Slug Test Data Forms

Appendix G
Summary Table of Input Values for Hydraulic Conductivity Test Analyses
Turkey Point COL Project
MACTEC Project No. 6468-07-1950

WELL ID	Test Date: Background	Test Date: Falling Head	Test Date: Rising Head	Test Method	Borehole Depth (ft bgs[1])	Static H2O (ft TOC[2])	Riser (ft ags)	Static H2O (ft bgs)	Water Column Height (feet)	Formation Depth	Borehole Length vs Formation Extent	Saturated Thickness[3] (feet, bgs)	Maximum Displacement (feet): Falling Head	Maximum Displacement (feet): Rising Head	Top of Well Screen[4] (feet bgs)	Well Screen Length[4] (feet)	Radius of Well Casing (feet)	Radius of Screen (feet)	Radius of Probe (feet)	Probe Serial Number	Notes
OW-606 U	5/20/2008		5/20/2008	pneumatic	30.17	3.48	3.2	0.28	29.89	24.00	6.17	29.89		2.792	15	15.17	0.083	0.30	0.03	118478	
			5/20/2008	pneumatic	30.17	3.48	3.2	0.28	29.89	24.00	6.17	29.89		3.394						118478	Test 2
OW-606 L	5/18/2008	5/18/2008	5/18/2008	manual slug	109.00	3.24	2.8	0.44	108.56	116.00	-7.00	92	1.013	1.817	92.8	17.2	0.083	0.29	0.03	118478	
	5/20/2008		5/20/2008	pneumatic	109.00	3.07	2.8	0.27	108.73	116.00	-7.00	92		4.388						118478	
OW-621 U	5/20/2008		5/20/2008	pneumatic	30.00	5.74	3.3	2.44	27.56	26.00	4.00	27.56		10.561	14.4	15.6	0.083	0.30	0.03	118478	
OW-621 L	5/17/2008	5/17/2008	5/17/2008	manual slug	110.00	4.13	3.0	1.13	108.87	114.50	-4.50	88.5	19.286	3.011	95	15	0.083	0.30	0.03	103345	
			5/17/2008	manual slug	110.00	4.13	3.0	1.13	108.87	114.50	-4.50	88.5		2.103						103345	Test 2
	5/20/2008		5/20/2008	pneumatic	110.00	4.71	3.0	1.71	108.29	114.50	-4.50	88.5		12.053						118478	
OW-636 U	5/21/2008		5/21/2008	pneumatic	29.80	4.35	3.4	0.95	28.85	26.00	3.80	28.85		9.553	12.8	17	0.083	0.25	0.03	118478	
			5/21/2008	pneumatic	29.80	4.35	3.4	0.95	28.85	26.00	3.80	28.85		7.909						118478	
OW-636 L	5/21/2008		5/21/2008	pneumatic	111.00	2.74	3.4	-0.66	111.66	114.00	-3.00	88		8.321	93.5	17.5	0.083	0.25	0.03	118478	
			5/21/2008	pneumatic	111.00	2.74	3.4	-0.66	111.66	114.00	-3.00	88		5.913						118478	Test 2
OW-706 U	5/16/2008	5/16/2008	5/16/2008	manual slug	29.00	3.74	3.2	0.54	28.46	31.20	-2.20	30.66	0.941	0.96	13.4	15.6	0.083	0.25	0.03	103345	
	5/20/2008		5/20/2008	pneumatic	29.00	3.74	3.2	0.54	28.46	31.20	-2.20	30.66		4.189						118478	Test 2
OW-706 L	5/16/2008	5/16/2008	5/16/2008	manual slug	112.00	1.50	3.2	-1.70	113.70	114.00	-2.00	82.8	1.19	2.693	96.9	15.1	0.083	0.25	0.03	103345	
OW-721 U	5/15/2008	5/15/2008	5/15/2008	manual slug	26.00	4.35	3.1	1.25	24.75	24.00	2.00	24.75	3.338	1.444	9.9	16.1	0.083	0.25	0.03	103345	
	5/20/2008		5/20/2008	pneumatic	26.00	4.73	3.1	1.63	24.37	24.00	2.00	24.37		10.884						118478	
OW-721 L	5/15/2008	5/15/2008	5/15/2008	manual slug	109.00	2.17	3.2	-1.03	110.03	114.00	-5.00	90	2.451	5.904	92	17	0.083	0.25	0.03	103345	
	5/20/2008		5/20/2008	pneumatic	109.00	1.97	3.2	-1.23	110.23	114.00	-5.00	90		9.341						118478	
OW-735 U	5/15/2008	5/15/2008	5/15/2008	manual slug	28.00	4.85	3.3	1.55	26.45	26.00	2.00	26.45	0.553	1.519	12	16	0.083	0.25	0.03	103345	
	5/20/2008		5/20/2008	pneumatic	28.00	4.95	3.3	1.65	26.35	26.00	2.00	26.35		10.051						118478	
OW-735L	5/15/2008	5/15/2008	5/15/2008	manual slug	110.00	2.97	3.4	-0.43	110.43	113.00	-3.00	87	3.004	5.779	92.3	17.7	0.083	0.25	0.03	103345	
OW-802 U	5/20/2008	6/6/2008	5/20/2008	pneumatic	27.00	4.60	3.4	1.20	25.80	27.00	0.00	25.80		7.799	10	17	0.083	0.25	0.03	118478	
OW-802 L	5/20/2008	6/6/2008	5/20/2008	pneumatic	110.00	3.06	3.3	-0.24	110.24	115.00	-5.00	88		12.796	93	17	0.083	0.21	0.03	118478	
OW-805 U	6/6/2008	6/6/2008	6/6/2008	pneumatic	30.00	3.00	2.8	0.20	29.80	32.50	-2.50	32.30		3.886	13	17	0.083	0.25	0.03	118478	
OW-805 L	6/6/2008	6/6/2008	6/6/2008	pneumatic	97.00	3.19	3.7	-0.51	97.51	100.00	-3.00	67.5		10.511	80	17	0.083	0.21	0.03	118478	
OW-809 U	5/15/2008	5/15/2008	5/15/2008	manual slug	27.00	4.68	3.2	1.48	25.52	25.00	2.00	25.52	6.358	3.175	12.6	14.4	0.083	0.25	0.03	118478	
	5/20/2008	5/20/2008	5/20/2008	pneumatic	27.00	4.72	3.2	1.52	25.48	25.00	2.00	25.48		11.016						118478	
OW-809 L	5/15/2008	5/15/2008	5/15/2008	manual slug	110.00	3.26	3.3	-0.04	110.04	113.00	-3.00	88	11.287	2.64	91	19	0.083	0.25	0.03	103345	
OW-812 U	5/20/2008		5/20/2008	pneumatic	27.00	4.55	3.0	1.55	25.45	27.00	0.00	25.45		11.684	11	16	0.083	0.25	0.03	118478	
OW-812 L	5/20/2008		5/20/2008	pneumatic	109.00	3.01	3.3	-0.29	109.29	113.00	-4.00	86		10.477	94	15	0.083	0.25	0.03	118478	

Note:

Anisotropy ratio (Kv/Kh) is assumed to be 1

1 Measured in feet below ground surface (bgs).

2 Measured in feet below the top of the well casing (TOC).

3 Saturated thickness values determined as:

1) water column height for all U wells that fully penetrate the Miami Formation
2) Water column height plus the depth from the bottom of the borehole to the base of the Miami Formation for all U wells that do not fully penetrate the Miami Formation
3) Thickness of Thompson Formation for all L wells

4 Well screen dimensions based on direction from Bechtel to use borehole annulus

Prepared by: [illegible] Date: 10-10-08

Checked by: [illegible] Date: 6-2-08

MACTEC Engineering and Consulting, Inc.
Raleigh, NC

Checked by: CHB Date: 6-20-08

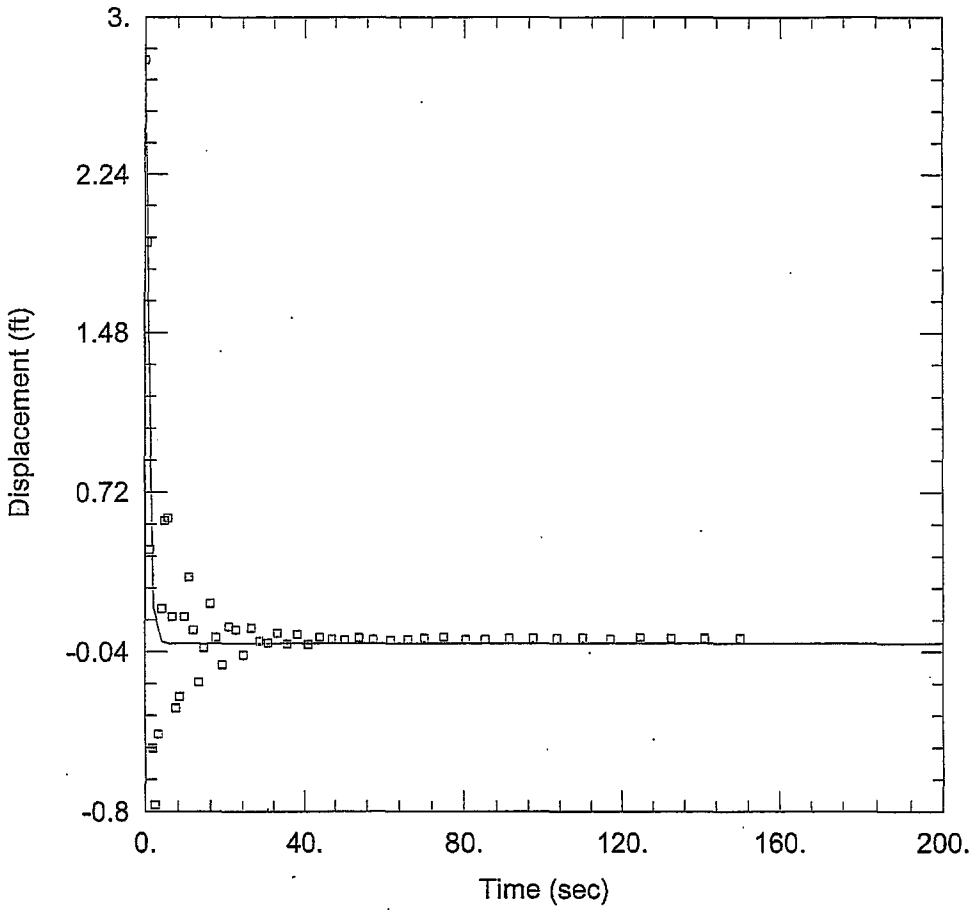
MACTEC

SLUG TEST REPORT

Project Name: TPCOL	Project Number: 6468-07-1950	Page 1 of 1	
Client: Bechtel	Contractor: MACTEC		
Location: OW-606U	MACTEC Rep: Kim Charles-Smith	Date: 05/20/08	
UNITS			
Length	Feet		
Time	Minutes		
Well Data	Final Stickup = 2.97' From gs.		
Static Water Level	3.48' feet From TOC		
Total Well Depth	31.91' feet From TOC		
Static Water Column Height (H)	feet		
	Background	Falling Head	Rising Head
Observed Initial Displacement (H_0)	NA		
Saturated Thickness (b)	feet		
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1		
Depth to Top of Well Screen (d)			
Length of Well Screen (L)	10' feet		
Radius of Well Casing (rc)	0.083 feet		
Radius of Screen (rw)	0.083 feet		
Radius of Probe (req)			
Radius of Boring (rsk) Skin Effect	0.083 feet		
	mini Troll Transducer probe Calibrated 4/29/08, exp 4/29/09		
Probe Serial Number	SN: 118478 level Troll® 700		
	Winsitu		
Slug Data			
Length	used pneumatic slug to perform test.		
weight			
Diameter			
Slug Test File	Background	Falling	Rising
File Name	OW-606UBG	NA	OW-606UR
Start Time	11:49:55		12:01:33
End Time	11:54:59		12:04:17
Notes	~~OW-606UR~~		
	~~12:06:45~~		
	~~12:07:47~~		

Rev 0

Prepared by: EAB Date: 6-20-08
Checked by: [illegible] Date: 6-20-08



OW-606 U RISING HEAD 5/20/08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-606 U
Test Date: 5-20-08

AQUIFER DATA

Saturated Thickness: 29.89 ft

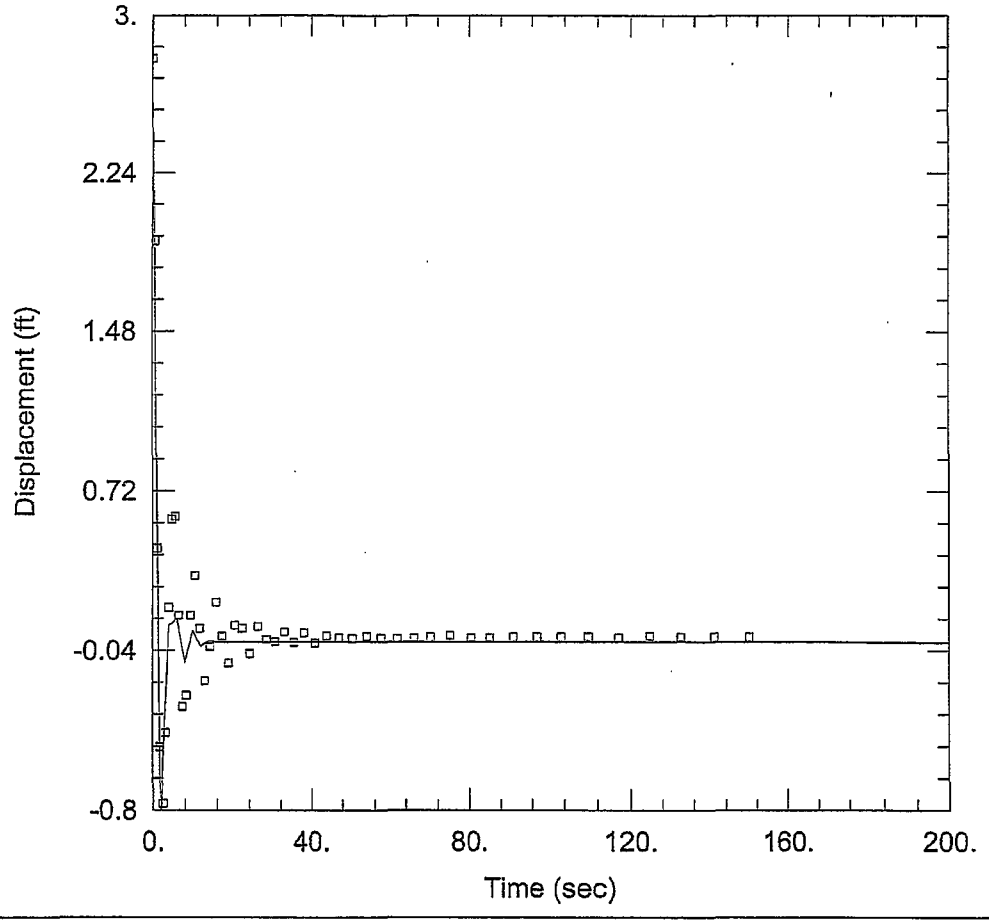
WELL DATA (OW-606 U)

Initial Displacement: 2.792 ft
Total Well Penetration Depth: 30.17 ft
Casing Radius: 0.083 ft
Static Water Column Height: 29.89 ft
Screen Length: 15.17 ft
Well Radius: 0.3 ft

SOLUTION

Aquifer Model: Unconfined
Kr = 97.98 ft/day
Kz/Kr = 1.
Solution Method: KGS Model
Ss = 4.167E-12 ft^{-1}

Prepared by: CHB Date: 6-20-08
Checked by: WSL Date: 6-20-08



OW-606 U RISING HEAD 5/20/08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-606 U
Test Date: 5-20-08

AQUIFER DATA

Saturated Thickness: 29.89 ft
Anisotropy Ratio (Kz/Kr): 1.

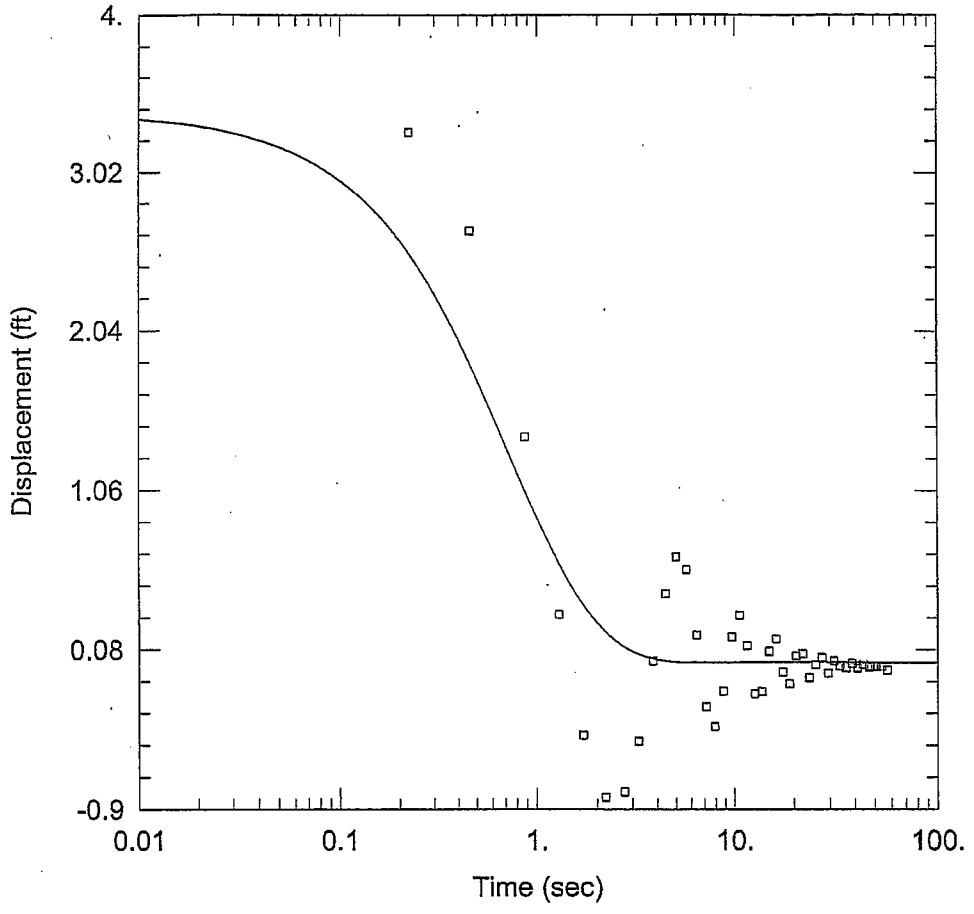
WELL DATA (OW-606 U)

Initial Displacement: 2.792 ft
Total Well Penetration Depth: 30.17 ft
Casing Radius: 0.083 ft
Static Water Column Height: 29.89 ft
Screen Length: 15.17 ft
Well Radius: 0.3 ft

SOLUTION

Aquifer Model: Unconfined
K = 134.8 ft/day
Solution Method: Springer-Gelhar
Le = 17.69 ft

Prepared by: CHB Date: 6-20-08
Checked by: MG Date: 6-20-08



OW-606 U RISING HEAD 5/20/08 TEST 2

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-606 U
Test Date: 5-20-08

AQUIFER DATA

Saturated Thickness: 29.89 ft

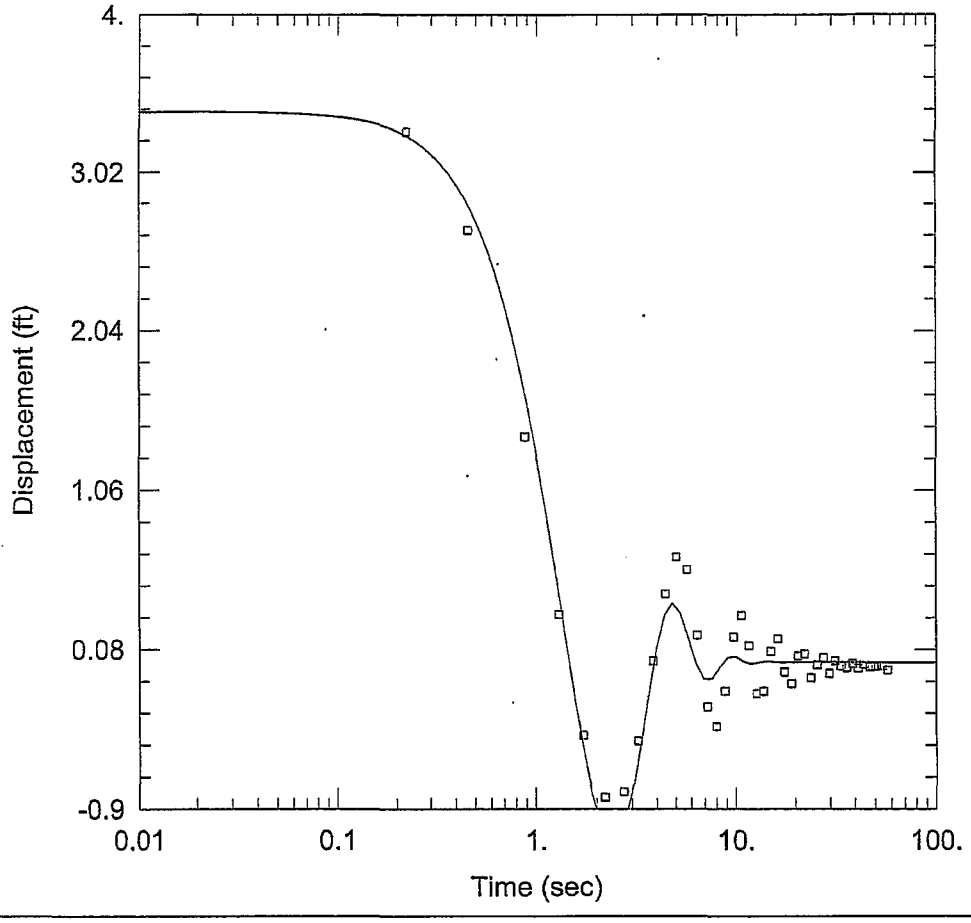
WELL DATA (OW-606 U)

Initial Displacement: 3.394 ft
Total Well Penetration Depth: 30.17 ft
Casing Radius: 0.083 ft
Static Water Column Height: 29.89 ft
Screen Length: 15.17 ft
Well Radius: 0.3 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model
Kr = 92.02 ft/day
Kz/Kr = 1.
Ss = 4.167E-12 ft^{-1}

Prepared by: CHB Date: 6-20-08
Checked by: [illegible] Date: 6-20-08



OW-606 U RISING HEAD 5/20/08 TEST 2

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-606 U
Test Date: 5-20-08

AQUIFER DATA

Saturated Thickness: 29.89 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (OW-606 U)

Initial Displacement: 3.394 ft
Total Well Penetration Depth: 30.17 ft
Casing Radius: 0.083 ft
Static Water Column Height: 29.89 ft
Screen Length: 15.17 ft
Well Radius: 0.3 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 123.1 ft/day
Le = 16.66 ft

Checked by: CHB Date: 6-30-08

MACTEC

SLUG TEST REPORT

Project Name: TPCL	Project Number:	Page [ ] of [ ]	
Client: Bechtel	Contractor: MACTEC		
Location: OW-606L	MACTEC Rep: Kim Clarke-Smith	Date: 05/18/08	
UNITS			
Length	Feet		
Time	Minutes		
Well Data	Final Stickup = 3.14' above g.s. Kcs 5-18-08		
Static Water Level	3.24' feet From TOC		
Total Well Depth	111.31' feet From TOC		
Static Water Column Height (H)	108.27' feet		

	Background	Falling Head	Rising Head
Observed Initial Displacement (H_0)	NA		

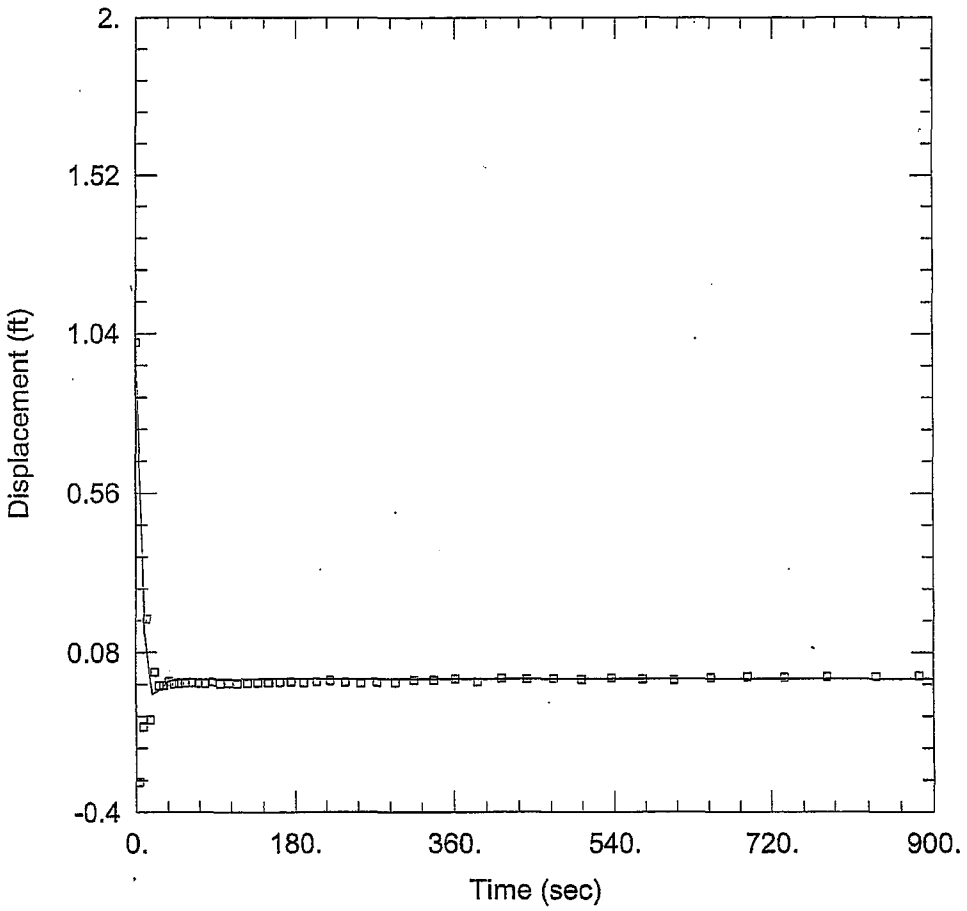
Saturated Thickness (b)	feet
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1
Depth to Top of Well Screen (d)	
Length of Well Screen (L)	10' feet
Radius of Well Casing (rc)	0.088 feet
Radius of Screen (rw)	0.083 feet
Radius of Probe (rep)	
Radius of Boring (rsk) Skin Effect	0.083 feet
	mini Troll Transducer calibrated 4/24/08, Exp. 4/29/09.
Probe Serial Number	
Sn: 103345	
Slug Data Slug #2	
Length	65.438 inches
weight	8.811 lbs.
Diameter	1.162 inches

Slug Test File	Background	Falling	Rising
File Name	OW-606LBG	OW-606LF	OW-606LR
Start Time	08:13:29	08:31:14	08:48:16
End Time	08:21:54	08:45:20	09:06:04

Notes: Extended top of casing to 5.16' above g.s. to run tests.

Rev 0

Prepared by: CHS Date: 6-20-08
Checked by: WH Date: 6-20-08



OW-606 L FALLING HEAD TEST 5-18-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-606 L
Test Date: 5-18-08

AQUIFER DATA

Saturated Thickness: 92. ft
Anisotropy Ratio (Kz/Kr): 1.

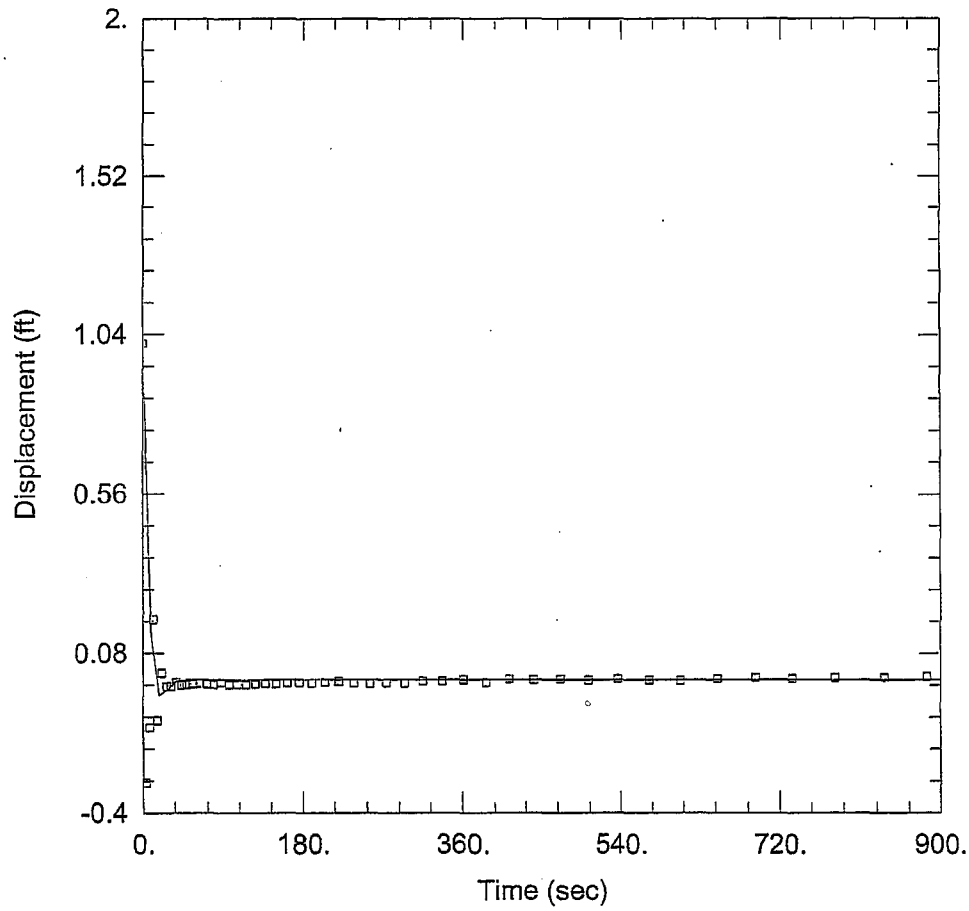
WELL DATA (OW-606 L)

Initial Displacement: 1.013 ft
Total Well Penetration Depth: 109. ft
Casing Radius: 0.083 ft
Static Water Column Height: 108.6 ft
Screen Length: 16.2 ft
Well Radius: 0.29 ft

SOLUTION

Aquifer Model: Confined
K = 119.9 ft/day
Solution Method: Butler
Le = 86.28 ft

Prepared by: CHS Date: 6-20-08
Checked by: WSC Date: 6-20-08



OW-606 L FALLING HEAD TEST 5-18-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-606 L
Test Date: 5-18-08

AQUIFER DATA

Saturated Thickness: 92. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (OW-606 L)

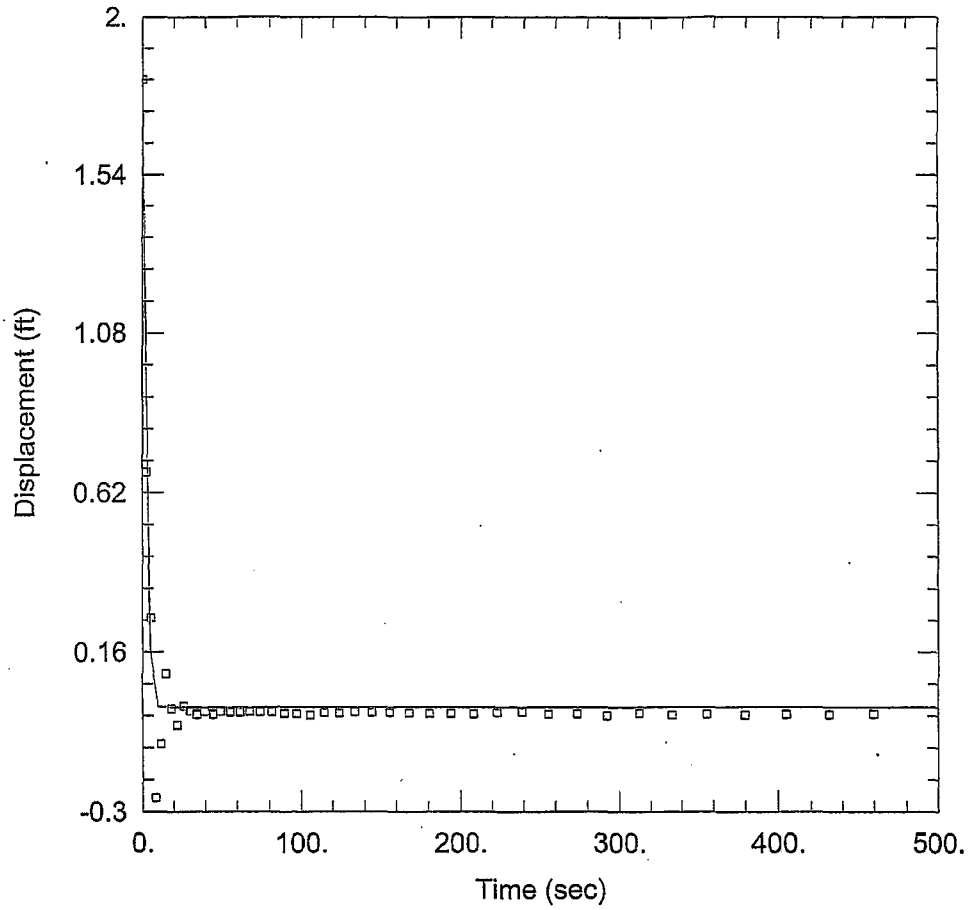
Initial Displacement: 1.013 ft
Total Well Penetration Depth: 109. ft
Casing Radius: 0.083 ft
Static Water Column Height: 108.6 ft
Screen Length: 16.2 ft
Well Radius: 0.29 ft

SOLUTION

Aquifer Model: Confined
Solution Method: McElwee-Zenner

K = 117.8 ft/day
A = 0.
ß = -22.15 ft
v(0) = 0. ft/day

Prepared by: CHB Date: 6-20-08
Checked by: [illegible] Date: 6-[illegible]-08



OW-606 L RISING HEAD TEST 5-18-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-606 L
Test Date: 5-18-08

AQUIFER DATA

Saturated Thickness: 92. ft
Anisotropy Ratio (Kz/Kr): 1.

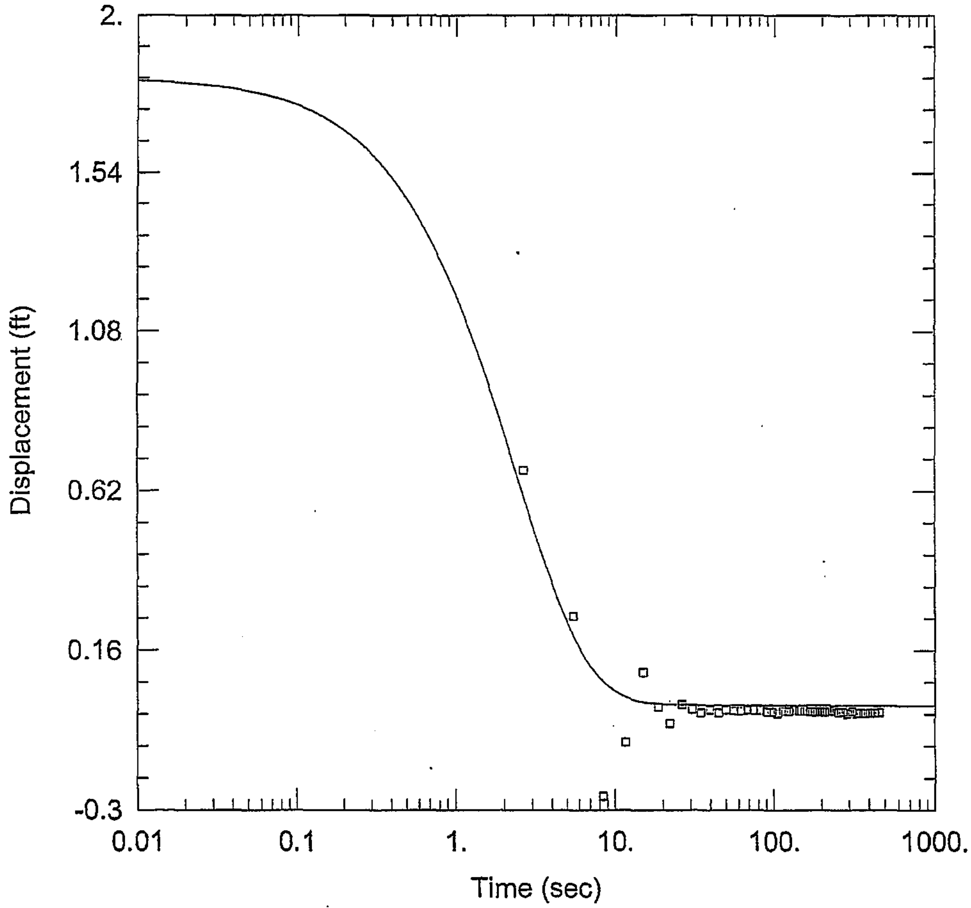
WELL DATA (OW-606 L)

Initial Displacement: 1.817 ft
Total Well Penetration Depth: 109. ft
Casing Radius: 0.083 ft
Static Water Column Height: 108.6 ft
Screen Length: 16.2 ft
Well Radius: 0.29 ft

SOLUTION

Aquifer Model: Confined
K = 30.16 ft/day
Solution Method: Butler
Le = 58.94 ft

Prepared by: CHB Date: 6-20-08
Checked by: [illegible] Date: 6-26-08



OW-606 L RISING HEAD TEST 5-18-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-606 L
Test Date: 5-18-08

AQUIFER DATA

Saturated Thickness: 92. ft

WELL DATA (OW-606 L)

Initial Displacement: 1.817 ft
Total Well Penetration Depth: 109. ft
Casing Radius: 0.083 ft

Static Water Column Height: 108.6 ft
Screen Length: 16.2 ft
Well Radius: 0.29 ft

SOLUTION

Aquifer Model: Confined

Kr = 35.04 ft/day
Kz/Kr = 1.

