

2	.152E-01	.7527E+05	.2322E-03	.5185E-03
3	.220E-02	.6633E+05	.2263E-03	.3599E-04
5	.321E-03	.6575E+05	.2261E-03	.1500E-03
7	.207E-03	.6365E+05	.2320E-03	.2237E-03
9	.162E-03	.6262E+05	.2500E-03	.2836E-03
11	.151E-03	.6212E+05	.2557E-03	.2852E-03
12	.148E-03	.6185E+05	.2600E-03	.2959E-03
13	.147E-03	.6165E+05	.2630E-03	.3028E-03
14	.146E-03	.6152E+05	.2651E-03	.3077E-03
15	.146E-03	.6143E+05	.2665E-03	.3111E-03
16	.146E-03	.6138E+05	.2675E-03	.3133E-03
17	.146E-03	.6134E+05	.2681E-03	.3148E-03
18	.146E-03	.6131E+05	.2686E-03	.3158E-03
20	.146E-03	.6128E+05	.2691E-03	.3171E-03

TERMINATION DUE TO PARAMETER CONVERGENCE

FINAL RESULTS

ITER	FUNCTION	TRANSMISS	STORTIVITY	SPEC_LEAK
20	.146E-03	.6127E+05	.2692E-03	.3171E-03

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	.6127E+05	0.6114E+05	0.6141E+05
STORTIVITY	.2692E-03	0.0000	0.4674E-02
SPEC_LEAK	.3173E-03	0.0000	0.8442E-02

TO CONTINUE ENTER "RETURN"

USSC Phase III well 1

assume all wells are fully penetrating

$$T = 458,300 \text{ gpd/ft}$$

$$S = 2.692 \times 10^{-4}$$

$$K'/b = 3.171 \times 10^{-4} \text{ day}^{-1}$$

OPTIMIZATION BY LEVENBERG-MARQUARDT MINIMIZATION ALGORITHM

ITER	FUNCTION	TRANSMISS	STORTIVITY	SPEC_LEAK
1	.180E-02	.6127E+05	.2692E-03	.3173E-03
3	.247E-03	.5726E+05	.2541E-03	.9002E-03
5	.180E-03	.6016E+05	.2543E-03	.6574E-03
7	.177E-03	.5911E+05	.2554E-03	.7027E-03
9	.176E-03	.5917E+05	.2562E-03	.7092E-03

TERMINATION DUE TO PARAMETER CONVERGENCE

FINAL RESULTS

ITER	FUNCTION	TRANSMISS	STORTIVITY	SPEC_LEAK
9	.176E-03	.5915E+05	.2564E-03	.7092E-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	.5915E+05	0.5899E+05	0.5930E+05
STORTIVITY	.2564E-03	0.0000	0.5173E-02
SPEC_LEAK	.7094E-03	0.0000	0.1491E-01

TO CONTINUE ENTER "RETURN"

USSC Phase III well 2
assume all wells fully penetrating
 $T = 422,422 \text{ gpd/ft}$
 $S = 2.564 \times 10^{-4}$
 $K'/b' = 7.092 \times 10^{-4} \text{ day}^{-1}$

OPTIMIZATION BY LEVENBERG-MARQUARDT MINIMIZATION ALGORITHM

ITER	FUNCTION	TRANSMISS	STORTIVTY	SPEC_LEAK
1	.161E-02	.5915E+05	.2564E-03	.7094E-03
2	.929E-03	.6472E+05	.2859E-03	.2197E-03
4	.513E-03	.6216E+05	.2893E-03	.3483E-03
6	.479E-03	.6110E+05	.2967E-03	.3992E-03
8	.474E-03	.5991E+05	.3085E-03	.4389E-03
9	.474E-03	.5970E+05	.3099E-03	.4441E-03
11	.474E-03	.5965E+05	.3104E-03	.4459E-03
13	.474E-03	.5965E+05	.3105E-03	.4467E-03

