVAL | | | JEMEZ WELL - 500 FT AQUIFER | 0001752 | 60.5 |
| SANDOVAL | | | UNNAMED WARM SPRING | 0001751 | 49. |
| SANDOVAL | | | JEMEZ SPRINGS (MAIN ORIFICE) | 0001750 | 55. |
| SANDOVAL | | | BUDDHIST SPRING | 0001748 | 49. |
| SANDOVAL | | | TRAVERTINE MOUND SPRING | 0001747 | 70. |
| SANDOVAL | | | SPRING AT JEMEZ SPRINGS | 0015253 | 75.0 |
| SANDOVAL | | | SPRING IN CALAVERAS CANYON | 0015251 | 41.0 |

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|----------|-------------|---|---------|------|
| SANDOVAL | | JEMEZ SPRINGS (OJOS CALIENTES) | 0000671 | 66.0 |
| SANDOVAL | | SAN YSIDRO - UNNAMED SPRING | 0015254 | 24.0 |
| SANDOVAL | 15N 001E 05 | PHILLIP'S SPRINGS | 0001652 | 21. |
| SANDOVAL | 15N 001E 10 | SAN YSIDRO - UNNAMED WARM SPRING | 0002960 | 15.0 |
| SANDOVAL | 15N 001E 16 | SAN YSIDRO - UNNAMED MINERAL SPRING | 0002958 | 11.0 |
| SANDOVAL | 15N 001E 16 | UNNAMED WARM SPRING SOUTH OF THE RIO SALADO RIV | 0001651 | 29. |
| SANDOVAL | 15N 026E 16 | UNNAMED WARM SPRING (SOUTH OF SAN YSIDRO PEAK) | 0002959 | 25.0 |
| SANDOVAL | 16N 001E 08 | KASEMAN NO.1 | 0001654 | 46. |
| SANDOVAL | 16N 001W 01 | KASEMAN NO. 2 (WARM SPRINGS) | 0001653 | 53. |
| SANDOVAL | 16N 001W 01 | WARM SPRINGS | 0015255 | 54.0 |
| SANDOVAL | 16N 002E 29 | INDIAN SPRINGS | 0001655 | 51. |
| SANDOVAL | 18N 002E | GROTTO SPRING | 0001745 | 38. |
| SANDOVAL | 18N 002E 14 | SODA DAM SPRING | 0001746 | 47. |
| SANDOVAL | 18N 002E 14 | SODA DAM SPRINGS | 0001656 | 47.8 |
| SANDOVAL | 18N 003E 04 | MCCAULEY SPRING | 0001743 | 31. |
| SANDOVAL | 19N 002E 13 | LASL GT-2-LOS ALAMOS SCIENTIFIC LAB | 0016635 | 197. |
| SANDOVAL | 19N 003E 03 | SULPHUR SPRINGS - LEMONADE SPRING | 0015250 | 65.0 |
| SANDOVAL | 19N 003E 04 | MCCAULEY SPRING | 0001657 | 32. |
| SANDOVAL | 19N 003E 12 | BACA 11 - UNION OIL CO. | 0016502 | |
| SANDOVAL | 19N 003E 12 | BACA 11 - UNION OIL CO. | 0016501 | |
| SANDOVAL | 19N 003E 12 | BACA 11 - UNION OIL CO. | 0016500 | |
| SANDOVAL | 19N 003E 12 | BACA 11 - UNION OIL CO. | 0016503 | |
| SANDOVAL | 19N 003E 28 | LITTLE SPENCE HOT SPRING | 0001742 | 34. |
| SANDOVAL | 19N 003E 28 | SPENCE HOT SPRING | 0001741 | 45. |
| SANDOVAL | 20N 003E 29 | SAN ANTONIO HOT SPRINGS | 0001658 | 40. |
| SANDOVAL | 20N 003E 29 | SAN ANTONIO HOT SPRINGS | 0001744 | 42. |
| SANDOVAL | 20N 004E 07 | SAN ANTONIO WARM SPRING | 0001659 | 37. |
| SIERRA | | UNNAMED SPRING | 0001806 | 35. |
| SIERRA | | WARM SPRINGS | 0001814 | 31. |
| SIERRA | 10S 001W 25 | VICTORIA LAND AND CATTLE CO. NO. 1 | 0001645 | 34. |
| SIERRA | 13S 004W 33 | TRUTH OR CONSEQUENCES | 0001644 | 42. |
| SIERRA | 14S 005W 25 | BARNEY IORIO NO. 1 | 0001643 | 33. |
| SIERRA | 17S 004W 29 | DERRY WARM SPRINGS | 0001642 | 33. |
| SIERRA | 18S 008E 05 | GARTON WELL | 0001628 | 34. |
| SOCORRO | | OJO CALIENTE | 0001813 | 28. |
| SOCORRO | | UNNAMED SPRING | 0001812 | 21. |
| SOCORRO | | UNNAMED SPRING | 0001819 | 21. |
| SOCORRO | | OJO DE LAS CANAS | 0001821 | 26. |
| SOCORRO | | OJITOS SPRINGS | 0001820 | 21. |
| SOCORRO | | UNNAMED SPRING | 0001833 | 22. |
| SOCORRO | 01N 002W 07 | GRAY AND LIGON RANCH - UNNAMED SPRING | 0070930 | 21. |
| SOCORRO | 01S 001W 14 | HIGGINS WELL | 0070900 | 21. |
| SOCORRO | 01S 001W 22 | ARMS. & ARMS. CONS WELL | 0070902 | 20. |
| SOCORRO | 01S 001W 22 | CAMPBELL WELL | 0070903 | 21. |
| SOCORRO | 01S 001W 23 | SEVEDRA WELL | 0070904 | 20. |
| SOCORRO | 01S 001W 34 | MARTIN WELL | 0070905 | 20. |
| SOCORRO | 01S 003W 33 | UNNAMED BADGER CATTLE CO. WELL (1) | 0070906 | 20. |
| SOCORRO | 02S 001W 11 | DUKE WELL | 0070907 | 21. |
| SOCORRO | 02S 001W 22 | MARTIN WELL (2) | 0070908 | 23. |
| SOCORRO | 02S 001W 25 | SLOAN WELL | 0070909 | 20. |
| SOCORRO | 02S 001W 36 | UNNAMED WELL-SW OF PUEBLITO PT. | 0070910 | 20. |
| SOCORRO | 02S 001W 36 | GALLEGOS WELL | 0070914 | 22. |
| SOCORRO | 02S 001W 36 | V. GONZALES WELL | 0070913 | 22. |
| SOCORRO | 02S 001W 36 | DELONG WELL | 0070912 | 20. |

