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UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

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NEW MEXICO

Basic data for thermal springs and wells
as recorded in GEOTHERM

By

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Open-File Report 83-434

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has not been reviewed for conformity
with U.S. Geological Survey
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Menlo Park, California

July 1983

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INTRODUCTION

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

This report on 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 ($^{\circ}\text{C}$). 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 ($^{\circ}\text{C}$). 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.

GEOTHERM 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

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0001818

NAME OF SAMPLE SOURCE... CLEAR WATER SPRING

LOCATION TOWNSHIP=RANGE

COORDINATES

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

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... BERNALILLO

GEOLOGIC PROVINCE... 26

MAP REFERENCE..... MOUNT WASHINGTON 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 21.

REFERENCE AND IDENTIFICATION

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

REFERENCE..... HERRY AND OTHERS, 1980

RECORD 00002

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0001815

NAME OF SAMPLE SOURCE... ARAGON SPRINGS

LOCATION TOWNSHIP=RANGE

COORDINATES

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

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

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0001615

NAME OF SAMPLE SOURCE... FREIBORN CANYON SPRING

WELL/SPRING NUMBER..... 07S-21W-08-442

LOCATION TOWNSHIP=RANGE

COORDINATES

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

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 "DATIL FORMATION".

WATER ANALYSIS

pH..... 8.96

SPECIFIC CONDUCTANCE..... 150.

TOTAL DISSOLVED SOLIDS... 151.

ANALYSIS FOR

150102ES_102001

AG....		CO3....	13.	LI....	N		
AL....	0.2	CR....		MG....	0.17		
AS....	0.004	CS....		MN....	0.053		
AU....		CU....		MO....		SE....	N
B....	0.072	F....	1.3	NA....	39.	SI02.	31.
BE....		FE(101)...	0.025				
BR....	11						
CA....	7.	HCO3....	37.	PO4..	0.006		
CD....		H2S....					
CL....	7.4	I....	N				
CO....		K....	6.2				

OTHER ANALYTICAL DATA... NO2 = 0.072 PPM.

REFERENCE AND IDENTIFICATION

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

COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... SUMMERS, 1976

RECORD 00004

GEOCHEMICAL SAMPLE FILE

GEOTHERM FILE 101 0002952

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

WELL/SPRING NUMBER..... 12S-14W-24-441

LOCATION

~~10N-20E-RANGE~~~~COCHISE RIVER~~

COUNTRY..... UNITED STATES 12S 014W 24 NW OF SE OF SE

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

STATE..... NEW MEXICO

BANK: NEW MEXICO PRINCIPAL

UTM ZONE... +12

COUNTY..... CATRON

NORTHING... 3680376.

GEOLOGIC PROVINCE... 25

757814.

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

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

OTHER SAMPLE INFORMATION.. SPORADIC GAS.

WATER ANALYSIS

PH..... 7.78

ALKALINITY..... 135. AS HCO3

TOTAL DISSOLVED SOLIDS... 587.

CHARGE BALANCE (A DIFF)... 0.0

ANALYSIS IN MOVL

AG....		CO3....		LI....	0.36	S....	
AL....	0.004	CR....		MG....	0.1	S8...	
AS....		CS....	L 0.1	MN....	L 0.02		
AU....		CU....	L 0.01				
B....	0.11	F....	9.5	NA....	150.	SI02.	85.
BE....		FE(101)...	L 0.02	NB....		S04..	79.
BR....		GE....		NI....	L 0.02		
CA....	19.	HCO3....	135.				
CD....	100.						
CO....		K....	3.1	RB....	0.03	ZN...	L 0.01

ISOTOPIES 107001

DEL D OF WATER..... -83.6

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

REFERENCE AND IDENTIFICATION

COMPILED BY..... TESHER, VICTOR

COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY

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

RECORD 00005

GEOCHEMICAL WELL FILE

GEOTHERM FILE ID: 0001671

NAME OF SAMPLE SOURCE... JERRY WELL
LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 103N 018W 22 NE OF SW NE
STATE..... NEW MEXICO 06M: NEW MEXICO PRINCIPAL

LAT/LONG... 34-28.37 N 108-42.44 W

COUNTY..... CATRON

GEOLOGIC PROVINCE... 24

MSP REFERENCE..... LAKE ARRIJO 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1979/07

TEMPERATURE (C)..... 24.

DISCHARGE..... 21. L/MIN

WATER ANALYSIS

P..... 8.5

CHARGE BALANCE (X DIFF)... 7.9

ANALYSIS TO 1000

ISOTOPES (02001)

SI.....	CR.....	MG...	0.1		
AS.....	CS.....	MN...	0.002		
U..... 0.97	F..... 1.6	NA...	190.	SI02.	12.
BA..... 0					
FE.....	FE (TOT)...	NB...		S04..	51.
CA..... 1.2	HCO3..... 451.				
CL..... 13.					
CO.....	K..... 0.9				

REFERENCE AND IDENTIFICATION

COMPILED BY..... BRORR, C.A.

COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... LEVITTE AND GAMBILL, 1980

RECORD 00006

GEOCHEMICAL WELL FILE

GEOTHERM FILE ID: 0001662

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

WELL/SPRING NUMBER..... 12S-13W-30-231

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 12S 013W 30 NW OF SW OF NE

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

STATE..... NEW MEXICO 06M: NEW MEXICO PRINCIPAL

COUNTY..... CATRON

GEOLOGIC PROVINCE... 25

MSP REFERENCE..... GILA HOT SPRINGS 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1966/07/31

TEMPERATURE (C)..... 32.2

WELL DEPTH (M)..... 132.9

DISCHARGE.....

POTENTIAL LITHOLOGY..... QUATERNARY BASALT.

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

COMPLETION FOR HOLE WAS ABANDONED.

WATER ANALYSIS

P..... 9.7

SPECIFIC CONDUCTANCE..... 2710.

TOTAL DISSOLVED SOLIDS... 2420.

CHARGE BALANCE (X DIFF)... 1.8

ANALYSIS IN PPM

ISOTOPES 102001

AG....		CO3.....	3.				
AL....		CR.....		MG...	N		
CL....	0.39	F.....	7.0	NA...	224.	SI02.	20.
FE....		FE(101)...	0.03	NO...		SO4..	1604.
CA....	505.	HCO3.....	15.	NO3..	0.2		
CL....	52.						
CO....		K.....	1.6				

REFERENCE AND IDENTIFICATION

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

RECORD 00007

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0001666

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 11S 014W 35 SE
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... CATRON
 GEOLOGIC PROVINCE... 25

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

MAP REFERENCE..... WOODLAND PARK 1124000

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..... 1966/02/25

TEMPERATURE (C)..... 27.2

DISCHARGE..... 3.8 L/MIN

PERTINENT 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

PH..... 7.4

ANALYSIS IN PPM

ISOTOPES 102001

AG....		CO3.....		LI...	0.05
AL....		CR.....		MG...	0.73
CL....		F.....		NA...	43.
FE....		FE(101)...	N		
CA....	14.1				
CO....		H2S.....	N		
CL....		K.....	1.1		

REFERENCE AND IDENTIFICATION

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

RECORD 00008

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0001663

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 12S 013W 07 SE OF SW

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

STATE..... NEW MEXICO URM: NEW MEXICO PRINCIPAL
 COUNTY..... CATRON
 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..... 294.4 L/MIN
 PERTINENT 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.

WATER ANALYSIS

PH..... 8.5
 SPECIFIC CONDUCTANCE..... 200.

ANALYSIS IN PPM

ISOTOPES (0/00)

AG.....		CO3..... N	LI... 0.1		
AL..... 0.09		CR.....	MG... 0.86		
AS..... 0.007		CS.....	MN... 0.34		
BA.....		CU.....	MO... 0.021		
B..... N		F..... 3.6	NA... 42	SE... 0.021	
BR..... 0.29			SI02.. N		
CA..... 13		HCO3..... 90			
CD.....		H2S.....	PO4.. N		
CE..... 9.6		I..... 0.012			
CH.....		K..... N			

OTHER ANALYTICAL DATA... NO2 = 0.0082 PPM.

REFERENCE AND IDENTIFICATION

COLLECTED BY..... BROOK, C.A.
 COLLECTOR AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

RECORD 00009

GEOGRAPHIC COORDINATES

GEOTHERM FILE ID: 0001664

NAME OF SAMPLE SOURCE... MIDDLE FORK GILA RIVER - UNNAMED SPRING
 WELL/SPRING NUMBER..... 12S-13W-07-340

COUNTRY..... UNITED STATES LONGSHIP=RANGE
 STATE..... NEW MEXICO 12S 013W 07 SE OF SW
 COUNTY..... CATRON URM: NEW MEXICO PRINCIPAL
 GEOLOGIC PROVINCE.. 25
 MAP REFERENCE..... BURNT CORRAL CANYON 1124000

COORDINATES

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

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.. CASCADE
 TEMPERATURE (C)..... 24.4
 DISCHARGE.....

PERTINENT 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 MADE UP OF BLOCKS OF BASALT, RHYOLITE,
 RHYOLITE BRECCIA, AND RHYOLITE TUFF.

WATER ANALYSIS

PH..... 7.6
SPECIFIC CONDUCTANCE..... 200.

ANALYSIS IN PPM

AG....	CO3....	LI...	0.1		
AL....	CR.....	MG...	0.84		
BA....	F.....	NA...	39.	SI02.	70.
BE....	FE(TOT)..				
CA....	10.0				

ISOTOPES 10/001

CO..... K..... 1.0

REFERENCE AND IDENTIFICATION

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

RECORD 00010

GEOCHEM. SAMPLE TITLE

GEOTHERM FILE ID: 0001670

NAME OF SAMPLE SOURCE... PUEBLO WINDMILL

LOCATION

BASIN-RANGE

COORDINATES

COUNTRY..... UNITED STATES 04N 019W 25 SE OF NW SE
STATE..... NEW MEXICO BLM: NEW MEXICO PRINCIPAL
COUNTY..... CATRON
GEOLOGIC PROVINCE... 28

LAT/LONG... 34-32.40 N 108-46.63 W

MAP REFERENCE..... MORENO HILL 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1979/08

TEMPERATURE (C)..... 33.8

DISCHARGE.....

WATER ANALYSIS

PH..... 8.0
CHARGE IMBALANCE (% DIFF)... 14.8

ANALYSIS IN PPM

AL....	CR.....	MG...	29.		
AS....	CS.....	MN...	0.1		
BA....	F.....	NA...	140.	SI02.	14.
BE....	FE(TOT)..	NO...		S04..	310.
CA....	HCO3....				
CL....	68.				
CO.....	K.....				

ISOTOPES 10/001

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.
COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... LEVITE AND GAMBILL, 1980

RECORD 00011

GEOCHEM. SAMPLE TITLE

GEOTHERM FILE ID: 0000675

NAME OF SAMPLE SOURCE... SAN FRANCISCO HOT SPRINGS (LOWER FRISCO HOT SPRINGS)

WELL/SPRING NUMBER..... 125-204-23-321

LOCATION

BASIN-RANGE

COORDINATES

COUNTRY..... UNITED STATES 12S 020W 23 NW OF NW OF NE SW
STATE..... NEW MEXICO BLM: NEW MEXICO PRINCIPAL
COUNTY..... CATRON
GEOLOGIC PROVINCE... BASIN-RANGE
MAP REFERENCE..... WILSON MOUNTAIN 1:24000

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

P..... 7.35
ALKALINITY..... 121. AS HCO₃
TOTAL DISSOLVED SOLIDS.... 1015.
CHARGE IMBALANCE (% DIFF)... 0.0

ANALYSIS IN MG/L

AG....	CO ₃	LI....	0.43	S....	
AL....	CR....	MG....	6.2	SB....	
AS....	CS.... L 0.1	MN....	0.03		
AU....	CU.... L 0.01				
B.... 0.26	F.... 1.4	NA....	270.	SI02.	84.
BR....	FE (TOT). L 0.02	NB....		S04..	39.
CR....	GE....	NI.... L 0.02			
CA.... 40.	HCO ₃ 121.				
CL.... 430.					
CO....	K.... 15.	RB....	0.08	ZN.... L 0.01	

ISOTOPES (0/001)

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

REFERENCE AND IDENTIFICATION

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

RECORD 00012

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0001665

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

WELL/SPRING NUMBER..... 115-144-30-100

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 115 014W 30 NW
STATE..... NEW MEXICO B&M NEW MEXICO PRINCIPAL

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

COUNTY..... CATRON

GEOLOGIC PROVINCE.. 25

MAP REFERENCE..... WOODLAND PARK 1124000

OTHER LOCALITY INFORMATION: UPPER "GILA RIVER BASIN".

SAMPLE DESCRIPTION AND CONDITIONS

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

TEMPERATURE (C)..... 36.

DISCHARGE..... 76.5 L/MIN

PERTINENT 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

...750 FT LONG.

WATER ANALYSIS

P..... 7.5
SPECIFIC CONDUCTANCE..... 220.
CHARGE IMBALANCE (% DIFF)... 4.5

ANALYSIS IN PPM

AG....	CO ₃ N				
AL....	CR....	MG....	1.8		
AS....	CS....	MN.... N			
B....	F.... 3.4	NA....	24.	SI02.	21.
BR....	FE (TOT). 1.	NB....		S04..	5.5
CA.... 17.	HCO ₃ 90.				

ISOTOPES (0/001)

CI.... B.
 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

RECORD 00013

GEOTHERM 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

GEO THERM FILE ID: 0001834

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

RECORD 00014

GEOTHERM 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..... DILLON MOUNTAIN 1124000
 OTHER LOCALITY INFORMATION: ON THE "SAN FRANCISCO RIVER" IN THE "APACHE NATIONAL FOREST"; APPROXIMATELY 8.5 MILES EAST OF "LUHA RANGER STATION" (USFS), AND APPROXIMATELY 1.5 MILES UPSTREAM FROM THE DEEP CANYON ("THE BOX") THROUGH THE "SAN FRANCISCO MTS".
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1966/02/18
 TEMPERATURE (C)..... 36.7
 DISCHARGE..... E 39.5 L/MIN
 PERTINENT LITHOLOGY..... VOLCANIC CONGLOMERATE; TALUS BLOCK CONSISTS OF ANDESITE AND RHYOLITE TUFF WITH SANIDINE, QUARTZ, AND BIOTITE.
 OTHER SAMPLE INFORMATION.. SPRINGS EMERGE FROM TALUS COVER APPROXIMATELY 40 FT ABOVE THE BED OF THE RIVER ON A FLAT BENCH.
 WATER ANALYSIS
 P..... 9.15
 SPECIFIC CONDUCTANCE..... 242.
 TOTAL DISSOLVED SOLIDS... 223.
 ANALYSIS IN PPM
 AG.... CO3.... 19.
 AL.... 0.23 CR.....
 AS.... 0.007 CS.....
 AU.... CI.....
 B.... 0.037 F..... 2.
 LI... 0.1
 MG... 0.1
 MN... N
 MU...
 NA... 69.
 SE... 0.0049
 SI02. 40.

GEO THERM FILE ID: 0001616

ISOTOPES 10/001

HF..... FE(TOT)... 0.08
 BR..... 0.76
 CA..... 3. HCO3..... 97.
 CO..... H2S..... PO4... 0.05
 CL..... 12. I..... N
 CO..... K..... 0.15

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 SAMPLE FILE

GEOTHERM FILE 101 0070837

NAME OF SAMPLE SOURCE... ALLISON WELL

WELL/SPRING NUMBER..... 11S-24E-26-224

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 11S 024E 26 SE OF NE OF NE LAT/LONG... 33-18.93 N 104-28.17 W
 STATE..... NEW MEXICO B&M NEW MEXICO PRINCIPAL
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE.. PERMIAN BASIN
 MAP REFERENCE..... SOUTH SPRING 1124000

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 ("ROSWEEL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".

WATER ANALYSIS

P..... 7.

CHARGE IMBALANCE (% DIFF)... 190.7

ANALYSIS IN PPM

ISOTOPE 10/001

AL.....	CR.....	0.0007	MG...	41.	
AU.....	CU.....	0.0025			
B.....	F.....	8000.	NA...	29.	
BA.....					
BE.....	FE(TOT)...	0.088	NB...		S04.. 330.
BI.....	GA.....		NH4..		SR... 1.8
CA.....	HCO3.....	215.	NO3..	5.6	
CA+MG.	HG.....	N	PB...	0.019	
CL.....					
CO.....	K.....	1.2			
			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

RECORD 00016

GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0070836

NAME OF SAMPLE SOURCE... ALLISON WELL

WELL/SPRING NUMBER..... 11S-24E-26-224

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 11S 024E 26 SE OF NE OF NE LAT/LONG... 33-18.93 N 104-28.17 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE... PERMIAN BASIN
 MAP REFERENCE..... SOUTH SPRING 1124000
 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 ("ROSWELL LESTONE" MEMBER) OF THE "SAN ANDRES LESTONE".
 WATER ANALYSIS
 PH..... 7.4
 CHARGE IMBALANCE (% DIFF)... 49.2
 ANALYSIS IN PPM
 AL.... CR..... N MG... 69.
 AU.... CU..... N
 BA.... F..... N NA... 41.
 BR.... 0.029
 BF.... FE(TOT)... 0.0001 NB... 362.
 BI.... GA..... NH4... 1.7
 CA.... 168. HCO3... 0.0038 NO3... N
 CA+MG... HG..... N PB... N
 CL.... 75.
 CO.... K..... 2.6 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

ISOTOPES (0/001)

RECORD 00017

GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0070835

NAME OF SAMPLE SOURCE... ALLYSON WELL
 WELL/SPRING NUMBER..... 11S-24E-25-341
 WARNING NUMBER.....
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE COORDINATES
 STATE..... NEW MEXICO 11S 024E 25 NW OF SE OF SW LAT/LONG... 33-18.42 N 104-27.78 W
 COUNTY..... CHAVES B&M: NEW MEXICO PRINCIPAL
 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..... 1975/05/00
 TEMPERATURE (C)..... 20.9
 WELL DEPTH (M)..... 207.
 DISCHARGE..... R 7003. L/MIN
 PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("ROSWELL LESTONE" MEMBER) OF THE "SAN ANDRES LESTONE".
 WATER ANALYSIS
 PH..... 7.
 CHARGE IMBALANCE (% DIFF)... 5.2
 ANALYSIS IN PPM
 AL.... CR..... 0.0011 MG... 36.
ISOTOPES (0/001)

AL....		CU..... N			
H.....		F.....	0.5	NA...	25.
HA....	0.03				
BE....		FE(TOT)...	1.2	NB...	S04.. 241.
BI....		GA.....		NH4..	SR... 1.2
CA....	139.	HCO3.....	232.	NO3..	7.6
CA+MG...		HG..... N		PB...	0.0065
CL....	43.				
CO....		K.....	1.4		
				ZN...	0.0034

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

REFERENCE AND IDENTIFICATION

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

RECORD 00018

GEOtherm SAMPLE FILE

GEOTHERM FILE ID: 0070834

NAME OF SAMPLE SOURCE... ALLYSON WELL

WELL/SPRING NUMBER..... 11S-24E-25-341

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 11S 024E 25 NW OF SE OF SW LAT/LONG... 33-18.42 N 104-27.78 W
 STATE..... NEW MEXICO 04M NEW MEXICO PRINCIPAL

COUNTY..... CHAVES

GEOLOGIC PROVINCE... PERMIAN BASIN

MAP REFERENCE..... SOUTH SPRING 1124000

OTHER LOCALITY INFORMATION: ELEVATION = 1089.9 M (TOP OF WELL)

SAMPLE DESCRIPTION AND COLLECTION

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

TEMPERATURE (C)..... 20.2

WELL DEPTH (M)..... 207.

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

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

WATER ANALYSIS

PH..... 7.4

CHARGE BALANCE (% DIFF)... 24.2

ANALYSIS IN PPM

ISOTOPIES 10/001

AL....		CR..... N		MG...	37.
H.....		CU.....	0.0027		
HA....	0.037	F..... N		NA...	26.
BE....		FE(TOT)...	0.0001	NB...	S04.. 250.
BI....		GA.....		NH4..	SR... 1.6
CA....	83.	HCO3.....	226.	NO3.. N	
CA+MG...		Hg..... N		PB... N	
CL....	63.				
CO....		K.....	1.		
				ZN...	N

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

REFERENCE AND IDENTIFICATION

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

RECORD 00019

GEOtherm SAMPLE FILE

GEOTHERM FILE ID: 0070833

NAME OF SAMPLE SOURCE... ALLYSON WELL
 WELL/SPRING NUMBER..... 11S-24E-25-141
 LOCATION
 COUNTRY..... UNITED STATES 11S 024E 25 NW OF SE OF SW COORDINATES
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL LAT/LONG... 33-18.42 N 104-27.78 W
 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..... 1973/05/00
 TEMPERATURE (C)..... 20.5
 WELL DEPTH (M)..... 207.
 DISCHARGE..... R 7003. L/MIN
 PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("ROSWEEL LESTONE" MEMBER) OF THE "SAN ANDRES LESTONE".
 WATER ANALYSIS
 PH..... 7.5
 CHARGE IMBALANCE (% DIFF)... 68.3
 ANALYSIS IN PPM
 AL.... CR..... N MG... 65. ISOTOPES (0/00)
 AU.... CU..... N
 BA.... F..... N NA... 42.
 BE.... FE(TOT). N NB... S04.. 292.
 BI.... GA..... NH4.. SR... N
 CA.... 219. HCO3.... 0.0039 NO3.. N
 CA+MG. HG..... N PB... N
 CE.... 199. CO.... K..... 1.5 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 SAMPLE FILE
 NAME OF SAMPLE SOURCE... ALLYSON WELL
 WELL/SPRING NUMBER..... 11S-24E-25-312
 LOCATION
 COUNTRY..... UNITED STATES 11S 024E 25 NE OF NW OF SW COORDINATES
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL LAT/LONG... 33-19.13 N 104-27.80 W
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE.. PERMIAN BASIN
 MAP REFERENCE..... SOUTH SPRING 1124000
 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 ("ROSWEEL LESTONE" MEMBER) OF THE "SAN ANDRES LESTONE".
 WATER ANALYSIS
 PH..... 7.2
 CHARGE IMBALANCE (% DIFF)... 5.3

LSOJOPES 00/001

OTHER ANALYTICAL DATA... H⁺ = 7.3 ppm.
REFERENCE AND IDENTIFICATION
COMPILED BY..... LAWSON, WILLIAM A
COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... LEBEQUE, 1977

RECORD 00022

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0070842

NAME OF SAMPLE SOURCE... CLARDY EAST WELL

WELL/SPRING NUMBER..... 11S-25E-15-J43

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 11S 02SE 15 SW OF SE OF SW LAT/LONG... 33-21.07 N 104-23.55 W

STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

COUNTY..... CHAVES

GEOLOGIC PROVINCE.. PERMIAN BASIN

MAP REFERENCE..... SOUTH SPRING 1124000

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 ("ROSWELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".

OTHER SAMPLE INFORMATION.. WELL DRILLED FEB. 1931.

WATER ANALYSIS

PH..... 6.7

CHARGE IMBALANCE (% DIFF)... 12.6

ANALYSIS IN PPM

ISOTOPES (0/001)

AL..... CR..... N MG... 28.

AR..... CU..... N

K..... F..... N NA... 130.

BA..... H

HE..... FE (TOT). N NB... 504.. 503.

HI..... GA..... NH4.. SR... 1.9

CA..... 190. HCO3... 0.0034 NO3.. 9.1

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

CL..... 375.

CO..... K..... 1.

ZN... N

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 00023

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0070841

NAME OF SAMPLE SOURCE... CLARDY EAST WELL

WELL/SPRING NUMBER..... 11S-25E-15-J43

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 11S 02SE 15 SW OF SE OF SW LAT/LONG... 33-21.07 N 104-23.55 W

STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

COUNTY..... CHAVES

GEOLOGIC PROVINCE.. PERMIAN BASIN

MAP REFERENCE..... SOUTH SPRING 1124000

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.

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

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

AL....	CR..... N	MG...	90.		
AU....	CU..... N				
B.....	F..... N	NA...	320.		
BA.... 0.033					
BE....	FE(TOT).. 0.05	NB...		S04..	512.
BI....	GA.....	NH4..		SR...	2.5
CA.... 267.	HCO3.... 0.0037	NO3.. N			
CA+MG.	HG..... N	PB...	N		
CL.... 375.					
CO....	K..... 1.8				
		ZN...	N		

ISOTOPES (02/001)

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 00024

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0070846

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES	11S 02SE 23	NW OF NW OF NW	LAT/LONG... 33-20.92 N 104-22.73 W
STATE..... NEW MEXICO	B&M: NEW MEXICO	PRINCIPAL	
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 COMMENTS

DATE/COLLECTOR..... 1975/05/00
 TEMPERATURE (C)..... 21.
 WELL DEPTH (M)..... 258.
 DISCHARGE..... R 3785. L/MIN

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

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

AL....	CR..... 0.0016	MG...	105.		
AU....	CU..... N				
B.....	F..... 0.7	NA...	460.		
BA.... 0.02					
BE....	FE(TOT).. 0.75	NB...		S04..	604.
BI....	GA.....	NH4..		SR...	3.2
CA.... 260.	HCO3.... 208.	NO3..	17.		
CA+MG.	HG..... N	PB...	0.022		
CL.... 880.					
CO....	K..... 2.5				
		ZN...	0.0031		

ISOTOPES (02/001)

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

REFERENCE AND IDENTIFICATION

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

RECORD 00025

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0070845

NAME OF SAMPLE SOURCE... CLARDY WELL

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 11S 02SE 23 NW OF NW OF NW LAT/LONG... 33-20.92 N 104-22.73 W
 STATE..... NEW MEXICO 8&M: NEW MEXICO PRINCIPAL

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 ("ROSWELL LESTONE" MEMBER) OF THE "SAN ANDRES LESTONE".

OTHER SAMPLE INFORMATION.. WELL DRILLED JUNE, 1957.

WATER ANALYSIS

PH..... 7.1

CHARGE IMBALANCE (% DIFF)... 33.1

ANALYSIS IN PPM

ISOTOPES (0/001)

AL.....	CR..... N	MG...	104.		
AR.....	CU..... N				
H.....	F..... N	NA...	600.		
BA..... 0.038					
BE.....	FE(TOT).. 0.05	NB...		504.. 633.	
BI.....	GA.....	NH4..		SR... 3.2	
CA..... 279.	HCO3.... 0.0034	NO3.. N			
CA+MG.	MG..... N	PB... N			
CL..... 770.					
CO.....	K..... 3.4				
		ZN... N			

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

REFERENCE AND IDENTIFICATION

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

RECORD 00026

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0070817

NAME OF SAMPLE SOURCE... COODILL - DOMESTIC WELL

WELL/SPRING NUMBER..... 11S-24E-15-333

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 11S 02SE 15 SW OF SW OF SW LAT/LONG... 33-26.33 N 104-30.22 W
 STATE..... NEW MEXICO 8&M: NEW MEXICO PRINCIPAL

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..... 1976/07/00

TEMPERATURE (C)..... 20.

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

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

PERTINENT LITHOLOGY..... SHALLOW UNCONFINED UPPER ALLOVIUM AQUIFER.

WATER ANALYSIS

P..... 7.1

CHARGE IMBALANCE (% DIFF)... 10.1

ANALYSIS IN PPM

ISOTOPES (0/001)

AL.....	CR..... N	MG...	22.		
AR.....	CU..... N				
B.....	F..... N	KA...	1450.		
BA.....					
BE.....	FE (TOT). N	NB...		S04..	2720.
BI.....	GA.....	NH4...		SR...	N
CA.....	HCO3..... 0.0038	NO3.. N			
CA+MG.	NO..... N	PB... N			
CL.....					
CO.....	K..... 3.4				
		ZN...	N		

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

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... FEFEBRE, 1977

RECORD 00027

GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0070816

NAME OF SAMPLE SOURCE... COGDILL - DOMESTIC WELL

WELL/SPRING NUMBER..... 105-24E-15-333

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	105 024E 15	SW OF SW OF SW	LAT/LONG...	33-26.33 N 104-30.22 W
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 ALLOVIUM AQUIFER.

WATER ANALYSIS

P..... 8.1

CHARGE IMBALANCE (% DIFF)... 7.0

ANALYSIS IN PPM

ISOTOPES (0/001)

AL.....	CR..... N	MG...	239.		
AR.....	CU..... N				
B.....	F..... N	KA...	770.		
BA.....					
BE.....	FE (TOT). N	NB...		S04..	1804.
BI.....	GA.....	NH4...		SR...	N
CA.....	HCO3..... 0.0028	NO3.. N			
CA+MG.	NO..... N	PB... N			

CL.... 1435.
 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..... FEFEBRE, 1977

ZN... N

RECORD 00028

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0070806

NAME OF SAMPLE SOURCE... CORN RANCH - SECTION 13 WINDMILL
 WELL/SPRING NUMBER..... OBS-22E-13-223

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES OBS 022E 13 NE OF NW OF NE LAT/LONG... 33-37.52 N 104-40.17 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 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

ISOTOPIES (0/00)

AL....	CR.....	0.0048	MG...	54.	
AR....	CU.....	0.004			
B....	F.....	N	NA...	520.	
BA....					
BE....	FE(TOT)...	2.7	NB...		S04.. 258.
BI....	GA.....		NH4..		SR... 1.2
CA....	HCO3.....	185.	NO3..	12.	
CA-MG.	HG.....	N	PH...	902.	
CL....					
CO....	K.....	1.3			
			ZN...	0.4	

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

REFERENCE AND IDENTIFICATION

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

RECORD 00029

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0070809

NAME OF SAMPLE SOURCE... CORN RANCH - SECTION 16 WINDMILL
 WELL/SPRING NUMBER..... OBS-23E-16-110

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 16 NW OF NW LAT/LONG... 33-37.58 N 104-37.62 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... CHAVES

GEOLOGIC PROVINCE.. PERMIAN BASIN

MAP REFERENCE..... PANTHER HILL 1:24000
 OTHER LOCALITY INFORMATION: CENTER OF NW COR. OF NW QTR. OF SEC. 161 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				
B.....	F..... N	NA...	420.		
BA..... 0.043					
BE.....	FE (TOT). 2.6	NB...		S04..	1442.
BI.....	GA.....	NH4..		SR...	9.
CA..... 535.	HC03... 0.0049	NO3.. N			
CA-MG.	MG..... N	PB... N			
CL..... 530.					
CO.....	K..... 3.				
		ZN... N			

ISOTOPES (0/00)

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 00030

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0070808

NAME OF SAMPLE SOURCE... CORN RANCH - SECTION 16 WINDMILL
 WELL/SPRING NUMBER..... OBS-23E-16-110

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES OBS 023E 16 NW OF NW
 STATE..... NEW MEXICO OBS 1 NEW MEXICO PRINCIPAL
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE.. PERMIAN BASIN

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

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				
B.....	F..... N	NA...	470.		
BA..... 0.003					
BE.....	FE (TOT). 1.2	NB...		S04..	1617.