TERMINATION DUE TO PARAMETER CONVERGENCE

FINAL RESULTS

ITER	FUNCTION	TRANSMISS	STORTIVTY	SPEC_LEAK
16	.474E-03	.5964E+05	.3106E-03	.4467E-03

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	.5964E+05	0.5947E+05	0.5981E+05
STORTIVTY	.3106E-03	0.0000	0.5735E-02
SPEC_LEAK	.4470E-03	0.0000	0.9732E-02

TO CONTINUE ENTER "RETURN"

USSC Phase III well 3
assume all wells fully penetrating

T = 446,107 gpd/ft

S = 3.106×10^{-4}

K/b = $4.467 \times 10^{-4} \text{ day}^{-1}$

5	.170E-02	.5904E+05	.3090E-03	.5047E-03
6	.168E-02	.5883E+05	.3084E-03	.5154E-03
7	.167E-02	.5866E+05	.3079E-03	.5243E-03
8	.166E-02	.5851E+05	.3074E-03	.5318E-03
9	.165E-02	.5840E+05	.3070E-03	.5380E-03
10	.165E-02	.5830E+05	.3066E-03	.5430E-03
11	.164E-02	.5823E+05	.3063E-03	.5471E-03
12	.164E-02	.5817E+05	.3060E-03	.5504E-03
13	.164E-02	.5812E+05	.3057E-03	.5530E-03
14	.164E-02	.5808E+05	.3055E-03	.5550E-03
15	.164E-02	.5806E+05	.3052E-03	.5566E-03
16	.164E-02	.5804E+05	.3050E-03	.5578E-03
17	.164E-02	.5802E+05	.3048E-03	.5587E-03
18	.164E-02	.5801E+05	.3046E-03	.5594E-03

TERMINATION DUE TO PARAMETER CONVERGENCE

FINAL RESULTS

ITER FUNCTION TRANSMISS STORTIVTY SPEC LEAK

18 .164E-02 .5800E+05 .3045E-03 .5594E-03

FRACTIONAL COMPONENTS OF FUNCTION VALUE

WELL #	1	2	3
	.2153	.4439	.3409

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

SENSITIVITY ANALYSIS

TWO STANDARD DEVIATION CONFIDENCE INTERVALS

PARAMETER	VALUE	LOWER LIMIT	UPPER LIMIT
TRANSMISS	.5800E+05	0.5791E+05	0.5810E+05
STORTIVTY	.3045E-03	0.0000	0.3333E-02
SPEC_LEAK	.5598E-03	0.0000	0.7241E-02

TO CONTINUE ENTER "RETURN"