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|----------|-----|------|----|------------------------------------|---------|------|
| SOCORRO | 02S | 001W | 36 | PURDUE WELL | 0070911 | 22. |
| SOCORRO | 02S | 001W | 36 | OTERO WELL | 0070916 | 20. |
| SOCORRO | 02S | 001W | 36 | BENAVIDEZ WELL | 0070915 | 20. |
| SOCORRO | 02S | 002W | 18 | GRAY WELL | 0070917 | 20. |
| SOCORRO | 02S | 003W | 01 | UNNAMED BADGER CATTLE CO. WELL (2) | 0070918 | 23. |
| SOCORRO | 02S | 003W | 07 | LA TOSSA WELL | 0070919 | 21. |
| SOCORRO | 02S | 003W | 11 | GRAY WELL (2) | 0070920 | 20. |
| SOCORRO | 02S | 003W | 11 | GRAY WELL (2) | 0070921 | 20. |
| SOCORRO | 02S | 003W | 27 | J. COURTNEY WELL | 0070922 | 23. |
| SOCORRO | 03S | 001W | 04 | SOCORRO - CORE HOLE | 0001646 | 42.7 |
| SOCORRO | 03S | 001W | 04 | UNNAMED WELL-EAST OF SOCORRO PEAK | 0070923 | 39. |
| SOCORRO | 03S | 001W | 10 | NMIMTRES. TASKW WELL | 0070924 | 21. |
| SOCORRO | 03S | 001W | 13 | CHAVEZ WELL | 0070927 | 20. |
| SOCORRO | 03S | 001W | 13 | GEORGE SICKLES WELL | 0070925 | 21. |
| SOCORRO | 03S | 001W | 16 | SOCORRO - BLUE CANYON WELL | 0001647 | 33. |
| SOCORRO | 03S | 001W | 22 | SOCORRO - SOCORRP GALLERY | 0001649 | 34. |
| SOCORRO | 03S | 001W | 22 | SEDILLA SPRING | 0070932 | 31. |
| SOCORRO | 03S | 001W | 22 | SEDILLA SPRING | 0070931 | 32. |
| SOCORRO | 03S | 001W | 22 | SEDILLA SPRING | 0070933 | 32. |
| SOCORRO | 03S | 001W | 22 | SOCORRO - SEDILLA GALLERY | 0001648 | 32. |
| SOCORRO | 03S | 001W | 24 | FAIR GROUNDS WELL | 0070926 | 21. |
| SOCORRO | 03S | 003W | 26 | CIBOLA NATIONAL FOREST WELL | 0070928 | 23. |
| SOCORRO | 04S | 001E | 16 | FRANK FERNANDEZ WELL | 0070929 | 20. |
| TAOS | | | | UNNAMED SPRING | 0001837 | 41. |
| TAOS | 24N | 008E | 24 | OJO CALIENTE (JOSEPH'S HOT SPRING) | 0001610 | 42.8 |
| TAOS | 24N | 013E | 07 | PONCE DE LEON HOT SPRINGS | 0001611 | 34. |
| TAOS | 24N | 013E | 07 | PONCE DE LEON HOT SPRINGS | 0001612 | 34.5 |
| TAOS | 26N | 011E | 12 | MAMBY (AMERICAN) HOT SPRINGS | 0001613 | 34. |
| TAOS | 27N | 012E | 36 | UNNAMED SPRING | 0001614 | 37. |
| VALENCIA | | | | ALAMOS SPRING | 0001836 | 22. |
| VALENCIA | | | | SPRING | 0001832 | 22. |
| VALENCIA | | | | UNNAMED SPRING | 0001828 | 20. |
| VALENCIA | | | | UNNAMED SPRING | 0001822 | 20. |
| VALENCIA | | | | SPRING(SALT) | 0001831 | 26. |
| VALENCIA | | | | EL OJO ESCONDIDO | 0001823 | 23. |
| VALENCIA | | | | LAGUNA PUEBLO SPRING | 0001825 | 27. |
| VALENCIA | | | | UNNAMED SPRING | 0001824 | 23. |
| VALENCIA | | | | UNNAMED SPRING | 0001830 | 27. |
| VALENCIA | | | | SPRING(SALT) | 0001829 | 30. |
| VALENCIA | | | | LAGUNA PUEBLO SEEPS | 0001827 | 28. |
| VALENCIA | | | | SPRING(SALT) | 0001826 | 24. |
| VALENCIA | 06N | 003E | 05 | UNNAMED WELL | 0001650 | 80. |
| VALENCIA | 07N | 019W | 15 | DENT WINDMILL | 0001668 | 23.4 |
| VALENCIA | 08N | 020W | 20 | SACRED SPRING | 0001669 | 21. |