ISOTOPES (0/00)

HI.... GA..... NH4... SR... 9.1
 CA.... 531. HCO3.... 0.003 NO3.. N
 CA+MG. HG..... N PB... N
 CL.... 500.
 CO.... K..... 3.2 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 00031

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0070814

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

WELL/SPRING NUMBER..... OBS-23E-16-110

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES OBS 023E 16 NW OF NW
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE.. PERMIAN BASIN
 MAP REFERENCE..... PANIHU HILL 1124000

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

OTHER LOCALITY INFORMATION: 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 IMBALANCE (% DIFF)... 18.2

ANALYSIS IN PPM

ISOTOPES (0/001)

AL....	CR.....	0.001	MG...	174.		
AU....	CU.....	0.0008				
H....	F.....	0.69	NA...	349.		
BA.... 0.025						
BE....	FE (TOT). H		NB...	504..	2075.	
BI....	GA.....		NH4..	SR...	9.8	
CA.... 305.	HCO3....	316.	NO3..	3.4		
CA+MG.	HG..... N		PB...	0.023		
CL.... 325.						
CO....	K.....	2.7	ZN...	0.11		

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 00032

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0070813

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

WELL/SPRING NUMBER..... OBS-23E-16-110

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES OBS 023E 16 NW OF NW

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

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....	CR.....	0.0029	MG...	173.	
AU....	CU.....	0.0017			
B....	F.....	0.7	NA...	253.	
BA....					
BF....	FE(TOT)..	8.8	NB...		S04.. 1575.
BI....	GA.....		NH4..		SR... 4.5
CA....	HCO3.....	299.	NO3..	20.	
CA-MG.	MO.....		PB...	0.275	
CL....					
CO....	K.....	2.7			
			ZN...	0.13	

ISOTOPES (0/00)

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 00033

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0070811

NAME OF SAMPLE SOURCE... CORN RANCH - SECTION 16 WINDMILL
 WELL/SPRING NUMBER..... OBS-2JE-16-110

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES OBS 023E 16 NW OF NW
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

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

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....	CR.....	0.0045	MG...	190.
AU....	CU.....			
B....	F.....	0.55	NA...	190.

ISOTOPES (0/00)

BA.... 0.025
 BE.... FE(TOT). 16. NB... S04.. 2200.
 BI.... GA..... NH4.. SR... 10.
 CA.... 470. HCO3... 340. NO3.. N
 CA+MG. HG..... N PB... 0.02
 CL.... 170. CO.... K..... 2.5 ZN... N
 CU.... R..... 2.5

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

REFERENCE AND IDENTIFICATION

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

RECORD 00034

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0070810

NAME OF SAMPLE SOURCE... CORN RANCH - SECTION 16 WINDMILL
 WELL/SPRING NUMBER..... 085-23E-16-110

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES URS 023E 16 NW OF NW
 STATE..... NEW MEXICO B&M NEW MEXICO PRINCIPAL
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE... PERMIAN BASIN
 MAP REFERENCE..... PANTHER HILL 1124000

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

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)..... 170.

DISCHARGE..... L 3.8 L/MIN

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

OTHER SAMPLE INFORMATION.. 300.

WATER ANALYSIS

PH..... 7.

CHARGE IMBALANCE (% DIFF)... 149.0

ANALYSIS IN PPM

AL.... CR..... N MG... 1500.

AR.... CU..... 9.5

B.... F..... N NA... 3.

BA.... 7.5

BE.... FE(TOT). 0.031 NB... S04.. S45.

BI.... GA..... NH4.. SR... N

CA.... 150. HCO3... 0.032 NO3.. N

CA+MG. HG..... N PB... 0.0055

CL.... 319.

CO.... K..... 432. ZN... N

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

REFERENCE AND IDENTIFICATION

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

RECORD 00035

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0070812

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

WELL/SPRING NUMBER..... OBS-23E-16-110

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES OBS 023E 16 NW OF NW
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

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

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..... 1974/11/00

TEMPERATURE (C)..... 21.5

ELL DEPTH (M)..... 170.

DISCHARGE..... L 3.8 L/MIN

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

WATER ANALYSIS

PH..... 7.5

ANALYSIS IN PPM

ISOTOPES (0/00)

AL..... CR..... 0.0035 MG... 190.

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

N..... F..... 0.78 NA... 320.

BA..... 0.032

FE..... FE (TOT). 10. NB... S04.. 2200.

HI..... GA..... NH4.. SR... 9.

CA..... 470. HCO3... N NO3.. N

CA+MG. MG..... N PB... 0.004

CL..... 100.

CO..... K..... 2.6 ZN... N

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

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... LEBRE, 1977

RECORD 00036

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0070807

NAME OF SAMPLE SOURCE... CORN RANCH - SECTION 22 WINDMILL

WELL/SPRING NUMBER..... OBS-22E-22-222

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES OBS 022E 22 NE OF NE OF NE
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

LAT/LONG... 33-36.72 N 104-42.12 W

COUNTY..... CHAVES

GEOLOGIC PROVINCE.. PERMIAN BASIN

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

PH..... 7.4

CHARGE IMBALANCE (% DIFF)... 100.7

ANALYSIS IN PPM

ISOTOPES (0/00)

AL..... CR..... 0.00175 MG... 35.

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

H.....		F.....	4400.	NA...	333.		
HA.....	0.03						
HE.....		FE(TOT).	1.3	NH...		S04..	212.
HI.....		GA.....		NH4..		SR...	1.2
CA.....	103.	HC03.....	178.	N03..	13.		
CA+MG.		HG.....	N	PB...	0.0155		
CL.....	347.						
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 00037

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0070805

NAME OF SAMPLE SOURCE... CORN RANCH - SECTION 36 WINDMILL

WELL/SPRING NUMBER..... 07S-22E-36-422

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	07S 02E 36	NE OF NE OF SE	LAT/LONG...	33-39.85 N 104-39.92 W
STATE.....	NEW MEXICO		B&M: NEW MEXICO PRINCIPAL		
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..... 1975/07/00

TEMPERATURE (C)..... 23.4

DISCHARGE..... L 3.8 L/MIN

PERTINENT LITHOLOGY..... DEEP UNCONFINED AQUIFER IN "SAN ANDRES LIMESTONE".

WATER ANALYSIS

PH..... 7.1
 CHARGE IMBALANCE (% DIFF)... 102.2

ANALYSIS IN PPM

ISOTOPES (0/001)

AL.....		CR.....	N	MG...	72.		
AU.....		CU.....	0.0093				
B.....		F.....	6600.	NA...	486.		
BA.....	0.03						
BE.....		FE(TOT).	1.5	NB...		S04..	775.
BI.....		GA.....		NH4..		SR...	4.
CA.....	263.	HC03.....	170.	N03..	13.		
CA+MG.		HG.....	N	PB...	915.		
CL.....	730.						
CO.....		K.....	2.4				
				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 00038

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0070804

NAME OF SAMPLE SOURCE... CORN RANCH - SECTION 36 WINDMILL

WELL/SPRING NUMBER..... 07S-22E-36-422

LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP=RANGE COORDINATES
 STATE..... NEW MEXICO 07S 022E 36 NE OF NE OF SE LAT/LONG... 33-39.85 N 104-39.92 W
 COUNTY..... CHAVES B&M: NEW MEXICO PRINCIPAL
 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

PH..... 6.8

CHARGE IMBALANCE (% DIFF)... 3.5

ANALYSIS IN PPM

AL....	CR.....	0.0038	MG...	73.		
AU....	CU.....	N				
H.....	F.....	0.5	NA...	510.		
HA....						
HE....	FE(TOT)...	1.7	NB...		S04..	789.
HI....	GA.....		NH4..		SR...	4.2
CA....	HCUS.....	161.	NO3..	12.		
CA+MG.	HG.....	N	PB...	0.03		
CL....						
CO....	K.....	2.3				
			ZN...	1.2		

ISOTOPES (0/00)

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

GEO THERM SAMPLE TITLE

GEO THERM FILE ID: 0070B03

NAME OF SAMPLE SOURCE... CORN RANCH - SECTION 36 WINDMILL
 WELL/SPRING NUMBER..... 07S-22E-36-422

LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP=RANGE COORDINATES
 STATE..... NEW MEXICO 07S 022E 36 NE OF NE OF SE LAT/LONG... 33-39.85 N 104-39.92 W
 COUNTY..... CHAVES B&M: NEW MEXICO PRINCIPAL
 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

PH..... 7.2

CHARGE IMBALANCE (% DIFF)... 0.1

ANALYSIS IN PPM

AL....	CR.....	N	MG...	57.		
AU....	CU.....	0.081				
H.....	F.....	N	NA...	300.		

ISOTOPES (0/00)

BA.... 0.036
 BE.... FE(TOT). 7. NB... S04.. 700.
 BI.... GA..... NH4.. SR... 3.9
 CA.... 248. HCO3.... 157. NO3.. N
 CA+MG. HG..... N PB... N
 CL.... 555. K..... 2.3 ZN... N
 CO....

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 00040

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0070802

NAME OF SAMPLE SOURCE... CORN RANCH - SECTION 36 WINDMILL
 WELL/SPRING NUMBER..... 07S-22E-36-422

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 07S 022E 36 NE OF NE OF SE LAT/LONG... 33-39.85 N 104-39.92 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 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

PH..... 7.55
 CHARGE IMBALANCE (% DIFF)... 34.9

ANALYSIS IN PPM

ISOTOPES (0/001)

AL.... CR..... N MG... 116.
 AU.... CU..... N NA... 400.
 B.... F..... N
 BA.... 0.036
 BE.... FE(TOT). 20. NB... S04.. 682.
 BI.... GA..... NH4.. SR... 4.3
 CA.... 348. HCO3.... 0.0027 NO3.. N
 CA+MG. HG..... N PB... N
 CL.... 605. K..... 3. ZN... N
 CO....

OTHER ANALYTICAL DATA... H+=7.55 PPM.

REFERENCE AND IDENTIFICATION

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

RECORD 00041

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0070825

NAME OF SAMPLE SOURCE... HENDRICK WELL
 WELL/SPRING NUMBER..... 11S-23E-01-433

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 11S 023E 01 NE OF SW OF SE LAT/LONG... 33-22.90 N 104-33.70 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 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.		
AP....		CU..... N					
HA....		F..... N		NA...	165.		
HA....	0.02						
RE....		FE (TOT)...	5.	NB...		S04..	476.
HI....		GA.....		NH4..		SR...	1.7
CA....	199.	HCO3....	222.	NO3..	13.		
CA+MG.		HG..... N		PH...	0.0095		
CL....	170.						
CO....		K.....	1.3				
				ZN...	0.07		

ISOTOPES (0/00)

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 00042

GEOTHERMAL SAMPLE FILE

GEOTHERM FILE 101 0070826

NAME OF SAMPLE SOURCE... JENNINGS WELL
 WELL/SPRING NUMBER..... 11S-23E-12-333

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 11S 023E 12 SW OF SW OF SW LAT/LONG... 33-21.98 N 104-34.58 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 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..... 1973/03/00
 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.
AP....		CU..... N			

ISOTOPES (0/00)

$$Z_N \dots N$$

GEOTHERM SAMPLE LIST

GEOTHERM FILE ID: 0070827

NAME OF SAMPLE SOURCE... JENNINGS WELL
WELL/SPRING NUMBER..... 11S-23E-12-333

LOCATION

LOWNSHIP-RANGE

COORDINATES

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

COUNTRY..... UNITED STATES 11S 023E 12 SW OF SW OF SW
STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

COUNTY..... CHAVES
GEOLOGIC PROVINCE.. PERMIAN BASIN

GEOLOGIC PROVINCE.. PERMIAN BASIN
MAP REFERENCE..... ROSWELL SOUTH 1124000

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

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COMPLETOR..... 1973/05/00

TEMPERATURE (C)..... 20.4

WELL DEPTH (M)	52.
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DISCHARGE..... R 3406. L/MIN

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

WATER ANALYSIS

P-4..... 7.2

CHARGE BALANCE (% DIFF)... 22.6

ANALYSIS IN PPM

AL.... CR..... N MG... 82.

CU.....N

H..... F..... N NA... 51.

HA.... (1.03)
DE 55 (1.03)

FE....	FE(TOT).	0.0003	NU...	S04..	522.
HI					

BT....	GA.....	NH4..	SR...	2.
CA	HCH	NH3		

202.	AC03....	0.0035	NO3..	N
CA+MG.	MG.....	N	PH...	N

CL.... 155.

CO..... K..... 1.3

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

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... 1 FEBRE, 1977

GEOGRAPHICAL SAMPLE LIST

GEOTHERM FILE ID: 0070857

NAME OF SAMPLE SOURCE... JOHNSON IRRIGATION WELL

AL....		CR..... N	MG...	85.		
AU....		CU..... N				
H....		F..... N	NA...	430.		
HA....	0.031					
HE....		FE(TOT)...	0.0001	NB...	S04..	502.
HI....		GA.....		NH4..	SR...	2.6
CA....	210.	HCO3....	0.0034	NO3..		
CA-MG.		HG..... N		PH...		
CL....	350.					
CO....		K.....	2.			
				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 00046

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0070840

NAME OF SAMPLE SOURCE... OASIS WELL

WELL/SPRING NUMBER..... 11S-25E-15-333

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	11S 02SE 15	SW OF SW OF SW	LAT/LONG...	33-21.05 N 104-23.82 W
STATE.....	NEW MEXICO				
COUNTY.....	CHAVES				
GEOLOGIC PROVINCE..	PERMIAN BASIN				

HAD REFERENCE.....	SOUTH SPRING 1124000
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OTHER LOCALITY INFORMATION: ELEVATION = 1059. M (TOP OF WELL).

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR.....	1975/05/00
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TEMPERATURE (C).....	20.5
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WELL DEPTH (M).....	238.
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DISCHARGE.....	K 7571. L/MIN
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PERTINENT LITHOLOGY..... AQUIFER IN SAN ANDRES LIMESTONE.

WATER ANALYSIS

PH.....	6.8
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CHARGE IMBALANCE (% DIFF)...	11.8
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ANALYSIS IN PPM

ISOTOPES 102001

AL....		CR.....	0.0011	MG...	60.		
AU....		CU.....	0.0023				
H....		F.....	0.7	NA...	200.		
HA....	0.026						
HE....		FE(TOT)...	8.	NB...	S04..	412.	
HI....		GA.....		NH4..	SR...	2.6	
CA....	195.	HCO3....	213.	NO3..			
CA-MG.		HG..... N		PH...		0.046	
CL....	310.						
CO....		K.....	1.6				
				ZN...	0.003		

OTHER ANALYTICAL DATA... H* = 6.6 PPM.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... LEFEBRE, 1977

GEOTHERM FILE ID: 0070839

NAME OF SAMPLE SOURCE... OASIS WELL
WELL/SPRING NUMBER..... 11S-25E-15-333

LOHNSHIP=RANGE

CORRUPTIBLES

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
LAT/LONG... 33-21.05 N 104-23.82 W

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- 1 ZMLN

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

WATER ANALYSIS

CHARGE IMBALANCE (\$ DIFF)... 176.1

ANALYSIS IN PPM

AI	0.0021	CR	0.0021	MG	64.		
AU		CU	N				
B		F	7600.	HA	245.		
BA	0.004						
BE		FE (TOT)	0.6	NH		504..	560.
BI		GA		NH4		SR...	2.8
CA	220.	HC03	205.	N03	N		
CA+AG		HG	N	PB	0.028		
CL	3/5.						
CO		K	1.9			ZN	N

ISOICES 10/001

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

REFERENCE AND IDENTIFICATION

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

RECORD 00048

GEOTHERM FILE 101 0070850

GEOGRAPHICAL SAMPLE FILE

NAME OF SAMPLE SOURCE... PATTERSON WELL
WELL/SPRING NUMBER..... 12S-23E-05-341

LOCATION

TOWNSHIP=RANGE

COVULNAIS

COUNTRY..... UNITED STATES 12S 023E 05 NW OF SE OF SW LAT/LONG... 33-17.63 N 104-38.53 W
STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

COUNTY..... CHAVES
GEOLOGIC PROVINCE.. PERMIAN BASIN
MAP REFERENCE..... HORDO RESERVOIR 1124000

OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1160.7 M.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1975/05/00
TEMPERATURE (C)..... 20.
ICE DEPTH (M)..... 140.
DISCHARGE..... R 189. L/MIN

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

ISOTOPES (0/001)

AL.....	CR.....	0.00145	MG...	40.		
AR.....	CU.....	N				
B.....	F.....	0.1	NA...	42.		
BA.....						
BE.....	FE (TOT)...	0.77	NB...		S04..	285.
BI.....	GA.....		NH4..		SR...	2.2
CA.....	HCO3.....	241.	NO3..	16.		
CA+MG.	HG.....	N	PB...	0.0095		
CL.....						
CO.....	K.....	1.1				
			ZN...	0.0042		

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

REFERENCE AND QUALIFICATION

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

RECORD 00049

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0070852

NAME OF SAMPLE SOURCE... PATTERSON WELL

WELL/SPRING NUMBER..... 12S-23E-06-411

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	12S 023E 06	NW OF NW OF SE	LAT/LONG...	33-17.87 N 104-39.33 W
STATE.....	NEW MEXICO		B&M: NEW MEXICO PRINCIPAL		
COUNTY.....	CHAVES				
GEOLOGIC PROVINCE..	PERMIAN BASIN				
MAP REFERENCE.....	MONDO RESERVOIR 1124000				

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

ISOTOPES (0/001)

AL.....	CR.....	N	MG...	N		
AR.....	CU.....	N				
B.....	F.....	N	NA...	N		
BA.....						
BE.....	FE (TOT)...	0.1	NB...		S04..	272.
BI.....	GA.....		NH4..		SR...	1.8
CA.....	HCO3.....	0.0041	NO3..	N		
CA+MG.	HG.....	N	PB...	N		
CL.....						
CO.....	K.....	N				
			ZN...	N		

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

REFERENCE AND QUALIFICATION

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

REFERENCE..... LEFEBRE, 1977

RECORD 00050

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0070851

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

WELL/SPRING NUMBER..... 12S-23E-06-214

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 12S 023E 06 SE OF NW OF NE LAT/LONG... 33-18.18 N 104-39.20 W

STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

COUNTY..... CHAVES

GEOLOGIC PROVINCE.. PERMIAN BASIN

MAP REFERENCE..... MONDO 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 ("ROSSELL 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

ISOTOPES (0/00)

AL..... CR..... 0.0006 MG... 37.

AU..... CU..... 0.0033

H..... F..... 7700. NA... 28.

BA... 0.025

BE..... FE(TOT). 0.43 NB... S04.. 288.

BI..... GA..... NH4.. SR... 1.8

CA... 89. HCO3... 243. NO3.. 9.9

CA+MG. HG..... N PB... 0.01

CL... 31.

CO..... K..... 1.2 ZN... 0.0135

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 00051

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0070859

NAME OF SAMPLE SOURCE... POLLARD WELL

WELL/SPRING NUMBER..... 15S-26E-13-121

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 15S 026E 13 NW OF NW OF NE NW LAT/LONG... 33-01.35 N 104-17.72 W

STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

COUNTY..... CHAVES

GEOLOGIC PROVINCE.. PERMIAN BASIN

MAP REFERENCE..... HAGERMAN 1:24000

OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1024.7 M.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1975/02/00

POINT OF COLLECTION.. WATER TANK

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

PH..... 7.2
 CHARGE IMBALANCE (% DIFF)... 4.0
 ANALYSIS IN PPM

ISOTOPES (0/001)

AL....	CR.....	0.001	MG...	56.		
AU....	CU.....	0.006				
H.....	F.....	1.6	NA...	19.		
HA....						
HE....	FE(TOT)...	0.1	NB...		S04..	470.
HI....	GA.....		NH4..		SR...	2.8
CA....	HCO3....	232.	NO3..	20.		
CA+MG.	HG.....	N	PB...	0.14		
CL....						
CO....	K.....	1.				
			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

RECORD 00052

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0070950

NAME OF SAMPLE SOURCE... POLLARD WELL
 WELL/SPRING NUMBER..... 155-26E-13-121

LOCATIONTOWNSHIP=RANGECOORDINATES

COUNTRY..... UNITED STATES 155 026E 13 NW OF NW OF NE NW LAT/LONG... 33-01.35 N 104-17.72 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE.. PERMIAN BASIN
 MAP REFERENCE..... MAGERMAN 1124000

OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1024.7 M.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1974/04/00
 POINT OF COLLECTION.. WATER TANK
 TEMPERATURE (C)..... 24.2
 WELL DEPTH (M)..... 421.
 DISCHARGE..... R 7571. L/MIN
 PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("ROSWELL LESTONE" MEMBER) OF THE "SAN ANDRES LESTONE".
 WATER ANALYSIS

PH..... 7.3
 CHARGE IMBALANCE (% DIFF)... 24.1
 ANALYSIS IN PPM

ISOTOPES (0/001)

AL....	CR.....	N	MG...	56.		
AU....	CU.....	0.0041				
H.....	F.....	N	NA...	28.		
HA....						
HE....	FE(TOT)...	1.7	NB...		S04..	470.
HI....	GA.....		NH4..		SR...	2.8
CA....	HCO3....	256.	NO3..	N		
CA+MG.	HG.....	N	PB...	N		
CL....						

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

RECORD 00053

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0070853

NAME OF SAMPLE SOURCE... PVACD OBSERVATION WELL NO. 4

WELL/SPRING NUMBER..... 13S-20E-13-222

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 13S 020E 13 NE OF NE OF NE
 STATE..... NEW MEXICO 8&M: NEW MEXICO PRINCIPAL
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE.. PERMIAN BASIN
 MAP REFERENCE..... INDIAN BLUFF 1:62500
 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 (8 DIFF).... 20.3

ANALYSIS IN PPM

ISOTOPES (0/00)

AL....	CR.....	0.00115	MG...	38.		
AU....	CU.....	N				
B....	F.....	0.4	NA...	40.		
BA....						
BE....	FE(TOT)...	1.4	NB...		S04..	214.
BI....	GA.....		NH4..		SR...	1.8
CA....	HCO3.....	232.	NO3..	0.837		
CA-MG.	MG.....	N	PB...	N		
CI....						
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..... LEBRE, 1977

RECORD 00054

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0070828

NAME OF SAMPLE SOURCE... SMITH WELL

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 11S 023E 15 NE OF NE OF NE
 STATE..... NEW MEXICO 8&M: NEW MEXICO PRINCIPAL
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE.. PERMIAN BASIN
 LAT/LONG... 33-21.78 N 104-35.78 W

HE.... FE(TOT). N NB... S04.. 540.
 HI.... GA..... NH4... SR... N
 CA.... 140. HCO3.... 0.0032 NO3.. N
 CA+MG. HG..... N PB... N
 CL.... 79.
 CO.... K..... 1.3 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 00056

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0070830

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 11S 024E 23 SW OF SE OF SE LAT/LONG... 33-20.13 N 104-28.32 W
 STATE..... NEW MEXICO 86M: NEW MEXICO PRINCIPAL
 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 ("ROSWELL Limestone" MEMBER) OF THE "SAN ANDRES LIMESTONE".

OTHER SAMPLE INFORMATION.. WELL DRILLED APRIL 1928.

WATER ANALYSIS

PH..... 7.2
 CHARGE IMBALANCE (% DIFF)... 33.5
 ANALYSIS IN PPM

ISOTOPES (0/001)

AL.... CR..... N MG... 103.
 AU.... CU..... N
 B.... F..... N NA... 53.
 BA.... 0.035
 BE.... FE(TOT). 0.1 NB... S04.. 602.
 HI.... GA..... NH4... SR... 2.6
 CA.... 220. HCO3.... 0.0054 NO3.. N
 CA+MG. HG..... N PB... N
 CL.... 108.
 CO.... 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..... LEFEBRE, 1977

RECORD 00057

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0070819

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

TOWNSHIP-RANGE

10S 02SE 23 SE OF NW OF SW
 B&M: NEW MEXICO PRINCIPAL

COORDINATES

LAT/LONG... 33-25.72 N 104-23.42 W

OTHER LOCALITY INFORMATION: ELEV. 1112.5 M (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....	CR..... N	MG...	86.		
AU....	CU..... 0.0135				
B....	F..... N	NA...	1550.		
BA.... 0.053					
BE....	FE(TOT)... 0.21	NB...		S04.. 1300.	
BI....	GA.....	NH4..		SR... 8.5	
CA.... 338.	HCO3.... 7.0	NO3.. N			
CA-MG..	HG..... N	PB... N			
CL.... 3100.					
CO....	K..... 8.5				

ISOTOPES (0/001)

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

RECORD 00058

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0070801

NAME OF SAMPLE SOURCE... T. CORN RANCH HOUSE WINDMILL

WELL/SPRING NUMBER..... 07S-22E-26-131

LOCATION

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

TOWNSHIP-RANGE

07S 022E 26 NW OF SW OF NW
 B&M: NEW MEXICO PRINCIPAL

COORDINATES

LAT/LONG... 33-41.02 N 104-41.93 W

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....	CR..... 0.00145	MG...	102.
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ISOTOPES (0/001)

AI.....	CU..... N				
H.....	F..... 0.6	NA...	350.		
HA..... 0.03					
HE.....	FE(TQT). 4.7	NB...		S04.. 1119.	
HI.....	GA.....	NH4..		SR... 4.7	
CA..... 302.	HCO3.... 151.	NO3..	6.4		
CA+MG.	HG..... N	PB...	0.0135		
CL..... 285.					
CO.....	K..... 2.				
		ZN...	0.075		

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

GEOTHERM FILE ID: 0070818

NAME OF SAMPLE SOURCE... UNNAMED WELL
 WELL/SPRING NUMBER..... 105-24E-22-114

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	105 024E 22	SE OF NW OF NW	LAT/LONG... 33-26.12 N 104-30.12 W
STATE.....	NEW MEXICO			
COUNTY.....	CHAVES			
GEOLOGIC PROVINCE..	PERMIAN BASIN			
MAP REFERENCE.....	ROSWELL NORTH 1124000			
OTHER LOCALITY INFORMATION:	ELEV. 1088.1 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.

WATER ANALYSIS

PH..... 7.
 CHARGE IMBALANCE (% DIFF)... 14.6
 ANALYSIS IN PPM

ISOTOPES (0/00)

AL.....	CR..... N	MG...	99.		
AU.....	CU..... N				
H.....	F..... N	NA...	900.		
HA..... N					
HE.....	FE(TQT). N	NB...		S04.. 992.	
HI.....	GA.....	NH4..		SR... N	
CA..... 331.	HCO3.... 0.0049	NO3.. N			
CA+MG.	HG..... N	PB... N			
CL..... 1225.					
CO.....	K..... 3.3				
		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

RECORD 00060

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0070843

NAME OF SAMPLE SOURCE... UNNAMED WELL

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 11S 025E 21 NW OF SW OF SW SW LAT/LONG... 33-20.20 N 104-24.88 W
 STATE..... NEW MEXICO 8&M: NEW MEXICO PRINCIPAL
 COUNTY..... CHAVES
 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..... 1973/05/00

TEMPERATURE (C)..... 20.

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

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

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

WATER ANALYSIS

PH..... 7.3

CHARGE IMBALANCE (% DIFF)... 78.6

ANALYSIS IN PPM

ISOTOPES (0/00)

AL....	CR..... N	MG...	90.		
AR....	CU..... N				
BA....	F..... N	NA...	390.		
BE....	FE (TOT)...	0.36		NO...	522.
BI....	GA.....			NH4...	3.1
CA....	HCO3.....	0.0037		NO3... N	
CA+MG.	HG..... N			PB... N	
CL....					
CO....	K.....	2.8			
				ZN... N	

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

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... FEBRUARY, 1977

RECORD 00061

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0070855

NAME OF SAMPLE SOURCE... UNNAMED WINDMILL

WELL/SPRING NUMBER..... 14S-25E-08-411

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 14S 025E 08 NE OF NW OF NW SE LAT/LONG... 33-07.02 N 104-27.82 W
 STATE..... NEW MEXICO 8&M: NEW MEXICO PRINCIPAL
 COUNTY..... CHAVES
 GEOLOGIC PROVINCE.. PERMIAN BASIN
 MAP REFERENCE..... HAGERMAN SW 1:24000

OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1093.3 M.

SAMPLE DESCRIPTION AND CONDITIONS

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

TEMPERATURE (C)..... 20.6

DISCHARGE..... L 7.8 L/MIN

PERTINENT LITHOLOGY..... AQUIFER IN SAN ANDRES LESTONE.

WATER ANALYSIS

PH..... 7.2

CHARGE IMBALANCE (% DIFF)... 10.7

ANALYSIS IN PPM

ISOTOPES (0/00)

AL....	CR.....	0.0011	MG...	49.
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AL....		CO.....	0.0018				
BA....		F.....	0.3	NA...	27.		
HA....	0.026						
BE....		FE(TOT)...	0.58	NB...		S04..	J25.
BI....		GA.....		NH4...		SR...	1.9
CA....	121.	HCO3.....	189.	NO3...	6.9		
CA+MG...		HG.....	H	PB...	0.011		
CL....	19.						
CO....		K.....	1.1				
				ZN...	0.112		

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

REFERENCE AND IDENTIFICATION

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

RECORD 00062

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0070854

NAME OF SAMPLE SOURCE... VILLA SOLANO SCHOOL WELL
 WELL/SPRING NUMBER..... 135-24E-24-411

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	135 024E 24	NW OF NW OF SE	LAT/LONG...	33-10.47 N 104-29.95 W
STATE.....	NEW MEXICO				
COUNTY.....	CHAVES				
GEOLOGIC PROVINCE...	PERMIAN BASIN				
MAP REFERENCE.....	DEXTER WEST 1124000				

USM: NEW MEXICO PRINCIPAL

OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1127.8 M.

SAMPLE DESCRIPTION AND CONDITIONS

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

TEMPERATURE (C)..... 22.2

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

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

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

OTHER SAMPLE INFORMATION.. DOMESTIC WELL.

WATER ANALYSIS

PH..... 7.2

CHARGE IMBALANCE (% DIFF)... 191.1

ANALYSIS IN PPM

ISOTOPES (0/000)

AL....		CR.....	H	MG...	46.		
AO....		CO.....	0.0226				
BA....		F.....	9100.	NA...	21.		
HA....	0.01						
BE....		FE(TOT)...	4.6	NB...		S04..	288.
BI....		GA.....		NH4...		SR...	1.9
CA....	127.	HCO3.....	224.	NO3...	0.5		
CA+MG...		HG.....	H	PB...	0.014		
CL....	19.						
CO....		K.....	1.				
				ZN...	0.135		

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

REFERENCE AND IDENTIFICATION

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

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 MG... 208.

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

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

BA.... 0.083

BE.... FE(TOT)... 0.1

BI.... GA.....

CA.... 430. HCO3.... 0.0046

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

ISOTOPES (0/00)

ZN... N

RECORD 00065

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0070848

NAME OF SAMPLE SOURCE... WHEELER WELL

WELL/SPRING NUMBER..... 11S-25E-28-333

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 11S 02SE 28 SW OF SW 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: 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..... MG... 17.

H.... F..... NA... 230.

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

CA.... 770. 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

ISOTOPES (0/00)

S04... 1640.

RECORD 00066

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0070822

NAME OF SAMPLE SOURCE... WINDMILL

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES

11S 020E 15 NW OF NW OF NW

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

STATE..... NEW MEXICO

B&M: NEW MEXICO PRINCIPAL

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..... 1975/01/00

TEMPERATURE (C)..... 20.

DISCHARGE..... L 3.8 L/MIN

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

WATER ANALYSIS

PH..... 7.1

CHARGE IMBALANCE (% DIFF)... 6.5

ANALYSIS IN PPM

AL....

CR..... N

MG... 31.

AU....

CU..... N

H....

F..... N

NA... 32.

BA.... N

BE....

FE (TOT). 2.4

NB...

S04.. 720.

BI....

GA.....

NH4..

SR... 2.

CA.... 220.

HCO3... 0.0034

NO3.. 6.9

CA+MG.

MG..... N

PB... N

CL.... 35.

CO....

K..... 0.5

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 00067

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0070821

NAME OF SAMPLE SOURCE... WINDMILL

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES

11S 020E 15 NW OF NW OF NW

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

STATE..... NEW MEXICO

B&M: NEW MEXICO PRINCIPAL

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..... 1975/07/00

TEMPERATURE (C)..... 22.7

DISCHARGE..... L 3.8 L/MIN

PERTINENT LITHOLOGY..... DEEP UNCONFINED AQUIFER ("ROSWELL 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				
B.....	F.....	5000.	NA...	40.		
BA..... 0.015						
FE.....	FE (TOT)...	6.3	NB...		S04..	550.
HI.....	GA.....		NH4..		SR...	2.2
CA..... 188.	HCO3.....	204.	NO3..	6.3		
CA+MG.	MG..... N		PB...	0.011		
CL..... 46.						

