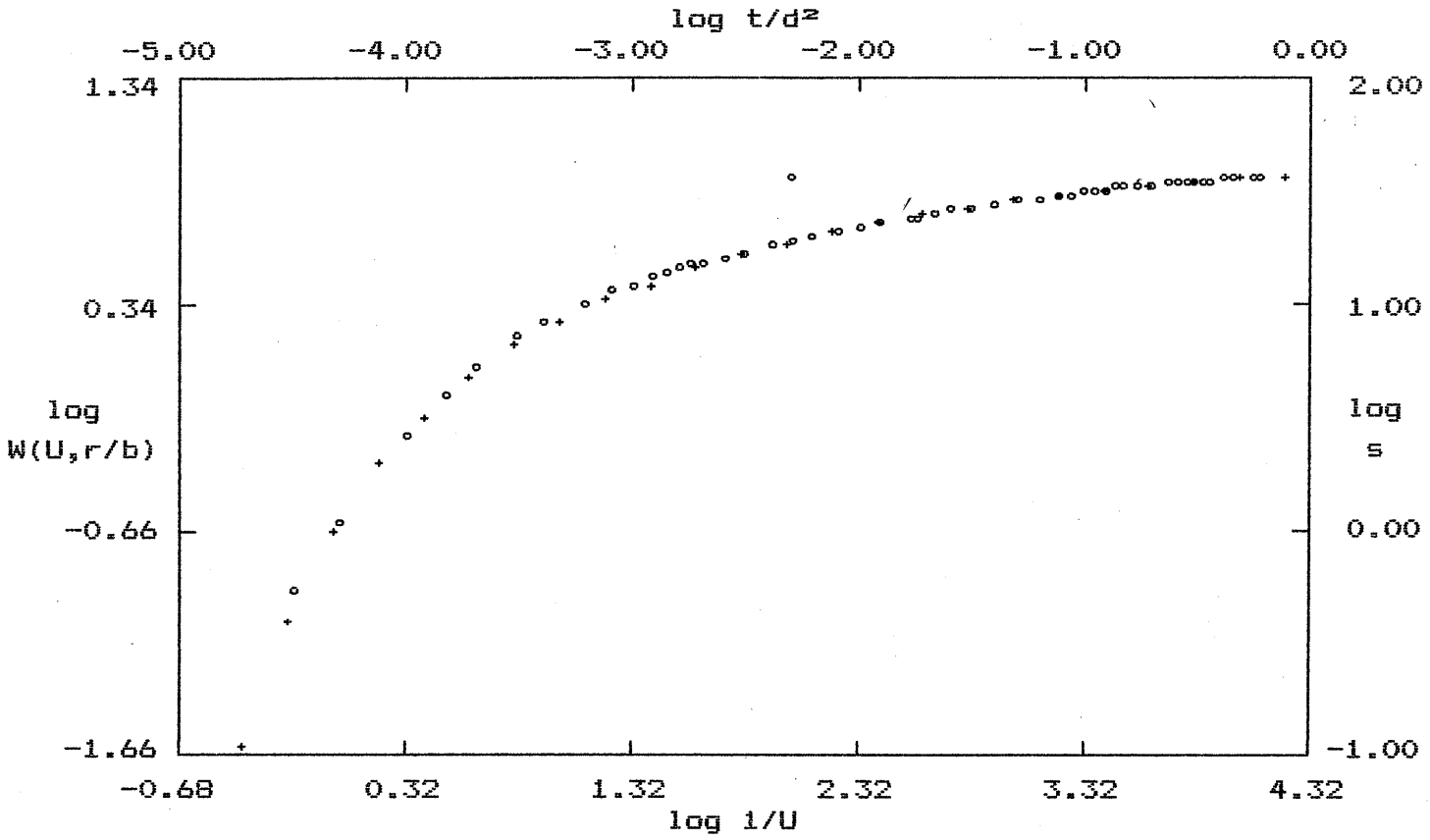
PUMP TEST DATA



o - Data