APPENDIX C

Index to GEOTHERM sample file for the state of New Mexico 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 | | | | | |
| EL PASO 1:250,000 | | | | | |
| 31-51.6 | N 107-01.8 | W FEDERAL "H" NO. 1 WELL | DONA ANA | 0001636 | 45. |
| CARLSBAD 1:250,000 | | | | | |
| 32-50.63 | N 104-20.83 | W HANES IRRIGATION WELL | EDDY | 0070870 | 23.0 |
| 32-50.63 | N 104-20.83 | W HANES IRRIGATION WELL | EDDY | 0070869 | 22.7 |
| 32-50.63 | N 104-20.83 | W HANES IRRIGATION WELL | EDDY | 0070868 | 23.0 |
| 32-48.58 | N 104-44.10 | W HOPE MUNICIPAL WELL | EDDY | 0070862 | 20. |
| 32-48.75 | N 104-24.70 | W MENEFE IRRIGATION WELL | EDDY | 0070874 | 22. |
| 32-50.50 | N 104-21.03 | W SHARP WELL | EDDY | 0070871 | 23.6 |
| 32-50.50 | N 104-21.03 | W SHARP WELL | EDDY | 0070873 | 23.5 |
| 32-50.50 | N 104-21.03 | W SHARP WELL | EDDY | 0070872 | 23. |
| 32-50.60 | N 104-22.07 | W SULLIVAN WELL | EDDY | 0070867 | 23.6 |
| 32-50.60 | N 104-22.07 | W SULLIVAN WELL | EDDY | 0070866 | 23.2 |
| 32-50.60 | N 104-22.07 | W SULLIVAN WELL | EDDY | 0070865 | 23.8 |
| 32-53.62 | N 104-24.42 | W UNNAMED IRRIGATION WELL | EDDY | 0070861 | 23. |
| 32-54.07 | N 104-24.17 | W UNNAMED WELL | EDDY | 0070860 | 23. |
| 32-50.72 | N 104-22.42 | W UNNAMED WELL | EDDY | 0070863 | 21.2 |
| 32-50.72 | N 104-22.42 | W UNNAMED WELL | EDDY | 0070864 | 20. |
| 32-45.80 | N 104-22.58 | W UNNAMED WELL | EDDY | 0070875 | 22.2 |
| 32-44.82 | N 104-25.55 | W VANDIVER WELL | EDDY | 0070877 | 23.6 |
| 32-44.82 | N 104-24.27 | W VANDIVER WELL | EDDY | 0070876 | 20. |
| 32-44.65 | N 104-25.17 | W VANDIVER WELL | EDDY | 0070878 | 24. |
| LAS CRUCES 1:250,000 | | | | | |
| 32-16.8 | N 106-42.3 | W LOS ALTURAS ESTATES - EMMETT NATIONS WELL | DONA ANA | 0001641 | 45.1 |
| 32-30.08 | N 106-55.90 | W RADIUM HOT SPRINGS WELL | DONA ANA | 0000673 | 52.0 |
| 32-15.30 | N 106-58.58 | W UNNAMED WELL | DONA ANA | 0001640 | 32.2 |
| 32-04.85 | N 106-09.3 | W UNNAMED WELL NORTH OF DAVIS DOME (1) | OTERO | 0001467 | 61.1 |
| 32-04.55 | N 106-10.6 | W UNNAMED WELL WEST OF DAVIS DOME (1) | OTERO | 0001466 | Q 50. |
| 32-08.4 | N 106-52.2 | W WELL | DONA ANA | 0001638 | 31.1 |
| 32-47.72 | N 107-16.62 | W DERRY WARM SPRINGS | SIERRA | 0001642 | 33. |
| 32-33.2 | N 107-59.6 | W FAYWOOD HOT SPRINGS | GRANT | 0001634 | 55. |
| 32-46.2 | N 107-41.7 | W GARTON WELL | SIERRA | 0001628 | 34. |
| 32-44.9 | N 107-50.2 | W MINBRES HOT SPRINGS | GRANT | 0001635 | 62. |
| 32-57.18 | N 107-34.80 | W UNNAMED SPRING | SIERRA | 0001806 | 35. |