ISOTOPES (0/001)

CO..... K..... 1.3
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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0070820

NAME OF SAMPLE SOURCE... WINDMILL

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	11S 20E 15	NW OF NW OF NW	LAT/LONG...	33-21.67 N 104-56.35 W
STATE.....	NEW MEXICO	8&M: NEW MEXICO	PRINCIPAL		
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 ("ROSWELL 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				
B.....	F.....	N	NA...	55.		
BA..... 0.048						
FE.....	FE (TOT)...	12.	NB...		S04..	700.
HI.....	GA.....		NH4..		SR...	1.7
CA..... 245.	HCO3.....	149.	NO3..	14.		
CA+MG.	MG..... N		PB...	0.0024		
CL..... 52.						

ISOTOPES (0/001)

CO..... K..... 1.3
ZN... 0.094

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

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

GEOTHERM FILE 101 0070823

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

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LOCATION..... 11S-22E-10-11E
COUNTRY..... UNITED STATES 11S 022E 18 NE OF NW OF NW NE LAT/LONG... 33-21.80 N 104-45.78 W
STATE..... NEW MEXICO 06M: NEW MEXICO PRINCIPAL
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).

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

TEMPERATURE (C) 21.
DISCHARGE L 3.8 L/MIN

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

PH.....	0.9
CHARGE BALANCE (% DIFF)...	1.0

ANALYSIS IN PPM

AL.....		CR.....	0.0165	MG...	80.		
AO.....		CU.....	0.0041				
FL.....		F.....	0.7	HA...	80.		
HA.....	0.006						
HE.....		FE(101)...	5.8	NB...		S04..	610.
HI.....		GA.....		NH4...		SR...	2.4
CA.....	218.	HC03.....	199.	N03...	9.5		
CA+AO...		MG.....	N	PB...	0.015		
CL.....	165.						
CO.....		K.....	1.3			ZN...	0.2

OTHER ANALYTICAL DATA... H^+ = 6.9 ppm.

REFERENCE AND IDENTIFICATION

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

GEOTHERM FILE ID: 0070824

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

LOCATION		TOWNSHIP=RANGE	COORDINATES
COUNTRY.....	UNITED STATES	11S 022E 09 NW OF NE OF SW	LAT/LONG... 33-22.30 N 104-43.95 W
STATE.....	NEW MEXICO	B&M: NEW MEXICO PRINCIPAL	
COUNTY.....	CHAVES		
GEOLOGIC PROVINCE..	PERMIAN BASIN		
MAP REFERENCE.....	HONDO RESERVOIR 1124000		
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.

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

PH..... 11

ANALYSIS IN PPM

ISOTOPES (0/00)

AL....	CR..... N	MG...	46.		
AU....	CU..... 0.005				
H....	F..... N	NA...	56.		
HA.... 0.022					
HE....	FE(TOT) 0.05	NB...		504..	430.
HI....	GA.....	NH4..		SR...	2.
CA.... 137.	HCO3... N	NO3.. N			
CA+MG.	HG..... N	PB... N			
CL.... 97.					
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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001636

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	28S 02W 24	SW OF NW OF NE	LAT/LONG... 31-51.6 N 107-01.8 W
STATE.....	NEW MEXICO	B&M: NEW MEXICO PRINCIPAL		
COUNTY.....	DONA ANA			
GEOLOGIC PROVINCE..	26			

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 82C; 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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001641

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	23S 02E 34		LAT/LONG... 32-16.8 N 106-42.3 W
STATE.....	NEW MEXICO	B&M: NEW MEXICO PRINCIPAL		
COUNTY.....	DONA ANA			
GEOLOGIC PROVINCE..	26			

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 1964/05/001 FIVE WELLS IN 0.5 KM2 AREA1 MAX DEPTH 108M1 ANALYSIS FROM WELL 5.
 WATER ANALYSIS

PH..... 8.07

SPECIFIC CONDUCTANCE..... 2400.

TOTAL DISSOLVED SOLIDS... 0 1983.

CHARGE IMBALANCE (% DIFF)... 10.1

ANALYSIS IN PPM

AG....		CO3.....	H	LI...	0.46		
AL....	0.06	CR.....		MG...	32.		
AS....	0.007	CS.....		MN...	0.15		
AU....		CU.....		MU...		SE...	0.0025
B...	0.6	F.....	1.62	NA...	488.	SI02.	68.
BE....		FE(TOT)...	0.1	NB...		S04..	223.
BR....	1.01						
CA....	142.	HCO3....	348.				
CD....		H2S.....		PO4..	0.032		
CL....	980.	I.....	0.035				
CO....		K.....	55.				

ISOTOPES (0/001)

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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0000673

NAME OF SAMPLE SOURCE... RADIUM HOT SPRINGS WELL

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 21S 001W 10 NW OF NE
 STATE..... NEW MEXICO 8&M: NEW MEXICO PRINCIPAL
 COUNTY..... DONA ANA
 GEOLOGIC PROVINCE.. OROGRANDE BASIN

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

MAP REFERENCE..... SAN DIEGO MTN 1162500

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 52.0

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

PH..... 7.13

ALKALINITY..... 414. AS HCO3

TOTAL DISSOLVED SOLIDS... 3857.

CHARGE IMBALANCE (% DIFF)... 0.6

ANALYSIS IN MG/L

AG....		CO3.....		LI...	1.2	S....	
AL....	L 0.002	CR.....		MG...	15.	SB...	
AS....		CS.....	0.1	MN...	L 0.02		
AU....		CU.....	L 0.01				

ISOTOPES (0/001)

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

R.....	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.....	1.2	GE.....		NI...	0.02		
CA.....	120.	HCO3....	414.				
CA+MG.		HG.....	L 0.0001				
CL.....	1650.	I.....	L 0.1				
CO.....		K.....	160.	RB...	1.3	ZN...	0.08

REFERENCE AND IDENTIFICATION

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

RECORD 00074

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001640

NAME OF SAMPLE SOURCE... UNNAMED WELL
 WELL/SPRING NUMBER..... 235-01W-02-432

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 23S 001W 31 NE OF SW OF SE LAT/LONG... 32-15.30 N 106-58.58 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 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

WATER ANALYSIS

PH..... 8.6
 SPECIFIC CONDUCTANCE..... 4640.
 TOTAL DISSOLVED SOLIDS... 2930.

ANALYSIS IN PPM

ISOTOPES (0/001)

AL.....	CR.....	MG...	1.1		
H.....	F.....	NA...		SI02.	19.
HA.....	FE+3....	NA+K.	928.		
HE.....	FE(TOT).	NB...		S04..	927.
CA.....	110.	HCO3....	27.	NO3..	3.3
CL.....	910.				

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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001637

NAME OF SAMPLE SOURCE... UNNAMED WELL
 WELL/SPRING NUMBER..... 26S-03E-02-000

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 26S 003E 02 LAT/LONG... 32-04.8 N 107-36.6 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... DONA ANA
 GEOLOGIC PROVINCE.. 25

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....	CO3....	58.		
H....	F.....		NA...	375.
HE....	FE(TOT)...	11.2	NB...	
CA....	HCO3....	222.	S04..	168.
CL....	401.			
CO....	K.....	15.		

ISOTOPES (0/00)

QUALIFICATION FIELD..... IDS AS RESIDUE.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

RECORD 00076

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001639

NAME OF SAMPLE SOURCE... UNNAMED WELL
 WELL/SPRING NUMBER..... 23S-02W-25-411

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	23S 002W 25	NW OF NW OF SE	LAT/LONG... 32-16.8 N 107-01.2 W
STATE.....	NEW MEXICO	8&M1	NEW MEXICO PRINCIPAL	
COUNTY.....	UONA 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....	CO3....	1.		
AL....	CR.....		MO...	0.3
AS....	CS.....		MN...	0.03
H....	F.....	6.	NA...	460.
HE....	FE(TOT)...	0.02	SI02.	24.
			S04..	610.

ISOTOPES (0/00)

CA.... 23. HCO3.... 47.
 CD.... H2S..... P04.. 0.06
 CL.... 329.
 CO.... K..... 3.2

QUALIFICATION FIELD..... IDS 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-VIE-17-111

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 25S 001E 17 NW OF NW OF NW LAT/LONG... 32-08.4 N 106-52.2 W
 STATE..... NEW MEXICO B&M1 NEW MEXICO PRINCIPAL
 COUNTY..... DONA ANA
 GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... AFTON 1162500

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/07/28
 POINT OF COLLECTION.. DISCHARGE POINT
 TEMPERATURE (C)..... 31.1
 DISCHARGE.....

WATER ANALYSIS

PH..... 8.2
 SPECIFIC CONDUCTANCE..... 778.
 TOTAL DISSOLVED SOLIDS... 0.494.
 CHARGE IMBALANCE (% DIFF)... 3.5

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO3.... N				
AL....	CR....	MG...	4.6		
AS....	CS....	MN...	0.01		
AU....	CU..... 0.006				
B.... 0.06	F..... 0.2	NA...	140.	SI02.	33.
BE....	FE(TOT).. 0.01	NB...		S04..	190.
CA.... 17.	HCO3.... 261.				
CA+MG.	HG..... 0.0001	PH... N			
CD....	H2S.....	P04..	0.06		
CL.... 56.					
CU....	K..... 14.				
		ZN...	0.02		

QUALIFICATION FIELD..... IDS 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... HANES IRRIGATION WELL

WELL/SPRING NUMBER..... 17S-20E-11-433

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 17S 026E 11 SW OF SW OF SE LAT/LONG... 32-50.63 N 104-20.83 W

STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... EDDY
 GEOLOGIC PROVINCE.. PERMIAN BASIN
 MAP REFERENCE..... SPRING LAKE 1124000
 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 ("ROS WELL LESTONE" MEMBER) OF THE "SAN ANDRES LESTONE".

WATER ANALYSIS

PH..... 7.
 CHARGE IMBALANCE (% DIFF)... 5.8

ANALYSIS IN PPM

AL.....	CR.....	0.001	MG...	67.		
AU.....	CU.....	N				
H.....	F.....	0.1	NA...	33.		
HA..... 0.028						
HE.....	FE (TOT)...	0.142	NB...		S04..	525.
HI.....	GA.....		NH4..		SR...	2.9
CA..... 200.	HCO3.....	208.	NO3..	4.2		
CA-MG...	MG.....	N	PB...	0.0083		
CL..... 61.						
CO.....	K.....	1.1				
			ZN...	0.0038		

ISOTOPES 10/001

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

REFERENCE AQUIFERENCEICATION

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

RECORD 00079

GEO THERM SAMPLE FILE

GEO THERM FILE 101 0070869

NAME OF SAMPLE SOURCE... HANES IRRIGATION WELL
 WELL/SPRING NUMBER..... 17S-26E-11-433

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 17S 026E 11 SW OF SW OF SE LAT/LONG... 32-50.63 N 104-20.83 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... EDDY
 GEOLOGIC PROVINCE.. PERMIAN BASIN
 MAP REFERENCE..... SPRING LAKE 1124000
 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 ("ROS WELL LESTONE" MEMBER) OF THE "SAN ANDRES LESTONE".

WATER ANALYSIS

PH..... 7.1
 CHARGE IMBALANCE (% DIFF)... 105.9

ANALYSIS IN PPM

AL.....	CR.....	0.0012	MG...	63.
AU.....	CU.....	0.001		
H.....	F.....	8600.	NA...	31.

ISOTOPES 10/001

BA.... 0.03
 BE.... FE(TOT). 0.1 NB... S04.. 500.
 BI.... GA..... NH4.. SR... 0.8
 CA.... 210. HCO3.... 200. NO3.. 2.5
 CA+MG. HG..... N PB... 0.014
 CL.... 57.
 CO.... K..... 1.5 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

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0070868

NAME OF SAMPLE SOURCE... HANES IRRIGATION WELL
 WELL/SPRING NUMBER..... 17S-26E-11-433

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 17S 026E 11 SW OF SW OF SE LAT/LONG... 32-50.63 N 104-20.83 W
 STATE..... NEW MEXICO R&M: NEW MEXICO PRINCIPAL
 COUNTY..... EDDY

GEOLOGIC PROVINCE... PERMIAN BASIN
 MAP REFERENCE..... SPRING LAKE 1124000

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 ("ROSWELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".

WATER ANALYSIS

P..... 7.3
 CHARGE IMBALANCE (% DIFF)... 46.0

ANALYSIS IN PPM

ISOTOPES (D/001)

AL.... CR..... N MG... 78.
 AU.... CU..... N
 H.... F..... N NA... 110.
 BA.... 0.029
 BE.... FE(TOT). 0.15 NB... S04.. 571.
 BI.... GA..... NH4.. SR... 3.1
 CA.... 226. HCO3.... 0.0036 NO3.. N
 CA+MG. HG..... N PB... N
 CL.... 80.
 CO.... K..... 2.3 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

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0070862

NAME OF SAMPLE SOURCE... HOPE MUNICIPAL WELL
 WELL/SPRING NUMBER..... 17S-23E-10-114

LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... EDUY
 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..... CR..... N MG... 126.
 AU..... CU..... N
 H..... F..... N NA... 135.
 HA..... 0.018
 HE..... FE(TOT). 0.1 NB... 382.
 HI..... GA..... NH4... 1.8
 CA..... 159. HCO3.... 0.0039 NO3.. N
 CA+MG. MG..... N PB... N
 CL..... 40.
 CO..... K..... 4.1 ZN... N
 OTHER ANALYTICAL DATA... R = 7.48 PPM.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

ISOTOPES (0/00)

RECORD 00082

GEOTHERM FILE ID: 0070874

GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... MENELEE IRRIGATION WELL
 WELL/SPRING NUMBER..... 17S-26E-29-111
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... EDUY
 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 3/85. L/MIN
 PERTINENT LITHOLOGY..... DEEP UNCONFINED AQUIFER ("ROSWEEL 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.
 ISOTOPES (0/00)

AL....	CU..... N				
H.....	F..... 0.4	NA...	13.		
HA.... 0.025					
HE....	FE(TOT).. 0.081	NH...		S04.. 430.	
HI....	GA.....	NH4..		SR... 2.1	
CA.... 168.	HCO3.... 208.	N03.. 2.3			
CA+MG.	HG..... N	PB...	0.035		
CL.... N					
CO....	K..... 0.9H				
		ZN...	0.009		

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 00083

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0070871

NAME OF SAMPLE SOURCE... SHARP WELL

WELL/SPRING NUMBER..... 175-26E-14-211

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	175 026E 14	NW OF NW OF NE	LAT/LONG...	32-50.50 N 104-21.03 W
STATE.....	NEW MEXICO	04N	NEW MEXICO PRINCIPAL		
COUNTY.....	EDDY				
GEOLOGIC PROVINCE..	PERMIAN BASIN				
MAP REFERENCE.....	SPRING LAKE 1124000				

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..... R 2271. L/MIN

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

OTHER SAMPLE INFORMATION.. WELL DRILLED 1952.

WATER ANALYSIS

PH..... 7.3

CHARGE IMBALANCE (% DIFF)... 33.9

ANALYSIS IN PPM

ISOTOPES (0/00)

AL....	CR..... N	MO...	116.		
AR....	CU..... N				
CL....	F..... N	NA...	87.		
HA.... 0.037					
HE....	FE(TOT).. 0.15	NH...		S04.. 659.	
HI....	GA.....	NH4..		SR... 3.6	
CA.... 244.	HCO3.... 0.0036	N03.. N			
CA+MG.	HG..... N	PB... N			
CL.... 160.					
CO....	K..... 3.7				
		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 00084

GEOTHERM FILE ID: 0070873

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SHARP WELL
WELL/SPRING NUMBER..... 17S-26E-14-211

LOCATION

LOWESSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 17S 026E 14 NW OF NW OF NE LAT/LONG... 32-50.50 N 104-21.03 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 = 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 ("ROSWELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".

OTHER SAMPLE INFORMATION.. WELL DRILLED 1952.

WATER ANALYSIS

PH..... 6.9
CHARGE IMBALANCE (% DIFF)... 0.0

ANALYSIS IN PPM

AL.....	CR.....	0.001	MG...	107.		
AR.....	CU.....	N				
B.....	F.....	0.1	NA...	74.		
BA.....						
BE.....	FE (TOT)...	0.23	NB...		S04..	669.
BI.....	GA.....		NH4..		SR...	3.5
CA.....	HCO3.....	208.	NO3..	2.5		
CA+MG.	MG.....	N	PB...	0.0253		
CL.....						
CO.....	K.....	1.3				
			ZN...	0.0037		

ISOTOPES (0/001)

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

REFERENCE AND IDENTIFICATION

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

RECORD 00085

GEOTHERM FILE ID: 0070872

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... SHARP WELL
WELL/SPRING NUMBER..... 17S-26E-14-211

LOCATION

LOWESSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 17S 026E 14 NW OF NW OF NE LAT/LONG... 32-50.50 N 104-21.03 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 = 1009.8 M; EAST OF ARTESIA.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1974/04/00
TEMPERATURE (C)..... 23.
WELL DEPTH (M)..... 309.

DISCHARGE..... R 2271. L/MIN
 PERTINENT LITHOLOGY..... DEEP CONFINED AQUIFER ("ROSWELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".
 OTHER SAMPLE INFORMATION.. WELL DRILLED 1952.

WATER ANALYSIS

PH..... 7.1
 CHARGE IMBALANCE (% DIFF)... 25.6
 ANALYSIS IN PPM

ISOTOPES (0/00)

AL.....	CR..... N	MG...	68.		
AU.....	CH..... 0.062				
H.....	F..... N	NA...	57.		
HA..... 0.023					
HE.....	FE(TOT).. 0.05	NB...		S04.. 600.	
HI.....	GA.....	NH4..		SR... 3.	
CA..... 150.	HCO3.... 208.	NO3.. N			
CA+MG.	MG..... N	PB... N			
CL..... 155.					
CO.....	K..... 1.6				
		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 00086

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0070867

NAME OF SAMPLE SOURCE... SULLIVAN WELL
 WELL/SPRING NUMBER..... 175-26E-10-433

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 17S 026E 10 SW OF SW OF SE LAT/LONG... 32-50.60 N 104-22.07 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

COUNTY..... EDU
 GEOLOGIC PROVINCE.. PERMIAN BASIN
 MAP REFERENCE..... SPRING LAKE 1124000

OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1018.6 M.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1975/05/00
 TEMPERATURE (C)..... 23.6
 WELL DEPTH (M)..... 334.

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

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

WATER ANALYSIS

PH..... 6.6
 CHARGE IMBALANCE (% DIFF)... 2.6
 ANALYSIS IN PPM

ISOTOPES (0/00)

AL.....	CR..... 0.00145	MG...	50.		
AU.....	CH..... N				
H.....	F..... 0.3	NA...	19.		
HA..... 0.019					
HE.....	FE(TOT).. 0.11	NB...		S04.. 504.	
HI.....	GA.....	NH4..		SR... 2.6	
CA..... 207.	HCO3.... 203.	NO3.. 2.1			
CA+MG.	MG..... N	PB... 0.011			
CL..... 24.					
CO.....	K..... 1.3				
		ZN... 0.0028			

OTHER ANALYTICAL DATA... H+ = 6.6 PPM

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

GEOTHERM FILE ID: 0070866

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

TOWNSHIP=RANGE

COORDINATES

COUNTRY..... UNITED STATES 175 026E 10 SW OF SW OF SE LAT/LONG... 32-50.60 N 104-22.07 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 = 1018.6 M.

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

ISOLOPES (0/00)

AL....		CH.....	N	MG...	50.		
AU....		CU.....	0.06				
B.....		F.....	N	NA...	22.		
BA....	0.034						
BE....		FE(IQT) ..	0.05	NB...		S04..	530.
BI....		GA.....		NH4...		SR...	2.8
CA....	123.	HCO3.....	222.	NO3..	N		
CA-MG.		HG.....	N	PB...	N		
CL....	49.						
CO....		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..... LEFEVRE, 1977

RECORD 00088

GEOTHERM FILE ID: 0070865

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

LOCATION

TOWNSHIP=RANGE

COORDINATES

COUNTRY.....	UNITED STATES	175 026E 10	SW OF SW OF SE	LAT/LONG... 32-50.60 N 104-22.07 W
STATE.....	NEW MEXICO	B&M1	NEW MEXICO PRINCIPAL	
COUNTY.....	EDDY			
GEOLOGIC PROVINCE..	PERMIAN BASIN			
MAP REFERENCE.....	SPRING LAKE 1:24000			

OTHER LOCALITY INFORMATION: GROUND ELEVATION = 1018.6 M.

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....	CR..... N	MG...	139.		
AU....	CU..... N				
B....	F..... N	NA...	52.		
BA.... 0.027					
BE....	FE(TOT). 0.1	NB...	S04.. 582.		
BI....	GA.....	NH4..	SR... 2.8		
CA.... 210.	HCO3.... 0.0037	NO3.. N			
CA+MG.	MG..... N	PB... N			
CL.... 145.					
CO....	K..... 3.				
		ZN... N			

ISOTOPES (0/00)

OTHER ANALYTICAL DATA... H+ = 7.2 PPM

REFERENCE AND IDENTIFICATION

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

RECORD 00089

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0070861

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

LOCATION

TOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES	16S 026E 29	SW OF SE OF NW	LAT/LONG... 32-53.62 N 104-24.42 W
STATE..... NEW MEXICO	B&M: NEW MEXICO PRINCIPAL		
COUNTY..... EDDY			
GEOLOGIC PROVINCE.. PERMIAN BASIN			
MAP REFERENCE..... ESQUELA 1124000			

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

PH..... 6.9
 CHARGE IMBALANCE (% DIFF)... 7.7

ANALYSIS IN PPM

AL....	CR..... 0.0006	MG...	46.		
AU....	CU..... N				
B....	F..... 0.5	NA...	15.		
BA.... 0.02					
BE....	FE(TOT). 0.2	NB...	S04.. 415.		
BI....	GA.....	NH4..	SR... 2.1		
CA.... 177.	HCO3.... 208.	NO3.. 0.062			
CA+MG.	MG..... N	PB... N			
CL.... 10.					

ISOTOPES (0/00)

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..... LEBEURE, 1977

ZN... 0.052

RECORD 00090

GEO THERM SAMPLE FILE

GEOTHERM FILE 101 0070860

NAME OF SAMPLE SOURCE... UNNAMED WELL

WELL/SPRING NUMBER..... 16S-26E-20-433

LOCATION

COUNTRY..... UNITED STATES

TOWNSHIP-RANGE

STATE..... NEW MEXICO

16S 026E 20

SW OF SW OF SE

COORDINATES

COUNTY..... EDU

B&M: NEW MEXICO PRINCIPAL

LAT/LONG... 32-54.07 N 104-24.17 W

GEOLOGIC PROVINCE.. PERMIAN BASIN

MAP REFERENCE..... ESPUELA 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 ("ROSWELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".

WATER ANALYSIS

P..... 1.

CHARGE IMBALANCE (% DIFF)... 12.3

ANALYSIS IN PPM

AL....

CR..... N

MG... 73.

ISOTOPES 10/001

AR....

CU..... N

B....

F..... 0.5

NA... 21.

BA.... 0.026

BE....

FE(TOT). 0.2

NB...

S04.. 506.

BI....

GA.....

NH4..

SR... 2.5

CA.... 191.

HCO3... 213.

NO3.. 4.3

CA-MG.

HG..... N

PB... 0.0085

CL.... 20.

CO....

K..... 1.1

ZN... 0.022

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

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... LEBEURE, 1977

RECORD 00091

GEO THERM SAMPLE FILE

GEOTHERM FILE 101 0070863

NAME OF SAMPLE SOURCE... UNNAMED WELL

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

LOCATION

COUNTRY..... UNITED STATES

TOWNSHIP-RANGE

STATE..... NEW MEXICO

17S 026E 10

NE OF SW OF SW

COORDINATES

COUNTY..... EDU

B&M: NEW MEXICO PRINCIPAL

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

GEOLOGIC PROVINCE.. PERMIAN BASIN

MAP REFERENCE..... SPRING LAKE 1:24000

OTHER LOCALITY INFORMATION: GROUND ELEVATION=1020.5 M1 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

PH..... 7.3

CHARGE IMBALANCE (% DIFF)... 58.2

ANALYSIS IN PPM

AL.....	CR..... N	MG...	77.
AR.....	CU..... N		
B.....	F..... N	NA...	410.
BA..... 0.029			
BE.....	FE(TOT).. 0.05	NB...	504.. 732.
BI.....	GA.....	NH4...	SR... 3.3
CA..... 233.	HCO3..... 0.0037	NO3.. N	
CA+MG.	HG..... N	PB... N	
CL..... 160.			
CO.....	K..... 3.5		
		ZN... N	

ISOTOPES (0/001)

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

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... LEBRE, 1977

RECORD 00092

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0070864

NAME OF SAMPLE SOURCE... UNNAMED WELL

WELL/SPRING NUMBER..... 175-26E-10-332

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES	17S 026E 10	NE OF SW OF SW	LAT/LONG... 32-50.72 N 104-22.42 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 = 1020.5 M1 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

PH..... 7.4

CHARGE IMBALANCE (% DIFF)... 18.4

ANALYSIS IN PPM

AL.....	CR..... N	MG...	54.
AR.....	CU..... 0.0061		
B.....	F..... N	NA...	33.
BA..... 0.028			
BE.....	FE(TOT).. 0.0001	NB...	504.. 500.

ISOTOPES (0/001)

HI.... GA..... NH4... SR... 2.5
 CA.... 132. HCO3.... 197. NO3... N
 CA+MG. HG..... N PB... N
 CL.... 52. CO.... K..... 1.4
 OTHER ANALYTICAL DATA... H+ = 7.4 PPM. 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 00093

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0070844

NAME OF SAMPLE SOURCE... UNNAMED WELL
 WELL/SPRING NUMBER..... 11S-25E-21-333

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 11S 02SE 21 SW OF SW OF SW LAT/LONG... 33-20.20 N 104-24.88 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

COUNTY..... EDDY
 GEOLOGIC PROVINCE... PERMIAN BASIN
 MAP REFERENCE..... SOUTH SPRING 1124000

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 8700. 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

ISOTOPE (0/00)

AL....	CR..... N	MG... 52.		
AU....	CU..... N			
B....	F..... 7900.	NA... 228.		
BA.... 0.036				
BE....	FE(TOT). 0.66	NB... 375.	S04.. 375.	
BI....	GA.....	NH4.. 2.8	SR... 2.8	
CA.... 159.	HCO3.... 209.	NO3.. 16.		
CA+MG.	HG..... N	PB... 0.1		
CL.... 440.				
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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0070875

NAME OF SAMPLE SOURCE... UNNAMED WELL
 WELL/SPRING NUMBER..... 18S-20E-10-133

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 18S 020E 10 SW OF SW OF NW 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 1124000
 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..... N	MG...	41.
AU....	CU..... N		
B....	F..... N	NA...	28.
BA.... N			
FE....	FE (TOT). N	NB...	504.. 960.
HI....	GA.....	NH4...	SR... 7.0
CA.... 280.	HCO3.... N	NO3..	4.7
CA+MG.	HG..... N	PB... N	
CL.... 28.			
CO....	K..... 0.6		

ISOTOPES (0/00)

ZN... N

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 00095

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0070877

NAME OF SAMPLE SOURCE... VANDIVER WELL
 WELL/SPRING NUMBER..... 18S-26E-18-332

LOCATION

TOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES	18S 026E 18	NE OF SW OF SW	LAT/LONG... 32-44.82 N 104-25.55 W
STATE..... NEW MEXICO			
COUNTY..... EDDY	B&M: NEW MEXICO PRINCIPAL		

GEOLOGIC PROVINCE.. PERMIAN BASIN
 MAP REFERENCE..... DAYTON 1124000

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)... 105.3

ANALYSIS IN PPM

AL....	CR..... 0.0012	MG...	74.
AU....	CU..... N		
B....	F..... 8600.	NA...	22.
BA.... 0.0275			

ISOTOPES (0/00)

HE.... FE(TQT). 0.24 NB... S04.. 625.
 HI.... GA..... NH4.. SR... 3.2
 CA.... 216. HCO3.... 248. NO3..
 CA+MG. HG..... N PB... 1.7
 CL.... 15. CO..... K..... 1.2 0.023
 OTHER ANALYTICAL DATA... H+ = 7.1 PPM. ZN... 0.0076
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LAWSON, WILLIAM A
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEFEBRE, 1977

RECORD 00096

GEOTHERM FILE ID: 0070876

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... VANDIVER WELL
 WELL/SPRING NUMBER..... 18S-26E-17-322

LOCATION

COUNTRY..... UNITED STATES TOWNSHIP-RANGE COORDINATES
 STATE..... NEW MEXICO 18S 026E 17 NE OF NE OF SW LAT/LONG... 32-44.82 N 104-24.27 W
 COUNTY..... EDDY B&M: NEW MEXICO PRINCIPAL
 GEOLOGIC PROVINCE.. PERMIAN BASIN
 MAP REFERENCE..... DAYTON 1124000

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

ISOTOPES (0/00)

AL.... CR..... 0.0006 MG... 81.
 AU.... CU..... N
 H.... F..... 7200. NA... 37.
 BA.... 0.025
 HE.... FE(TQT). 0.21 NB... S04.. 712.
 HI.... GA..... NH4.. SR... 3.4
 CA.... 251. HCO3.... 229. NO3.. 25.
 CA+MG. HG..... N PB... 0.026
 CL.... 57. CO..... K..... 1.3
 OTHER ANALYTICAL DATA... H+ = 7.1 PPM. ZN... 0.0048
 REFERENCE AND IDENTIFICATION

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

RECORD 00097

GEOTHERM FILE ID: 0070878

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... VANDIVER WELL
 WELL/SPRING NUMBER..... 18S-26E-18-411

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 18S 026E 18 NW OF NW OF SE LAT/LONG... 32-44.65 N 104-25.17 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... EDDY
 GEOLOGIC PROVINCE... PERMIAN BASIN
 MAP REFERENCE..... DAYTON 1124000
 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 ("ROSWELL LIMESTONE" MEMBER) OF THE "SAN ANDRES LIMESTONE".
 WATER ANALYSIS

PH..... 7.
 CHARGE IMBALANCE (% DIFF)... 7.9

ANALYSIS IN PPM

AL....	CR..... N	MG...	59.		
AU....	CU..... N				
B....	F..... 0.4	NA...	43.		
BA.... 0.024					
BE....	FE(TOT)... 0.26	NB...		S04..	634.
BI....	GA.....	NH4..		SR...	2.9
CA.... 206.	HC03..... 241.	N03..	2.3		
CA-MG.	MG..... N	PR...	0.0083		
CL.... 47.					
CO....	K..... 1.1				
		ZN...	0.0031		

ISOTOPES (0/00)

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

REFERENCE AND IDENTIFICATION

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

RECORD 00098

GEOTERM. SAMPLE FILE

GEOTERM FILE 101 0001807

NAME OF SAMPLE SOURCE... ALLEN SPRINGS
 WELL/SPRING NUMBER..... 16S-15W-26-421

LOCATION

TOWNSHIP-RANGE

COORDINATES

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 1124000

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... JW-1

TEMPERATURE (C)..... 25.6

WATER ANALYSIS

PH..... 8.12
 TOTAL DISSOLVED SOLIDS... 492.
 CHARGE IMBALANCE (% DIFF)... 0.9

ANALYSIS IN PPM

AG.... L 0.03	CO3..... N	LI...	0.02		
AL.... L 2.5	CR..... L 0.1	MG...	38.2	SB...	L 0.05
AS.... 0.001	CS.....	MN... L	0.07		
AU....	CU..... L 0.1	MO... L	0.5	SE...	0.003
B.... 0.00	F..... 1.05	NA...	8.3	SI02.	14.5
BA.... L 0.7					

ISOTOPES (0/00)

HF....	FE (TOT). L 0.1	NO...	S04..	48.
HI....	GA.....	NI4..	SR...	0.12
HR.... 0.54	GE.....	NI... L 0.03		
CA.... 77.8	HCO3.... 389.3	NO3.. Q 5.23		
CA+MG.	HG..... 0.0012	PB... 0.027		
CO.... L 0.01	H2S..... L 0.1			
CL.... 2.5				
CO.... L 0.015	K..... 1.6			
				ZN... 0.17

OTHER ANALYTICAL DATA... P = 0.02 PPMI CA, MG, NA, K, CO3, HCO3, CL, AND S04 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 00099

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001632

NAME OF SAMPLE SOURCE... APACHE TEJO WARM SPRINGS - WELL 4
 WELL/SPRING NUMBER..... 19S-12W-19-300

LOCATION

COUNTRY.....	UNITED STATES	TOWNSHIP=RANGE	COORDINATES
STATE.....	NEW MEXICO	19S 012W 19 SW	LAT/LONG... 32-38.6 N 108-07.7 W
COUNTY.....	GRANT	NAME NEW MEXICO PRINCIPAL	
GEOLOGIC PROVINCE..	25		
MAP REFERENCE.....	MURLEY WEST 1:24000		

OTHER LOCALITY INFORMATION: EXACT LOCATION IN SECTION 19 UNCERTAIN.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965

TEMPERATURE (C)..... 35.

