

OPTIMIZATION BY LEVENBERG-MARQUARDT MINIMIZATION ALGORITHM

ITER	FUNCTION	TRANSMISS	STORTIVITY
1	27.9	2918.	.3500E-03 .1000
3	.714	7176.	.2857E-03 .1012
5	.847E-01	9076.	.1838E-03 .1394
7	.788E-01	7688.	.2421E-03 .2449
9	.758E-01	6874.	.2849E-03 .3805
10	.754E-01	5679.	.3658E-03 .7189
12	.402E-01	4626.	.4277E-03 1.444
14	.379E-01	4241.	.4404E-03 1.836
16	.377E-01	4242.	.4429E-03 1.818

TERMINATION DUE TO PARAMETER CONVERGENCE

FINAL RESULTS

ITER	FUNCTION	TRANSMISS	STORTIVITY
19	.377E-01	4244.	.4428E-03 1.818

FRACTIONAL COMPONENTS OF FUNCTION VALUE

WELL #	1	2
	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	4244.	4206.	4281.
STORTIVITY	.4428E-03	0.0000	0.2627E-02
	1.816	0.0000	4.147

TO CONTINUE ENTER "RETURN"

Gopher Ridge MW1

T = 31,745 gpd/ft

S = 4.428 x 10⁻⁴

K' = 1.818 ft/d

K_b' = 7.272 x 10⁻² day⁻¹

OPTIMIZATION BY LEVENBERG-MARQUARDT MINIMIZATION ALGORITHM

ITER FUNCTION TRANSMISS STORTIVTY

1	.135	.1393E+05	.3500E-03	.1000
3	.944E-01	.1455E+05	.3451E-03	.6446E-01
4	.226E-01	.1581E+05	.3472E-03	.1397E-01
5	.175E-02	.1434E+05	.3440E-03	.6714E-02
7	.409E-03	.1398E+05	.3611E-03	.1116E-01
9	.318E-03	.1380E+05	.3719E-03	.1285E-01
11	.312E-03	.1381E+05	.3723E-03	.1299E-01

TERMINATION DUE TO PARAMETER CONVERGENCE

FINAL RESULTS

ITER FUNCTION TRANSMISS STORTIVTY

11	.312E-03	.1381E+05	.3724E-03	.1299E-01
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FRACTIONAL COMPONENTS OF FUNCTION VALUE

WELL #	1	2
	.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	.1381E+05	0.1376E+05	0.1386E+05
STORTIVTY	.3724E-03	0.0000	0.1919E-02
	.1299E-01	0.0000	0.2430

TO CONTINUE ENTER "RETURN"

