

Appendix E3. Summary of Aquifer Test Construction
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

Pump Test Construction:

Pumping Well	Observation Well	Pump Test Data							Distance from Pumping Well to Observation Well (ft)	Test Date
		Saturated Aquifer Thickness (ft)	Screen Length (ft)	Boring Radius (ft)	Discharge Rate (U.S. gal/min)	Test Duration (min)	Observed Drawdown (ft)			
MW-B-14-A	MW-BW-60-A	24	30	0.5	7	1837.7	0.7	17.15	7/22/2003	
	MW-BW-15-A	24	30	0.5	7	1837.7	NA	181.81		
MW-BW-44-A	PZ-BW-44-A	18	30	0.5	15	437.75	0.17	21.38	7/31/2003	
	MW-BW-45-A	18	30	0.5	15	437.75	NA	277.25		
	MW-BW-11-A	18	30	0.5	15	437.75	NA	377.89		
MCWD-8A	MP-BW-30-342	140	80	1	320	2880	1.6	204.33	5/6/2003	
	MP-BW-31-332	140	80	1	320	2880	1.4	656.29		
	MP-BW-37-328	140	80	1	320	2880	0.8	512.44		

Slug Test Construction:

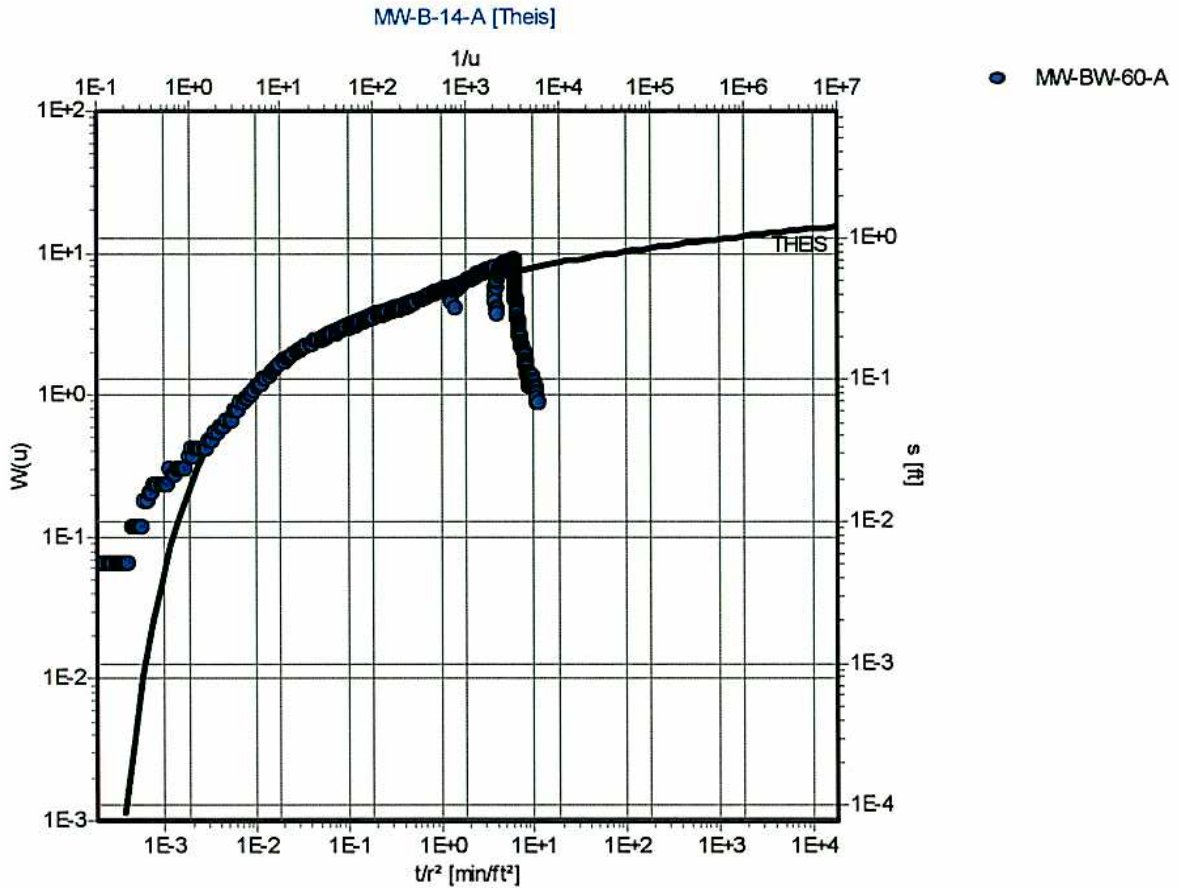
Well Name	Recovery	Slug Test Data			
		Saturated Aquifer	Screen Length (ft)	Test Duration (min)	Test Date
MW-B-11-A	Falling-Head	30	30	7.89	11/10/2004
MW-B-11-A	Rising-Head	30	30	4.97	11/11/2004
MW-B-12-A	Falling-Head	30	30	7.04	11/10/2004
MW-B-12-A	Rising-Head	30	30	5.58	11/10/2004
MW-B-14-A	Falling-Head	30	20	5.92	11/10/2004
MW-B-14-A	Rising-Head	30	20	5.92	11/10/2004
MW-BW-24-A	Falling-Head	30	30	5.92	11/10/2004
MW-BW-24-A	Rising-Head	30	30	6.27	11/10/2004
MW-BW-30-A	Falling-Head	30	30	6.27	11/10/2004
MW-BW-30-A	Rising-Head	30	30	4.43	11/10/2004
MW-BW-31-A	Falling-Head	30	30	6.27	11/10/2004
MW-BW-31-A	Rising-Head	30	30	6.27	11/10/2004
MW-BW-34-A	Falling-Head	30	30	4.97	11/10/2004
MW-BW-34-A	Rising-Head	30	30	3.13	11/10/2004
MW-BW-35-A	Falling-Head	30	30	7.89	11/10/2004
MW-BW-35-A	Rising-Head	30	30	7.45	11/10/2004
MW-BW-38-A	Falling-Head	30	30	3.32	11/10/2004
MW-BW-38-A	Rising-Head	30	30	6.27	11/10/2004
MW-BW-39-A	Falling-Head	30	30	2.95	11/10/2004
MW-BW-39-A	Rising-Head	30	30	3.52	11/10/2004
MW-BW-41-A	Falling-Head	30	30	5.27	11/10/2004
MW-BW-41-A	Rising-Head	30	30	3.52	11/10/2004
MW-BW-42-A	Falling-Head	30	30	5.27	11/10/2004
MW-BW-42-A	Rising-Head	30	30	3.52	11/10/2004
MW-BW-43-A	Falling-Head	30	30	5.27	11/10/2004
MW-BW-43-A	Rising-Head	30	30	5.27	11/10/2004
MW-BW-44-A	Falling-Head	30	30	2.09	11/10/2004
MW-BW-44-A	Rising-Head	30	30	4.43	11/10/2004
MW-BW-45-A	Falling-Head	30	30	2.95	11/10/2004
MW-BW-45-A	Rising-Head	30	30	3.73	11/10/2004