DISCHARGE.....

PERTINENT LITHOLOGY..... ALLUVIAL SAND AND GRAVEL: 0 TO -157 FT; "MAGDALENA GROUP" (LIMESTONE AND SHALE): -157 FT TO -776 FT; "LAKE VALLEY LIMESTONE": -776 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. S04-1972 ANAL.

WATER ANALYSIS

PH..... 8.43

SPECIFIC CONDUCTANCE..... 520.

TOTAL DISSOLVED SOLIDS... 370.

CHARGE BALANCE (B DIFF)... 8.5

ANALYSIS IN PPM

AG.... L 0.02	CO3.... 3.	LI... 0.1		
AL.... 0	CR..... L 0.01	MG... 17.		
AS.... 0.011	CS.....	MN... 0.31		
AR....	CU..... 0.02	MO... 0.028		
B.... 0.04	F..... 2.7	NA... 48.	SE... 0.028	
BE....	FE (TOT). N	NB... 70.	S102.	
BR.... 0.72	GE.....	NI... L 0.05	S04..	
CA.... 39.	HCO3.... 216.			
CA+MG.	HG..... L 0.0002	PB... L 0.05		
CO.... L 0.005	H2S.....	PO4.. N		
CL.... 19.	I..... 0.019			
CO....	K..... 4.6			
				ZN... 0.11

ISOTOPES 10/001

OTHER ANALYTICAL DATA... NO2 = 0; HEAVY METALS (CU, CO, 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

RECORD 00100

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0001809

NAME OF SAMPLE SOURCE... ASH SPRING
 LOCATION

TOWNSHIP-RANGE

COORDINATES

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

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

RECORD 00101

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0001620

NAME OF SAMPLE SOURCE... CLIFF WARM SPRING

WELL/SPRING NUMBER..... 15S-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..... CO3..... 14.
 CA..... HCO3..... 123.

CL..... 5.2

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

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

RECORD 00102

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0002957

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

TOWNSHIP-RANGE

13S 01W 10 NE
 B&M: NEW MEXICO PRINCIPAL

COORDINATES

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

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 36.

WATER ANALYSIS

PH..... 8.27
 ALKALINITY..... 89. AS HCO₃
 TOTAL DISSOLVED SOLIDS... 385.
 CHARGE IMBALANCE (% DIFF)... 0.2

ANALYSIS IN MG/L

AG.....	CO ₃	LI... 0.17	S....
AL.....	CR.....	MG... 0.6	SB....
AS.....	CS..... L 0.1	MN... L 0.02	
AU.....	CU..... L 0.01		
B..... 0.12	F..... 6.1	NA... 100.	SiO ₂ 62.
BE.....	FE(TOT). L 0.02	NB...	SO ₄ .. 27.
BR.....	GE.....	NI... L 0.02	
CA..... 9.7	HCO ₃ 89.		
CL..... 92.			
CO.....	K..... 1.5	RB... L 0.02	ZN... L 0.01

ISOTOPES (0/001)

DEL D OF WATER..... -80.5
 DEL O(18) OF WATER... -10.75

QUALIFICATION FIELD..... TEMP TAKEN AFTER COLLECTION, THERMISTOR MALFUNCTION AT SPRING DID NOT ALLOW IN-SPRING TEMP TO BE DETERMINED.

REFERENCE AND IDENTIFICATION

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

RECORD 00103

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... FAYWOOD HOT SPRINGS
 WELL/SPRING NUMBER..... 20S-11W-20-243

GEOTHERM FILE ID: 0001634

LOCATION

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

TOWNSHIP-RANGE

20S 01W 20 SW OF SE OF NE
 B&M: NEW MEXICO PRINCIPAL

COORDINATES

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

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

PH..... 7.1
 SPECIFIC CONDUCTANCE..... 603.
 CHARGE IMBALANCE (% DIFF)... 6.4
 ANALYSIS IN PPM

ISOTOPES (0/001)

AG....		CO3.....		LI....	0.13				
AL....		CR.....	0.0117	MG....	7.4				
AS....		CS.....		MN....	N				
AU....		CU.....	0.0205						
B.....	0.07	F.....	5.9	NA....	79.	SI02.	41.		
BE....		FE(TOT).	0.06	NB....		S04..	49.		
BR....	0.1							TRITIUM (T.U.).....	0 70.
CA....	34.	HC03....	277.						
CA+MG.		HG..... L	0.001	PB....	0.007				
CD....	0.00014	H2S.....		P04..	0.03				
CL....	17.								
CO....		K.....	7.6						
				ZN....	0.01				

OTHER ANALYTICAL DATA... MOLYBDENUM = ABOUT 20 PPB; RADON-222 = 5600 PICO-CURIES/LITRE.

QUALIFICATION FIELD.... DISCHARGE ESTIMATED 1954/11/11; TRITIUM MEASUREMENT PLUS OR MINUS 8 UNITS, COLLECTED 1969/12/29; A TRITIUM SAMPLE COLLECTED 1959/05/01 MEASURED 3.2 UNITS, PLUS OR MINUS .3 UNITS.

REFERENCE AND IDENTIFICATION

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

RECORD 00104

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0000677

NAME OF SAMPLE SOURCE... GILA HOT SPRINGS

WELL/SPRING NUMBER..... 135-13W-05-210

WATER NUMBER..... 30

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 135 013W 05 NW OF NE

STATE..... NEW MEXICO

COUNTY..... GRANT

GEOLOGIC PROVINCE.. 25

MAP REFERENCE..... GILA HOT SPRINGS 1124000

LAT/LONG... 33-11.94 N 108-12.54 W

UTM ZONE... 12

NORTHING... 3676762.

761020.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 68.0

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

WATER ANALYSIS

PH..... 8.13

ALKALINITY..... 101. AS HC03

TOTAL DISSOLVED SOLIDS... 468.

CHARGE IMBALANCE (% DIFF)... 0.1

ANALYSIS IN MG/L

AG....		CO3.....	0	LI....	0.23	S....	
AL....	0.005	CR.....		MG....	L 0.1	SB...	
AS....		CS.....	L 0.1	MN....	L 0.02		
AU....		CU.....	L 0.01				
B.....	0.1	F.....	9.1	NA....	125.	SI02.	74.
BE....		FE(TOT).	L 0.02	NB....		S04..	45.
BR....		GA.....		NH4...	L 0.1		
CA....	9.9	HC03....	101.	NI....	L 0.02		
CA+MG.		HG.....	L 0.0001				
CL....	105.						
CO....		K.....	3.0	RB....	0.02	ZN....	L 0.01

ISOTOPES (007001)

DEL D OF WATER..... -82.8
 DEL O(18) OF WATER... -11.03

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH4... L 0.1

ISOTOPES (00701)

C2H6.
CO2... 0

N2... 86.
O2... 0 7.5

OTHER ANALYTICAL DATA... SOME GAS.

QUALIFICATION FIELD.... GAS ANAL: O2 = 02 • ARI NO DATA ON CO2 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

GEOTHERM FILE ID: 0001661

NAME OF SAMPLE SOURCE... GILA HOT SPRINGS

WELL/SPRING NUMBER..... 13S-13W-05-241

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 13S 013W 05 NW OF SE OF NE

STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

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.

WATER ANALYSIS

PH..... 8.6

SPECIFIC CONDUCTANCE..... 620.

CHARGE IMBALANCE (% DIFF)... 4.5

ANALYSIS IN PPM

ISOTOPES (0/00)

AG.... CO3..... 21.

AL.... 0.03 CR..... MG... 0.06

B.... F..... 8.5 NA... 148.

HE.... FE(TOT)... NB... S102. 53.

CA.... 20. HCO3.... 104. S04.. 97.

CL.... 106.

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

GEOTHERM FILE ID: 0002956

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

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

COUNTY..... GRANT

GEOLOGIC PROVINCE.. 25

LAT/LONG... 33-10. N 108-11. W

UTM ZONE... +12

NORTHING... 3673106.

762674.

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 43.0

PERTINENT LITHOLOGY..... TUFF-BRECCIA BEDROCK.

OTHER SAMPLE INFORMATION.. SEEP SPRING.

WATER ANALYSIS

PH..... 7.88
 ALKALINITY..... 130. AS HCO3
 TOTAL DISSOLVED SOLIDS.... 558.
 CHARGE IMBALANCE (% DIFF)... 1.5
 ANALYSIS IN MG/L

AG....	CO3.....	LI... 0.25	S....		
AL....	CR.....	MG... 0.7	SB...		
AS....	CS..... L 0.1	MN... L 0.02			
AU....	CU..... L 0.01				
H.... 0.14	F..... 8.9	NA... 145.	SI02.. 72.		
.....	FE(TOT). L 0.02	NB...	SO4... 67.		
.....	GE.....	NI... L 0.02			
CA.... 16.	HCO3.... 130.				
CA-MG.	HG..... L 0.0001				
CL.... 120.					
CO....	K..... 2.7	RB... 0.02	ZN... L 0.01		

ISOTOPES 10Z001

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

GEOTHERM FILE ID: 0001811

NAME OF SAMPLE SOURCE... GOAT CAMP SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 32-49.80 N 109-02.82 W

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... GRANT

GEOLOGIC PROVINCE.. 25

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

GEOTHERM FILE ID: 0001816

NAME OF SAMPLE SOURCE... HOT SPRING

WELL/SPRING NUMBER..... 12S-14W-24-441

LOCATION

TOWNSHIP-RANGE

COORDINATES

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

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... GRANT

GEOLOGIC PROVINCE.. 25

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 IMBALANCE (% DIFF)... 6.8

ANALYSIS IN PPM

AG.... L 0.07	CO3.... N	LI... 0.43	
AL.... L 1.1	CR..... L 0.1	MG... 0.1	SB... L 0.6
AS.... 0.006	CS.....	MN... L 0.063	
AT....	CU..... L 0.12	MO... L 0.45	SE... 0.006
B.... 0.07	F..... 9.5	NA... 151.5	SI02. 85.89
BA.... L 0.2			
BE....	FE(TOT). 0.22	NB... 0.05	S04.. 118.
BI....	GA.....	NH4.. 0.05	SR... 0.03
BR.... N	GE.....	NI... L 0.13	
CA.... 15.4	HCO3.... 131.1	NO3.. Q 0.19	
CA+MG.	HG..... 0.0005	PB... 0.021	
CD.... L 0.02			
CL.... 104.3			
CO.... L 0.018	K..... 3.5		
		ZN... L 0.028	

ISOTOPES (0/00)

OTHER ANALYTICAL DATA... P = 0.02 PPM; CA, MG, NA, K, CO3, HCO3, CL, AND S04 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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001633

NAME OF SAMPLE SOURCE... KENNECOTT WARM SPRINGS (WELLS)

WELL/SPRING NUMBER..... 20S-11W-18-310

LOCATION

COUNTRY.....	UNITED STATES	TOWNSHIP=RANGE	
STATE.....	NEW MEXICO	20S 01W 18	NW OF SW
COUNTY.....	GRANT	86M1	NEW MEXICO PRINCIPAL
GEOLOGIC PROVINCE..	25		

COORDINATES

LAT/LONG... 32-33.7 N 108-01.6 W

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.....	MG... 13.	
B.... 0.23	F..... 2.2	NA... 40.	SI02. 50.
CA.... 37.	HCO3.... 205.		
CL.... 14.			
CO....	K..... 5.2		

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

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

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... SUMMERS, 1976

RECORD 00110

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001660

NAME OF SAMPLE SOURCE... LYONS LODGE HOT SPRINGS

WELL/SPRING NUMBER..... 13S-13W-10-121

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 13S 013W 10 NW OF NE OF NW LAT/LONG... 33-11.5 N 108-10.8 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... GRANT
 GEOLOGIC PROVINCE.. 25

MAP REFERENCE..... GILA HOT SPRINGS 1124000

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

ISOTOPES (0/001)

AG....	CO3....	1.			
AL....	CR....		MG... 0.1		
H.... 1.7	F....	3.4	NA... 105.	SI02.	SB.
CA.... 10.	HCO3....	101.			
CL.... 67.					
CO....	K.....	2.0			

REFERENCE AND IDENTIFICATION

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

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... SUMMERS, 1976

RECORD 00111

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001808

NAME OF SAMPLE SOURCE... MANGAS SPRINGS

WELL/SPRING NUMBER..... 17S-16W-08-441

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 17S 016W 08 E1/2 OF SE OF NE LAT/LONG... 32-50.58 N 108-30.67 W
 STATE..... NEW MEXICO
 COUNTY..... GRANT
 GEOLOGIC PROVINCE.. 25

MAP REFERENCE..... CLIFF 1162500

OTHER LOCALITY INFORMATION: SOUTH OF "MANGAS SPRINGS" JUST NORTH OF BM 4771.

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... GILA 29

TEMPERATURE (C)..... 27.

WATER ANALYSIS

PH..... 8.

TOTAL DISSOLVED SOLIDS... 544.

CHARGE IMBALANCE (% DIFF)... 3.5

ANALYSIS IN PPM

ISOTOPES (0/001)

AG.... 1.0.00	CO3.... 0	LI... 0.02
AL.... 1.1.	CR.....	MG... 16.5

AS....	0.004				
AIJ....		CO.....	L 0.1	MO...	SE... 0.003
H.....	0.14	F.....	0.49	NA...	SI02. 57.75
HA....	L 0.2				
HE....		FE(TOT)...	L 0.15	NB...	S04.. 35.
HI....		GA.....		NH4..	0.05
CA....	87.	HCO3....	390.5	NO3..	Q 0.89
CA+MG.		HG.....	0.0006		
CO....		H2S.....	L 0.1	P04..	Q 0.23
CL....	18.8				
CO....		K.....	7.8		
				ZN... L 0.02	

OTHER ANALYTICAL DATA... CA, MG, NA, K, CO3, HCO3, 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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001635

NAME OF SAMPLE SOURCE... MIMBRES HOT SPRINGS

WELL/SPRING NUMBER..... 1HS-01W-13-110

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	18S 01W 13	NW OF NW
STATE.....	NEW MEXICO	B&M: NEW MEXICO PRINCIPAL	
COUNTY.....	GRANT		
GEOLOGIC PROVINCE..	Z5		
MAP REFERENCE.....	DWYER 1162500		

LAT/LONG... 32-44.9 N 107-50.2 W

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.

RHYOLITE TUFF

WATER ANALYSIS

PH..... 8.3

SPECIFIC CONDUCTANCE..... 450.

CHARGE IMBALANCE (% DIFF)... 4.5

ANALYSIS IN PPM

ISOTOPIES (0/00)

AL....		CR.....		MG...	0.6
H.....	0.05	F.....	18.	NA...	94.
HE....		FE(TOT)...		NB...	SI02. 56.
CA....	3.3	HCO3....	107.		S04.. 65.
CL....	17.				
CO....		K.....	1.3		

REFERENCE AND IDENTIFICATION

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

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... SUMMERS, 1976

RECORD 00113

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001619

NAME OF SAMPLE SOURCE... RIVERSIDE STORE WELL

WELL/SPRING NUMBER..... 16S-17W-04-242

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 16S 017W 09 NE OF SE OF NE LAT/LONG... 32-55.8 N 108-36.0 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... GRANT
 GEOLOGIC PROVINCE.. 25
 MAP REFERENCE..... CLIFF 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1955/06/06
 TEMPERATURE (C)..... 30.
 WELL DEPTH (M)..... 11.
 DISCHARGE.....

WATER ANALYSIS

PH..... 7.9
 SPECIFIC CONDUCTANCE..... 551.
 ANALYSIS IN PPM

ISOTOPES (0/00)

AL....	CR.....	MG... 1.0		
H.....	F..... 8.0	NA...	SI02. 48.	
HE....	FE(TOT).	NB...	S04.. 51.	
CA.... 7.5	HC03.... 241.			
CL.... 16.				

REFERENCE AND IDENTIFICATION

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

RECORD 00114

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001618

NAME OF SAMPLE SOURCE... SPRING CANYON WARM SPRING
 WELL/SPRING NUMBER..... 16S-17W-34-112

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 16S 017W 34 NE OF NE OF NW LAT/LONG... 32-56.4 N 108-40.8 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... GRANT
 GEOLOGIC PROVINCE.. 25
 MAP REFERENCE..... CLIFF 1162500
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1955/04/26
 TEMPERATURE (C)..... 29.
 DISCHARGE.....

WATER ANALYSIS

PH..... 7.9
 SPECIFIC CONDUCTANCE..... 472.
 ANALYSIS IN PPM

ISOTOPES (0/00)

AL....	CR.....	MG... 3.0		
H.....	F..... 6.0	NA...	SI02. 32.	
HE....	FE(TOT).	NB...	S04.. 38.	
CA.... 18.	HC03.... 232.			
CL.... 8.5				

REFERENCE AND IDENTIFICATION

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

RECORD 00115

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001817

NAME OF SAMPLE SOURCE... TURKEY CREEK - UNNAMED HOT SPRING
WELL/SPRING NUMBER..... 14S-16W-03-443
WARNING NUMBER..... 29

LOCATION
COUNTRY..... UNITED STATES TOWNSHIP-RANGE
STATE..... NEW MEXICO 14S 016W 03 SE OF SE OF SW COORDINATES
COUNTY..... GRANT LAT/LONG... 33-06.48 N 108-28.98 W
GEOLOGIC PROVINCE... 25
MAP REFERENCE..... CANYON HILL 1124000

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

ISOTOPES (U/001)

AG.... L 0.06	CO3.... N	LI... 0.06	
AL.... L 1.	CR.....	MG... 1.6	
AS.... 0.907			
AU....	CU..... L 0.1	MO... SE... L 0.002	
B.... 0.12	F..... 9.45	NA... 61.1	SI02... 67.65
BA.... L 0.2			
BE....	FE(TOT)... 0.31	NB... S04... 64.8	
BT....	GA.....	NH4... L 0.05	
CA.... 6.8	HCO3.... 94.	NO3... 0 0.72	
CA+MG.	HG..... 0.0004		
CD....	H2S.... L 0.1	PO4... 0 0.01	
CL.... 4.2			
CO....	K..... 1.5	ZN... L 0.02	

OTHER ANALYTICAL DATA... CA, MG, NA, K, CO3, HCO3, CL, AND S04 IN MG/L.

QUALIFICATION FIELD.... NO3 = NO3, NO21 PO4 = P.

REFERENCE AND IDENTIFICATION

COMPILED BY..... LAWSON, WILLIAM A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... SHAMBERG AND OTHERS, 1977

RECORD 00116

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001624

NAME OF SAMPLE SOURCE... UNNAMED
WELL/SPRING NUMBER..... 13S-13W-10-200

LOCATION
COUNTRY..... UNITED STATES TOWNSHIP-RANGE
STATE..... NEW MEXICO 13S 013W 10 NE COORDINATES
COUNTY..... GRANT 08M: NEW MEXICO PRINCIPAL LAT/LONG... 33-11.5 N 108-10.7 W
GEOLOGIC PROVINCE... BASIN-AND-RANGE
MAP REFERENCE..... GILA HOT SPRINGS 1124000

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

ANALYSIS IN PPM

AL....	CR.....	MG...	0.6		
BA....	F.....	NA...	116.	SI02.	64.
BE....	FE(10F)...	NO...		SO4..	31.
CA.... 4.7	HCO3....		99.		
CL.... 193.					
CO....	K.....		1.5		

ISOTOPES 102001

REFERENCE AND IDENTIFICATION

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

RECORD 00117

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0001622

NAME OF SAMPLE SOURCE... UNNAMED

WELL/SPRING NUMBER..... 135-13W-20-430

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 135 013W 20 SW OF SE
 STATE..... NEW MEXICO HAM: NEW MEXICO PRINCIPAL
 COUNTY..... GRANT
 GEOLOGIC PROVINCE.. 25

LAT/LONG... 33-09.7 N 108-12.5 W

MAP REFERENCE..... GILA HOT SPRINGS 1124000

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

ISOTOPES 102001

AL....	CR.....	MG...	0.35		
BA.... 0.20	F.....	NA...	150.	SI02.	70.
CA.... 18.	HCO3....		112.		
CO....	K.....		3.9		

REFERENCE AND IDENTIFICATION

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

RECORD 00118

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0001623

NAME OF SAMPLE SOURCE... UNNAMED

WELL/SPRING NUMBER..... 135-13W-10-200

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 135 013W 10 NE
 STATE..... NEW MEXICO HAM: NEW MEXICO PRINCIPAL
 COUNTY..... GRANT
 GEOLOGIC PROVINCE.. 25

LAT/LONG... 33-11.5 N 108-10.7 W

MAP REFERENCE..... GILA HOT SPRINGS 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1966/02/22

TEMPERATURE (C)..... 41.

DISCHARGE..... 117. L/MIN

PERTINENT LITHOLOGY..... RHYOLITE TUFF
 OTHER SAMPLE INFORMATION.. DISCHARGE FROM FRACTURES IN TUFF ABOUT 0.8 KM EAST OF LYONS LODGE HOT SPRINGS
 WATER ANALYSIS

PH..... 8.45

SPECIFIC CONDUCTANCE..... 560.

ANALYSIS IN PP4

ISOTOPES (0/00)

AG.....	CO3.....	2.			
AL.....	CR.....		MG... 0.2		
H..... 0.33	F.....	3.6	NA... 111.	SI02.	74.
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

RECORD 00119

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0001810

NAME OF SAMPLE SOURCE... UNNAMED SPRING

LOCATION..... TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 32-53.94 N 109-02.10 W

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

RECORD 00120

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0001621

NAME OF SAMPLE SOURCE... WELL

WELL/SPRING NUMBER..... 15S-17W-27-111

LOCATION..... TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 32-58.8 N 108-35.4 W

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

PH..... 8.5

SPECIFIC CONDUCTANCE..... 610.

ANALYSIS IN PPM

ISOTOPES (0/00)

AG.....	CO3.....	4.			
H..... 0.75	F.....	3.4	NA... 153.	SI02.	44.
CA..... 2.0	HCO3.....	177.			

CL.... 24.
 CO.... R..... 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 19S 012W 12
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... GRANT
 GEOLOGIC PROVINCE.. 25
 MAP REFERENCE..... MURLEY 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

GEOTHERM FILE ID: 0001631

COORDINATES
 LAT/LONG... 32-40.8 N 108-02.4 W

RECORD 00122

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... LIGHTNING BUCK AREA - HOT WELLS
 WELL/SPRING NUMBER..... 25S-19W-07-343
 LOCATION
 COUNTRY..... UNITED STATES 25S 019W 07 SW OF SE OF SW SW
 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 2 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.... 0.1
 AL....
 AS....
 BA....
 BE....
 CA.... 21.
 CO3.... 0.3
 CR....
 CS....
 F.... 9.9
 FE (TOT)... 0.07
 HCO3.... 145.
 MG.... 0.7
 MN.... N
 NA.... 324.
 NO....
 S102... 158.
 S04... 414.
 ISOTOPES (0/00)

GEOTHERM FILE ID: 0000669

COORDINATES
 LAT/LONG... 32-08.70 N 108-50.00 W
 UTM ZONE... +12
 NORTHING... 3558007.
 704364.

CL..... 83.
 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 SAMPLE FILE
 NAME OF SAMPLE SOURCE... WELL
 WELL/SPRING NUMBER..... 22S-21W-03-312
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... HIDALGO
 GEOLOGIC PROVINCE.. 25
 MAP REFERENCE..... SUMMIT 1124000
 COORDINATES
 LAT/LONG... 32-25.8 N 108-58.8 W
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1966/06/20
 TEMPERATURE (C)..... 31.
 DISCHARGE.....
 OTHER SAMPLE INFORMATION.. MAX. REPORTED TEMPERATURE 35 C
 WATER ANALYSIS
 P1..... 7.8
 SPECIFIC CONDUCTANCE..... 1590.
 ANALYSIS IN PPM
 AL.... CH..... MG... 6.9
 H.... F..... NA... 91.
 CA.... 265. HCO3.... 431.
 CL.... 102.
 CO..... K..... 2.1
 REFERENCE AND IDENTIFICATION

GEOTHERM FILE ID: 0001617

ISOTOPES 10/001

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

RECORD 00124

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... TROUT FARM
 WELL/SPRING NUMBER..... 10S-17E-29-130
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... LINCOLN
 MAP REFERENCE..... LINCOLN 1162500
 COORDINATES
 LAT/LONG... 32-25.8 N 108-58.8 W
 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
 P1..... 7.4
 CHARGE IMBALANCE (% DIFF)... 45.6

GEOTHERM FILE ID: 0070815

ANALYSIS IN PPM

AL....	CR.....	MG...	16.		
H.....	F.....	NA...	12.		
BE....	FE(TOT).	NB...		S04..	197.
HI....	GA.....	NH4..		SR...	0.82
CA.... 106.	HC03.... 0.0032	NO3..	6.5		
CL.... 14.					
CO....	K..... 0.4				

ISOTOPES (0/00)

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 SAMPLE FILE

GEOTHERM FILE ID: 0001630

NAME OF SAMPLE SOURCE... WELL (SOUTH OF CARNE)
 WELL/SPRING NUMBER..... 24S-07W-05-100

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 24S 007W 05 NW
 STATE..... NEW MEXICO 86M1 NEW MEXICO PRINCIPAL
 COUNTY..... LUNA

LAT/LONG... 32-15.20 N 107-34.83 W

GEOLOGIC PROVINCE.. 2S
 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....	CO3..... 46.	MG...	0.6		
AL....	CR.....	NA...		S102.	73.
H.....	F..... 1.7	NB...		S04..	34.
BE....	FE(TOT).	NO3..	3.2		
CA.... 4.9	HC03.... 0.23				
CL.... 9.					

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

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

RECORD 00126

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0001676

NAME OF SAMPLE SOURCE... ARTESIAN WELL

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 17N 017W
 STATE..... NEW MEXICO 86M1 NEW MEXICO PRINCIPAL
 COUNTY..... MCKINLEY

LAT/LONG... 35-43.13 N 108-41.4 W

GEOLOGIC PROVINCE.. 2H
 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 (6 DIFF)... 3.4
 ANALYSIS IN PPM

ISOTOPES 10/001

AG....	CO3....	LI...	0.024		
AL....	CR.....	MG...	0.12		
AS....	CS.....	MN...	0.002		
B.... 0.11	F..... 0.42	NA...	94.	SI02.	13.03
BA.... 0.22H					
BE....	FE(TOT).. 0.034	NB...		SO4..	30.21
BI....	GA.....	NH4..		SR...	0.046
CA.... 1.21	HCO3.... 219.6				
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

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... CHURCH ROCK SCHOOL WELL
 LOCATION
 COUNTRY..... UNITED STATES 17N 018W
 STATE..... NEW MEXICO B&M NEW MEXICO PRINCIPAL
 COUNTY..... MCKINLEY
 GEOLOGIC PROVINCE.. SAN JUAN BASIN
 MAP REFERENCE..... CHURCH ROCK 1324000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

GEO THERM FILE ID: 0001667

COORDINATES

LAT/LONG... 35-33.0 N 108-36.6 W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1979/09
 TEMPERATURE (C)..... 20.
 DISCHARGE..... L/MIN
 WATER ANALYSIS

CHARGE IMBALANCE (6 DIFF)... 29.5
 ANALYSIS IN PPM

ISOTOPES 10/001

AG....	CO3....	LI...	0.21		
AL....	CR.....	MG...	25.1		
AS....	CS.....	MN...	0.11		
B.... 0.043	F..... 1.69	NA...	172.	SI02.	2.9
BA.... 0.016					
BE....	FE(TOT)..	NB...		SO4..	635.
BI....	GA.....	NH4..		SR...	0.46
CA.... 40.19	HCO3.... 114.68				
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

RECORD 00128

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0001626

NAME OF SAMPLE SOURCE... PURE OIL NAVAJO NO 1
 WELL/SPRING NUMBER..... 19N-17W-29-000
 LOCATION
 COUNTRY..... UNITED STATES 19N 017W 29
 STATE..... NEW MEXICO 8&M: NEW MEXICO PRINCIPAL
 COUNTY..... MCKINLEY
 GEOLOGIC PROVINCE.. SAN JUAN BASIN
 MAP REFERENCE..... CHUSKA LAKE 1124000

COORDINATES

LAT/LONG... 35-51.08 N 108-40.10 W

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 (S DIFF)... 1.0

ANALYSIS IN PPM

AG....		CO3.....	3.				
AL....	0.03	CR.....		MG...	0.1		
AS....		CS.....		MN...	N		
B....		F.....	0.4	NA...	132.	SI02..	22.
BR....		FE(TOT)...	0.02	NH...		S04...	115.
CA....	1.4	HCO3.....	198.	PO4...	0.22		
CL....	4.8	H2S.....					
CO....		K.....	0.6				

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

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

RECORD 00129

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0001625

NAME OF SAMPLE SOURCE... PURE OIL NO. 3
 WELL/SPRING NUMBER..... 19N-17W-22-000
 LOCATION
 COUNTRY..... UNITED STATES 19N 017W 22
 STATE..... NEW MEXICO 8&M: NEW MEXICO PRINCIPAL
 COUNTY..... MCKINLEY
 GEOLOGIC PROVINCE.. 28
 MAP REFERENCE..... CHUSKA LAKE 1124000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

COORDINATES

LAT/LONG... 35-51.2 N 108-37.8 W

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

PH..... 8.3
 SPECIFIC CONDUCTANCE..... 606.
 TOTAL DISSOLVED SOLIDS... 399.
 ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO3....	2.			
AL....	CR....		MG... N		
H....	F....	0.3	NA...	SI02.	22.
HE....	FE(TOT)...		NB...	S04..	122.
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

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0001677

NAME OF SAMPLE SOURCE... RAINBOW SPRING

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES U8N 020W 21 NW OF SE NW
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... MCKINLEY
 GEOLOGIC PROVINCE.. 28
 MAP REFERENCE..... OJO CALIENTE RESERVOIR 1124000

LAT/LONG... 34-54.63 N 108-57.03 W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1979/04
 TEMPERATURE (C)..... 21.
 DISCHARGE..... 6 500. L/MIN

WATER ANALYSIS

PH..... 7.0
 CHARGE IMBALANCE (% DIFF)... 4.6
 ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO3....		LI... 0.138		
AL....	CR....		MG... 40.		
AS....	CS....		MN... N		
H.... 0.096	F....	0.5	NA... 53.67	SI02.	16.8
HA.... 0.096					
HE....	FE(TOT) N		NB...	S04..	320.
HI....	GA.....		NH4..	SR...	1.34
CA.... 138.5	HCO3....	275.7			
CL.... 32.9					
CO....	K.....	5.48			

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEVITT AND GAMMILL, 1980

RECORD 00131

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0001672

NAME OF SAMPLE SOURCE... STANDING ROCK SPRING

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES T8N 014W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... MCKINLEY

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

ISOTOPES (U/001)

AG.....	CO3.....	LI...	0.142		
AL.....	CR.....	MG...	0.5		
AS.....	CS.....	MN...	0.024		
H..... 0.79	F..... 3.32	NA...	450.	SI02.	9.63
HA..... H					
HE.....	FE(TOT).. 0.17	NB...		S04..	538.3
HI.....	GA.....	NH4..		SR...	N
CA..... 2.7	HCO3.... 557.54				
CL..... 43.2					

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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001673

NAME OF SAMPLE SOURCE... STINKING SPRING

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 13N 017W 13 SE OF NE SW
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... MCKINLEY
 GEOLOGIC PROVINCE.. 28

LAT/LONG... 35-21.30 N 108-35.55 W

MAP REFERENCE..... UPPER NUTRIA 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

ISOTOPES (U/001)

AG.....	CO3.....	LI...	0.131		
AL.....	CR.....	MG...	16.7		
AS.....	CS.....	MN...	0.112		
H..... 0.2	F..... 0.34	NA...	24.75	SI02.	13.73
HA..... 0.2					
HE.....	FE(TOT).. 0.14	NB...		S04..	95.03
HI.....	GA.....	NH4..		SR...	N
CA..... 110.	HCO3.... 369.66				
CL..... 8.2					

CO..... K..... 1.1

REFERENCE AND IDENTIFICATION

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

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... LEVITTE AND GAMBILL, 1980

RECORD 00133

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0001674

NAME OF SAMPLE SOURCE... TOH SAM TOH

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 19N 017W
STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
COUNTY..... MCKINLEY
GEOLOGIC PROVINCE.. 28
MAP REFERENCE..... CHUSKA LAKE 1124000

LAT/LONG... 35-52.2 N 108-40.8 W

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1979/06
POINT OF COLLECTION.. HOLDING TANK
TEMPERATURE (C)..... 37.
DISCHARGE..... 1135. L/MIN

WATER ANALYSIS

PH..... 8.9
CHARGE IMBALANCE (% DIFF)... 5.2

ANALYSIS IN PPM

ISOTOPES (0/001)

AG.....	CO3.....	LI... 0.163			
AL.....	CR.....	MG... N			
AS.....	CS.....	MN... 0.002			
H..... 0.14	F..... 0.4	NA... 144.	SI02.	20.45	
HA..... 0.001					
HE.....	FE(TOT).. 0.008	NB...	SO4..	138.11	
HI.....	GA.....	NH4..	SR...	0.083	
CA.... 1.54	HCO3.... 180.56				
CL.... 5.9					
CO....	K..... 0.52				

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... LEVITTE AND GAMBILL, 1980

RECORD 00134

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0001627

NAME OF SAMPLE SOURCE... WELL

WELL/SPRING NUMBER..... 15N-16W-30-344

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 15N 016W 30 SE OF SE OF SW
STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
COUNTY..... MCKINLEY
GEOLOGIC PROVINCE.. 28
MAP REFERENCE..... FORT WINGATE 1124000

LAT/LONG... 35-29.4 N 108-33.3 W

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1968/10/02
TEMPERATURE (C)..... 61.
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

ISOTOPES (0/001)

AL.....	CR.....	MG...	59.		
H..... 1.1	F..... 0.4	NA...	1100.	SI02.	3.8
HE.....	FE(TOT)... 0.11	NB...		S04..	2990.
CA..... 264.	HCO3..... 110.				
CL..... 63.	I..... 0.1				
CO.....	K..... 21.				