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|---|----------|---------|------|
| 32-16.8 N 107-01.2 W UNNAMED WELL | DONA ANA | 0001639 | 36. |
| 32-04.8 N 107-36.6 W UNNAMED WELL | DONA ANA | 0001637 | 35.6 |
| 32-15.20 N 107-34.83 W WELL (SOUTH OF CARNE) | LUNA | 0001630 | 39. |
| SILVER CITY 1:250,000 | | | |
| 32-53.04 N 108-21.48 W ALLEN SPRINGS | GRANT | 0001807 | 25.6 |
| 32-38.6 N 108-07.7 W APACHE TEJO WARM SPRINGS - WELL 4 | GRANT | 0001632 | 36. |
| 32-49.26 N 108-24.48 W ASH SPRING | GRANT | 0001809 | 22. |
| 32-58.45 N 108-37.75 W CLIFF WARM SPRING | GRANT | 0001620 | 25. |
| 32-33.7 N 108-01.6 W KENECOTT WARM SPRINGS(WELLS) | GRANT | 0001633 | 34. |
| 32-08.70 N 108-50.00 W LIGHTNING DOCK AREA - HOT WELLS | HIDALGO | 0000669 | 99.0 |
| 32-50.58 N 108-30.67 W MANGAS SPRINGS | GRANT | 0001808 | 27. |
| 32-55.8 N 108-36.0 W RIVERSIDE STORE WELL | GRANT | 0001619 | 30. |
| 32-56.4 N 108-40.8 W SPRING CANYON WARM SPRING | GRANT | 0001618 | 29. |
| 32-25.8 N 108-58.8 W WELL | HIDALGO | 0001617 | 31. |
| 32-58.8 N 108-35.4 W WELL | GRANT | 0001621 | 35. |
| 32-40.8 N 108-02.4 W WELL | GRANT | 0001631 | 62. |
| 32-49.80 N 109-02.82 W GOAT CAMP SPRING | GRANT | 0001811 | 21. |
| 32-53.94 N 109-02.10 W UNNAMED SPRING | GRANT | 0001810 | 21. |
| ROSWELL 1:250,000 | | | |
| 33-18.93 N 104-28.17 W ALLISON WELL | CHAVES | 0070837 | 20.5 |
| 33-18.93 N 104-28.17 W ALLISON WELL | CHAVES | 0070836 | 20.7 |
| 33-18.42 N 104-27.78 W ALLYSON WELL | CHAVES | 0070835 | 20.9 |
| 33-18.42 N 104-27.78 W ALLYSON WELL | CHAVES | 0070834 | 20.2 |
| 33-18.42 N 104-27.78 W ALLYSON WELL | CHAVES | 0070833 | 20.5 |
| 33-19.13 N 104-27.80 W ALLYSON WELL | CHAVES | 0070832 | 20.2 |
| 33-19.13 N 104-27.80 W ALLYSON WELL | CHAVES | 0070831 | 20. |
| 33-21.07 N 104-23.55 W CLARDY EAST WELL | CHAVES | 0070842 | 20.7 |
| 33-21.07 N 104-23.55 W CLARDY EAST WELL | CHAVES | 0070841 | 20.6 |
| 33-20.92 N 104-22.73 W CLARDY WELL | CHAVES | 0070846 | 21. |
| 33-20.92 N 104-22.73 W CLARDY WELL | CHAVES | 0070845 | 20.6 |
| 33-26.33 N 104-30.22 W COGDILL - DOMESTIC WELL | CHAVES | 0070817 | 20. |
| 33-26.33 N 104-30.22 W COGDILL - DOMESTIC WELL | CHAVES | 0070816 | 20. |
| 33-37.52 N 104-40.17 W CORN RANCH - SECTION 13 WINDMILL | CHAVES | 0070806 | 21. |
| 33-37.58 N 104-37.62 W CORN RANCH - SECTION 16 WINDMILL | CHAVES | 0070809 | 24. |
| 33-37.58 N 104-37.62 W CORN RANCH - SECTION 16 WINDMILL | CHAVES | 0070808 | 24. |
| 33-37.58 N 104-37.62 W CORN RANCH - SECTION 16 WINDMILL | CHAVES | 0070814 | 21. |
| 33-37.58 N 104-37.62 W CORN RANCH - SECTION 16 WINDMILL | CHAVES | 0070813 | 25. |
| 33-37.58 N 104-37.62 W CORN RANCH - SECTION 16 WINDMILL | CHAVES | 0070811 | 21.5 |
| 33-37.58 N 104-37.62 W CORN RANCH - SECTION 16 WINDMILL | CHAVES | 0070810 | 24. |
| 33-37.58 N 104-37.62 W CORN RANCH - SECTION 16 WINDMILL | CHAVES | 0070812 | 21.5 |
| 33-36.72 N 104-42.12 W CORN RANCH - SECTION 22 WINDMILL | CHAVES | 0070807 | 24. |
| 33-39.85 N 104-39.92 W CORN RANCH - SECTION 36 WINDMILL | CHAVES | 0070805 | 23.4 |
| 33-39.85 N 104-39.92 W CORN RANCH - SECTION 36 WINDMILL | CHAVES | 0070804 | 22. |
| 33-39.85 N 104-39.92 W CORN RANCH - SECTION 36 WINDMILL | CHAVES | 0070803 | 20. |
| 33-39.85 N 104-39.92 W CORN RANCH - SECTION 36 WINDMILL | CHAVES | 0070802 | 22. |
| 33-22.90 N 104-33.70 W HENDRICK WELL | CHAVES | 0070825 | 20.6 |
| 33-21.98 N 104-34.58 W JENNINGS WELL | CHAVES | 0070826 | 20. |
| 33-21.98 N 104-34.58 W JENNINGS WELL | CHAVES | 0070827 | 20.4 |
| 33-02.95 N 104-20.73 W JOHNSON IRRIGATION WELL | CHAVES | 0070857 | 26. |
| 33-21.05 N 104-23.82 W OASIS WELL | CHAVES | 0070838 | 20.5 |