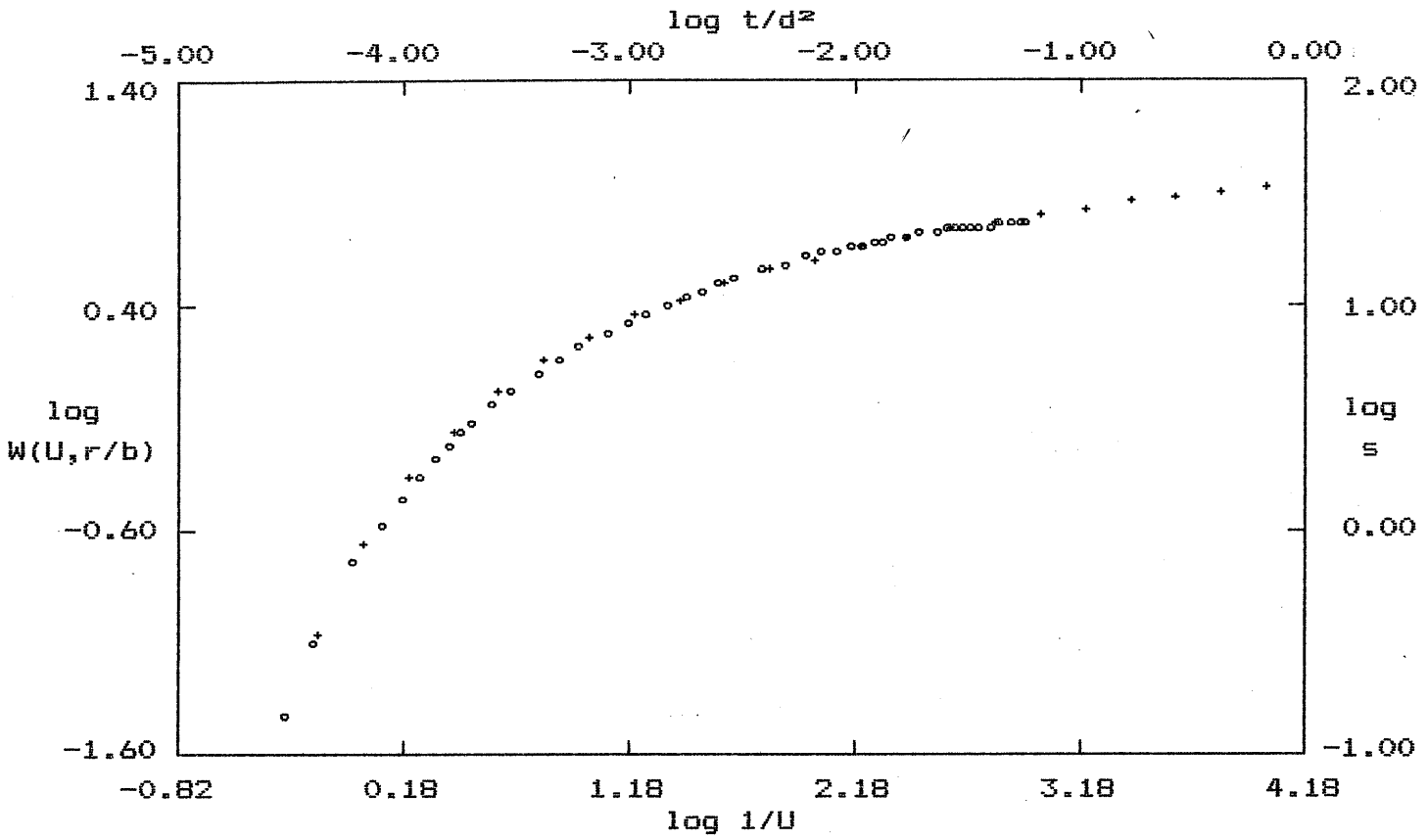
\+ - Type Curve
Confined Leaky: r/B = 0.02