USSC Phase III all wells

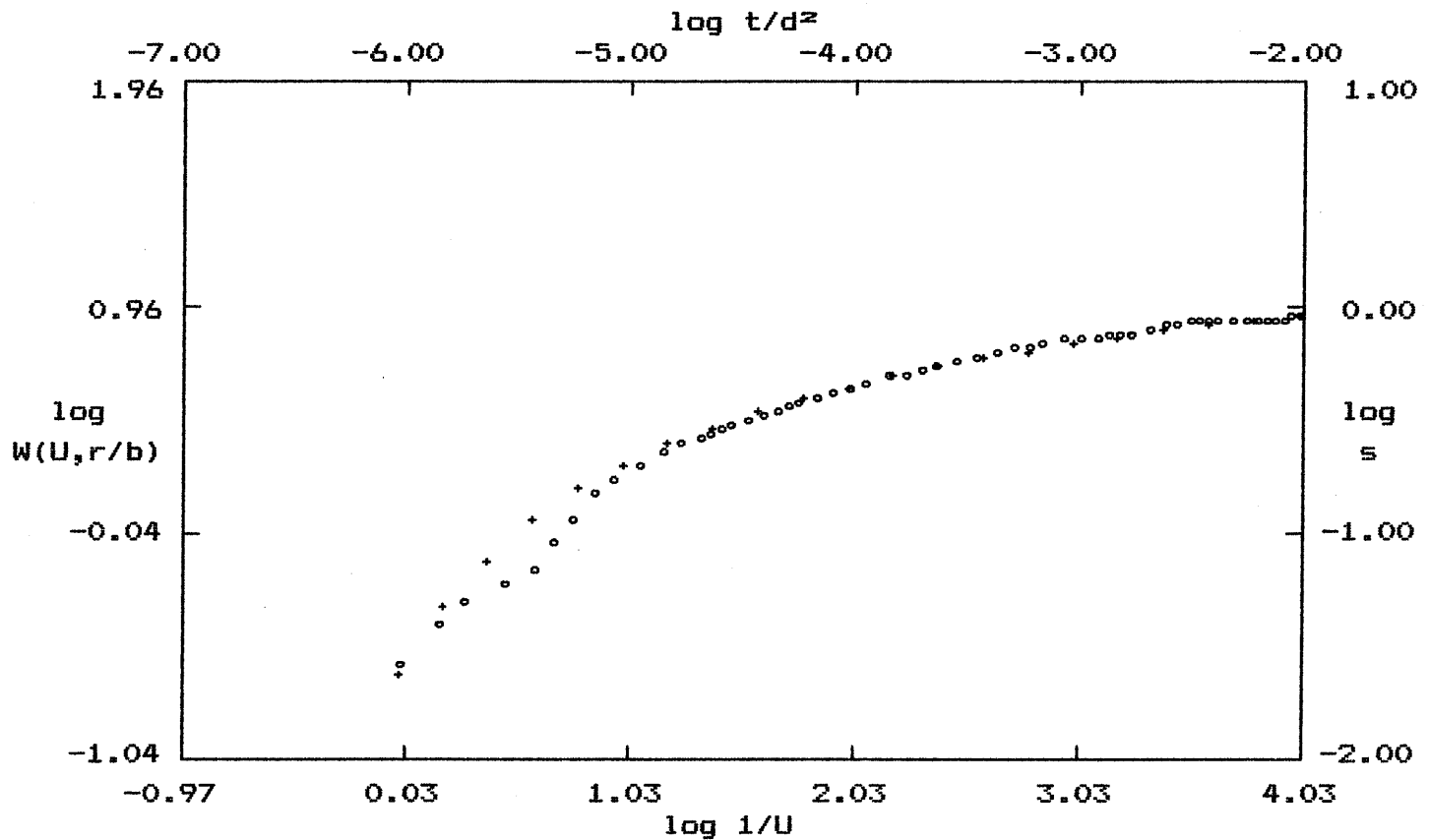
assume all wells fully penetrating

T = 433,840 gpd/ft

S = 3.045 x 10⁻⁴

K/b = 5.594 x 10⁻⁴

PUMP TEST DATA



o - Data

