

2" deep wells 340' Total Depth
 300 ~~300~~' cased depth
 300' ~~300~~'-340' .20 slotted screen
shallow well (6") 10' Total depth
 5' cased depth
 5'-10' .20 slotted screen
 Production Well 340' total
 300 cased
 40 screened (.20)

OPTIMIZATION BY LEVENBERG-MARQUARDT MINIMIZATION ALGORITHM

ITER	FUNCTION	TRANSMISS	STORTIVTY	SPEC_LEAK
1	.169	.1013E+05	.2423E-04	.1400E-02
2	.561E-01	.1025E+05	.2427E-04	.3226E-03
3	.383E-02	.1026E+05	.2428E-04	.3372E-04
4	.371E-03	.1026E+05	.2428E-04	.4918E-06
5	.350E-03	.1026E+05	.2428E-04	.3709E-07
6	.347E-03	.1026E+05	.2428E-04	.1847E-08

TERMINATION DUE TO STEP SIZE CONVERGENCE

FINAL RESULTS

ITER	FUNCTION	TRANSMISS	STORTIVTY	SPEC_LEAK
6	.347E-03	.1026E+05	.2428E-04	.1847E-08

FRACTIONAL COMPONENTS OF FUNCTION VALUE

WELL #	1	2
	1.000	.0000

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

Alio D - well 10 (r=73')

$T = 76,745 \text{ gpd/ft}$

$S = 2.428 \times 10^{-5}$

$L = 1.847 \times 10^{-9}$

↳ very low - casing string effect?

SENSITIVITY ANALYSIS

TWO STANDARD DEVIATION CONFIDENCE INTERVALS

PARAMETER	VALUE	LOWER LIMIT	UPPER LIMIT
TRANSMISS	.1026E+05	0.1025E+05	0.1027E+05
STORTIVTY	.2428E-04	0.0000	0.2931E-03
SPEC_LEAK	*****	0.0000	0.1147E-02

TO CONTINUE ENTER "RETURN"

OPTIMIZATION BY LEVENBERG-MARQUARDT MINIMIZATION ALGORITHM

ITER	FUNCTION	TRANSMISS	STORTIVITY	SPEC_LEAK
1	.567E-04	9554.	.1555E-03	.2572E-05
2	.567E-04	9554.	.1555E-03	.2478E-05
3	.566E-04	9554.	.1555E-03	.2408E-05
4	.566E-04	9554.	.1556E-03	.2356E-05
5	.566E-04	9554.	.1556E-03	.2318E-05
6	.566E-04	9554.	.1556E-03	.2292E-05
7	.566E-04	9554.	.1556E-03	.2276E-05
8	.565E-04	9554.	.1556E-03	.2267E-05

TERMINATION DUE TO PARAMETER CONVERGENCE

FINAL RESULTS

ITER	FUNCTION	TRANSMISS	STORTIVITY	SPEC_LEAK
8	.565E-04	9554.	.1556E-03	.2267E-05

FRACTIONAL COMPONENTS OF FUNCTION VALUE

WELL #	1	2
	.0000	1.000

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

Alicia O - well 20 (r=197')

$T = 71,745$

$S = 1.556 \times 10^{-4}$

$L = 2.267 \times 10^{-6}$

SENSITIVITY ANALYSIS

TWO STANDARD DEVIATION CONFIDENCE INTERVALS

PARAMETER	VALUE	LOWER LIMIT	UPPER LIMIT
TRANSMISS	9554.	9516.	9592.
STORTIVITY	.1556E-03	0.0000	0.1784E-02
SPEC_LEAK	.2265E-05	0.0000	0.6037E-02

TO CONTINUE ENTER "RETURN"