Solution Method: KGS Model

Ss = 1.087E-12 ft^{-1}

Checked by: CHB Date: 6-20-08

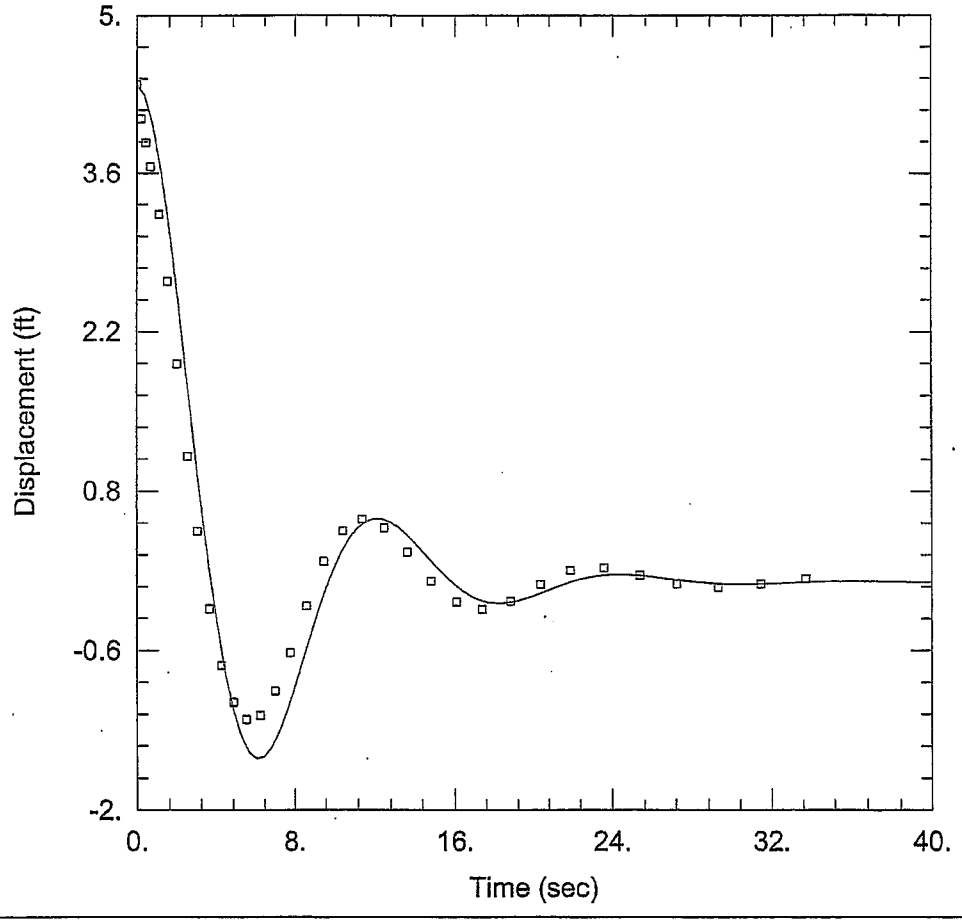
MACTEC

SLUG TEST REPORT

Project Name: TPCOL	Project Number: 6468-07-1950	Page 1 of 1	
Client: Bechtel	Contractor: MACTEC		
Location: OW-606L	MACTEC Rep: Kim Charles-Smith	Date: 05/20/08	
UNITS			
Length	Feet		
Time	Minutes		
Well Data	Final Stickup = 3.14'		
Static Water Level	3.07' feet		
Total Well Depth	111.31' feet		
Static Water Column Height (H)	feet		
	Background	Falling Head	Rising Head
Observed Initial Displacement (H_0)	NA		
Saturated Thickness (b)	feet		
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1		
Depth to Top of Well Screen (d)			
Length of Well Screen (L)	10' feet		
Radius of Well Casing (rc)	0.083 feet		
Radius of Screen (rw)	0.083 feet		
Radius of Probe (rep)			
Radius of Boring (rsk) Skin Effect	0.083 feet		
Probe Serial Number	Mini Troll Transducer probe calibrated 4/29/08, Exp 4/29/09 Sn: 118478 level Troll @ 700 Winsitu		
Slug Data	USED pneumatic Slug to perform test.		
Length			
weight			
Diameter			
Slug Test File	Background	Falling	Rising
File Name	OW-606LBG	NA	OW-606LR
Start Time	12:16:04		12:25:30
End Time	12:17:59		12:26:09
Notes			

Rev 0

Prepared by: CHP Date: 6-20-08
Checked by: [illegible] Date: 6-20-08



OW-606 L RISING HEAD TEST 5-20-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-606 L
Test Date: 5-18-08

AQUIFER DATA

Saturated Thickness: 92. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (OW-606 L)

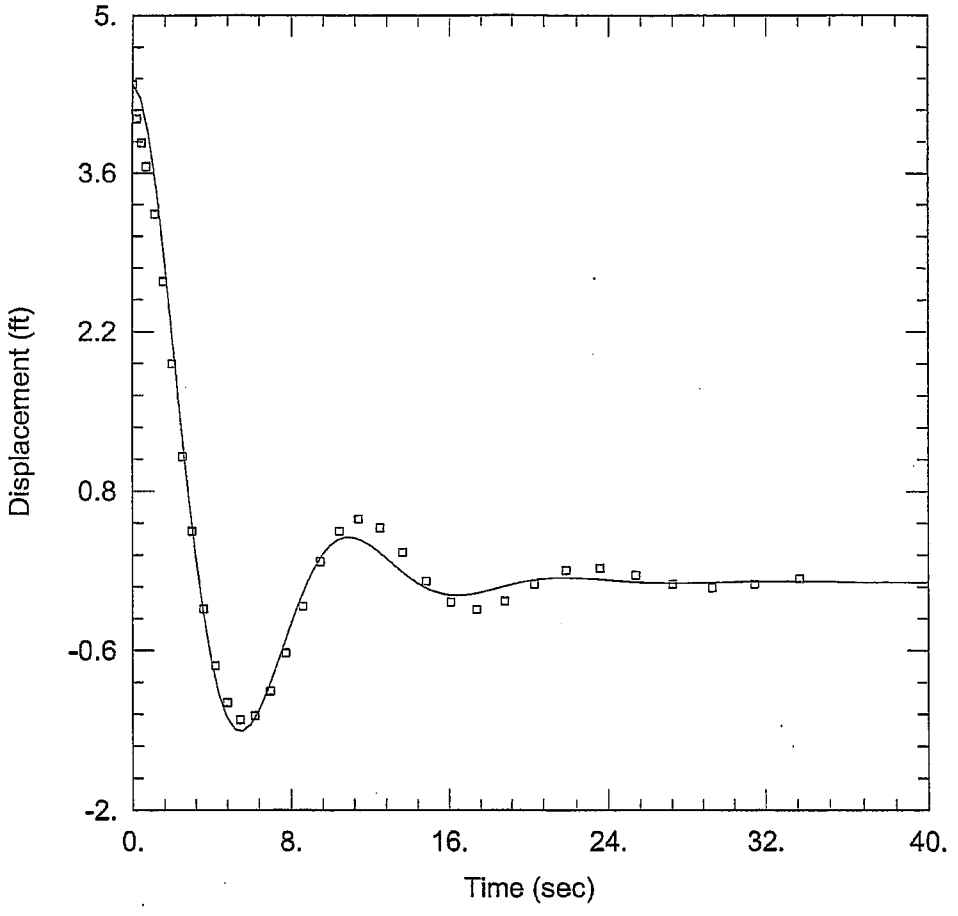
Initial Displacement: 4.388 ft
Total Well Penetration Depth: 109. ft
Casing Radius: 0.083 ft
Static Water Column Height: 108.7 ft
Screen Length: 16.2 ft
Well Radius: 0.29 ft

SOLUTION

Aquifer Model: Confined
Solution Method: McElwee-Zenner

K = 66.13 ft/day
A = 0.
ß = 2.736E-317 ft
v(0)= 0. ft/day

Prepared by: CHB Date: 6-20-08
Checked by: WSB Date: 6-20-08



OW-606 L RISING HEAD TEST 5-20-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-606 L
Test Date: 5-18-08

AQUIFER DATA

Saturated Thickness: 92. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (OW-606 L)

Initial Displacement: 4.388 ft
Total Well Penetration Depth: 109. ft
Casing Radius: 0.083 ft
Static Water Column Height: 108.7 ft
Screen Length: 16.2 ft
Well Radius: 0.29 ft

SOLUTION

Aquifer Model: Confined
K = 67.4 ft/day
Solution Method: Butler
Le = 85.16 ft

Checked by: CHB Date: 6-20-08

MACTEC

SLUG TEST REPORT

Project Name: TPCOL	6468-07-1950 Project Number:	Page 1 of 1	
Client: Bechtel	Contractor: MACTEC		
Location: OW-621U	MACTEC Rep: Kim Charles-Smith	Date: 05/20/08	
UNITS			
Length	Feet		
Time	Minutes		
Well Data	Final Stickup = 3.77' from gs.		
Static Water Level	5.74' feet From TOC		
Total Well Depth	32.36' feet From TOC		
Static Water Column Height (H)	feet		

	Background	Falling Head	Rising Head
Observed Initial Displacement (H_0)	NA		

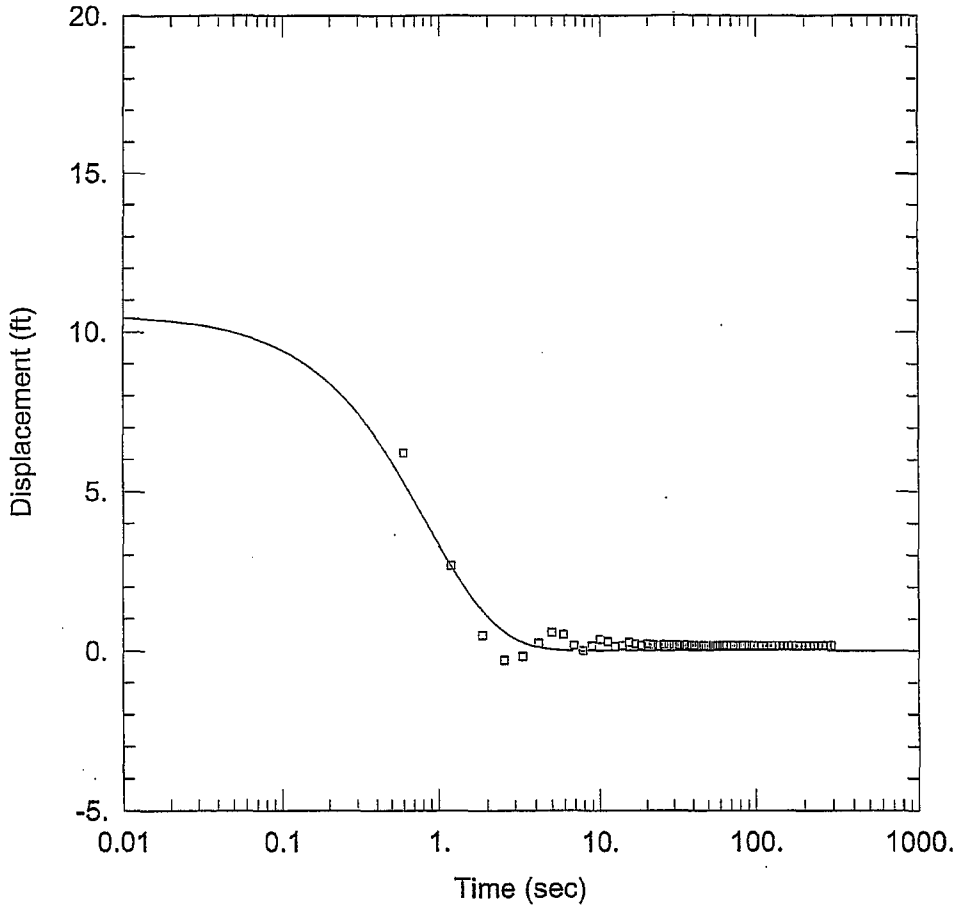
Saturated Thickness (b)	feet
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1
Depth to Top of Well Screen (d)	
Length of Well Screen (L)	10' feet
Radius of Well Casing (rc)	0.083 feet
Radius of Screen (rw)	0.083 feet
Radius of Probe (req)	
Radius of Boring (rsk) Skin Effect	0.083 feet
Probe Serial Number	Mini Troll Transducer probe Cal 4/29/08, Exp 4/29/09. SN: 118478 Level Troll @ 700 Winsitu
Slug Data	Used pneumatic slug to perform Slug test.
Length	
weight	
Diameter	

Slug Test File	Background	Falling	Rising
File Name	OW-621UBG	NA	OW-621UR
Start Time	14:55:02		15:01:55
End Time	14:56:38		15:06:56

Notes

Rev D

Prepared by: CHB Date: 6-20-08
Checked by: WSL Date: 6-20-08



OW-621 U RISING HEAD TEST

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-621 U
Test Date: 5-20-08

AQUIFER DATA

Saturated Thickness: 27.56 ft

WELL DATA (OW-621 U)

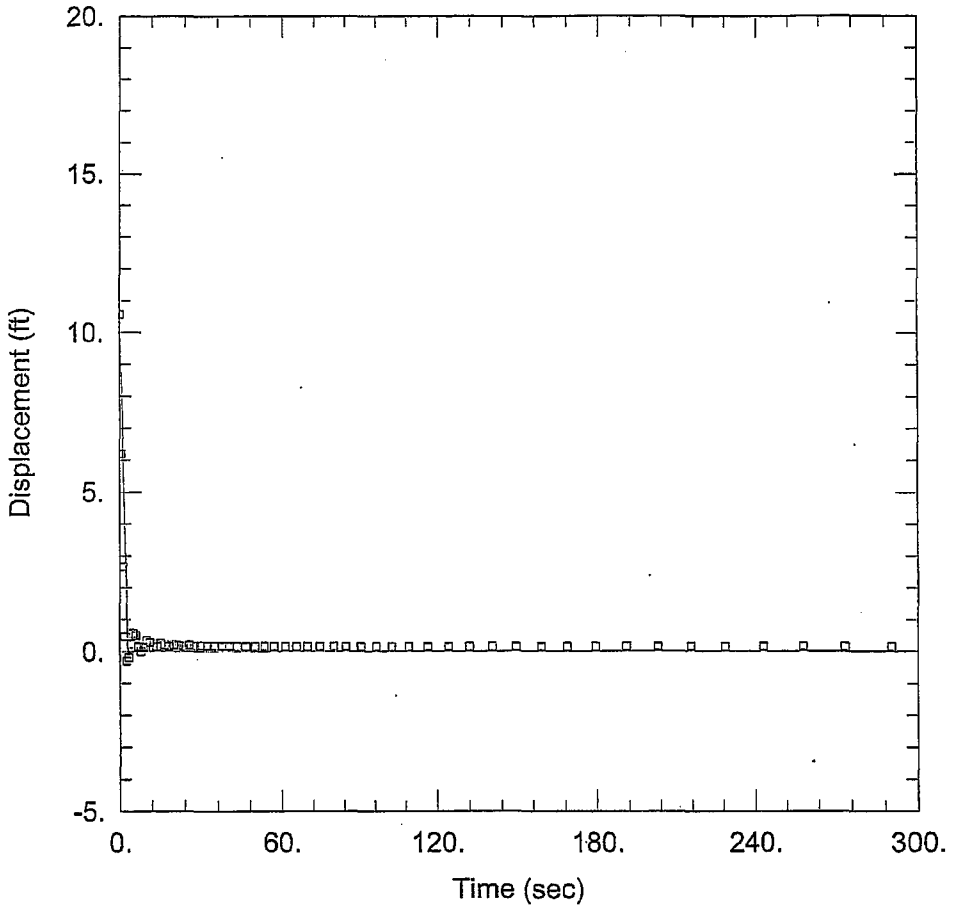
Initial Displacement: 10.56 ft
Total Well Penetration Depth: 30. ft
Casing Radius: 0.083 ft
Static Water Column Height: 27.56 ft
Screen Length: 15.6 ft
Well Radius: 0.3 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 94.35 ft/day
Kz/Kr = 1.
Ss = 3.846E-12 ft^{-1}

Prepared by: CWB Date: 6-20-08
Checked by: WSK Date: 6-20-08



OW-621 U RISING HEAD TEST

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-621 U
Test Date: 5-20-08

AQUIFER DATA

Saturated Thickness: 27.56 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (OW-621 U)

Initial Displacement: 10.56 ft
Total Well Penetration Depth: 30. ft
Casing Radius: 0.083 ft
Static Water Column Height: 27.56 ft
Screen Length: 15.6 ft
Well Radius: 0.3 ft

SOLUTION

Aquifer Model: Unconfined
K = 68.89 ft/day
Solution Method: Springer-Gelhar
Le = 7.075 ft

Checked by: CHB Date: 6-20-08

MACTEC

SLUG TEST REPORT

Project Name: TPCOL	Project Number:	Page 1 of 1	
Client: Bechtel	Contractor: MACTEC		
Location: OW-621L	MACTEC Rep: Kim Chals-Smith	Date: 05/17/08	

UNITS			
Length	Feet		
Time	Minutes		
Well Data	Final Stickup = 3.27' from g.s.		
Static Water Level	4.13' feet from TOC		
Total Well Depth	111.55' feet from TOC		
Static Water Column Height (H)	~~107.42'~~ feet		
	Background	Falling Head	Rising Head
Observed Initial Displacement (H_0)	NA		
Saturated Thickness (b)	feet		
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1		
Depth to Top of Well Screen (d)			
Length of Well Screen (L)	10' feet		
Radius of Well Casing (rc)	0.083 feet		
Radius of Screen (rw)	0.083 feet		
Radius of Probe (req)			
Radius of Boring (rsk) Skin Effect	0.083 feet		
	Mini Troll Transducer Calibrated 4/29/08 Exp. 4/29/09		
Probe Serial Number	SN: 103345		
Slug Data Slug #2			
Length	65.438 inches		
weight	8.811 lbs.		
Diameter	1.662 inches		
Slug Test File	Background	Falling	Rising
File Name	OW-621LBG	OW-621LF	OW-621LR
Start Time	13:08:51	13:19:05	13:34:46
End Time	13:15:32	13:31:41	13:43:41

Notes

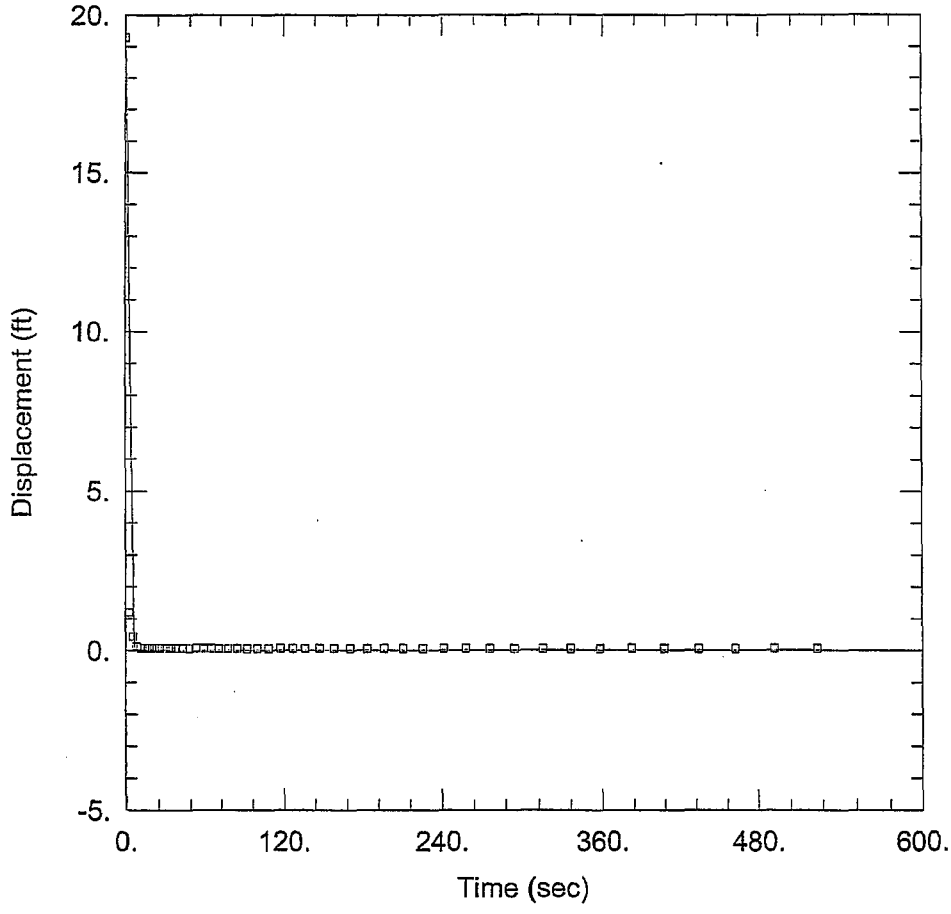
KB 5-17-08

Put Slug in well and re-ran OW-621LRBG

OW-621LBG	OW-621LR (Re-test)
13:49:25	14:03:14
13:59:51	14:20:02

Rev 0

Prepared by: CBB Date: 6-20-08
Checked by: [illegible] Date: 6-20-08



OW-621 L FALLING HEAD TEST 5-17-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-621 L
Test Date: 5-17-08

AQUIFER DATA

Saturated Thickness: 88.5 ft
Anisotropy Ratio (Kz/Kr): 1.

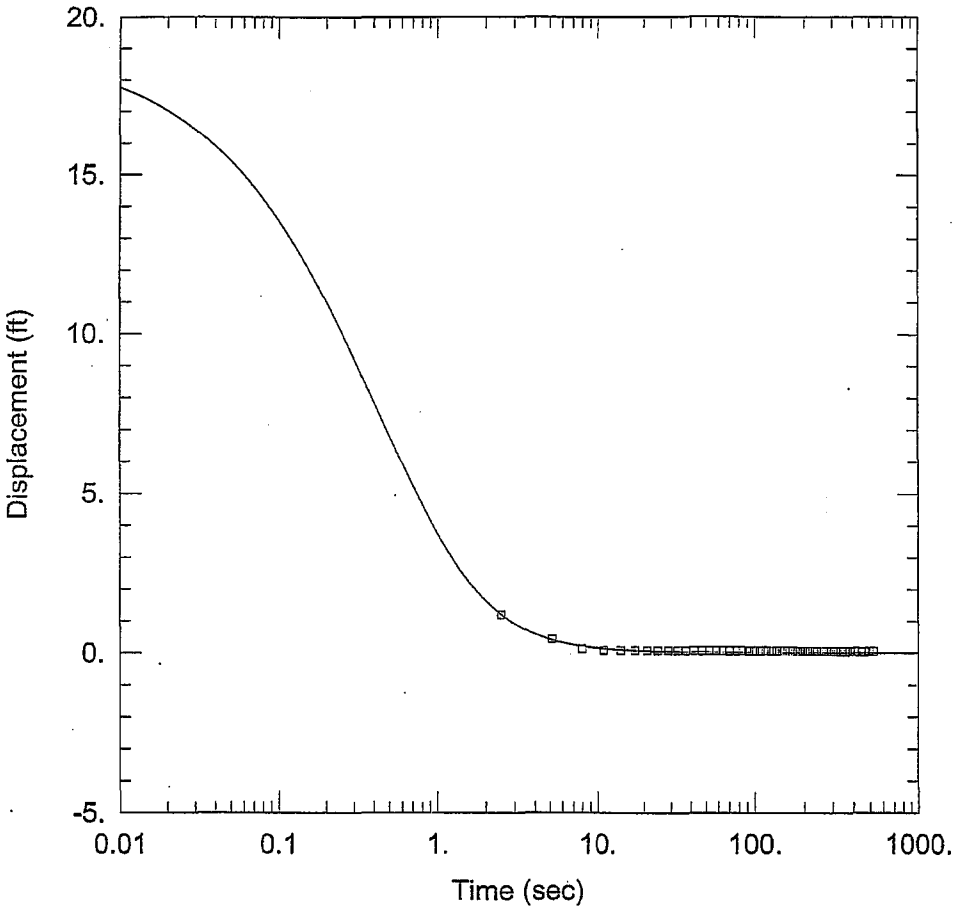
WELL DATA (OW-621 L)

Initial Displacement: 19.29 ft
Total Well Penetration Depth: 110. ft
Casing Radius: 0.083 ft
Static Water Column Height: 108.9 ft
Screen Length: 15. ft
Well Radius: 0.3 ft

SOLUTION

Aquifer Model: Confined
K = 91.59 ft/day
Solution Method: Butler
Le = 0.1 ft

Prepared by: CHB Date: 6-20-08
Checked by: [illegible] Date: 6-20-08



OW-621 L FALLING HEAD TEST 5-17-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-621 L
Test Date: 5-17-08

AQUIFER DATA

Saturated Thickness: 88.5 ft

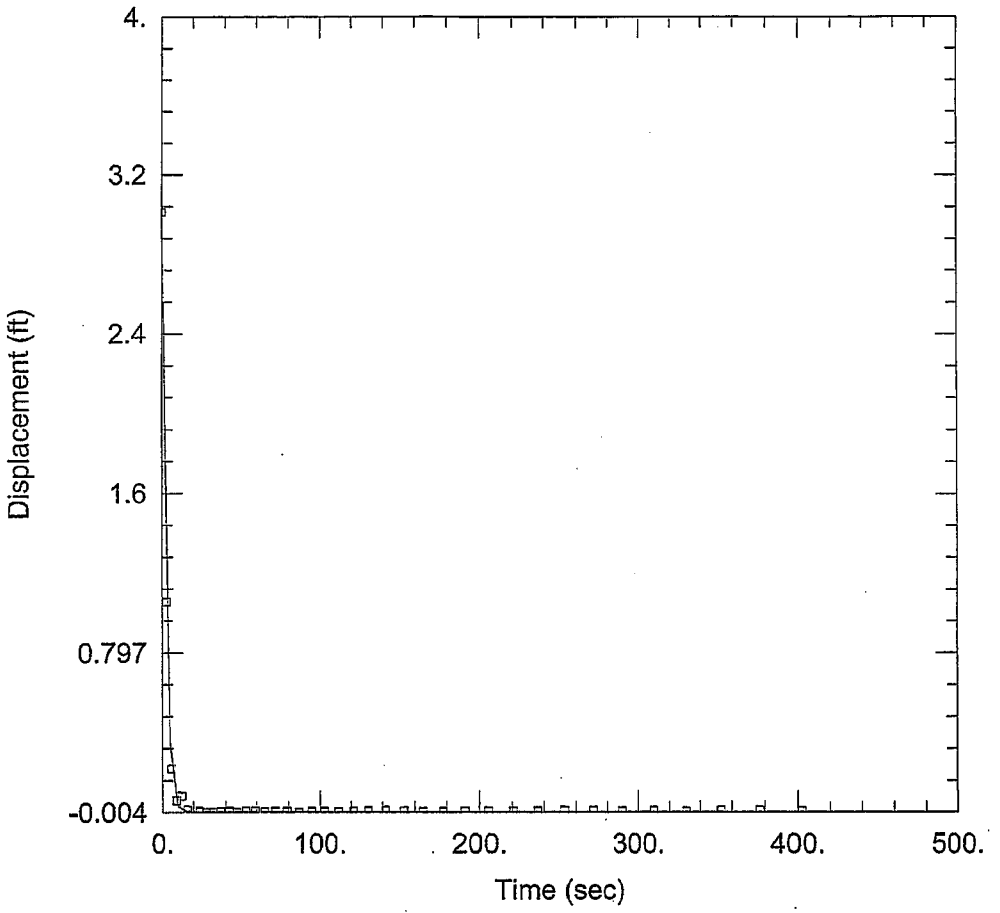
WELL DATA (OW-621 L)

Initial Displacement: 19.29 ft
Total Well Penetration Depth: 110. ft
Casing Radius: 0.083 ft
Static Water Column Height: 108.9 ft
Screen Length: 15. ft
Well Radius: 0.3 ft

SOLUTION

Aquifer Model: Confined
Kr = 71.28 ft/day
Kz/Kr = 1.
Solution Method: KGS Model
Ss = 0.0001716 ft^{-1}

Prepared by: CHB Date: 6-20-08
Checked by: WSP Date: 6-20-08



OW-621 L RISING HEAD TEST 5-17-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-621 L
Test Date: 5-17-08

AQUIFER DATA

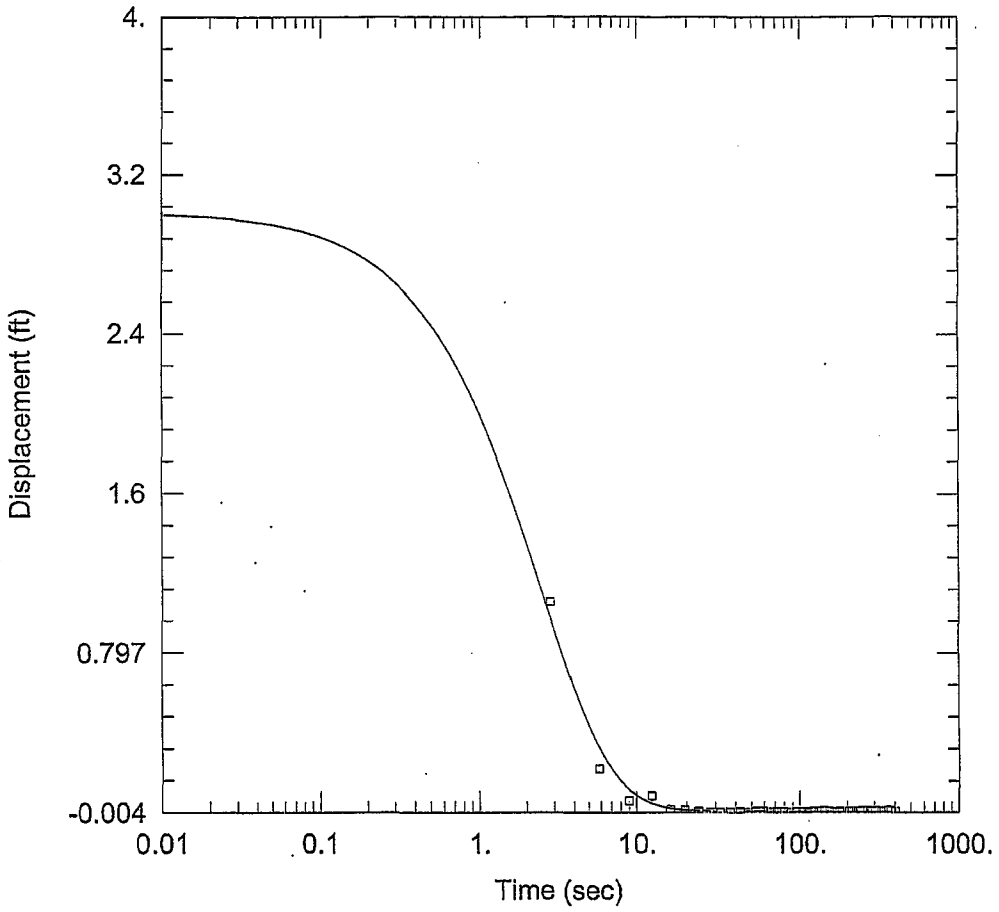
Saturated Thickness: 88.5 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (OW-621 L)

Initial Displacement: 3.011 ft
Total Well Penetration Depth: 110. ft
Casing Radius: 0.083 ft
Static Water Column Height: 108.9 ft
Screen Length: 15. ft
Well Radius: 0.3 ft

SOLUTION

Aquifer Model: Confined
K = 31.07 ft/day
Solution Method: Butler
Le = 41.67 ft



OW-621 L RISING HEAD TEST 5-17-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-621 L
Test Date: 5-17-08

AQUIFER DATA

Saturated Thickness: 88.5 ft

WELL DATA (OW-621 L)

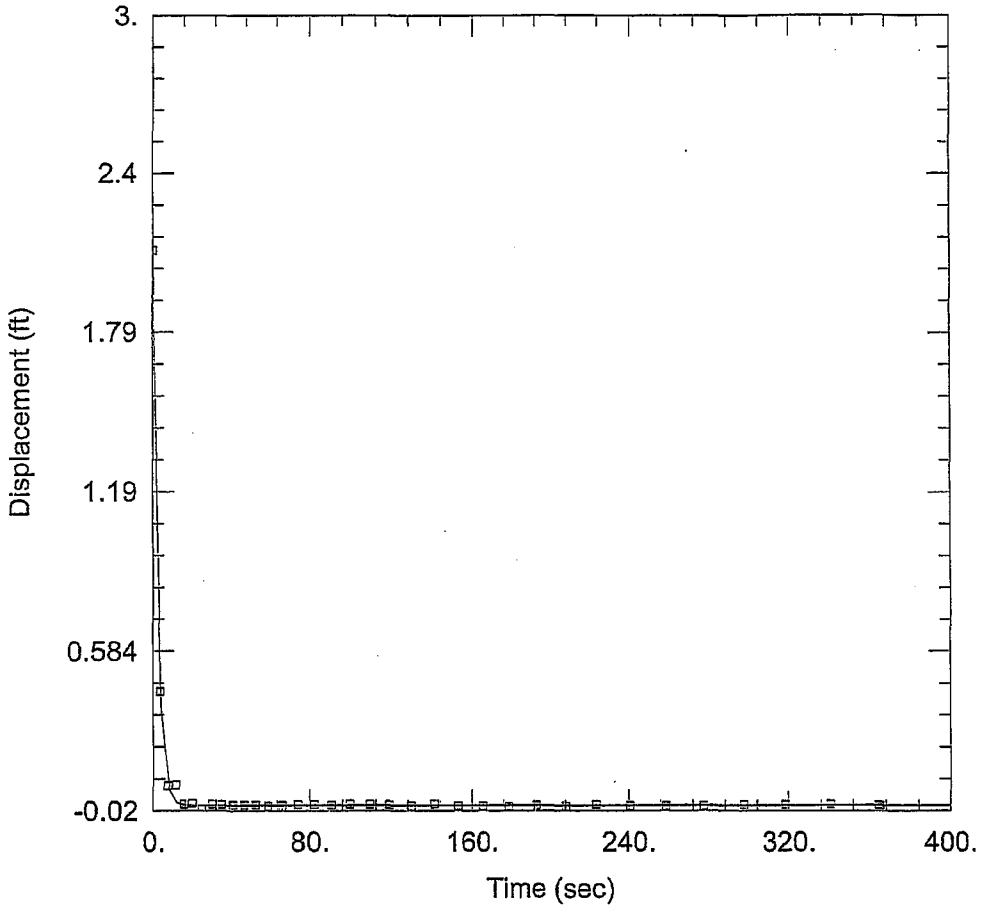
Initial Displacement: 3.011 ft
Total Well Penetration Depth: 110. ft
Casing Radius: 0.083 ft
Static Water Column Height: 108.9 ft
Screen Length: 15. ft
Well Radius: 0.3 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 33.31 ft/day
Kz/Kr = 1.
Ss = 1.13E-12 ft^{-1}

Prepared by: CHB Date: 6-20-08
Checked by: CGS Date: 6-30-08



OW-621 L RISING HEAD TEST # 2 5-17-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-621 L
Test Date: 5-17-08

AQUIFER DATA

Saturated Thickness: 88.5 ft
Anisotropy Ratio (Kz/Kr): 1.

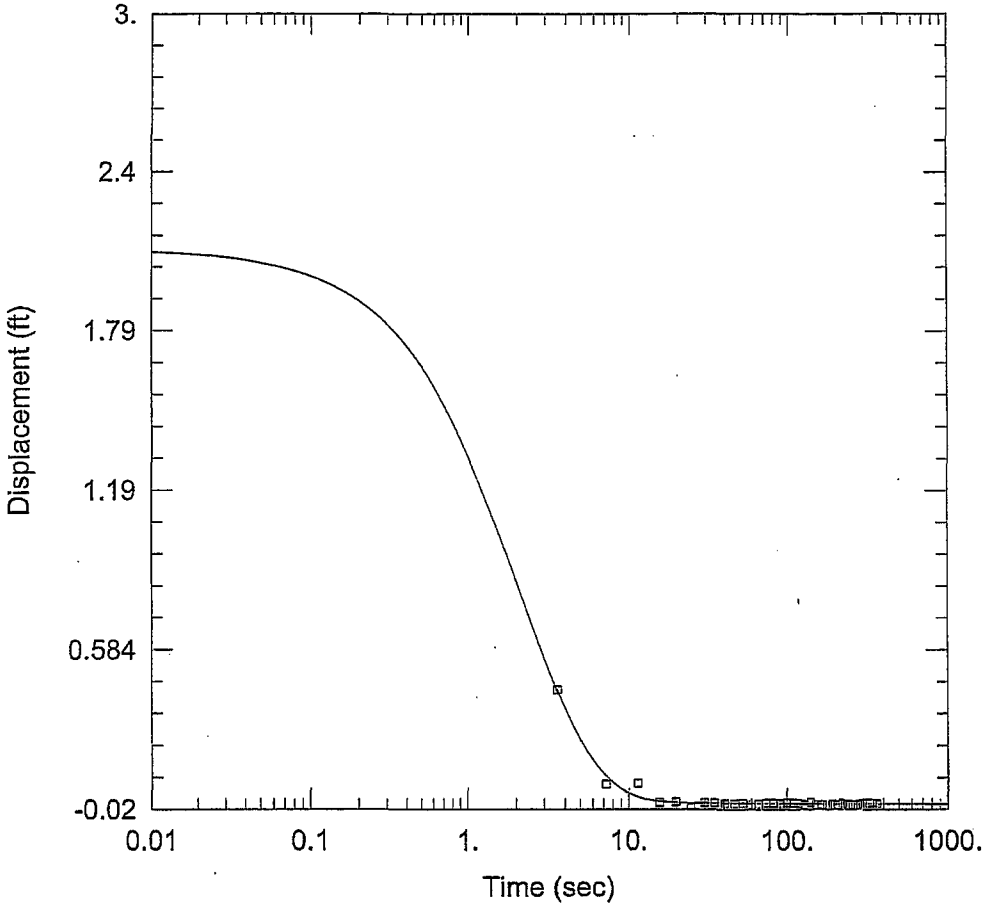
WELL DATA (OW-621 L)

Initial Displacement: 2.103 ft
Total Well Penetration Depth: 110. ft
Casing Radius: 0.083 ft
Static Water Column Height: 108.9 ft
Screen Length: 15. ft
Well Radius: 0.3 ft

SOLUTION

Aquifer Model: Confined
K = 35.72 ft/day
Solution Method: Butler
Le = 0.1 ft

Prepared by: CHB Date: 6-20-08
Checked by: [illegible] Date: 6-30-08



OW-621 L RISING HEAD TEST # 2 5-17-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-621 L
Test Date: 5-17-08

AQUIFER DATA

Saturated Thickness: 88.5 ft

WELL DATA (OW-621 L)

Initial Displacement: 2.103 ft
Total Well Penetration Depth: 110. ft
Casing Radius: 0.083 ft
Static Water Column Height: 108.9 ft
Screen Length: 15. ft
Well Radius: 0.3 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 30.4 ft/day
Kz/Kr = 1.
Ss = 5.781E-8 ft^{-1}

Checked by: CHB Date: 6-20-08

MACTEC

SLUG TEST REPORT

Project Name: TPCOL	664608-07-1950 Project Number:	Page 1 of 1	
Client: Bechtel	Contractor: MACTEC		
Location: OW-621L	MACTEC Rep: Kim Chacks-Smith	Date: 05/20/08	
UNITS			
Length	Feet		
Time	Minutes		
Well Data	Final Stickup = 3.27'		
Static Water Level	4.71' feet From TOC		
Total Well Depth	111.55' feet from TOC		
Static Water Column Height (H)	feet		

	Background	Falling Head	Rising Head
Observed Initial Displacement (H_0)	NA		

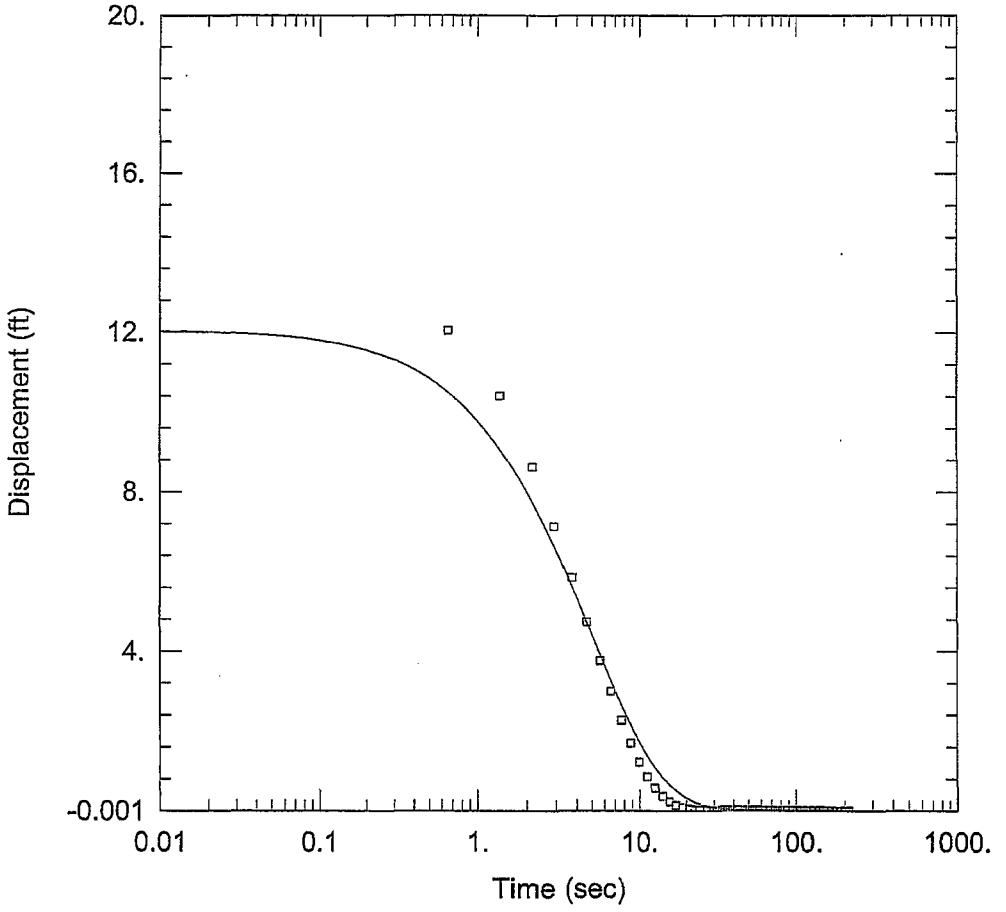
Saturated Thickness (b)	feet
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1
Depth to Top of Well Screen (d)	
Length of Well Screen (L)	10' feet
Radius of Well Casing (rc)	0.083 feet
Radius of Screen (rw)	0.083 feet
Radius of Probe (req)	
Radius of Boring (rsk) Skin Effect	0.083 feet
	Mini Troll Transducer probe calibrated 4/29/08, Exp 4/29/09.
Probe Serial Number	SN: 118478 Level Troll @ 700
	WinSitu
Slug Data	Used pneumatic slug to perform test.
Length	
weight	
Diameter	

Slug Test File	Background	Falling	Rising
File Name	OW-621L BG	NA	OW-621L R
Start Time	15:14:40		15:22:48
End Time	15:17:33		15:26:44

Notes

Rev 0

Prepared by: CHB Date: 6-20-08
Checked by: bgs Date: 6-20-08



OW-621 L RISING HEAD TEST 5-20-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-621 L
Test Date: 5-17-08

AQUIFER DATA

Saturated Thickness: 88.5 ft

WELL DATA (OW-621 L)

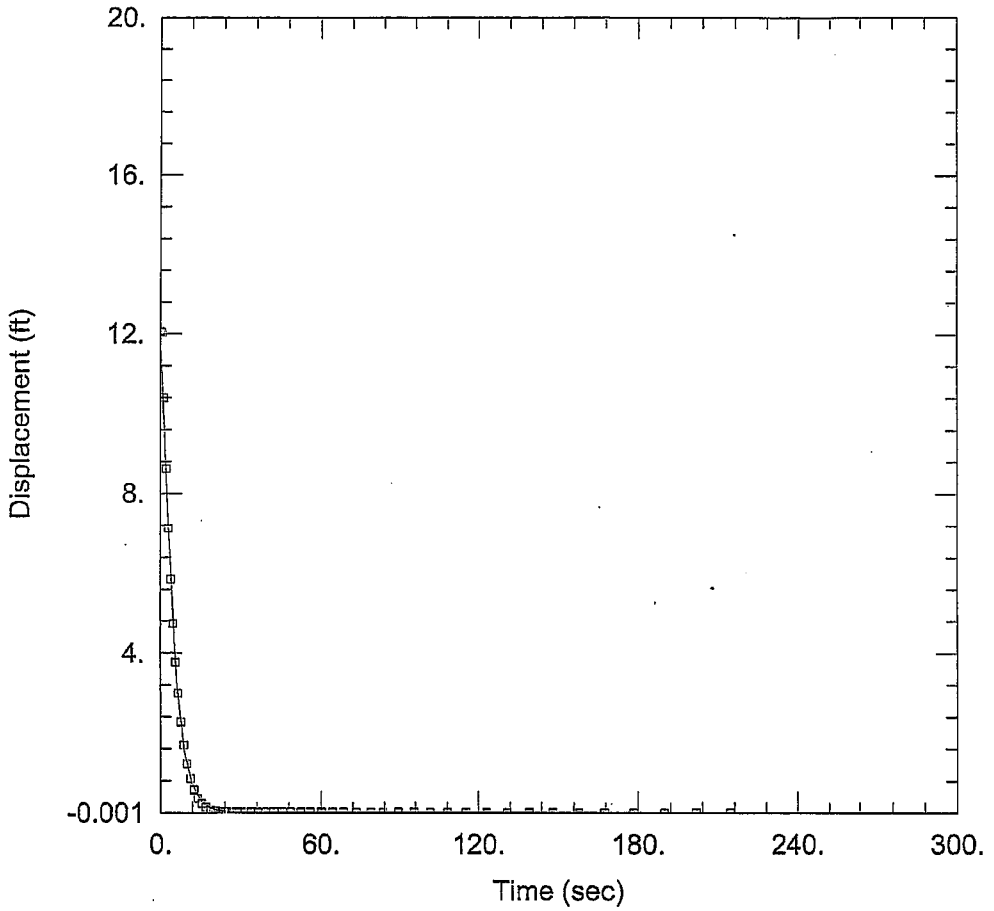
Initial Displacement: 12.05 ft
Total Well Penetration Depth: 110. ft
Casing Radius: 0.083 ft
Static Water Column Height: 108.3 ft
Screen Length: 15. ft
Well Radius: 0.3 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 16.66 ft/day
Kz/Kr = 1.
Ss = 1.13E-12 ft^{-1}