Gopher Ridge MW2

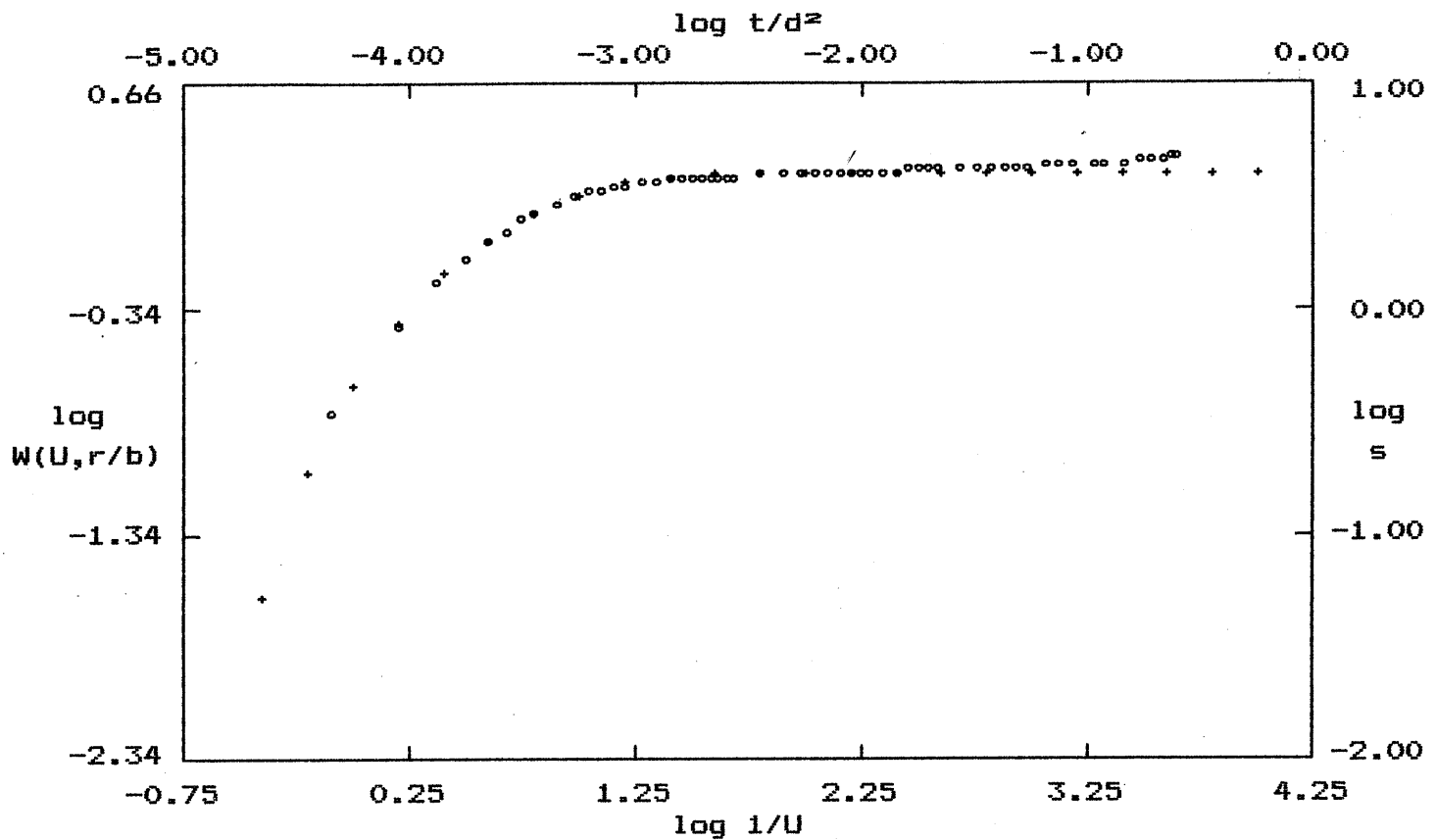
T = 103,299 gal/ft

S = 3.742 x 10⁻⁴

K' = .01299

K'/b' = 6.495 x 10⁻⁴ day⁻¹

PUMP TEST DATA



o - Data

+ - Type Curve

