

GL04298  
FILE\_CAB19DRAWER\_

GEOHERM:  
TEXAS

RECORD 00460

RECORD IDENTIFICATION

RECORD NO..... 0015348  
 CROSS INDEX NO..  
 RECORD TYPE..... B

REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... SURFACE  
 NAME OF SAMPLE SOURCE.. INDIAN HOT SPRINGS (STUMP)  
 COUNTRY CODE..... US COUNTRY NAME..... UNITED STATES  
 STATE/PROVINCE..... TEXAS  
 LATITUDE..... 30-49.36N LONGITUDE..... 105-18.87W

SAMPLE INFORMATION

WATER SAMPLING TEMP.... 47.2 C  
 OTHER SAMPLE INFORMATION: TEXAS DWR WELL NO. 50-14-501; SATURATION INDEX=0.05;

WATER ANALYSIS

PH 1)..... 6.6  
 TOTAL DISSOLVED SOLIDS... 6766. MG/L

ISOTOPIC DATA

DEL O(18) OF WATER..... -59. 0/00  
 DEL D OF WATER..... -7.9 0/00

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

| LI  | NA    | K    | RB   | CS    | NA+K |      |    |   |  |
|-----|-------|------|------|-------|------|------|----|---|--|
| 2.2 | 2185. | 134. |      |       |      |      |    |   |  |
| MG  | CA    | SR   | BA   | CA+MG |      |      |    |   |  |
| 27. | 150.  | 3.8  |      |       |      |      |    |   |  |
| ZN  | HG    | B    | HB02 | AL    | PB   | AS   | SB | U |  |
|     |       | 4.7  |      |       |      |      |    |   |  |
| F   | CL    | BR   | I    |       |      |      |    |   |  |
| 2.8 | 2680  |      |      |       |      |      |    |   |  |
| NH4 | N03   | P04  | SI02 | S04   | C03  | HC03 |    |   |  |
|     | 0.1   |      | 40.  | 1090. |      | 906. |    |   |  |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT, TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00461

RECORD IDENTIFICATION

RECORD NO..... 0015349  
 CROSS INDEX NO..  
 RECORD TYPE..... B

REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... SURFACE  
 NAME OF SAMPLE SOURCE.. INDIAN HOT SPRINGS (CHIEF)

COUNTRY CODE..... US  
 STATE/PROVINCE..... TEXAS  
 LATITUDE..... 30-49.45N

COUNTRY NAME..... UNITED STATES  
 LONGITUDE..... 105-18.94W

SAMPLE INFORMATION

WATER SAMPLING TEMP.... 44.4 C  
 OTHER SAMPLE INFORMATION: TEXAS DWR WELL NO. 50-14-504; SATURATION INDEX=0.31

WATER ANALYSIS W

PH 1)..... 7.  
 TOTAL DISSOLVED SOLIDS... 7280. MG/L

ISOTOPIC DATA

DEL O(18) OF WATER..... -7.7 0/00  
 DEL D OF WATER..... -58. 0/00

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

|     |       |      |      |       |      |      |    |   |  |
|-----|-------|------|------|-------|------|------|----|---|--|
| LI  | NA    | K    | RB   | CS    | NA+K |      |    |   |  |
| 2.5 | 2340. | 158. |      |       |      |      |    |   |  |
| MG  | CA    | SR   | BA   | CA+MG |      |      |    |   |  |
| 34. | 145.  | 3.4  |      |       |      |      |    |   |  |
| ZN  | HG    | B    | HB02 | AL    | PB   | AS   | SB | U |  |
|     |       | 5.   |      |       |      |      |    |   |  |
| F   | CL    | BR   | I    |       |      |      |    |   |  |
| 2.7 | 2950  |      |      |       |      |      |    |   |  |
| NH4 | NO3   | PO4  | SI02 | S04   | C03  | HC03 |    |   |  |
|     | 5.4   |      | 40.  | 11.   |      | 902. |    |   |  |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT, TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00462

RECORD IDENTIFICATION

RECORD NO.... 0015350  
 CROSS INDEX NO..  
 RECORD TYPE..... B

REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... SURFACE  
 NAME OF SAMPLE SOURCE.. INDIAN HOT SPRINGS (SQUAW)  
 COUNTRY CODE..... US  
 STATE/PROVINCE..... TEXAS  
 LATITUDE..... 30-49.43N

COUNTRY NAME..... UNITED STATES  
 LONGITUDE..... 105-18.89W

SAMPLE INFORMATION

WATER SAMPLING TEMP.... 33.6 C  
 OTHER SAMPLE INFORMATION: TEXAS DWR WELL NO. 50-14-503;

WATER ANALYSIS W

PH 1)..... 6.9  
 TOTAL DISSOLVED SOLIDS... 7434. MG/L

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

|     |       |      |      |       |      |      |    |   |
|-----|-------|------|------|-------|------|------|----|---|
| LI  | NA    | K    | RB   | CS    | NA+K |      |    |   |
| 2.5 | 2375. | 160. |      |       |      |      |    |   |
| MG  | CA    | SR   | BA   | CA+MG |      |      |    |   |
| 29. | 160.  |      |      |       |      |      |    |   |
| ZN  | HG    | B    | HB02 | AL    | PB   | AS   | SB | U |
|     |       | 5.2  |      |       |      |      |    |   |
| F   | CL    | BR   | I    |       |      |      |    |   |
| 2.8 | 3000. |      |      |       |      |      |    |   |
| NH4 | N03   | P04  | SI02 | S04   | C03  | HC03 |    |   |
|     | 1.    |      | 35.  | 1190. |      | 962. |    |   |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT, TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00463

RECORD IDENTIFICATION

RECORD NO..... 0015351  
 CROSS INDEX NO..  
 RECORD TYPE..... B

REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... SURFACE  
 NAME OF SAMPLE SOURCE.. INDIAN HOT SPRINGS (BEAUTY)  
 COUNTRY CODE..... US COUNTRY NAME..... UNITED STATES  
 STATE/PROVINCE..... TEXAS  
 LATITUDE..... 30-49.48N LONGITUDE..... 105-18.89W

SAMPLE INFORMATION

WATER SAMPLING TEMP.... 39.7 C  
 OTHER SAMPLE INFORMATION: TEXAS DWR WELL NO. 50-14-505; SATURATION INDEX=0.20;

WATER ANALYSIS

PH 1)..... 6.8  
 TOTAL DISSOLVED SOLIDS... 8231. MG/L

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

|     |       |      |      |       |      |    |    |   |
|-----|-------|------|------|-------|------|----|----|---|
| LI  | NA    | K    | RB   | CS    | NA+K |    |    |   |
| 2.8 | 2610. | 200. |      |       |      |    |    |   |
| MG  | CA    | SR   | BA   | CA+MG |      |    |    |   |
| 36. | 175.  | 3.5  |      |       |      |    |    |   |
| ZN  | HG    | B    | HB02 | AL    | PB   | AS | SB | U |
|     |       | 5.7  |      |       |      |    |    |   |
| F   | CL    | BR   | I    |       |      |    |    |   |
| 3.1 | 3380. |      |      |       |      |    |    |   |

NH4            N03            P04            SI02            S04            C03            HC03  
                  0.9                            35.            1270.                            1034.