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Well Name	Recovery	Saturated Aquifer	Screen Length (ft)	Test Duration (min)	Test Date
MW-BW-50-A	Falling-Head	30	30	5.27	11/10/2004
MW-BW-50-A	Rising-Head	30	30	6.27	11/10/2004
MW-BW-51-A	Falling-Head	30	30	5.27	11/10/2004
MW-BW-51-A	Rising-Head	30	30	6.27	11/10/2004
MW-BW-54-A	Falling-Head	30	30	2.34	11/10/2004
MW-BW-54-A	Rising-Head	30	30	4.97	11/10/2004
MW-BW-55-A	Falling-Head	30	30	5.92	11/10/2004
MW-BW-55-A	Rising-Head	30	30	6.27	11/10/2004
MW-OU2-07-A	Falling-Head	30	30	6.27	11/10/2004
MW-OU2-07-A	Rising-Head	30	30	3.13	11/10/2004
MW-OU2-08-A	Falling-Head	30	30	5.27	11/10/2004
MW-OU2-08-A	Rising-Head	30	30	6.27	11/10/2004
MW-OU2-30-A	Falling-Head	30	30	6.27	11/10/2004
MW-OU2-30-A	Rising-Head	30	30	6.27	11/10/2004
MW-OU2-75-A	Falling-Head	30	30	5.27	11/10/2004
MW-OU2-75-A	Rising-Head	30	30	6.27	11/10/2004
MW-OU2-76-A	Falling-Head	30	30	6.27	11/10/2004
MW-OU2-76-A	Rising-Head	30	30	6.27	11/10/2004

Checked CJM

 Approved MST



Pumping Test: MW-B-14-A

Analysis Method: Theis

Analysis Results: Transmissivity: 1.38E+3 [ft²/d] Conductivity: 5.76E+1 [ft/d]
 Storativity: 7.05E-3

