

APPENDIX B

Slug Test Data

A Q T E S O L V R E S U L T S

Version 1.10

05/25/94

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TEST DESCRIPTION

Data set..... MW108C.INP
Data set title..... Slug Withdrawal Test Well MW108
Company..... ENSERCH
Project..... TEAD-S
Client..... USAEC
Location..... SWMU 5
Test date..... 12/04/93

Knowns and Constants:

No. of data points..... 662
Radius of well casing..... 0.167
Radius of well..... 0.417
Aquifer saturated thickness..... 100
Well screen length..... 10
Static height of water in well..... 18.6
Log(Re/Rw)..... 2.156
A, B, C..... 2.262, 0.363, 0.000

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ANALYTICAL METHOD

Bouwer-Rice (Unconfined Aquifer Slug Test)

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RESULTS FROM VISUAL CURVE MATCHING

VISUAL MATCH PARAMETER ESTIMATES

Estimate
K = 1.08191E-003
y0 = 3.48233E-001

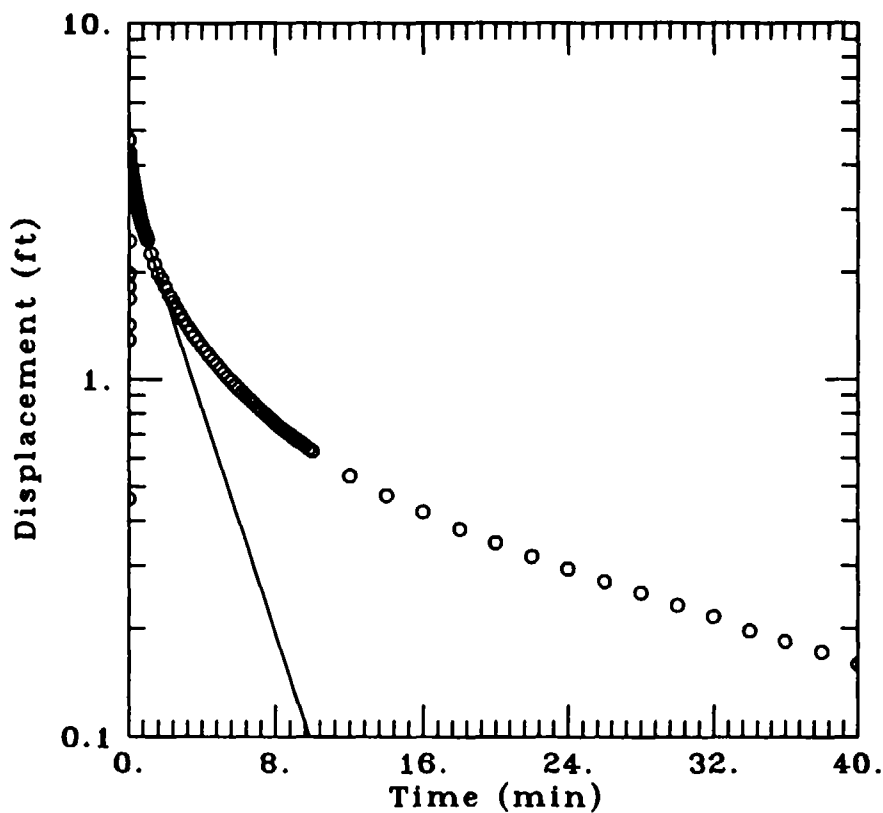
ENSERCH

Client: USAEC

Project No.: TEAD-S

Location: SWMU 5

Slug Withdrawal Test Well MW108



DATA SET:

MW108C.INP

05/25/94

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Bouwer-Rice

TEST DATE:

12/04/93

ESTIMATED PARAMETERS:

$K = 0.001082$ ft/min

$y_0 = 3.482$ ft

TEST DATA:

$H_0 = 4.696$ ft

$r_c = 0.167$ ft

$r_w = 0.417$ ft

$L = 10$ ft

$b = 100$ ft

$H = 18.6$ ft

A Q T E S O L V R E S U L T S

Version 1.10

05/25/94

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TEST DESCRIPTION

Data set..... MW109C.INP
Data set title..... Slug Withdrawal Test Well MW109
Company..... ENSERCH
Project..... TEAD-S
Client..... USAEC
Location..... SWMU 5
Test date..... 12/05/93

Knowns and Constants:

No. of data points..... 225
Radius of well casing..... 0.167
Radius of well..... 0.417
Aquifer saturated thickness..... 100
Well screen length..... 7.89
Static height of water in well..... 7.89
Log(Re/Rw)..... 1.723
A, B, C..... 2.121, 0.330, 0.000

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ANALYTICAL METHOD

Bouwer-Rice (Unconfined Aquifer Slug Test)

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RESULTS FROM VISUAL CURVE MATCHING

VISUAL MATCH PARAMETER ESTIMATES

Estimate
K = 7.29505E-003
y0 = 2.40436E-001

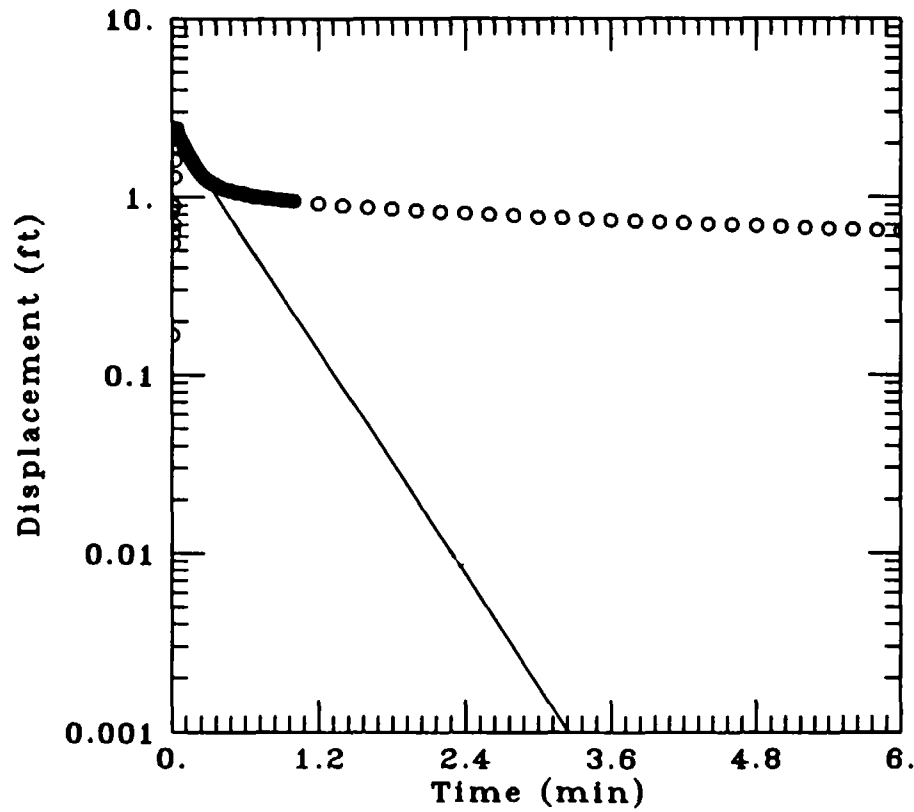
ENSERCH

Client: USAEC

Project No.: TEAD-S

Location: SWMU 5

Slug Withdrawal Test Well MW109



DATA SET:

MW109C.INP
05/25/94

AQUIFER TYPE:

Unconfined
SOLUTION METHOD:
Bower-Rice
TEST DATE:
12/05/93

ESTIMATED PARAMETERS:

$K = 0.007295$ ft/min
 $y_0 = 2.404$ ft

TEST DATA:

$H_0 = 2.43$ ft
 $r_c = 0.167$ ft
 $r_w = 0.417$ ft
 $L = 7.89$ ft
 $b = 100.$ ft
 $H = 7.89$ ft