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT,  
 TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00464

RECORD IDENTIFICATION

RECORD NO..... 0015352  
 CROSS INDEX NO..  
 RECORD TYPE..... B

REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... SURFACE  
 NAME OF SAMPLE SOURCE.. INDIAN HOT SPRINGS (SODA)  
 COUNTRY CODE..... US  
 STATE/PROVINCE..... TEXAS

COUNTRY NAME..... UNITED STATES

SAMPLE INFORMATION

WATER SAMPLING TEMP.... 27.2            C  
 OTHER SAMPLE INFORMATION: SATURATION INDEX=0.34;

WATER ANALYSIS

PH 1)..... 7.5  
 TOTAL DISSOLVED SOLIDS... 2223.            MG/L

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

|      |      |      |      |       |      |    |    |   |  |
|------|------|------|------|-------|------|----|----|---|--|
| LI   | NA   | K    | RB   | CS    | NA+K |    |    |   |  |
| 0.6  | 725  | 40.9 |      |       |      |    |    |   |  |
| MG   | CA   | SR   | BA   | CA+MG |      |    |    |   |  |
| 14.4 | 62.  | 1.9  |      |       |      |    |    |   |  |
| ZN   | HG   | B    | HB02 | AL    | PB   | AS | SB | U |  |
|      |      | 2.   |      |       |      |    |    |   |  |
| F    | CL   | BR   | I    |       |      |    |    |   |  |
| 3.6  | 605. |      |      |       |      |    |    |   |  |

NH4            N03            P04            SI02            S04            C03            HC03  
                  0.4                            20.            440.                            623.

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT,  
 TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00465

RECORD IDENTIFICATION

RECORD NO..... 0015353  
 CROSS INDEX NO..  
 RECORD TYPE..... B

REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... SURFACE  
 NAME OF SAMPLE SOURCE.. RED BULL SPRING

COUNTRY CODE..... US  
 STATE/PROVINCE..... TEXAS  
 LATITUDE..... 30-51.67N

COUNTRY NAME..... UNITED STATES  
 LONGITUDE..... 105-20.37W

SAMPLE INFORMATION

WATER SAMPLING TEMP..... 37. C  
 OTHER SAMPLE INFORMATION: SATURATION INDEX=0.28;

WATER ANALYSIS W

PH 1)..... 8.  
 TOTAL DISSOLVED SOLIDS... 960. MG/L

ISOTOPIC DATA

DEL O(18) OF WATER..... -9.1 0/00  
 DEL D OF WATER..... -63. 0/00

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

|     |      |     |    |       |      |
|-----|------|-----|----|-------|------|
| LI  | NA   | K   | RB | CS    | NA+K |
| 0.2 | 312. | 11. |    |       |      |
| MG  | CA   | SR  | BA | CA+MG |      |
| 1.7 | 15.5 | 0.7 |    |       |      |
| F   | CL   | BR  | I  |       |      |
| 3.2 | 87.2 |     |    |       |      |

|     |      |     |      |      |     |      |
|-----|------|-----|------|------|-----|------|
| NH4 | NO3  | PO4 | SI02 | S04  | C03 | HC03 |
|     | 0.1L |     | 36.  | 259. |     | 474. |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT, TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00466

RECORD IDENTIFICATION

RECORD NO..... 0015354  
 CROSS INDEX NO..  
 RECORD TYPE..... B

REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... SURFACE  
 NAME OF SAMPLE SOURCE.. BIG BEND NATIONAL PARK (SPRING AT RIO GRANDE VILLAGE)  
 COUNTRY CODE..... US COUNTRY NAME..... UNITED STATES  
 STATE/PROVINCE..... TEXAS  
 LATITUDE..... 29-10.75N LONGITUDE..... 102-57.17W

SAMPLE INFORMATION

WATER SAMPLING TEMP..... 35.6 C  
 OTHER SAMPLE INFORMATION: SATURATION INDEX=0.30;

WATER ANALYSIS W

PH 1)..... 7.3  
 TOTAL DISSOLVED SOLIDS... 842. MG/L

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

|      |      |     |      |       |      |      |      |
|------|------|-----|------|-------|------|------|------|
| LI   | NA   | K   | RB   | CS    | NA+K |      |      |
| 0.2  | 98.  | 5.4 |      |       |      |      |      |
| MG   | CA   | SR  | BA   | CA+MG |      |      |      |
| 36.4 | 125. | 4.2 |      |       |      |      |      |
| ZN   | HG   | B   | HB02 | AL    | PB   | AS   | SB U |
|      |      | 0.2 |      |       |      |      |      |
| F    | CL   | BR  | I    |       |      |      |      |
| 2.2  | 64.3 |     |      |       |      |      |      |
| NH4  | N03  | P04 | SI02 | S04   | C03  | HC03 |      |
|      | 1.   |     | 21.  | 346.  |      | 280. |      |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT, TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00467

RECORD IDENTIFICATION

RECORD NO..... 0015355  
 CROSS INDEX NO..  
 RECORD TYPE..... B

REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... SURFACE  
 NAME OF SAMPLE SOURCE.. BIG BEND NATIONAL PARK (HOT SPRINGS)  
 COUNTRY CODE..... US COUNTRY NAME..... UNITED STATES  
 STATE/PROVINCE..... TEXAS  
 LATITUDE..... 29-10.75N LONGITUDE..... 102-59.74W

SAMPLE INFORMATION

WATER SAMPLING TEMP.... 40.6 C  
 OTHER SAMPLE INFORMATION: SATURATION INDEX=0.29;