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| 33-21.05 N 104-23.82 W OASIS WELL | CHAVES | 0070840 | 20.5 |
| 33-21.05 N 104-23.82 W OASIS WELL | CHAVES | 0070839 | 20. |
| 33-17.63 N 104-38.53 W PATTERSON WELL | CHAVES | 0070850 | 20. |
| 33-17.87 N 104-39.33 W PATTERSON WELL | CHAVES | 0070852 | 20.4 |
| 33-18.18 N 104-39.20 W PATTERSON WELL (LITTLE CAT) | CHAVES | 0070851 | 20.7 |
| 33-01.35 N 104-17.72 W POLLARD WELL | CHAVES | 0070859 | 23.8 |
| 33-01.35 N 104-17.72 W POLLARD WELL | CHAVES | 0070858 | 24.2 |
| 33-11.80 N 104-54.37 W PVACD OBSERVATION WELL NO. 4 | CHAVES | 0070853 | 20.5 |
| 33-21.78 N 104-35.78 W SMITH WELL | CHAVES | 0070828 | 20.5 |
| 33-21.78 N 104-35.78 W SMITH WELL | CHAVES | 0070829 | 22. |
| 33-20.13 N 104-28.32 W SOUTH SPRING - LINCOLN WELL | CHAVES | 0070830 | 20. |
| 33-25.72 N 104-23.42 W STENGROF (ELK WELL) | CHAVES | 0070819 | 19.5 |
| 33-41.02 N 104-41.93 W T. CORN RANCH HOUSE WINDMILL | CHAVES | 0070801 | 22. |
| 33-26.12 N 104-30.12 W UNNAMED WELL | CHAVES | 0070818 | 20. |
| 33-20.20 N 104-24.88 W UNNAMED WELL | EDDY | 0070844 | 21. |
| 33-20.20 N 104-24.88 W UNNAMED WELL | CHAVES | 0070843 | 20. |
| 33-07.02 N 104-27.82 W UNNAMED WINDMILL | CHAVES | 0070855 | 20.6 |
| 33-10.47 N 104-29.95 W VILLA SOLANO SCHOOL WELL | CHAVES | 0070854 | 22.2 |
| 33-19.33 N 104-25.03 W WHEELER WELL | CHAVES | 0070849 | 20. |
| 33-19.28 N 104-24.85 W WHEELER WELL | CHAVES | 0070847 | 20. |
| 33-21.67 N 104-56.35 W WINDMILL | CHAVES | 0070822 | 20. |
| 33-21.67 N 104-56.35 W WINDMILL | CHAVES | 0070821 | 22.7 |
| 33-21.67 N 104-56.35 W WINDMILL | CHAVES | 0070820 | 20.5 |
| 33-21.80 N 104-45.78 W WOOD'S RANCH WINDMILL | CHAVES | 0070823 | 21. |
| 33-22.30 N 104-43.95 W WOODS RANCH WINDMILL | CHAVES | 0070824 | 20. |
| TULAROSA 1:250,000 | | | |
| 33-57.65 N 106-50.67 W FRANK FERNANDEZ WELL | SOCORRO | 0070929 | 20. |
| 33-48.78 N 106-58.26 W UNNAMED SPRING | SOCORRO | 0001812 | 21. |
| 33-24.0 N 106-54.0 W VICTORIA LAND AND CATTLE CO. NO. 1 | SIERRA | 0001645 | 34. |
| 33-03.6 N 107-18.0 W BARNEY IORIO NO. 1 | SIERRA | 0001643 | 33. |
| 33-34.32 N 107-35.58 W OJO CALIENTE | SOCORRO | 0001813 | 28. |
| 33-08.1 N 107-15.2 W TRUTH OR CONSEQUENCES | SIERRA | 0001644 | 42. |
| 33-16.74 N 107-33.78 W WARM SPRINGS | SIERRA | 0001814 | 31. |
| CLIFTON 1:250,000 | | | |
| 33-53.88 N 108-30.06 W ARAGON SPRINGS | CATRON | 0001815 | 21. |
| 33-11.5 N 108-11. W EAST FORK GILA RIVER - UNNAMED HOT SPRING | GRANT | 0002957 Q | 36. |
| 33-11.94 N 108-12.54 W GILA HOT SPRINGS | GRANT | 0000677 | 68.0 |
| 33-11.9 N 108-12.5 W GILA HOT SPRINGS | GRANT | 0001661 | 64. |
| 33-14.00 N 108-14.08 W GILA NATIONAL FOREST - UNNAMED HOT SPRING | CATRON | 0002952 | 66.0 |
| 33-10. N 108-11. W GILA RIVER - UNNAMED HOT SPRING | GRANT | 0002956 | 43.0 |
| 33-14.08 N 108-14.00 W HOT SPRING | GRANT | 0001816 | 64.8 |
| 33-11.5 N 108-10.8 W LYONS LODGE HOT SPRINGS | GRANT | 0001660 | 52. |
| 33-13.8 N 108-14.4 W MIDDLE FORK GILA RIVER - TEST WELL 1 | CATRON | 0001662 | 32.2 |
| 33-17.1 N 108-15.6 W MIDDLE FORK GILA RIVER - UNNAMED SEEP | CATRON | 0001666 | 27.2 |
| 33-15.5 N 108-13.4 W MIDDLE FORK GILA RIVER - UNNAMED SPRING | CATRON | 0001663 | 21.9 |
| 33-15.5 N 108-13.4 W MIDDLE FORK GILA RIVER - UNNAMED SPRING | CATRON | 0001664 | 34.4 |
| 33-14.68 N 108-52.87 W SAN FRANCISCO HOT SPRINGS (LOWER FRISCO HOT SPR) | CATRON | 0000675 | 37.0 |
| 33-18.4 N 108-19.4 W THE MEADOWS (WARM SPRING) | CATRON | 0001665 | 30. |
| 33-06.48 N 108-28.98 W TURKEY CREEK - UNNAMED HOT SPRING | GRANT | 0001817 | 74.6 |
| 33-11.5 N 108-10.7 W UNNAMED | GRANT | 0001624 | 41. |