Prepared by: CWB Date: 6-20-08
Checked by: Lwse Date: 6-20-08



OW-621 L RISING HEAD TEST 5-20-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-621 L
Test Date: 5-17-08

AQUIFER DATA

Saturated Thickness: 88.5 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (OW-621 L)

Initial Displacement: 12.05 ft
Total Well Penetration Depth: 110. ft
Casing Radius: 0.083 ft
Static Water Column Height: 108.3 ft
Screen Length: 15. ft
Well Radius: 0.3 ft

SOLUTION

Aquifer Model: Confined
K = 16.65 ft/day
Solution Method: Butler
Le = 117.9 ft

Checked by: CHB Date: 6-26-08

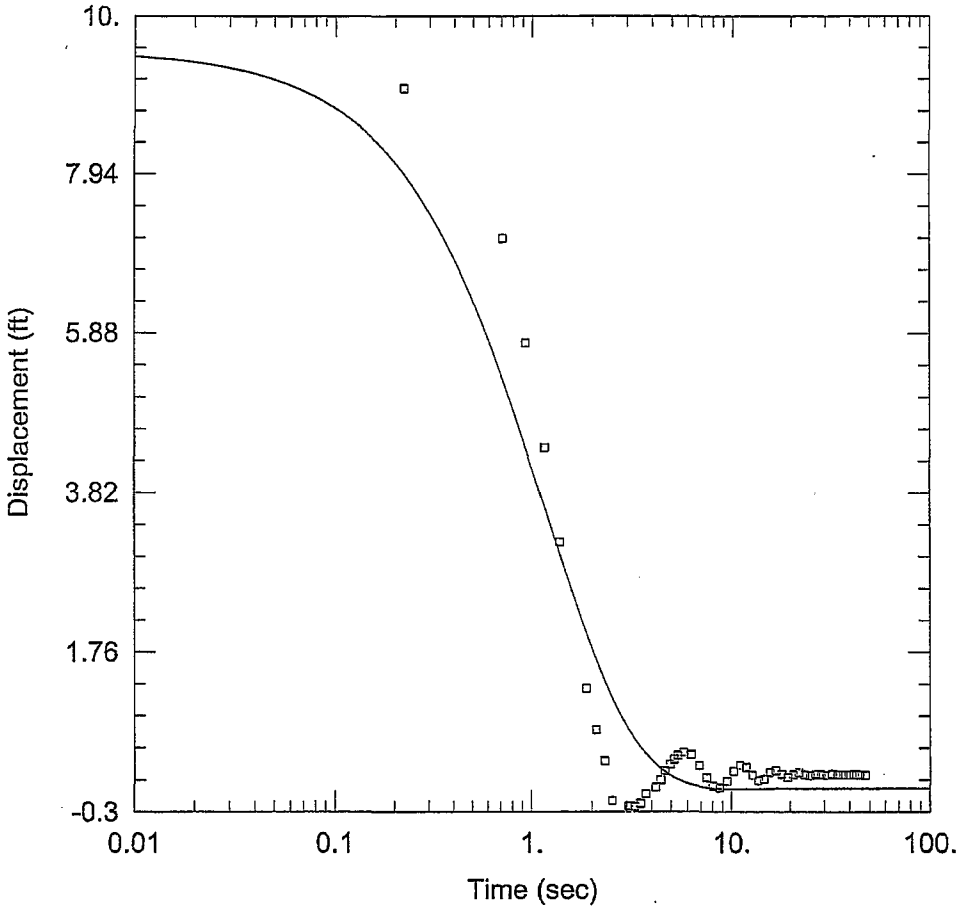
MACTEC

SLUG TEST REPORT

Project Name: TPCOL	Project Number: 6168-07-1858	Page 1 of 1	
Client: Bechtel	Contractor: MACTEC		
Location: OW-636 U	MACTEC Rep: CHB	Date: 5/21/08	
UNITS			
Length	Feet		
Time	Minutes		
Well Data			
Static Water Level	4.35 feet		
Total Well Depth	31.35 feet		
Static Water Column Height (H)	feet		
	Background	Falling Head	Rising Head
Observed Initial Displacement (H_0)	NA	NA	
Saturated Thickness (b)	feet		
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1		
Depth to Top of Well Screen (d)			
Length of Well Screen (L)	10' feet		
Radius of Well Casing (rc)	0.083 feet		
Radius of Screen (rw)	0.083 feet		
Radius of Probe (rsp)	0.75 inch		
Radius of Boring (rsk) Skin Effect	0.083 feet		
	Level troll @ 700 calibrated 4/29/08 Exp 4/29/09		
Probe Serial Number SN:	118478 Winsitu		
Slug Data	pneumatic Slug		
Length			
weight			
Diameter			
Slug Test File	Background	Falling	Rising
File Name	OW-636 UB6	NA	OW-636 UR
Start Time			OW-636 UR Test 2
End Time			
Notes	OW-636 UB6 OW-636 UR Test		
	12:05:37 12:10:35		
	12:06:27 12:11:13		

Rev 0

Prepared by: CHS Date: 6-20-08
Checked by: [illegible] Date: 6-[illegible]-08



OW-636 U RISING HEAD TEST 5-21-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-636 U
Test Date: 5-21-08

AQUIFER DATA

Saturated Thickness: 28.85 ft

WELL DATA (OW-636 U)

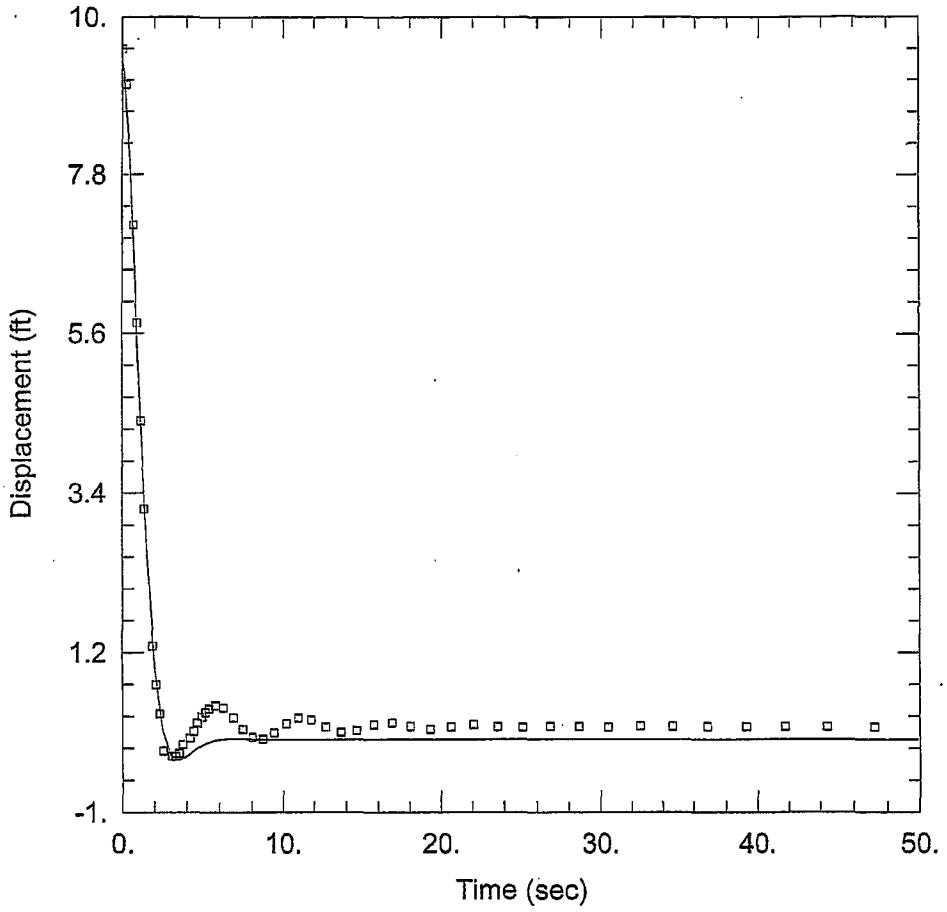
Initial Displacement: 9.553 ft
Total Well Penetration Depth: 29.8 ft
Casing Radius: 0.083 ft
Static Water Column Height: 28.85 ft
Screen Length: 17. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 57.27 ft/day
Kz/Kr = 1.
Ss = 3.846E-12 ft^{-1}

Prepared by: CHB Date: 6-20-08
Checked by: WSV Date: 6-20-08



OW-636 U RISING HEAD TEST 5-21-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-636 U
Test Date: 5-21-08

AQUIFER DATA

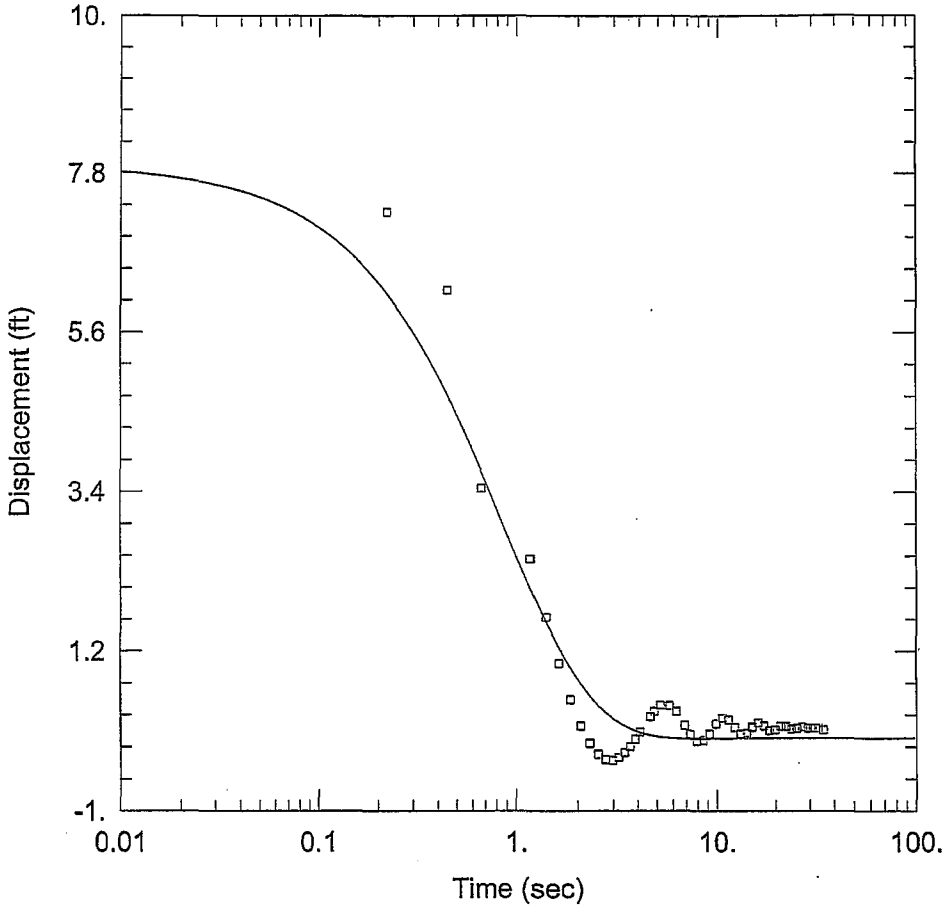
Saturated Thickness: 28.85 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (OW-636 U)

Initial Displacement: 9.553 ft
Total Well Penetration Depth: 29.8 ft
Casing Radius: 0.083 ft
Static Water Column Height: 28.85 ft
Screen Length: 17. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
K = 50.64 ft/day
Solution Method: Springer-Gelhar
Le = 17.14 ft



OW-636 U RISING HEAD TEST # 2 5-21-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-636 U
Test Date: 5-21-08

AQUIFER DATA

Saturated Thickness: 28.85 ft

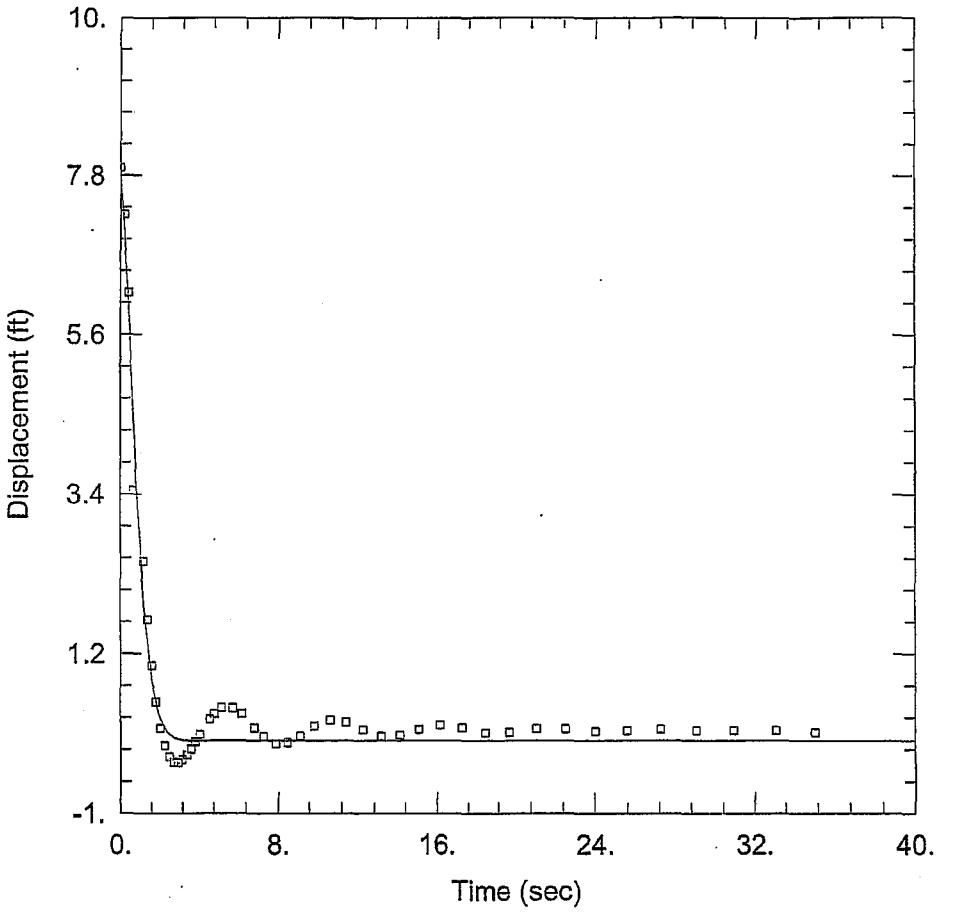
WELL DATA (OW-636 U)

Initial Displacement: 7.909 ft
Total Well Penetration Depth: 29.8 ft
Casing Radius: 0.083 ft
Static Water Column Height: 28.85 ft
Screen Length: 17. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Kr = 79.27 ft/day
Kz/Kr = 1.
Solution Method: KGS Model
Ss = 3.846E-12 ft^{-1}

Prepared by: CHB Date: 6-20-08
Checked by: WGL Date: 6-20-08



OW-636 U RISING HEAD TEST # 2 5-21-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-636 U
Test Date: 5-21-08

AQUIFER DATA

Saturated Thickness: 28.85 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (OW-636 U)

Initial Displacement: 7.909 ft
Total Well Penetration Depth: 29.8 ft
Casing Radius: 0.083 ft
Static Water Column Height: 28.85 ft
Screen Length: 17. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
K = 64.33 ft/day
Solution Method: Springer-Gelhar
Le = 6.95 ft

Checked by: CHB Date: 6-20-08

MACTEC

SLUG TEST REPORT

Project Name: TP COL	Project Number: 6468-07-1800	Page 1 of 1	
Client: Bechtel	Contractor: MACTEC		
Location: OW-636 L	MACTEC Rep: CHB	Date: 5/21/08	

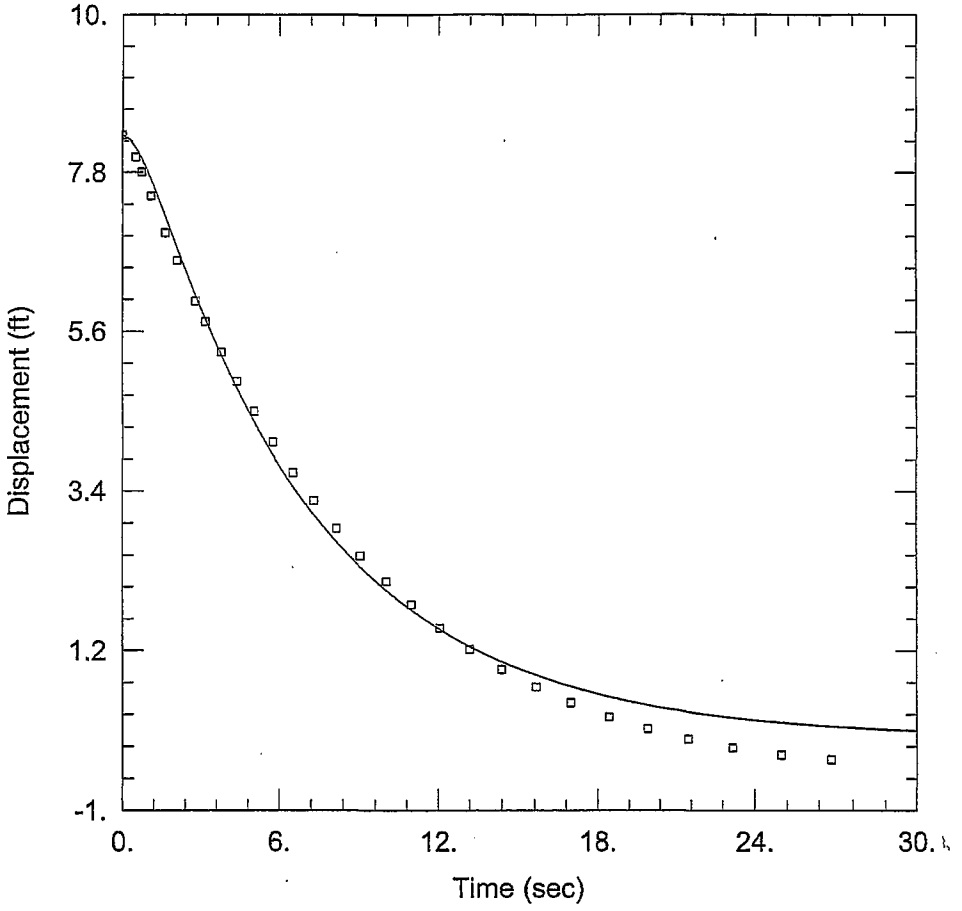
UNITS			
Length	Feet		
Time	Minutes		
Well Data			
Static Water Level	2.74 feet		
Total Well Depth	111.75 feet		
Static Water Column Height (H)	feet		
	Background	Falling Head	Rising Head
Observed Initial Displacement (H_o)	NA	NA	
Saturated Thickness (b)	feet		
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1		
Depth to Top of Well Screen (d)			
Length of Well Screen (L)	feet		
Radius of Well Casing (rc)	10' 0.083 feet		
Radius of Screen (rw)	0.083 feet		
Radius of Probe (req)			
Radius of Boring (rsk) Skin Effect	0.083 feet		
	MiniTroll® 700 calibrated 4/29/08, exp 4/29/09		
Probe Serial Number	Sn: 118478 Winsitu		
Slug Data	pneumatic slug		
Length			
weight			
Diameter			
Slug Test File	Background	Falling	Rising
File Name	OW-636 L BG	NA	OW-636a L R
Start Time	12:23:14		OW-636 2 R Test 2
End Time	12:29:22		

Notes

OW-636L R — OW-636L R Test
12:32:42 — 12:38:53
12:33:15 — 12:42:14

Rev 0

Prepared by: CHB Date: 6-20-08
Checked by: [illegible] Date: 6-20-08



OW-636 L RISING HEAD TEST 5-20-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-636 L
Test Date: 5-21-08

AQUIFER DATA

Saturated Thickness: 88. ft
Anisotropy Ratio (Kz/Kr): 1.

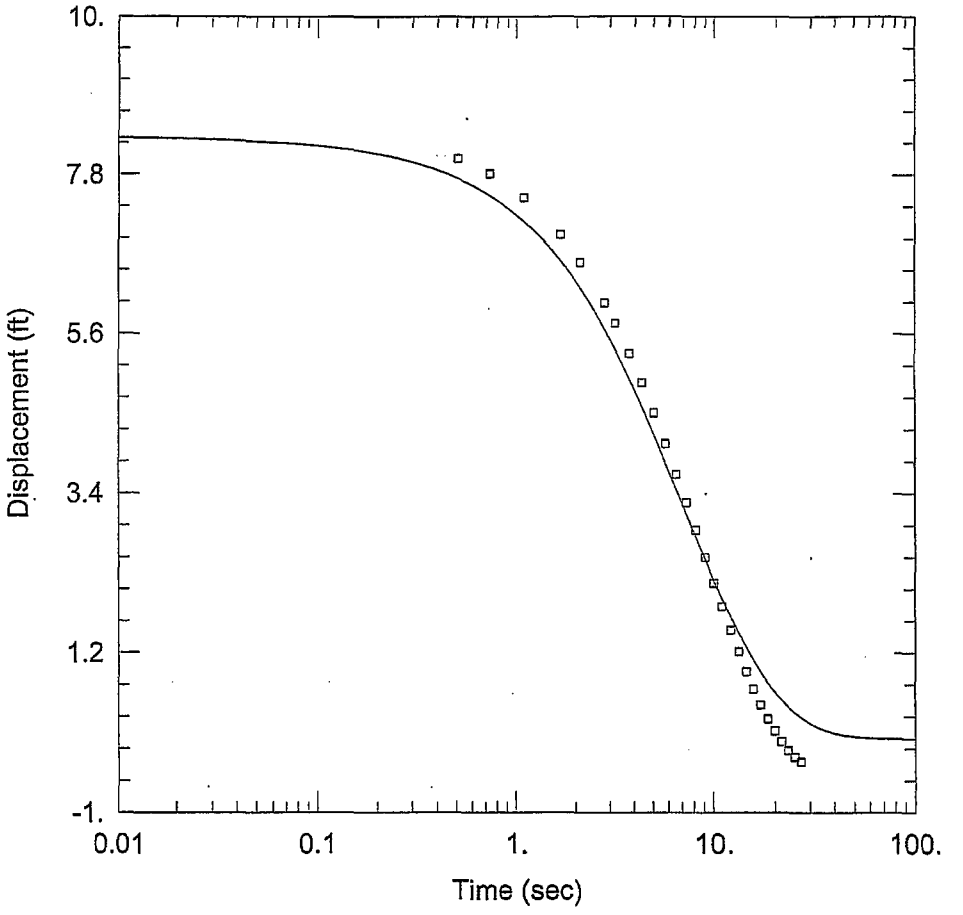
WELL DATA (OW-621 L)

Initial Displacement: 8.321 ft
Total Well Penetration Depth: 111. ft
Casing Radius: 0.083 ft
Static Water Column Height: 111.7 ft
Screen Length: 17.5 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined
K = 10.08 ft/day
Solution Method: Butler
Le = 158.1 ft

Prepared by: CHB Date: 6-20-08
Checked by: WSP Date: 6-20-08



OW-636 L RISING HEAD TEST 5-20-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-636 L
Test Date: 5-21-08

AQUIFER DATA

Saturated Thickness: 88. ft

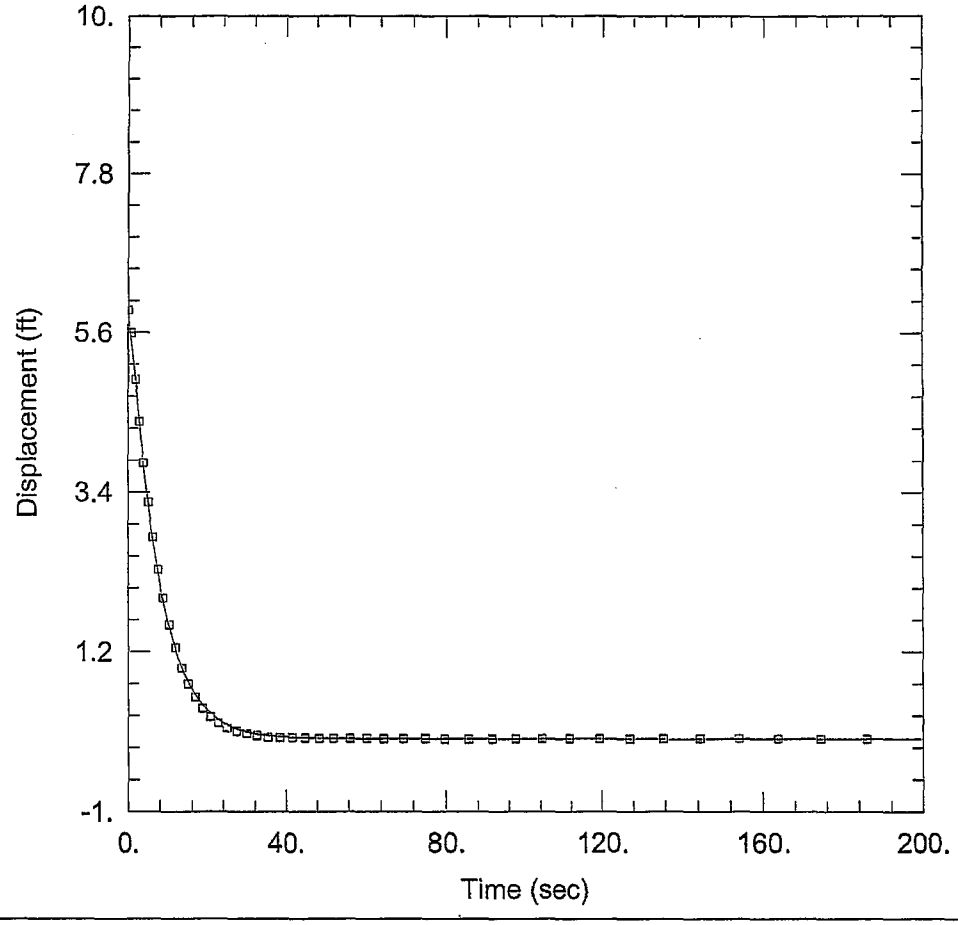
WELL DATA (OW-636 L)

Initial Displacement: 8.321 ft
Total Well Penetration Depth: 111. ft
Casing Radius: 0.083 ft
Static Water Column Height: 111.7 ft
Screen Length: 17.5 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model
Kr = 10.58 ft/day
Kz/Kr = 1.
Ss = 1.13E-12 ft^{-1}

Prepared by: CHB Date: 6-20-08
Checked by: WSR Date: 6-26-08



OW-636 L RISING HEAD TEST # 2 5-20-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-636 L
Test Date: 5-21-08

AQUIFER DATA

Saturated Thickness: 88. ft
Anisotropy Ratio (Kz/Kr): 1.

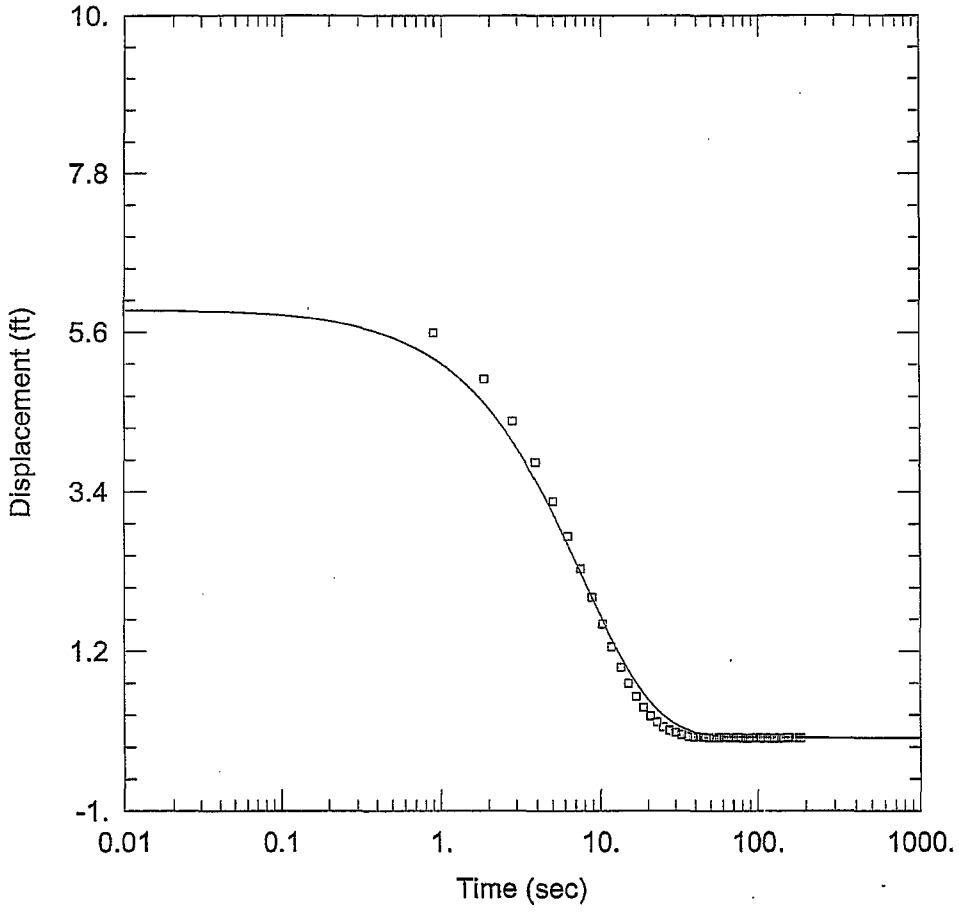
WELL DATA (OW-621 L)

Initial Displacement: 5.913 ft
Total Well Penetration Depth: 111. ft
Casing Radius: 0.083 ft
Static Water Column Height: 111.7 ft
Screen Length: 17.5 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined
K = 9.425 ft/day
Solution Method: Butler
Le = 166.7 ft

Prepared by: CLR Date: 6-20-08
Checked by: WJS Date: 6-20-08



OW-636 L RISING HEAD TEST # 2 5-20-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-636 L
Test Date: 5-21-08

AQUIFER DATA

Saturated Thickness: 88. ft

WELL DATA (OW-636 L)

Initial Displacement: 5.913 ft
Total Well Penetration Depth: 111. ft
Casing Radius: 0.083 ft
Static Water Column Height: 111.7 ft
Screen Length: 17.5 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 10.01 ft/day
Kz/Kr = 1.
Ss = 1.13E-12 ft^{-1}

Checked by: CHB Date: 6-20-08

MACTEC

SLUG TEST REPORT

Project Name: TPCd	Project Number:	Page 1 of 1	
Client: Bechtel	Contractor: MACTEC		
Location: OW-706U	MACTEC Rep: Kim Chalo-Smith	Date: 05/16/08	

UNITS			
Length	Feet		
Time	Minutes		
Well Data	Stick up 3.61' from GS. Find		
Static Water Level	31.74' feet From TOC		
Total Well Depth	31.72' feet From TOC		
Static Water Column Height (H)	27.97' feet		
	Background	Falling Head	Rising Head
Observed Initial Displacement (H_0)	NA		
Saturated Thickness (b)	feet		
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1		
Depth to Top of Well Screen (d)			
Length of Well Screen (L)	10' feet		
Radius of Well Casing (rc)	0.083 feet		
Radius of Screen (rw)	0.083 feet		
Radius of Probe (req)			
Radius of Boring (rsk) Skin Effect	0.083 feet		
	Mini Troll Transducer probe calibrated 4/29/08		
Probe Serial Number	Exp. 4/29/09.		
SN: 103345			
Slug Data Slug #2			
Length	65.438 inches		
weight	8.811 lbs.		
Diameter	1.662 inches		
Slug Test File	Background	Falling (5/16/08)	Rising
File Name	OW-706UBG	OW-706UF	OW-706UR
Start Time	15:21:06	15:41:27 5/16/08	15:45:39
End Time	15:27:24	15:42:30 5/16/08	15:59:11

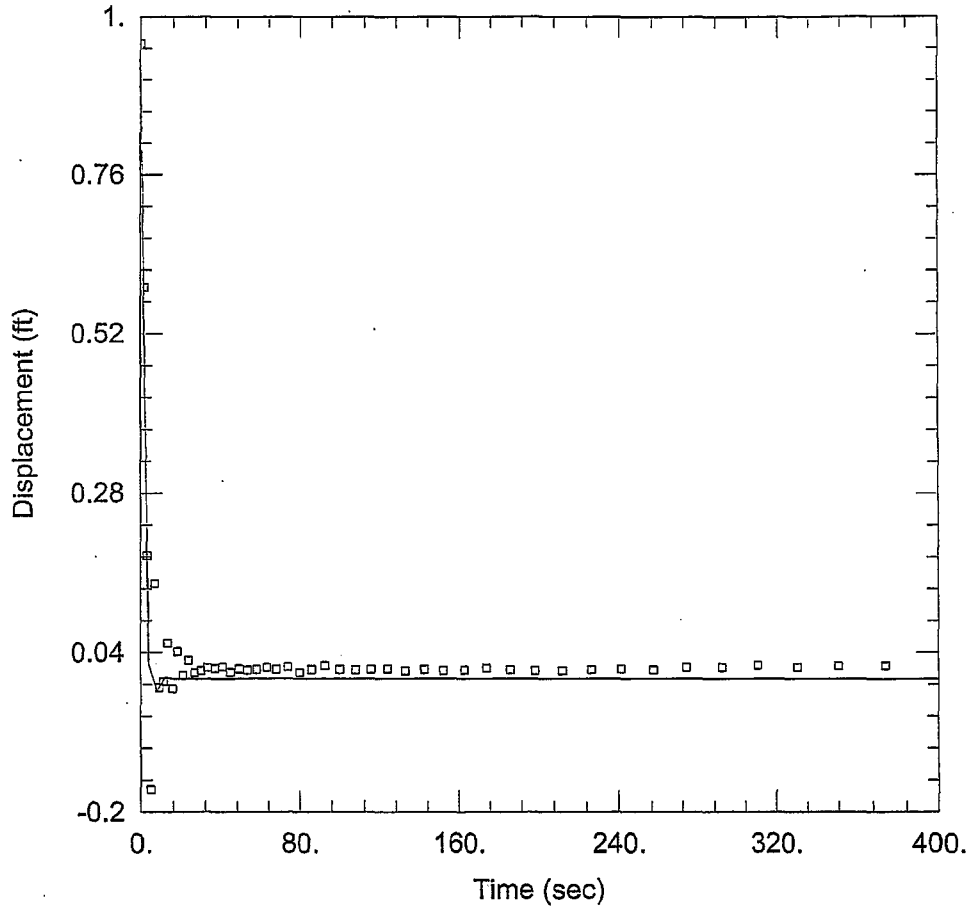
Notes: Ran 1st test Water came out of TOC, ran second test set with extention on TOC.

* Extended Casing to 5.58' above G.S. to run OW-706UR 5-16-08 for 16:33:34 Data Set

OW-706UBG	OW-706UF	OW-706UR
16:33:34	16:41:27	5/16/08 16:57:23
16:39:31	16:53:55	17:02:05

Rev 0

Prepared by: CHB Date: 6-20-08
Checked by: LWS Date: 6-20-08



OW-706 U RISING HEAD TEST 5-16-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-706 U
Test Date: 5-16-08

AQUIFER DATA

Saturated Thickness: 30.66 ft
Anisotropy Ratio (Kz/Kr): 1.

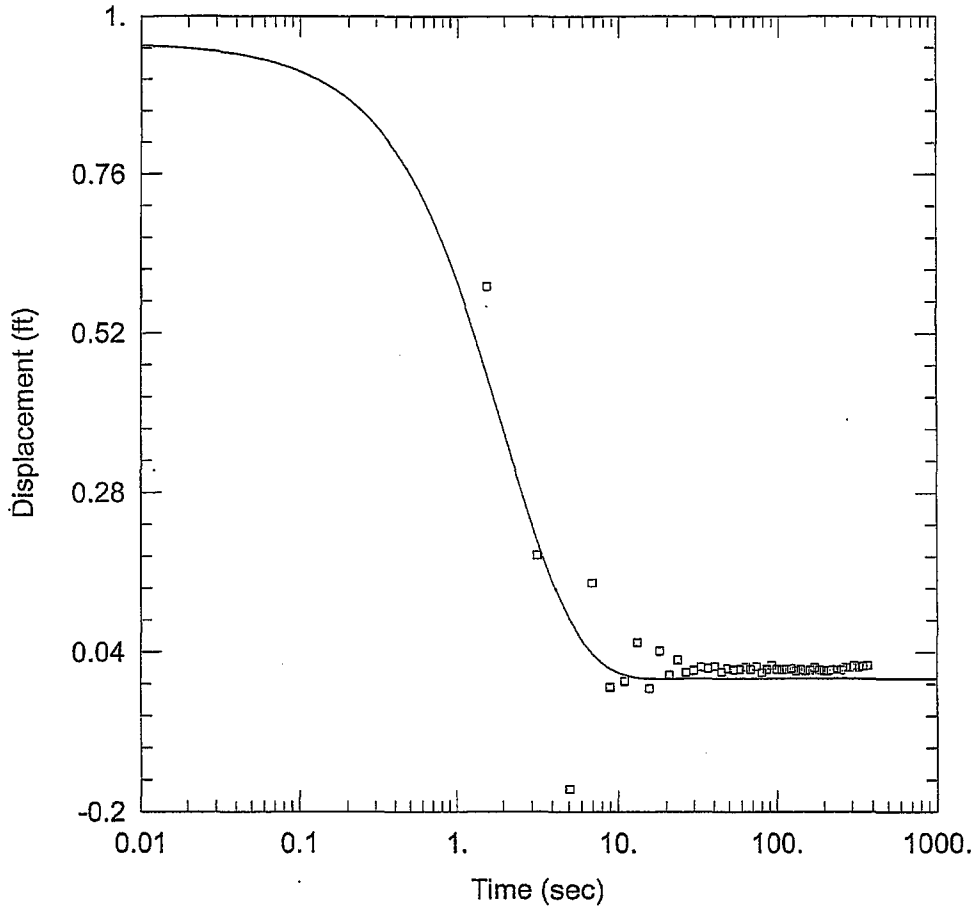
WELL DATA (OW-706 U)

Initial Displacement: 0.96 ft
Total Well Penetration Depth: 28.9 ft
Casing Radius: 0.083 ft
Static Water Column Height: 28.46 ft
Screen Length: 15.5 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
K = 30.27 ft/day
Solution Method: Springer-Gelhar
Le = 56.23 ft

Prepared by: CHG Date: 6-20-08
Checked by: WSK Date: 6-20-08



OW-706 U RISING HEAD TEST 5-16-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-706 U
Test Date: 5-16-08

AQUIFER DATA

Saturated Thickness: 30.66 ft

WELL DATA (OW-706 U)

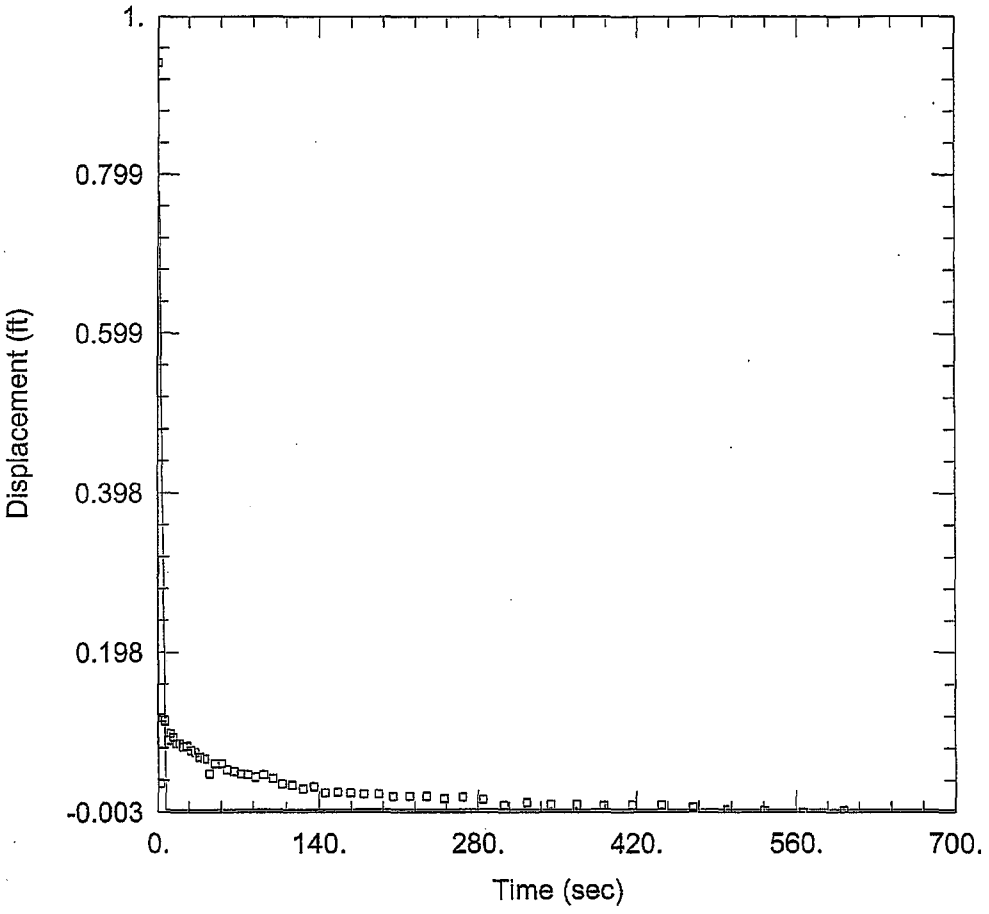
Initial Displacement: 0.96 ft
Total Well Penetration Depth: 28.9 ft
Casing Radius: 0.083 ft
Static Water Column Height: 28.46 ft
Screen Length: 15.5 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 31.19 ft/day
Kz/Kr = 1.
Ss = 3.205E-12 ft^{-1}

Prepared by: CHB Date: 6-20-08
Checked by: [illegible] Date: 6-20-08



OW-706 U FALLING HEAD TEST 5-16-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-706 U
Test Date: 5-16-08

AQUIFER DATA

Saturated Thickness: 30.66 ft
Anisotropy Ratio (Kz/Kr): 1.