WATER ANALYSIS

PH 1)..... 7.2  
 TOTAL DISSOLVED SOLIDS... 884. MG/L

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

|      |      |     |      |       |      |      |      |
|------|------|-----|------|-------|------|------|------|
| LI   | NA   | K   | RB   | CS    | NA+K |      |      |
| 0.2  | 108. | 5.8 |      |       |      |      |      |
| MG   | CA   | SR  | BA   | CA+MG |      |      |      |
| 36.4 | 133. |     |      |       |      |      |      |
| ZN   | HG   | B   | HB02 | AL    | PB   | AS   | SB U |
|      |      | 0.3 |      |       |      |      |      |
| F    | CL   | BR  | I    |       |      |      |      |
| 2.3  | 70.2 |     |      |       |      |      |      |
| NH4  | N03  | P04 | SI02 | S04   | C03  | HC03 |      |
|      | 0.5  |     | 22.  | 371.  |      | 273. |      |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT,  
 TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00468

RECORD IDENTIFICATION

RECORD NO.... 0015356  
 CROSS INDEX NO..  
 RECORD TYPE..... B

REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... WELL  
 NAME OF SAMPLE SOURCE.. BIG BEND NATIONAL PARK (BIG BEND # 2)  
 COUNTRY CODE..... US COUNTRY NAME..... UNITED STATES  
 STATE/PROVINCE..... TEXAS  
 LATITUDE..... 29-10.94N LONGITUDE..... 102-59.51W

SAMPLE INFORMATION

WATER SAMPLING TEMP.... 40. C  
 OTHER SAMPLE INFORMATION: SATURATION INDEX=0.15;

WATER ANALYSIS

PH 1)..... 7.1  
 TOTAL DISSOLVED SOLIDS... 879. MG/L

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

| LI   | NA   | K   | RB   | CS    | NA+K |      |    |   |  |
|------|------|-----|------|-------|------|------|----|---|--|
| 0.2  | 107. | 5.8 |      |       |      |      |    |   |  |
| MG   | CA   | SR  | BA   | CA+MG |      |      |    |   |  |
| 36.4 | 133. | 4.4 |      |       |      |      |    |   |  |
| ZN   | HG   | B   | HB02 | AL    | PB   | AS   | SB | U |  |
|      |      | 0.3 |      |       |      |      |    |   |  |
| F    | CL   | BR  | I    |       |      |      |    |   |  |
| 2.3  | 69.7 |     |      |       |      |      |    |   |  |
| NH4  | NO3  | P04 | SI02 | S04   | C03  | HC03 |    |   |  |
|      | 0.7  |     | 22.  | 366.  |      | 266. |    |   |  |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT,  
 TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00469

RECORD IDENTIFICATION

RECORD NO.... 0015357  
 CROSS INDEX NO..  
 RECORD TYPE..... B

REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... SURFACE  
 NAME OF SAMPLE SOURCE.. SAN CARLOS SPRINGS  
 COUNTRY CODE..... US COUNTRY NAME..... UNITED STATES  
 STATE/PROVINCE..... TEXAS



SAMPLE INFORMATION

WATER SAMPLING TEMP.... 31.7 C  
 OTHER SAMPLE INFORMATION: SATURATION INDEX=0.22;

WATER ANALYSIS W

PH 1)..... 7.4  
 TOTAL DISSOLVED SOLIDS... 723. MG/L

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

|     |      |     |      |       |      |      |    |   |
|-----|------|-----|------|-------|------|------|----|---|
| LI  | NA   | K   | RB   | CS    | NA+K |      |    |   |
| 0.2 | 108. | 4.4 |      |       |      |      |    |   |
| MG  | CA   | SR  | BA   | CA+MG |      |      |    |   |
| 9.6 | 134. | 2.1 |      |       |      |      |    |   |
| ZN  | HG   | B   | HB02 | AL    | PB   | AS   | SB | U |
|     |      | 0.4 |      |       |      |      |    |   |
| F   | CL   | BR  | I    |       |      |      |    |   |
| 3.2 | 29.4 |     |      |       |      |      |    |   |
| NH4 | N03  | P04 | SI02 | S04   | C03  | HC03 |    |   |
|     | 3.1  |     | 37.  | 392.  |      | 207. |    |   |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT, TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00470

RECORD IDENTIFICATION

RECORD NO.... 0015358  
 CROSS INDEX NO..  
 RECORD TYPE..... B

REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... SURFACE  
 NAME OF SAMPLE SOURCE.. PEGUIS (PEGUIS)  
 COUNTRY CODE..... US  
 STATE/PROVINCE..... TEXAS

COUNTRY NAME..... UNITED STATES

SAMPLE INFORMATION

WATER SAMPLING TEMP.... 35.6 C  
 OTHER SAMPLE INFORMATION: SATURATION INDEX=0.17;

WATER ANALYSIS W

PH 1)..... 7.5  
 TOTAL DISSOLVED SOLIDS... 614. MG/L

ISOTOPIC DATA

DEL D OF WATER..... -120 0/00

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

|     |      |     |    |    |      |
|-----|------|-----|----|----|------|
| LI  | NA   | K   | RB | CS | NA+K |
| 0.1 | 126. | 4.2 |    |    |      |

|      |      |     |      |       |     |      |    |   |
|------|------|-----|------|-------|-----|------|----|---|
| MG   | CA   | SR  | BA   | CA+MG |     |      |    |   |
| 16.8 | 62.5 | 1.8 |      |       |     |      |    |   |
| ZN   | HG   | B   | HB02 | AL    | PB  | AS   | SB | U |
|      |      | 0.4 |      |       |     |      |    |   |
| F    | CL   | BR  | I    |       |     |      |    |   |
| 1.5  | 127. |     |      |       |     |      |    |   |
| NH4  | NO3  | PO4 | SI02 | S04   | C03 | HC03 |    |   |
|      | 4.4  |     | 22.  | 128.  |     | 243. |    |   |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT, TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00471

RECORD IDENTIFICATION

RECORD NO.... 0015359  
 CROSS INDEX NO..  
 RECORD TYPE..... B

REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... SURFACE  
 NAME OF SAMPLE SOURCE.. PEGUIS (PEGUIS #2)  
 COUNTRY CODE..... US  
 STATE/PROVINCE..... TEXAS