SOLUTION

Transmissivity = 1.210E+00 ft.²/min. = 13,033 gpd/ft
Storativity = 2.317E-04

Silver Strand Groves C0753

PUMP TEST DATA



o - Data

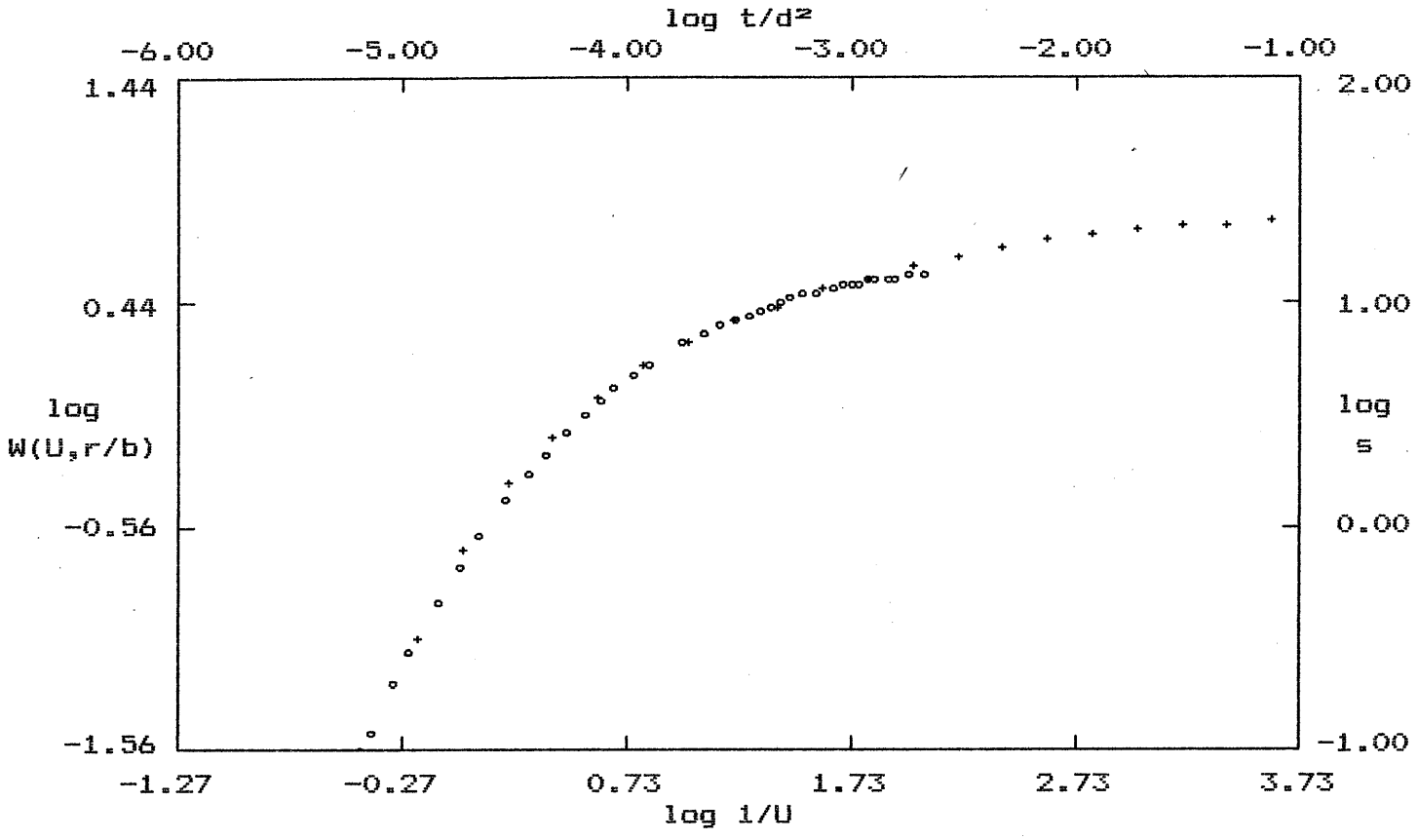
\+ - Type Curve
Confined Leaky: r/B = 0.01

SOLUTION

Transmissivity = 1.390E+00 ft.²/min. = 14,972 gpd/ft
Storativity = 3.672E-04

Silver Strand Groves C0754

PUMP TEST DATA



o - Data

\+ - Type Curve
Confined Leaky: r/B = 0.05

SOLUTION

Transmissivity = 1.524E+00 ft.²/min. = 16,372 gpd/ft
Storativity = 1.135E-04

Silver Strand Groves CO 756

PROJECTED CONE-OF-DEPRESSION
SILVER STRAND GROVES

TRANSMISSIVITY = 14,000 GPD/FT
LEAKANCE = 0.002 GPD/FT3
PUMPAGE = 17 MGD (MAX DAY)