REFERENCE AND IDENTIFICATION

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

RECORD 00135

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001678

NAME OF SAMPLE SOURCE... YA-TA-HEY WELL

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 16N 018W 06 NW OF SE SE
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... MCKINLEY
 GEOLOGIC PROVINCE.. 2B
 MAP REFERENCE..... TWIN LAKES 1124000

LAT/LONG... 35-38.4 N 108-46.8 W

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1979/04
 TEMPERATURE (C)..... 45.5

DISCHARGE..... L/MIN

WATER ANALYSIS

PH..... 7.2
 CHARGE IMBALANCE (% DIFF)... 5.3
 ANALYSIS IN PPM

ISOTOPES (0/001)

AS.....	CO3.....	LI...	0.102		
AL.....	CR.....	MG...	0.04		
AS.....	CS.....	MN...	0.006		
H..... 0.056	F..... 0.33	NA...	205.33	SI02.	23.55
HA..... 0.083					
HE.....	FE(TOT)... 0.001	NB...		S04..	214.5
HI.....	BA.....	NH4..		SR...	0.072
CA..... 1.65	HCO3..... 222.				
CL..... 15.4					
CO.....	K..... 0.64				

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEVITTE AND GAMBILL, 1980

RECORD 00136

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001675

NAME OF SAMPLE SOURCE... 141-510

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 12S 020W NE OF NW
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

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..... 1977/06
 TEMPERATURE (C)..... 23.
 DISCHARGE..... 57. L/MIN
 WATER ANALYSIS

PH..... 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.... 0.15	F..... 0.95	NA...	204.	SI02.	11.55
HA.... 0.049					
HE....	FE(TOT).. 0.03	NB...		S04..	159.77
HI....	GA.....	NH4..		SR...	0.056
CA.... 1.20	HCO3.... 335.5				
CL.... 8.1					
CO....	K..... 1.0				

ISOTOPES (0/001)

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEVITTE AND GAMBILL, 1980

RECORD 00137

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0001467

NAME OF SAMPLE SOURCE... UNNAMED WELL NORTH OF DAVIS DOME (1)
 WELL/SPRING NUMBER..... 255-008E-32-333

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES	255 008E 32	SW OF SW SW	LAT/LONG... 32-04.85 N 106-09.3 W
STATE..... NEW MEXICO			
COUNTY..... UTHERO			
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 227. M
 TEMPERATURE (C)..... 61.1
 WELL DEPTH (M)..... 227.

OTHER SAMPLE INFORMATION.. WELL DESTROYED

WATER ANALYSIS

PH..... 6.8
 SPECIFIC CONDUCTANCE..... 14500.
 ALKALINITY..... AS HCO3
 TOTAL DISSOLVED SOLIDS... 8980.

ANALYSIS IN MG/L

AL....	CR.....	MG...	80.		
BA....	F..... 4.7	NA...		SI02.	53.0
HA....	FE+3....	NA+K..	2530.		
HE....	FE(TOT)..	NB...		S04..	859.
CA.... 403.	HCO3.... 240.				

ISOTOPES (0/001)

CL..... 4060.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... LIEB, RANDY
 COMPILER AFFILIATION... US GEOLOGICAL SURVEY
 REFERENCE..... HENRY AND GLUCK, 1981

RECORD 00138

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0001466

NAME OF SAMPLE SOURCE... UNNAMED WELL WEST OF DAVIS DOME (1)
 WELL/SPRING NUMBER..... 26S-07E-01-241

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 26S 007E 01 NW OF SE NE LAT/LONG... 32-04.55 N 106-10.6 W
 STATE..... NEW MEXICO
 COUNTY..... OTERO
 GEOLOGIC PROVINCE.. 27
 MAP REFERENCE..... DESERT SW 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1956/12
 POINT OF COLLECTION.. SAMPLE TAKEN AT 154. M
 TEMPERATURE (C)..... 95.0
 WELL DEPTH (M)..... 153.

OTHER SAMPLE INFORMATION.. WELL DESTROYED

WATER ANALYSIS

PH..... 7.7
 SPECIFIC CONDUCTANCE..... 2030
 ALKALINITY..... AS HCO3
 TOTAL DISSOLVED SOLIDS... 1170.
 ANALYSIS IN MG/L

ISOTOPES (0/001)

AL....	CR.....	MG....	9.5		
HA....	F..... 1.6	NA....	5102.	44.0	
HA....	FE+3....	NA+K..	401.		
HE....	FE(II)...	NB....	504..	99.	
CA.... 9.9	HCO3.... 223.	NO3..	1.2		
CL.... 445.					

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

GEOTHERM FILE ID: 0001838

NAME OF SAMPLE SOURCE... STATUE SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES LAT/LONG... 36-22.08 N 106-03.54 W
 STATE..... NEW MEXICO
 COUNTY..... RIO ARriba
 GEOLOGIC PROVINCE.. 26
 MAP REFERENCE..... UJO 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

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0001629

NAME OF SAMPLE SOURCE... MONTEZUMA HOT SPRINGS

WELL/SPRING NUMBER..... 17N-15E-35-440

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 17N 015E 36 SE OF SE
STATE..... NEW MEXICO 86M NEW MEXICO PRINCIPAL

LAT/LONG... 35-39.2 N 105-17.4 W

COUNTY..... SAN MIGUEL

GEOLOGIC PROVINCE.. SAN JUAN BASIN

MAP REFERENCE..... MONTEZUMA 1124000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1966/01/03

TEMPERATURE (C)..... 55.

DISCHARGE..... 22. 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..... 0.989

SPECIFIC CONDUCTANCE..... 810.

CHARGE IMBALANCE (% DIFF)... 2.9

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....		CO3.....	1.	LI....	0.36		
AL....	0.88	CR.....		MG....	N		
AS....	0.04	CS.....		MN....	0.095		
AU....		CU.....		MO....		SE... N	
H....	0.44	F.....	3.4	NA....	200.	SI02.	80.
BE....		FE(TOT). N		NB....		S04..	160.
BR....	3.6						
CA....	5.	HCO3....	82.				
CL....	160.	I.....	0.0094				
CO....		K.....	6.9				

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

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0016502

NAME OF SAMPLE SOURCE... HACA 11 - UNION OIL CO.

KGRA..... HACA LOCATION NO. 1 KGRA

WELL/SPRING NUMBER..... 19N-03E-12-000

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 19N 03E 12

STATE..... NEW MEXICO

COUNTY..... SANDOVAL

GEOLOGIC PROVINCE.. SAN JUAN BASIN

MAP REFERENCE..... SEVEN SPRINGS 1124000

OTHER LOCALITY INFORMATION: 1900 FT. S, 1500 FT. W, FROM NE CORNER. (NOT SURVEYED)

SAMPLE DESCRIPTION AND CONDITIONS

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)... 0.0

ANALYSIS IN PPM

AG....	CO3..... N	LI...	S....	2.2
BA....	F.....	NA...	2010.	SI02.. 835.
BE....	FE(TOT)...	NB...		S04.. 58.
BI....	GA.....	NH4..	1.6	
CA.... 36.	HC03..... 118.			
CL.... 3770.				
CO....	K..... 541.			

ISOTOPES (0/001)

CONDENSATE ANALYSIS

PH..... 4.3

ANALYSIS IN PPM

CO3.. NH4.. 0 1.6

ISOTOPES (0/001)

GAS ANALYSIS

ANALYSIS IN PPM

CH4.. 6.	H2S.. 360.
C2H6.	N2... N
CO2.. 45900.	
H2... 1.5	

ISOTOPES (00/001)

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 SAMPLE FILE

GEOTHERM FILE ID: 0016501

NAME OF SAMPLE SOURCE... BACA 11 - UNION OIL CO.

KGRA..... BACA LOCATION NO. 1 KGRA

WELL/SPRING NUMBER..... 19N-03E-12-000

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 19N 03E 12

LAT/LONG... 35-53. N 106-34. W

STATE..... NEW MEXICO

COUNTY..... SANDOVAL

GEOLOGIC PROVINCE.. SAN JUAN BASIN

MAP REFERENCE..... SEVEN SPRINGS 1124000

OTHER LOCALITY INFORMATION: 1900 FT. S, 1500 FT. W, FROM NE CORNER. (NOT SURVEYED)

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... BACA 11C, BACA 11D

WATER ANALYSIS

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...	S....	6.
--------	------------	-------	-------	----

ISOTOPES (0/001)

H.....	F.....	NA...	2000.	SI02.	792.
HE.....	FE(TOT).	NB...		S04..	70.
CA..... 27.	HCO3.... 128.				
CL..... 3400.					
CO.....	K..... 463.				

CONDENSATE ANALYSIS

PH..... 4.5

GAS ANALYSIS

ANALYSIS IN PPM

CH4.. 1.5	H2S.. 567.
C2H6.	N2... 109.
CO2.. 47390.	
H2... 4.	

ISOTOPES 00701

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.

RECORD 00143

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0016500

NAME OF SAMPLE SOURCE... BACA 11 - UNION OIL CO.

KGRA..... BACA LOCATION NO. 1 KGRA

WELL/SPRING NUMBER..... 19N-03E-12-000

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 19N 03E 12

STATE..... NEW MEXICO

COUNTY..... SANDOVAL

GEOLOGIC PROVINCE... SAN JUAN BASIN

MAP REFERENCE..... SEVEN SPRINGS 1124000

LAT/LONG... 35-53. N 106-34. W

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

PH..... 6.60
 SPECIFIC CONDUCTANCE..... 11160.
 TOTAL DISSOLVED SOLIDS... 7593.
 TOTAL SUSPENDED SOLIDS... 638.
 CHARGE IMBALANCE (% DIFF)... 11.5

ANALYSIS IN PPM

AG....	CO3.... N	LI...	S.... 1.5
H.....	F.....	NA... 2200.	SI02. 640.
HE.....	FE(TOT).	NB...	S04.. 50.
HI.....	GA.....	NH4.. 6.4	
CA.... 46.	HCO3.... 57.		
CL.... 4400.			
CO.....	K..... 550.		

ISOTOPES 107001

CONDENSATE ANALYSIS

PH..... 4.9

ANALYSIS IN PPM

CO3.. NH4.. 0 6.4

ISOTOPES 107001

GAS ANALYSIS

ANALYSIS IN PPM

CH4.. H2S.. 290.

ISOTOPES 107001

C2H6.. H2... 39.

C02... 33700.

H2... 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

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0016503

NAME OF SAMPLE SOURCE... RACA 11 - UNION OIL CO.
 KGRA..... RACA LOCATION NO. 1 KGRA
 WELL/SPRING NUMBER..... 19N-03E-12-000

LOCATION

COORDINATES

LAT/LONG... 35-53. N 106-34. W

COUNTRY..... UNITED STATES 19N 03E 12
 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..... RACA 11 G

CONDENSATE ANALYSIS

PH..... 4.7

GAS ANALYSIS

ISOTOPIES (0070)

ANALYSIS IN MOLE %

CH4..	0.01	H2S..	1.27
C2H6..	0.07	N2...	0.27
C02..	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.

RECORD 00145

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0001748

NAME OF SAMPLE SOURCE... BUDDHIST SPRING

LOCATION

COORDINATES

LAT/LONG... 35-46.5 N 106-41. W

COUNTRY..... UNITED STATES 86N NEW MEXICO PRINCIPAL
 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..... 1977/01/03

SAMPLE NUMBER..... VA-8

TEMPERATURE (C)..... 49.

DISCHARGE..... 4. L/MIN

HOSTING LITHOLOGY..... ALLUVIUM; PALEOZOIC ROCKS

WATER ANALYSIS

P..... 6.38

CHARGE IMBALANCE (% DIFF)... 0.0

ANALYSIS IN MG/L

AG....		CO3....		LI....	7.56			
AL....		CR....		MG....	9.57			
AS....		CS....		MN....	0.24			
H....	5.73	F....	3.86	NA....	458.	SI02.	81.	
HE....		FE(TOT)...	0.18	NH....		S04..	37.6	
CA....	154.	HCO3....	697.					
CL....	653.							

ISOTOPES (0/00)

CO.... 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

GEOTHERM FILE ID: 0001753

NAME OF SAMPLE SOURCE... BUDDHIST SPRINGS

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	
STATE.....	NEW MEXICO	B&M NEW MEXICO PRINCIPAL
COUNTY.....	SANDOVAL	
GEOLOGIC PROVINCE...	26	
MAP REFERENCE.....	JEMEZ SPRINGS 1124000	

LAT/LONG... 35-46.5 N 106-41. W

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

P..... 6.59

CHARGE IMBALANCE (% DIFF)... 0.7

ANALYSIS IN MG/L

AG....		CO3....		LI....	6.06			
AL....	0.013	CR....		MG....	7.5			
AS....		CS....		MN....	0.19			
H....	5.67	F....	3.76	NA....	494.	SI02.	72.	
HE....		FE(TOT)...	0.16	NH....		S04..	40.6	
CA....	128.	HCO3....	708.					
CL....	653.							

ISOTOPES (0/00)

CO.... K..... 57.8

REFERENCE AND IDENTIFICATION

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

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... GOFF AND OTHERS, 1981

RECORD 00147

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0001745

NAME OF SAMPLE SOURCE... GROTTO SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 18N 002E LAT/LONG...
STATE..... NEW MEXICO 86M1 NEW MEXICO PRINCIPAL
COUNTY..... SANDOVAL
GEOLOGIC PROVINCE.. SAN JUAN BASIN
MAP REFERENCE..... JEMEZ SPRINGS 1124000
OTHER LOCALITY INFORMATION: SPRING FLOWS FROM CAVE ON EAST SIDE OF SODA SPRING DAM.
SAMPLE DESCRIPTION AND COMMENTS:

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 38.
DISCHARGE..... 12. L/MIN
PERTINENT LITHOLOGY..... PALEOZOIC ROCKS

WATER ANALYSIS

DATE/ANALYST..... HUSLER, JOHN
P1..... 6.8
CHARGE IMBALANCE (% DIFF)... 18.9
ANALYSIS IN MG/L

ISOIOPES 10/001

AG.....		CO ₃		LI....	13.2		
AL.....		CR.....		MG....	27.		
AS.....		CS.....		MN....	0.5		
B.....	11.6	F.....	4.6	NA....	1000.	SiO ₂ .	44.
BE.....		Fe(TOT).	0.11	NB....		SiO ₄ ..	41.
CA.....	324.	HCO ₃	834.				
CL.....	1480.						
CO.....		K.....	174.				

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R.H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GOFF AND SAYER, 1980

RECORD 00148

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... INDIAN SPRINGS
..WELL/SPRING NUMBER..... 16N-02E-29-142

GEOTHERM FILE ID: 0001655

LOCATION

COUNTRY.....	UNITED STATES	16N 00E 29	NE OF SE OF NW	COORDINATES	
STATE.....	NEW MEXICO	B&M: NEW MEXICO PRINCIPAL		LAT/LONG...	35-35.5 N 106-45.2 W
COUNTY.....	SANDOVAL				
GEOLOGIC PROVINCE..	25				
MAP REFERENCE.....	SAN YSIDRO 1124000				
OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.					

SAMPLE DESCRIPTION AND CORUPTIONS

DATE/COLLECTOR..... 1973/08/30
TEMPERATURE (C)..... 51.
DISCHARGE..... 36. L/MIN

WATER ANALYSIS

PH.....	8.0
SPECIFIC CONDUCTANCE.....	5694.
TOTAL DISSOLVED SOLIDS....	3770.
CHARGE IMBALANCE (% DIFF)...	5.0

ISOLOPES 10/001

AG....		CO3....	N	LI...	6.7		
AL....		CR....		MG...	21.		
AS....	0.009	CS....		MN...	1.30		
B....	B.2	F....	4.0	NA...	1300.	SiO2.	68.
BE....		FE(TOF).	0.05	NB...		SiO4..	270.
BR....	5.0						

CA.... 110. HCO3.... 1440.
 CD.... H2S.... P04.. 0.34
 CL.... 1200.
 CO.... K.... 73.

REFERENCE AND IDENTIFICATION

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

RECORD 00149

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001750

NAME OF SAMPLE SOURCE... JEMEZ SPRINGS (MAIN ORIFICE)

LOCATION

TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 35-46.5 N 106-41. W

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

B&M: NEW MEXICO PRINCIPAL

COUNTY..... SANDOVAL

GEOLOGIC PROVINCE... SAN JUAN BASIN

MAP REFERENCE..... JEMEZ SPRINGS 1124000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE: SPRING DISCHARGES FROM CONCRETE TANK UNDER 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....	5.19	NA...	656.	SI02.	93.
HE....		FE(TOT)...	0.2	NB...		SO4...	40.9
CA....	152.	HCO3....	711.				
CL....	904.						
CO....		K....	74.2				

ISOTOPES (0/001)

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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001755

NAME OF SAMPLE SOURCE... JEMEZ SPRINGS (MAIN ORIFICE)

LOCATION

TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 35-46.5 N 106-41. W

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

B&M: NEW MEXICO PRINCIPAL

COUNTY..... SANDOVAL

GEOLOGIC PROVINCE... SAN JUAN BASIN

MAP REFERENCE..... JEMEZ SPRING 1124000

OTHER LOCALITY INFORMATION: DISCHARGES FROM CONCRETE TANK UNDER GAZEBO: CO2 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..... ALLOUVIUM; PALEOZOIC ROCKS
 WATER ANALYSIS

PH..... 7.51

CHARGE IMBALANCE (% DIFF).... 1.7

ANALYSIS IN MU/L

AG....		CO3.....	LI....	9.00	S....		
AL....	0.914	CR.....	MG....	4.52	SB....		
AS....		CS.....	MN....	0.1			
H....	8.03	F.....	NA....	690.	SI02..	85.	
HE....		FE(TOT)...	NB....		S04..	45.4	
CA....	115.	HCO3....					
CL....	968.						
CO....		K.....					

ISOTOPES (0/001)

DEL D OF WATER..... -81.4
 DEL O(18) OF WATER... -10.4

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R.H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GOFF AND OTHERS, 1981

RECORD 00151

GEO THERM SAMPLE FILE

NAME OF SAMPLE SOURCE... JEMEZ SPRINGS (JOS CALIENTES)
 LOCATION..... OWNERSHIP=RANGE

GEO THERM FILE ID: 0000671

COORDINATES

LAT/LONG... 35-47. N 106-41. W
 UTM ZONE... +13
 NORTHING... 3961025.
 347861.

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)..... 36.0

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.....				
AL....		CR.....	MG....	6.6		
H....	11.	F.....	NA....	572.	SI02..	93.
HE....		FE(TOT)...	NB....		S04..	49.
CA....	138.	HCO3....	N03..	0.8		
CL....	795.					
CO....		K.....				

ISOTOPES (0/001)

REFERENCE AND IDENTIFICATION

COMPILED BY..... PATTERSON, E., RENNER, J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMNER, 1965

RECORD 00152

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0001752

NAME OF SAMPLE SOURCE... JEMEZ WELL - 500 FT AQUIFER

LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 35-46.5 N 106-41. W

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

B&M: NEW MEXICO PRINCIPAL

COUNTY..... SANDOVAL

GEOLOGIC PROVINCE.. SAN JUAN BASIN

MAP REFERENCE..... JEMEZ SPRINGS 1124000

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..... 80. L/MIN

PERTINENT LITHOLOGY..... PALEOZOIC ROCKS

WATER ANALYSIS

PH..... 6.69

CHARGE IMBALANCE (% DIFF)... 1.4

ANALYSIS IN MG/L

AG....		CO3.....	LI...	2.27	S....	
AL....	0.018	CR.....	MG...	9.31	SB...	
AS....		CS.....	MN...	0.02		
B....	2.21	F.....	3.3	NA...	185.	SI02. 24.
BF....		FE(OTI)...	0.39	NH...		SO4.. 38.
CA....	120.	HCO3.....	479.			
CL....	243.					
CO....		K.....	29.9			

ISOTOPIES (0/001)

DEL D OF WATER..... -85.9

DEL O(18) OF WATER... -11.8

REFERENCE AND IDENTIFICATION

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

COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... GOFF AND OTHERS, 1981

RECORD 00153

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0001756

NAME OF SAMPLE SOURCE... JEMEZ WELL - 80 FT. AQUIFER

LOCATION TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 35-46.5 N 110-58.6 W

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

B&M: NEW MEXICO PRINCIPAL

COUNTY..... SANDOVAL

GEOLOGIC PROVINCE.. SAN JUAN BASIN

MAP REFERENCE..... JEMEZ SPRINGS 1124000

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

ISOTOPIES (0/001)

AG....		CO3....		LI...	6.96	S....		DEL D OF WATER.....	-84.0
AL....	0.013	CR....		MG...	5.76	SB...		DEL O(18) OF WATER...	-11.8
AS....		CS....		MN...	0.11				
H....	6.09	F.....	4.42	NA...	546.	S102.	70.		
HE....		FE(TOT)...	0.39	NB...		S04..	45.		
CA....	122.	HCO3....	642.						
CL....	705.								
CO....		K.....	61.6						

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R.H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GUFF AND OTHERS, 1981

RECORD 00154

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001653

NAME OF SAMPLE SOURCE... KASEMAN NO. 2 (WARM SPRINGS)

WELL/SPRING NUMBER..... 16N-01W-01-421

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 16N 001W 01 NW OF NE OF SE LAT/LONG... 35-38.8 N 106-53.3 W

STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

COUNTY..... SANDOVAL

GEOLOGIC PROVINCE... Z5

MAP REFERENCE..... HOLY GHOST SPRING 1124000

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 MI 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

ISOTOPES (0/001)

AL....		CR.....		MG...	62.		
H....	7.0	F.....	2.8	NA...	3300.	S102.	31.
HE....		FE(TOT)...		NB...		S04..	2690.
CA....	340.	HCO3....	1086.				
CL....	3100.						

REFERENCE AND IDENTIFICATION

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

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... DATA SOURCE UNKNOWN

RECORD 00155

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001654

NAME OF SAMPLE SOURCE... KASEMAN NO.1

WELL/SPRING NUMBER..... 16N-01E-07-100

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 16N 001E 08 NW LAT/LONG... 35-38.1 N 106-51.6 W

STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

COUNTY..... SANDOVAL

GEOLOGIC PROVINCE.. 25
 MAP REFERENCE..... GILMAN 1124000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1926/09/29
 TEMPERATURE (C)..... 46.
 WELL DEPTH (M)..... 168.
 DISCHARGE..... 9273. L/MIN
 PERTINENT LITHOLOGY..... SANDSTONE
 OTHER SAMPLE INFORMATION.. PLUGGED WELL
 WATER ANALYSIS

TOTAL DISSOLVED SOLIDS... 11120.

ANALYSIS IN PPM

AL....	CR.....	MG...	73.		
H.....	F.....	NA...		SI02.	18.
BA....	FE+3....	NA+K.	3450.		
BE....	FE(TOT)..	NB...		S04..	3645.
CA.... 400.	HCO3....	NO3.. N			
CL.... 2660.					
CO....	K.....		103.		

ISOTOPES (0/001)

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... RENICK, 1931.

RECORD 00156

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID# 0016635

NAME OF SAMPLE SOURCE... LASL GT-2-LOS ALAMOS SCIENTIFIC LAB
 KGRA..... JEMEZ RIVER BASIN
 WELL/SPRING NUMBER..... 19N-02E-13-200

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 19N 002E 13 NE
 STATE..... NEW MEXICO
 COUNTY..... SANDOVAL
 GEOLOGIC PROVINCE.. SAN JUAN BASIN
 MAP REFERENCE..... SEVEN SPRINGS 1124000

LAT/LONG... 35-53.0 N 106-40.4 W

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1974/03/18
 TEMPERATURE (C)..... 197. AT (M).. 2928.
 WELL DEPTH (M)..... 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.

WATER ANALYSIS

PH..... 7.40 AT(C) 25.
 SPECIFIC CONDUCTANCE..... 2920.
 TOTAL DISSOLVED SOLIDS... 2500.

ANALYSIS IN PPM

AL....	CR.....	MG...	42.		
H.....	F.....	NA...	550.	SI02.	115.
BE....	FE(TOT)..	NB...		S04..	200.
CA.... 78.	HCO3....		1300.		
CL.... 400.					

ISOTOPES (0/001)

REFERENCE AND IDENTIFICATION

COMPILED BY..... SILVA, CHRISTOPHER L.

COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... COSNER AND APPS, 1978.

RECORD 00157

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0001742

NAME OF SAMPLE SOURCE... LITTLE SPENCE HOT SPRING

WELL/SPRING NUMBER..... 19N-03E-28-000

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 19N 003E 28 SW OF NE SW
STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

LAT/LONG... 35-50.90 N 106-37.80 W

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 MU/L

ISOTOPES (0/001)

AG....	CO3.....	LI...	0.66		
AL....	CR.....	MG...	1.9		
AS....	CS.....	MN... L	0.02		
H.... 0.13	F..... 0.7	NA...	56.	SI02.	67.
HE....	FE(TOT) L	NB...		S04..	25.
CA.... 8.8	HC03.... 152.				
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

RECORD 00158

GEOHERM SAMPLE FILE

GEOHERM FILE ID: 0001743

NAME OF SAMPLE SOURCE... MCCAULEY SPRING

WELL/SPRING NUMBER..... 19N-03E-32-000

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 19N 003E 04
STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

LAT/LONG... 35-49.20 N 106-37.61 W

COUNTY..... SANDOVAL

GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... JEME7 SPRINGS 1124000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 31.

DISCHARGE..... 140. L/MIN

PERTINENT LITHOLOGY..... VOLCANIC PALEOZOIC ROCKS

WATER ANALYSIS

DATE/ANALYST..... HUSLER, JOHN

PH..... 6.2

CHARGE IMBALANCE (% DIFF)... 6.1

ANALYSIS IN MU/L

ISOTOPES (0/001)

AG....	CO3.....	LI...	0.24
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AL....	CR.....	MG...	4.9		
AS....	CS.....	MN...	L 0.02		
H.... 0.24	F..... 0.85	NA...	18.	SI02.	56.
HF....	FE(TOT). L 0.04	NB...		S04..	7.
CA.... 8.5	HCO3.... 86.				
CL.... 6.					
CO....	K..... 0.8				

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R.H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GOFF AND SAYER, 1980

RECORD 00159

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0001657

NAME OF SAMPLE SOURCE... MCCAULEY SPRING
 WELL/SPRING NUMBER..... 19N-03E-32-000

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 19N 03E 04 NE OF NE SW
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

LAT/LONG... 35-49.20 N 106-37.61 W

COUNTY..... SANDOVAL
 GEOLOGIC PROVINCE... SAN JUAN BASIN
 MAP REFERENCE..... JENEZ SPRINGS 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1973/01/16
 TEMPERATURE (C)..... 32.
 DISCHARGE..... 1390 L/MIN
 PERTINENT LITHOLOGY..... VOLCANIC SEDIMENTS.

WATER ANALYSIS

PH..... 8.0
 SPECIFIC CONDUCTANCE.... 165.
 TOTAL DISSOLVED SOLIDS... 0.49
 CHARGE IMBALANCE (% DIFF)... 9.6

ANALYSIS IN PPM

ISOTOPES (0/001

AG....	CO3.... N.				
AL....	CR.....	MG...	4.7		
AS....	CS.....	MN...	N		
H.... 0.02	F..... 1.0	NA...	19.	SI02.	56.
HF....	FE(TOT). 0.02	NB...		S04..	6.6
CA.... 8.7	HCO3.... 94.				
CO....	H2S.....	PO4..	0.15		
CL.... 3.8					
CO....	K..... 0.9				

REFERENCE AND IDENTIFICATION

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

RECORD 00160

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0001652

NAME OF SAMPLE SOURCE... PHILLIPS SPRINGS
 WELL/SPRING NUMBER..... 15N-01E-05-140

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 15N 01E 05 SE OF NW
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

LAT/LONG... 35-36.13 N 106-51.55 W

COUNTY..... SANJOVAL
 GEOLOGIC PROVINCE.. 25
 MAP REFERENCE..... SAN YSIRO 1124000
 SAMPLE DESCRIPTION AND CIRCUMSTANCES
 DATE/COLLECTOR..... 1924/09/24
 TEMPERATURE (C)..... 21.
 DISCHARGE..... L/MIN
 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.		
B....	F.....	NA...	5102.	30.	
HA....	FE+3....	NA+K.	2400.		
HE....	FE(10T).	NB...	504..	1728.	
CA.... 260.	HC03....	N03..	1		
CL.... 2330.					