COUNTRY NAME..... UNITED STATES

SAMPLE INFORMATION

WATER SAMPLING TEMP.... 36.1 C  
 OTHER SAMPLE INFORMATION: SATURATION INDEX 0.25;

WATER ANALYSIS

PH 1)..... 7.5  
 TOTAL DISSOLVED SOLIDS... 620. MG/L

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

|      |      |     |      |       |      |      |    |   |
|------|------|-----|------|-------|------|------|----|---|
| LI   | NA   | K   | RB   | CS    | NA+K |      |    |   |
| 0.1  | 123. | -4. |      |       |      |      |    |   |
| MG   | CA   | SR  | BA   | CA+MG |      |      |    |   |
| 17.5 | 67.  | 1.8 |      |       |      |      |    |   |
| ZN   | HG   | B   | HB02 | AL    | PB   | AS   | SB | U |
|      |      | 0.2 |      |       |      |      |    |   |
| F    | CL   | BR  | I    |       |      |      |    |   |
| 2.2  | 126. |     |      |       |      |      |    |   |
| NH4  | NO3  | PO4 | SI02 | S04   | C03  | HC03 |    |   |
|      | 5.5  |     | 21.  | 131.  |      | 244. |    |   |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT, TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00472

## RECORD IDENTIFICATION

RECORD NO..... 0015360  
 CROSS INDEX NO..  
 RECORD TYPE..... B

## REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

## GEOGRAPHIC LOCALITY

SAMPLE TYPE..... SURFACE  
 NAME OF SAMPLE SOURCE.. LAS CIENAGAS  
 COUNTRY CODE..... US  
 STATE/PROVINCE..... TEXAS  
 LATITUDE..... 29-47.18N

COUNTRY NAME..... UNITED STATES  
 LONGITUDE..... 104-27.66W

## SAMPLE INFORMATION

WATER SAMPLING TEMP.... 30.2 C

## WATER ANALYSIS

PH 1)..... 7.7  
 TOTAL DISSOLVED SOLIDS... 723 MG/L

## ISOTOPIC DATA

DEL O(18) OF WATER..... -7.1 0/00  
 DEL D OF WATER..... -47 0/00

## SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

|     |      |     |      |       |      |      |    |   |
|-----|------|-----|------|-------|------|------|----|---|
| LI  | NA   | K   | RB   | CS    | NA+K |      |    |   |
| 0.2 | 228. | 6.  |      |       |      |      |    |   |
| MG  | CA   | SR  | BA   | CA+MG |      |      |    |   |
| 2.4 | 27.  | 0.5 |      |       |      |      |    |   |
| ZN  | HG   | B   | HB02 | AL    | PB   | AS   | SB | U |
|     |      | 0.4 |      |       |      |      |    |   |
| F   | CL   | BR  | I    |       |      |      |    |   |
| 7.2 | 87.8 |     |      |       |      |      |    |   |
| NH4 | N03  | P04 | SI02 | S04   | C03  | HC03 |    |   |
|     | 0.9  |     | 39.  | 119.  |      | 415. |    |   |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT,  
 TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00473

## RECORD IDENTIFICATION

RECORD NO..... 0015361  
 CROSS INDEX NO..  
 RECORD TYPE..... B

## REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

## GEOGRAPHIC LOCALITY

SAMPLE TYPE..... SURFACE  
 NAME OF SAMPLE SOURCE.. HOT SPRINGS - RUIDOSA  
 COUNTRY CODE..... US

COUNTRY NAME..... UNITED STATES

STATE/PROVINCE..... TEXAS  
 LATITUDE..... 30-02.30N

LONGITUDE..... 104-35.91W

SAMPLE INFORMATION

WATER SAMPLING TEMP.... 45. C  
 OTHER SAMPLE INFORMATION: SATURATION INDEX=0.07; TEXAS DWR WELL NO. 51-60-701;

WATER ANALYSIS

PH 1)..... 7.5  
 TOTAL DISSOLVED SOLIDS... 549. MG/L

ISOTOPIC DATA

DEL O(18) OF WATER..... -8.1 0/00  
 DEL D OF WATER..... -57 0/00

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

|     |      |      |      |       |      |      |    |   |
|-----|------|------|------|-------|------|------|----|---|
| LI  | NA   | K    | RB   | CS    | NA+K |      |    |   |
| 0.2 | 148. | 14.5 |      |       |      |      |    |   |
| MG  | CA   | SR   | BA   | CA+MG |      |      |    |   |
| 4.6 | 27.5 | 0.6  |      |       |      |      |    |   |
| ZN  | HG   | B    | HB02 | AL    | PB   | AS   | SB | U |
|     |      | 0.6  |      |       |      |      |    |   |
| F   | CL   | BR   | I    |       |      |      |    |   |
| 3.8 | 72.2 |      |      |       |      |      |    |   |
| NH4 | N03  | P04  | SI02 | S04   | C03  | HC03 |    |   |
|     | 0.1L |      | 35.  | 100.  |      | 290. |    |   |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT, TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00474

RECORD IDENTIFICATION

RECORD NO.... 0015362  
 CROSS INDEX NO..  
 RECORD TYPE..... B

REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... WELL  
 NAME OF SAMPLE SOURCE.. BRISCOE WELL  
 COUNTRY CODE..... US COUNTRY NAME..... UNITED STATES  
 STATE/PROVINCE..... TEXAS  
 LATITUDE..... 30-03.74N LONGITUDE..... 104-35.37W

SAMPLE INFORMATION

WATER SAMPLING TEMP.... 41.1 C  
 OTHER SAMPLE INFORMATION: TEXAS DWR WELL NO. 51-60-402; SATURATION INDEX=0.33;

WATER ANALYSIS

PH 1)..... 7.5  
 TOTAL DISSOLVED SOLIDS... 805. MG/L

ISOTOPIC DATA

DEL O(18) OF WATER..... -7.7 0/00  
 DEL D OF WATER..... -51 0/00

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

|     |      |      |      |       |      |      |    |   |
|-----|------|------|------|-------|------|------|----|---|
| LI  | NA   | K    | RB   | CS    | NA+K |      |    |   |
| 0.2 | 186. | 17.7 |      |       |      |      |    |   |
| MG  | CA   | SR   | BA   | CA+MG |      |      |    |   |
| 8.4 | 65.8 | 1.3  |      |       |      |      |    |   |
| ZN  | HG   | B    | HB02 | AL    | PB   | AS   | SB | U |
|     |      | 0.8  |      |       |      |      |    |   |
| F   | CL   | BR   | I    |       |      |      |    |   |
|     | 140. |      |      |       |      |      |    |   |
| NH4 | NO3  | P04  | SI02 | S04   | C03  | HC03 |    |   |
|     | 10.6 |      | 39.  | 192.  |      | 251. |    |   |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT, TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00475