Confined Leaky: $r/B = 0.50$

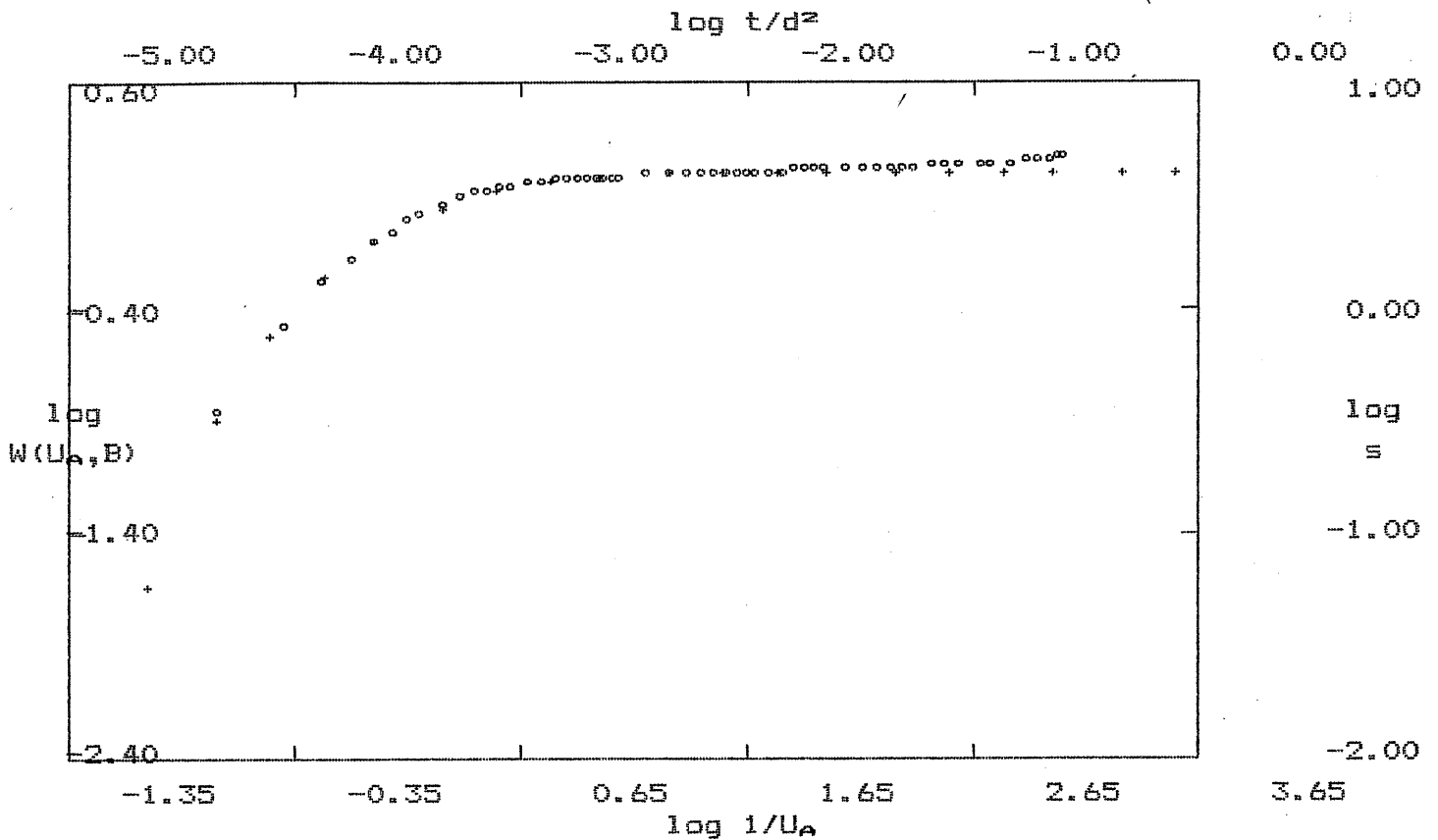
SOLUTION

Transmissivity = $1.945E+00$ ft.²/min. = 20,950 gpd/ft

Storativity = $4.375E-04$

Gopher Ridge MW1

PUMP TEST DATA