Test parameters: Pumping Well: MW-B-14-A Aquifer Thickness: 24 [ft]
 Casing radius: 0.25 [ft] Unconfined Aquifer
 Screen length: 30 [ft]
 Boring radius: 0.5 [ft]
 Discharge Rate: 7 [U.S. gal/min]



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MW-B-14-A Aquifer Test, Drawdown at MW-BW-60-A
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 Former Fort Ord, California

FIGURE

E4-1

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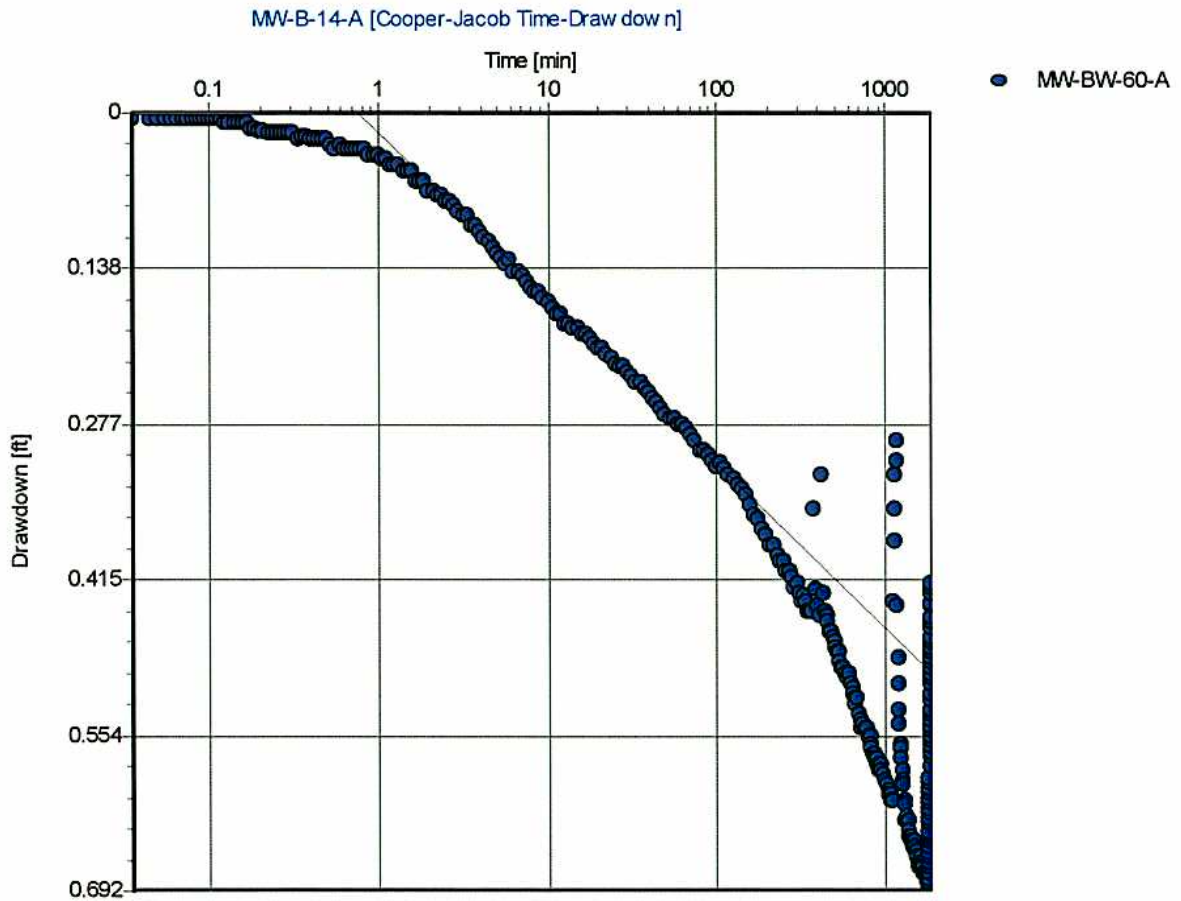
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Pumping Test: MW-B-14-A

Analysis Method: Cooper-Jacob Time-Drawdown

Analysis Results:	Transmissivity:	1.68E+3 [ft ² /d]	Conductivity:	7.01E+1 [ft/d]
	Storativity:	6.83E-3		