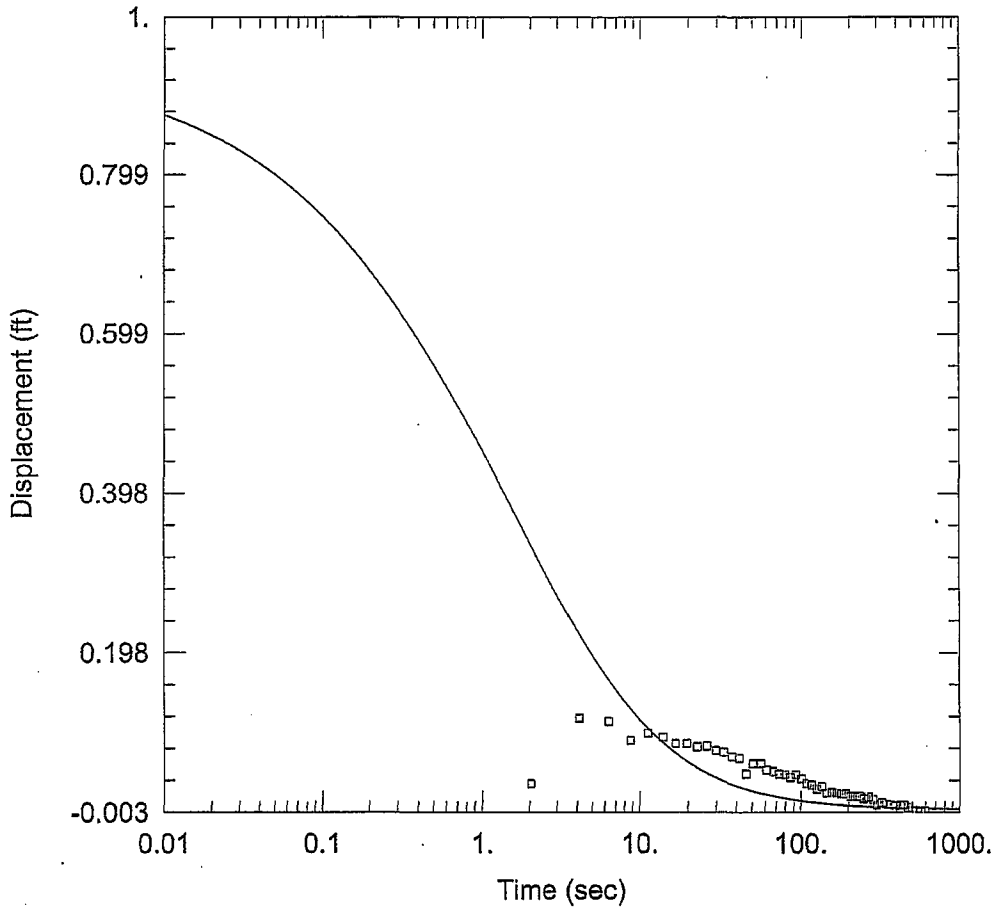
WELL DATA (OW-706 U)

Initial Displacement: 0.941 ft
Total Well Penetration Depth: 28.9 ft
Casing Radius: 0.083 ft
Static Water Column Height: 28.46 ft
Screen Length: 15.5 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
K = 83.78 ft/day
Solution Method: Springer-Gelhar
Le = 0.1 ft

Prepared by: EHB Date: 6-30-08
Checked by: WSL Date: 6-30-08



OW-706 U FALLING HEAD TEST 5-16-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-706 U
Test Date: 5-16-08

AQUIFER DATA

Saturated Thickness: 30.66 ft

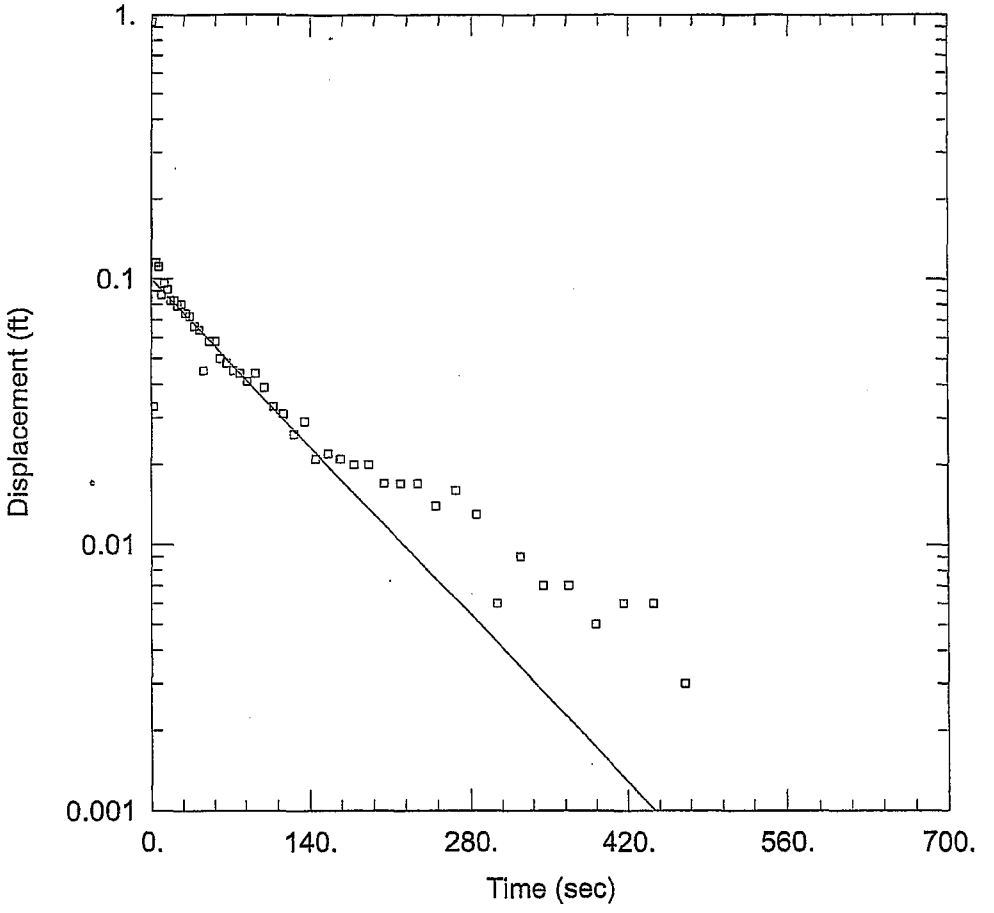
WELL DATA (OW-706 U)

Initial Displacement: 0.941 ft
Total Well Penetration Depth: 28.9 ft
Casing Radius: 0.083 ft
Static Water Column Height: 28.46 ft
Screen Length: 15.5 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Kr = 6.423 ft/day
Kz/Kr = 1.
Solution Method: KGS Model
Ss = 0.003205 ft^{-1}

Prepared by: CHB Date: 6-20-08
Checked by: WSL Date: 6-20-08



OW-706 U FALLING HEAD TEST 5-16-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-706 U
Test Date: 5-16-08

AQUIFER DATA

Saturated Thickness: 30.66 ft
Anisotropy Ratio (Kz/Kr): 1.

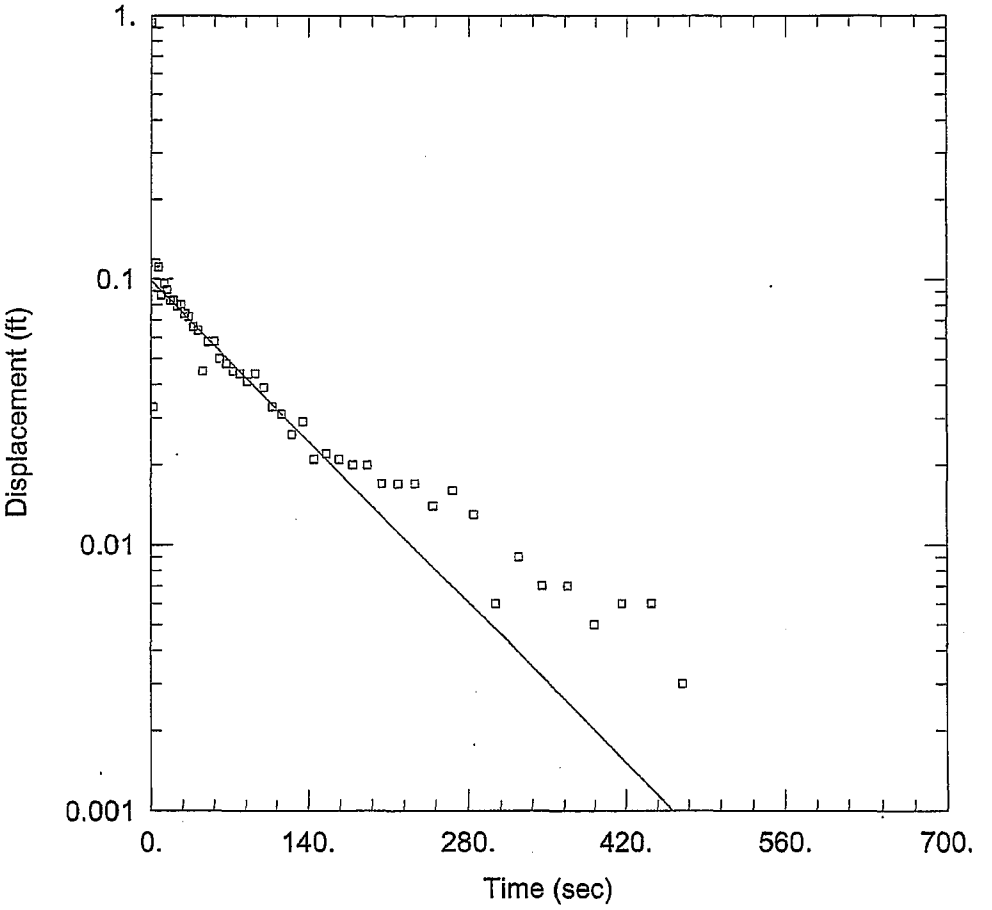
WELL DATA (OW-706 U)

Initial Displacement: 0.941 ft
Total Well Penetration Depth: 28.9 ft
Casing Radius: 0.083 ft
Static Water Column Height: 28.46 ft
Screen Length: 15.5 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.7146 ft/day
y0 = 0.09968 ft

Prepared by: CHS Date: 6-20-08
Checked by: WSV Date: 6-20-08



OW-706 U FALLING HEAD TEST 5-16-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-706 U
Test Date: 5-16-08

AQUIFER DATA

Saturated Thickness: 30.66 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (OW-706 U)

Initial Displacement: 0.941 ft
Total Well Penetration Depth: 28.9 ft
Casing Radius: 0.083 ft
Static Water Column Height: 28.46 ft
Screen Length: 15.5 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.5455 ft/day
y0 = 0.09865 ft

Checked by: CHB Date: 6-20-08

MACTEC

SLUG TEST REPORT

Project Name: TPCOL	Project Number: 6468-07-1950	Page 1 of 1	
Client: Bechtel	Contractor: MACTEC		
Location: OW-706U	MACTEC Rep: Kim Charles-Smith	Date: 05/20/08	
UNITS			
Length	Feet		
Time	Minutes		
Well Data	Final Stickup = 3.61' From g.s.		
Static Water Level	3.74' feet From TOC		
Total Well Depth	31.72' feet From TOC		
Static Water Column Height (H)	feet		

	Background	Falling Head	Rising Head
Observed Initial Displacement (H_0)	NA		

Saturated Thickness (b)	feet
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1
Depth to Top of Well Screen (d)	
Length of Well Screen (L)	10' feet
Radius of Well Casing (rc)	0.083 feet
Radius of Screen (rw)	0.083 feet
Radius of Probe (req)	
Radius of Boring (rsk) Skin Effect	0.083 feet
Probe Serial Number	mini Troll Transducer probe calibrated 7/29/08, Exp: 7/29/09 Sn: 118478 Level Troll @ 700 WinSitu
Slug Data	used pneumatic slug to perform test.
Length	
weight	
Diameter	

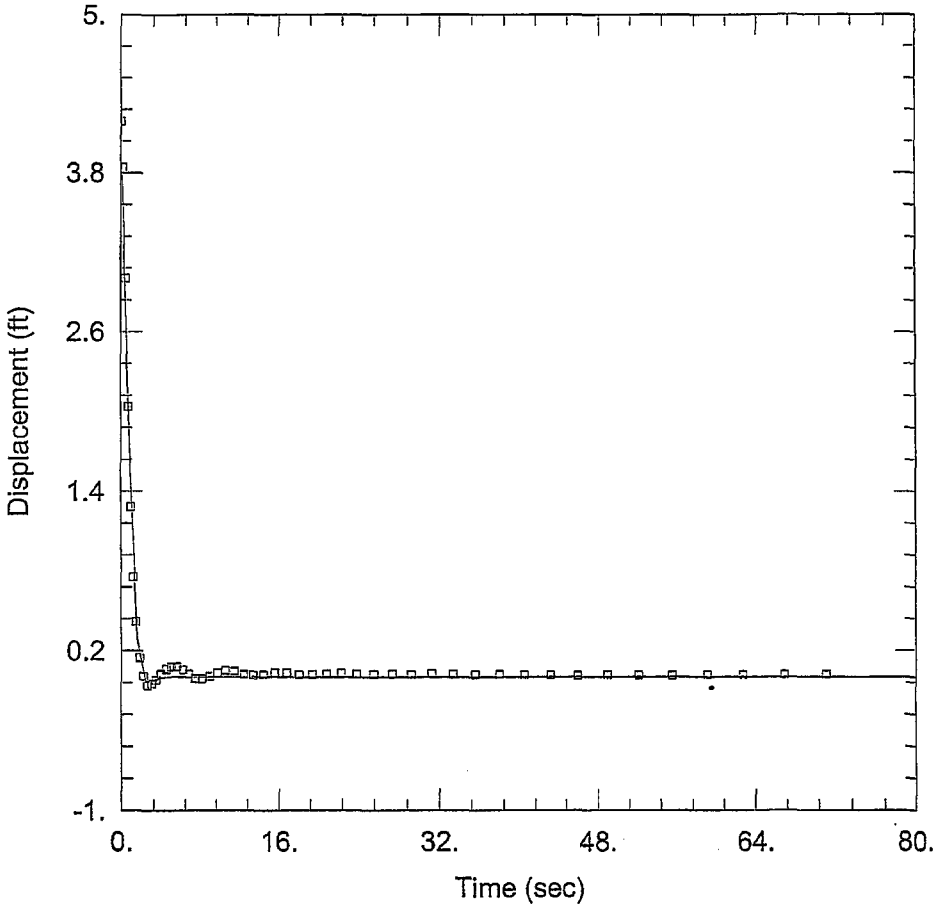
Slug Test File	Background	Falling	Rising
File Name	OW-706UBG	NA	OW-706UR
Start Time	09:55:26		10:00:13
End Time	09:56:33		10:01:29

Notes

OW-706UR
10:03:40
10:04:36

Rev 0

Prepared by: CHB Date: 6-20-08
Checked by: WSC Date: 6-20-08



OW-706 U RISING HEAD TEST 5-20-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-706 U
Test Date: 5-16-08

AQUIFER DATA

Saturated Thickness: 30.66 ft
Anisotropy Ratio (Kz/Kr): 1.

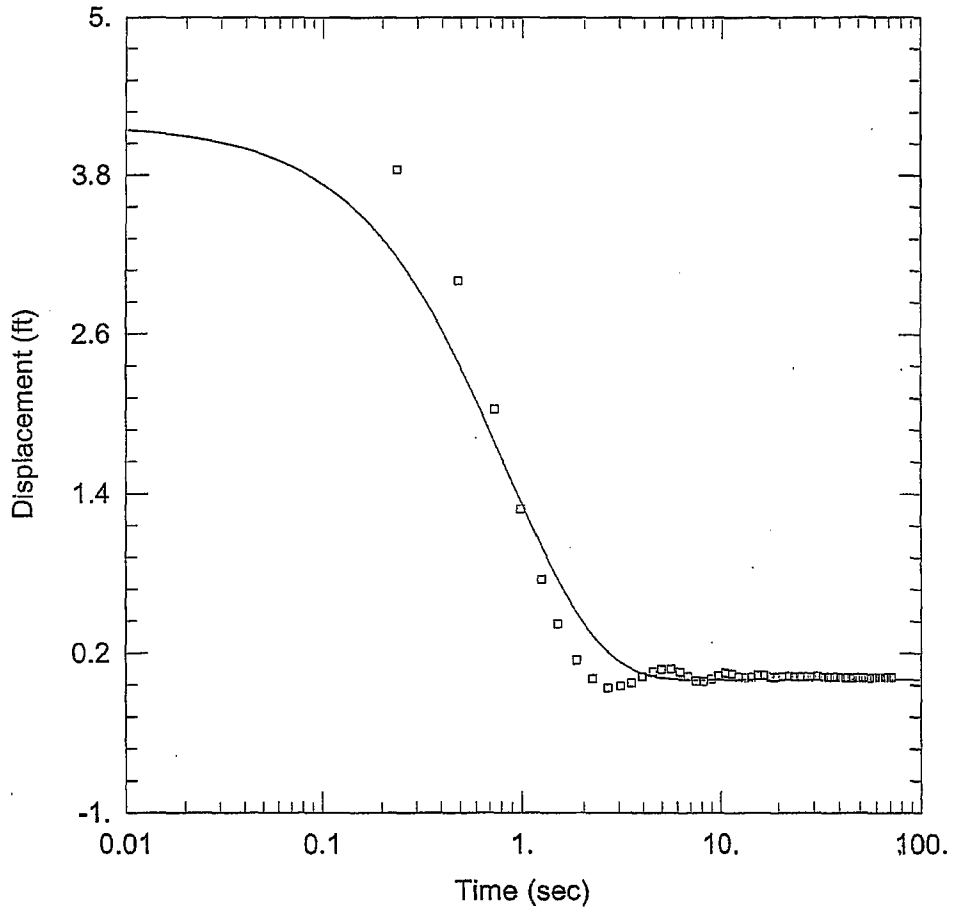
WELL DATA (OW-706 U)

Initial Displacement: 4.189 ft
Total Well Penetration Depth: 28.9 ft
Casing Radius: 0.083 ft
Static Water Column Height: 28.46 ft
Screen Length: 15.5 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
K = 70.18 ft/day
Solution Method: Springer-Gelhar
Le = 7.303 ft

Prepared by: CHB Date: 6-20-08
Checked by: WSL Date: 6-20-08



OW-706 U RISING HEAD TEST 5-20-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-706 U
Test Date: 5-16-08

AQUIFER DATA

Saturated Thickness: 30.66 ft

WELL DATA (OW-706 U)

Initial Displacement: 4.189 ft
Total Well Penetration Depth: 28.9 ft
Casing Radius: 0.083 ft
Static Water Column Height: 28.46 ft
Screen Length: 15.5 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model
Kr = 76.09 ft/day
Kz/Kr = 1.
Ss = 3.205E-12 ft^{-1}

Checked by: CHB Date: 6-20-08

MACTEC

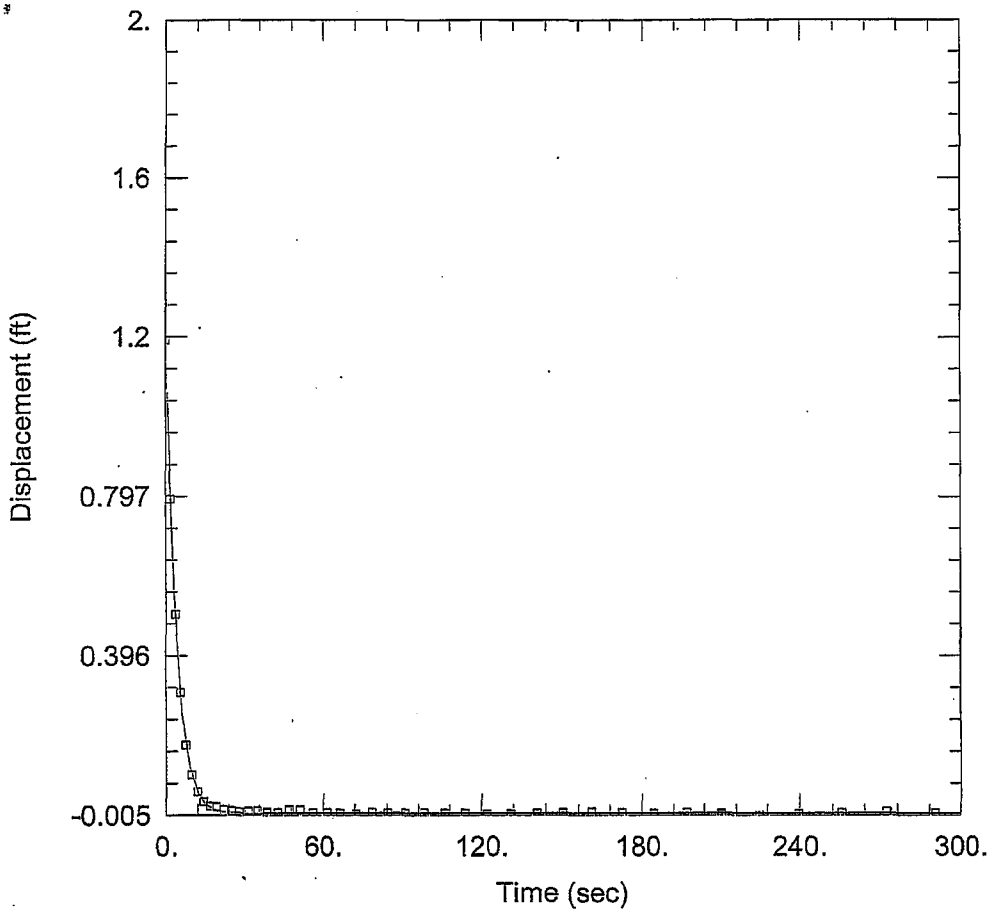
SLUG TEST REPORT

Project Name: TP COL	Project Number:	Page 1 of 1	
Client: Bechtel	Contractor: MACTEC		
Location: OW-706L	MACTEC Rep: Kim Charles-Smith	Date: 05 16 08	

UNITS			
Length	Feet		
Time	Minutes		
Well Data	Final Stickup = 3.74' From GS.		
Static Water Level	1.50' feet From TOC		
Total Well Depth	114.56' feet From TOC		
Static Water Column Height (H)	116.8' feet		
	Background	Falling Head	Rising Head
Observed Initial Displacement (H_0)	NA		
Saturated Thickness (b)	feet		
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1		
Depth to Top of Well Screen (d)			
Length of Well Screen (L)	10.0' feet		
Radius of Well Casing (rc)	0.083 feet		
Radius of Screen (rw)	0.083 feet		
Radius of Probe (req)			
Radius of Boring (rsk) Skin Effect	0.083 feet		
	Transducer Mini Troll Calibrated 4/29/08. exp. 4/29/09		
Probe Serial Number Sn:	103345		
SmKg 05/16/08			
Slug Data Slug #2			
Length	65.438 inches		
weight	8.811 lbs.		
Diameter	1.662 inches		
Slug Test File	Background	Falling	Rising
File Name	OW-706LBG	OW-706LF	OW706LR
Start Time	13:53:29	14:11:28	14:40:40
End Time	14:00:40	14:37:41	14:58:09
Notes			

Rev 0

Prepared by: CHB Date: 6-2008
Checked by: [illegible] Date: 6-20-08



OW-706 L FALLING HEAD TEST 5-16-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-706 L
Test Date: 5-16-08

AQUIFER DATA

Saturated Thickness: 82.8 ft
Anisotropy Ratio (Kz/Kr): 1.

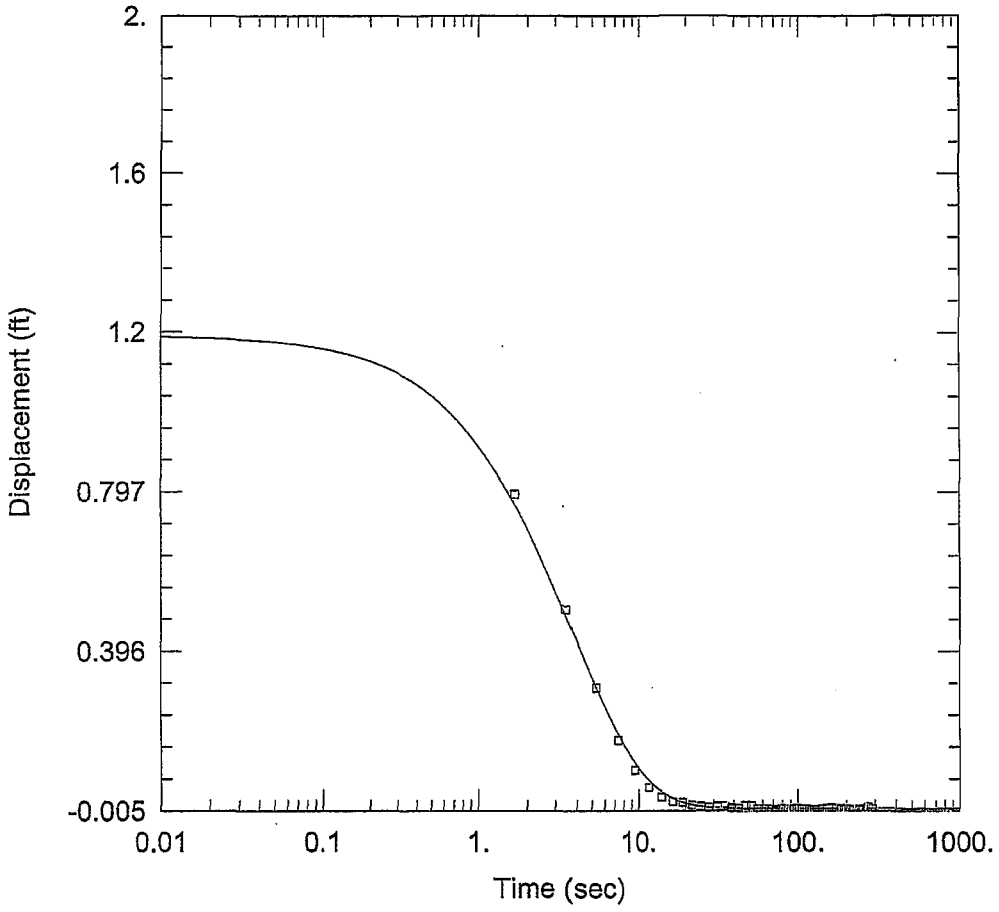
WELL DATA (OW-706 L)

Initial Displacement: 1.19 ft
Total Well Penetration Depth: 112. ft
Casing Radius: 0.083 ft
Static Water Column Height: 113.7 ft
Screen Length: 15.1 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined
K = 21.2 ft/day
Solution Method: Butler
Le = 17.46 ft

Prepared by: CHB Date: 6-20-08
Checked by: WSL Date: 6-30-08



OW-706 L FALLING HEAD TEST 5-16-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-706 L
Test Date: 5-16-08

AQUIFER DATA

Saturated Thickness: 82.8 ft

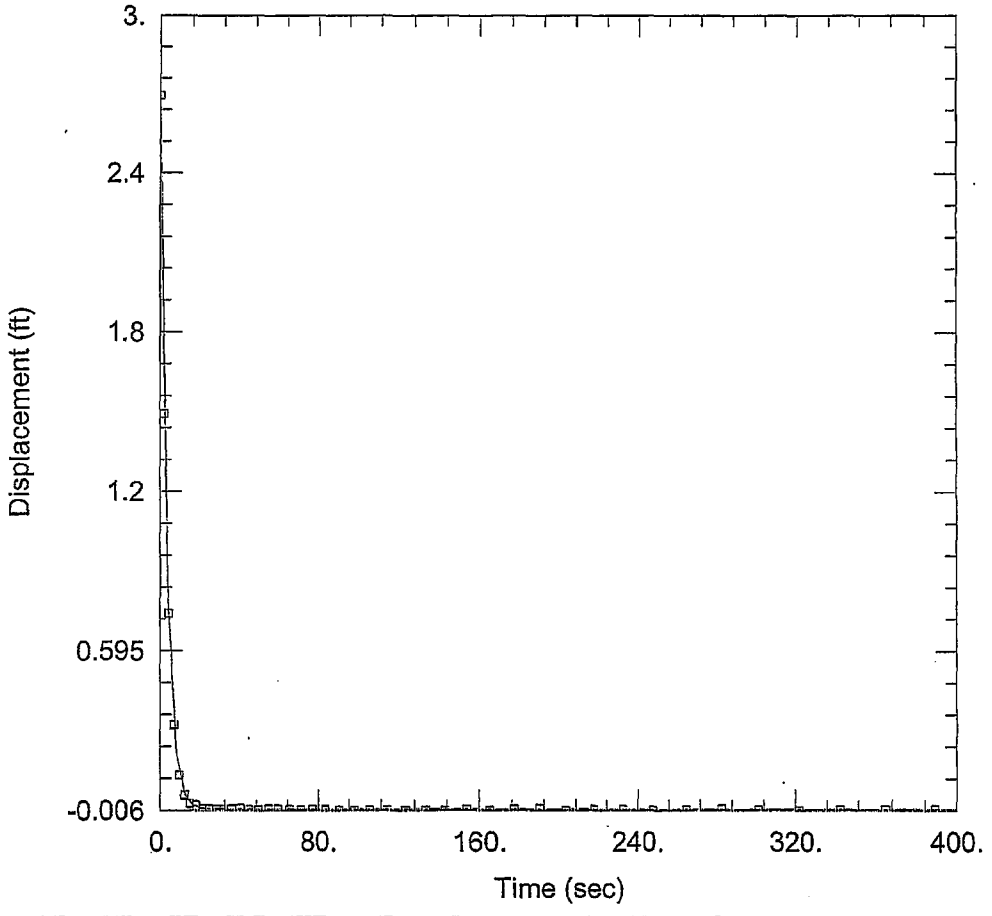
WELL DATA (OW-706 L)

Initial Displacement: 1.19 ft
Total Well Penetration Depth: 112. ft
Casing Radius: 0.083 ft
Static Water Column Height: 113.7 ft
Screen Length: 15.1 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model
Kr = 21.97 ft/day
Kz/Kr = 1.
Ss = 1.208E-12 ft^{-1}

Prepared by: CHB Date: 6-2008
Checked by: [illegible] Date: 6-10-08



OW-706 L RISING HEAD TEST 5-16-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-706 L
Test Date: 5-16-08

AQUIFER DATA

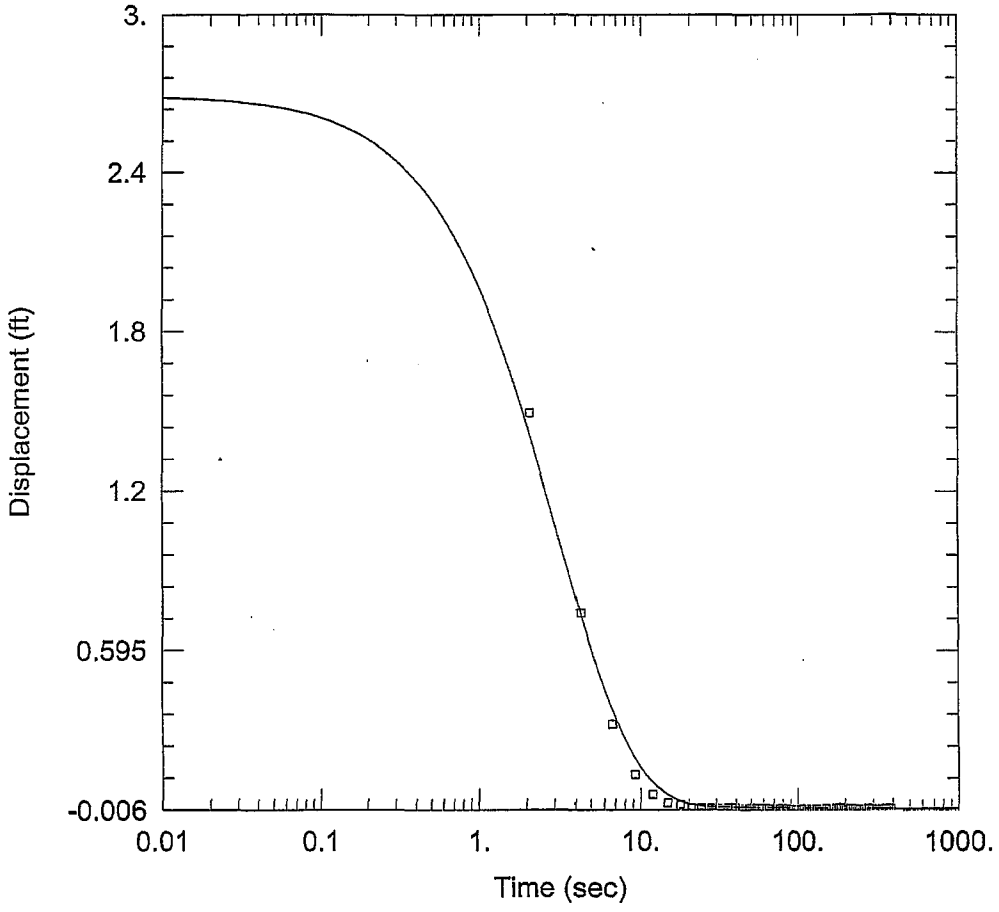
Saturated Thickness: 82.8 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (OW-706 L)

Initial Displacement: 2.693 ft
Total Well Penetration Depth: 112. ft
Casing Radius: 0.083 ft
Static Water Column Height: 113.7 ft
Screen Length: 15.1 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined
K = 25.09 ft/day
Solution Method: Butler
Le = 29.71 ft



OW-706 L RISING HEAD TEST 5-16-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-706 L
Test Date: 5-16-08

AQUIFER DATA

Saturated Thickness: 82.8 ft

WELL DATA (OW-706 L)

Initial Displacement: 2.693 ft
Total Well Penetration Depth: 112. ft
Casing Radius: 0.083 ft
Static Water Column Height: 113.7 ft
Screen Length: 15.1 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined
Kr = 26.07 ft/day
Kz/Kr = 1.
Solution Method: KGS Model
Ss = 1.208E-12 ft^{-1}

Checked by: CHB Date: 6-20-08

MACTEC

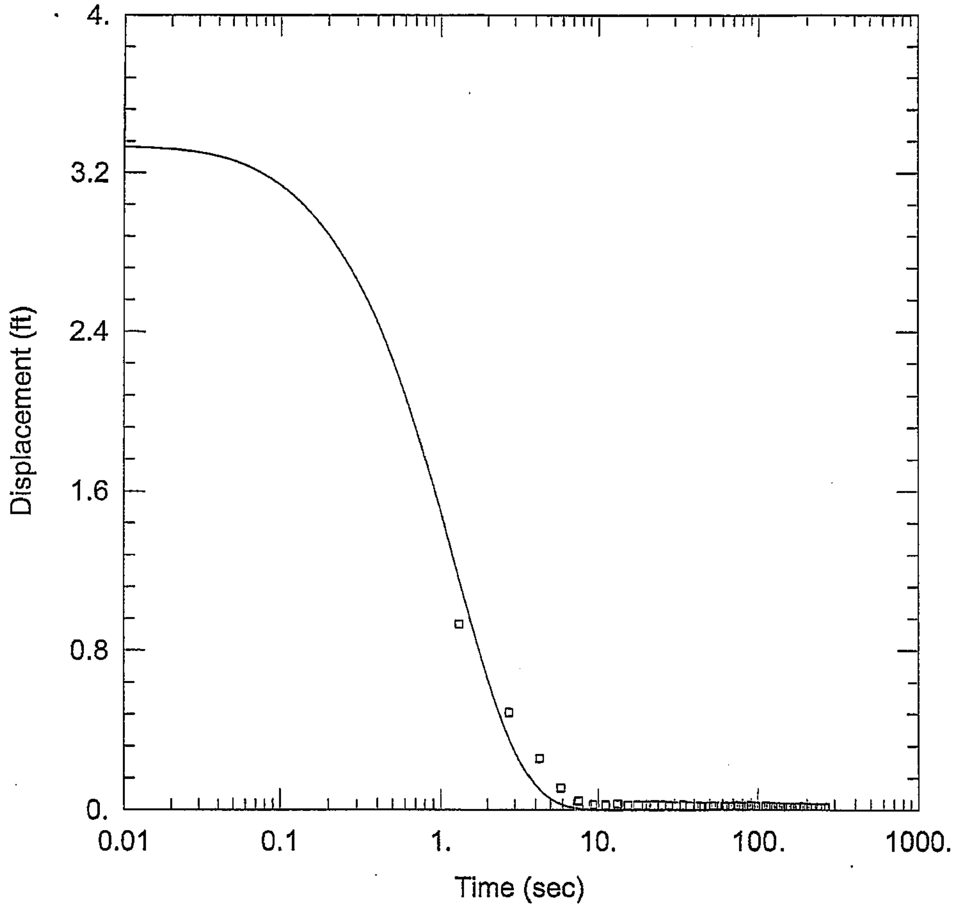
SLUG TEST REPORT

Project Name: TPCOL	Project Number:	Page 1 of 1	
Client: Bechtel	Contractor: MACTEC		
Location: OW-721U	MACTEC Rep: Kim Chaka Smith	Date: 05/15/08	

UNITS			
Length	Feet		
Time	Minutes		
Well Data	Stickup = 3.65' from g.s.		
Static Water Level	4.35' feet From TOC		
Total Well Depth	28.0' feet From TOC		
Static Water Column Height (H) 23.65'	~~28.0'~~ feet 5-15-08		
	Background	Falling Head	Rising Head
Observed Initial Displacement (H_0)	NA		
Saturated Thickness (b)	feet		
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1		
Depth to Top of Well Screen (d)			
Length of Well Screen (L)	10.0' feet		
Radius of Well Casing (rc)	0.083 feet		
Radius of Screen (rw)	0.083 feet		
Radius of Probe (req)			
Radius of Boring (rsk) Skin Effect	0.083 feet		
	Transducer mini Troll Calibrated 4/29/08, Exp. 4/29/09		
Probe Serial Number Sn: 103345			
Slug Data Slug #2			
Length	65.438 inches		
weight	8.811 lbs.		
Diameter	1.662 inches		
Slug Test File	Background	Falling	Rising
File Name	OW-721UBG	OW-721UF	OW-721UR
Start Time	17:00:35	17:11:11	17:22:12 (5/15/08)
End Time	17:07:40	17:15:55	07:17:00 (5/16/08)
Notes	Extended TOC to 5.65' above g.s. Ran Background and Falling head tests from st of in well overnight per Chris Bruce. Ran Rising head test. Started OW-721UR on 05/16/08 am - 5/16/08 07:19:00.		

Rev 0

Prepared by: [handwritten initials] Date: 6-20-08
Checked by: [handwritten initials] Date: 6-20-08



OW-721 U FALLING HEAD 5-15-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-721 U
Test Date: 5-15-08

AQUIFER DATA

Saturated Thickness: 24.75 ft
Anisotropy Ratio (Kz/Kr): 1.