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|-------------------|-------------|---|------------|---------|------|
| 33-09.7 | N 108-12.5 | W UNNAMED | GRANT | 0001622 | 44.7 |
| 33-11.5 | N 108-10.7 | W UNNAMED | GRANT | 0001623 | 41. |
| 33-49.9 | N 108-48.0 | W UPPER FRISCO HOT SPRINGS | CATRON | 0001616 | 36.7 |
| 33-42.5 | N 109-01.5 | W FREIBORN CANYON SPRING | CATRON | 0001615 | 33.3 |
| SOCORRO 1:250,000 | | | | | |
| 34-12.6 | N 106-55.38 | W ARMS. & ARMS. CONS WELL | SOCORRO | 0070902 | 20. |
| 34-05.30 | N 106-53.35 | W BENAVIDEZ WELL | SOCORRO | 0070915 | 20. |
| 34-11.62 | N 106-55.82 | W CAMPBELL WELL | SOCORRO | 0070903 | 21. |
| 34-02.94 | N 106-53.68 | W CHAVEZ WELL | SOCORRO | 0070927 | 20. |
| 34-59.70 | N 106-27.24 | W CLEAR WATER SPRING | BERNALILLO | 0001818 | 21. |
| 34-05.40 | N 106-54.05 | W DELONG WELL | SOCORRO | 0070912 | 20. |
| 34-09.35 | N 106-55.08 | W DUKE WELL | SOCORRO | 0070907 | 21. |
| 34-01.95 | N 106-54.18 | W FAIR GROUNDS WELL | SOCORRO | 0070926 | 21. |
| 34-05.39 | N 106-54.06 | W GALLEGOS WELL | SOCORRO | 0070914 | 22. |
| 34-03.00 | N 106-53.95 | W GEORGE SICKLES WELL | SOCORRO | 0070925 | 21. |
| 34-13.0 | N 106-55.0 | W HIGGINS WELL | SOCORRO | 0070900 | 21. |
| 34-10.67 | N 106-55.65 | W MARTIN WELL | SOCORRO | 0070905 | 20. |
| 34-07.3 | N 106-56.0 | W MARTIN WELL (2) | SOCORRO | 0070908 | 23. |
| 34-03.95 | N 106-55.42 | W NMIMITRES. TASKW WELL | SOCORRO | 0070924 | 21. |
| 34-06.96 | N 106-58.80 | W OJITOS SPRINGS | SOCORRO | 0001820 | 21. |
| 34-01.92 | N 106-46.62 | W OJO DE LAS CANAS | SOCORRO | 0001821 | 26. |
| 34-05.9 | N 106-53.9 | W OTERO WELL | SOCORRO | 0070916 | 20. |
| 34-05.9 | N 106-53.9 | W PURDUE WELL | SOCORRO | 0070911 | 22. |
| 34-02.27 | N 106-56.30 | W SEDILLA SPRING | SOCORRO | 0070932 | 31. |
| 34-02.27 | N 106-56.30 | W SEDILLA SPRING | SOCORRO | 0070931 | 32. |
| 34-02.27 | N 106-56.30 | W SEDILLA SPRING | SOCORRO | 0070933 | 32. |
| 34-12.5 | N 106-54.9 | W SEVEDRA WELL | SOCORRO | 0070904 | 20. |
| 34-06.8 | N 106-53.8 | W SLOAN WELL | SOCORRO | 0070909 | 20. |
| 34-02.8 | N 106-57.1 | W SOCORRO - BLUE CANYON WELL | SOCORRO | 0001647 | 33. |
| 34-04.8 | N 106-57.0 | W SOCORRO - CORE HOLE | SOCORRO | 0001646 | 42.7 |
| 34-02.27 | N 106-56.33 | W SOCORRO - SEDILLA GALLERY | SOCORRO | 0001648 | 32. |
| 34-02.27 | N 106-56.33 | W SOCORRO - SOCORRP GALLERY | SOCORRO | 0001649 | 34. |
| 34-15.84 | N 106-52.98 | W UNNAMED SPRING | SOCORRO | 0001819 | 21. |
| 34-43.8 | N 106-43.2 | W UNNAMED WELL | VALENCIA | 0001650 | 80. |
| 34-04.3 | N 106-56.8 | W UNNAMED WELL-EAST OF SOCORRO PEAK | SOCORRO | 0070923 | 39. |
| 34-05.9 | N 106-54.1 | W UNNAMED WELL-SW OF PUEBLITO PT. | SOCORRO | 0070910 | 20. |
| 34-05.9 | N 106-54.0 | W V. GONZALES WELL | SOCORRO | 0070913 | 22. |
| 34-01.5 | N 107-07.82 | W CIBOLA NATIONAL FOREST WELL | SOCORRO | 0070928 | 23. |
| 34-54.18 | N 107-05.10 | W EL OJO ESCONDIDO | VALENCIA | 0001823 | 23. |
| 34-19.5 | N 107-05.7 | W GRAY AND LIGON RANCH - UNNAMED SPRING | SOCORRO | 0070930 | 21. |
| 34-08.5 | N 107-05.5 | W GRAY WELL | SOCORRO | 0070917 | 20. |
| 34-08.63 | N 107-07.83 | W GRAY WELL (2) | SOCORRO | 0070920 | 20. |
| 34-08.63 | N 107-07.83 | W GRAY WELL (2) | SOCORRO | 0070921 | 20. |
| 34-06.40 | N 107-08.17 | W J. COURTNEY WELL | SOCORRO | 0070922 | 23. |
| 34-08.7 | N 107-05.2 | W LA TOSSA WELL | SOCORRO | 0070919 | 21. |
| 34-49.98 | N 107-05.45 | W LAGUNA PUEBLO SEEPS | VALENCIA | 0001827 | 28. |
| 34-51.24 | N 107-05.28 | W LAGUNA PUEBLO SPRING | VALENCIA | 0001825 | 27. |
| 34-41.88 | N 107-07.74 | W SPRING | VALENCIA | 0001832 | 22. |
| 34-50.82 | N 107-05.46 | W SPRING(SALT) | VALENCIA | 0001826 | 24. |
| 34-48.48 | N 107-05.46 | W SPRING(SALT) | VALENCIA | 0001829 | 30. |
| 34-46.14 | N 107-05.10 | W SPRING(SALT) | VALENCIA | 0001831 | 26. |
| 34-10.4 | N 107-09.32 | W UNNAMED BADGER CATTLE CO. WELL (1) | SOCORRO | 0070906 | 20. |