RECORD IDENTIFICATION

RECORD NO..... 0015363  
 CROSS INDEX NO..  
 RECORD TYPE..... B

REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... SURFACE  
 NAME OF SAMPLE SOURCE.. NIXON SPRINGS  
 COUNTRY CODE..... US COUNTRY NAME..... UNITED STATES  
 STATE/PROVINCE..... TEXAS  
 LATITUDE..... 30-08.00N LONGITUDE..... 104-36.13W

SAMPLE INFORMATION

WATER SAMPLING TEMP.... 31.7 C  
 OTHER SAMPLE INFORMATION: TEXAS DWR WELL NO. 51-52-702; SATURATION INDEX=0.42;

WATER ANALYSIS

PH 1)..... 7.4  
 TOTAL DISSOLVED SOLIDS... 507. MG/L

ISOTOPIC DATA

DEL O(18) OF WATER..... -7.5 0/00  
 DEL D OF WATER..... -52 0/00

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

|     |      |     |    |       |      |
|-----|------|-----|----|-------|------|
| LI  | NA   | K   | RB | CS    | NA+K |
| 0.1 | 160. | 5.5 |    |       |      |
| MG  | CA   | SR  | BA | CA+MG |      |

|     |      |     |      |      |     |      |    |   |
|-----|------|-----|------|------|-----|------|----|---|
| 2.3 | 20.5 | 0.2 |      |      |     |      |    |   |
| ZN  | HG   | B   | HB02 | AL   | PB  | AS   | SB | U |
|     |      | 0.3 |      |      |     |      |    |   |
| F   | CL   | BR  | I    |      |     |      |    |   |
| 3.4 | 63.  |     |      |      |     |      |    |   |
| NH4 | N03  | P04 | SI02 | S04  | C03 | HC03 |    |   |
|     | 2.7  |     | 43.  | 97.5 |     | 220. |    |   |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT, TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00476

RECORD IDENTIFICATION

RECORD NO..... 0015364  
 CROSS INDEX NO..  
 RECORD TYPE..... B

REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... SURFACE  
 NAME OF SAMPLE SOURCE.. CAPOTE WARM SPRING  
 COUNTRY CODE..... US  
 STATE/PROVINCE..... TEXAS  
 LATITUDE..... 30-12.55N  
 COUNTRY NAME..... UNITED STATES  
 LONGITUDE..... 104-33.72W

SAMPLE INFORMATION

WATER SAMPLING TEMP.... 36.7 C  
 OTHER SAMPLE INFORMATION: TEXAS DWR WELL NO. 51-52-501; SATURATION INDEX=0.05;

WATER ANALYSIS

PH 1)..... 9.  
 TOTAL DISSOLVED SOLIDS... 329. MG/L

ISOTOPIC DATA

DEL O(18) OF WATER..... -8.0 0/00  
 DEL D OF WATER..... -54 0/00

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

|      |      |      |      |       |      |      |    |   |
|------|------|------|------|-------|------|------|----|---|
| LI   | NA   | K    | RB   | CS    | NA+K |      |    |   |
| 0.1L | 120. | 0.6  |      |       |      |      |    |   |
| MG   | CA   | SR   | BA   | CA+MG |      |      |    |   |
| 0.09 | 1.6  | 0.1L |      |       |      |      |    |   |
| ZN   | HG   | B    | HB02 | AL    | PB   | AS   | SB | U |
|      |      | 0.4  |      |       |      |      |    |   |
| F    | CL   | BR   | I    |       |      |      |    |   |
| 2.5  | 12.8 |      |      |       |      |      |    |   |
| NH4  | N03  | P04  | SI02 | S04   | C03  | HC03 |    |   |
|      | 5.3  |      | 37.  | 31.8  |      | 226  |    |   |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT,

TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00477

RECORD IDENTIFICATION

RECORD NO..... 0015365  
 CROSS INDEX NO..  
 RECORD TYPE..... B

REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... WELL  
 NAME OF SAMPLE SOURCE.. GULF-PRESIDIO  
 COUNTRY CODE..... US COUNTRY NAME..... UNITED STATES  
 STATE/PROVINCE..... TEXAS  
 LATITUDE..... 30-20.18N LONGITUDE..... 104-41.47W

SAMPLE INFORMATION

DEPTH..... 1893. M  
 WATER SAMPLING TEMP.... 72. C  
 WATER FLOW RATE..... 2200. GPM  
 OTHER SAMPLE INFORMATION: TEXAS DWR WELL NO. 51-43-201; SATURATION INDEX=0.19;

WATER ANALYSIS

PH 1)..... 7.2  
 TOTAL DISSOLVED SOLIDS... 1253. MG/L

ISOTOPIC DATA

DEL O(18) OF WATER..... -8.0 0/00  
 DEL D OF WATER..... -57 0/00

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

|      |      |      |      |       |      |      |    |   |
|------|------|------|------|-------|------|------|----|---|
| LI   | NA   | K    | RB   | CS    | NA+K |      |    |   |
| 0.5  | 363. | 42.9 |      |       |      |      |    |   |
| MG   | CA   | SR   | BA   | CA+MG |      |      |    |   |
| 2.   | 37.  | 0.7  |      |       |      |      |    |   |
| ZN   | HG   | B    | HBO2 | AL    | PB   | AS   | SB | U |
|      |      | 1.   |      |       |      |      |    |   |
| F    | CL   | BR   | I    |       |      |      |    |   |
| 10.6 | 239. |      |      |       |      |      |    |   |
| NH4  | NO3  | P04  | SI02 | S04   | C03  | HC03 |    |   |
|      | 0.2  |      | 76.  | 230.  |      | 497. |    |   |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT, TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00478

RECORD IDENTIFICATION

RECORD NO..... 0015366  
 CROSS INDEX NO..  
 RECORD TYPE..... B

REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... WELL  
 NAME OF SAMPLE SOURCE.. GULF-SWAFFORD  
 COUNTRY CODE..... US COUNTRY NAME..... UNITED STATES  
 STATE/PROVINCE..... TEXAS  
 LATITUDE..... 30-22.04N LONGITUDE..... 104-43.46W