STEADY-STATE LEAKY
ARTESIAN AQUIFER MODEL

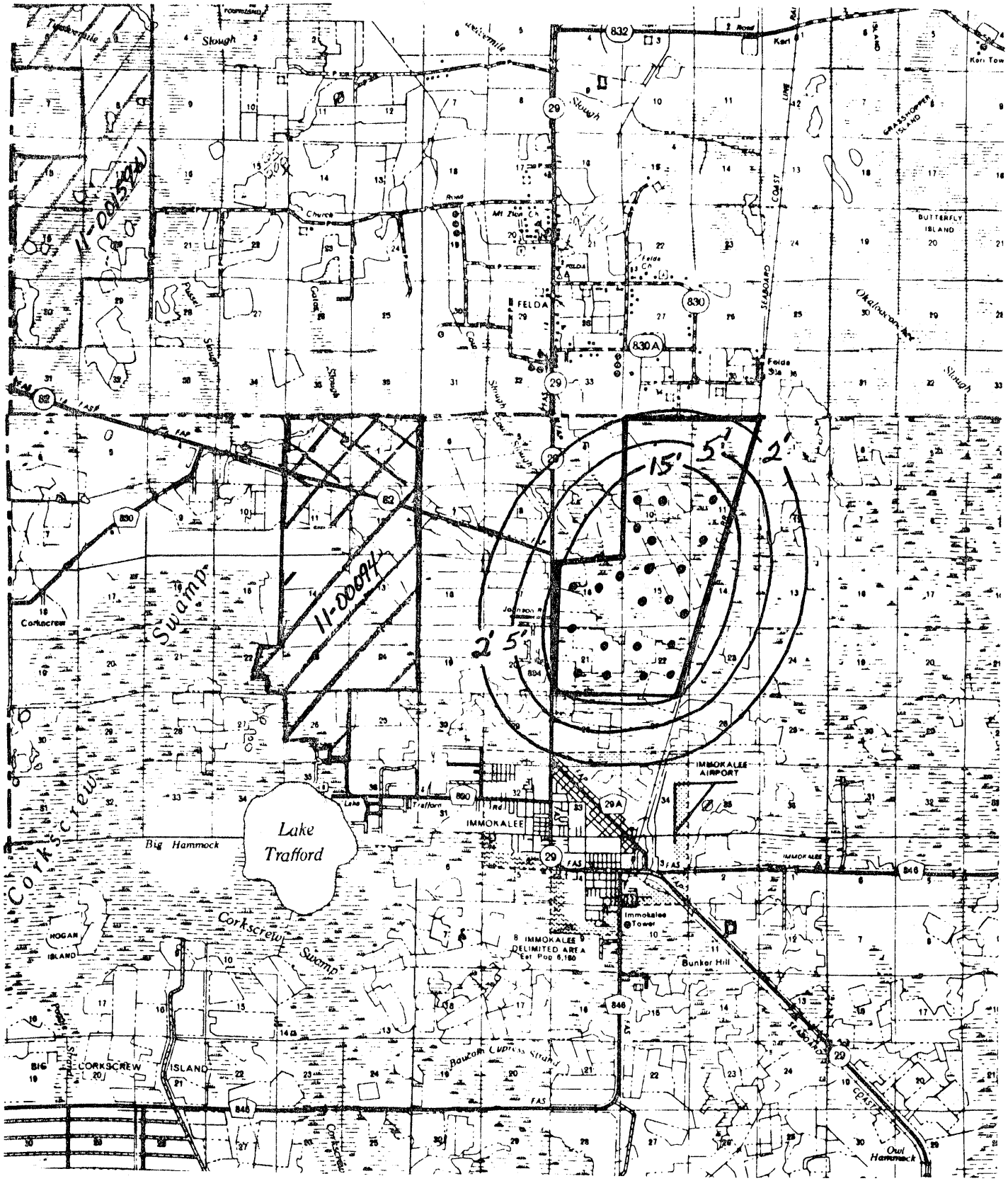


EXHIBIT 5

TABLE 4-1. AQUIFER COEFFICIENTS CALCULATED FOR THE HAWTHORN ZONE I AQUIFER

Analysis Method	T(gpd/ft)	S	k'/b' (gpd/ft^3)
Well CO-753			
1. Hantush-Jacob	12,955	2.2×10^{-4}	2.3×10^{-3}
2. Jacob	14,450	1.7×10^{-4}	
Well CO-754			
1. Hantush-Jacob	14,188	3.7×10^{-4}	1.0×10^{-3}
2. Jacob	14,450	3.8×10^{-4}	
Well CO-756			
1. Hantush-Jacob	14,898	1.3×10^{-4}	4.2×10^{-4}
2. Jacob	19,056	8.3×10^{-5}	
Distance Drawdown			
1. Jacob - 10 min.	12,200	2.3×10^{-4}	
2. Jacob - 100 min.	12,042	2.3×10^{-4}	
3. Jacob - 1000 min.	11,990	4.3×10^{-4}	