OPTIMIZATION BY LEVENBERG-MARQUARDT MINIMIZATION ALGORITHM

ITER	FUNCTION	TRANSMISS	STORTIVTY	SPEC_LEAK
1	.634E-02	6014.	.4469E-03	.1934E-02
3	.634E-02	6013.	.4469E-03	.1937E-02

Alicio D - both wells

TERMINATION DUE TO PARAMETER CONVERGENCE

FINAL RESULTS

ITER	FUNCTION	TRANSMISS	STORTIVTY	SPEC_LEAK
5	.634E-02	6013.	.4469E-03	.1937E-02

$T = 44,977$ gal/ft

FRACTIONAL COMPONENTS OF FUNCTION VALUE

WELL #	1	2
	.5723	.4277

$S = 4.469 \times 10^{-4}$

$\frac{K'}{b} = 1.937 \times 10^{-2}$

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

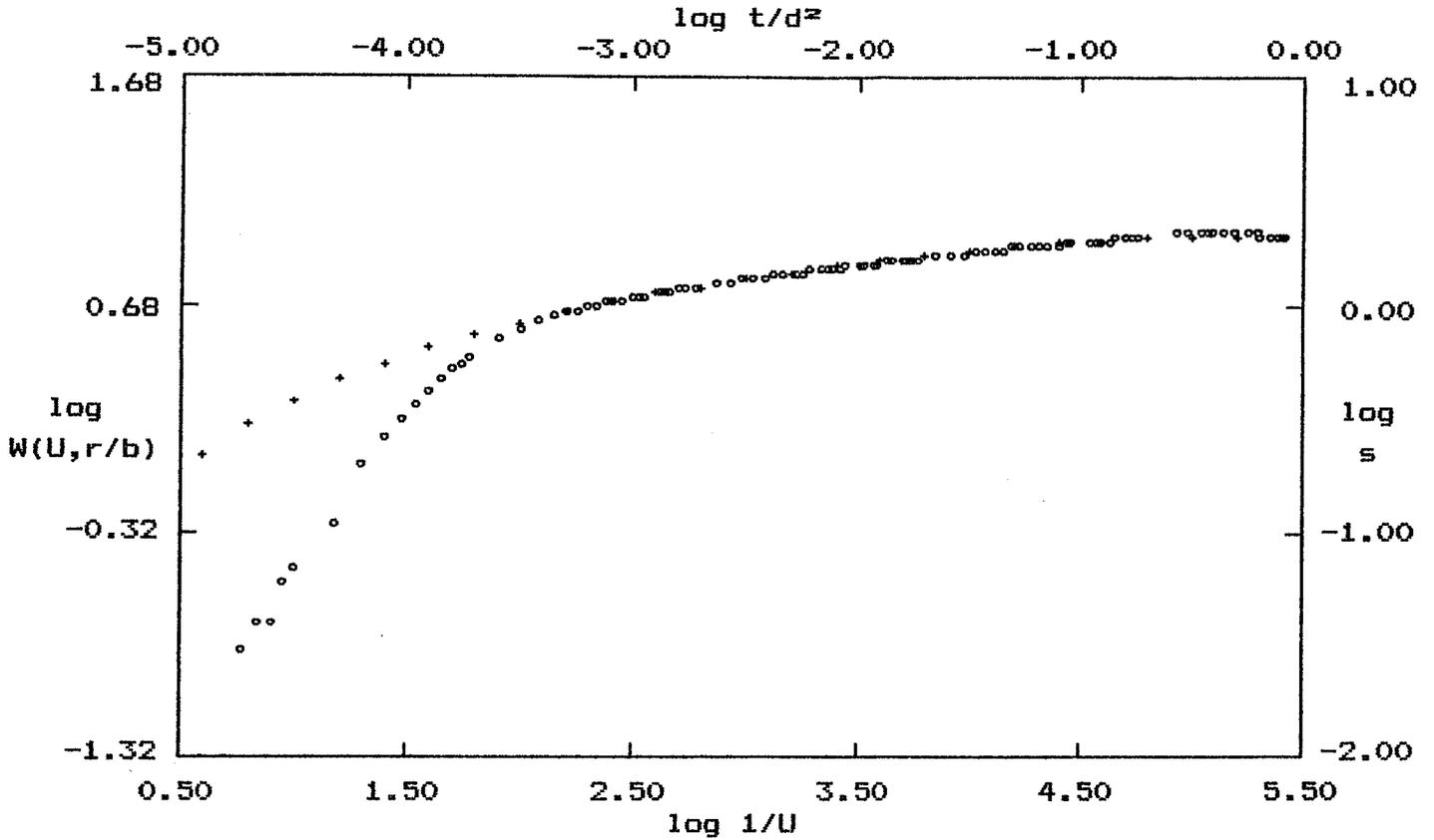
SENSITIVITY ANALYSIS

TWO STANDARD DEVIATION CONFIDENCE INTERVALS

PARAMETER	VALUE	LOWER LIMIT	UPPER LIMIT
TRANSMISS	6013.	5938.	6088.
STORTIVTY	.4469E-03	0.0000	0.3013E-02
SPEC_LEAK	.1938E-02	0.0000	0.1710E-01

TO CONTINUE ENTER "RETURN"

PUMP TEST DATA



o - Data

+ - Type Curve

Confined Leaky: $r/B = 0.01$

SOLUTION

Transmissivity = $5.754E+00$ ft.²/min.