o - Data

+ - Type Curve

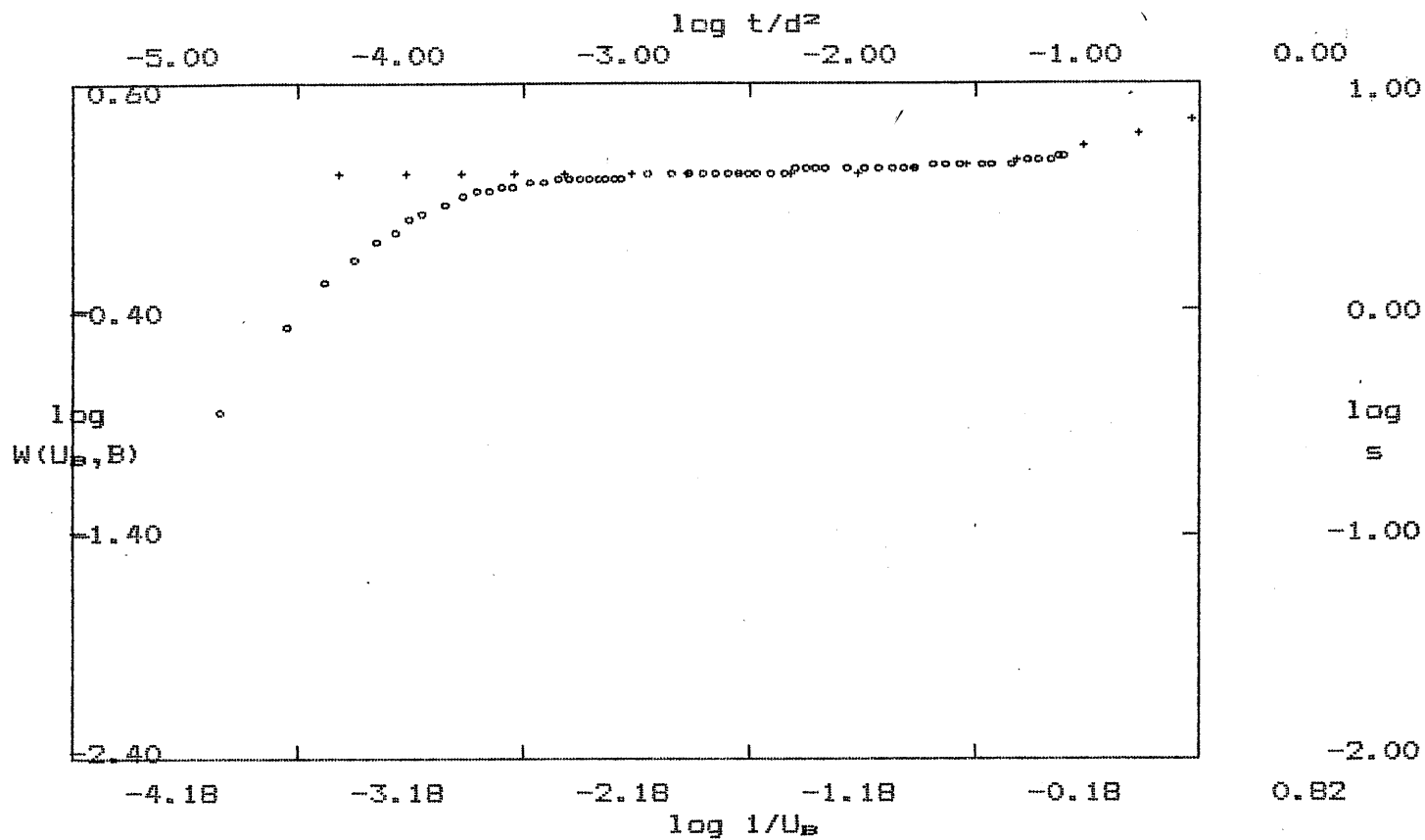
Unconfined Elastic: $\beta = 0.10$

SOLUTION

Transmissivity = $1.694E+00$ ft.²/min. - 18,246 gpd/ft
 Storativity = $3.792E-04$