$$S = \frac{0.3\ T\ t_o}{r^2}$$

where,

T = transmissivity, gpd/ft

Q = discharge, gpm

Δs = drawdown between log cycles, in feet

t_o = time, in days

r = distance from pumped well, in feet

S = storage coefficient

The calculated results obtained using this method are almost identical for the drawdowns plotted at 10 minutes, 100 minutes and 1,000 minutes.

The following hydraulic coefficients will be used for predictive modeling of aquifer response to pumping:

Transmissivity	=	14,000 gpd/ft
Storage Coefficient	=	2×10^{-4}
Leakance	=	2×10^{-3} gpd/ft^3

```
  31  9.83      1921.      .1082E-03 .8229E-04
  32  9.83      1922.      .1080E-03 .8185E-04
  33  9.83      1923.      .1078E-03 .8145E-04
  34  9.83      1924.      .1076E-03 .8107E-04
  35  9.83      1925.      .1074E-03 .8072E-04
  36  9.83      1926.      .1072E-03 .8040E-04
  37  9.83      1926.      .1070E-03 .8010E-04
  38  9.83      1927.      .1069E-03 .7982E-04
  39  9.83      1927.      .1067E-03 .7956E-04
  40  9.83      1928.      .1066E-03 .7932E-04
  42  9.83      1929.      .1064E-03 .7887E-04
  44  9.82      1930.      .1061E-03 .7847E-04
  46  9.82      1931.      .1059E-03 .7813E-04
  48  9.82      1932.      .1058E-03 .7784E-04

TERMINATION DUE TO FUNCTION CONVERGENCE

FINAL RESULTS
ITER  FUNCTION  TRANSMISS STORTIVTY SPEC_LEAK
  49  9.82      1932.      .1057E-03 .7784E-04
FRACTIONAL COMPONENTS OF FUNCTION VALUE
WELL #    1         2         3
       1.000     .0000     .0000

DO YOU WANT A SENSITIVITY ANALYSIS ? (Y/N)

             SENSITIVITY ANALYSIS


   TWO STANDARD DEVIATION CONFIDENCE INTERVALS
-------------------------------------------------------
PARAMETER     VALUE       LOWER LIMIT    UPPER LIMIT

TRANSMISS   1932.          1930.          1933.
STORTIVTY   .1057E-03     0.5599E-04     0.1554E-03
SPEC_LEAK   .7771E-04     0.0000         0.1788E-03


TO CONTINUE ENTER "RETURN"
```

Silver Strand Grove C0753

$T = 14,451$ gpd/ft

$S = 1.057 \times 10^{-4}$

$K'/b' = 7.784 \times 10^{-5}$ day^{-1}

6	.237	2007.	.3137E-03	.6486E-04
7	.158	1942.	.3374E-03	.9515E-04
8	.106	1886.	.3593E-03	.1256E-03
9	.762E-01	1842.	.3775E-03	.1534E-03
10	.607E-01	1809.	.3915E-03	.1763E-03
11	.539E-01	1787.	.4014E-03	.1932E-03
12	.514E-01	1773.	.4079E-03	.2043E-03
13	.501E-01	1765.	.4119E-03	.2109E-03
14	.496E-01	1759.	.4144E-03	.2152E-03
15	.493E-01	1756.	.4159E-03	.2178E-03
16	.492E-01	1754.	.4167E-03	.2193E-03
17	.491E-01	1753.	.4172E-03	.2202E-03
18	.490E-01	1753.	.4175E-03	.2209E-03
19	.490E-01	1752.	.4177E-03	.2213E-03