SAMPLE INFORMATION

DEPTH..... 2688. M  
 WATER SAMPLING TEMP.... 69. C  
 WATER FLOW RATE..... 1500. GPM  
 OTHER SAMPLE INFORMATION: TEXAS DWR WELL NO. 51-43-101; SATURATION INDEX=0.18;

WATER ANALYSIS

PH 1)..... 7.1  
 TOTAL DISSOLVED SOLIDS... 1690. MG/L

ISOTOPIC DATA

DEL O(18) OF WATER..... -7.6 0/00  
 DEL D OF WATER..... -56 0/00

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

|      |      |     |      |       |      |      |    |   |  |
|------|------|-----|------|-------|------|------|----|---|--|
| LI   | NA   | K   | RB   | CS    | NA+K |      |    |   |  |
| 0.6  | 500. | 60. |      |       |      |      |    |   |  |
| MG   | CA   | SR  | BA   | CA+MG |      |      |    |   |  |
| 1.2  | 46.4 | 0.7 |      |       |      |      |    |   |  |
| ZN   | HG   | B   | HB02 | AL    | PB   | AS   | SB | U |  |
|      |      | 1.2 |      |       |      |      |    |   |  |
| F    | CL   | BR  | I    |       |      |      |    |   |  |
| 10.6 | 300. |     |      |       |      |      |    |   |  |
| NH4  | NO3  | PO4 | SI02 | S04   | C03  | HC03 |    |   |  |
|      | 0.1L |     | 144. | 355   |      | 563. |    |   |  |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT, TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00479

RECORD IDENTIFICATION

RECORD NO..... 0015368  
 CROSS INDEX NO..  
 RECORD TYPE..... B

REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... WELL  
 NAME OF SAMPLE SOURCE.. OJOS CALIENTES (NO. 4)  
 COUNTRY CODE..... US COUNTRY NAME..... UNITED STATES  
 STATE/PROVINCE..... TEXAS

SAMPLE INFORMATION

WATER SAMPLING TEMP.... 69. C



OTHER SAMPLE INFORMATION: SATURATION INDEX=0.46;

WATER ANALYSIS W  
 PH 1)..... 7.5  
 TOTAL DISSOLVED SOLIDS... 2323. MG/L

SOLUTE ANALYSIS (WATER) UNITS USED..... MG/L

|      |      |     |      |       |      |      |    |   |
|------|------|-----|------|-------|------|------|----|---|
| LI   | NA   | K   | RB   | CS    | NA+K |      |    |   |
| 1.   | 780. | 68. |      |       |      |      |    |   |
| MG   | CA   | SR  | BA   | CA+MG |      |      |    |   |
| 2.7  | 32.  | 1.5 |      |       |      |      |    |   |
| ZN   | HG   | B   | HB02 | AL    | PB   | AS   | SB | U |
|      |      | 1.9 |      |       |      |      |    |   |
| F    | CL   | BR  | I    |       |      |      |    |   |
| 12.4 | 469. |     |      |       |      |      |    |   |
| NH4  | N03  | P04 | SI02 | S04   | C03  | HC03 |    |   |
|      | 0.9  |     | 87.  | 481.  |      | 783. |    |   |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT, TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00480

RECORD IDENTIFICATION  
 RECORD NO..... 0015369  
 CROSS INDEX NO..  
 RECORD TYPE..... B

REPORTER  
 NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY  
 SAMPLE TYPE..... SURFACE  
 NAME OF SAMPLE SOURCE.. RANCHO CIPRES  
 COUNTRY CODE..... US COUNTRY NAME..... UNITED STATES  
 STATE/PROVINCE..... TEXAS

SAMPLE INFORMATION  
 WATER SAMPLING TEMP.... 35. C  
 OTHER SAMPLE INFORMATION: SATURATION INDEX=0.28;

WATER ANALYSIS W  
 PH 1)..... 6.7  
 TOTAL DISSOLVED SOLIDS... 3924. MG/L

ISOTOPIC DATA  
 DEL O(18) OF WATER..... -6.1 0/00  
 DEL D OF WATER..... -52 0/00

SOLUTE ANALYSIS (WATER) UNITS USED..... MG/L

|     |       |     |    |       |      |
|-----|-------|-----|----|-------|------|
| LI  | NA    | K   | RB | CS    | NA+K |
| 1.3 | 1140. | 58. |    |       |      |
| MG  | CA    | SR  | BA | CA+MG |      |

|     |       |     |      |      |     |       |    |   |  |
|-----|-------|-----|------|------|-----|-------|----|---|--|
| 20. | 221.  | 4.6 |      |      |     |       |    |   |  |
| ZN  | HG    | B   | HB02 | AL   | PB  | AS    | SB | U |  |
|     |       | 2.6 |      |      |     |       |    |   |  |
| F   | CL    | BR  | I    |      |     |       |    |   |  |
| 5.6 | 1010. |     |      |      |     |       |    |   |  |
| NH4 | NO3   | PO4 | SI02 | S04  | C03 | HC03  |    |   |  |
|     | 0.1   |     | 46.  | 898. |     | 1048. |    |   |  |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT, TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00481

RECORD IDENTIFICATION

RECORD NO..... 0015370  
 CROSS INDEX NO..  
 RECORD TYPE..... B

REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... WELL  
 NAME OF SAMPLE SOURCE.. HOT WELLS  
 COUNTRY CODE..... US  
 STATE/PROVINCE..... TEXAS  
 LATITUDE..... 31-00.50N

COUNTRY NAME..... UNITED STATES  
 LONGITUDE..... 105-01.07W

SAMPLE INFORMATION

WATER SAMPLING TEMP.... 40. C  
 OTHER SAMPLE INFORMATION: SATURATION INDEX=0.45;

WATER ANALYSIS

PH 1)..... 8.8

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

|      |      |     |      |       |      |      |    |   |  |
|------|------|-----|------|-------|------|------|----|---|--|
| LI   | NA   | K   | RB   | CS    | NA+K |      |    |   |  |
| 0.1L |      | 1.6 |      |       |      |      |    |   |  |
| MG   | CA   | SR  | BA   | CA+MG |      |      |    |   |  |
| 1.8  | 4.   | 0.3 |      |       |      |      |    |   |  |
| ZN   | HG   | B   | HB02 | AL    | PB   | AS   | SB | U |  |
|      |      | 0.4 |      |       |      |      |    |   |  |
| F    | CL   | BR  | I    |       |      |      |    |   |  |
| 2.4  | 2.0L |     |      |       |      |      |    |   |  |
| NH4  | NO3  | PO4 | SI02 | S04   | C03  | HC03 |    |   |  |
|      |      |     | 20.  | 16.   |      | 293. |    |   |  |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT, TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00482