ISOTOPES 10/001

GAS ANALYSIS

DATE/ANALYST..... YANT, W.P.

ANALYSIS IN PPM

CH4..	H2S..	N	
C2H6.	N2...	21.3	
CO2.. 70.4	O2...	8.3	

ISOTOPES 100/01

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... BENICK, 1931

RECORD 00161

GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0001658

NAME OF SAMPLE SOURCE... SAN ANTONIO HOT SPRINGS

WELL/SPRING NUMBER..... 20N-03E-29-120

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 20N 003E 29 NE OF NW
 STATE..... NEW MEXICO U&M: NEW MEXICO PRINCIPAL

LAT/LONG... 35-56.28 N 106-38.72 W

COUNTY..... SANJOVAL

GEOLOGIC PROVINCE.. SAN JUAN BASIN

MAP REFERENCE..... SEVEN SPRINGS 1124000

SAMPLE DESCRIPTION AND CIRCUMSTANCES

DATE/COLLECTOR..... 1973/05/16

TEMPERATURE (C)..... 40.

DISCHARGE..... 1222. L/MIN

OTHER SAMPLE INFORMATION.. FRACTURES IN RHYOLITE PORPHYRY. NEARBY SPRING HAS REPORTED TEMP. 49 C, 155 L/MIN

WATER ANALYSIS

P..... 1.7

SPECIFIC CONDUCTANCE..... 122.

CHARGE IMBALANCE (8 DIFF)... 1.6

ANALYSIS IN PPM

ISOTOPES 10/001

AG....	CO3....	N	
AL....	CR.....	MG...	0.3
AS.... 0.003	CS.....	MN...	N
H.... 0.06	F.....	0.8	23.
HE....	FE(10T).	0.160	5102. 76.
HR.... 0.06			504.. 8.8

CA.... 4.1 HCO3.... 61.
 CD.... H2S.... PO4.. 0.21
 CL.... 2.3
 CO.... K..... 2.0

REFERENCE AND IDENTIFICATION

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

RECORD 00162

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001744

NAME OF SAMPLE SOURCE... SAN ANTONIO HOT SPRINGS

WELL/SPRING NUMBER..... 20N-03E-29-120

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 20N 03E 29 NE OF NW
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

COUNTY..... SANDOVAL

GEOLOGIC PROVINCE.. SAN JUAN BASIN

MAP REFERENCE..... JEMEZ SPRINGS 1124000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 42.

DISCHARGE..... 160. L/MIN

PERTINENT LITHOLOGY..... VOLCANIC ROCKS

WATER ANALYSIS

DATE/ANALYST..... HUSLER, JOHN

PH..... 6.8

CHARGE IMBALANCE (% DIFF)... 5.8

ANALYSIS IN MG/L

ISOTOPES (0/001)

AG....	CO3....	LI... L	0.02		
AL....	CR....	MG...	0.3		
AS....	CS....	MN...	0.02		
H.... L 0.05	F..... 0.8	NA...	21.	SI02.	79.
HE....	FE(TOT). L 0.04	NU...		S04..	7.
CA.... 2.3	HCO3.... 56.				
CL.... 2.					
CO....	K..... 1.7				

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R.H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GOFF AND SAYER, 1980

RECORD 00163

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001659

NAME OF SAMPLE SOURCE... SAN ANTONIO WARM SPRING

WELL/SPRING NUMBER..... 20N-04E-07-000

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 20N 04E 07
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

COUNTY..... SANDOVAL

GEOLOGIC PROVINCE.. SAN JUAN BASIN

MAP REFERENCE..... VALLE SAN ANTONIO 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/11/01

TEMPERATURE (C)..... 37.

DISCHARGE..... 59. L/MIN
 PERTINENT LITHOLOGY..... RHYOLITE TUFF
 OTHER SAMPLE INFORMATION.. MAX TEMP 38 C
 WATER ANALYSIS

SPECIFIC GRAVITY..... 0.989
 SPECIFIC CONDUCTANCE..... 155.
 TOTAL DISSOLVED SOLIDS... 265.
 ANALYSIS IN PPM

AG....	CO3....	LI....	0.07		
AL....	CR....	MG....	0.05		
AS.... 0.015	CS....	MN....	0.062		
AU....	CU....	MO....		SE... N	
H....	F....	NA....	57.	SI02.	107.
HE....	FE(TOT)..		0.03		
HR.... 0.19					
CA.... 6.	HCO3....		23.		
CD....	H2S....	P04..	0.025		
CL.... 8.	I....		0.021		
CO....	K....		4.2		

ISOTOPES (0/00)

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 SAMPLE FILE

GEOTHERM FILE ID# 0002958

NAME OF SAMPLE SOURCE... SAN YSIDRO - UNNAMED MINERAL SPRING

WELL/SPRING NUMBER..... 15N-01E-16-310

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 15N 001E 16 NW OF SW
 STATE..... NEW MEXICO
 COUNTY..... SANDOVAL
 GEOLOGIC PROVINCE.. SAN JUAN BASIN

LAT/LONG... 35-31.7 N 106-50.8 W

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE, INACCESSIBLE

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.

WATER ANALYSIS

PH..... 7.27
 ALKALINITY..... 2265. AS HCO3
 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.... 0.3	MN....	0.05		
AU....	CU.... 0.01				
H.... 8.0	F.... 2.0	NA....	3800.	SI02.	18.
HE....	FE(TOT)..	NB....		SO4..	3700.
HR....	GE....	NI....	0.04		
CA.... 220.	HCO3....		2265.		
CL.... 2700.					
CO....	K.... 140.	RU....	0.64	ZN....	0.05

ISOTOPES (0/00)

DEL D 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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0015254

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 B&M: NEW MEXICO PRINCIPAL
 COUNTY..... SANDOVAL

GEOLOGIC PROVINCE.. SAN JUAN BASIN
 MAP REFERENCE..... SAN YSIDRO 1:24000

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

ISOTOPES (0/001)

AG....	CO3..... N	LI... 6.4			
AL....	CR.....	MG... 70.			
B.... 6.0	F..... 70.	NA... 1760.	SI02.. 15.		
BE....	FE(TOT). N	NB... 1220.	S04..		
CA.... 157.	HCO3.... 1080.				
CL.... 1680.					
CO....	K..... 71.				

REFERENCE AND IDENTIFICATION

COMPILED BY..... TESHIN, VICTOR
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... U.S. GEOLOGICAL SURVEY

RECORD 00166

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0002960

NAME OF SAMPLE SOURCE... SAN YSIDRO - UNNAMED WARM SPRING
 WELL/SPRING NUMBER..... 15N-01E-10-310

LOCATION

COORDINATES

LAT/LONG... 35-32.6 N 106-49.8 W

COUNTRY..... UNITED STATES 15N 001E 10 NW OF SW
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... SANDOVAL

GEOLOGIC PROVINCE.. SAN JUAN BASIN
 MAP REFERENCE..... SAN YSIDRO 1:24000

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 HCO3

TOTAL DISSOLVED SOLIDS... 7653.

CHARGE IMBALANCE (% DIFF)... 0.9

ANALYSIS IN MG/L

AG....	CO3....	LI...	6.1	S....	
AL....	CR....	MG...	68.	SB...	
AS....	CS.... 0.4	MN...	0.57		
AU....	CU.... 0.01				
B.... 11.	F.... 3.4	NA...	2000.	SI02.	20.
BE....	FE(TOT).. 0.14	NB...		S04..	1200.
BR....	GE....	NI...	0.03		
CA.... 300.	HCO3.... 2005.				
CA+MG.	MG..... L 0.0001				
CL.... 1900.					
CO....	K..... 83.	RU...	0.49	ZN...	0.02

ISOTOPIES (0/001)

DEL D OF WATER..... -86.5
 DEL O(18) OF WATER... -10.12

REFERENCE AND IDENTIFICATION

COMPILED BY..... TESHIN, VICTOR

COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY

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

RECORD 00167

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001746

NAME OF SAMPLE SOURCE... SODA DAM SPRING

WELL/SPRING NUMBER..... 18N-02E-14-000

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 18N 02E 14
 STATE..... NEW MEXICO RANGE: NEW MEXICO PRINCIPAL
 COUNTY..... SANDOVAL
 GEOLOGIC PROVINCE.. SAN JUAN BASIN
 MAP REFERENCE..... JEMEZ SPRINGS 1124000

LAT/LONG... 35-47.6 N 106-41.1 W

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 47.
 DISCHARGE..... 60. L/MIN

PERTINENT LITHOLOGY..... PALEOZOIC ROCKS

WATER ANALYSIS

DATE/ANALYST..... MUSLER, JOHN

PH..... 6.2

CHARGE IMBALANCE (% DIFF)... 18.3

ANALYSIS IN MG/L

AG....	CO3....	LI...	13.2		
AL....	CR....	MG...	26.		
AS....	CS....	MN...	0.55		
B.... 11.5	F.... 4.1	NA...	1010.	SI02.	43.
BE....	FE(TOT).. 0.11	NB...		S04..	37.
CA.... 328.	HCO3.... 886.				
CL.... 1480.					
CO....	K..... 174.				

ISOTOPIES (0/001)

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARTINEK, R.H.

COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... GOFF AND OTHERS, 1981

RECORD 00168

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001749

NAME OF SAMPLE SOURCE... SODA DAM SPRING

LOCATION
COUNTRY..... UNITED STATES
STATE..... NEW MEXICO
COUNTY..... SANDOVAL
GEOLOGIC PROVINCE... 26
MAP REFERENCE..... JEMEZ SPRINGS 1124000

IQWNSHIP=RANGE

USM: NEW MEXICO PRINCIPAL

COORDINATES

LAT/LONG... 35-47.5 N 106-41. W

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE: MAIN SPRING; DISCHARGES FROM FAULTED PALEOZOIC SEDIMENTS IN JEMEZ

... FAULT ZONE.

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....		LI....	13.20	S....	
AL....		CR....		MG....	24.4	SB....	
AS....		CS....		MM....	0.47		
BA....	13.82	F....	3.67	NA....	938.	SI02.	50.
BE....		FE(TOT)...	0.14	NB....		SO4..	38.4
CA....	340.	HCO3....	1514.				
CL....	1503.						
CO....			183.				

ISOTOPES 10/001

DEL D OF WATER..... -84.9

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 00169

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0001656

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 1124000

IQWNSHIP=RANGE

USM: NEW MEXICO PRINCIPAL

COORDINATES

LAT/LONG... 35-47.49 N 106-41.18 W

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	LI....	13.
AL....	0.005	CR....		MG....	24.

ISOTOPES 10/001

AS....	1.5	CS.....		MN...	0.55		
AU....		CU.....		MO...		SE...	N
H....	12.5	F.....	3.3	NA...	990.	SI02.	50.
ME....		FE(TOT)...	0.04	NB...		S04..	52.
MR....	6.9						
CA....	330.	HCO3....	1578.				
CO....		H2S.....		PO4..	0.26		
CL....	1500.						
CO....		K.....	200.				

GAS ANALYSIS
ANALYSIS

CH4..	0.01		
C2H6.		N2...	1.7
CO2..	90.2	O2...	0.1.
H2...	N		

ISOTOPES (00701)

QUALIFICATION FIELD..... GAS ANAL: 02 = 02 + AR.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... SUMMERS, 1976

RECORD 00170

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001741

NAME OF SAMPLE SOURCE... SPENCE HOT SPRING
 WELL/SPRING NUMBER..... 19N-03E-28-310

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	19N 003E 28	NW OF SW
STATE.....	NEW MEXICO	B&M: NEW MEXICO PRINCIPAL	
COUNTY.....	SANDOVAL		
GEOLOGIC PROVINCE..	SAN JUAN BASIN		
MAP REFERENCE.....	JEME7 SPRINGS 1:62500		

LAT/LONG... 35-50.33 N 106-37.40 W

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
 P.I..... 6.7
 CHARGE IMBALANCE (% DIFF)... 7.5

ANALYSIS IN MG/L

ISOTOPES (07001)

AG....		CO3....		LI...	0.66		
AL....		CR.....		MG...	1.9		
AS....		CS.....		MN...	L 0.02		
H....	0.15	F.....	0.55	NA...	50.	SI02.	66.
ME....		FE(TOT) L	0.04	NB...		S04..	16.
CA....	5.5	HCO3....	144.				
CL....	H.						
CO....		K.....	1.3				

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R.H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GOFF AND SAYER, 1980

RECORD 00171

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0015253

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

ISOTOPES (0/001)

AG.... CO3..... 1.5 LI... 8.7

AL.... CR..... MG... 4.8

AS.... 0.66

B.... 7.4

BE.... F..... 4.8 NA... 640. SI02. 79.

CA.... 130. FE(TOT). 0.04 NB... S04.. 53.

CL.... HCO3.... 732.

CO.... 920.

K..... 82.

REFERENCE AND IDENTIFICATION

COMPILED BY..... TESHIN, VICTOR

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... U.S. GEOLOGICAL SURVEY

RECORD 00172

GEOTERM SAMPLE FILE

GEOTERM FILE ID: 0015251

NAME OF SAMPLE SOURCE... SPRING IN CALAVERAS CANYON

LOCATION TOWNSHIP=RANGE

COORDINATES

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

COUNTY..... SANDOVAL

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

ISOTOPES 10/001

AG.... CO3..... 1.0 LI... 0.69

AL.... CR..... MG... 1.7

AS.... 0.072

B.... 0.07

BE.... F..... 0.7 NA... 55. SI02. 100.

CA.... 10.0 FE(TOT). 0.04 NB... S04.. 10.

CA.... 6.0 HCO3.... 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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0015250

NAME OF SAMPLE SOURCE... SULPHUR SPRINGS - LEMONADE SPRING
 WELL/SPRING NUMBER..... 19N-03E-03-143

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 19N 003E 03 SW OF SE OF NW LAT/LONG... 35-54.42 N 106-36.92 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 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.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1949/DM/31
 TEMPERATURE (C)..... 65.0

PERTINENT LITHOLOGY..... LATE PLIOCENE OR PLEISTOCENE RHYOLITE OVERLYING PALEOZOIC SEDIMENTS.

WATER ANALYSIS

PA..... 1.9
 SPECIFIC CONDUCTANCE..... 4570
 TOTAL DISSOLVED SOLIDS... 2160.
 ANALYSIS IN PPM

ISOTOPES (0/001)

AG....	CO3.... N				
AL.... 56.	CH....	MG...	52.		
AS....	CS....	MN...	3.3		
H....	F..... 1.1	NA...	6.7	SI02.	216.
HE....	FE(TOT).. 33.	NB...		S04..	1570.
CA.... 185.	HCO3.... N				
CL.... 3.5					
CU....	K..... 24.				

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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001747

NAME OF SAMPLE SOURCE... TRAVERTINE MOUND SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... SANDOVAL
 GEOLOGIC PROVINCE.. SAN JUAN BASIN
 MAP REFERENCE..... JEMEZ SPRINGS 1:24000
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE; SPRING ISSUES FROM TRAVERTINE MOUND WEST OF BATHHOUSE.
 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

ISOTOPES (0/001)

AG....	CO3....	LI...	8.20		
AL....	CR....	MG...	4.56		
AS....	CS....	MN...	0.18		
H..... 7.83	F..... 5.21	NA...	614.	SI02.	93.
HE....	FE(TOT).. 0.15	NB...		S04..	36.1
CA.... 182.	HCO3.... 723.				
CL.... 829.					
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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001754

NAME OF SAMPLE SOURCE... TRAVERTINE MOUND SPRING
 LOCATION..... TOWNSHIP-RANGE
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... SANDOVAL
 GEOLOGIC PROVINCE.. SAN JUAN BASIN

COORDINATES

LAT/LONG... 35-46.5 N 106-41. W

MAP REFERENCE..... JEMEZ SPRINGS 1124000
 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

ISOTOPES (0/001)

AG....	CO3....	LI...	8.46		
AL.... 0.016	CR....	MG...	4.48		
AS....	CS....	MN...	0.11		
H..... 7.86	F..... 5.05	NA...	612.	SI02.	83.
HE....	FE(TOT).. 0.15	NB...		S04..	43.2
CA.... 114.	HCO3.... 714.				
CL.... 936.					
CO....	K..... 70.3				

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R.H.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... GOFF AND OTHERS, 1981

RECORD 00176

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0001835

NAME OF SAMPLE SOURCE... UNNAMED SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 35-18.48 N 106-28.26 W

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 SAMPLE FILE

GEOTHERM FILE ID: 0001751

NAME OF SAMPLE SOURCE... UNNAMED WARM SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 35-46.5 N 106-41. W

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

B&M: NEW MEXICO PRINCIPAL

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 O MAIN JEMEZ SPRING (NOW DESTROYED).

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1979/01/05

SAMPLE NUMBER..... VA-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.... LI... 8.18

AL.... CR.... MG... 7.82

AS.... CS.... MN... 0.49

H.... 7.51 F.... 4.6 NA... 609.

HE.... FE(TOT)... 0.99 NB... S102. 100.

CA.... 129. HCO3.... 738. S04.. 41.8

CL.... 903.

CO.... K.... 70.

ISOTOPES (0/001)

REFERENCE AND IDENTIFICATION

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

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... GOFF AND OTHERS, 1981

RECORD 00178

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0002959

NAME OF SAMPLE SOURCE... UNNAMED WARM SPRING (SOUTH OF SAN YSIDRO PEAK)

WELL/SPRING NUMBER..... 42N-26E-11-130

LOCATION

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

TOWNSHIP-RANGE

15N 026E 16 NW OF NW
 B&M: NEW MEXICO PRINCIPAL

COORDINATES

LAT/LONG... 35-32.2 N 106-50.7 W

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...	5.2	S....	
AL....	0.007	CR....		MG...	65.	SB...	
AS....		CS....	0.4	MN...	0.3		
AT....		CU....	0.02				
B....	6.9	F....	4.0	NA...	3000.	SI02.	15.
BE....		FE(TOT)..	0.42	NB...		SO4..	2000.
BR....		GE....		NI...	0.04		
CA....	399.	HCO3....	1855.				
CA+MG..		MG.....	0.0001				
CL....	2400.						
CO....		K.....	91.	RB...	0.48	ZN...	0.06

ISOTOPES (0/00)

DEL D OF WATER..... -90.1

DEL D(18) OF WATER... -11.22

GAS ANALYSIS

ANALYSIS IN VOLUME %

CH4... L 0.1

C2H6..

CO2... 61.

N2... 32.

ISOTOPES (00/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... TESHIN, VICTOR

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

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

RECORD 00179

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... UNNAMED WARM SPRING SOUTH OF THE RIO SALADO RIVER

GEOTHERM FILE ID# 0001651

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

TOWNSHIP-RANGE

15N 001E 16 NW
 B&M: NEW MEXICO PRINCIPAL

COORDINATES

LAT/LONG... 35-32.1 N 106-50.8 W

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE ON HILLSIDE SOUTH OF THE RIO SALADO RIV R.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1924/09/15

POINT OF COLLECTION.. UNCERTAIN WHICH SPRING WAS SAMPLED

TEMPERATURE (C)..... 29.

DISCHARGE..... L/MIN

PERTINENT LITHOLOGY..... WATER COMES TO SURFACE NEAR CONTACT BETWEEN WINGATE SANDSTONE AND THE CHINLE FORMATION.
DEPOSITS OF CALCAREOUS TUFA AROUND SPRINGS.

WATER ANALYSIS

TOTAL DISSOLVED SOLIDS... 10960.

ANALYSIS IN PPM

AL....	CR.....	MG...	91.		
B....	F.....	NA...		SI02.	15.
BA....	FE+J....	NA+K.	3310.		
BE....	FE(TOT)..	NB...		S04..	3401.
CA....	HC03....	NO3..	T		
CL....					

ISOTOPES (0/00)

GAS ANALYSIS

DATE/ANALYST..... YANT, W.P.

ANALYSIS IN PPM

CH4..	H2S..	N
C2H6.	N2...	2.7
C02..	O2...	0.6

ISOTOPES (00/01)

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... RENICK, 1931

RECORD 00180

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0015255

NAME OF SAMPLE SOURCE... WARM SPRINGS

WELL/SPRING NUMBER..... 16N-001W-01-321

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	16N 001W 01	NW OF NE OF SE	LAT/LONG...	35-38.76 N 106-53.28 W
STATE.....	NEW MEXICO	86M: NEW MEXICO PRINCIPAL			
COUNTY.....	SANDOVAL				
GEOLOGIC PROVINCE..	25				
MAP REFERENCE.....	HOLY GHOST SPRING 1124000				

OTHER LOCALITY INFORMATION: NEAR BM 6021 IN "CHUCHILLA ARROYO".

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1964/03/14

TEMPERATURE (C)..... 54.0

PERTINENT LITHOLOGY..... PROBABLY FROM ROCKS OF MAGDALENA GROUP, ABQ AND CHINLE FORMATIONS.

WATER ANALYSIS

PH..... 7.3
SPECIFIC CONDUCTANCE.... 15300.
TOTAL DISSOLVED SOLIDS... 11000.
CHARGE IMBALANCE (% DIFF)... 0.3

ANALYSIS IN MG/L

AG....	CO3....	N	LI...	6.9	
AL....	CR.....		MG...	56.	
AS....					
B....	F.....	56.	NA...	3550.	SI02.
BE....	FE(TOT)..	3.9	NB...		S04..
CA....	HC03....	1450.			31.
CL....					3260.

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... TESHIN, VICTOR
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... *USGS

RECORD 00181

GEOTERM SAMPLE FILE

GEOTERM FILE 101 0001643

NAME OF SAMPLE SOURCE... BARNET IORIO NO. 1

WELL/SPRING NUMBER..... 14S-05W-25-410

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 14S 005W 25 NW OF SE

STATE..... NEW MEXICO

B&M: NEW MEXICO PRINCIPAL

COUNTY..... SIERRA

GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... WILLIAMSBURG 1:24000

LAT/LONG... 33-03.6 N 107-18.0 W

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

PH..... 7.38

SPECIFIC GRAVITY..... 0.992

SPECIFIC CONDUCTANCE..... 5600.

TOTAL DISSOLVED SOLIDS... 4931.

CHARGE IMBALANCE (% DIFF)... 14.7

ANALYSIS IN PPM

ISOTOPES (0/00)

AG....		COB....	N	LI....	0.91		
AL....	0.038	CR....		MG....	0.46		
AS....	0.015	CS....		MN....	0.25		
AU....		CU....		MO....		SE....	0.074
B....	0.49	F....	3.6	NA....	1280.	SI02.	23.9
BE....		FE(TOT)...	0.18	NB....		SO4..	2721.
BR....	1.73						
CA....	375.	HCO3....	17.				
CL....	262.	I....	0.128				
CO....		K....	7.8				

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

GEOTERM SAMPLE FILE

GEOTERM FILE 101 0001642

NAME OF SAMPLE SOURCE... BERRY WARM SPRINGS

WELL/SPRING NUMBER..... 17S-04W-29-340

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 17S 004W 29 SE OF SW

STATE..... NEW MEXICO

B&M: NEW MEXICO PRINCIPAL

COUNTY..... SIERRA

GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... GARFIELD 1:24000

LAT/LONG... 32-47.72 N 107-16.62 W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1974/12/04

TEMPERATURE (C)..... 33.

DISCHARGE..... L/MIN
WATER ANALYSIS

PH..... 7.2
 SPECIFIC CONDUCTANCE..... 1660.
 CHARGE IMBALANCE (% DIFF)... 0.0
 ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO3....	LI...	0.31		
AL....	CR.....	MG...	15.		
AS....	CS.....	MN... N			
H..... 0.33	F..... 7.3	NA...	300.	SI02.	33.
HE....	FE(TOT).. 0.01	NB...		S04..	290.
HR.... 0.5					
CA.... 45.	HCO3.... 355.				
CD....	H2S.....	PO4..	0.03		
CL.... 170.					
CO....	K..... 18.				

REFERENCE AND IDENTIFICATION

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

RECORD 00183

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0001628

NAME OF SAMPLE SOURCE... GARTON WELL
 WELL/SPRING NUMBER..... 18S-J08E-05-122

LOCATION

12N08E-05COORDINATES

COUNTRY..... UNITED STATES 18S 008E 05 SE OF SE OF NW LAT/LONG... 32-46.2 N 107-41.7 W
 STATE..... NEW MEXICO 8&M NEW MEXICO PRINCIPAL
 COUNTY..... SIERRA
 GEOLOGIC PROVINCE.. 25
 MAP REFERENCE..... HILLSBORO 1162500

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/12/17
 TEMPERATURE (C)..... 34.
 WELL DEPTH (M)..... 301.

DISCHARGE..... L/MIN
WATER ANALYSIS

PH..... 8.0
 SPECIFIC GRAVITY..... Q 1.0
 SPECIFIC CONDUCTANCE..... 10000.
 TOTAL DISSOLVED SOLIDS... 9086.
 CHARGE IMBALANCE (% DIFF)... 4.4
 ANALYSIS IN PPM

ISOTOPES (0/00)

AG....	CO3.... N	LI...	0.32		
AL.... 11.3	CR.....	MG...	176.		
AS.... 0.015	CS.....	MN...	0.3		
AU....	CU.....	MO...		SE... N	
H..... 1.2	F..... 2.9	NA...	2225.	SI02.	30.
HE....	FE(TOT).. 0.68	NB...		S04..	2854.
HR.... 4.9					
CA.... 745.	HCO3.... 120.	NO3.. N			
CD....	H2S.....	PO4.. N			
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

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001644

NAME OF SAMPLE SOURCE... TRUTH OR CONSEQUENCES
 WELL/SPRING NUMBER..... 13S-04W-33-000

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 13S 004W 33
 STATE..... NEW MEXICO B&M NEW MEXICO PRINCIPAL
 COUNTY..... SIERRA
 GEOLOGIC PROVINCE.. 26
 MAP REFERENCE..... CUCHILLO 1124000

LAT/LONG... 33-08.1 N 107-15.2 W

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

PH..... 6.7
 SPECIFIC CONDUCTANCE..... 4500.
 CHARGE IMBALANCE (% DIFF)... 0.8

ANALYSIS IN PPM

ISOTOPES (0/001)

AG....		CO3..... N	LI... 1.5			
AL.... 0.02		CR.....	MG... 18.8			
AS....		CS.....	MN... 0.1			
H.... 0.2		F..... 3.5	NA... 742.	SI02. 41.		
HE....		FE(TOT). 0.39	NB... 504..	120.		
HR.... N						
CA.... 175.	HCO3.... 250.	NO3.. 0.72				
CL.... 1340.						
CO....	K..... 57.					

REFERENCE AND IDENTIFICATION

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

RECORD 00185

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001806

NAME OF SAMPLE SOURCE... UNNAMED SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO B&M NEW MEXICO PRINCIPAL
 COUNTY..... SIERRA
 GEOLOGIC PROVINCE.. 25
 MAP REFERENCE..... HILLSBORO 1124000

LAT/LONG... 32-57.18 N 107-34.80 W

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 35.

REFERENCE AND IDENTIFICATION

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 LAND AND CATTLE CO. NO. 1
 WELL/SPRING NUMBER..... 105-01W-25-100
 LOCATION
 COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SIERRA
 GEOLOGIC PROVINCE.. 26

COORDINATES

LAT/LONG... 33-24.0 N 106-54.0 W

MAP REFERENCE..... MALPAIS WELL 1162500
 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

PH..... 7.2
 SPECIFIC CONDUCTANCE..... 2600.

ANALYSIS IN MG/L

HE..... FE(TOT). NB... 504.. 1660.
 CA..... HCO3..... 136.

ISOTOPIES (0/001)

CL..... 22-

REFERENCE AND IDENTIFICATION

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

RECORD 00187

GEOtherm SAMPLE FILE

GEOtherm FILE ID: 0001814

NAME OF SAMPLE SOURCE... WARM SPRINGS
 LOCATION

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 33-16.74 N 107-33.78 W

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 SAMPLE FILE

GEOtherm FILE ID: 0070902

NAME OF SAMPLE SOURCE... ARMS. & ARMS. CONS WELL
 WELL/SPRING NUMBER..... 015-01W-22-244

LOCATION

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 34-12.6 N 106-55.38 W

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO

B&M: NEW MEXICO PRINCIPAL

COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. UROGRANDE BASIN
 MAP REFERENCE..... LEMITAR 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

H.....	F.....	0.3	NA...	554.	SI02.	50.
HE.....	FE(TOT)...		NB...		S04..	861.
CA.....	HC03.....	196.				
CL.....		1180.				

ISOTOPES (0/00)

QUALIFICATION FIELD..... PUMPED

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00189

GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0070915

NAME OF SAMPLE SOURCE... RENAVIDEZ WELL

WELL/SPRING NUMBER..... 025-01W-36-341

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	02S 001W 36	NW OF SE OF SW	LAT/LONG...	34-05.30 N 106-53.35 W
STATE.....	NEW MEXICO	B&M: NEW MEXICO PRINCIPAL			
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.....	MG...	67.
H.....	F.....	NA...	378.
HE.....	FE(TOT)...	NB...	
CA.....	HC03.....		504.. 1000.
CL.....			

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00190

GEOTHERM FILE 101 0070903

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... CAMPBELL WELL

WELL/SPRING NUMBER..... 01S-01W-22-324

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES

01S 001W 22 SE OF NE OF SW

LAT/LONG... 34-11.62 N 106-55.82 W

STATE..... NEW MEXICO

R&M: NEW MEXICO PRINCIPAL

COUNTY..... SOCORRO

GEOLOGIC PROVINCE.. UROGRANDE BASIN

MAP REFERENCE..... LEMITAR 1:24000

OTHER LOCALITY INFORMATION: ALTITUDE 4750 FT.

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 11

TEMPERATURE (C)..... 21.

WELL DEPTH (M)..... 54.

OTHER SAMPLE INFORMATION.. STOCK USE.

WATER ANALYSIS

PH..... 7.5

TOTAL DISSOLVED SOLIDS... 1538.

ANALYSIS IN PPM

ISOTOPIES (0/001)

AL.....

CR.....

MG...

49.

H.....

F.....

NA...

264.

HE.....

FE(TOT)...

NB...

S04..

500.

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

RECORD 00191

GEOTHERM FILE 101 0070927

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... CHAVEZ WELL

WELL/SPRING NUMBER..... 03S-01W-13-411

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES

03S 001W 13 NW OF NW OF SE

LAT/LONG... 34-02.94 N 106-53.68 W

STATE..... NEW MEXICO

R&M: NEW MEXICO PRINCIPAL

COUNTY..... SOCORRO

GEOLOGIC PROVINCE.. UROGRANDE BASIN

MAP REFERENCE..... SOCORRO 1:24000

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..... 7.6

TOTAL DISSOLVED SOLIDS... 658.

ANALYSIS IN PPM

ISOTOPIES (0/001)

AL.....

CR.....

MG...

12.

H.....

F.....

NA...

153.

HE.....

FE(TOT)...

NB...

S04..

100.

CA.... 69. HCO3.... 376.
 CL.... 56.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00192

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0070928

NAME OF SAMPLE SOURCE... CIBOLA NATIONAL FOREST WELL

WELL/SPRING NUMBER..... 03S-03W-26-113

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 03S 03W 26 SW OF NW OF NW LAT/LONG... 34-01.5 N 107-07.82 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... SOCORRO

GEOLOGIC PROVINCE.. ORUGRANDE 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

ISOIOPES 18/881

AG.... CO3.... 10.
 AL.... CR.... MG... 9.
 H.... F.... NA... 15.
 ME.... FE(TOT). NB... 504.. 20.
 CA.... 54. HCO3.... 188.