TERMINATION DUE TO PARAMETER CONVERGENCE

FINAL RESULTS

ITER	FUNCTION	TRANSMISS	STORTIVTY	SPEC_LEAK
19	.490E-01	1752.	.4178E-03	.2213E-03

FRACTIONAL COMPONENTS OF FUNCTION VALUE

WELL #	1	2	3
	.0000	1.000	.0000

DO YOU WANT A SENSITIVITY ANALYSIS ? (Y/N)

SENSITIVITY ANALYSIS

TWO STANDARD DEVIATION CONFIDENCE INTERVALS

PARAMETER	VALUE	LOWER LIMIT	UPPER LIMIT
TRANSMISS	1752.	1746.	1758.
STORTIVTY	.4178E-03	0.1976E-03	0.6380E-03
SPEC_LEAK	.2214E-03	0.0000	0.5493E-03

TO CONTINUE ENTER "RETURN"

Silver Strand Geo 08 CO754

$T = 13{,}090$ gpd/ft

$S = 4.178 \times 10^{-4}$

$K'/b' = 2.213 \times 10^{-4}$ day^{-1}

```
  9  .178E-01  1863.     .1204E-03 .6539E-04
 10  .153E-01  1854.     .1198E-03 .6732E-04
 11  .136E-01  1846.     .1194E-03 .6899E-04
 12  .123E-01  1839.     .1190E-03 .7043E-04
 13  .113E-01  1832.     .1187E-03 .7169E-04
 14  .106E-01  1827.     .1185E-03 .7278E-04
 15  .101E-01  1822.     .1183E-03 .7375E-04
 16  .966E-02  1818.     .1181E-03 .7460E-04
 17  .935E-02  1814.     .1180E-03 .7535E-04
 18  .909E-02  1810.     .1179E-03 .7603E-04
 19  .889E-02  1807.     .1179E-03 .7663E-04
 20  .871E-02  1804.     .1179E-03 .7718E-04
 21  .857E-02  1801.     .1178E-03 .7768E-04
 22  .846E-02  1798.     .1178E-03 .7798E-04

TERMINATION DUE TO PARAMETER CONVERGENCE

FINAL RESULTS
ITER  FUNCTION  TRANSMISS STORTIVTY SPEC_LEAK
  25  .846E-02  1798.     .1178E-03 .7798E-04
FRACTIONAL COMPONENTS OF FUNCTION VALUE
WELL #    1         2         3
       .0000     .0000     1.000

DO YOU WANT A SENSITIVITY ANALYSIS ? (Y/N)

             SENSITIVITY ANALYSIS


   TWO STANDARD DEVIATION CONFIDENCE INTERVALS
-------------------------------------------------------
PARAMETER     VALUE      LOWER LIMIT    UPPER LIMIT

TRANSMISS   1798.          1796.          1800.
STORTIVTY   .1178E-03     0.2991E-04     0.2057E-03
SPEC_LEAK   .7803E-04     0.0000         0.1868E-03


TO CONTINUE ENTER "RETURN"
```

Silva Stand Grove CO 756

$T = 13,449$ gpd/ft

$S = 1.178 \times 10^{-4}$

$K'/b' = 7.798 \times 10^{-5}$ day^{-1}

OPTIMIZATION BY LEVENBERG-MARQUARDT MINIMIZATION ALGORITHM

ITER	FUNCTION	TRANSMISS	STORTIVTY
1	62.0	1466.	.1006E-02
3	29.7	2153.	.2280E-03
5	21.6	1964.	.1821E-03
7	21.4	2011.	.1803E-03

TERMINATION DUE TO PARAMETER CONVERGENCE

FINAL RESULTS

ITER	FUNCTION	TRANSMISS	STORTIVTY
7	21.4	2002.	.1810E-03

FRACTIONAL COMPONENTS OF FUNCTION VALUE

WELL #	1	2	3
	.6716	.2896	.3882E-01

DO YOU WANT A SENSITIVITY ANALYSIS ? (Y/N)

Silver Island Grouse Creek Wells

T = 14,975 gpd/ft

S = 1.81 x 10⁻⁴

K'/b' = ?

SENSITIVITY ANALYSIS

TWO STANDARD DEVIATION CONFIDENCE INTERVALS

PARAMETER	VALUE	LOWER LIMIT	UPPER LIMIT
TRANSMISS	2002.	2000.	2003.
STORTIVTY	.1810E-03	0.1379E-03	0.2241E-03

TO CONTINUE ENTER "RETURN"