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A Q T E S O L V R E S U L T S

Version 1.10

05/25/94

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TEST DESCRIPTION

Data set..... mw110c.inp
Data set title..... Slug Withdrawal Test Well MW110
Company..... ENSERCH
Project..... TEAD-S
Client..... USAEC
Location..... SWMU 5
Test date..... 12/04/93

Knowns and Constants:

No. of data points..... 214
Radius of well casing..... 0.167
Radius of well..... 0.417
Aquifer saturated thickness..... 100
Well screen length..... 10
Static height of water in well..... 11.32
Log(Re/Rw)..... 1.966
A, B, C..... 2.262, 0.363, 0.000

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ANALYTICAL METHOD

Bouwer-Rice (Unconfined Aquifer Slug Test)

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RESULTS FROM VISUAL CURVE MATCHING

VISUAL MATCH PARAMETER ESTIMATES

Estimate
K = 3.65585E-004
y0 = 1.54033E-001

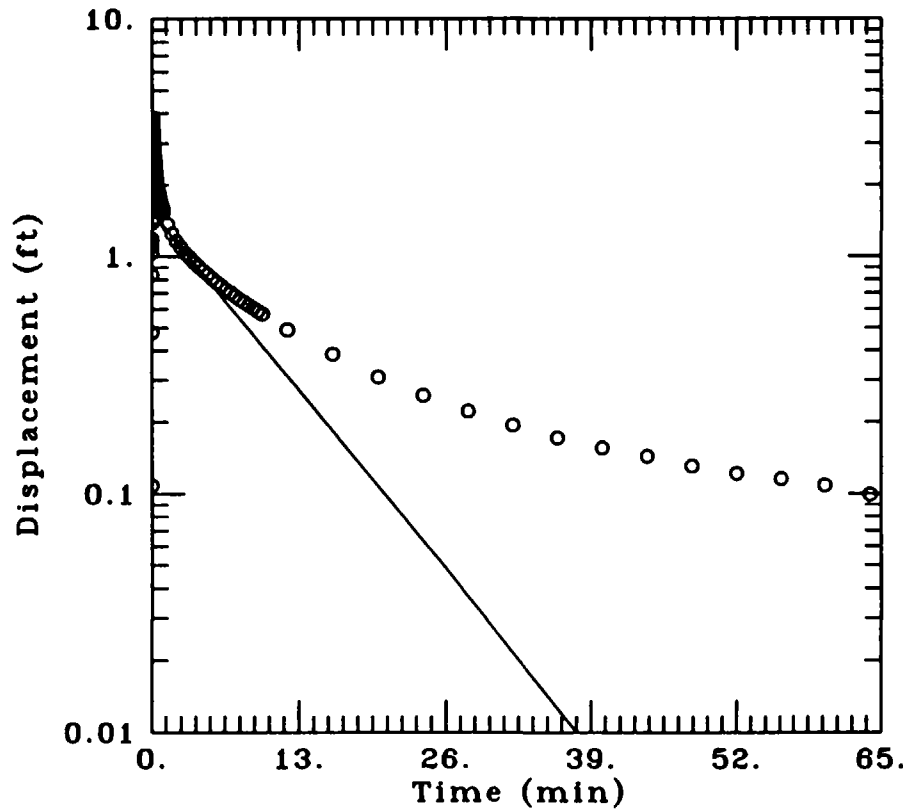
ENSERCH

Client: USAEC

Project No.: TEAD-S

Location: SWMU 5

Slug Withdrawal Test Well MW110



DATA SET:

mw110c.inp
05/25/94

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Bouwer-Rice

TEST DATE:

12/04/93

ESTIMATED PARAMETERS:

$K = 0.0003656$ ft/min
 $y_0 = 1.54$ ft

TEST DATA:

$H_0 = 3.823$ ft
 $r_c = 0.167$ ft
 $r_w = 0.417$ ft
 $L = 10.$ ft
 $b = 100.$ ft
 $H = 11.32$ ft