RECORD IDENTIFICATION

REPORTER

RECORD NO..... 0015371  
 CROSS INDEX NO..  
 RECORD TYPE..... B

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... WELL  
 NAME OF SAMPLE SOURCE.. MIMBRE WELL  
 COUNTRY CODE..... US  
 STATE/PROVINCE..... TEXAS

COUNTRY NAME..... UNITED STATES

SAMPLE INFORMATION

WATER SAMPLING TEMP.... 24.4 C  
 OTHER SAMPLE INFORMATION: SATURATION INDEX=0.07;

WATER ANALYSIS

PH 1)..... 7.8  
 TOTAL DISSOLVED SOLIDS... 392. MG/L

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

|      |      |     |      |       |      |      |    |   |
|------|------|-----|------|-------|------|------|----|---|
| LI   | NA   | K   | RB   | CS    | NA+K |      |    |   |
| 0.1L | 95.  | 3.6 |      |       |      |      |    |   |
| MG   | CA   | SR  | BA   | CA+MG |      |      |    |   |
| 2.4  | 30.  | 0.1 |      |       |      |      |    |   |
| ZN   | HG   | B   | HB02 | AL    | PB   | AS   | SB | U |
|      |      | 0.3 |      |       |      |      |    |   |
| F    | CL   | BR  | I    |       |      |      |    |   |
| 3.8  | 19.6 |     |      |       |      |      |    |   |
| NH4  | N03  | P04 | SI02 | S04   | C03  | HC03 |    |   |
|      | 6.2  |     | 51.  | 58.4  |      | 247. |    |   |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT, TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00483

RECORD IDENTIFICATION

RECORD NO..... 0015372  
 CROSS INDEX NO..  
 RECORD TYPE..... B

REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... WELL  
 NAME OF SAMPLE SOURCE.. VIZCAINO WELL  
 COUNTRY CODE..... US  
 STATE/PROVINCE..... TEXAS

COUNTRY NAME..... UNITED STATES

SAMPLE INFORMATION

WATER SAMPLING TEMP.... 23.9 C  
 OTHER SAMPLE INFORMATION: SATURATION INDEX=0.41;

WATER ANALYSIS

PH 1)..... 7.6

TOTAL DISSOLVED SOLIDS... 753. MG/L

ISOTOPIC DATA

DEL O(18) OF WATER..... -7.2 0/00  
 DEL D OF WATER..... -44 0/00

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

|      |      |     |      |       |      |      |    |   |
|------|------|-----|------|-------|------|------|----|---|
| LI   | NA   | K   | RB   | CS    | NA+K |      |    |   |
| 0.1L | 202. | 10. |      |       |      |      |    |   |
| MG   | CA   | SR  | BA   | CA+MG |      |      |    |   |
| 3.6  | 57.5 | 0.1 |      |       |      |      |    |   |
| ZN   | HG   | B   | HB02 | AL    | PB   | AS   | SB | U |
|      |      | 0.6 |      |       |      |      |    |   |
| F    | CL   | BR  | I    |       |      |      |    |   |
| 4.1  | 57.2 |     |      |       |      |      |    |   |
| NH4  | NO3  | PO4 | SI02 | S04   | CO3  | HC03 |    |   |
|      | 3.4  |     | 60.  | 119.  |      | 477. |    |   |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT, TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00484

RECORD IDENTIFICATION

RECORD NO.... 0015373  
 CROSS INDEX NO..  
 RECORD TYPE..... B

REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... SURFACE  
 NAME OF SAMPLE SOURCE.. NAEGELE SPRINGS  
 COUNTRY CODE..... US  
 STATE/PROVINCE..... TEXAS

COUNTRY NAME..... UNITED STATES

SAMPLE INFORMATION

WATER SAMPLING TEMP.... 24. C  
 OTHER SAMPLE INFORMATION: SATURATION INDEX=0.28;

WATER ANALYSIS

PH 1)..... 7.6  
 TOTAL DISSOLVED SOLIDS... 781. MG/L

ISOTOPIC DATA

DEL O(18) OF WATER..... -7.7 0/00  
 DEL D OF WATER..... -52 0/00

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

|     |      |      |    |       |      |
|-----|------|------|----|-------|------|
| LI  | NA   | K    | RB | CS    | NA+K |
| 0.2 | 195. | 21.5 |    |       |      |
| MG  | CA   | SR   | BA | CA+MG |      |

|     |      |     |      |      |     |      |    |   |
|-----|------|-----|------|------|-----|------|----|---|
| 6.7 | 55.1 | 1.  |      |      |     |      |    |   |
| ZN  | HG   | B   | HB02 | AL   | PB  | AS   | SB | U |
|     |      | 0.4 |      |      |     |      |    |   |
| F   | CL   | BR  | I    |      |     |      |    |   |
| 5.9 | 98.9 |     |      |      |     |      |    |   |
| NH4 | N03  | P04 | SI02 | S04  | C03 | HC03 |    |   |
|     | 0.2  |     | 43.  | 161. |     | 390. |    |   |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT, TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00485

RECORD IDENTIFICATION

RECORD NO..... 0015375  
 CROSS INDEX NO..  
 RECORD TYPE..... B

REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... WELL  
 NAME OF SAMPLE SOURCE.. NUNEZ WELL  
 COUNTRY CODE..... US  
 STATE/PROVINCE..... TEXAS

COUNTRY NAME..... UNITED STATES

SAMPLE INFORMATION

WATER SAMPLING TEMP.... 22. C  
 OTHER SAMPLE INFORMATION: SATURATION INDEX=0.26;

