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45° 46° 47° 48°

26° 25° 24°

AL MAJMAAH .0046
JALAJIL
AL HAWTAH .0039
TUMAIR .0038
RUMAH
USHAYQIR
SHAQRA .0021
MARAH
HURAYMILA .0027 .0024
SALBUKH WELL FIELD .0029 .0029
BUWAYB WELL FIELD .0025 .0035
BANBAN
AL BARRAH .0028
AD DIRIYAH .0030 .0024 .0045
KHASHM ALAN .0029
RIYADH
DURMA
DIRAB .0017
AL HA'IR .0040 .0038 .0032
AL KHARJ .0022

.0027 .0021 .0039 .0022 .0023 .0033 .0035 .0064 .0033 .0035 .0031 .0054 .0069

.002 .003 .004 .005 .006 .001

EXPLANATION

–.002– LINE OF EQUAL TRANSMISSIVITY -- Interval 0.001 meters squared per second.

AQUIFER TEST SITES USED FOR CONTROL -- Number is transmissivity in meters squared per second.

.0021 AQUIFER TEST

.0035 SPECIFIC CAPACITY TEST

MINJUR FORMATION OUTCROP AREA

GRABEN SYSTEM

10 0 10 20 30 40
KILOMETERS

"Base from Ministry of Defence, United Kingdom Series 1404 Sheet 546-C, Edition 1-GS GS, 1965"

"Outcrop Geology by U.S. Geological Survey and Arabian American Oil Co., 1963"

Figure 4.- Approximate transmissivity of the upper Minjur aquifer.

SIMULATED CHANGES IN WATER LEVELS IN THE MINJUR AQUIFER, RIYADH AREA, SAUDI ARABIA
by
JAMES F. WILLIAMS, 1982