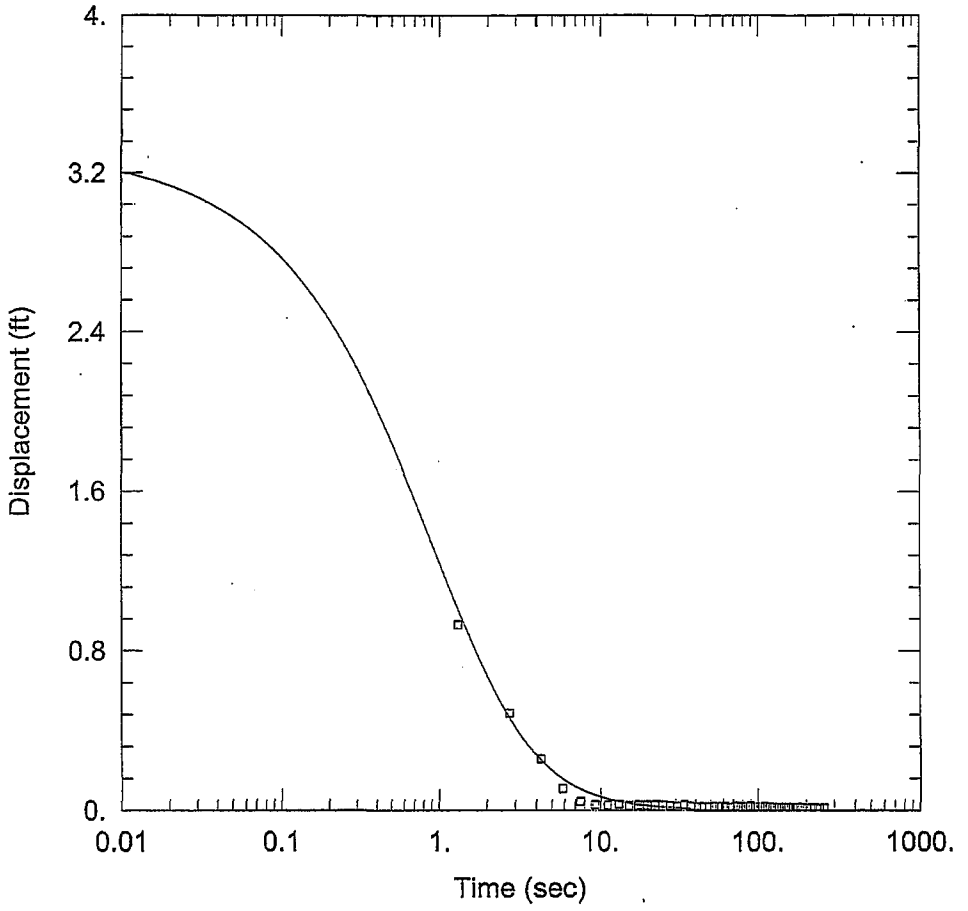
WELL DATA (OW-721 U)

Initial Displacement: 3.338 ft
Total Well Penetration Depth: 26. ft
Casing Radius: 0.083 ft
Static Water Column Height: 24.75 ft
Screen Length: 16.1 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 45.5 ft/day
Le = 1. ft

Prepared by: CHB Date: 6-20-08
Checked by: WB Date: 6-20-08



OW-721 U FALLING HEAD 5-15-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-721 U
Test Date: 5-15-08

AQUIFER DATA

Saturated Thickness: 24.75 ft

WELL DATA (OW-721 U)

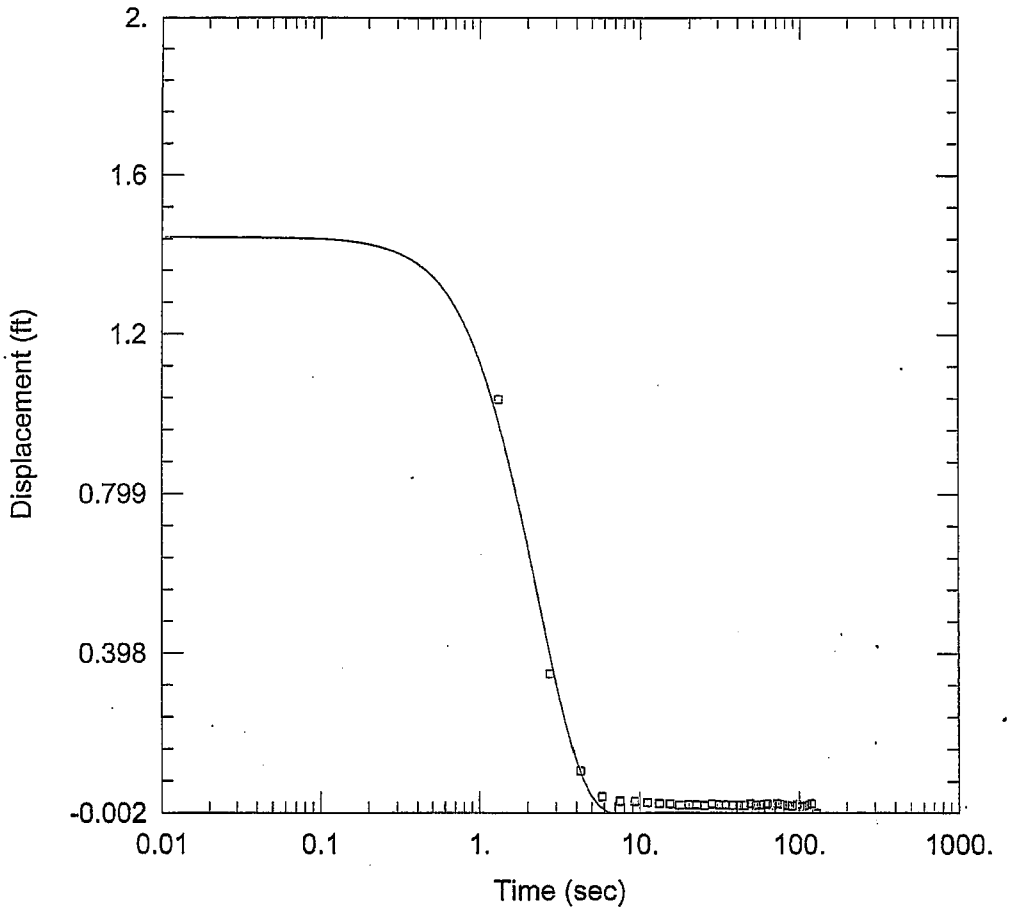
Initial Displacement: 3.338 ft
Total Well Penetration Depth: 26. ft
Casing Radius: 0.083 ft
Static Water Column Height: 24.75 ft
Screen Length: 16.1 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 45.5 ft/day
Kz/Kr = 1.
Ss = 9.486E-5 ft^{-1}

Prepared by: CHS Date 6-20-08
Checked by: [illegible] Date 6-[illegible]



OW-721 U RISING HEAD 5-15-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-721 U
Test Date: 5-15-08

AQUIFER DATA

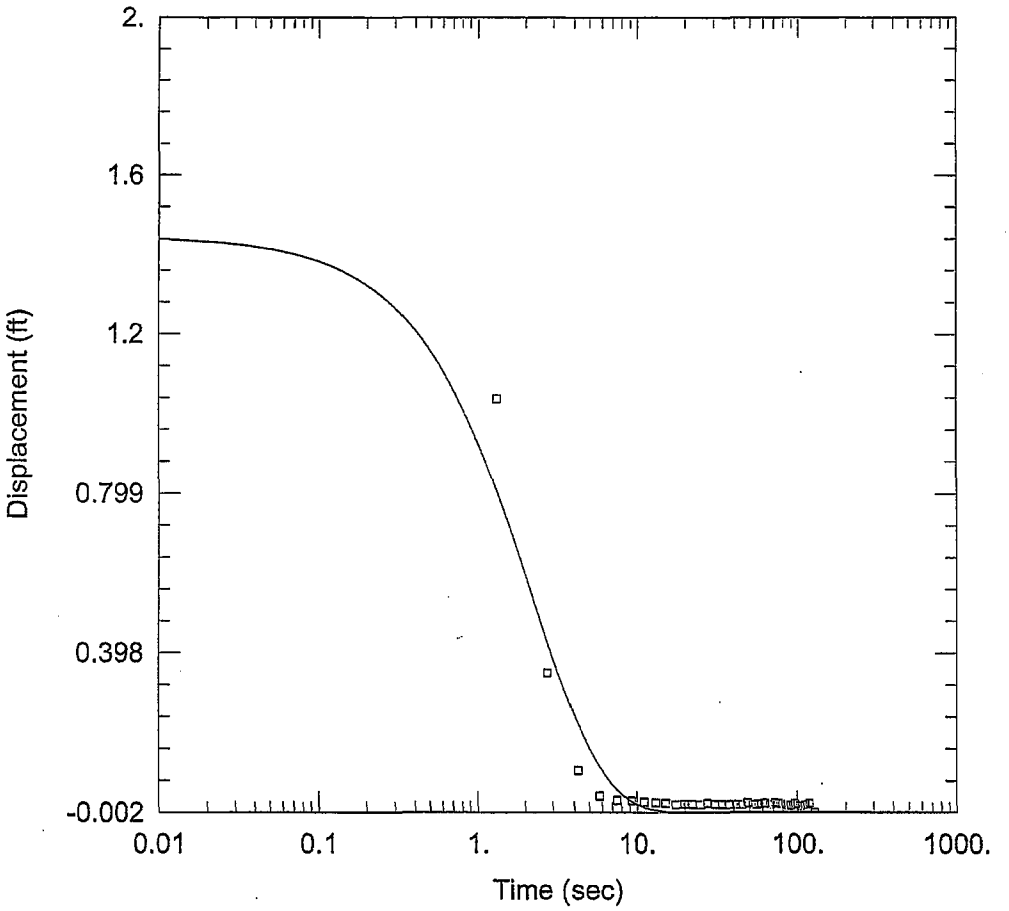
Saturated Thickness: 24.75 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (OW-721 U)

Initial Displacement: 1.444 ft
Total Well Penetration Depth: 26. ft
Casing Radius: 0.083 ft
Static Water Column Height: 24.75 ft
Screen Length: 16.1 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
K = 27.03 ft/day
Solution Method: Springer-Gelhar
Le = 46.33 ft



OW-721 U RISING HEAD 5-15-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-721 U
Test Date: 5-15-08

AQUIFER DATA

Saturated Thickness: 24.75 ft

WELL DATA (OW-721 U)

Initial Displacement: 1.444 ft
Total Well Penetration Depth: 26. ft
Casing Radius: 0.083 ft
Static Water Column Height: 24.75 ft
Screen Length: 16.1 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 32.46 ft/day
Kz/Kr = 1.
Ss = 4.167E-12 ft^{-1}

Checked by: CHS Date: 6-20-08

MACTEC

SLUG TEST REPORT

Project Name: TPCOL	Project Number: 6468-07-1150	Page 1 of 1	
Client: Bechtel	Contractor: MACTEC		
Location: OW-721U	MACTEC Rep: Kim Clarke-Smith	Date: 05/20/08	
UNITS			
Length	Feet		
Time	Minutes		
Well Data	Final Stickup = 3.65' From G.S.		
Static Water Level	4.73' feet From TOC		
Total Well Depth	28.0' feet From TOC		
Static Water Column Height (H)	feet		

	Background	Falling Head	Rising Head
Observed Initial Displacement (H_0)	NA		

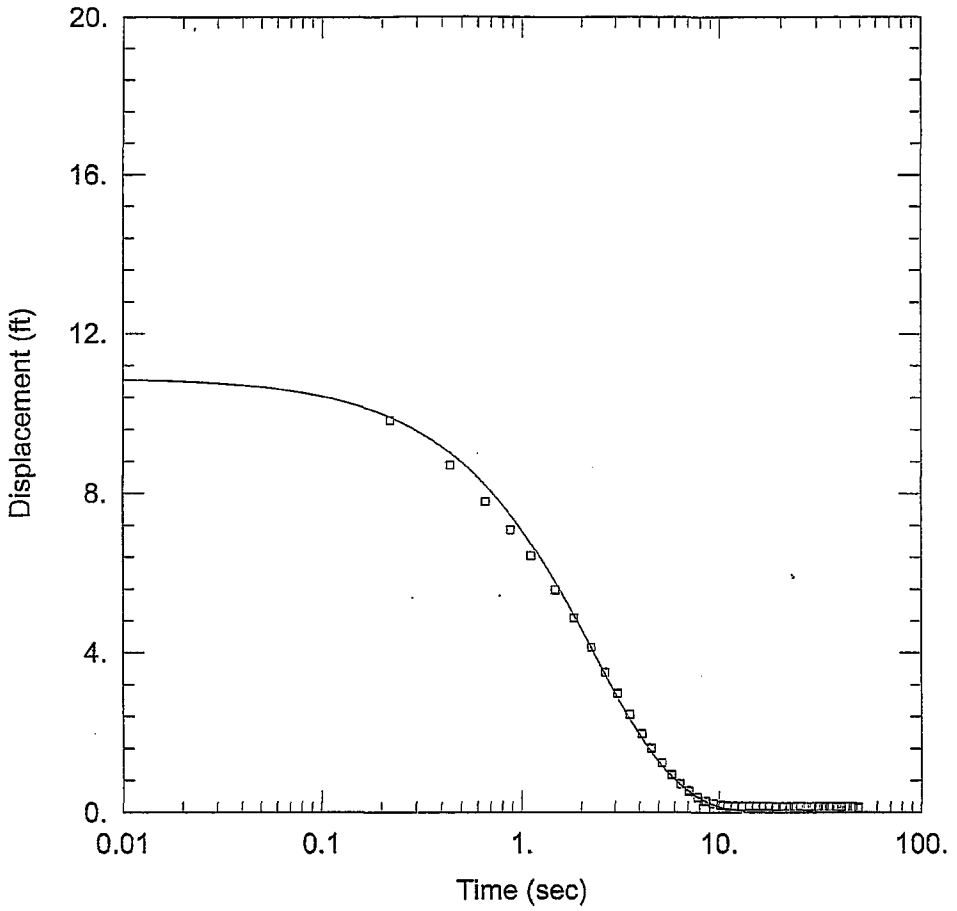
Saturated Thickness (b)	feet
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1
Depth to Top of Well Screen (d)	
Length of Well Screen (L)	10' feet
Radius of Well Casing (rc)	0.083 feet
Radius of Screen (rw)	0.083 feet
Radius of Probe (req)	
Radius of Boring (rsk) Skin Effect	0.083 feet
Probe Serial Number	Mini Troll Transducer probe Calibrated 4/29/08 Exp 4/29/09 SN: 118478 Level Troll® 700 Winsitu
Slug Data	Used pneumatic Slug to perform test.
Length	
weight	
Diameter	

Slug Test File	Background	Falling	Rising
File Name	OW-721UBG	NA	OW-721UR
Start Time	10:33:19		10:42:03
End Time	10:34:46		10:42:56

Notes

Rev 0

Prepared by: CHS Date: 6-20-08
Checked by: MSB Date: 6-20-08



OW-721 U RISING HEAD 5-20-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-721 U
Test Date: 5-20-08

AQUIFER DATA

Saturated Thickness: 24.37 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (OW-721 U)

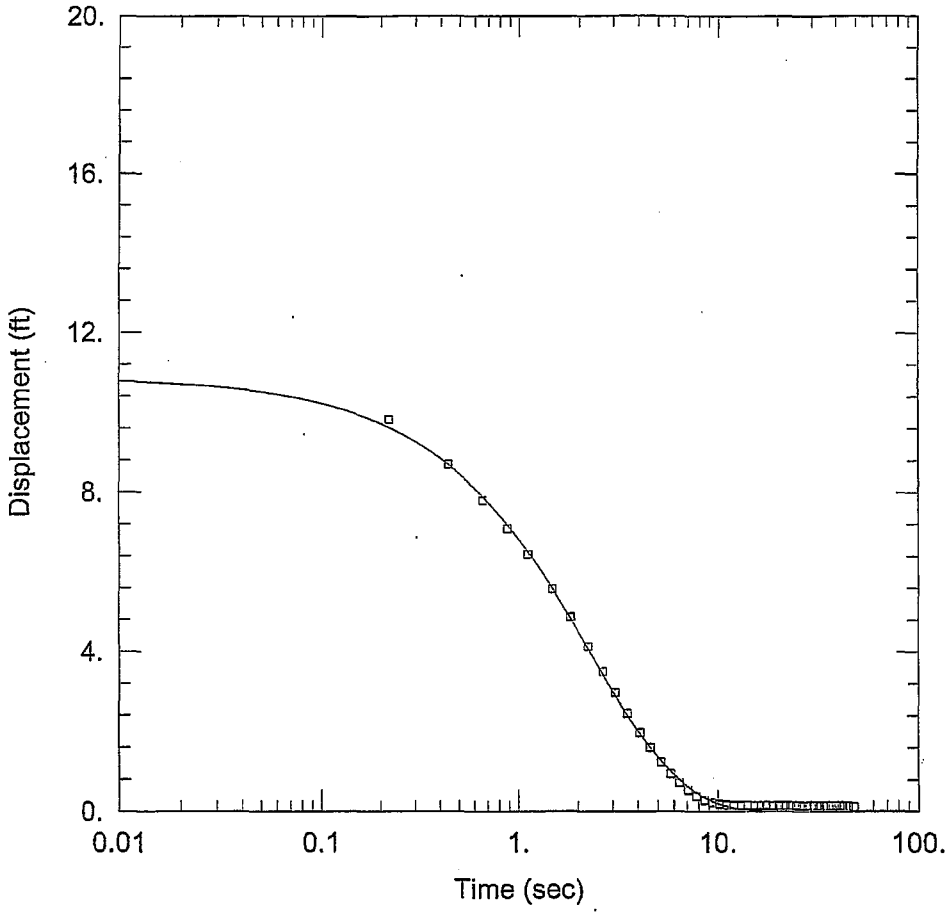
Initial Displacement: 10.88 ft
Total Well Penetration Depth: 26. ft
Casing Radius: 0.083 ft
Static Water Column Height: 24.37 ft
Screen Length: 16.1 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
K = 24.39 ft/day
Solution Method: Springer-Gelhar
Le = 0.1 ft

Prepared by: CHS Date: 6-30-08

Checked by: _____ Date: _____



OW-721 U RISING HEAD 5-20-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-721 U
Test Date: 5-20-08

AQUIFER DATA

Saturated Thickness: 24.37 ft

WELL DATA (OW-721 U)

Initial Displacement: 10.88 ft
Total Well Penetration Depth: 26. ft
Casing Radius: 0.083 ft
Static Water Column Height: 24.37 ft
Screen Length: 16.1 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 32.47 ft/day
Kz/Kr = 1.
Ss = 2.056E-6 ft^{-1}

Checked by: CHB Date: 6-20-08

MACTEC

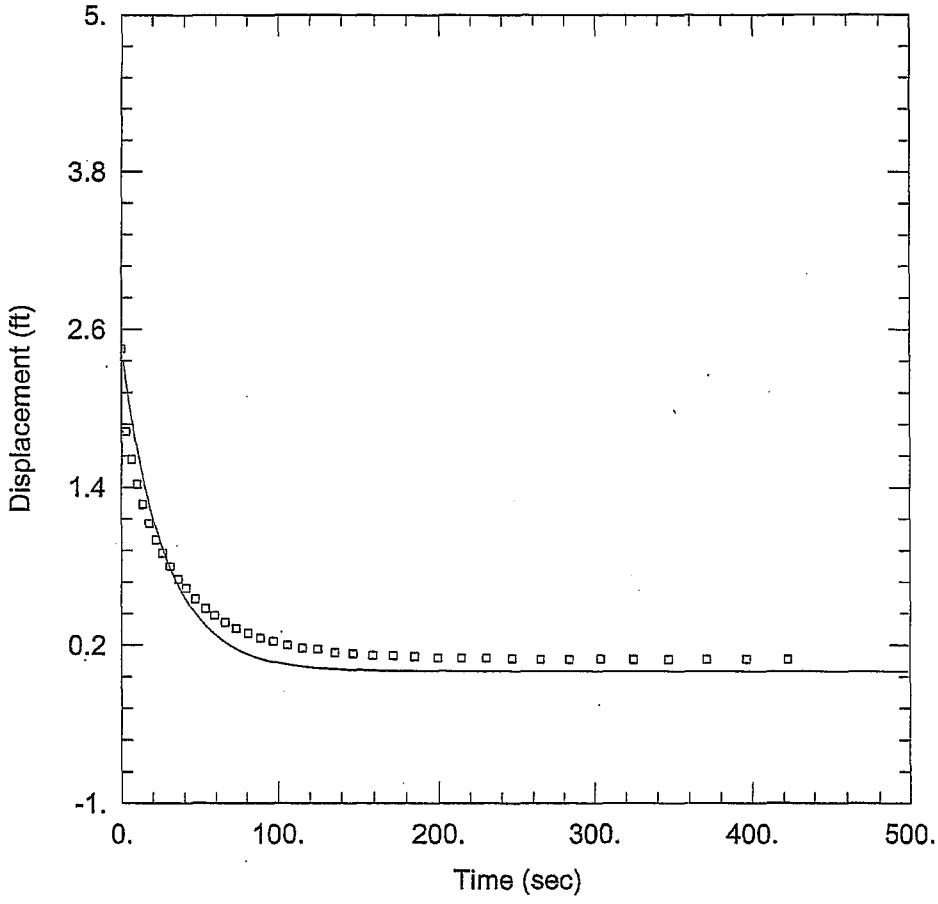
SLUG TEST REPORT

Project Name: TPCoL	Project Number:	Page 1 of 1	
Client: Bechtel	Contractor: MACTEC		
Location: OW-721L	MACTEC Rep: Kim Clarke-Smith	Date: 05/15/08	

UNITS			
Length	Feet		
Time	Minutes		
Well Data	Final stickup = 3.68' from 9.5		
Static Water Level	2.17' feet From ToC		
Total Well Depth	107.62' feet From ToC		
Static Water Column Height (H)	102.43' feet		
	Background	Falling Head	Rising Head
Observed Initial Displacement (H_o)	NA		
Saturated Thickness (b)	feet		
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1		
Depth to Top of Well Screen (d)			
Length of Well Screen (L)	10.0' feet		
Radius of Well Casing (rc)	0.083 feet		
Radius of Screen (rw)	0.083 feet		
Radius of Probe (req)			
Radius of Boring (rsk) Skin Effect	0.083 feet		
	Mini Troll Transducer Calibrated 4/29/08, Exp. 4/29/09		
Probe Serial Number			
SN. 103345			
Slug Data Size #2			
Length	65.438 inches		
weight	8.811 lbs.		
Diameter	1.662 inches		
Slug Test File	Background	Falling	Rising
File Name	OW-721L BG	OW-721L F	OW-721L R
Start Time	15:53:52 KJS 5-15-08	16:02:43	16:21:32
End Time	16:00:33	16:18:56	16:37:20
Notes	Extended ToC to 5.63' above 9.5. KJS 5/15/08. To run slug test.		

Rev 0

Prepared by: CHG Date: 6-20-08
Checked by: LCS Date: 6-20-08



OW-721 L FALLING HEAD TEST 5-15-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-721 L
Test Date: 5-16-08

AQUIFER DATA

Saturated Thickness: 90. ft
Anisotropy Ratio (Kz/Kr): 1.

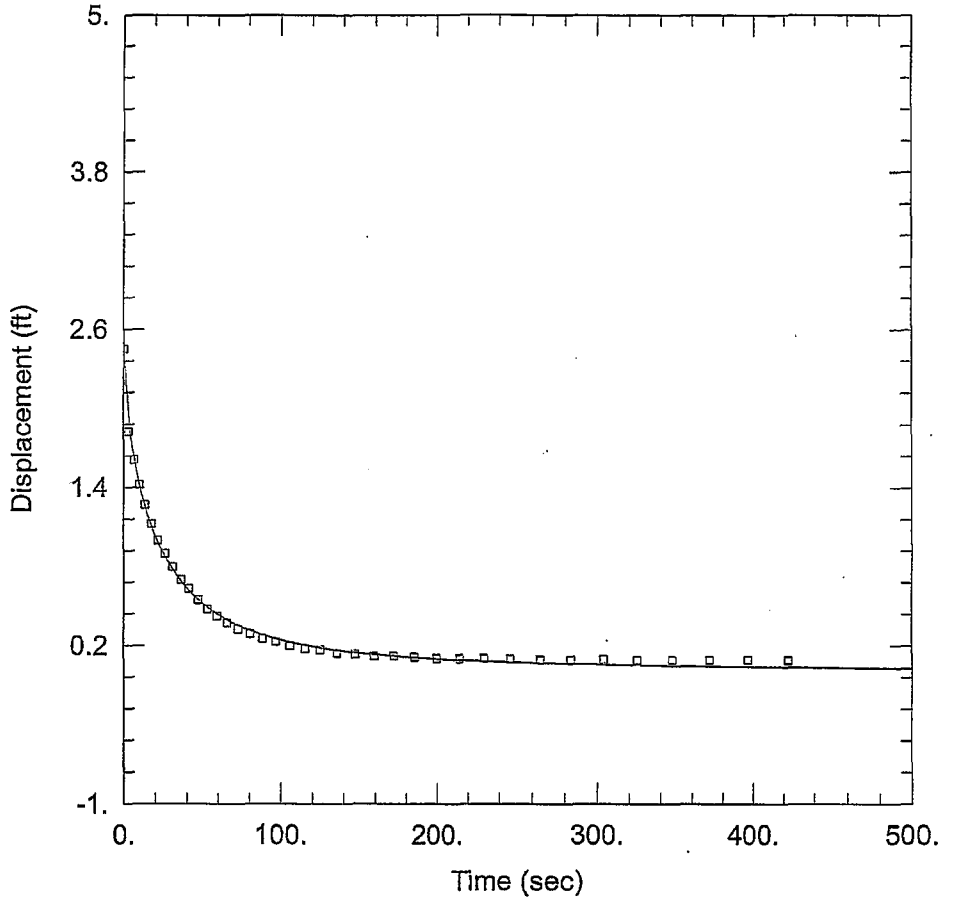
WELL DATA (OW-721 L)

Initial Displacement: 2.451 ft
Total Well Penetration Depth: 109. ft
Casing Radius: 0.083 ft
Static Water Column Height: 110. ft
Screen Length: 17. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined
K = 2.726 ft/day
Solution Method: Butler
Le = 0.1 ft

Prepared by: CAB Date: 6-20-08
Checked by: WSE Date: 6-20-08



OW-721 L FALLING HEAD TEST 5-15-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-721 L
Test Date: 5-16-08

AQUIFER DATA

Saturated Thickness: 90. ft

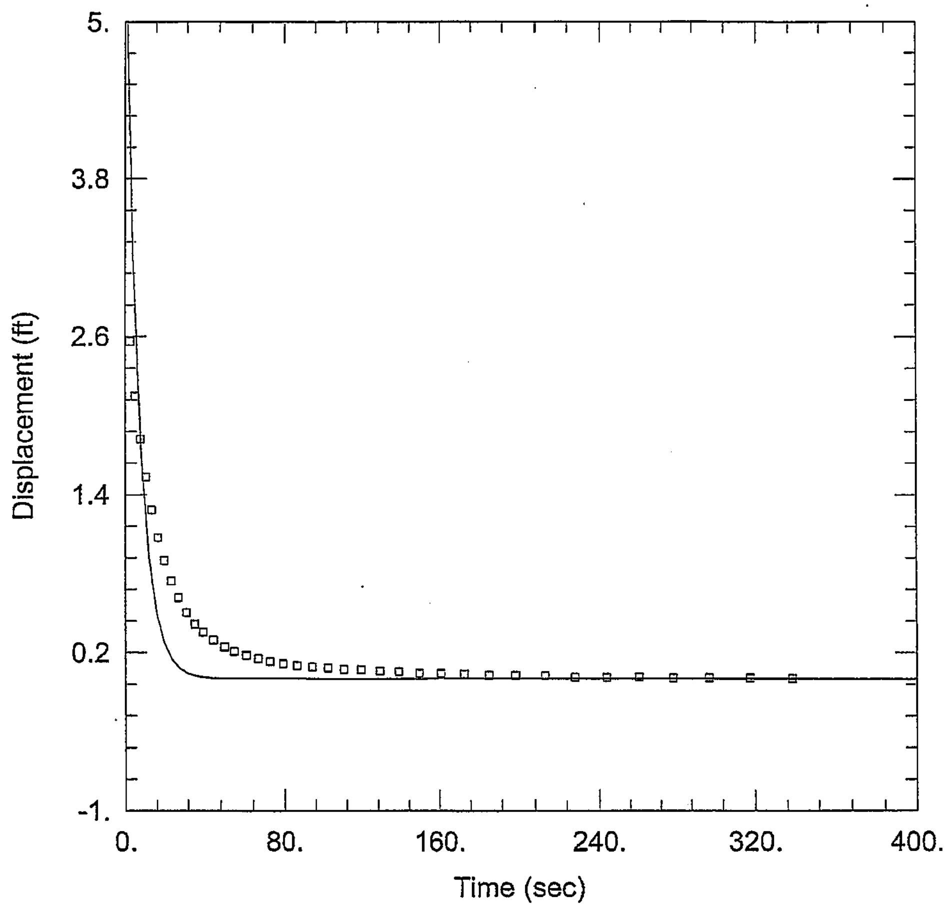
WELL DATA (OW-721 L)

Initial Displacement: 2.451 ft
Total Well Penetration Depth: 109. ft
Casing Radius: 0.083 ft
Static Water Column Height: 110. ft
Screen Length: 17. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined
Kr = 1.13 ft/day
Kz/Kr = 1.
Solution Method: KGS Model
Ss = 0.0002728 ft^{-1}

Prepared by: CHB Date: 6-2008
Checked by: DJSL Date: 6-30-08



OW-721 L RISING HEAD TEST 5-15-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-721 L
Test Date: 5-16-08

AQUIFER DATA

Saturated Thickness: 90. ft
Anisotropy Ratio (Kz/Kr): 1.

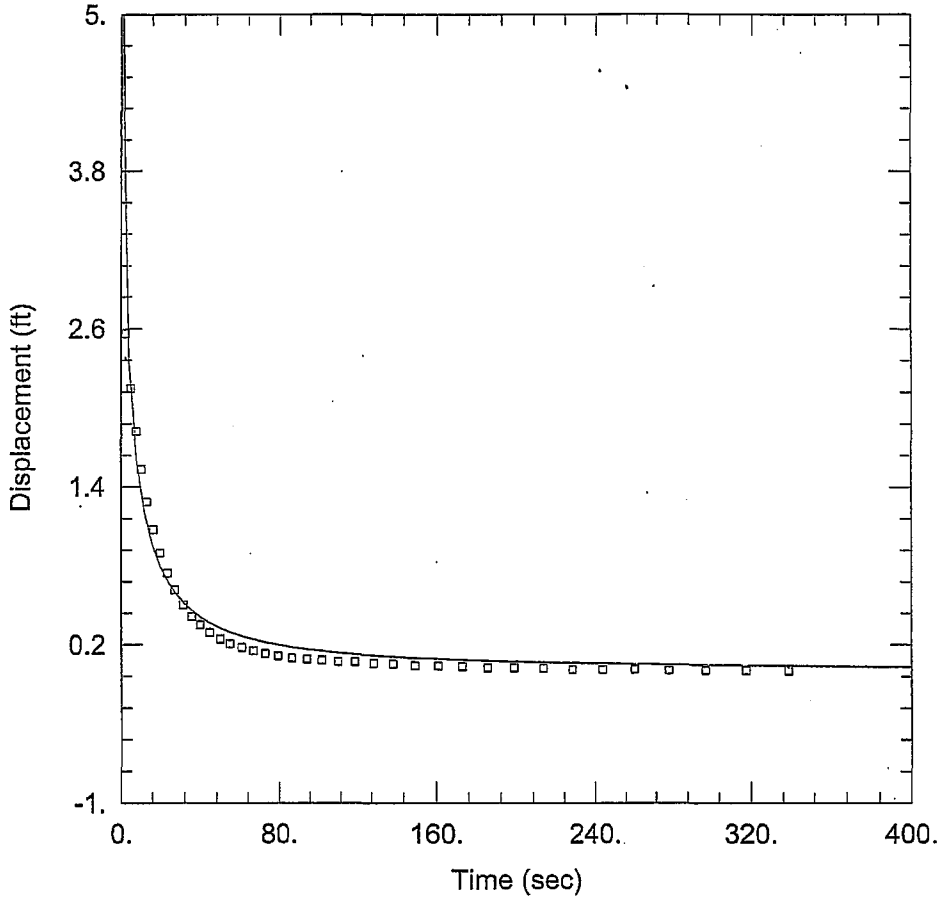
WELL DATA (OW-721 L)

Initial Displacement: 5.904 ft
Total Well Penetration Depth: 109. ft
Casing Radius: 0.083 ft
Static Water Column Height: 110. ft
Screen Length: 17. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler
K = 11.59 ft/day
Le = 0.1 ft

Prepared by: CHS Date: 6-20-08
Checked by: WSH Date: 6-20-08



OW-721 L RISING HEAD TEST 5-15-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-721 L
Test Date: 5-16-08

AQUIFER DATA

Saturated Thickness: 90. ft

WELL DATA (OW-721 L)

Initial Displacement: 5.904 ft
Total Well Penetration Depth: 109. ft
Casing Radius: 0.083 ft
Static Water Column Height: 110. ft
Screen Length: 17. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined
Kr = 2.91 ft/day
Kz/Kr = 1.
Solution Method: KGS Model
Ss = 0.001921 ft^{-1}

Checked by: CHB Date: 6-20-08

MACTEC

SLUG TEST REPORT

Project Name: TPCOL	Project Number: 6468-07-1950	Page 1 of 1	
Client: Bechtel	Contractor: MACTEC		
Location: OW-721L	MACTEC Rep: Kim Chalos-Smith	Date: 05/20/08	
UNITS			
Length	Feet		
Time	Minutes		
Well Data	Final stickup = 3.68' From G.S.		
Static Water Level	1.97' feet From TOC		
Total Well Depth	107.62' feet From TOC		
Static Water Column Height (H)	feet		

	Background	Falling Head	Rising Head
Observed Initial Displacement (H_0)	NA		

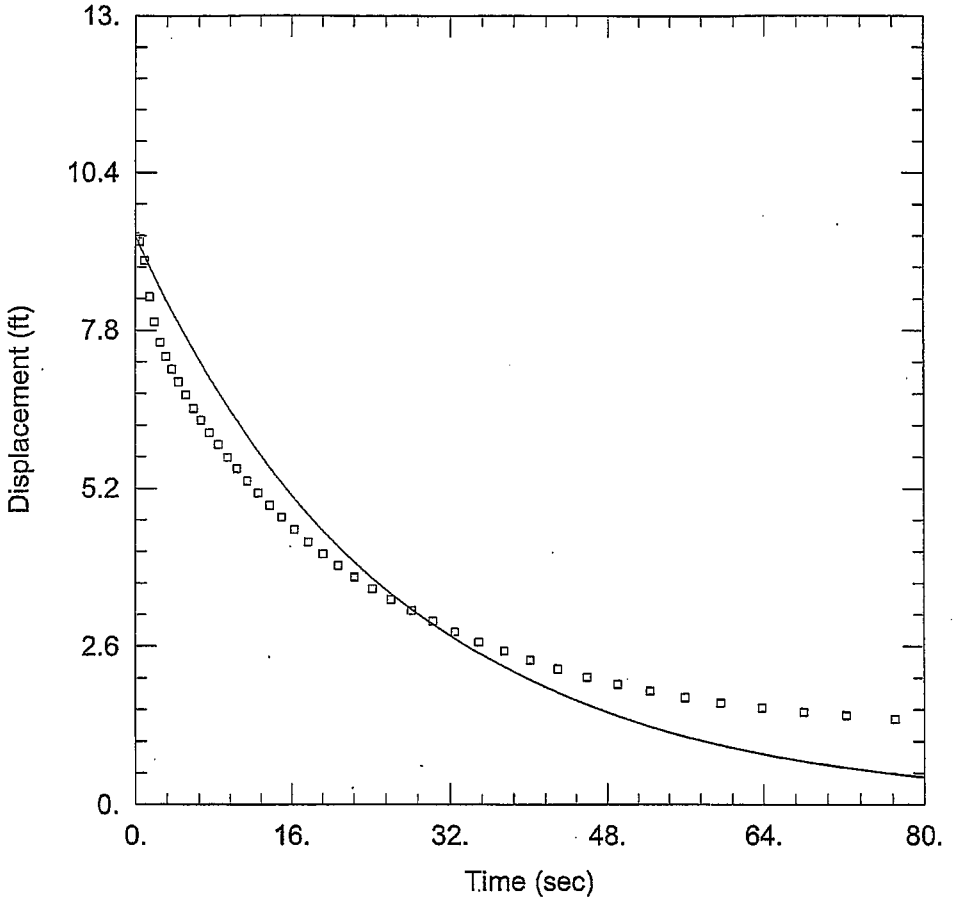
Saturated Thickness (b)	feet
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1
Depth to Top of Well Screen (d)	
Length of Well Screen (L)	10' feet
Radius of Well Casing (rc)	0.083 feet
Radius of Screen (rw)	0.083 feet
Radius of Probe (req)	
Radius of Boring (rsk) Skin Effect	0.083 feet
Probe Serial Number	Mini Troll Transducer probe calibrated 4/29/08 Exp 4/29/09 SN: 118478 Level Troll® 700 WinSitu
Slug Data	Used pneumatic slug to perform test.
Length	
weight	
Diameter	

Slug Test File	Background	Falling	Rising
File Name	OW-721L BG	NA	OW-721LR
Start Time	10:56:02		11:08:52
End Time	11:04:43		11:10:18

Notes

Rev 0

Prepared by: CMB Date: 6-2008
Checked by: [illegible] Date: 6-[illegible]



OW-721 L RISING HEAD TEST 5-20-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-721 L
Test Date: 5-20-08

AQUIFER DATA

Saturated Thickness: 90. ft
Anisotropy Ratio (Kz/Kr): 1.

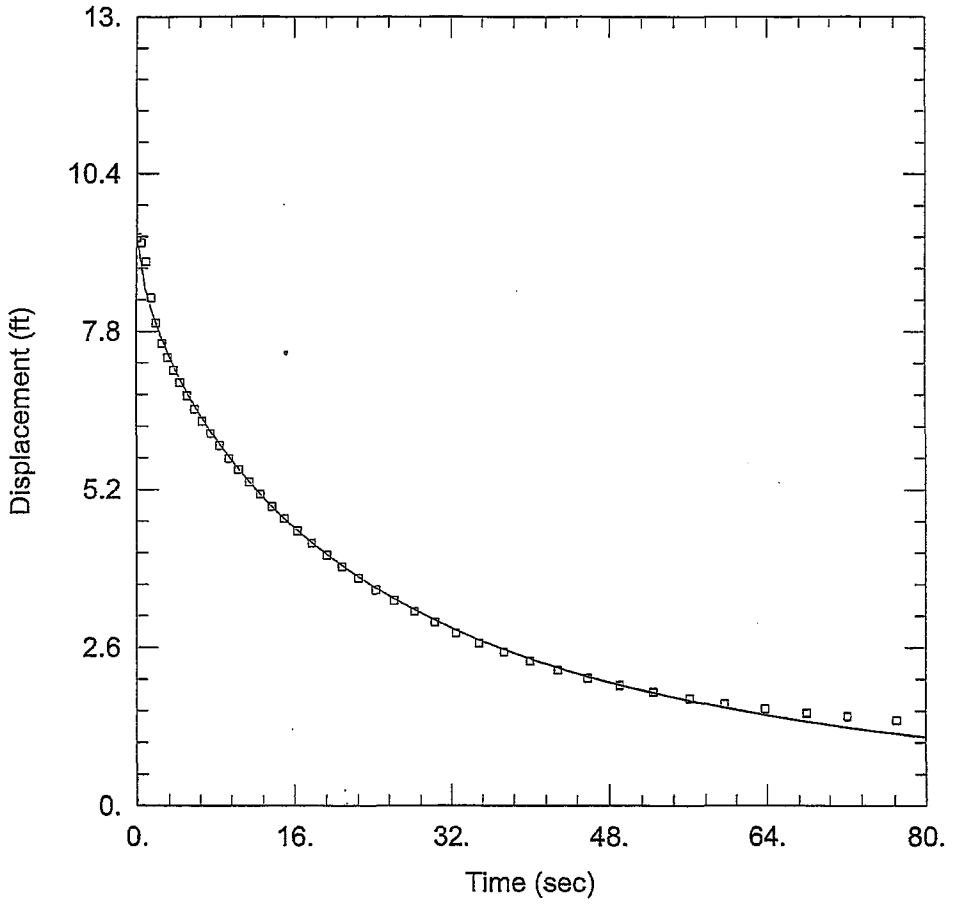
WELL DATA (OW-721 L)

Initial Displacement: 9.341 ft
Total Well Penetration Depth: 109. ft
Casing Radius: 0.083 ft
Static Water Column Height: 110.2 ft
Screen Length: 17. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined
K = 2.839 ft/day
Solution Method: Butler
Le = 0.1 ft

Prepared by: CHS Date: 6-20-08
Checked by: WSL Date: 6-20-08



OW-721 L RISING HEAD TEST 5-20-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-721 L
Test Date: 5-20-08

AQUIFER DATA

Saturated Thickness: 90. ft

WELL DATA (OW-721 L)

Initial Displacement: 9.341 ft
Total Well Penetration Depth: 109. ft
Casing Radius: 0.083 ft
Static Water Column Height: 110.2 ft
Screen Length: 17. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model
Kr = 1.325 ft/day
Kz/Kr = 1.
Ss = 0.0001285 ft^{-1}

Checked by: CHS Date: 6-20-08

MACTEC

SLUG TEST REPORT

Project Name: TPCOL	Project Number:	Page 1 of 1	
Client: Bechtel	Contractor: MACTEC		
Location: OW-735U (KBS-15-08)	MACTEC Rep: Kim Charles-Smith	Date: 5/15/08	
UNITS			
Length	Feet		
Time	Minutes		
Well Data	Stickup = 3.27'		
Static Water Level	4.85' feet From TOC		
Total Well Depth	30.19' feet, From TOC		
Static Water Column Height (H) 28.34'	25.84' feet KJS 5/15/08		

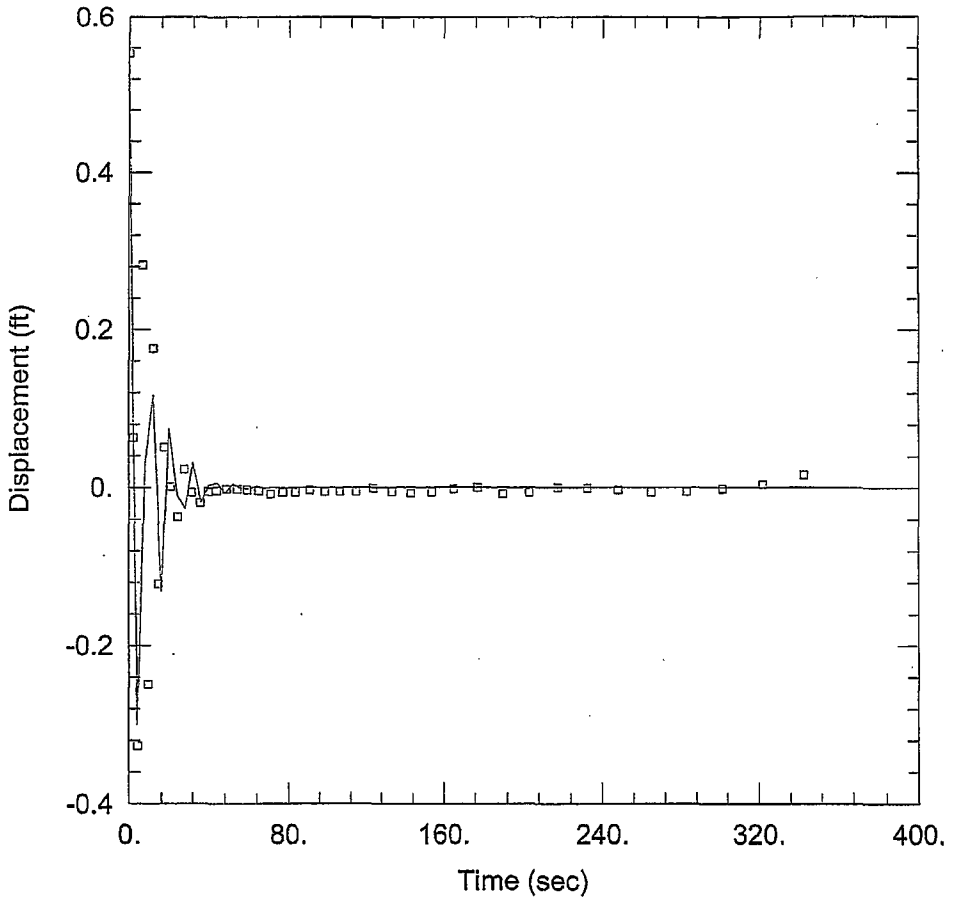
	Background	Falling Head	Rising Head
Observed Initial Displacement (H_0)	NA		

Saturated Thickness (b)	feet
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1
Depth to Top of Well Screen (d)	
Length of Well Screen (L)	10' feet
Radius of Well Casing (rc)	0.083 feet
Radius of Screen (rw)	0.083 feet
Radius of Probe (reg)	
Radius of Boring (rsk) Skin Effect	0.083 feet
Probe Serial Number	Mini Troll Transducer probe Calibrated 4/29/08. Exp. 4/29/09.
SN: 103345	
Slug Data #2	
Length	65.438 inch
weight	8.811 lbs.
Diameter	1.662 inch

Slug Test File	Background	Falling	Rising
File Name	OW-735UBG	OW-735UF	OW-735UR
Start Time	10:16:12	~~09:16:14~~ KBS-15-08 10:29:28	~~09:36:56~~ 10:51:38
End Time	10:25:07	10:49:16	11:00:25

Notes: ~~Add PVC extension to Top of casing total Stickup = 5.28'~~

Prepared by: CHB Date: 6-20-08
Checked by: [illegible] Date: 6-20-08



OW-735 U FALLING HEAD TEST 5-15-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-735 U
Test Date: 5/15/2008

AQUIFER DATA

Saturated Thickness: 26.45 ft
Anisotropy Ratio (Kz/Kr): 1.