+ - Type Curve

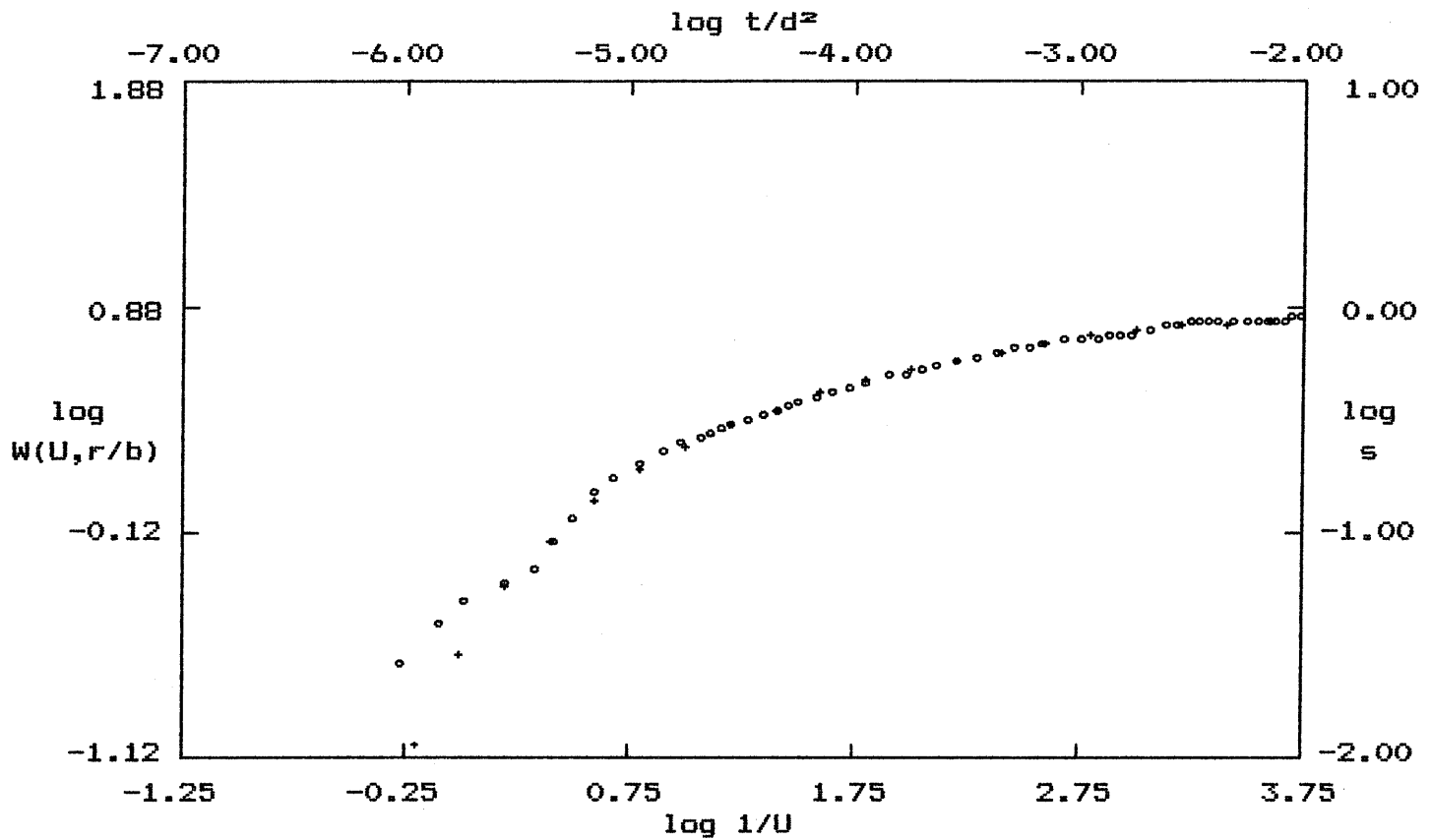
Confined Leaky: $r/B = 0.01$

SOLUTION

Transmissivity = $4.929E+01$ ft.²/min. = 530,912 gpd/ft
 Storativity = $1.840E-04$