A Q T E S O L V R E S U L T S

Version 1.10

05/25/94

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TEST DESCRIPTION

Data set..... b:\inp\mw111c.inp
Data set title..... Slug Withdrawal Test Well MW111
Company..... ENSERCH
Project..... TEAD-S
Client..... USAEC
Location..... SWMU 9
Test date..... 12/04/93

Knowns and Constants:

No. of data points..... 193
Radius of well casing..... 0.167
Radius of well..... 0.417
Aquifer saturated thickness..... 100
Well screen length..... 7.06
Static height of water in well..... 7.06
Log(Re/Rw)..... 1.635
A, B, C..... 2.069, 0.315, 0.000

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ANALYTICAL METHOD

Bouwer-Rice (Unconfined Aquifer Slug Test)

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RESULTS FROM VISUAL CURVE MATCHING

VISUAL MATCH PARAMETER ESTIMATES

Estimate
K = 1.03451E-003
y0 = 1.09923E-001

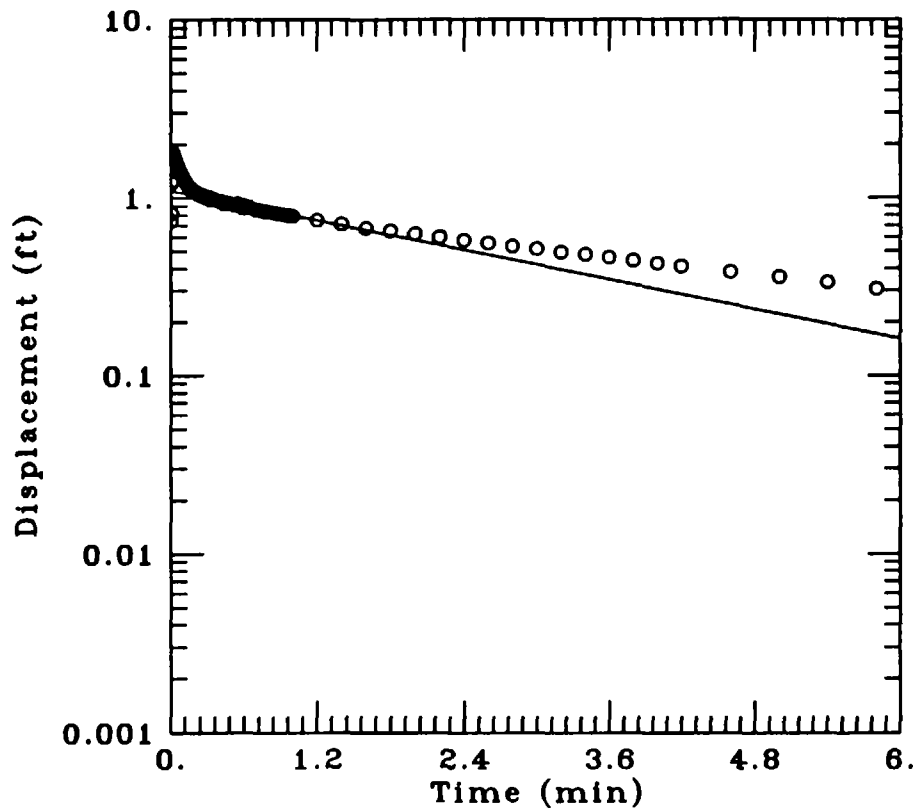
ENSERCH

Client: USAEC

Project No.: TEAD-S

Location: SWMU 9

Slug Withdrawal Test Well MW111



DATA SET:

b:\inp\mw111c.inp
05/25/94

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Bouwer-Rice

TEST DATE:

12/04/93

ESTIMATED PARAMETERS:

K = 0.001035 ft/min
y0 = 1.099 ft

TEST DATA:

H0 = 1.812 ft
rc = 0.167 ft
rw = 0.417 ft
L = 7.06 ft
b = 100. ft
H = 7.06 ft

A Q T E S O L V R E S U L T S

Version 1.10

05/25/94

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TEST DESCRIPTION

Data set..... mw112c.inp
Data set title..... Slug Withdrawal Test Well MW112
Company..... ENSERCH
Project..... TEAD-S
Client..... USAEC
Location..... SWMU 9
Test date..... 12/03/93

Knowns and Constants:

No. of data points..... 635
Radius of well casing..... 0.167
Radius of well..... 0.417
Aquifer saturated thickness..... 100
Well screen length..... 5.21
Static height of water in well..... 5.21
Log(Re/Rw)..... 1.399
A, B, C..... 1.961, 0.282, 0.000

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ANALYTICAL METHOD

Bouwer-Rice (Unconfined Aquifer Slug Test)

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RESULTS FROM VISUAL CURVE MATCHING

VISUAL MATCH PARAMETER ESTIMATES

Estimate
K = 4.59132E-004
y0 = 1.09847E-001

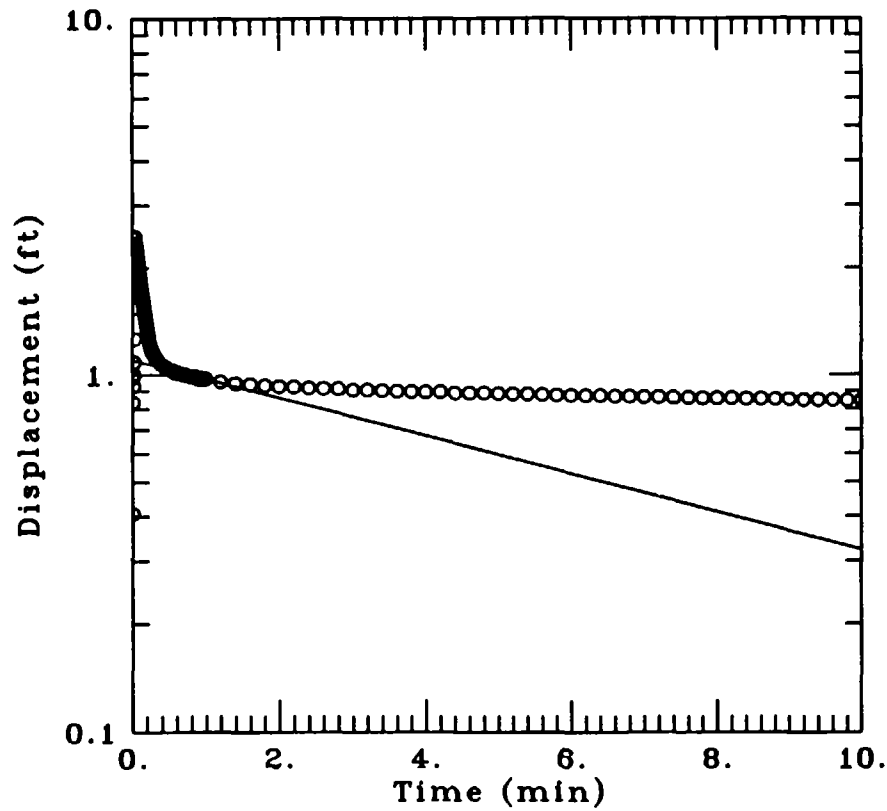
ENSERCH

Client: USAEC

Project No.: TEAD-S

Location: SWMU 9

Slug Withdrawal Test Well MW112



DATA SET:

mw112c.inp
05/25/94

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Bouwer-Rice

TEST DATE:

12/03/93

ESTIMATED PARAMETERS:

$K = 0.0004591$ ft/min
 $y_0 = 1.098$ ft

TEST DATA:

$H_0 = 2.434$ ft
 $r_c = 0.167$ ft
 $r_w = 0.417$ ft
 $L = 5.21$ ft
 $b = 100$ ft
 $H = 5.21$ ft

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