WATER ANALYSIS

PH 1)..... 7.7  
 TOTAL DISSOLVED SOLIDS... 554. MG/L

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

|     |      |     |      |       |      |      |    |   |
|-----|------|-----|------|-------|------|------|----|---|
| LI  | NA   | K   | RB   | CS    | NA+K |      |    |   |
| 0.1 | 91.  | 3.3 |      |       |      |      |    |   |
| MG  | CA   | SR  | BA   | CA+MG |      |      |    |   |
| 21. | 63.3 |     |      |       |      |      |    |   |
| ZN  | HG   | B   | HB02 | AL    | PB   | AS   | SB | U |
|     |      | 0.5 |      |       |      |      |    |   |
| F   | CL   | BR  | I    |       |      |      |    |   |
| 2.4 | 65.1 |     |      |       |      |      |    |   |
| NH4 | N03  | P04 | SI02 | S04   | C03  | HC03 |    |   |
|     | 21.6 |     | 52.  | 99.   |      | 274. |    |   |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT, TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00486

RECORD IDENTIFICATION

REPORTER

RECORD NO..... 0015376  
 CROSS INDEX NO..  
 RECORD TYPE..... B

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... SURFACE  
 NAME OF SAMPLE SOURCE.. ALAMO SPRINGS  
 COUNTRY CODE..... US  
 STATE/PROVINCE..... TEXAS

COUNTRY NAME..... UNITED STATES

SAMPLE INFORMATION

WATER SAMPLING TEMP.... 25. C  
 OTHER SAMPLE INFORMATION: SATURATION INDEX=0.52;

WATER ANALYSIS

PH 1)..... 8.7  
 TOTAL DISSOLVED SOLIDS... 532. MG/L

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

|      |      |     |      |       |      |      |    |   |
|------|------|-----|------|-------|------|------|----|---|
| LI   | NA   | K   | RB   | CS    | NA+K |      |    |   |
| 0.4L | 190. | 0.8 |      |       |      |      |    |   |
| MG   | CA   | SR  | BA   | CA+MG |      |      |    |   |
| 0.4  | 3.8  |     |      |       |      |      |    |   |
| ZN   | HG   | B   | HB02 | AL    | PB   | AS   | SB | U |
|      |      | 0.5 |      |       |      |      |    |   |
| F    | CL   | BR  | I    |       |      |      |    |   |
| 3.8  | 69.6 |     |      |       |      |      |    |   |
| NH4  | NO3  | P04 | SI02 | S04   | C03  | HC03 |    |   |
|      | 9.4  |     | 22   | 115.  |      | 237. |    |   |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT, TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00487

RECORD IDENTIFICATION

RECORD NO..... 0015367  
 CROSS INDEX NO..  
 RECORD TYPE..... B

REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... WELL  
 NAME OF SAMPLE SOURCE.. OJOS CALIENTES (NO. 3)  
 COUNTRY CODE..... US  
 STATE/PROVINCE..... TEXAS

COUNTRY NAME..... UNITED STATES

SAMPLE INFORMATION

WATER SAMPLING TEMP.... 90. C  
 OTHER SAMPLE INFORMATION: SATURATION INDEX=0.59

WATER ANALYSIS

PH 1)..... 8.1

TOTAL DISSOLVED SOLIDS... 2239. MG/L

ISOTOPIC DATA

DEL O(18) OF WATER..... -6.9 0/00  
 DEL D OF WATER..... -54 0/00

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

|      |      |     |      |       |      |      |    |   |
|------|------|-----|------|-------|------|------|----|---|
| LI   | NA   | K   | RB   | CS    | NA+K |      |    |   |
| 0.9  | 750. | 68. |      |       |      |      |    |   |
| MG   | CA   | SR  | BA   | CA+MG |      |      |    |   |
| 2.1  | 25.  | 1.4 |      |       |      |      |    |   |
| ZN   | HG   | B   | HB02 | AL    | PB   | AS   | SB | U |
|      |      | 1.8 |      |       |      |      |    |   |
| F    | CL   | BR  | I    |       |      |      |    |   |
| 11.8 | 452. |     |      |       |      |      |    |   |
| NH4  | NO3  | PO4 | SI02 | S04   | CO3  | HC03 |    |   |
|      | 0.8  |     | 95.  | 458.  |      | 756. |    |   |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT, TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT

RECORD 00488

RECORD IDENTIFICATION

RECORD NO.... 0015374  
 CROSS INDEX NO..  
 RECORD TYPE..... B

REPORTER

NAME..... TESHIN, VICTOR  
 DATE..... 78/06  
 ORGANIZATION.. U. S. GEOLOGICAL SURVEY

GEOGRAPHIC LOCALITY

SAMPLE TYPE..... SURFACE  
 NAME OF SAMPLE SOURCE.. MEXICAN SPRINGS  
 COUNTRY CODE..... US  
 STATE/PROVINCE..... TEXAS

COUNTRY NAME..... UNITED STATES

SAMPLE INFORMATION

WATER SAMPLING TEMP.... 24.4 C  
 OTHER SAMPLE INFORMATION: SATURATION INDEX=-0.64;

WATER ANALYSIS

PH 1)..... W 7.2  
 TOTAL DISSOLVED SOLIDS... 586. MG/L

ISOTOPIC DATA

DEL O(18) OF WATER..... -7.7 0/00  
 DEL D OF WATER..... -47 0/00

SOLUTE ANALYSIS (WATER)

UNITS USED..... MG/L

|      |      |     |    |       |      |
|------|------|-----|----|-------|------|
| LI   | NA   | K   | RB | CS    | NA+K |
| 0.1L | 2.12 | 1.6 |    |       |      |
| MG   | CA   | SR  | BA | CA+MG |      |

|      |      |     |      |      |     |      |    |   |
|------|------|-----|------|------|-----|------|----|---|
| 0.66 | 12.  |     |      |      |     |      |    |   |
| ZN   | HG   | B   | HB02 | AL   | PB  | AS   | SB | U |
|      |      | 0.2 |      |      |     |      |    |   |
| F    | CL   | BR  | I    |      |     |      |    |   |
| 3.2  | 35.2 |     |      |      |     |      |    |   |
| NH4  | NO3  | P04 | SI02 | S04  | C03 | HC03 |    |   |
|      | 0.3  |     | 39.  | 54.4 |     | 462. |    |   |

REFERENCES: HENRY, CHRISTOPHER D.; GEOLOGIC SETTING AND GEOCHEM. OF THERMAL WATERS AND GEOTHERMAL ASSESSMENT, TRANS-PECOS TEXAS; UNIV. OF TEXAS AT AUSTIN, JUNE 1, 1976 - MAY 31, 1977 FINAL REPORT