USSC Phase III well 1

PUMP TEST DATA



o - Data

+ - Type Curve

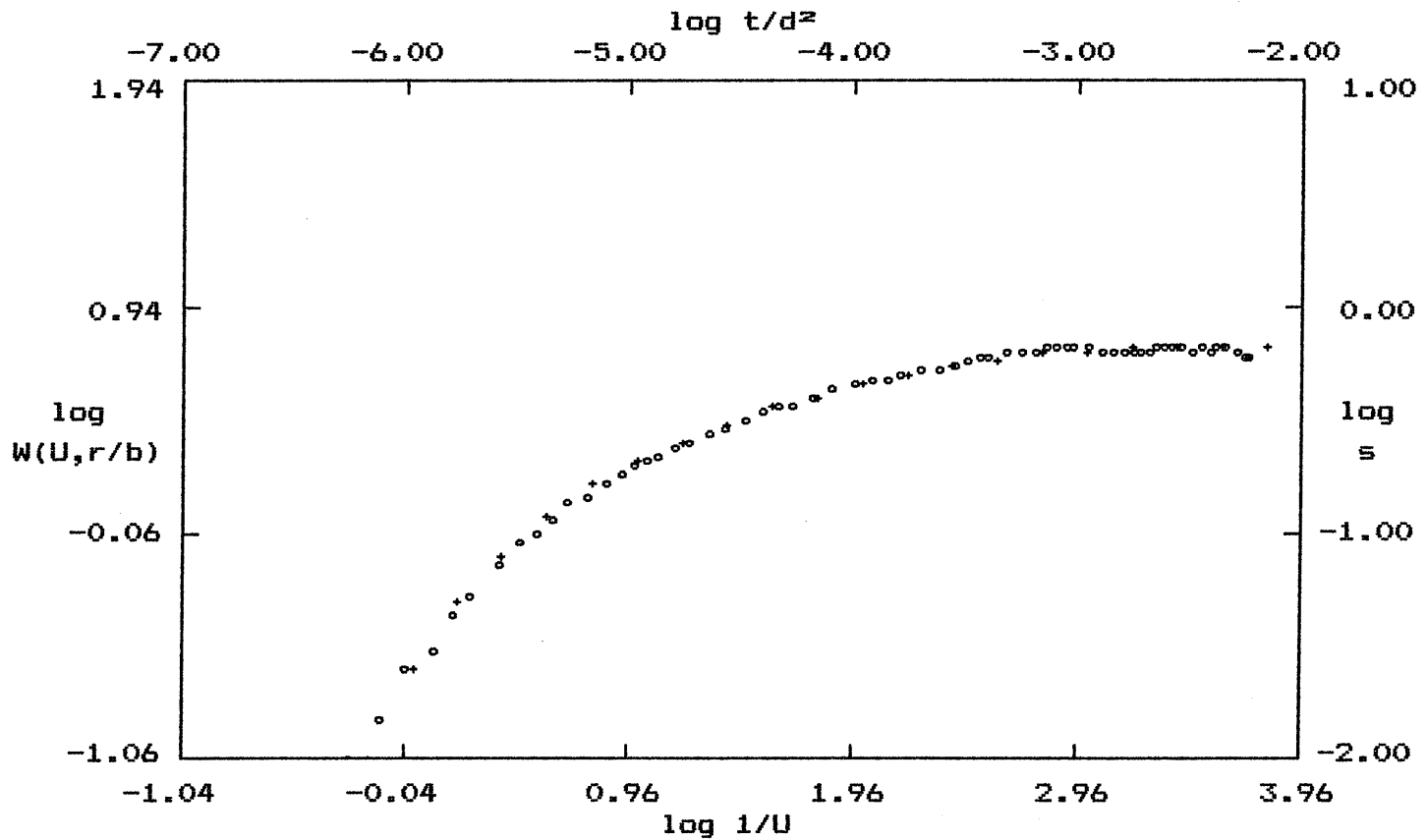
Confined Leaky: $r/B = 0.04$

SOLUTION

Transmissivity = $4.099E+01$ ft.²/min. $\approx 441,511$ gpd/ft
 Storativity = $2.916E-04$