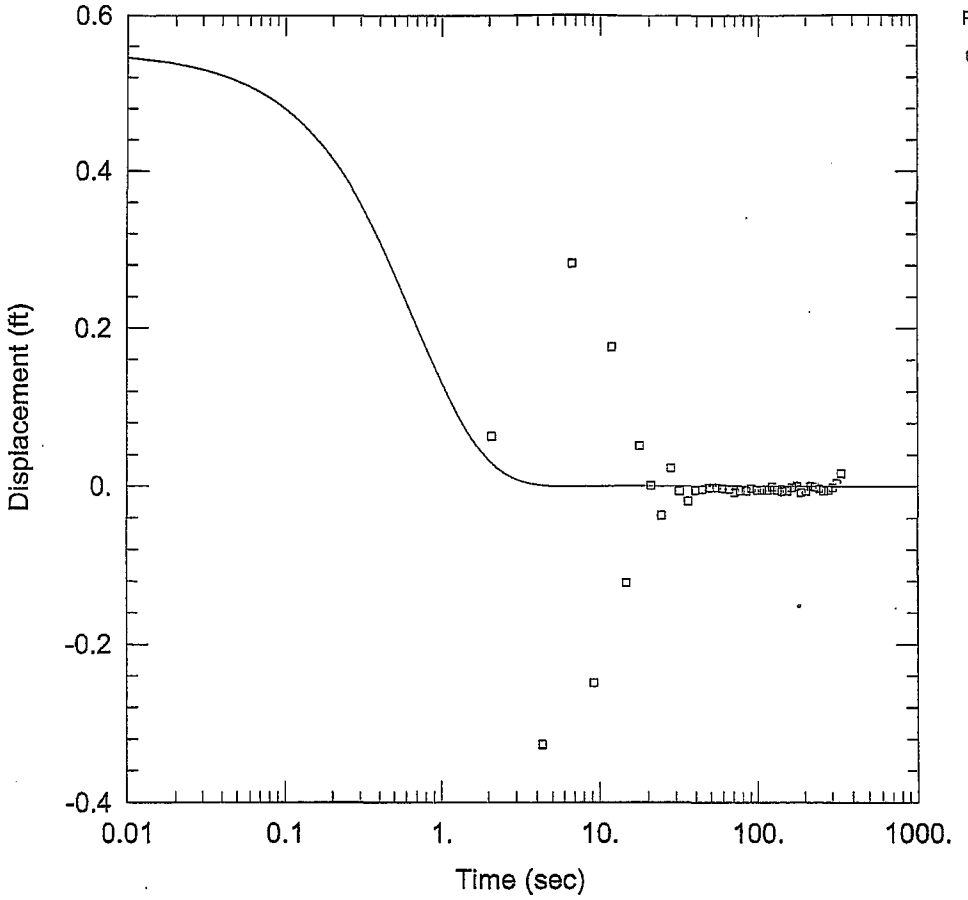
WELL DATA (OW-735 U)

Initial Displacement: 0.553 ft
Total Well Penetration Depth: 28. ft
Casing Radius: 0.083 ft
Static Water Column Height: 26.45 ft
Screen Length: 16. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 319.2 ft/day
Le = 33.28 ft

Prepared by: CHB Date: 6-20-08
Checked by: WSV Date: 6-23-08



OW-735 U FALLING HEAD TEST 5-15-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-735 U
Test Date: 5/15/2008

AQUIFER DATA

Saturated Thickness: 26.45 ft

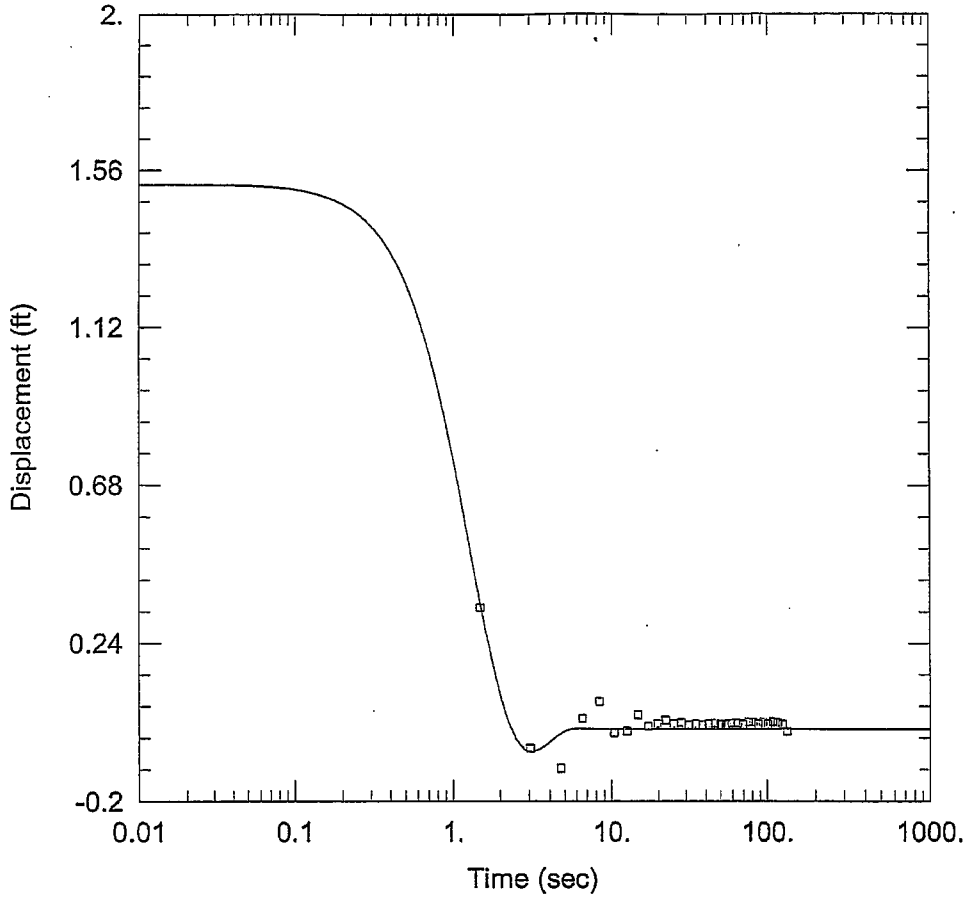
WELL DATA (OW-735 U)

Initial Displacement: 0.553 ft
Total Well Penetration Depth: 28. ft
Casing Radius: 0.083 ft
Static Water Column Height: 26.45 ft
Screen Length: 16. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model
Kr = 109.5 ft/day
Kz/Kr = 1.
Ss = 3.846E-12 ft^{-1}

Prepared by: CAB Date: 6-20-08
Checked by: [illegible] Date: 6/20/08



OW-735 U RISING HEAD TEST 5-15-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-735 U
Test Date: 5/15/2008

AQUIFER DATA

Saturated Thickness: 26.45 ft
Anisotropy Ratio (Kz/Kr): 1.

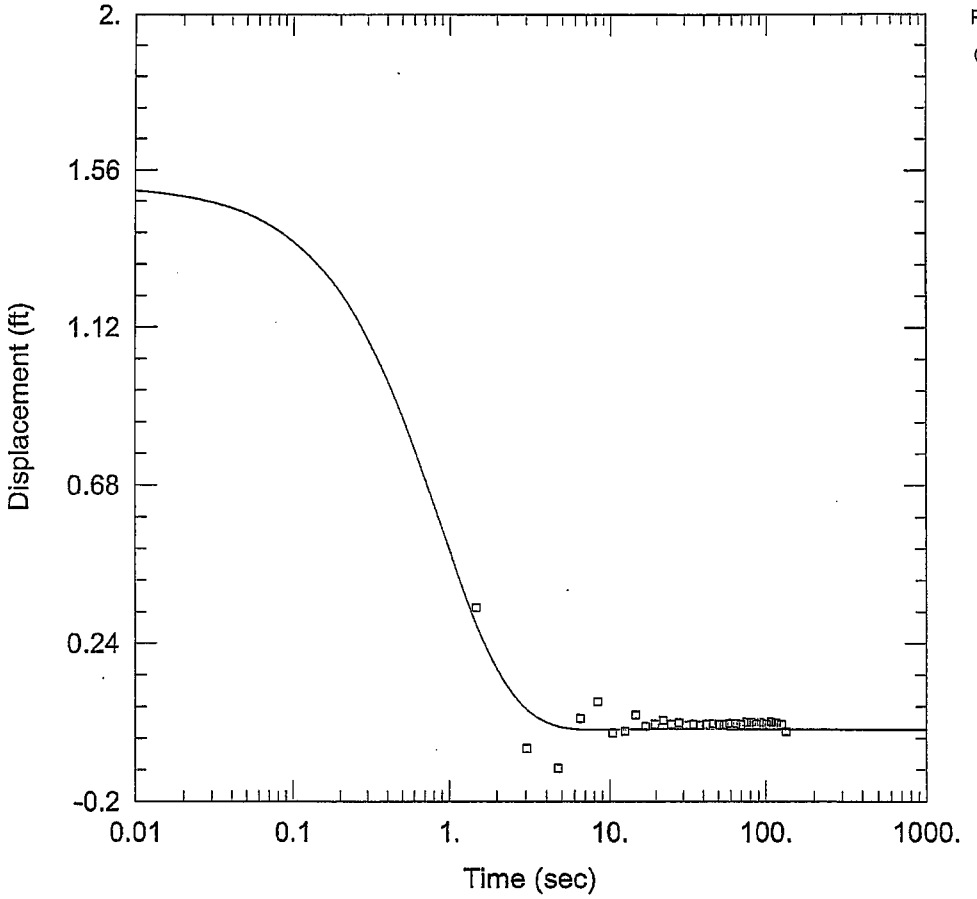
WELL DATA (OW-735 U)

Initial Displacement: 1.519 ft
Total Well Penetration Depth: 28. ft
Casing Radius: 0.083 ft
Static Water Column Height: 26.45 ft
Screen Length: 16. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
K = 58.21 ft/day
Solution Method: Springer-Gelhar
Le = 15.64 ft

Prepared by: CHG Date: 6-20-08
Checked by: WSL Date: 6-20-08



OW-735 U RISING HEAD TEST 5-15-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-735 U
Test Date: 5/15/2008

AQUIFER DATA

Saturated Thickness: 26.45 ft

WELL DATA (OW-735 U)

Initial Displacement: 1.519 ft
Total Well Penetration Depth: 28. ft
Casing Radius: 0.083 ft
Static Water Column Height: 26.45 ft
Screen Length: 16. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 84.68 ft/day
Kz/Kr = 1.
Ss = 3.846E-12 ft^{-1}

Checked by: CHB Date: 6-20-08

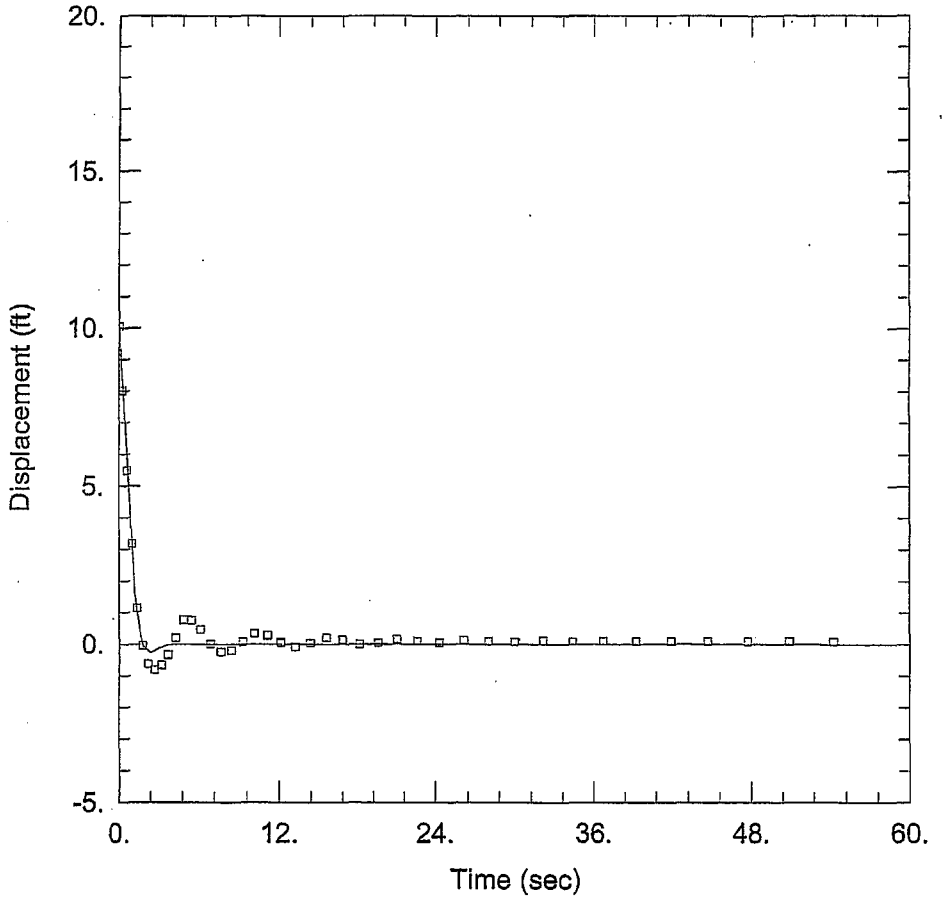
MACTEC

SLUG TEST REPORT

Project Name: TPCOL	Project Number: 6468-07-1950	Page 1 of 1	
Client: Bechtel	Contractor: MACTEC		
Location: 5-20-08 KK TPCOL OW-735U	MACTEC Rep: Kim Charles-Smith	Date: 05/20/08	
UNITS			
Length	Feet		
Time	Minutes		
Well Data	Final stickup = 3.27'		
Static Water Level	4.95' feet From Toc		
Total Well Depth	30.19' feet From Toc		
Static Water Column Height (H)	feet		
	Background	Falling Head	Rising Head
Observed Initial Displacement (H_0)	NA		
Saturated Thickness (b)	feet		
Conductivity Anisotropy (Kw/Kh)	Assume 1 to 1		
Depth to Top of Well Screen (d)			
Length of Well Screen (L)	10' feet		
Radius of Well Casing (rc)	0.083 feet		
Radius of Screen (rw)	0.083 feet		
Radius of Probe (req)			
Radius of Boring (rsk) Skin Effect	0.083 feet		
	mini Troll Transducer probe calibrated 4/29/08 EAP 4/29/09		
Probe Serial Number	SN: 118478 level Troll® 700		
	WinSitu		
Slug Data	used pneumatic slug to perform test.		
Length	SN: 118478 KK 05-20-08		
weight			
Diameter			
Slug Test File	Background	Falling	Rising
File Name	OW-735UBG	NA	OW-735UR
Start Time	08:32:51		08:44:59
End Time	08:37:09		08:49:27
Notes	OW-735UR	OW-735UR	OW-735UR
	08:53:57	08:59:20	09:03:23
	08:57:33	09:00:15	09:04:20

Rev 0

Prepared by: CHB Date: 6-20-08
Checked by: WS Date: 6-20-08



OW-735 U RISING HEAD TEST 5-20-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-735 U
Test Date: 5/15/2008

AQUIFER DATA

Saturated Thickness: 26.35 ft
Anisotropy Ratio (Kz/Kr): 1.

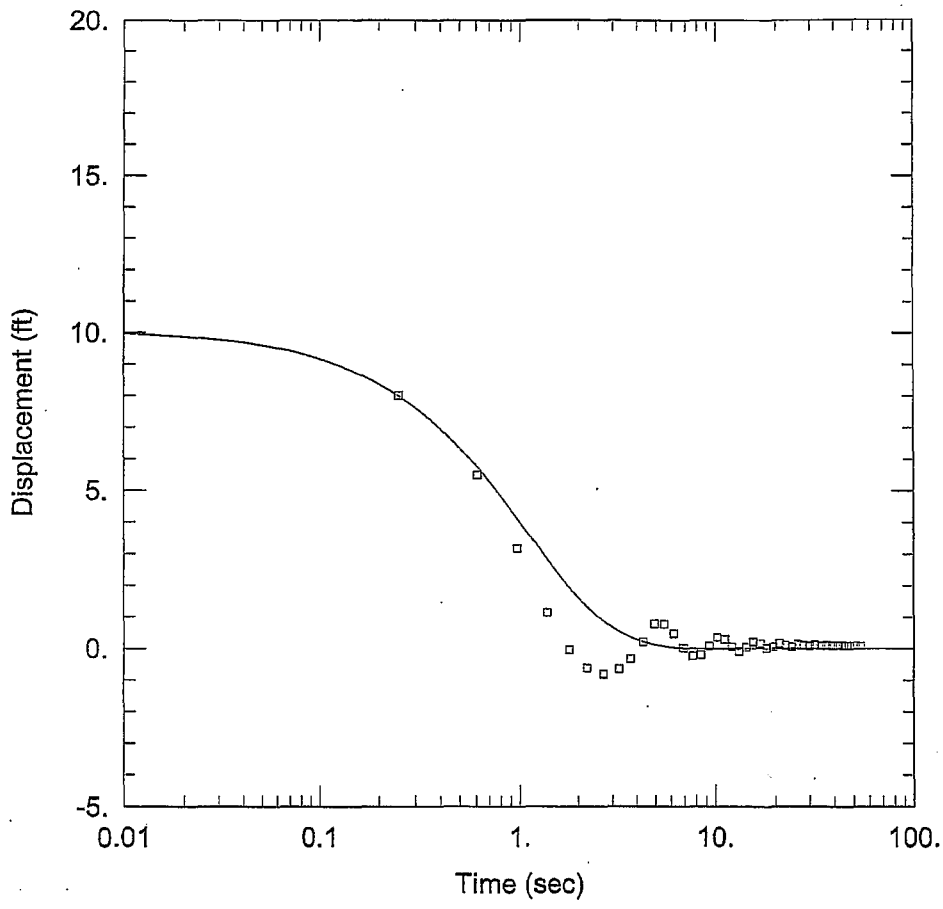
WELL DATA (OW-735 U)

Initial Displacement: 10.05 ft
Total Well Penetration Depth: 28. ft
Casing Radius: 0.083 ft
Static Water Column Height: 26.35 ft
Screen Length: 16. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 80.18 ft/day
Le = 7.402 ft

Prepared by: CWS Date: 6-20-08
Checked by: WSC Date: 6-20-08



OW-735 U RISING HEAD TEST 5-20-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-735 U
Test Date: 5/15/2008

AQUIFER DATA

Saturated Thickness: 26.35 ft

WELL DATA (OW-735 U)

Initial Displacement: 10.05 ft
Total Well Penetration Depth: 28. ft
Casing Radius: 0.083 ft
Static Water Column Height: 26.35 ft
Screen Length: 16. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 70.7 ft/day
Kz/Kr = 1.
Ss = 2.291E-10 ft^{-1}

Checked by: CHB Date: 6-20-08

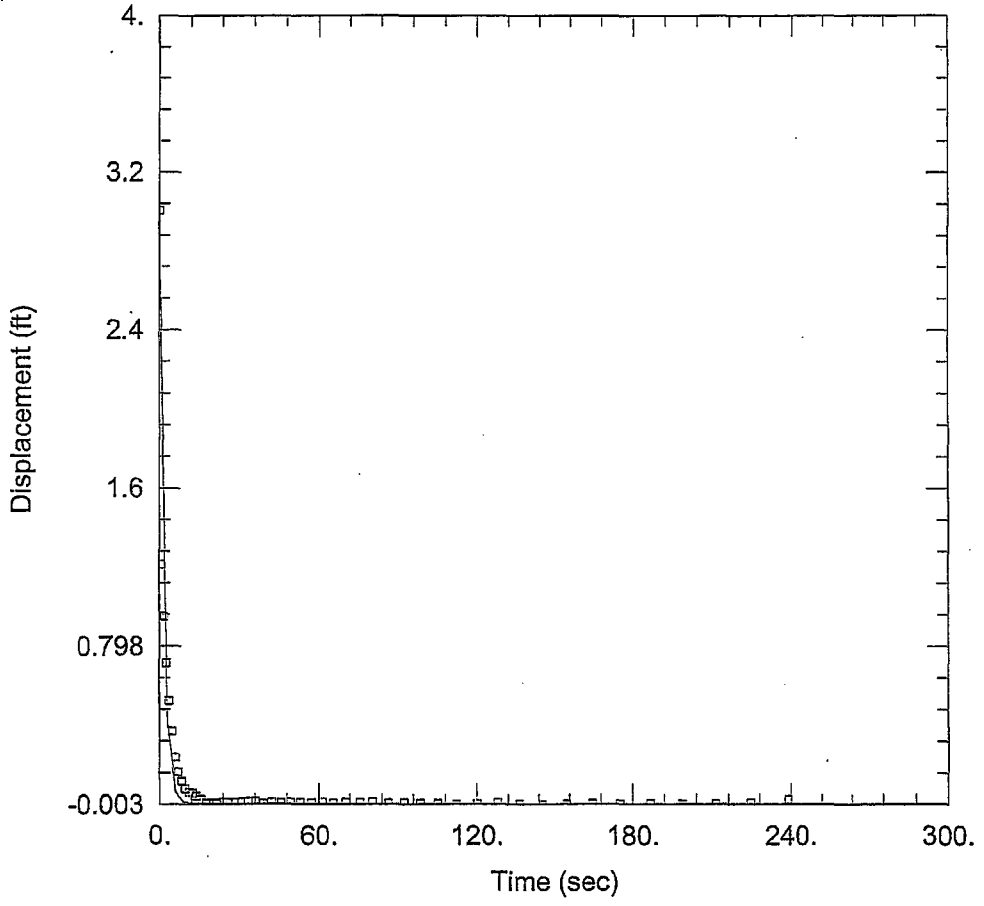
MACTEC

SLUG TEST REPORT

Project Name: TPCOL	Project Number:	Page 1 of 1	
Client: Bechtel	Contractor: MACTEC		
Location: OW-735L	MACTEC Rep: Kim Charles Smith	Date: 05/13/08	
UNITS			
Length	Feet		
Time	Minutes		
Well Data	Final Stickup = 3.58'		
Static Water Level	2.97' feet from TOC		
Total Well Depth 111.68'	~~108.1~~ 5.13-08 feet from ~~g.s.~~ TOC		
Static Water Column Height (H) 108.71'	~~105.13'~~ feet KY KY 5-13-08		
	Background 5-13-08	Falling Head	Rising Head
Observed Initial Displacement (H_0)	NA		
Saturated Thickness (b)	feet		
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1		
Depth to Top of Well Screen (d)	96.9'		
Length of Well Screen (L)	10' feet		
Radius of Well Casing (rc)	0.083 feet		
Radius of Screen (rw)	0.083 feet		
Radius of Probe (req)			
Radius of Boring (rsk) Skin Effect	0.083 feet		
	Probe calibrated 4/29/08 Exp. 4/29/09		
Probe Serial Number SN:	103345 Mini Troll Transducer		
Slug Data #2			
Length	65.438 inches		
weight	8.811 lbs.		
Diameter	1.662 inches		
Slug Test File	Background	Falling	Rising
File Name	OW-735LBG	OW-735LF	OW-735LR
Start Time	16:48:56	17:02:43	17:13:33
End Time	16:58:22	17:06:57	17:15:55
Notes	~~Extended casing to 3.58' above g.s. to run OW-7064 15~~ KY 5/13/08.		

Rev 0

Prepared by: CHS Date: 6-20-08
Checked by: LWS Date: 6-20-08



OW-735 L FALLING HEAD TEST 5-15-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-735 L
Test Date: 5-15-08

AQUIFER DATA

Saturated Thickness: 87. ft
Anisotropy Ratio (Kz/Kr): 1.

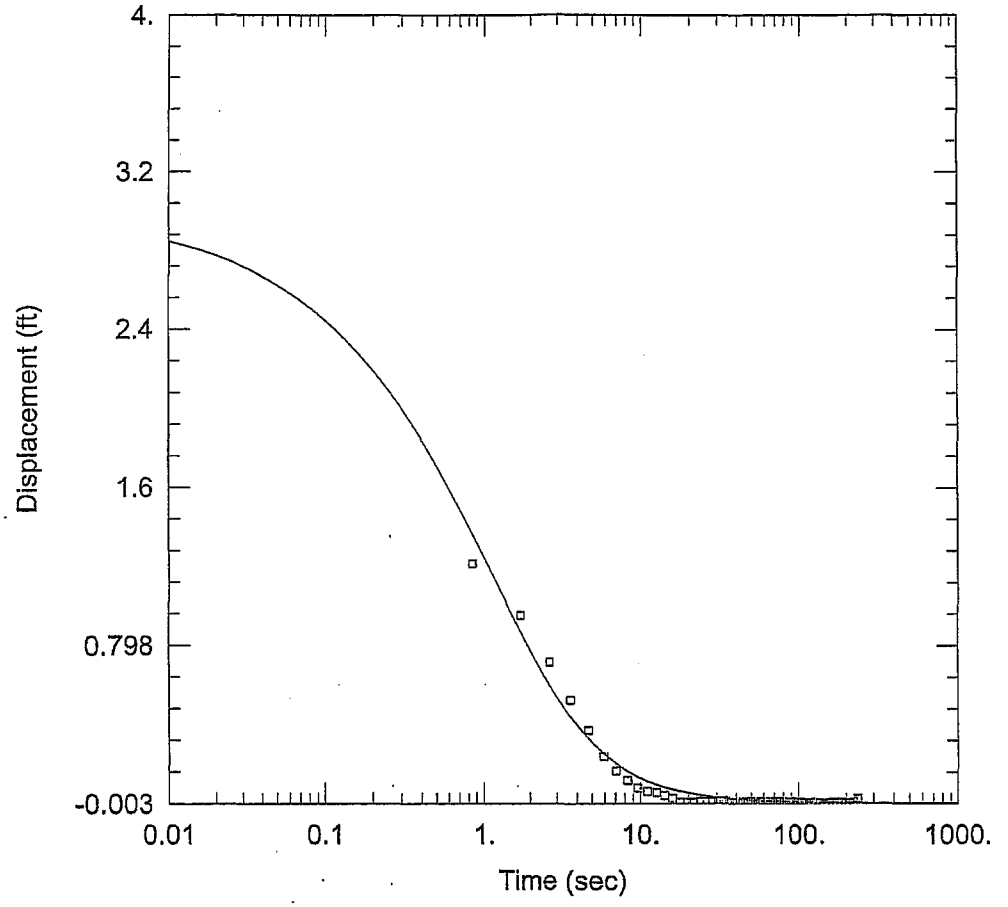
WELL DATA (OW-735 L)

Initial Displacement: 3.004 ft
Total Well Penetration Depth: 110. ft
Casing Radius: 0.083 ft
Static Water Column Height: 110.4 ft
Screen Length: 17.7 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined
K = 49.09 ft/day
Solution Method: Butler
Le = 0.1 ft

Prepared by: CHS Date: 6-20-08
Checked by: LWSC Date: 6-20-08



OW-735 L FALLING HEAD TEST 5-15-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-735 L
Test Date: 5-15-08

AQUIFER DATA

Saturated Thickness: 87. ft

WELL DATA (OW-735 L)

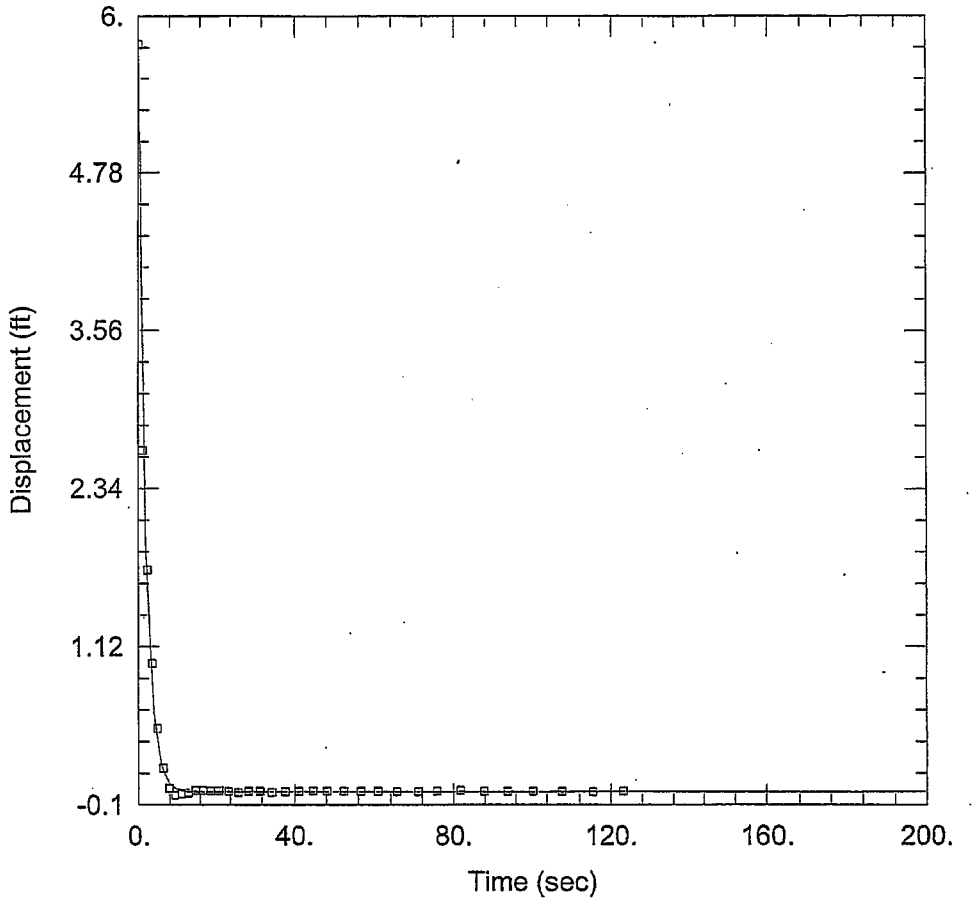
Initial Displacement: 3.004 ft
Total Well Penetration Depth: 110. ft
Casing Radius: 0.083 ft
Static Water Column Height: 110.4 ft
Screen Length: 17.7 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 20.57 ft/day
Kz/Kr = 1.
Ss = 0.0003506 ft^{-1}

Prepared by: CHB Date: 6-20-08
Checked by: [illegible] Date: 6-20-08



OW-735 L RISING HEAD TEST 5-15-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-735 L
Test Date: 5-20-08

AQUIFER DATA

Saturated Thickness: 87. ft
Anisotropy Ratio (Kz/Kr): 1.

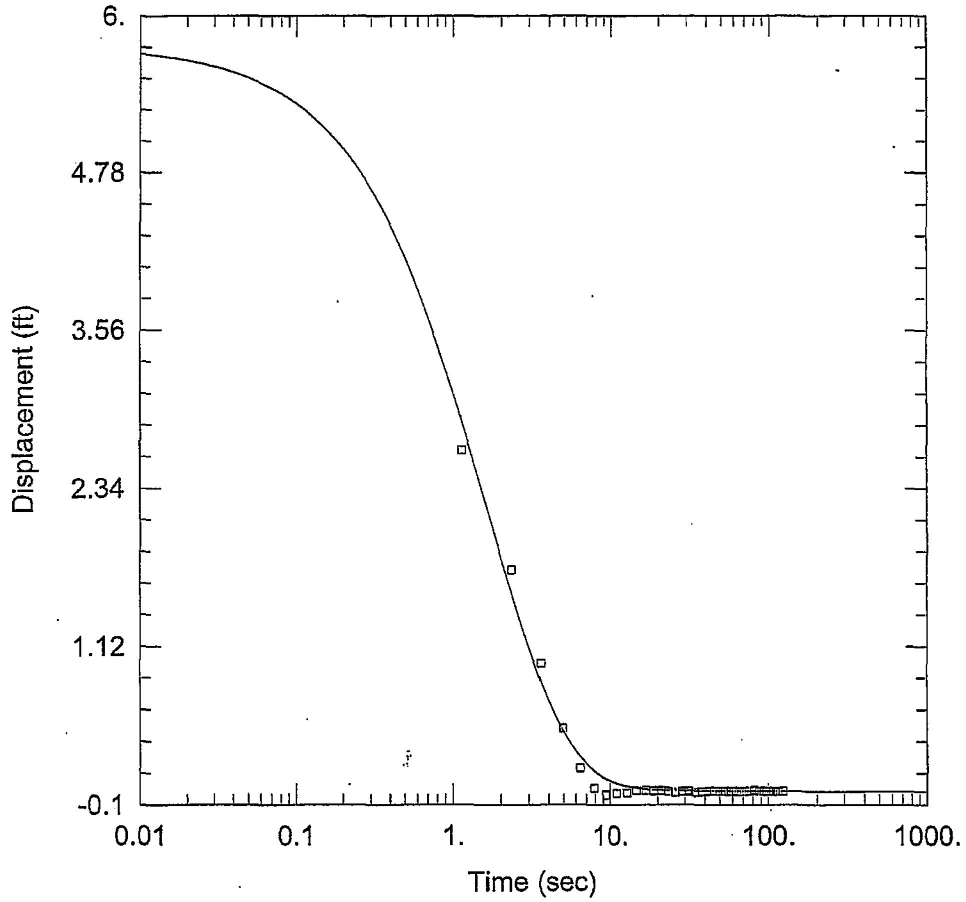
WELL DATA (OW-735 L)

Initial Displacement: 5.779 ft
Total Well Penetration Depth: 110. ft
Casing Radius: 0.083 ft
Static Water Column Height: 110.4 ft
Screen Length: 17.7 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined
K = 42.01 ft/day
Solution Method: Butler
Le = 0.1 ft

Prepared by: CHB Date: 6-20-08
Checked by: [illegible] Date: 6-20-08



OW-735 L RISING HEAD TEST 5-15-08

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Well: OW-735 L
Test Date: 5-20-08

AQUIFER DATA

Saturated Thickness: 87. ft

WELL DATA (OW-735 L)

Initial Displacement: 5.779 ft
Total Well Penetration Depth: 110. ft
Casing Radius: 0.083 ft

Static Water Column Height: 110.4 ft
Screen Length: 17.7 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined

Solution Method: KGS Model

Kr = 32.05 ft/day
Kz/Kr = 1.

Ss = 2.446E-6 ft^{-1}

Checked by: CHB Date: 6-20-08

MACTEC

SLUG TEST REPORT

Project Name: TPCOL	Project Number: 6406-07-1950	Page 1 of 1	
Client: Bechtel	Contractor: MACTEC		
Location: OW-802U	MACTEC Rep: Kim Chals-Smith	Date: 05/20/08	
UNITS			
Length	Feet		
Time	Minutes		
Well Data	Final stickup From g.s. = 3.53'		
Static Water Level	4.60' feet From TOC		
Total Well Depth	29.11' feet From TOC		
Static Water Column Height (H)	feet		

	Background	Falling Head	Rising Head
Observed Initial Displacement (H_0)	NA		

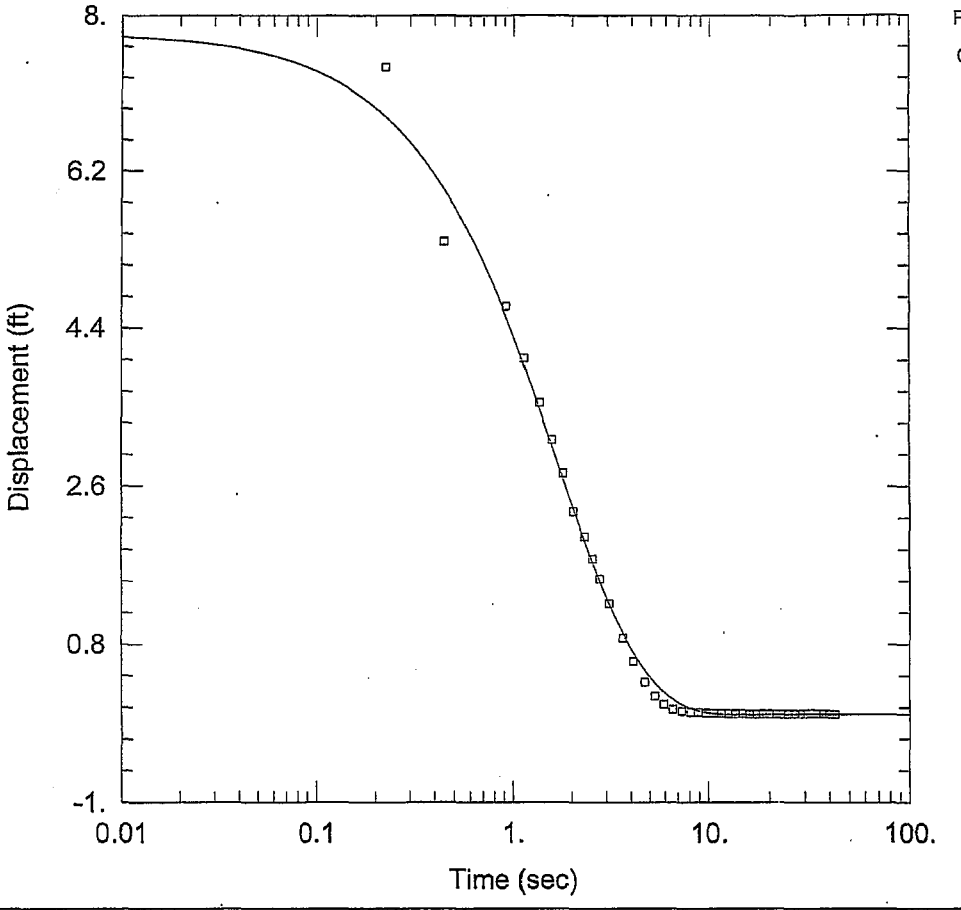
Saturated Thickness (b)	feet
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1
Depth to Top of Well Screen (d)	
Length of Well Screen (L)	10' feet
Radius of Well Casing (rc)	0.083 feet
Radius of Screen (rw)	0.083 feet
Radius of Probe (req)	
Radius of Boring (rsk) Skin Effect	0.083 feet
Probe Serial Number	Mini Troll Transducer probe calibrated 4/29/08. Expires 4/29/09. Level troll® 700 SN: 118478 Winsitu
Slug Data	Used pneumatic Slug to perform test
Length	
weight	
Diameter	

Slug Test File	Background	Falling	Rising
File Name	OW-802UBG	NA	OW-802UR
Start Time	16:31:44		16:36:39
End Time	16:33:1618		16:37:26

Notes: KH 5-20-08

Rev 0

Prepared by: CHB Date: 6-20-08
Checked by: LWS Date: 6-20-08



OW-802 U RISING HEAD TEST 5-20-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-802 U
Test Date: 5/20/2008

AQUIFER DATA

Saturated Thickness: 25.8 ft

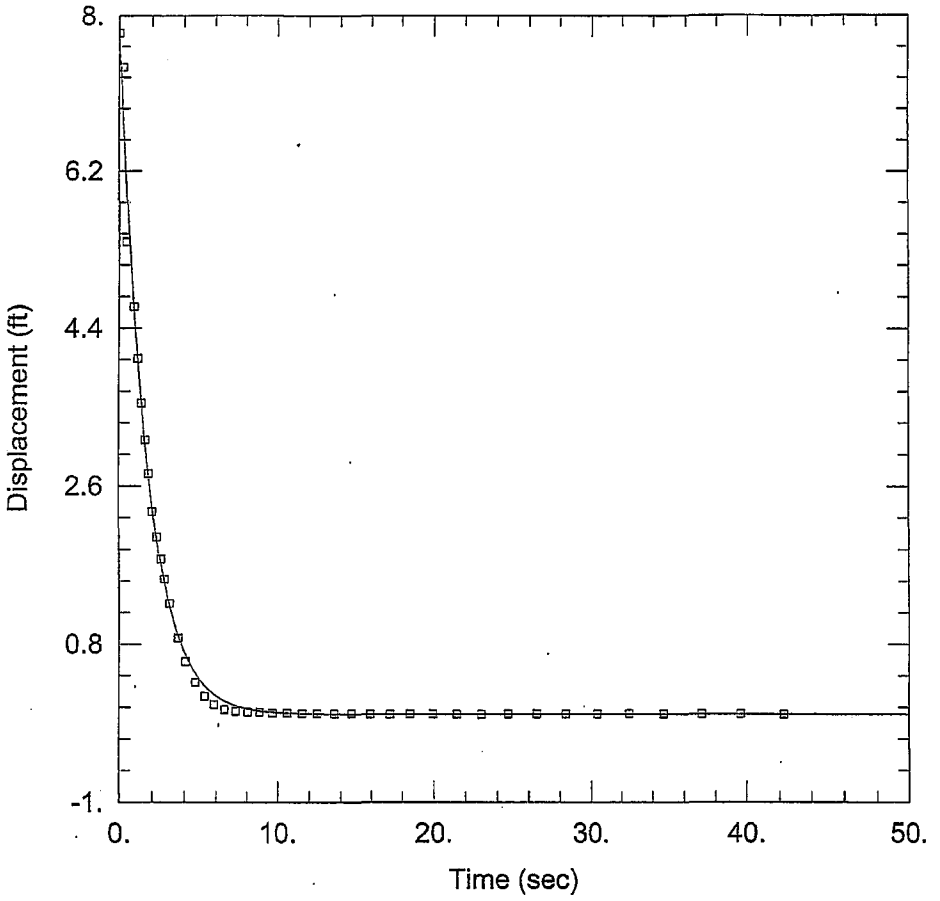
WELL DATA (OW-802 U)

Initial Displacement: 7.799 ft
Total Well Penetration Depth: 27. ft
Casing Radius: 0.083 ft
Static Water Column Height: 25.8 ft
Screen Length: 17. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Kr = 41.06 ft/day
Kz/Kr = 1.
Solution Method: KGS Model
Ss = 3.704E-12 ft^{-1}

Prepared by: CHB Date: 6-20-08
Checked by: LSG Date: 6-20-08



OW-802 U RISING HEAD TEST 5-20-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-802 U
Test Date: 5/20/2008

AQUIFER DATA

Saturated Thickness: 25.8 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (OW-802 U)

Initial Displacement: 7.799 ft
Total Well Penetration Depth: 27. ft
Casing Radius: 0.083 ft
Static Water Column Height: 25.8 ft
Screen Length: 17. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 31.9 ft/day
Le = 1.8 ft

Checked by: CHB Date: 6-20-08

MACTEC

SLUG TEST REPORT

Project Name: TPCd	Project Number: 6468-07-1950	Page 1 of 1	
Client: Bechtel	Contractor: MACTEC		
Location: OW-802L	MACTEC Rep: Kim Charles Smith	Date: 05/20/08	
UNITS			
Length	Feet		
Time	Minutes		
Well Data	Final stickup = 3.45'		
Static Water Level	3.06' feet From TOC		
Total Well Depth	112.35' feet From TOC		
Static Water Column Height (H)	feet		

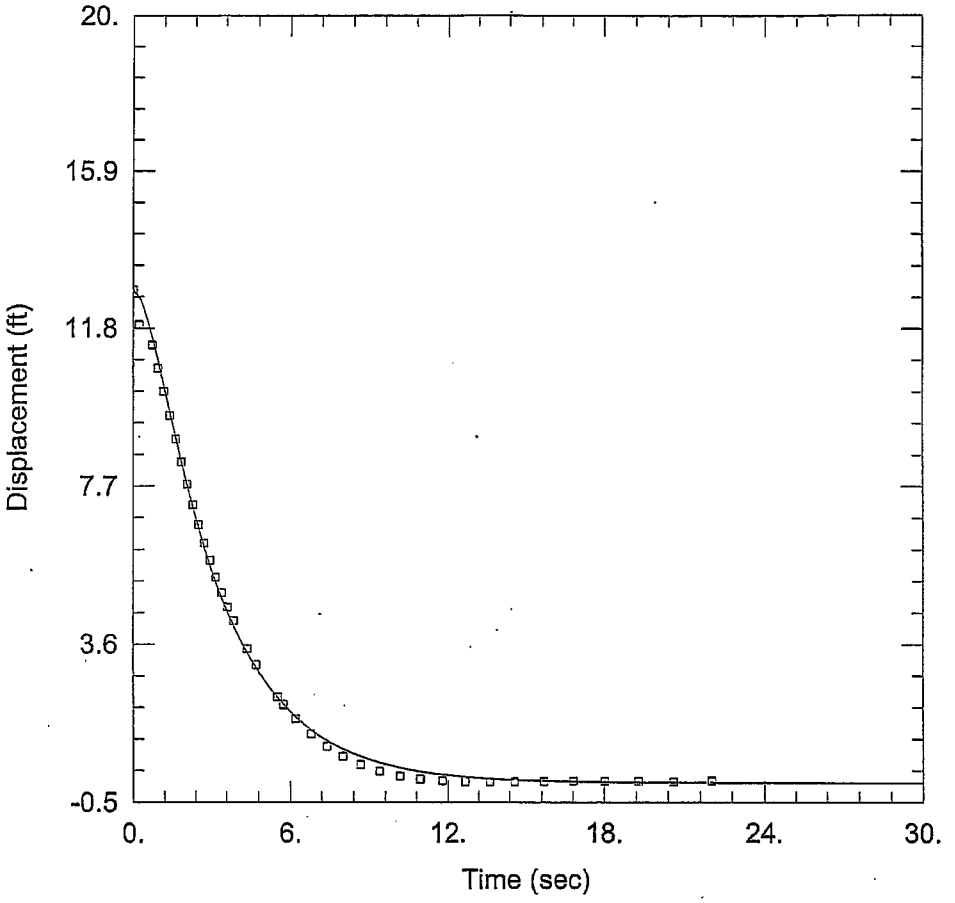
	Background	Falling Head	Rising Head
Observed Initial Displacement (H_0)	NA		

Saturated Thickness (b)	feet
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1
Depth to Top of Well Screen (d)	
Length of Well Screen (L)	10' feet
Radius of Well Casing (rc)	0.083 feet
Radius of Screen (rw)	0.083 feet
Radius of Probe (req)	
Radius of Boring (rsk) Skin Effect	0.083 feet
Probe Serial Number	Mini Troll Transducer calibrated 4/29/08, Exp. 4/29/09 SN: 118478 Level Troll® 700 Winsitu
Slug Data	Used pneumatic slug to perform test.
Length	
weight	
Diameter	

Slug Test File	Background	Falling	Rising
File Name	~~OW-802L BG~~ kfg 8-20-08	NA	OW-802LR
Start Time			17:15:19
End Time			17:15:45

Notes

Prepared by: CHB Date: 6-20-08
Checked by: [illegible] Date: 6-20-08



OW-802 L RISING HEAD TEST 5-20-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-802 L
Test Date: 5/20/2008

AQUIFER DATA

Saturated Thickness: 88. ft
Anisotropy Ratio (Kz/Kr): 1.