CL.... H.

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00193

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0070912

NAME OF SAMPLE SOURCE... DELONG WELL

WELL/SPRING NUMBER..... 02S-01W-36-312

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02S 001W 36 NE OF NW OF SW LAT/LONG... 34-05.40 N 106-54.05 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... SOCORRO

GEOLOGIC PROVINCE.. ORUGRANDE BASIN

MAP REFERENCE..... SOCORRO 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....	CR.....	MG...	12.		
H.....	F.....	NA...	37.		
HE.....	FE(TOT)...	NB...		504..	56.
CA.... 40.	HC03.... 171.				
CL.... 22.					

ISOTOPES (0/00)REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00194

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0070907

NAME OF SAMPLE SOURCE... DUKE WELL

WELL/SPRING NUMBER..... 025-01W-11-114

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY.....	UNITED STATES	025 001W 11	SE OF NW OF NW	LAT/LONG...	34-09.35 N 106-55.08 W
STATE.....	NEW MEXICO	B&M: NEW MEXICO PRINCIPAL			
COUNTY.....	SOCORRO				
GEOLOGIC PROVINCE..	URUGRANDE 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....	CR.....	MG...	26.		
H.....	F.....	NA...	85.		
HE.....	FE(TOT)...	NB...		504..	240.
CA.... 121.	HC03.... 307.				
CL.... 64.					

ISOTOPES (0/00)REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00195

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0070926

NAME OF SAMPLE SOURCE... FAIR GROUNDS WELL

WELL/SPRING NUMBER..... 035-01W-24-320

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY.....	UNITED STATES	035 001W 24	NE OF SW	LAT/LONG...	34-01.95 N 106-54.18 W
STATE.....	NEW MEXICO	B&M: NEW MEXICO PRINCIPAL			
COUNTY.....	SOCORRO				
GEOLOGIC PROVINCE..	URUGRANDE BASIN				
MAP REFERENCE.....	SOCORRO 1:24000				

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

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 NA... 52. SI02. 40.
 ME..... FE(TOT). NB... S04.. 49.
 CA..... HCO3.... 186.
 CL..... 18.
 CO..... K..... 3.4

ISOTOPES (0/001)

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00196

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID# 0070929

NAME OF SAMPLE SOURCE... FRANK FERNANDEZ WELL
 WELL/SPRING NUMBER..... 04S-01E-16-322

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 04S 001E 16 NE OF NE OF SW LAT/LONG... 33-57.65 N 106-50.67 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. UROGRANDE BASIN
 MAP REFERENCE..... SAN ANTONIO 1162500
 OTHER LOCALITY INFORMATION: ALTITUDE 4575 FT.

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1952/05/23
 SAMPLE NUMBER..... 512
 TEMPERATURE (C)..... 20.
 OTHER SAMPLE INFORMATION.. DOMESTIC USE.

WATER ANALYSIS

TOTAL DISSOLVED SOLIDS... 384.
 ANALYSIS IN PPM
 CL..... 20.

ISOTOPES (0/001)

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00197

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID# 0070914

NAME OF SAMPLE SOURCE... GALLEGOS WELL
 WELL/SPRING NUMBER..... 02S-01W-36-314

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02S 001W 36 SE OF NW OF SW LAT/LONG... 34-05.39 N 106-54.06 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. UROGRANDE BASIN

MAP REFERENCE..... SOCORRO 1124000
 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....	CR.....	MG...	12.	
B.....	F.....	NA...	46.	
BE....	FE(TOT).	NB...		
CA.... 46.	HC03.... 195.			S04.. 56.
CL.... 22.				

ISOTOPES 10/001

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00198

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0070925

NAME OF SAMPLE SOURCE... GEORGE SICKLES WELL

WELL/SPRING NUMBER..... 035-01W-13-243

LOCATION

COUNTRY-RANGE

COORDINATES

COUNTRY..... UNITED STATES 035 001W 13 SW OF SE OF NE LAT/LONG... 34-03.00 N 106-53.95 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. OROGRANDE BASIN

MAP REFERENCE..... SOCORRO 1124000

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....	CR.....	MG...	16.	
B.....	F.....	NA...	190.	
BE....	FE(TOT).	NB...		
CA.... 82.	HC03.... 360.			S04.. 228.
CL.... 104.				

ISOTOPES 10/001

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00199

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0070930

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.. UROGRANDE BASIN
 MAP REFERENCE..... RILEY 1162500
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

TOWNSHIP-RANGE

01N 002W 07 SW OF NW
 B&M: NEW MEXICO PRINCIPAL

COORDINATES

LAT/LONG... 34-19.5 N 107-05.7 W

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

PH..... 7.2

ANALYSIS IN PPM

AL.....	CR.....	MG...	32.		
HA.....	FE+3....	NA+K.	792.		
HE.....	FE(TOT).	NB...		504..	492.
CA..... 171.	HCO3..... 383.				
CL..... 1032.					

ISOTOPES (0/00)

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..... 025-02W-18-112

LOCATION

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. UROGRANDE BASIN
 MAP REFERENCE..... MAGDALENA 1162500
 OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

TOWNSHIP-RANGE

02S 002W 18 NE OF NW OF NW
 B&M: NEW MEXICO PRINCIPAL

COORDINATES

LAT/LONG... 34-08.5 N 107-05.5 W

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 190
 TEMPERATURE (C)..... 20.
 WELL DEPTH (M)..... 46.
 OTHER SAMPLE INFORMATION.. DOMESTIC USE.

WATER ANALYSIS

PH..... 7.8
 TOTAL DISSOLVED SOLIDS... 168.

ANALYSIS IN PPM

AL.....	CR.....	MG...	8.		
H.....	F.....	NA...	32.		
HE.....	FE(TOT).	NB...		504..	20.
CA..... 34.	HCO3..... 181.				
CL..... 12.					

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00201

GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0070920

NAME OF SAMPLE SOURCE... GRAY WELL (2)
WELL/SPRING NUMBER..... 02S-03W-11-333

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02S 003W 11 SW OF SW OF SW LAT/LONG... 34-08.63 N 107-07.83 W
STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
COUNTY..... SOCORRO
GEOLOGIC PROVINCE.. UROGRANDE 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.

WATER ANALYSIS

PH..... 7.9
TOTAL DISSOLVED SOLIDS... 168.

ANALYSIS IN PPM

ISOTOPES 10/001

AL..... CR..... MG... 7.
B..... F..... NA... 32.
BE..... FE(TOT)... NU... 504.. 22.
CA... 30. HCO3.... 161.
CL..... 12.

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00202

GEOTHERM SAMPLE FILE

GEOTHERM FILE 101 0070921

NAME OF SAMPLE SOURCE... GRAY WELL (2)
WELL/SPRING NUMBER..... 02S-03W-11-333

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02S 003W 11 SW OF SW OF SW LAT/LONG... 34-08.63 N 107-07.83 W
STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
COUNTY..... SOCORRO
GEOLOGIC PROVINCE.. UROGRANDE 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.

WATER ANALYSIS

PH..... 7.9
SPECIFIC CONDUCTANCE..... 200.
CHARGE IMBALANCE (% DIFF)... 1.0

ANALYSIS IN PPM

ISOTOPES 10/001

AL..... CR..... MG... 4.1
B..... F..... NA... 19. 5102. 27.

HE.... FE(TOT).. 0.11 NB... S04.. 17.
 CA.... 39. HCO3.... 132.
 CL.... 4.4
 CO.... 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 SAMPLE FILE

GEOTHERM FILE ID: 0070900

NAME OF SAMPLE SOURCE... HIGGINS WELL
 WELL/SPRING NUMBER..... 015-01W-14-334

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 015 001W 14 SE OF SW OF SW LAT/LONG... 34-13.0 N 106-55.0 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... SOCORRO
 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

PH..... 7.5
 TOTAL DISSOLVED SOLIDS... 2810.
 ANALYSIS IN PPM

ISOTOPES (0/001)

AL.... CR..... MG... 96.
 H.... F..... NA... 519.
 HE.... FE(TOT).. NB... S04.. 800.
 CA.... 259. HCO3.... 264.
 CL.... 796.

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00204

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0070922

NAME OF SAMPLE SOURCE... J. COURTNEY WELL
 WELL/SPRING NUMBER..... 025-03W-27-223

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 025 003W 27 SW OF NE OF NE LAT/LONG... 34-06.40 N 107-08.17 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... SOCORRO
 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.
 WELL DEPTH (M)..... 128.

OTHER SAMPLE INFORMATION.. DOMESTIC USE.
WATER ANALYSIS

PH..... 7.8
TOTAL DISSOLVED SOLIDS... 206.
ANALYSIS IN PPM

AL....	CR.....	MG...	10.		
H.....	F.....	NA...	18.		
HE....	FE(TOT).	NH...		504..	22.
CA.... 44.	HCO3.... 166.				
CL.... 22.					

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00205

GEOTERM SAMPLE FILE

GEOTERM FILE 101 0070919

NAME OF SAMPLE SOURCE... LA TOSSA WELL
WELL/SPRING NUMBER..... 02S-03W-07-433

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02S 003W 07 SW OF SW OF SE LAT/LONG... 34-06.7 N 107-05.2 W
STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

COUNTY..... SUCURRO
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....	CR.....	MG...	15.		
HE....	FE(TOT).	NH...		504..	28.
CA.... 67.	HCO3.... 234.				
CL.... 20.					
CO....	K..... 10.				

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00206

GEOTERM SAMPLE FILE

GEOTERM FILE 101 0070905

NAME OF SAMPLE SOURCE... MARTIN WELL
WELL/SPRING NUMBER..... 01S-01W-34-422

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 01S 001W 34 NE OF NE OF SE LAT/LONG... 34-10.67 N 106-55.65 W
STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

COUNTY..... SUCURRO
GEOLOGIC PROVINCE.. OROGRANDE BASIN

MAP REFERENCE..... LEMITAR 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.... CR..... MG... 15.

H.... F..... NA... 58.

FE.... FE(TOT)... NB...

CA.... 86. HCO3.... 190.

CL.... 52.

ISOTOPES (QZ001)

S04.. 152.

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00207

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0070908

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

WELL/SPRING NUMBER..... 025-01W-22-143

LOCATION

1000012-80000

COORDINATES

COUNTRY..... UNITED STATES 025 001W 22 SW OF SE OF NW

STATE..... NEW MEXICO B&M NEW MEXICO PRINCIPAL

COUNTY..... SOCORRO

GEOLOGIC PROVINCE.. OROGRANDE BASIN

MAP REFERENCE..... SOCORRO 1124000

LAT/LONG... 34-07.3 N 106-56.0 W

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.... CR..... MG... 24.

H.... F..... NA... 96.

FE.... FE(TOT)... NB...

CA.... 67. HCO3.... 224.

CL.... 28.

ISOTOPES (QZ001)

S04.. 240.

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00208

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0070924

NAME OF SAMPLE SOURCE... NMIMIKES, TASKW WELL

WELL/SPRING NUMBER..... 035-01W-10-243

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 035 001W 10 SW OF SE OF NE
 STATE..... NEW MEXICO B&M NEW MEXICO PRINCIPAL
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. OROGRANDE BASIN
 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 SAMPLE FILE

GEOTHERM FILE ID: 0001820

NAME OF SAMPLE SOURCE... OJITOS SPRINGS

LOCATION

TOWNSHIP-RANGE

COORDINATES

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 SAMPLE FILE

GEOTHERM FILE ID: 0001813

NAME OF SAMPLE SOURCE... OJO CALIENTE

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. 26
 MAP REFERENCE..... MONTOYA 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 SAMPLE FILE

GEOTHERM FILE ID: 0001821

NAME OF SAMPLE SOURCE... OJO DE LAS CANAS

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. Z6
 MAP REFERENCE..... LOMA DE LAS CANAS 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 26.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R. & BROOK, C.
 REFERENCE..... BERRY AND OTHERS, 1980

LAT/LONG... 34-01.92 N 106-46.62 W

RECORD 00212

GEO THERM SAMPLE FILE

GEOTHERM FILE 101 0070916

NAME OF SAMPLE SOURCE... OTERO WELL
 WELL/SPRING NUMBER..... 02S-01W-36-341

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02S 001W 36 NW OF SE OF SW LAT/LONG... 34-05.9 N 106-53.9 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. URUGRANDE BASIN
 MAP REFERENCE..... SOCORRO 1124000

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

PH..... 7.5
 TOTAL DISSOLVED SOLIDS... 284.
 ANALYSIS IN PPM

ISOTOPES (0/00)

AL.....	CR.....	MG...	13.		
H.....	F.....	NA...	41.		
HE.....	FE(TOT)...	NB...		504..	60.
CA..... 42.	MCU3..... 185.				
CL..... 24.					

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00213

GEO THERM SAMPLE FILE

GEOTHERM FILE 101 0070911

NAME OF SAMPLE SOURCE... PURDUE WELL
 WELL/SPRING NUMBER..... 02S-01W-36-142

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02S 001W 36 NE OF SE OF NW LAT/LONG... 34-05.9 N 106-53.9 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. URUGRANDE BASIN
 MAP REFERENCE..... SOCORRO 1124000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 134

TEMPERATURE (C)..... 22.
 OTHER SAMPLE INFORMATION.. WATER UNUSED.
 WATER ANALYSIS

PH..... 7.4
 TOTAL DISSOLVED SOLIDS... 206.
 ANALYSIS IN PPM

AL....	CR.....	MG...	8.		
BA....	F.....	NA...	70.		
FE....	FE(TOT)...	NB...		504..	80.
CA.... 37.	HC03.... 195.				
CL.... 24.					

ISOTOPES (0/00)REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00214

GEO THERM SAMPLE FILE

GEO THERM FILE 101 0070932

NAME OF SAMPLE SOURCE... SEDILLA SPRING
 WELL/SPRING NUMBER..... 03S-01W-22-130

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 03S 001W 22 SW OF NW
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. UROGRANDE BASIN
 MAP REFERENCE..... SOCORRO 1124000
 OTHER LOCALITY INFORMATION: ALTITUDE 5000 FT.

LAT/LONG... 34-02.27 N 106-56.30 W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1961/12/12
 SAMPLE NUMBER..... 41
 TEMPERATURE (C)..... 31.

PERTINENT LITHOLOGY..... TERTIARY AQUIFER
 WATER ANALYSIS

PH..... 8.4
 ANALYSIS IN PPM

AG....	CO3.... 5.				
AL....	CR.....	MG...	5.		
BA....	FE+3....	NA+K.	50.		
FE....	FE(TOT)...	NB...		504..	24.
CA.... 18.	HC03.... 154.				
CL.... 10.					

ISOTOPES (0/00)

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 00215

GEO THERM SAMPLE FILE

GEO THERM FILE 101 0070931

NAME OF SAMPLE SOURCE... SEDILLA SPRING
 WELL/SPRING NUMBER..... 03S-01W-22-130

LOCATIONTOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 03S 001W 22 SW OF NW
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL

LAT/LONG... 34-02.27 N 106-56.30 W

COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. UROGRANDE BASIN
 MAP REFERENCE..... SOCORRO 1124000
 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.	SI02. 27.
HE.....	FE(TOT)..	NB... 33.	
CA.....	HCO3.... 159.		
CL..... 14.			
CO.....	K..... 2.9		

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00216

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0070933

NAME OF SAMPLE SOURCE... SEDILLA SPRING
 WELL/SPRING NUMBER..... 035-01W-22-130

LOCATION

TOWNSHIP-RANGECOORDINATES

COUNTRY..... UNITED STATES 03S 001W 22 SW OF NW
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... SOCORRO

LAT/LONG... 34-02.27 N 106-56.30 W

GEOLOGIC PROVINCE.. UROGRANDE BASIN

MAP REFERENCE..... SOCORRO 1124000

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.....	MG... 3.2	
B.....	F..... 0.6	NA... 54.	SI02. 31.
BE.....	FE(TOT).. 0.07	NB... 31.	
CA..... 20.	HCO3.... 164.		
CL..... 12.			
CO.....	K..... 3.0		

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00217

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0070904

NAME OF SAMPLE SOURCE... SEVEDRA WELL
WELL/SPRING NUMBER..... 01S-01W-23-122

LOCATION
COUNTRY..... UNITED STATES TOWNSHIP-RANGE 01S 001W 23 NE OF NE OF NW COORDINATES
STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL LAT/LONG... 34-12.5 N 106-54.9 W
COUNTY..... SOCORRO
GEOLOGIC PROVINCE.. OROGRANDE BASIN
MAP REFERENCE..... LEMITAR 1124000

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....	CR.....	MG...	60.	
H.....	F.....	NA...	647.	
HE....	FE(TOT).	NB...		
CA.... 195.	HC03.... 337.		504..	870.
CL.... 689.				

ISOTOPES (02/001)

REFERENCE AND IDENTIFICATION

COMPILED BY..... MORRIS, GRETA J.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00218

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0070909

NAME OF SAMPLE SOURCE... SLOAN WELL
WELL/SPRING NUMBER..... 02S-01W-25-122

LOCATION
COUNTRY..... UNITED STATES TOWNSHIP-RANGE 02S 001W 25 NE OF NE OF NW COORDINATES
STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL LAT/LONG... 34-06.8 N 106-53.8 W
COUNTY..... SOCORRO
GEOLOGIC PROVINCE.. OROGRANDE BASIN
MAP REFERENCE..... SOCORRO 1124000

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....	CR.....	MG...	23.	
B.....	F.....	NA...	90.	
HE....	FE(TOT).	NB...		
CA.... 122.	HC03.... 244.		504..	260.
CL.... 88.				

ISOTOPES (02/001)

REFERENCE AND IDENTIFICATION

COMPILED BY..... MORRIS, GRETA J.

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.

TOWNSHIP-RANGE

03S 001W 16 SW OF NE OF SW
B&M: NEW MEXICO PRINCIPAL

COORDINATES

LAT/LONG... 34-02.8 N 106-57.1 W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/10/22
TEMPERATURE (C)..... 73.
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....	0.18	F....		NA....	55.	SE....	N
BE....		FE (TOT)...	0.016			SI02....	28.
BR....	0.2						
CA....	27.	HCO3....	124.				
CL....	20.						
CO....		K.....	3.3				

ISOTOPES (0/00)

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.

TOWNSHIP-RANGE

03S 001W 04 SW OF SW OF SE
B&M: NEW MEXICO PRINCIPAL

COORDINATES

LAT/LONG... 34-04.8 N 106-57.0 W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/08/23
TEMPERATURE (C)..... 42.7

DISCHARGE..... L/MIN
PERTINENT LITHOLOGY..... GRANITE
WATER ANALYSIS

PH..... 7.7
SPECIFIC CONDUCTANCE..... 3460.
TOTAL DISSOLVED SOLIDS... 1917.
CHARGE IMBALANCE (% DIFF)... 0.0
ANALYSIS IN PPM

AG....		CO3.....	N				
AL....		CR.....		MG...	2.1		
B.....	0.02	F.....	1.1	NA...	626.	SI02.	23.
FE....		FE(TOT)...	0.27	NB...		S04..	163.
CA....	68.	HCO3....	101.				
CL....	945.						
CO....		K.....	38.				

ISOTOPIES (0/001)

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

RECORD 00221

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001648

NAME OF SAMPLE SOURCE... SOCORRO - SEDILLA GALLERY
WELL/SPRING NUMBER..... 035-V1W-22-131

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	035 001W 22	NW OF SW OF NW	LAT/LONG...	34-02.27 N 106-56.33 W
STATE.....	NEW MEXICO	B&M NEW MEXICO PRINCIPAL			
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
WATER ANALYSIS

PH..... 7.9
SPECIFIC CONDUCTANCE..... 352.
TOTAL DISSOLVED SOLIDS... 237.
CHARGE IMBALANCE (% DIFF)... 0.4
ANALYSIS IN PPM

AG....		CO3.....	N				
AL....		CR.....		MG...	3.2		
B.....	0.08	F.....	0.6	NA...	54.	SI02.	31.
FE....		FE(TOT)...	0.07	NB...		S04..	31.
CA....	20.	HCO3....	164.	N03..	1.0		
CL....	12.						
CO....		K.....	3.0				

ISOTOPIES (0/001)

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

RECORD 00222

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001649

NAME OF SAMPLE SOURCE... SOCORRO - SOCORRO GALLERY
 WELL/SPRING NUMBER..... 035-01W-22-113
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... NEW MEXICO 03S 001W 22 SW OF NW OF NW COORDINATES
 COUNTY..... SOCORRO B&M: NEW MEXICO PRINCIPAL LAT/LONG... 34-02.27 N 106-56.33 W
 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.... 3. LI... 0.06
 AL.... N CR.... MG... 4.0
 AS.... 0.02 CS.... MN... 0.06
 AU.... CU....
 B.... 0.03 F.... NA... 53. SE... N
 BR.... 0.38 SI02. 21.
 CA.... 15. 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

ISOTOPES (0/001)

RECORD 00223

 GEOTHERM SAMPLE FILE
 NAME OF SAMPLE SOURCE... UNNAMED BADGER CATLE CO. WELL (1)
 WELL/SPRING NUMBER..... 015-03W-33-433
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... NEW MEXICO 01S 003W 33 SW OF SW OF SE COORDINATES
 COUNTY..... SOCORRO B&M: NEW MEXICO PRINCIPAL LAT/LONG... 34-10.4 N 107-09.32 W
 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..... 7.7
 TOTAL DISSOLVED SOLIDS... 190.
 ANALYSIS IN PPM
 AL.... CR....
 MG... 8.
ISOTOPES (0/001)

GEOTHERM FILE ID: 0070906

H..... F..... NA... 23.
 HE..... FE(TOT). NB... S04.. 18.
 CA.... 34. HCO3.... 156.
 CL.... 14.

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00224

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0070918

NAME OF SAMPLE SOURCE... UNNAMED BADGER CATTLE CO. WELL (2)

WELL/SPRING NUMBER..... 02S-V3W-01-322

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02S 003W 01 NE OF NE OF SW LAT/LONG... 34-09.08 N 107-05.25 W
 STATE..... NEW MEXICO 36M: NEW MEXICO PRINCIPAL
 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.

WATER ANALYSIS

PH..... 7.9

TOTAL DISSOLVED SOLIDS... 150.

ANALYSIS IN PPM

AL.... CR..... MG... 7.
 H..... F..... NA... 35.
 HE..... FE(TOT). NB... S04.. 18.
 CA.... 26. HCO3.... 161.
 CL.... 14.

ISOTOPES (0/001)

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00225

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001819

NAME OF SAMPLE SOURCE... UNNAMED SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO 36M: NEW MEXICO PRINCIPAL
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. 26
 MAP REFERENCE..... SAN ACACIA 1124000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 21.

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R. & BROOK, C.
 REFERENCE..... HERRY AND OTHERS, 1980

RECORD 00226

GEO THERM SAMPLE FILE

GEOTHERM FILE 101 0001833

NAME OF SAMPLE SOURCE... UNNAMED SPRING

LOCATION

TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 34-19.56 N 107-05.70 W

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

B&M: NEW MEXICO PRINCIPAL

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..... BERRY AND OTHERS, 1980

RECORD 00227

GEO THERM SAMPLE FILE

GEOTHERM FILE 101 0001812

NAME OF SAMPLE SOURCE... UNNAMED SPRING

LOCATION

TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 33-48.78 N 106-58.26 W

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

B&M: NEW MEXICO PRINCIPAL

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..... BERRY AND OTHERS, 1980

RECORD 00228

GEO THERM SAMPLE FILE

GEOTHERM FILE 101 0070923

NAME OF SAMPLE SOURCE... UNNAMED WELL-EAST OF SOCORRO PEAK

WELL/SPRING NUMBER..... 03S-01W-04-433

LOCATION

TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 34-04.3 N 106-58.8 W

COUNTRY..... UNITED STATES

03S 001W 04 SW OF SW OF SE

STATE..... NEW MEXICO

B&M: NEW MEXICO PRINCIPAL

COUNTY..... SOCORRO

GEOLOGIC PROVINCE.. ORUGUANTE BASIN

MAP REFERENCE..... SOCORRO 1:24000

OTHER LOCALITY INFORMATION: LOCATION APPROXIMATE

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/08/23

SAMPLE NUMBER..... 367

TEMPERATURE (C)..... 39.

WATER ANALYSIS

PH..... 7.1

SPECIFIC CONDUCTANCE..... 3460.

CHARGE IMBALANCE (3 DIFF)..... 0.9

ANALYSIS IN PPM

AL.....

CR.....

MO... 2.1

N..... 0.0

F..... 1.1

NA... 626.

SI02. 23.

ISOTOPES 10/2001

ME.... FE(TOT). 0.27 NB... S04.. 163.
 CA.... 60. HCO3.... 83.
 CL.... 945.
 CO.... K..... 38.

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, 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

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02S 001W 36 SE OF SW OF NW LAT/LONG... 34-05.9 N 106-54.1 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. OROGRANDE BASIN
 MAP REFERENCE..... SOCORRO 1124000

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..... MG... 11.

H.... F..... NA... 45.

ME.... FE(TOT). NB... S04.. 60.

CA.... 38. HCO3.... 176.

CL.... 22.

ISOTOPES (0/00)

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00230

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0070913

NAME OF SAMPLE SOURCE... V. GONZALES WELL

WELL/SPRING NUMBER..... 02S-01W-36-314

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 02S 001W 36 SE OF NW OF SW LAT/LONG... 34-05.9 N 106-54.0 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... SOCORRO
 GEOLOGIC PROVINCE.. OROGRANDE BASIN
 MAP REFERENCE..... SOCORRO 1124000

OTHER LOCALITY INFORMATION: ALTITUDE 4620 FT.

SAMPLE DESCRIPTION AND CONDITIONS

SAMPLE NUMBER..... 146

TEMPERATURE (C)..... 22.

WELL DEPTH (M)..... 27.

OTHER SAMPLE INFORMATION.. DOMESTIC USE.
WATER ANALYSIS

PH.....	7.6
TOTAL DISSOLVED SOLIDS...	254.
ANALYSIS IN PPM	

AL....		CR....		MG....	13.		
R.....		F.....		NA....	39.		
HE....		FE(TOT).		NB....		S04..	48.
CA.....	38.	HC03....	185.				
CL.....	22.						

ISOLOPES 10/001

REFERENCE AND IDENTIFICATION

COMPILED BY..... ORRIS, GRETA J.
COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... CLARK AND SUMMERS, 1971

RECORD 00231

GEO THERM SAMPLE FILE

GEOTHERM FILE ID: 0001613

NAME OF SAMPLE SOURCE... MAMBY (AMERICAN) HOT SPRINGS
WELL/SPRING NUMBER..... 26N-11E-01-120

LOCATION

TOWNSHIP=RANGE

COUNTRY..... UNITED STATES
STATE..... NEW MEXICO

COORDINALES

LAT/LONG... 36-30.99 N 105-43.42 E

COUNTY..... TAUS
GEOLOGIC PROVINCE.. 26
MAP REFERENCE..... ARROYO HONDO 112400

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1974/12/03
TEMPERATURE (C)..... 34.
DISCHARGE..... 114. L/MIN

PERTINENT 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 MO/L

AG....		CO3.....	N	LI...	0.29		
AL....		CR.....		MG...	5.7		
AS....		CS.....		MN...	N		
H.....	0.47	F.....	3.8	NA...	130.	SI02.	58.
FE.....		FE(10F)...	0.04	Nb...		SO4..	130.
HR....	0.5						
CA....	27.	HCO3.....	202.				
CO....		H2S.....		PO4..	0.09		
CL....	56.						
CD....		K.....	9.2				

ISOIOPES (0/00)

REFERENCE AND IDENTIFICATION

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

RECORD 00232

GEORGE J. SIMPLETILE

GEOTHERM FILE ID: 0001610

NAME OF SAMPLE SOURCE... OJO CALIENTE (JOSEPH'S HOT SPRING)
 WELL/SPRING NUMBER..... 24N-00E-24-110
 LOCATION
 COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... NEW MEXICO 24N 00E 24 NW OF NW
 COUNTY..... TAUS B&M NEW MEXICO PRINCIPAL
 GEOLOGIC PROVINCE.. 26
 MAP REFERENCE..... OJO CALIENTE 1:24000

COORDINATES

LAT/LONG... 36-18.3 N 106-03.2 W

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.I..... 6.65

CHARGE IMBALANCE (% DIFF)... 3.8

ANALYSIS IN PPM

AG....		CO3..... N	LI....	4.3		
AL....	0.03	CR.....	MG....	8.5		
AS....		CS.....	MN....	0.15		
B....	1.0	F.....	NA....	980.	SI02.	55.
BR....	0.66	FE(TOT)..	NB....		S04..	149.
CA....	29.	HC03....	NO3..	0.12		
CL....	237.					
CO....		K.....				

ISOTOPES (0/001)

REFERENCE AND IDENTIFICATION

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

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... SUMMERS, 1976

RECORD 00233

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001612

NAME OF SAMPLE SOURCE... PONCE DE LEON HOT SPRINGS

WELL/SPRING NUMBER..... 24N-13E-07-000

LOCATION

COUNTRY..... UNITED STATES TOWNSHIP-RANGE
 STATE..... NEW MEXICO 24N 013E 07
 COUNTY..... TAUS B&M NEW MEXICO PRINCIPAL
 GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... RANCHOS DE TAUS 1:24000

COORDINATES

LAT/LONG... 36-19.42 N 105-36.36 W

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1965/12/05

TEMPERATURE (C)..... 34.5

DISCHARGE..... 530.

WATER ANALYSIS

P.I..... 8.14

SPECIFIC CONDUCTANCE..... 740.

TOTAL DISSOLVED SOLIDS... 486.

ANALYSIS IN PPM

AG....		CO3..... N	LI....	0.27
AL....		CR.....	MG....	0.48
AS....	0.007	CS.....	MN....	0.11

ISOTOPES (0/001)

AD.....		CO.....		MO....	SE...	0.033
H.....	0.5	F.....	3.1	NA....	SI02.	86.
HE.....		FE (TOT).	0.01			
HR.....	2.1					
CA.....	12.	HCO3.....	76.			
CD.....		H2S.....		PO4..	N	
CL.....	78.	I.....	0.015			
CO.....		K.....	4.6			

REFERENCE AND IDENTIFICATION

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

RECORD 00234

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001611

NAME OF SAMPLE SOURCE... PONCE DE LEON HOT SPRINGS
 WELL/SPRING NUMBER..... 24N-13E-07-000

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	24N 01E 07	LAT/LONG...	36-19.42 N 105-36.36 W
STATE.....	NEW MEXICO	06M1 NEW MEXICO PRINCIPAL		
COUNTY.....	TAOS			
GEOLOGIC PROVINCE..	SAN LOUIS BASIN			
MAP REFERENCE.....	RANCHOS DE TAOS 1:24000			

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1974/12/03
 TEMPERATURE (C)..... 34.
 PERTINENT LITHOLOGY..... GRANITE
 OTHER SAMPLE INFORMATION.. MAX TEMP 35 C/TOTAL DISCHARGE FOR GROUP 908 L/MIN; FAULT ZONE

WATER ANALYSIS

PH..... 7.2
 CHARGE IMBALANCE (% DIFF)... 4.4

ANALYSIS IN PPM

AG.....		CO3.....		LI...	0.36		
AL.....	0.02	CR.....		MG...	0.5		
AS.....		CS.....		MN...	0.1		
H.....	0.45	F.....	12.5	NA...	164.	SI02.	50.
HE.....		FE (TOT).	0.04	NB...		S04..	118.
HR.....	0.32						
CA.....	11.	HCO3.....	104.	NO3..	0.13		
CL.....	96.						
CO.....		K.....	3.8				

ISOTOPES (D/00)

REFERENCE AND IDENTIFICATION

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

RECORD 00235

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001614

NAME OF SAMPLE SOURCE... UNNAMED SPRING
 WELL/SPRING NUMBER..... 27N-12E-36-411

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY.....	UNITED STATES	27N 01E 36	NW OF NW OF SE	LAT/LONG...	36-31.7 N 105-42.8 W
STATE.....	NEW MEXICO	06M1 NEW MEXICO PRINCIPAL			
COUNTY.....	TAOS				

GEOLOGIC PROVINCE... 26
 MAP REFERENCE..... ARROYO HONDO 1124000
 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..... 8.49
 SPECIFIC GRAVITY..... 0 0.991
 SPECIFIC CONDUCTANCE..... 740.
 ANALYSIS IN PPM

AG....		CO3....	3.	LI....	0.28		
AL....	2.4	CR....		MG....	4.9		
AS....	0.011	CS....		MN....	0.11		
AU....		CU....		MO....		SE... N	
B....	0.18	F....	2.3	NA....	130.	SI02.	103.
BE....		FE(TOT)...	0.047				
BR....	2.3						
CA....	29.	HCO3....	181.				
CD....		H2S....		P04.. N			
CL....	55.	I.....	N				
CO....		K.....	12.				