USSC Phase III well 1

PUMP TEST DATA



o - Data

+ - Type Curve

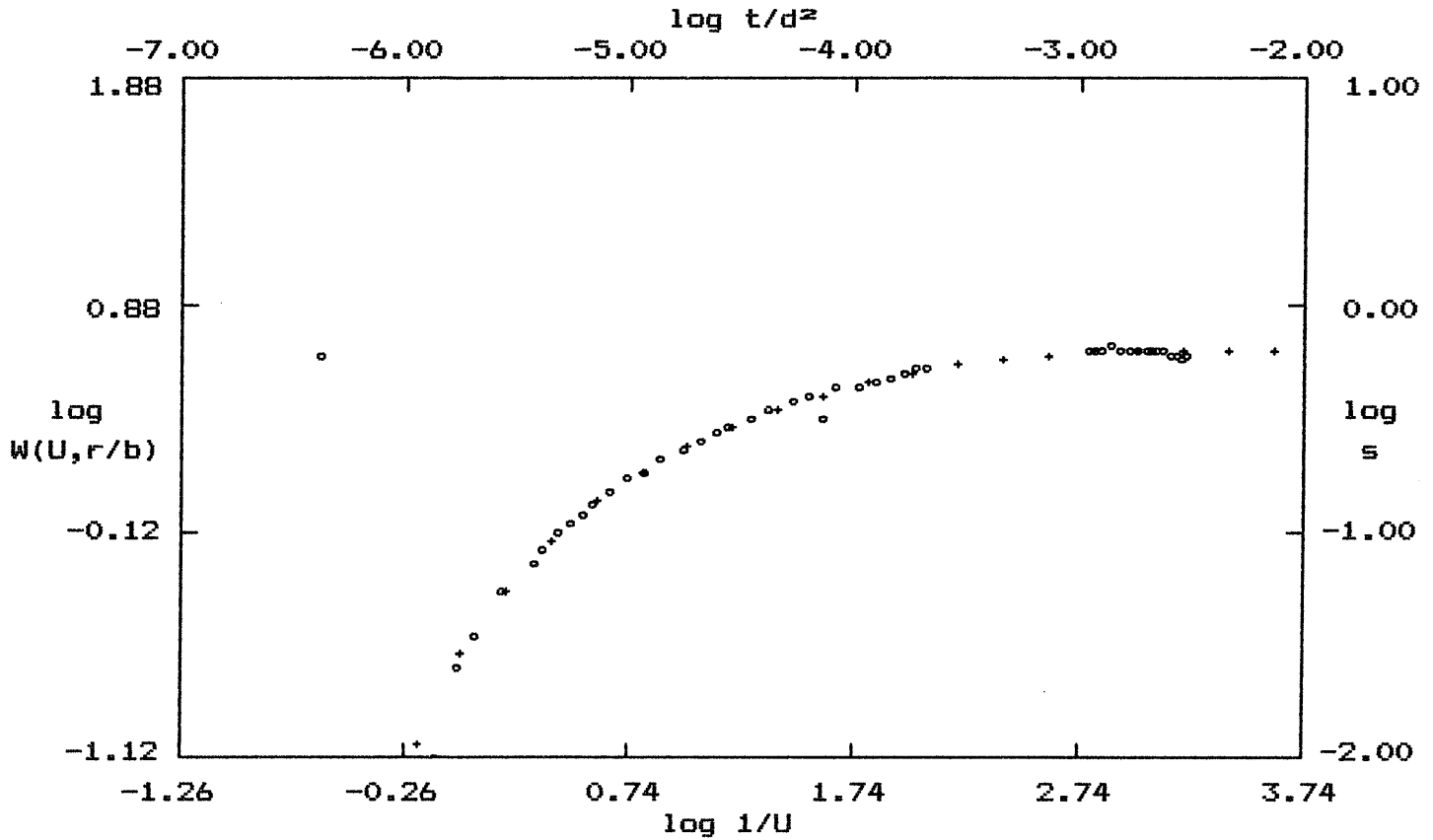
Confined Leaky: $r/B = 0.06$

SOLUTION

Transmissivity = $4.707E+01$ ft.²/min. $\approx 507,000$ gpd/ft
 Storativity = $2.064E-04$

USSC Phase III well 2

PUMP TEST DATA



o - Data

+ - Type Curve

Confined Leaky: $r/B = 0.10$

SOLUTION

Transmissivity = $4.099E+01$ ft.²/min. = 441,511 gpd/ft

Storativity = $2.984E-04$

USSC Phase III Well 3