



| EXPLANATION | | QUATERNARY |
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| PLEISTOCENE | LISSIE FORMATION (CHOCOLATE-COLORED SANDS AND GRAVELS; TOO THIN TO YIELD MUCH WATER IN DUVAL COUNTY) | |
| UNCONFORMITY | | TERTIARY |
| PLIOCENE | GOLIAD SAND (GRAY CALCAREOUS, CLAYEY SANDSTONES, SANDS, AND GRAVELS AND SANDY CLAY; PRINCIPAL WATER-BEARING FORMATION IN DUVAL COUNTY) | |
| UNCONFORMITY | | TERTIARY |
| MIOCENE (?) | LAGARTO CLAY (GREEN TO RED JOINT CLAY WITH SANDSTONE LENTILS WHICH YIELD SOME WATER) | |
| UNCONFORMITY | | TERTIARY |
| MIOCENE | OAKVILLE SANDSTONE (BROWN SANDSTONE AND CLAY; YIELDS SMALL SUPPLIES OF RATHER HIGHLY MINERALIZED WATER) | |
| UNCONFORMITY | | TERTIARY |
| MIOCENE (?) | CATAHOULA TUFF (TUFFACEOUS CLAYS AND SANDSTONE AND CONGLOMERATE; YIELDS SMALL TO MODERATE SUPPLIES OF RATHER HIGHLY MINERALIZED WATER) | |
| UNCONFORMITY | | TERTIARY |
| OLIGOCENE (?) | FRIO CLAY (LARGELY CLAY; NOT GENERALLY WATER-BEARING) | |

| EXPLANATION | |
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| ○ | DRILLED WELL |
| ◊ | DUG WELL |
| ⊕ | UNSUCCESSFUL WELL |
| ⊖ | WELL DRILLED IN SEARCH OF OIL OR GAS |
| ⊙ | FLOWING WELL |
| ⊚ | WELL EQUIPPED WITH PUMPING PLANT (ELECTRIC, GASOLINE, OR AIR) |
| ⊛ | UNUSED WELL |
| 123 | UPPER FIGURE CORRESPONDS TO WELL NUMBER IN TABLES |
| 123 | LOWER FIGURE GIVES DEPTH OF WELL IN FEET |
| (123) | WATER ANALYZED IN U. S. GEOLOGICAL SURVEY LABORATORY |
| (123) | WATER TESTED IN THE FIELD FOR CHLORIDE AND HARDNESS |

BASE COMPILED FROM MAPS OF LAND SURVEYS AND LAND OWNERSHIP AND FROM FIELD NOTES.

PREPARED IN COOPERATION WITH THE TEXAS BOARD OF WATER ENGINEERS FIELD WORK BY ALBERT NELSON SAYRE

GEOLOGIC MAP OF DUVAL COUNTY, TEXAS, SHOWING LOCATION OF WELLS