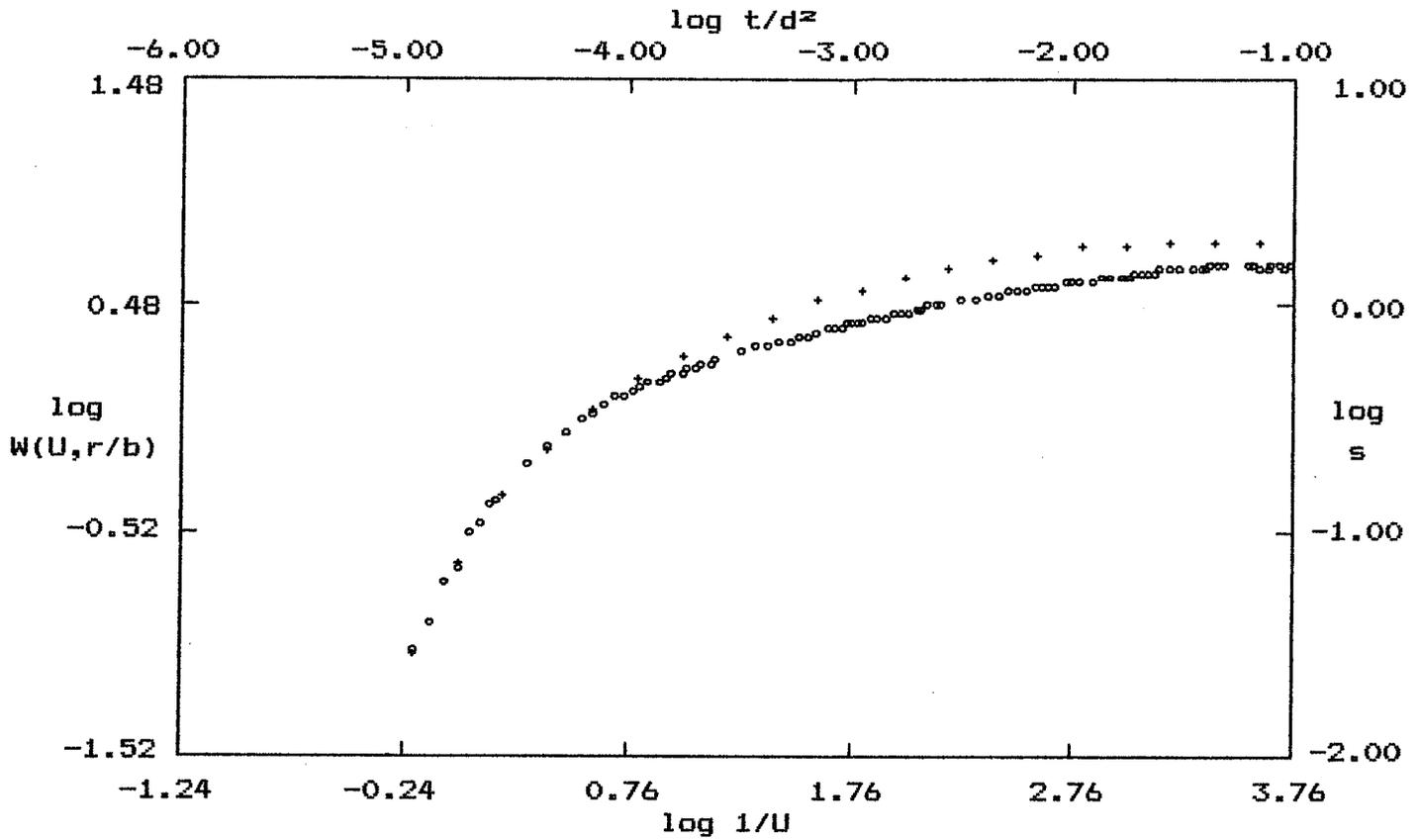
Storativity = $7.278E-05$

61,977 gpd/ft

Alico 0 10

no early time match due to casing storage effect

PUMP TEST DATA



o - Data