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| 34-09.08 N 107-05.25 W UNNAMED BADGER CATTLE CO. WELL (2) | SOCORRO | 00070918 | 23. |
| 34-19.56 N 107-05.70 W UNNAMED SPRING | SOCORRO | 0001833 | 22. |
| 34-48.90 N 107-23.28 W UNNAMED SPRING | VALENCIA | 0001828 | 20. |
| 34-54.96 N 107-08.58 W UNNAMED SPRING | VALENCIA | 0001822 | 20. |
| 34-47.46 N 107-05.46 W UNNAMED SPRING | VALENCIA | 0001830 | 27. |
| 34-52.98 N 107-05.52 W UNNAMED SPRING | VALENCIA | 0001824 | 23. |
| SAINT JOHNS 1:250,000 | | | |
| 34-50.30 N 108-50.02 W DENT WINDMILL | VALENCIA | 0001668 | 23.4 |
| 34-28.37 N 108-42.44 W JERRY WELL | CATRON | 0001671 | 24. |
| 34-32.40 N 108-46.63 W PUEBLO WINDMILL | CATRON | 0001670 | 33.8 |
| 34-54.63 N 108-57.03 W RAINBOW SPRING | MCKINLEY | 0001677 | 21. |
| 34-54.50 N 108-57.53 W SACRED SPRING | VALENCIA | 0001669 | 21. |
| 34-09.48 N 108-19.14 W UNNAMED | CATRON | 0001834 | 22. |
| SANTA FE 1:250,000 | | | |
| 35-39.2 N 105-17.4 W MONTEZUMA HOT SPRINGS | SAN MIGUEL | 0001629 | 55. |
| ALBUQUERQUE 1:250,000 | | | |
| 35-53. N 106-34. W BACA 11 - UNION OIL CO. | SANDOVAL | 0016503 | |
| 35-53. N 106-34. W BACA 11 - UNION OIL CO. | SANDOVAL | 0016502 | |
| 35-53. N 106-34. W BACA 11 - UNION OIL CO. | SANDOVAL | 0016501 | |
| 35-53. N 106-34. W BACA 11 - UNION OIL CO. | SANDOVAL | 0016500 | |
| 35-46.5 N 106-41. W BUDDHIST SPRING | SANDOVAL | 0001748 | 49. |
| 35-46.5 N 106-41. W BUDDHIST SPRINGS | SANDOVAL | 0001753 | 50. |
| 35-47.5 N 106-41. W GROTTO SPRING | SANDOVAL | 0001745 | 38. |
| 35-35.5 N 106-45.2 W INDIAN SPRINGS | SANDOVAL | 0001655 | 51. |
| 35-46.5 N 106-41. W JEMEZ SPRINGS (MAIN ORIFICE) | SANDOVAL | 0001750 | 55. |
| 35-46.5 N 106-41. W JEMEZ SPRINGS (MAIN ORIFICE) | SANDOVAL | 0001755 | 35.5 |
| 35-47. N 106-41. W JEMEZ SPRINGS (OJOS CALIENTES) | SANDOVAL | 0000671 | 66.0 |
| 35-46.5 N 106-41. W JEMEZ WELL - 500 FT AQUIFER | SANDOVAL | 0001752 | 60.5 |
| 35-38.8 N 106-53.3 W KASEMAN NO. 2 (WARM SPRINGS) | SANDOVAL | 0001653 | 53. |
| 35-38.1 N 106-51.6 W KASEMAN NO.1 | SANDOVAL | 0001654 | 46. |
| 35-53.0 N 106-40.4 W LASL GT-2-LOS ALAMOS SCIENTIFIC LAB | SANDOVAL | 0016635 | 197. |
| 35-50.90 N 106-37.80 W LITTLE SPENCE HOT SPRING | SANDOVAL | 0001742 | 34. |
| 35-49.20 N 106-37.61 W MCCAULEY SPRING | SANDOVAL | 0001657 | 32. |
| 35-49.20 N 106-37.61 W MCCAULEY SPRING | SANDOVAL | 0001743 | 31. |
| 35-36.13 N 106-51.55 W PHILLIP'S SPRINGS | SANDOVAL | 0001652 | 21. |
| 35-56.28 N 106-38.72 W SAN ANTONIO HOT SPRINGS | SANDOVAL | 0001658 | 40. |
| 35-56.33 N 106-38.60 W SAN ANTONIO HOT SPRINGS | SANDOVAL | 0001744 | 42. |
| 35-58.28 N 106-33.62 W SAN ANTONIO WARM SPRING | SANDOVAL | 0001659 | 37. |
| 35-31.7 N 106-50.8 W SAN YSIDRO - UNNAMED MINERAL SPRING | SANDOVAL | 0002958 | 11.0 |
| 35-32.88 N 106-49.62 W SAN YSIDRO - UNNAMED SPRING | SANDOVAL | 0015254 | 24.0 |
| 35-32.6 N 106-49.8 W SAN YSIDRO - UNNAMED WARM SPRING | SANDOVAL | 0002960 | 15.0 |
| 35-47.6 N 106-41.1 W SODA DAM SPRING | SANDOVAL | 0001746 | 47. |
| 35-47.5 N 106-41. W SODA DAM SPRING | SANDOVAL | 0001749 | 48. |
| 35-47.49 N 106-41.18 W SODA DAM SPRINGS | SANDOVAL | 0001656 | 47.8 |
| 35-50.33 N 106-37.40 W SPENCE HOT SPRING | SANDOVAL | 0001741 | 45. |
| 35-46.32 N 106-41.40 W SPRING AT JEMEZ SPRINGS | SANDOVAL | 0015253 | 75.0 |
| 35-54.42 N 106-36.92 W SULPHUR SPRINGS - LEMONADE SPRING | SANDOVAL | 0015250 | 65.0 |
| 35-46.5 N 106-41. W TRAVERLINE MOUND SPRING | SANDOVAL | 0001747 | 70. |