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 00236

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0001837

NAME OF SAMPLE SOURCE... UNNAMED SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 36-31.68 N 105-42.78 W

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... TAOS
 GEOLOGIC PROVINCE.. SAN LUIS BASIN
 MAP REFERENCE..... ARROYO HONDO 1124000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 41.

REFERENCE AND IDENTIFICATION

COMPILED BY..... MARINER, R. & BROOK, C.
 REFERENCE..... BERRY AND OTHERS, 1980

RECORD 00237

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0001836

NAME OF SAMPLE SOURCE... ALAMOS SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 35-03.60 N 107-07.98 W

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... VALENCIA
 GEOLOGIC PROVINCE.. 27

MAP REFERENCE..... MESA GIGANTE 1:24000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 22.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R. & BROOK, C.
 REFERENCE..... HENRY AND OTHERS, 1980

RECORD 00238

GEOTHERM FILE ID: 0001688

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... DENT WINDMILL

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES 07N 019W 15 NW OF SW NW
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... VALENCIA
 GEOLOGIC PROVINCE.. 28

LAT/LONG... 34-50.30 N 108-50.02 W

MAP REFERENCE..... ATARQUE LAKE 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1979/09

TEMPERATURE (C)..... 23.4

WATER ANALYSIS

PH..... 7.2

CHARGE IMBALANCE (% DIFF)... 8.0

ANALYSIS IN PPM

ISOTOPE (00/00)

AG....	CO3....	LI...	0.004		
AL....	CR....	MG...	53.		
AS....	CS....	MN...	0.064		
B....	0.93	F.....	0.6	NA...	61.5
BA....	0.043			SI02..	14.7
BE....		FE (TOT)..	2.6	NB...	S04..
BI....		GA.....		NH4...	309.
CA....	149.33	HCO3....	359.9	SR...	1.4
CL....	39.1				
CO....		N.....	4.87		

REFERENCE AND IDENTIFICATION

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

COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY

REFERENCE..... DEVITTE AND GAMBILL, 1980

RECORD 00239

GEOTHERM FILE ID: 0001823

GEOTHERM SAMPLE FILE

NAME OF SAMPLE SOURCE... EL OJO ESCONDIDO

WATER NUMBER..... 22

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... VALENCIA
 GEOLOGIC PROVINCE.. 26

LAT/LONG... 34-54.18 N 107-05.10 W

MAP REFERENCE..... SOUTH GARCIA 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 23.

REFERENCE AND IDENTIFICATION

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

REFERENCE..... HENRY AND OTHERS, 1980

RECORD 00240

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001827

NAME OF SAMPLE SOURCE... LAGUNA PUEBLO SEEPS

WARNING NUMBER..... 3

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES

LAT/LONG... 34-49.98 N 107-05.46 W

STATE..... NEW MEXICO

B&M: NEW MEXICO PRINCIPAL

COUNTY..... VALENCIA

GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... SOUTH GARCIA 1124000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 28.

REFERENCE AND IDENTIFICATION

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

REFERENCE..... HERRY AND OTHERS, 1980

RECORD 00241

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001825

NAME OF SAMPLE SOURCE... LAGUNA PUEBLO SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES

LAT/LONG... 34-51.24 N 107-05.28 W

STATE..... NEW MEXICO

B&M: NEW MEXICO PRINCIPAL

COUNTY..... VALENCIA

GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... SOUTH GARCIA SE 1124000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 27.

REFERENCE AND IDENTIFICATION

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

REFERENCE..... HERRY AND OTHERS, 1980

RECORD 00242

GEO THERM SAMPLE FILE

GEO THERM FILE ID: 0001669

NAME OF SAMPLE SOURCE... SACRED SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

COUNTRY..... UNITED STATES

08N 020W 20 NE OF NE SE

LAT/LONG... 34-54.50 N 108-57.53 W

STATE..... NEW MEXICO

B&M: NEW MEXICO PRINCIPAL

COUNTY..... VALENCIA

GEOLOGIC PROVINCE.. 28

MAP REFERENCE..... OLD CALIENTE RESERVOIR 1124000

SAMPLE DESCRIPTION AND CONDITIONS

DATE/COLLECTOR..... 1979/08

TEMPERATURE (C)..... 21.

WATER ANALYSIS

PH..... 7.1

CHARGE IMBALANCE (% DIFF)... 12.1

ANALYSIS IN PPM

ISOTOPES (0/001)

AG.....

CO3.....

LI...

0.156

AL.....

CR.....

MG...

38.5

AS.....

CS.....

MN...

0.001

H.....

0.009

F.....

0.48

NA...

53.

SI02.

17.4

HA.....

0.027

HE....		FE(10T)...	0.03	NB...		S04..	398.
HI....		GA.....		NH4..		SR...	1.14
CA....	144.	HCO3....	317.2				
CL....	33.1						
CO....		K.....	5.2				

REFERENCE AND IDENTIFICATION

COMPILED BY..... BROOK, C.A.
 COMPILER AFFILIATION... U.S. GEOLOGICAL SURVEY
 REFERENCE..... LEVITTE AND GAMBILL, 1980

RECORD 00243

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0001832

NAME OF SAMPLE SOURCE... SPRING

LOCATION

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 34-41.88 N 107-07.74 W

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

B&M: NEW MEXICO PRINCIPAL

COUNTY..... VALENCIA

GEOLOGIC PROVINCE.. 26

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

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0001826

NAME OF SAMPLE SOURCE... SPRING(SALT)

LOCATION

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 34-50.82 N 107-05.46 W

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

B&M: NEW MEXICO PRINCIPAL

COUNTY..... VALENCIA

GEOLOGIC PROVINCE.. 26

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

GEOTHERM SAMPLE FILE

GEOTHERM FILE ID: 0001829

NAME OF SAMPLE SOURCE... SPRING(SALT)

LOCATION

TOWNSHIP-RANGE

COORDINATES

LAT/LONG... 34-48.48 N 107-05.46 W

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

B&M: NEW MEXICO PRINCIPAL

COUNTY..... VALENCIA

GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... SOUTH GARCIA SE 1:24000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 30.

REFERENCE AND IDENTIFICATION

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

REFERENCE..... BERRY AND OTHERS, 1980

RECORD 00246

GEOHEM SAMPLE FILE

GEOHEM FILE ID: 0001831

NAME OF SAMPLE SOURCE... SPRING(SALT)

LOCATION

TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 34-46.14 N 107-05.10 W

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

B&M NEW MEXICO PRINCIPAL

COUNTY..... VALENCIA

GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... SOUTH GARCIA SE 1124000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 26.

REFERENCE AND IDENTIFICATION

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

REFERENCE..... BERRY AND OTHERS, 1980

RECORD 00247

GEOHEM SAMPLE FILE

GEOHEM FILE ID: 0001830

NAME OF SAMPLE SOURCE... UNNAMED SPRING

LOCATION

TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 34-47.46 N 107-05.46 W

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

B&M NEW MEXICO PRINCIPAL

COUNTY..... VALENCIA

GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... SOUTH GARCIA SE 1124000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 27.

REFERENCE AND IDENTIFICATION

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

REFERENCE..... BERRY AND OTHERS, 1980

RECORD 00248

GEOHEM SAMPLE FILE

GEOHEM FILE ID: 0001824

NAME OF SAMPLE SOURCE... UNNAMED SPRING

LOCATION

TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 34-52.98 N 107-05.52 W

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO

B&M NEW MEXICO PRINCIPAL

COUNTY..... VALENCIA

GEOLOGIC PROVINCE.. 26

MAP REFERENCE..... SOUTH GARCIA 1124000

SAMPLE DESCRIPTION AND CONDITIONS

TEMPERATURE (C)..... 23.

REFERENCE AND IDENTIFICATION

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

REFERENCE..... BERRY AND OTHERS, 1980

RECORD 00249

GEOHEM SAMPLE FILE

GEOHEM FILE ID: 0001828

NAME OF SAMPLE SOURCE... UNNAMED SPRING

LOCATION

TOWNSHIP=RANGE

COORDINATES

LAT/LONG... 34-48.90 N 107-23.28 W

COUNTRY..... UNITED STATES

STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... VALENCIA
 GEOLOGIC PROVINCE.. 25
 MAP REFERENCE..... MARION RANCH 1124000
 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 GEOTHERM FILE ID: 0001822
 NAME OF SAMPLE SOURCE... UNNAMED SPRING
 LOCATION TOWNSHIP=RANGE COORDINATES
 COUNTRY..... UNITED STATES LAT/LONG... 34-54.96 N 107-08.58 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... VALENCIA
 GEOLOGIC PROVINCE.. 26
 MAP REFERENCE..... SOUTH GARCIA 1124000
 SAMPLE DESCRIPTION AND CONDITIONS
 TEMPERATURE (C)..... 20.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... MARINER, R. & BROOK, C.
 REFERENCE..... BERRY AND OTHERS, 1980

RECORD 00251

 GEOTHERM SAMPLE FILE GEOTHERM FILE ID: 0001650
 NAME OF SAMPLE SOURCE... UNNAMED WELL
 WELL/SPRING NUMBER..... 06N-03E-05-234
 LOCATION TOWNSHIP=RANGE COORDINATES
 COUNTRY..... UNITED STATES 06N 003E 05 SE OF SW OF NE LAT/LONG... 34-43.8 N 106-43.2 W
 STATE..... NEW MEXICO B&M: NEW MEXICO PRINCIPAL
 COUNTY..... VALENCIA
 GEOLOGIC PROVINCE.. 26
 MAP REFERENCE..... TOME 1124000
 OTHER LOCALITY INFORMATION: LOCATION UNCERTAIN
 SAMPLE DESCRIPTION AND CONDITIONS
 DATE/COLLECTOR..... 1970/05/22
 TEMPERATURE (C)..... 80.
 WELL DEPTH (M)..... 220.
 DISCHARGE..... L/MIN
 WATER ANALYSIS
 PH..... 7.4
 SPECIFIC CONDUCTANCE..... 3450.
 TOTAL DISSOLVED SOLIDS... 3440.
 ANALYSIS IN PPM
 AG.... CO3..... 3.2
 AL.... CR..... MG... 176.
 B.... F..... 0.8 NA... SI02. 29.
 BE.... FE(TOT)... 0.27 NH... S04.. 2090.
 CA.... 415. HCO3.... 51.
 CL.... 42.
 REFERENCE AND IDENTIFICATION
 COMPILED BY..... BROOK, C.A.

ISOTOPES (0/00)

COMPILED AFFILIATION... U.S. GEOLOGICAL SURVEY
REFERENCE..... SUMMERS, 1976

APPENDIX A

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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 preceeding 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	ALLYSON WELL	33-18.42 N	104-27.78 W	11S	024E	25	0070835	20.9
CHAVES	ALLYSON WELL	33-18.42 N	104-27.78 W	11S	024E	25	0070834	20.2
CHAVES	ALLYSON WELL	33-18.42 N	104-27.78 W	11S	024E	25	0070833	20.5
CHAVES	ALLYSON WELL	33-19.13 N	104-27.80 W	11S	024E	25	0070832	20.2
CHAVES	ALLYSON 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			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	HENDRICK WELL	33-22.90 N	104-33.70 W	11S	023E	01	0070825	20.6
CHAVES	JENNINGS 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

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	WHEELER WELL	11S 025E	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	WINDMILL	33-21.67 N 104-56.35 W 11S 020E	15	0070820	20.5
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 NATIONS 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	MENEFFEE 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.

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	MONTEZUMA HOT SPRINGS	35-39.2	N	105-17.4	W	17N	015E	36	0001629	55.
SANDOVAL	BACA 11 - UNION OIL CO.	35-53.	N	106-34.	W	19N	003E	12	0016502	
SANDOVAL	BACA 11 - UNION OIL CO.	35-53.	N	106-34.	W	19N	003E	12	0016501	
SANDOVAL	BACA 11 - UNION OIL CO.	35-53.	N	106-34.	W	19N	003E	12	0016500	
SANDOVAL	BACA 11 - UNION OIL CO.	35-53.	N	106-34.	W	19N	003E	12	0016503	
SANDOVAL	BUDDHIST SPRING	35-46.5	N	106-41.	W				0001748	49.
SANDOVAL	BUDDHIST SPRINGS	35-46.5	N	106-41.	W				0001753	50.
SANDOVAL	GROTTO SPRING	35-47.5	N	106-41.	W	18N	002E		0001745	38.
SANDOVAL	INDIAN SPRINGS	35-35.5	N	106-45.2	W	16N	002E	29	0001655	51.
SANDOVAL	JEMEZ SPRINGS (MAIN ORIFICE)	35-46.5	N	106-41.	W				0001750	55.
SANDOVAL	JEMEZ SPRINGS (MAIN ORIFICE)	35-46.5	N	106-41.	W				0001755	35.5
SANDOVAL	JEMEZ SPRINGS (OJOS CALIENTES)	35-47.	N	106-41.	W				0000671	66.0

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
SANDOVAL	KASEMAN NO.1	35-38.1	N	106-51.6	W	16N	001E	08	0001654
SANDOVAL	LASL GT-2-LOS ALAMOS SCIENTIFIC LAB	35-53.0	N	106-40.4	W	19N	002E	13	0016635
SANDOVAL	LITTLE SPENCE HOT SPRING	35-50.90	N	106-37.80	W	19N	003E	28	0001742
SANDOVAL	MCCAULEY SPRING	35-49.20	N	106-37.61	W	18N	003E	04	0001743
SANDOVAL	MCCAULEY SPRING	35-49.20	N	106-37.61	W	19N	003E	04	0001657
SANDOVAL	PHILLIP'S SPRINGS	35-36.13	N	106-51.55	W	15N	001E	05	0001652
SANDOVAL	SAN ANTONIO HOT SPRINGS	35-56.28	N	106-38.72	W	20N	003E	29	0001658
SANDOVAL	SAN ANTONIO HOT SPRINGS	35-56.33	N	106-38.60	W	20N	003E	29	0001744
SANDOVAL	SAN ANTONIO WARM SPRING	35-58.28	N	106-33.62	W	20N	004E	07	0001659
SANDOVAL	SAN YSIDRO - UNNAMED MINERAL SPRING	35-31.7	N	106-50.8	W	15N	001E	16	0002958
SANDOVAL	SAN YSIDRO - UNNAMED SPRING	35-32.88	N	106-49.62	W				0015254
SANDOVAL	SAN YSIDRO - UNNAMED WARM SPRING	35-32.6	N	106-49.8	W	15N	001E	10	0002960
SANDOVAL	SODA DAM SPRING	35-47.6	N	106-41.1	W	18N	002E	14	0001746
SANDOVAL	SODA DAM SPRING	35-47.5	N	106-41.	W				0001749
SANDOVAL	SODA DAM SPRINGS	35-47.49	N	106-41.18	W	18N	002E	14	0001656
SANDOVAL	SPENCE HOT SPRING	35-50.33	N	106-37.40	W	19N	003E	28	0001741
SANDOVAL	SPRING AT JEMEZ SPRINGS	35-46.32	N	106-41.40	W				0015253
SANDOVAL	SPRING IN CALAVERAS CANYON								0015251
SANDOVAL	SULPHUR SPRINGS - LEMONADE SPRING	35-54.42	N	106-36.92	W	19N	003E	03	0015250
SANDOVAL	TRAVERTINE MOUND SPRING	35-46.5	N	106-41.	W				0001747
SANDOVAL	TRAVERTINE MOUND SPRING	35-46.5	N	106-41.	W				0001754
SANDOVAL	UNNAMED SPRING	35-18.48	N	106-28.26	W				0001835
SANDOVAL	UNNAMED WARM SPRING	35-46.5	N	106-41.	W				0001751
SANDOVAL	UNNAMED WARM SPRING (SOUTH OF SAN YSIDRO PEAK)	35-32.2	N	106-50.7	W	15N	026E	16	0002959
SANDOVAL	UNNAMED WARM SPRING SOUTH OF THE RIO SALADO RIV	35-32.1	N	106-50.8	W	15N	001E	16	0001651
SANDOVAL	WARM SPRINGS	35-38.76	N	106-53.28	W	16N	001W	01	0015255
SIERRA	BARNEY IORIO NO. 1	33-03.6	N	107-18.0	W	14S	005W	25	0001643
SIERRA	DERRY WARM SPRINGS	32-47.72	N	107-16.62	W	17S	004W	29	0001642
SIERRA	GARTON WELL	32-46.2	N	107-41.7	W	18S	008E	05	0001628
SIERRA	TRUTH OR CONSEQUENCES	33-08.1	N	107-15.2	W	13S	004W	33	0001644
SIERRA	UNNAMED SPRING	32-57.18	N	107-34.80	W				0001806
SIERRA	VICTORIA LAND AND CATTLE CO. NO. 1	33-24.0	N	106-54.0	W	10S	001W	25	0001645
SIERRA	WARM SPRINGS	33-16.74	N	107-33.78	W				0001814
SOCORRO	ARMS. & ARMS. CONS WELL	34-12.6	N	106-55.38	W	01S	001W	22	0070902
SOCORRO	BENAVIDEZ WELL	34-05.30	N	106-53.35	W	02S	001W	36	0070915
SOCORRO	CAMPBELL WELL	34-11.62	N	106-55.82	W	01S	001W	22	0070903
SOCORRO	CHAVEZ WELL	34-02.94	N	106-53.68	W	03S	001W	13	0070927
SOCORRO	CIBOLA NATIONAL FOREST WELL	34-01.5	N	107-07.82	W	03S	003W	26	0070928
SOCORRO	DELONG WELL	34-05.40	N	106-54.05	W	02S	001W	36	0070912
SOCORRO	DUKE WELL	34-09.35	N	106-55.08	W	02S	001W	11	0070907
SOCORRO	FAIR GROUNDS WELL	34-01.95	N	106-54.18	W	03S	001W	24	0070926
SOCORRO	FRANK FERNANDEZ WELL	33-57.65	N	106-50.67	W	04S	001E	16	0070929
SOCORRO	GALLEGOS WELL	34-05.39	N	106-54.06	W	02S	001W	36	0070914
SOCORRO	GEORGE SICKLES WELL	34-03.00	N	106-53.95	W	03S	001W	13	0070925
SOCORRO	GRAY AND LIGON RANCH - UNNAMED SPRING	34-19.5	N	107-05.7	W	01N	002W	07	0070930
SOCORRO	GRAY WELL	34-08.5	N	107-05.5	W	02S	002W	18	0070917
SOCORRO	GRAY WELL (2)	34-08.63	N	107-07.83	W	02S	003W	11	0070920
SOCORRO	GRAY WELL (2)	34-08.63	N	107-07.83	W	02S	003W	11	0070921
SOCORRO	HIGGINS WELL	34-13.0	N	106-55.0	W	01S	001W	14	0070900
SOCORRO	J. COURTNEY WELL	34-06.40	N	107-08.17	W	02S	003W	27	0070922
SOCORRO	LA TOSSA WELL	34-08.7	N	107-05.2	W	02S	003W	07	0070919

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	NMIMTRES. 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 - SOCORRO 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	ALAMOS 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 proceeding 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.

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.

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

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.

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	NMINTRES. 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					
		SPRING IN CALAVERAS CANYON	SANDOVAL	0015251	41.0
		TROUT FARM	LINCOLN	0070815	18.
		WHEELER WELL	CHAVES	0070848	17.5
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 MENESEE 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 MIMBRES HOT SPRINGS	GRANT	0001635	62.
32-57.18	N 107-34.80	W UNNAMED SPRING	SIERRA	0001806	35.

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 KENNECOTT 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

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
33-21.00 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.

33-09.7 N 108-12.5 W UNNAMED
 33-11.5 N 108-10.7 W UNNAMED
 33-49.9 N 108-48.0 W UPPER FRISCO HOT SPRINGS
 33-42.5 N 109-01.5 W FREIBORN CANYON SPRING

GRANT 0001622 44.7
 GRANT 0001623 41.
 CATRON 0001616 36.7
 CATRON 0001615 33.3

SOCORRO 1:250,000

34-12.6 N 106-55.38 W ARMS. & ARMS. CONS WELL
 34-05.30 N 106-53.35 W BENAVIDEZ WELL
 34-11.62 N 106-55.82 W CAMPBELL WELL
 34-02.94 N 106-53.68 W CHAVEZ WELL
 34-59.70 N 106-27.24 W CLEAR WATER SPRING
 34-05.40 N 106-54.05 W DELONG WELL
 34-09.35 N 106-55.08 W DUKE WELL
 34-01.95 N 106-54.18 W FAIR GROUNDS WELL
 34-05.39 N 106-54.06 W GALLEGOS WELL
 34-03.00 N 106-53.95 W GEORGE SICKLES WELL
 34-13.0 N 106-55.0 W HIGGINS WELL
 34-10.67 N 106-55.65 W MARTIN WELL
 34-07.3 N 106-55.0 W MARTIN WELL (2)
 34-03.95 N 106-55.42 W NMINTRES. TASKW WELL
 34-06.96 N 106-58.80 W OJITOS SPRINGS
 34-01.92 N 106-46.62 W OJO DE LAS CANAS
 34-05.9 N 106-53.9 W OTERO WELL
 34-05.9 N 106-53.9 W PURDUE WELL
 34-02.27 N 106-56.30 W SEDILLA SPRING
 34-02.27 N 106-56.30 W SEDILLA SPRING
 34-02.27 N 106-56.30 W SEDILLA SPRING
 34-12.5 N 106-54.9 W SEVEDRA WELL
 34-06.8 N 106-53.8 W SLOAN WELL
 34-02.8 N 106-57.1 W SOCORRO - BLUE CANYON WELL
 34-04.8 N 106-57.0 W SOCORRO - CORE HOLE
 34-02.27 N 106-56.33 W SOCORRO - SEDILLA GALLERY
 34-02.27 N 106-56.33 W SOCORRO - SOCORRP GALLERY
 34-15.84 N 106-52.98 W UNNAMED SPRING
 34-43.8 N 106-43.2 W UNNAMED WELL
 34-04.3 N 106-56.8 W UNNAMED WELL-EAST OF SOCORRO PEAK
 34-05.9 N 106-54.1 W UNNAMED WELL-SW OF PUEBLITO PT.
 34-05.9 N 106-54.0 W V. GONZALES WELL
 34-01.5 N 107-07.82 W CIBOLA NATIONAL FOREST WELL
 34-54.18 N 107-05.10 W EL OJO ESCONDIDO
 34-19.5 N 107-05.7 W GRAY AND LIGON RANCH - UNNAMED SPRING
 34-08.5 N 107-05.5 W GRAY WELL
 34-08.63 N 107-07.83 W GRAY WELL (2)
 34-08.63 N 107-07.83 W GRAY WELL (2)
 34-06.40 N 107-08.17 W J. COURTNEY WELL
 34-08.7 N 107-05.2 W LA TOSSA WELL
 34-49.98 N 107-05.45 W LAGUNA PUEBLO SEEPS
 34-51.24 N 107-05.28 W LAGUNA PUEBLO SPRING
 34-41.88 N 107-07.74 W SPRING
 34-50.82 N 107-05.46 W SPRING(SALT)
 34-48.48 N 107-05.46 W SPRING(SALT)
 34-46.14 N 107-05.10 W SPRING(SALT)
 34-10.4 N 107-09.32 W UNNAMED BADGER CATTLE CO. WELL (1)

SOCORRO 0070902 20.
 SOCORRO 0070915 20.
 SOCORRO 0070903 21.
 SOCORRO 0070927 20.
 BERNALILLO 0001818 21.
 SOCORRO 0070912 20.
 SOCORRO 0070907 21.
 SOCORRO 0070926 21.
 SOCORRO 0070914 22.
 SOCORRO 0070925 21.
 SOCORRO 0070900 21.
 SOCORRO 0070905 20.
 SOCORRO 0070908 23.
 SOCORRO 0070924 21.
 SOCORRO 0001820 21.
 SOCORRO 0001821 26.
 SOCORRO 0070916 20.
 SOCORRO 0070911 22.
 SOCORRO 0070932 31.
 SOCORRO 0070931 32.
 SOCORRO 0070933 32.
 SOCORRO 0070904 20.
 SOCORRO 0070909 20.
 SOCORRO 0001647 33.
 SOCORRO 0001646 42.7
 SOCORRO 0001648 32.
 SOCORRO 0001649 34.
 SOCORRO 0001819 21.
 VALENCIA 0001650 80.
 SOCORRO 0070923 39.
 SOCORRO 0070910 20.
 SOCORRO 0070913 22.
 SOCORRO 0070928 23.
 VALENCIA 0001823 23.
 SOCORRO 0070930 21.
 SOCORRO 0070917 20.
 SOCORRO 0070920 20.
 SOCORRO 0070921 20.
 SOCORRO 0070922 23.
 SOCORRO 0070919 21.
 VALENCIA 0001827 28.
 VALENCIA 0001825 27.
 VALENCIA 0001832 22.
 VALENCIA 0001826 24.
 VALENCIA 0001829 30.
 VALENCIA 0001831 26.
 SOCORRO 0070906 20.

34-09.08 N 107-05.25 W UNNAMED BADGER CATTLE CO. WELL (2)
 34-19.56 N 107-05.70 W UNNAMED SPRING
 34-48.90 N 107-23.28 W UNNAMED SPRING
 34-54.96 N 107-08.58 W UNNAMED SPRING
 34-47.46 N 107-05.46 W UNNAMED SPRING
 34-52.98 N 107-05.52 W UNNAMED SPRING

SOCORRO 0070918 23.
 SOCORRO 0001833 22.
 VALENCIA 0001828 20.
 VALENCIA 0001822 20.
 VALENCIA 0001830 27.
 VALENCIA 0001824 23.

SAINT-JOHN'S 1:250,000

34-50.30 N 108-50.02 W DENT WINDMILL
 34-28.37 N 108-42.44 W JERRY WELL
 34-32.40 N 108-46.63 W PUEBLO WINDMILL
 34-54.63 N 108-57.03 W RAINBOW SPRING
 34-54.50 N 108-57.53 W SACRED SPRING
 34-09.48 N 108-19.14 W UNNAMED

VALENCIA 0001668 23.4
 CATRON 0001671 24.
 CATRON 0001670 33.8
 MCKINLEY 0001677 21.
 VALENCIA 0001669 21.
 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.
 35-53. N 106-34. W BACA 11 - UNION OIL CO.
 35-53. N 106-34. W BACA 11 - UNION OIL CO.
 35-53. N 106-34. W BACA 11 - UNION OIL CO.
 35-46.5 N 106-41. W BUDDHIST SPRING
 35-46.5 N 106-41. W BUDDHIST SPRINGS
 35-47.5 N 106-41. W GROTTO SPRING
 35-35.5 N 106-45.2 W INDIAN SPRINGS
 35-46.5 N 106-41. W JEMEZ SPRINGS (MAIN ORIFICE)
 35-46.5 N 106-41. W JEMEZ SPRINGS (MAIN ORIFICE)
 35-47. N 106-41. W JEMEZ SPRINGS (OJOS CALIENTES)
 35-46.5 N 106-41. W JEMEZ WELL - 500 FT AQUIFER
 35-38.8 N 106-53.3 W KASEMAN NO. 2 (WARM SPRINGS)
 35-38.1 N 106-51.6 W KASEMAN NO.1
 35-53.0 N 106-40.4 W LASL GT-2-LOS ALAMOS SCIENTIFIC LAB
 35-50.90 N 106-37.80 W LITTLE SPENCE HOT SPRING
 35-49.20 N 106-37.61 W MCCAULEY SPRING
 35-49.20 N 106-37.61 W MCCAULEY SPRING
 35-36.13 N 106-51.55 W PHILLIP'S SPRINGS
 35-56.28 N 106-38.72 W SAN ANTONIO HOT SPRINGS
 35-56.33 N 106-38.60 W SAN ANTONIO HOT SPRINGS
 35-58.28 N 106-33.62 W SAN ANTONIO WARM SPRING
 35-31.7 N 106-50.8 W SAN YSIDRO - UNNAMED MINERAL SPRING
 35-32.88 N 106-49.62 W SAN YSIDRO - UNNAMED SPRING
 35-32.6 N 106-49.8 W SAN YSIDRO - UNNAMED WARM SPRING
 35-47.6 N 106-41.1 W SODA DAM SPRING
 35-47.5 N 106-41. W SODA DAM SPRING
 35-47.49 N 106-41.18 W SODA DAM SPRINGS
 35-50.33 N 106-37.40 W SPENCE HOT SPRING
 35-46.32 N 106-41.40 W SPRING AT JEMEZ SPRINGS
 35-54.42 N 106-36.92 W SULPHUR SPRINGS - LEMONADE SPRING
 35-46.5 N 106-41. W TRAVERTINE MOUND SPRING

SANDOVAL 0016503
 SANDOVAL 0016502
 SANDOVAL 0016501
 SANDOVAL 0016500
 SANDOVAL 0001748 49.
 SANDOVAL 0001753 50.
 SANDOVAL 0001745 38.
 SANDOVAL 0001655 51.
 SANDOVAL 0001750 55.
 SANDOVAL 0001755 35.5
 SANDOVAL 0000671 66.0
 SANDOVAL 0001752 60.5
 SANDOVAL 0001653 53.
 SANDOVAL 0001654 46.
 SANDOVAL 0016635 197.
 SANDOVAL 0001742 34.
 SANDOVAL 0001657 32.
 SANDOVAL 0001743 31.
 SANDOVAL 0001652 21.
 SANDOVAL 0001658 40.
 SANDOVAL 0001744 42.
 SANDOVAL 0001659 37.
 SANDOVAL 0002958 11.0
 SANDOVAL 0015254 24.0
 SANDOVAL 0002960 15.0
 SANDOVAL 0001746 47.
 SANDOVAL 0001749 48.
 SANDOVAL 0001656 47.8
 SANDOVAL 0001741 45.
 SANDOVAL 0015253 75.0
 SANDOVAL 0015250 65.0
 SANDOVAL 0001747 70.

35-46.5 N 106-41. W TRAVERTINE 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 106-53.28 W WARM SPRINGS	SANDOVAL	0015255	54.0
35-03.60 N 107-07.98 W ALAMOS 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.

RATON 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

BERRY G. W., GRIM, P. J., AND IKELMAN, J. A., 1980, THERMAL SPRINGS LIST FOR THE UNITED STATES: NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, KEY TO GEOPHYSICAL RECORDS DOCUMENTATION NO. 12, 59 P.

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CODE = COSNER AND APPS, 1978

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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.

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MARINER, R. H., PRESSER, T. S., AND EVANS, W. C., 1977A, CHEMICAL,
ISOTOPIC, AND GAS COMPOSITIONS OF SELECTED THERMAL SPRINGS IN
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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. E., 1962, DATA ON URANIUM AND RADIUM IN
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OGICAL SURVEY PROFESSIONAL PAPER 426, 115 P.

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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.