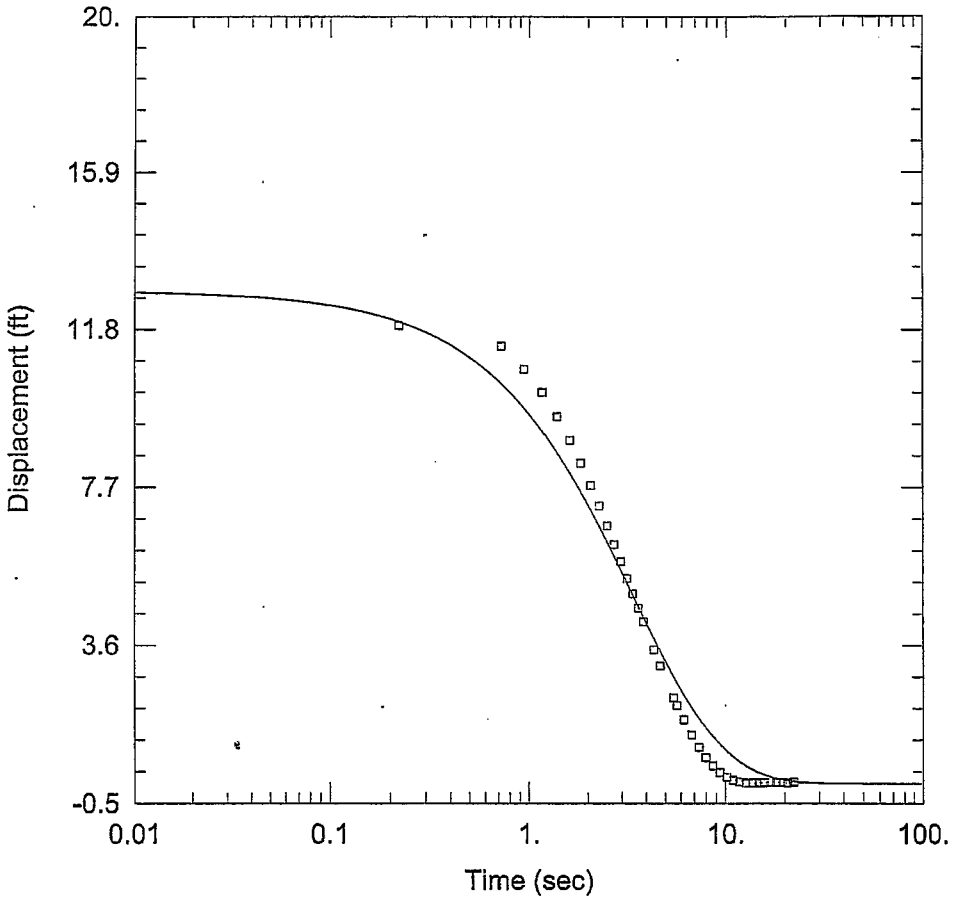
WELL DATA (OW-802 L)

Initial Displacement: 12.8 ft
Total Well Penetration Depth: 110. ft
Casing Radius: 0.083 ft
Static Water Column Height: 110.2 ft
Screen Length: 17. ft
Well Radius: 0.21 ft

SOLUTION

Aquifer Model: Confined
K = 23.28 ft/day
Solution Method: Butler
Le = 58.98 ft

Prepared by: CHB Date: 6-20-08
Checked by: LWG Date: 6-23-08



OW-802 L RISING HEAD TEST 5-20-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-802 L
Test Date: 5/20/2008

AQUIFER DATA

Saturated Thickness: 88. ft

WELL DATA (OW-802 L)

Initial Displacement: 12.8 ft
Total Well Penetration Depth: 110. ft
Casing Radius: 0.083 ft
Static Water Column Height: 110.2 ft
Screen Length: 17. ft
Well Radius: 0.21 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 30.99 ft/day
Kz/Kr = 1.
Ss = 1.26E-20 ft^{-1}

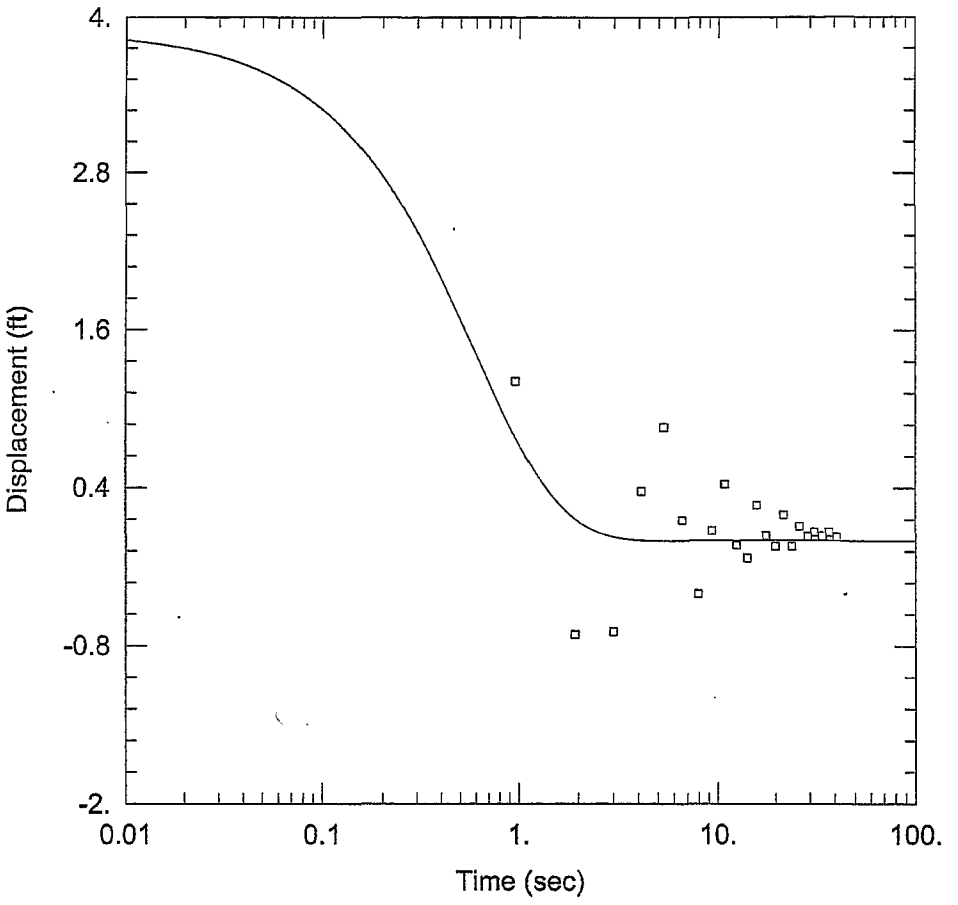
Checked by: CHB Date: 6-20-08

MACTEC

SLUG TEST REPORT

Project Name: Tukey Point COL	6468071950	Page 1 of 1	
Client: Bechtel	Contractor: MACTEC	OW-805U	
Location: Homestead, FL	MACTEC Rep: Kim Chaf-Smith	Date: 06 06 08	
UNITS			
Length	Feet		
Time	Minutes		
Well Data	Stickup = 3.1' from g.s.		
Static Water Level	3.00' feet From ToC.		
Total Well Depth	33.85' feet From ToC		
Static Water Column Height (H)	feet		
	Background	Falling Head	Rising Head
Observed Initial Displacement (H_0)	NA		
Saturated Thickness (b)	feet 18-28 screen		
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1 13 Top sand		
Depth to Top of Well Screen (d)			
Length of Well Screen (L)	10 feet		
Radius of Well Casing (rc)	0.083 feet		
Radius of Screen (rw)	0.083 feet		
Radius of Probe (req)			
Radius of Boring (rsk) Skin Effect	0.083 feet		
	mini Troll Transducer probe calibrated 4/29/08		
Probe Serial Number	Expires 4/29/09 level troll (R) 700		
	Sn: 118478 WinSITU		
Slug Data	Used pneumatic slug to perform test		
Length			
weight			
Diameter			
Slug Test File	Background	Falling	Rising
File Name	OW-805UBG	NA	OW-805UR
Start Time	03:35:15		03:48:34
End Time	03:37:21		03:50:05
Notes	~~2nd Rising test OW-805UR~~ ~~03:54~~ ~~03:54:32~~ ~~03:55:29~~ KS 6-6-08		
Rev 0			

Prepared by: CHS Date: 6-20-08
Checked by: [illegible] Date: 6-20-08



OW-805 U RISING HEAD TEST 6-06-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-805 U
Test Date: 6/06/2008

AQUIFER DATA

Saturated Thickness: 32.3 ft

WELL DATA (0W-805 U)

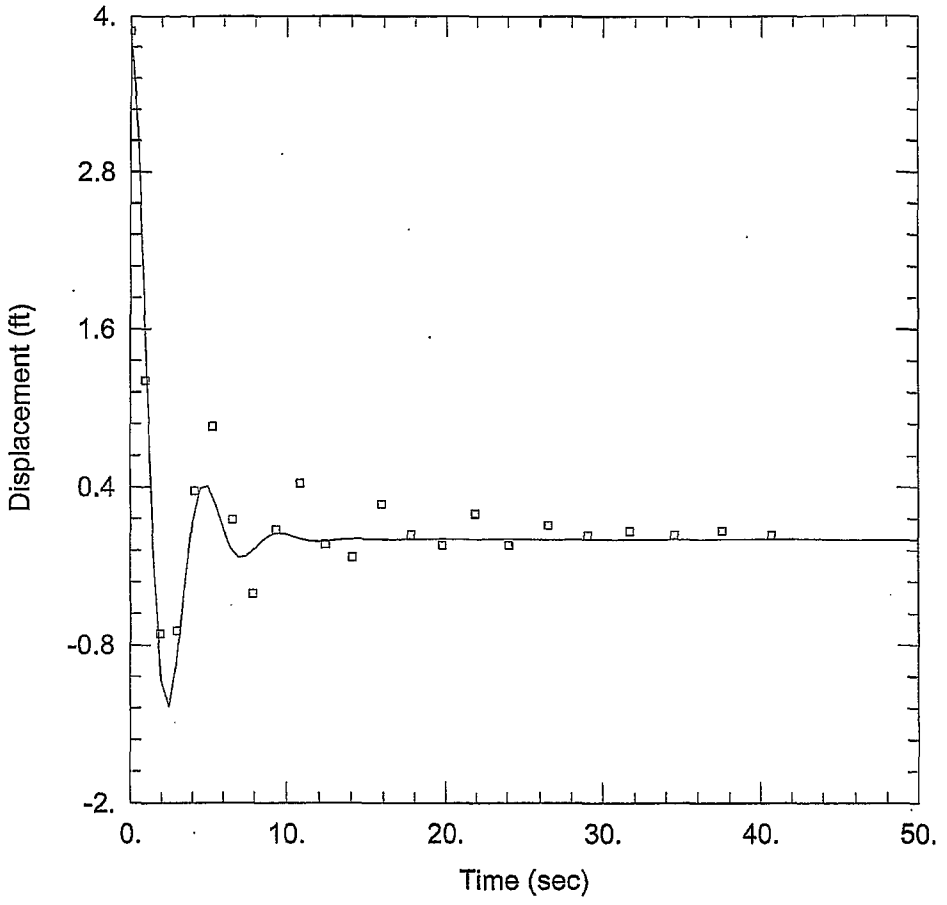
Initial Displacement: 3.886 ft
Total Well Penetration Depth: 30. ft
Casing Radius: 0.083 ft
Static Water Column Height: 29.8 ft
Screen Length: 17. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 101.7 ft/day
Kz/Kr = 1.
Ss = 3.077E-12 ft^{-1}

Prepared by: CHB Date: 6-20-08
Checked by: WSL Date: 6-20-08



OW-805 U RISING HEAD TEST 6-06-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-805 U
Test Date: 6/06/2008

AQUIFER DATA

Saturated Thickness: 32.3 ft
Anisotropy Ratio (Kz/Kr): 1.

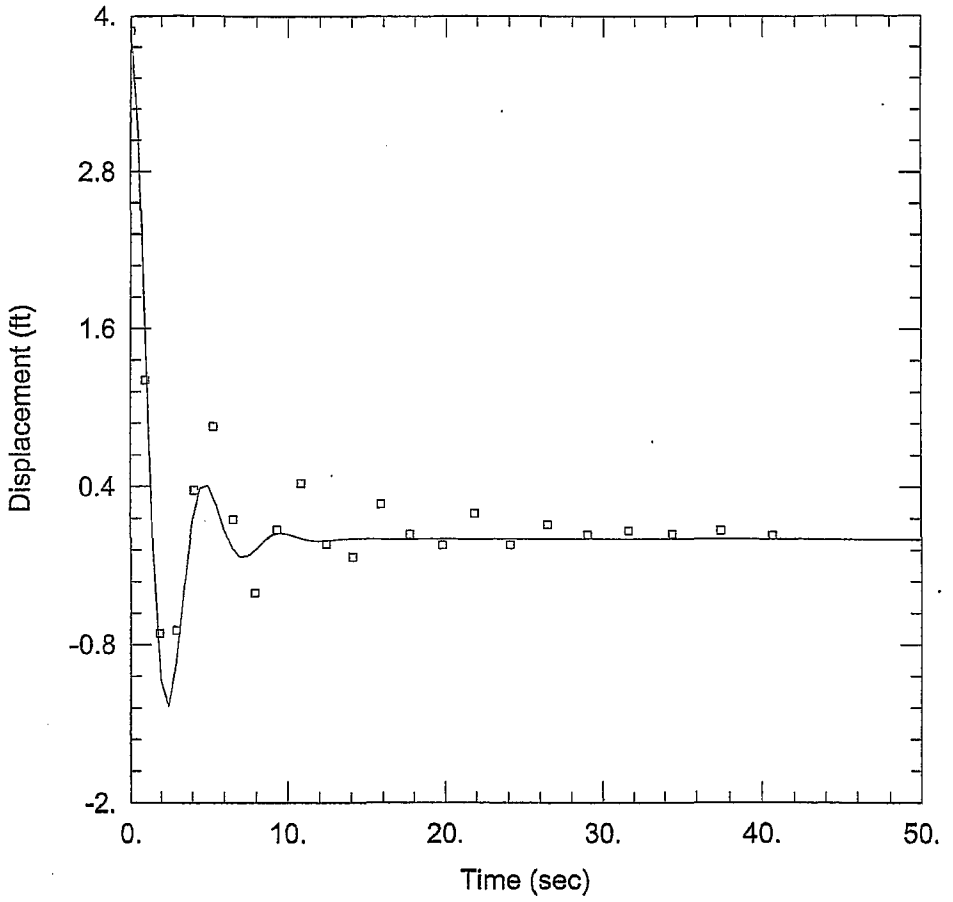
WELL DATA (0W-805 U)

Initial Displacement: 3.886 ft
Total Well Penetration Depth: 30. ft
Casing Radius: 0.083 ft
Static Water Column Height: 29.8 ft
Screen Length: 17. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler
K = 136.4 ft/day
Le = 16.61 ft

Prepared by: CHS Date: 6-20-08
Checked by: WSH Date: 6-20-08



OW-805 U RISING HEAD TEST 6-06-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-805 U
Test Date: 6/06/2008

AQUIFER DATA

Saturated Thickness: 32.3 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (0W-805 U)

Initial Displacement: 3.886 ft
Total Well Penetration Depth: 30. ft
Casing Radius: 0.083 ft
Static Water Column Height: 29.8 ft
Screen Length: 17. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 107.1 ft/day
Le = 16.61 ft

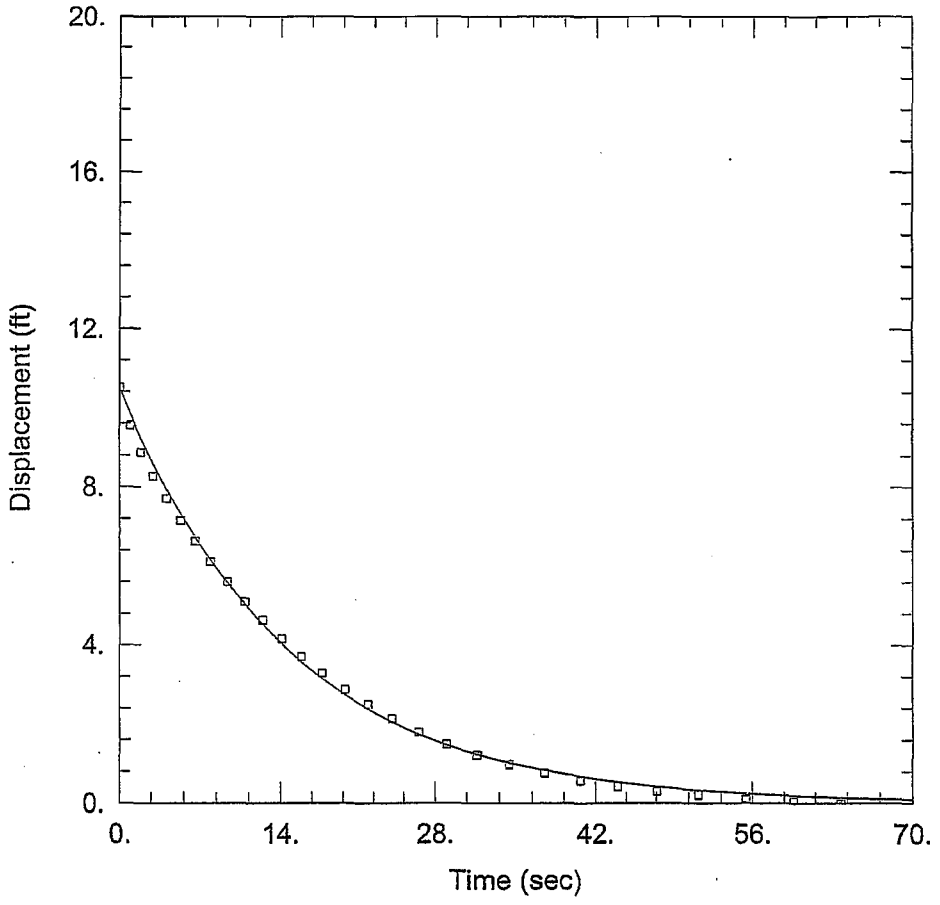
Checked by: CHB Date: 6-20-08

MACTEC

SLUG TEST REPORT

Project Name: Tukey Point COL	6468071950	Page 1 of 1	
Client: Bechtel	Contractor: MACTEC	OW-805L	
Location: Homestead, FL	MACTEC Rep: Kim Chalbsmith	Date: 06/06/08	
UNITS			
Length	Feet		
Time	Minutes		
Well Data	Stickup = 2.91 From g.s.		
Static Water Level	3.19' feet From TOC		
Total Well Depth	97.9' feet From TOC		
Static Water Column Height (H)	feet		
	Background	Falling Head	Rising Head
Observed Initial Displacement (H_o)	NA		
Saturated Thickness (b)	feet	Sand 80 - 97.9	
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1	85-95	
Depth to Top of Well Screen (d)			
Length of Well Screen (L)	10 feet		
Radius of Well Casing (rc)	0.083 feet		
Radius of Screen (rw)	0.083 feet		
Radius of Probe (rpr)			
Radius of Boring (rsk) Skin Effect	0.083 feet		
Probe Serial Number	Mini Troll Transducer probe Calibrated 4/29/08. Expires 4/29/09. Level troll @ 700 Sn: 118478 WinSitu		
Slug Data	Used pneumatic Slug to perform test		
Length			
weight			
Diameter			
Slug Test File	Background	Falling	KK 6-6-08 Rising ~~805LR~~
File Name	~~OW-805LBG~~ KK 6-6-08 OW-805L	NA	OW-805L
Start Time KK 6-6-08	03:35:15		04:16:39
End Time KK 6-6-08	03:57:21		04:17:43
Notes	04:09:39 04:10:42 2nd OW-805LR 04:24:09 04:25:29		
Rev 0			

Prepared by: CHB Date: 6-20-08
Checked by: LWS Date: 6-20-08



OW-805 L RISING HEAD TEST 6-06-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-805 L
Test Date: 6/06/2008

AQUIFER DATA

Saturated Thickness: 67.5 ft
Anisotropy Ratio (Kz/Kr): 1.

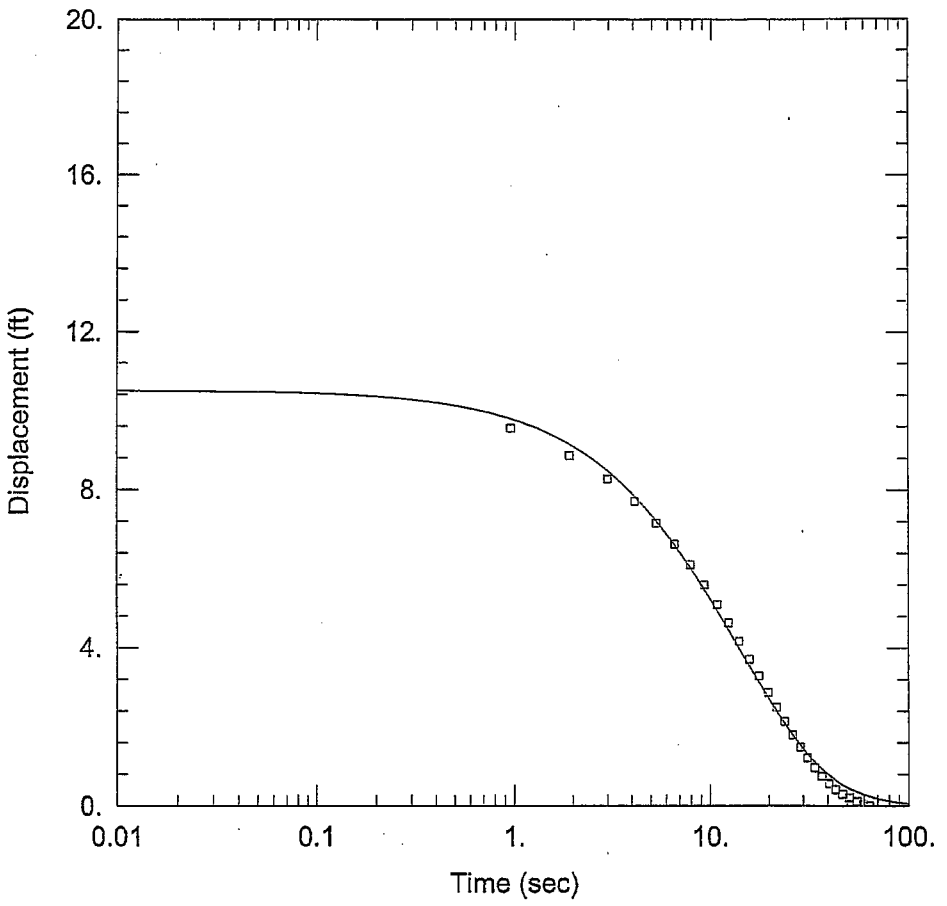
WELL DATA (OW-805 L)

Initial Displacement: 10.51 ft
Total Well Penetration Depth: 97. ft
Casing Radius: 0.083 ft
Static Water Column Height: 97.51 ft
Screen Length: 17. ft
Well Radius: 0.21 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler
K = 5.269 ft/day
Le = 0.1 ft

Prepared by: CHS Date: 6-20-08
Checked by: WSL Date: 6-20-08



OW-805 L RISING HEAD TEST 6-06-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-805 L
Test Date: 6/06/2008

AQUIFER DATA

Saturated Thickness: 67.5 ft

WELL DATA (OW-805 L)

Initial Displacement: 10.51 ft
Total Well Penetration Depth: 97. ft
Casing Radius: 0.083 ft
Static Water Column Height: 97.51 ft
Screen Length: 17. ft
Well Radius: 0.21 ft

SOLUTION

Aquifer Model: Confined
Kr = 5.936 ft/day
Kz/Kr = 1.
Solution Method: KGS Model
Ss = 1.481E-12 ft^{-1}

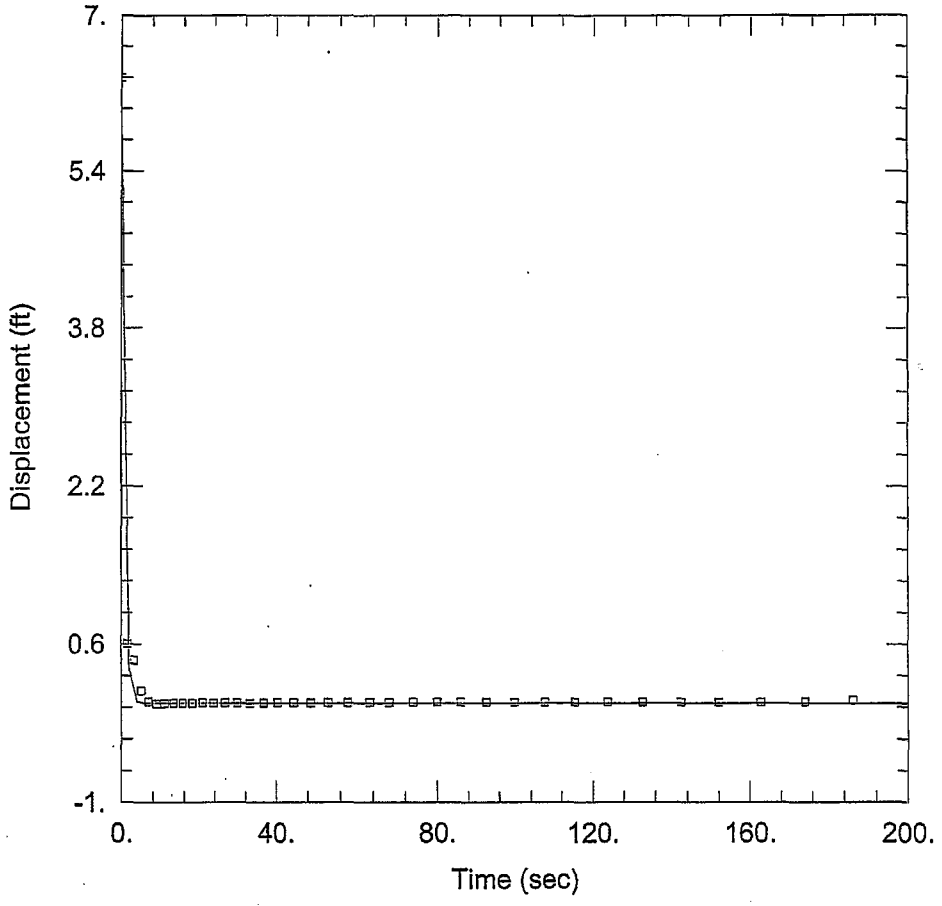
Checked by: CHB Date: 6-20-08

MACTEC

SLUG TEST REPORT

Project Name: TP COL	Project Number:	Page 1 of 1	
Client: Bechtel	Contractor: MACTEC		
Location: OW-809U	MACTEC Rep: Kim Charles-Smith	Date: 05/15/08	
UNITS			
Length	Feet		
Time	Minutes		
Well Data	Final Stickup = 3.83'		
Static Water Level	4.68' feet From TOC		
Total Well Depth	29.71' feet From TOC		
Static Water Column Height (H)	25.03' feet From G.S.		
	Background	Falling Head	Rising Head
Observed Initial Displacement (H_0)	NA		
Saturated Thickness (b)	feet		
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1		
Depth to Top of Well Screen (d)			
Length of Well Screen (L)	10' feet		
Radius of Well Casing (rc)	0.083 feet		
Radius of Screen (rw)	0.083 feet		
Radius of Probe (req)			
Radius of Boring (rsk) Skin Effect	0.083 feet		
	Mini Troll transducer Calibrated 4/29/08, Exp 4/29/09.		
Probe Serial Number			
Sn: 103345			
Slug Data Slug #2			
Length	65.438 inches		
weight	8.811 lbs.		
Diameter	1.662 inches		
Slug Test File	Background	Falling	Rising
File Name	OW-809UBG	OW-809UF	OW-809UR ~~BG~~ 5-15-08
Start Time	13:22:17	13:38:04	13:~~54~~ 56:56
End Time	13:34:53	13:48:40	14:~~18~~ 57:44
Notes	no extention used on TOC		
	ReRan OW-809UF @ 14:13:16 hrs.		
Rev 0			

Prepared by: CHB Date: 6-20-08
Checked by: WSC Date: 6-20-08



OW-809 U FALLING HEAD TEST 5-15-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-809 U
Test Date: 5/15/2008

AQUIFER DATA

Saturated Thickness: 25.52 ft
Anisotropy Ratio (Kz/Kr): 1.

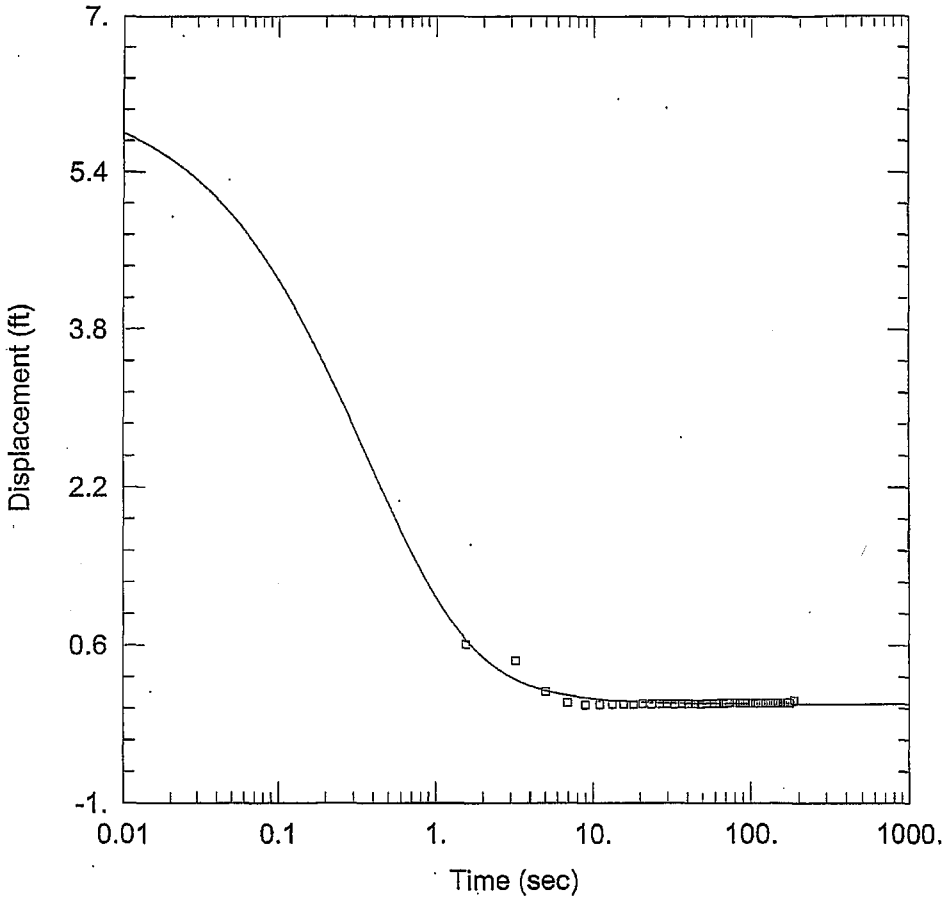
WELL DATA (OW-809 U)

Initial Displacement: 6.358 ft
Total Well Penetration Depth: 27. ft
Casing Radius: 0.083 ft
Static Water Column Height: 25.52 ft
Screen Length: 14.4 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 91.2 ft/day
Le = 0.1 ft

Prepared by: CHB Date: 6-20-08
Checked by: [illegible] Date: 6-20-08



OW-809 U FALLING HEAD TEST 5-15-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-809 U
Test Date: 5/15/2008

AQUIFER DATA

Saturated Thickness: 25.52 ft

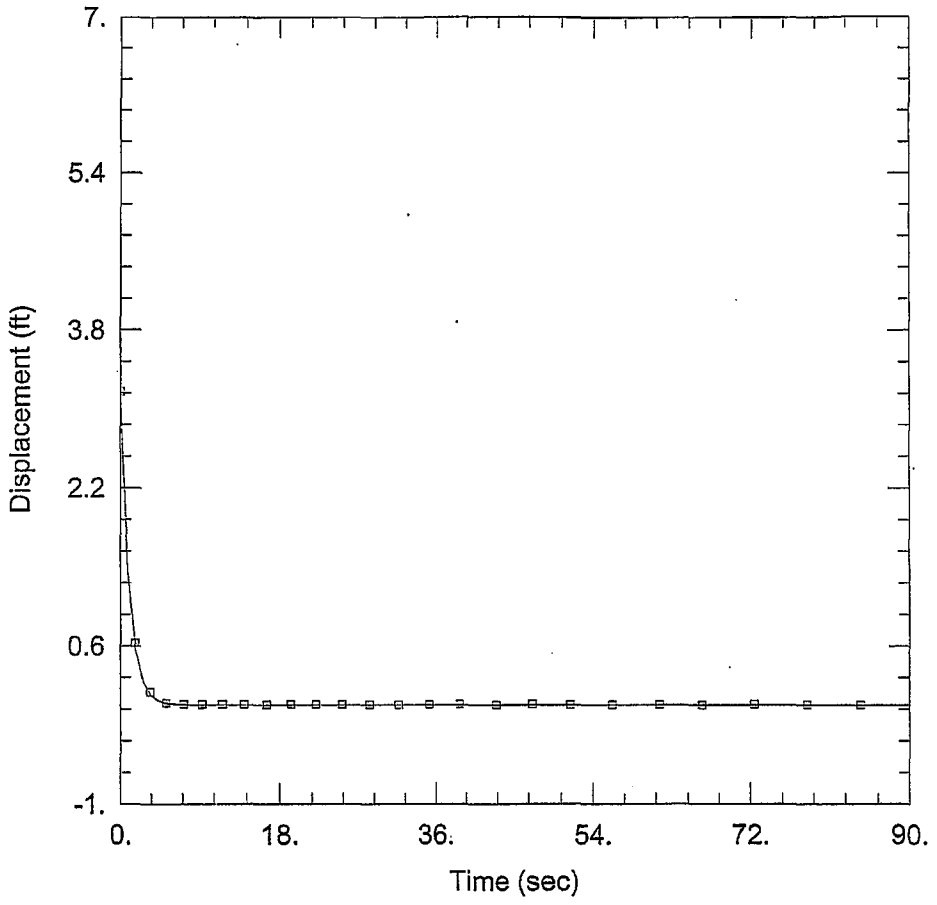
WELL DATA (OW-809 U)

Initial Displacement: 6.358 ft
Total Well Penetration Depth: 27. ft
Casing Radius: 0.083 ft
Static Water Column Height: 25.52 ft
Screen Length: 14.4 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model
Kr = 102.9 ft/day
Kz/Kr = 1.
Ss = 0.0003374 ft^{-1}

Prepared by: CAB Date: 6-20-08
Checked by: WS Date: 6-20-08



OW-809 U RISING HEAD TEST 5-15-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-809 U
Test Date: 5/15/2008

AQUIFER DATA

Saturated Thickness: 25.52 ft
Anisotropy Ratio (Kz/Kr): 1.