Gopher MW1

PUMP TEST DATA



o - Data

+ - Type Curve

Unconfined Delayed: $\beta = 0.10$

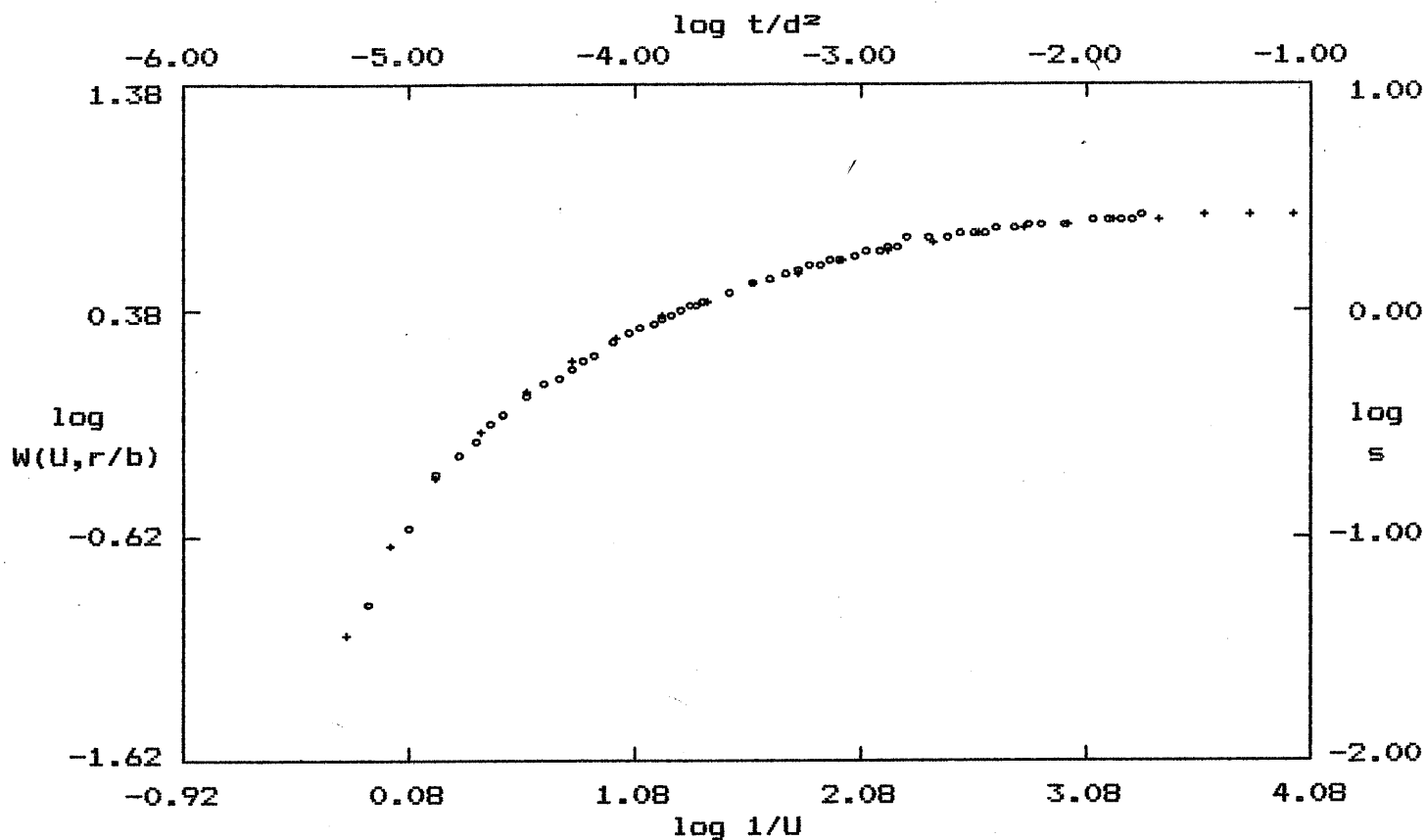
SOLUTION

Transmissivity = $1.694E+00$ ft.²/min. = 18,246 gpd/ft

Specific Yield = $2.564E-01$

Gopher Ridge MW1

PUMP TEST DATA



SOLUTION

Transmissivity = $1.021E+01$ ft.²/min. = 107,938 gpd/ft
 Storativity = $3.396E-04$

Eggen Ridge MW2