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| 35-46.5 | N 106-41. | W TRAVERINE MOUND SPRING | SANDOVAL | 0001754 | 72. |
| 35-18.48 | N 106-28.26 | W UNNAMED SPRING | SANDOVAL | 0001835 | 20. |
| 35-46.5 | N 106-41. | W UNNAMED WARM SPRING | SANDOVAL | 0001751 | 49. |
| 35-32.2 | N 106-50.7 | W UNNAMED WARM SPRING (SOUTH OF SAN YSIDRO PEAK) | SANDOVAL | 0002959 | 25.0 |
| 35-32.1 | N 106-50.8 | W UNNAMED WARM SPRING SOUTH OF THE RIO SALADO RIV | SANDOVAL | 0001651 | 29. |
| 35-38.76 | N 106-51.28 | W WARM SPRINGS | SANDOVAL | 0001525 | 54.0 |
| 35-03.60 | N 107-07.98 | W ALANOS SPRING | VALENCIA | 0001836 | 22. |
| GALLUP 1:250,000 | | | | | |
| 35-43.13 | N 108-41.4 | W ARTESIAN WELL | MCKINLEY | 0001676 | 23. |
| 35-33.0 | N 108-36.6 | W CHURCH ROCK SCHOOL WELL | MCKINLEY | 0001667 | 20. |
| 35-51.08 | N 108-40.10 | W PURE OIL NAVAJO NO 1 | MCKINLEY | 0001626 | 36. |
| 35-51.2 | N 108-37.8 | W PURE OIL NO. 3 | MCKINLEY | 0001625 | 35. |
| 35-48.6 | N 108-22.2 | W STANDING ROCK SPRING | MCKINLEY | 0001672 | 21. |
| 35-21.30 | N 108-35.55 | W STINKING SPRING | MCKINLEY | 0001673 | 23.2 |
| 35-52.2 | N 108-40.8 | W TOH SAH TOH | MCKINLEY | 0001674 | 37. |
| 35-29.4 | N 108-33.3 | W WELL | MCKINLEY | 0001627 | 61. |
| 35-38.4 | N 108-46.8 | W YA-TA-HEY WELL | MCKINLEY | 0001678 | 45.5 |
| 35-42.0 | N 108-42.0 | W 14T-510 | MCKINLEY | 0001675 | 23. |
| RAION 1:250,000 | | | | | |
| 36-30.99 | N 105-43.42 | W MAMBY (AMERICAN) HOT SPRINGS | TAOS | 0001613 | 34. |
| 36-19.42 | N 105-36.36 | W PONCE DE LEON HOT SPRINGS | TAOS | 0001612 | 34.5 |
| 36-19.42 | N 105-36.36 | W PONCE DE LEON HOT SPRINGS | TAOS | 0001611 | 34. |
| 36-31.7 | N 105-42.8 | W UNNAMED SPRING | TAOS | 0001614 | 37. |
| 36-31.68 | N 105-42.78 | W UNNAMED SPRING | TAOS | 0001837 | 41. |
| AZTEC 1:250,000 | | | | | |
| 36-18.3 | N 106-03.2 | W OJO CALIENTE (JOSEPH'S HOT SPRING) | TAOS | 0001610 | 42.8 |
| 36-22.08 | N 106-03.54 | W STATUE SPRING | RIO ARRIBA | 0001838 | 28. |

APPENDIX D

Sources for the records in the GEOTHERM sample file for New Mexico. Each reference is preceded by its abbreviated form (called CODE) used in the sample file (Table 1). Entries in this computer-generated appendix are sorted by CODE.

CODE = BERRY AND OTHERS, 1980

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CODE = GOFF AND OTHERS, 1981

GOFF, F. E., GRIGSBY, C. O., TRJILLO, P. E., JR., COUNCE, D., AND KRON, A., 1981, GEOLOGY, WATER GEOCHEMISTRY AND GEOTHERMAL POTENTIAL OF THE JEMEZ SPRINGS AREA, CANON DE SAN DIEGO, NEW MEXICO: JOURNAL OF VOLCANOLOGY AND GEOTHERMAL RESEARCH, V. 10, NO. 1-3, P. 227-244.

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AQUIFER: NEW MEXICO WATER RESOURCES RESEARCH INSTITUTE REPORT
NO. 084, 253 P.

CODE = LEVITTE AND GAMBILL, 1980

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CENTRAL NEW MEXICO FROM GEOCHEMICAL AND THERMAL GRADIENT DATA:
LOS ALAMOS SCIENTIFIC LABORATORY LA-8608-MS, 102 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 = RENICK, 1931

RENICK, B. C., 1931, GEOLOGY AND GROUND-WATER RESOURCES OF WESTERN
SANDOVAL COUNTY, NEW MEXICO: U. S. GEOLOGICAL SURVEY WATER
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CODE = SCOTT AND BARKER, 1962

SCOTT, R. C., AND BARKER, F. B., 1962, DATA ON URANIUM AND RADIUM IN
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OGICAL SURVEY PROFESSIONAL PAPER 426, 115 P.

CODE = SUMMERS, 1965

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CODE = TRAUGER, 1972

TRAUGER, F. D., 1972, WATER RESOURCES AND GENERAL GEOLOGY OF GRANT COUNTY, NEW MEXICO: NEW MEXICO BUREAU OF MINES AND MINERAL RESOURCES HYDROLOGIC REPORT 2, 212 P.

CODE = WHITE AND OTHERS, 1963

WHITE, D. E., HEM, J. D., AND WARING, G. A., 1963, DATA OF GEOCHEMISTRY, CHAPTER F., CHEMICAL COMPOSITION OF SUBSURFACE WATERS: U.S. GEOLOGICAL SURVEY PROFESSIONAL PAPER 440-F, 67 P.