+ - Type Curve

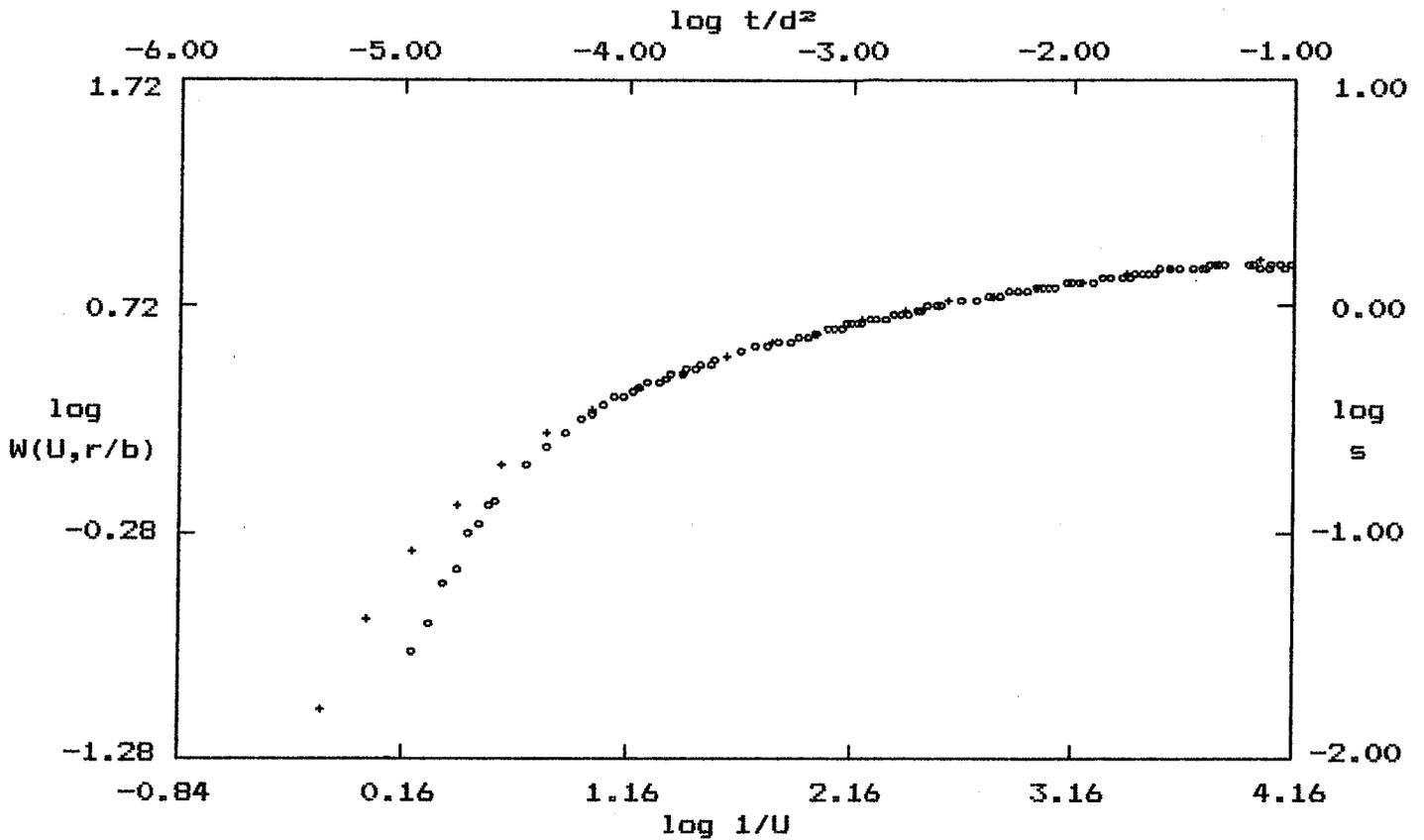
Confined Leaky: $r/B = 0.06$

SOLUTION

Transmissivity = $3.630E+00$ ft.²/min. = 39,099 gpd/ft
 Storativity = $2.523E-04$