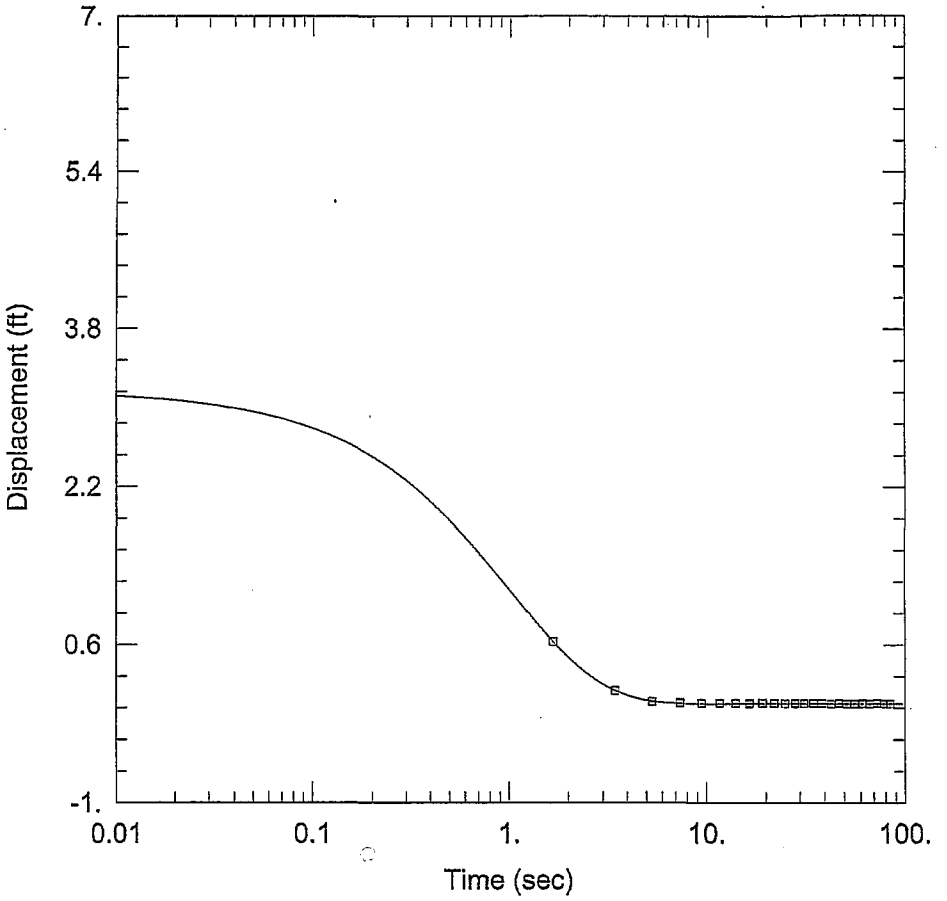
WELL DATA (OW-809 U)

Initial Displacement: 3.175 ft
Total Well Penetration Depth: 27. ft
Casing Radius: 0.083 ft
Static Water Column Height: 25.52 ft
Screen Length: 14.4 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
K = 60.67 ft/day
Solution Method: Springer-Gelhar
Le = 0.1 ft

Prepared by: CHG Date: 6-20-08
Checked by: WSC Date: 6-20-08



OW-809 U RISING HEAD TEST 5-15-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-809 U
Test Date: 5/15/2008

AQUIFER DATA

Saturated Thickness: 25.52 ft

WELL DATA (OW-809 U)

Initial Displacement: 3.175 ft
Total Well Penetration Depth: 27. ft
Casing Radius: 0.083 ft
Static Water Column Height: 25.52 ft
Screen Length: 14.4 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 82.32 ft/day
Kz/Kr = 1.
Ss = 2.789E-6 ft^{-1}

Checked by: CLB Date: 6-20-08

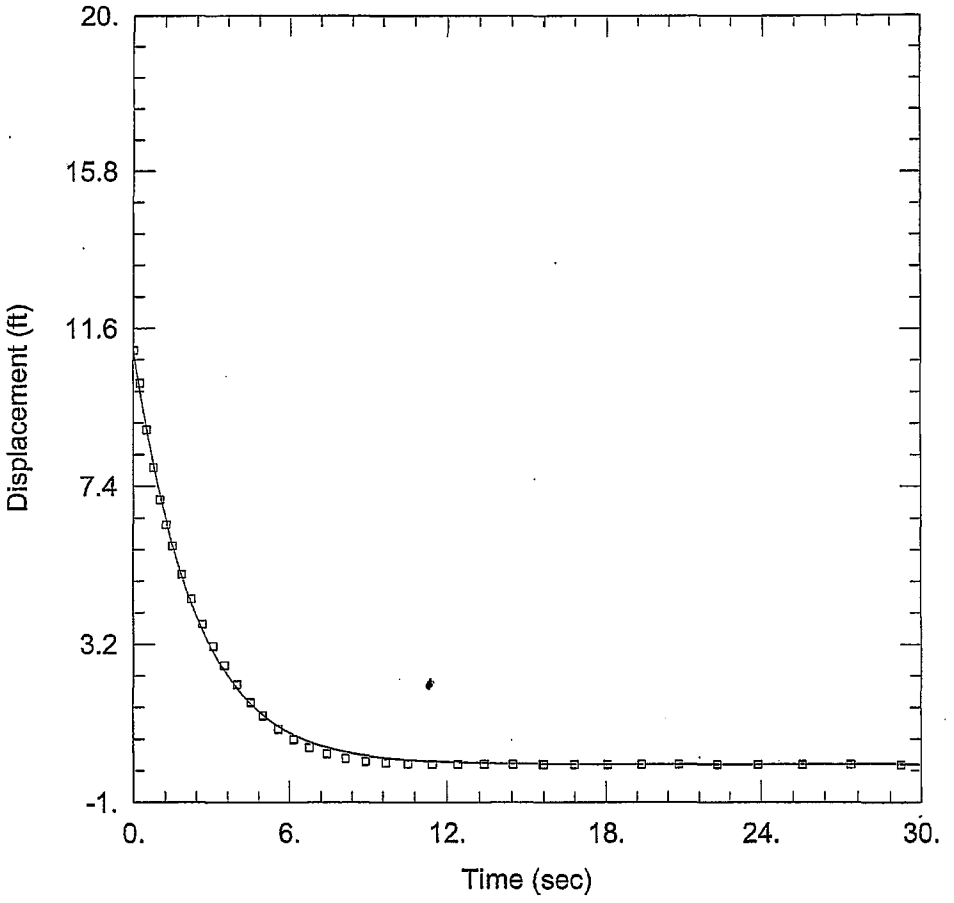
MACTEC

SLUG TEST REPORT

Project Name: TPCoL	Project Number: 6468-07-1950	Page 1 of 1	
Client: Bechtel	Contractor: MACTEC		
Location: OW-809U	MACTEC Rep: Kim Clarke-Smith	Date: 05/20/08	
UNITS			
Length	Feet		
Time	Minutes		
Well Data	Final Stickup = 3.83'		
Static Water Level	4.72' feet From TOC		
Total Well Depth	29.71' feet From TOC		
Static Water Column Height (H)	feet		
	Background	Falling Head	Rising Head
Observed Initial Displacement (H_0)	NA		
Saturated Thickness (b)	feet		
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1		
Depth to Top of Well Screen (d)			
Length of Well Screen (L)	10' feet		
Radius of Well Casing (rc)	0.083 feet		
Radius of Screen (rw)	0.083 feet		
Radius of Probe (req)			
Radius of Boring (rsk) Skin Effect	0.083 feet		
Probe Serial Number	Mini Troll Transducer probe calibrated 4/29/08, Exp 4/29/09 SN: 108478 level Troll @ 700 Winsitu		
Slug Data	used Pneumatic Slug to perform test		
Length			
weight			
Diameter			
Slug Test File	Background	Falling	Rising
File Name	OW-809U.BG	NA	OW-809UR
Start Time	09:24:23		09:33:23
End Time	09:27:32		09:33:54
Notes			

Rev 0

Prepared by: CAB Date: 6-20-08
Checked by: WS Date: 6-20-08



OW-809 U RISING HEAD TEST 5-20-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-809 U
Test Date: 5/20/2008

AQUIFER DATA

Saturated Thickness: 25.48 ft
Anisotropy Ratio (Kz/Kr): 1.

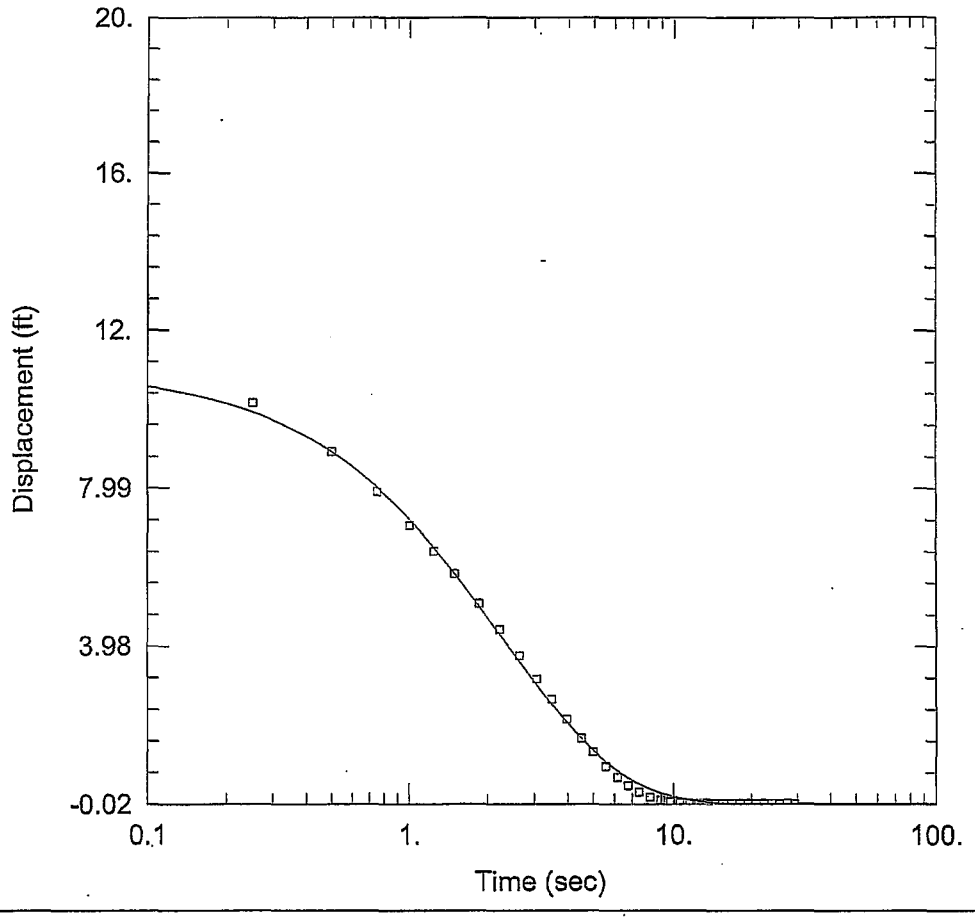
WELL DATA (OW-809 U)

Initial Displacement: 11.02 ft
Total Well Penetration Depth: 27. ft
Casing Radius: 0.083 ft
Static Water Column Height: 25.48 ft
Screen Length: 14.4 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 26.86 ft/day
Le = 1.028 ft

Prepared by: CHB Date: 6-20-08
Checked by: WL Date: 6-20-08



OW-809 U RISING HEAD TEST 5-20-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-809 U
Test Date: 5/20/2008

AQUIFER DATA

Saturated Thickness: 25.48 ft

WELL DATA (OW-809 U)

Initial Displacement: 11.02 ft
Total Well Penetration Depth: 27. ft
Casing Radius: 0.083 ft
Static Water Column Height: 25.48 ft
Screen Length: 14.4 ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 35.94 ft/day
Kz/Kr = 1.
Ss = 4.032E-19 ft^{-1}

Checked by CWB Date: 6-20-08

MACTEC

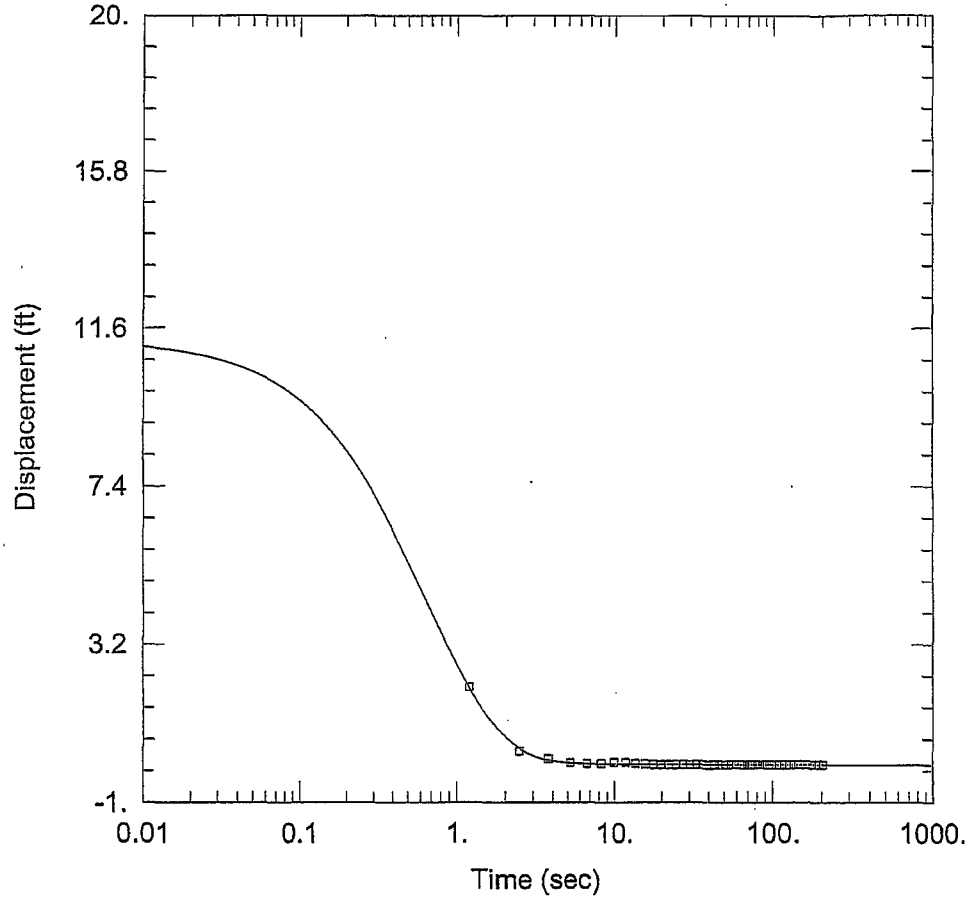
SLUG TEST REPORT

Project Name: TPCOL	Project Number:	Page 1 of 1	
Client: Bechtel	Contractor: MACTEC		
Location: OW-809L	MACTEC Rep: KimChaloSmith	Date: 05/15/08	

UNITS			
Length	Feet		
Time	Minutes		
Well Data	Final Stickup = 3.75'		
Static Water Level	3.26 feet From TOC		
Total Well Depth	109.92 feet From TOC		
Static Water Column Height (H) 106.66'	105.68' feet From 9.5		
	Background	Falling Head	Rising Head
Observed Initial Displacement (H_0)	NA		
Saturated Thickness (b)	feet		
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1		
Depth to Top of Well Screen (d)			
Length of Well Screen (L)	10' feet		
Radius of Well Casing (rc)	0.083 feet		
Radius of Screen (rw)	0.083 feet		
Radius of Probe (rep)			
Radius of Boring (rsk) Skin Effect	0.083 feet		
Probe Serial Number	Mini Troll Probe Calibrated 4/29/08. Exp. 4/29/09. Transducer		
Sn: 103345			
Slug Data Slug #2			
Length	65.438 inches		
weight	8.811 lbs.		
Diameter	1.662 inches		
Slug Test File	Background	Falling	Rising
File Name	OW-809BG	OW-809LF	OW-809LR
Start Time	12:36:37	12:46:05	12:59:45
End Time	12:42:56	12:56:41	13:13:03
Notes	Extended TOC TO 5.81' above 9.5.		

Rev 0

Prepared by: CHS Date: 6-20-08
Checked by: W-SC Date: 6-20-08



OW-809 L FALLING HEAD TEST 5-15-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-809 L
Test Date: 5/15/2008

AQUIFER DATA

Saturated Thickness: 88. ft

WELL DATA (OW-809 L)

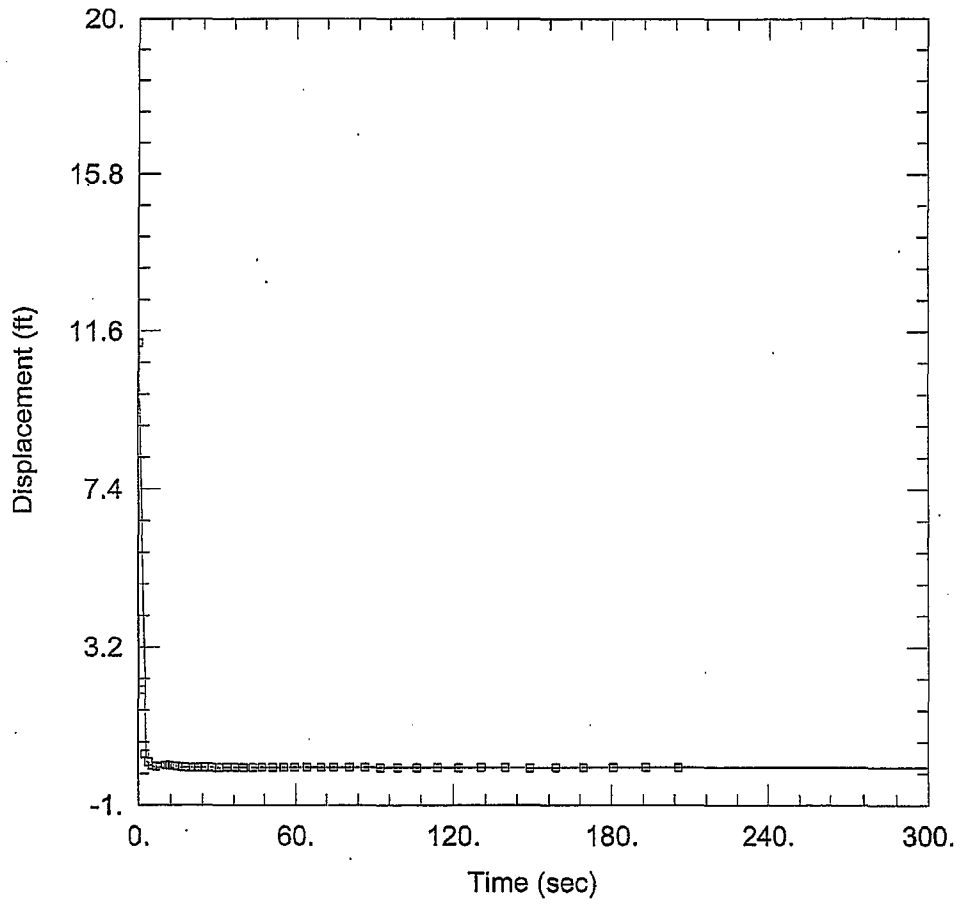
Initial Displacement: 11.29 ft
Total Well Penetration Depth: 110. ft
Casing Radius: 0.083 ft
Static Water Column Height: 110. ft
Screen Length: 19. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 108.6 ft/day
Kz/Kr = 1.
Ss = 4.263E-12 ft^{-1}

Prepared by: CHB Date: 6-20-08
Checked by: GW Date: 6-20-08



OW-809 L FALLING HEAD TEST 5-15-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-809 L
Test Date: 5/15/2008

AQUIFER DATA

Saturated Thickness: 88. ft
Anisotropy Ratio (Kz/Kr): 1.

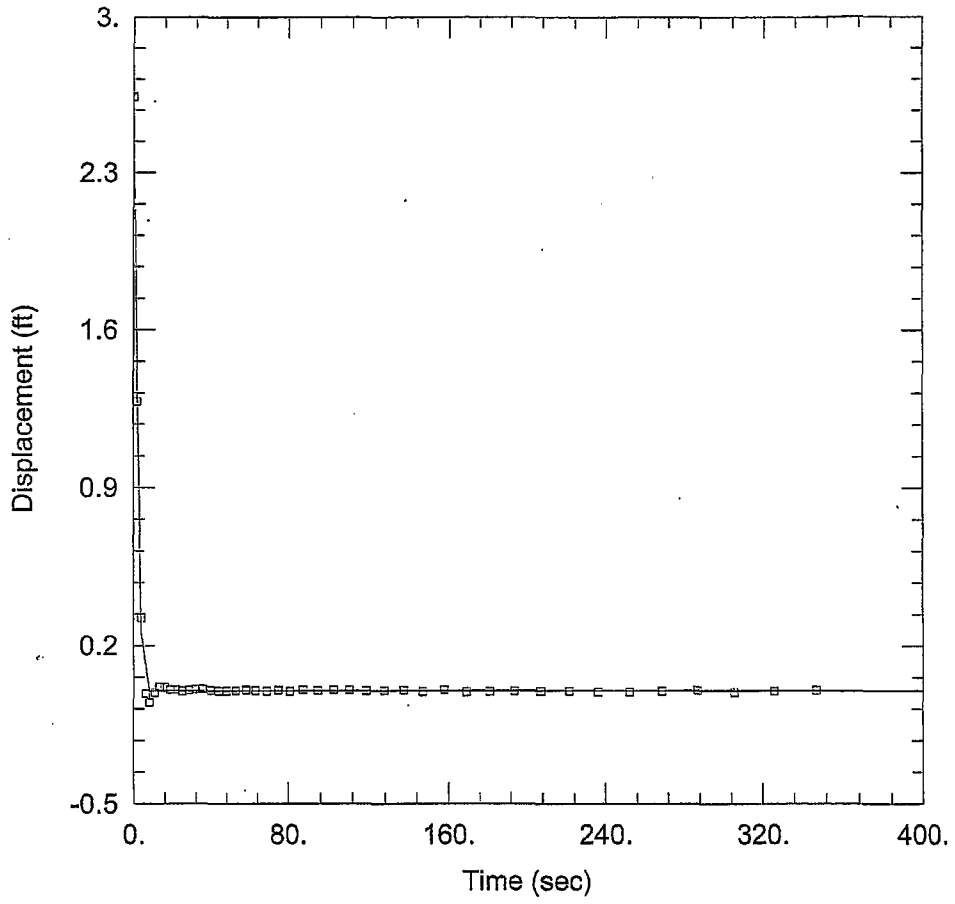
WELL DATA (OW-809 L)

Initial Displacement: 11.29 ft
Total Well Penetration Depth: 110. ft
Casing Radius: 0.083 ft
Static Water Column Height: 110. ft
Screen Length: 19. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined
K = 103.7 ft/day
Solution Method: Butler
Le = 0.1 ft

Prepared by: CHH Date: 6-20-08
Checked by: [illegible] Date: 6-20-08



OW-809 L RISING HEAD TEST 5-15-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-809 L
Test Date: 5/15/2008

AQUIFER DATA

Saturated Thickness: 88. ft
Anisotropy Ratio (Kz/Kr): 1.

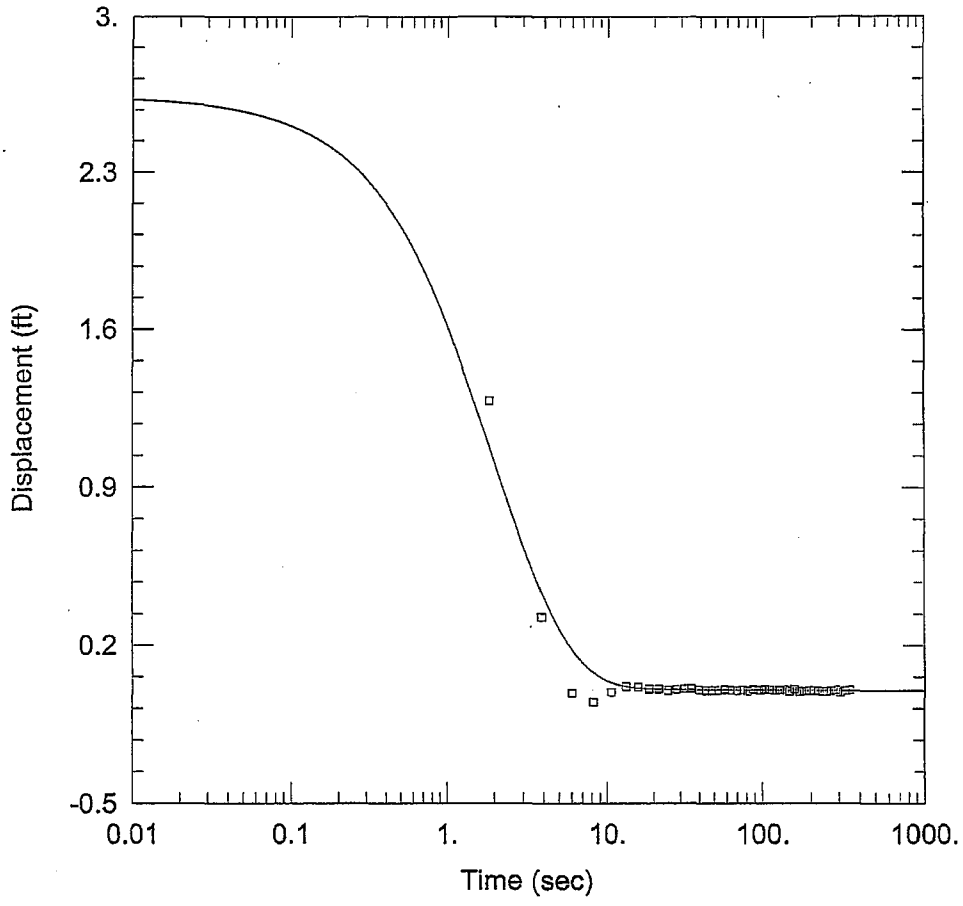
WELL DATA (OW-809 L)

Initial Displacement: 2.64 ft
Total Well Penetration Depth: 110. ft
Casing Radius: 0.083 ft
Static Water Column Height: 110. ft
Screen Length: 19. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined
K = 33.43 ft/day
Solution Method: Butler
Le = 42.49 ft

Prepared by: CHB Date: 6-20-08
Checked by: WSL Date: 6-20-08



OW-809 L RISING HEAD TEST 5-15-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-809 L
Test Date: 5/15/2008

AQUIFER DATA

Saturated Thickness: 88. ft

WELL DATA (OW-809 L)

Initial Displacement: 2.64 ft
Total Well Penetration Depth: 110. ft
Casing Radius: 0.083 ft
Static Water Column Height: 110. ft
Screen Length: 19. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined
Kr = 36.57 ft/day
Kz/Kr = 1.
Solution Method: KGS Model
Ss = 1.136E-12 ft^{-1}

Checked by: CHB Date: 6-20-08

MACTEC

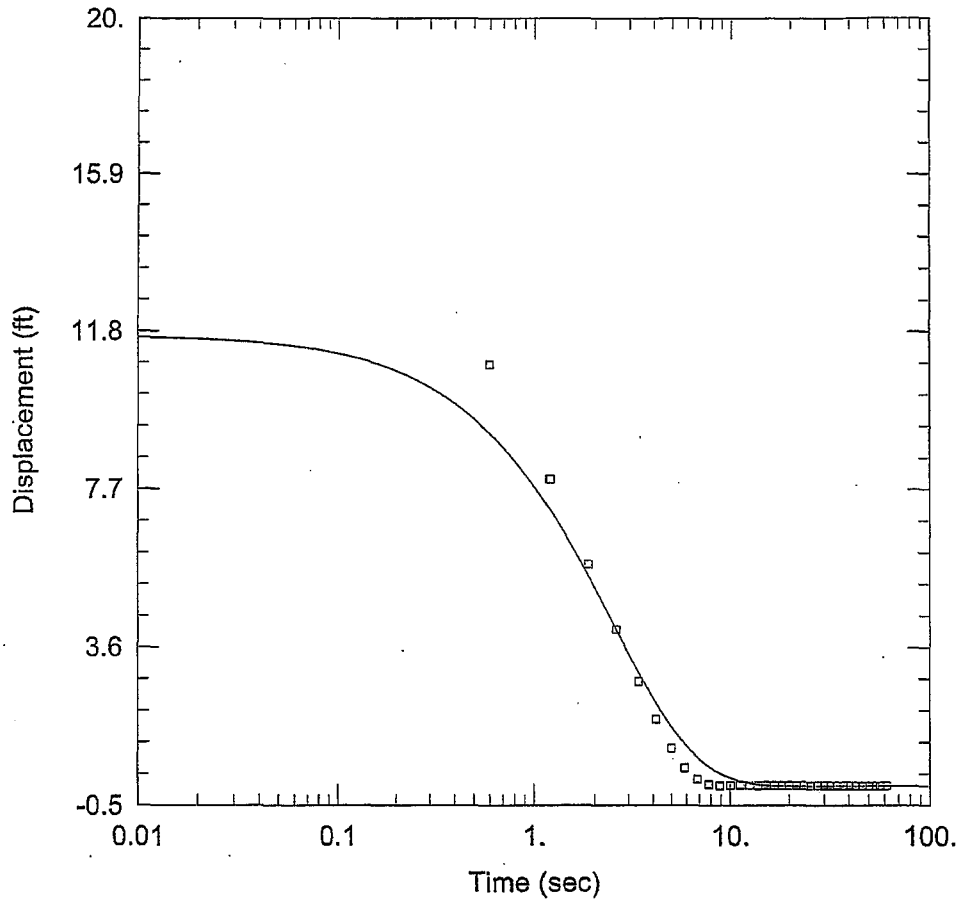
SLUG TEST REPORT

Project Name: TPCOL	614608-07-1950 Project Number:	Page	of
Client: Bechtel	Contractor: MACTEC		
Location: OW-812U	MACTEC Rep: Kim Charles-Smith	Date: 05/2008	

UNITS			
Length	Feet		
Time	Minutes		
Well Data	Full Stickup = 3.15' From S.S.		
Static Water Level	4.55' feet From TOC		
Total Well Depth	30.30' feet From TOC		
Static Water Column Height (H)	feet		
	Background	Falling Head	Rising Head
Observed Initial Displacement (H_0)	NA		
Saturated Thickness (b)	feet		
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1		
Depth to Top of Well Screen (d)			
Length of Well Screen (L)	10' feet		
Radius of Well Casing (rc)	0.083 feet		
Radius of Screen (rw)	0.083 feet		
Radius of Probe (req)			
Radius of Boring (rsk) Skin Effect	0.083 feet		
Probe Serial Number	Mini troll transducer probe calibrated 4/29/08, exp 4/29/09 SN: 118478 level Troll @ 700 Winsitu		
Slug Data	Used pneumatic slug to perform test.		
Length			
weight			
Diameter			
Slug Test File	Background	Falling	Rising
File Name	OW-812UBG	NA	OW-812UR
Start Time	16:05:53		16:13:19
End Time	16:08:21		16:14:31
Notes			

Rev 0

Prepared by: C+B Date: 6-20-08
Checked by: [illegible] Date: 6-26-08



OW-812 U RISING HEAD TEST 5-20-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-812 U
Test Date: 5/20/2008

AQUIFER DATA

Saturated Thickness: 25.45 ft

WELL DATA (OW-812 U)

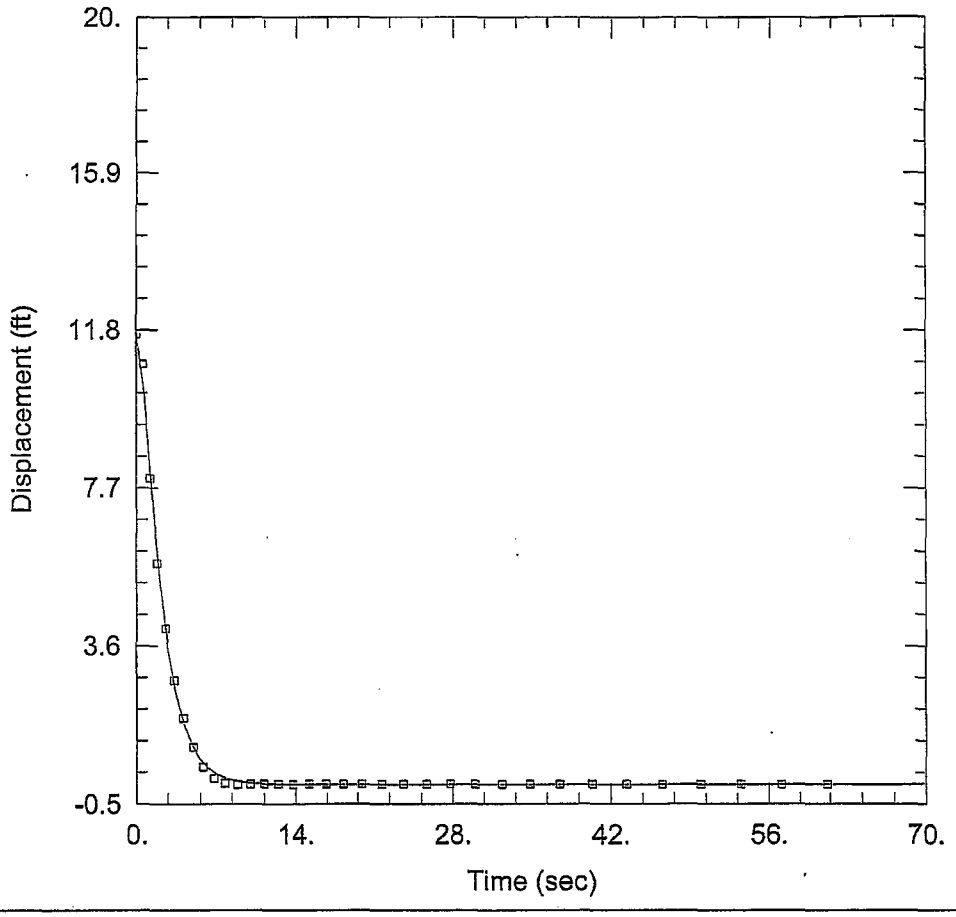
Initial Displacement: 11.68 ft
Total Well Penetration Depth: 27. ft
Casing Radius: 0.083 ft
Static Water Column Height: 25.45 ft
Screen Length: 16. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 31.24 ft/day
Kz/Kr = 1.
Ss = 3.704E-20 ft^{-1}

Prepared by: CHB Date: 6-20-08
Checked by: WSL Date: 6-20-08



OW-812 U RISING HEAD TEST 5-20-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-812 U
Test Date: 5/20/2008

AQUIFER DATA

Saturated Thickness: 25.45 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (OW-812 U)

Initial Displacement: 11.68 ft
Total Well Penetration Depth: 27. ft
Casing Radius: 0.083 ft
Static Water Column Height: 25.45 ft
Screen Length: 16. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 24.49 ft/day
Le = 36.28 ft

Checked by: CHB Date: 6-20-08

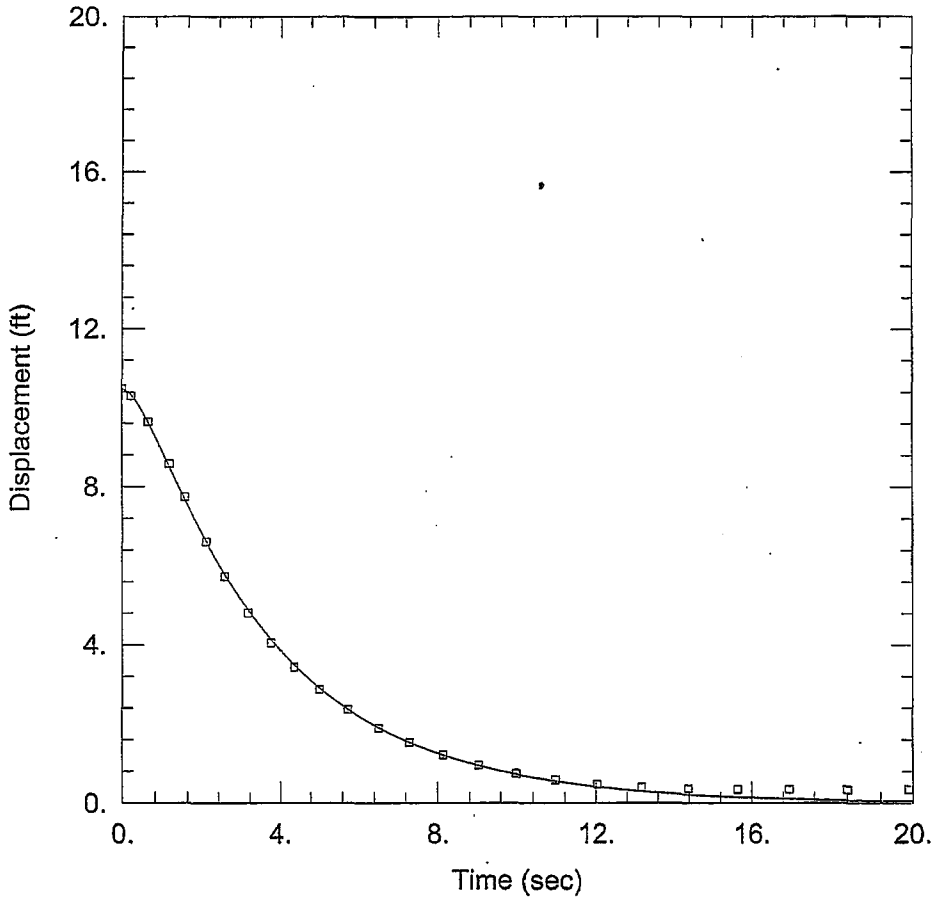
MACTEC

SLUG TEST REPORT

Project Name: TPCOL	6468-07-1950 Project Number:	Page 1 of 1	
Client: Bechtel	Contractor: MACTEC		
Location: OW-812L	MACTEC Rep: Kim Chaka-Smith	Date: 05-29-08	
UNITS			
Length	Feet		
Time	Minutes		
Well Data	Rim Stickup from G.S. = 3.33'		
Static Water Level	3.01' feet		
Total Well Depth	111.75' feet		
Static Water Column Height (H)	feet		
	Background	Falling Head	Rising Head
Observed Initial Displacement (H_0)	NA		
Saturated Thickness (b)	feet		
Conductivity Anisotropy (Kv/Kh)	Assume 1 to 1		
Depth to Top of Well Screen (d)			
Length of Well Screen (L)	10 feet		
Radius of Well Casing (rc)	0.083 feet		
Radius of Screen (rw)	0.083 feet		
Radius of Probe (rp)			
Radius of Boring (rsk) Skin Effect	0.083 feet		
Probe Serial Number	Transducer Mini-troll probe calibrated 4/29/08, 2nd 4/29/09 Sn: 118478 Level Troll® 700 WinSitu		
Slug Data	USED pneumatic slug to perform test		
Length			
weight			
Diameter			
Slug Test File	Background	Falling	Rising
File Name	OW-812L BG	NA	OW-812LR
Start Time	15:52:14		15:58:28
End Time	15:55:13		15:58:52
Notes			

Rev 0

Prepared by: CHB Date: 6-20-08
Checked by: WS Date: 6-20-08



OW-812 L RISING HEAD TEST 5-20-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-812 L
Test Date: 5/20/2008

AQUIFER DATA

Saturated Thickness: 86. ft
Anisotropy Ratio (Kz/Kr): 1.

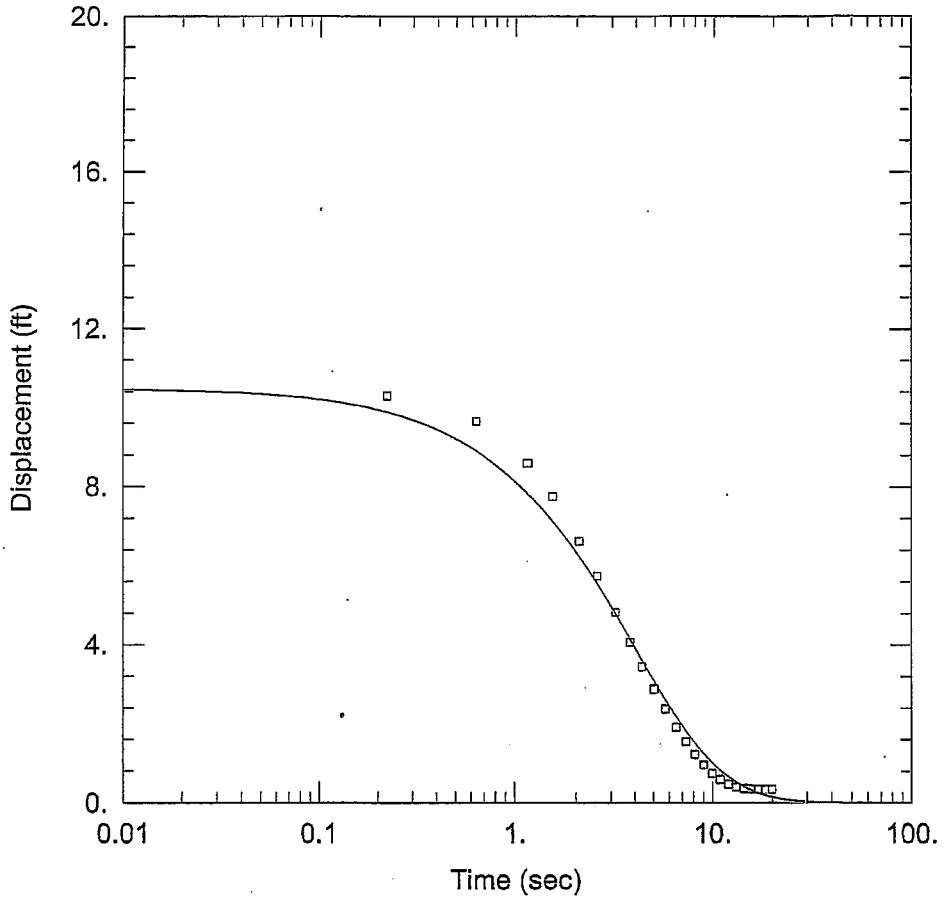
WELL DATA (OW-812 L)

Initial Displacement: 10.48 ft
Total Well Penetration Depth: 109. ft
Casing Radius: 0.083 ft
Static Water Column Height: 109.3 ft
Screen Length: 15. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined
K = 21.01 ft/day
Solution Method: Butler
Le = 47.1 ft

Prepared by: CHB Date: 6-20-08
Checked by: WSC Date: 6-20-08



OW-812 L RISING HEAD TEST 5-20-08

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Well: OW-812 L
Test Date: 5/20/2008

AQUIFER DATA

Saturated Thickness: 86. ft

WELL DATA (OW-812 L)

Initial Displacement: 10.48 ft
Total Well Penetration Depth: 109. ft
Casing Radius: 0.083 ft
Static Water Column Height: 109.3 ft
Screen Length: 15. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined
Kr = 21.2 ft/day
Kz/Kr = 1.
Solution Method: KGS Model
Ss = 1.163E-12 ft^{-1}