Alice O 02
early match

PUMP TEST DATA



o - Data

+ - Type Curve

Confined Leaky: $r/B = 0.01$

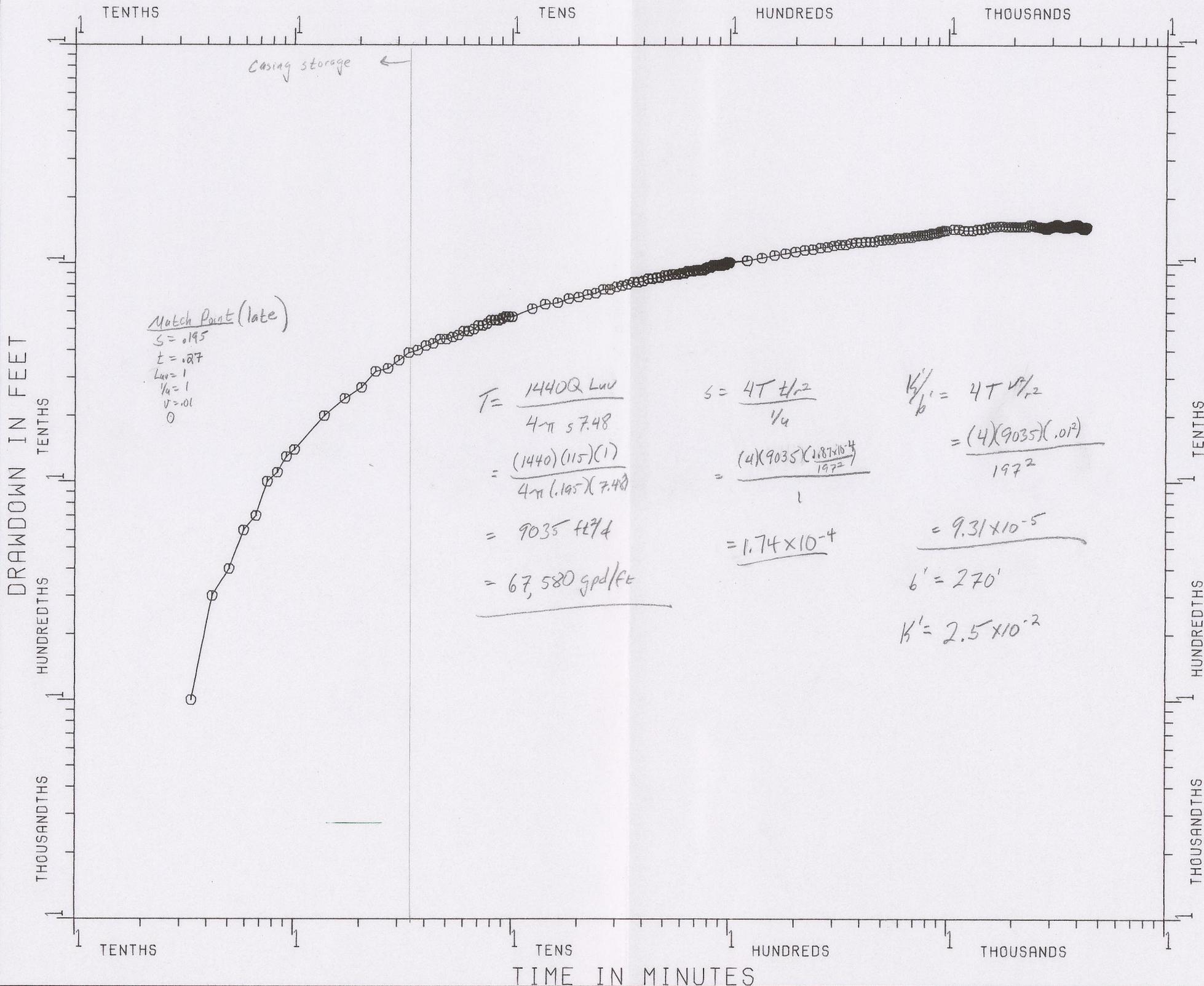
SOLUTION

Transmissivity = $6.309E+00$ ft.²/min. = *67,956 gpd/ft*
 Storativity = $1.746E-04$

Alicia D. 20
late match

OBSERVATION WELL: 2D

R=197.0 Q=115.0



ALICO D DRAWDOWN

ALICO D RECOVERY
 OBSERVATION WELL: 1D
 R= 73.0 Q=115.0