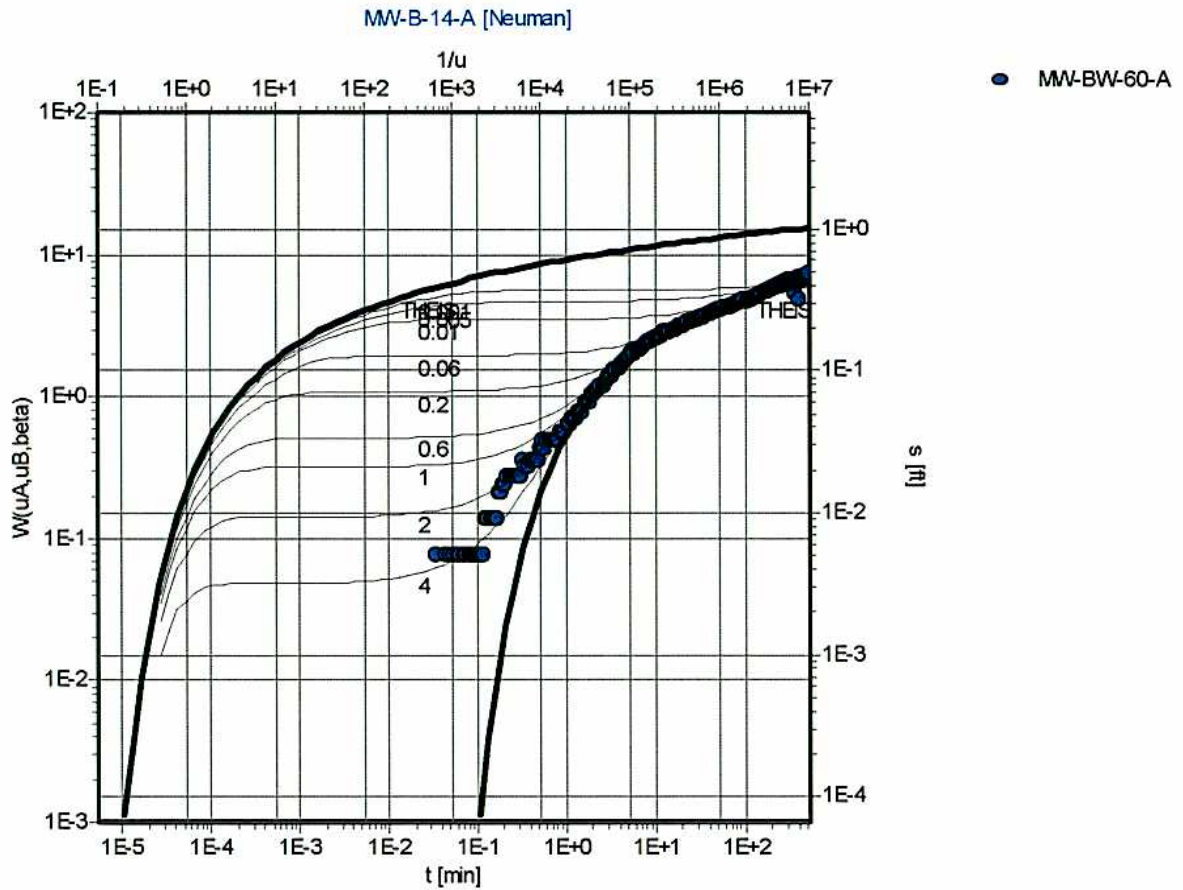
Test parameters:	Pumping Well:	MW-B-14-A	Aquifer Thickness:	24 [ft]
	Casing radius:	0.25 [ft]	Unconfined Aquifer	
	Screen length:	30 [ft]		
	Boring radius:	0.5 [ft]		
	Discharge Rate:	7 [U.S. gal/min]		



MW-B-14-A Aquifer Test, Drawdown at MW-BW-60-A
 OU CTP Remedial Investigation/Feasibility Study
 Former Fort Ord, California

FIGURE
E4-2

DRAWN CLH	JOB NUMBER 55596.001701	APPROVED <i>MST/CLH</i>	DATE 01/05	REVISED DATE
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Pumping Test: MW-B-14-A

Analysis Method: Neuman

Analysis Results:	Transmissivity:	1.63E+3 [ft ² /d]	Conductivity:	6.78E+1 [ft/d]
	Storativity:	8.30E-7	Specific Yield:	8.30E-3

Test parameters:	Pumping Well:	MW-B-14-A	Aquifer Thickness:	24 [ft]
	Casing radius:	0.25 [ft]	Beta:	0.005
	Screen length:	30 [ft]		
	Boring radius:	0.5 [ft]		
	Discharge Rate:	7 [U.S. gal/min]		
	LOG(Sy/S):	4		



MW-B-14-A Aquifer Test, Drawdown at MW-BW-60-A
 OU CTP Remedial Investigation/Feasibility Study
 Former Fort Ord, California

FIGURE
E4-3

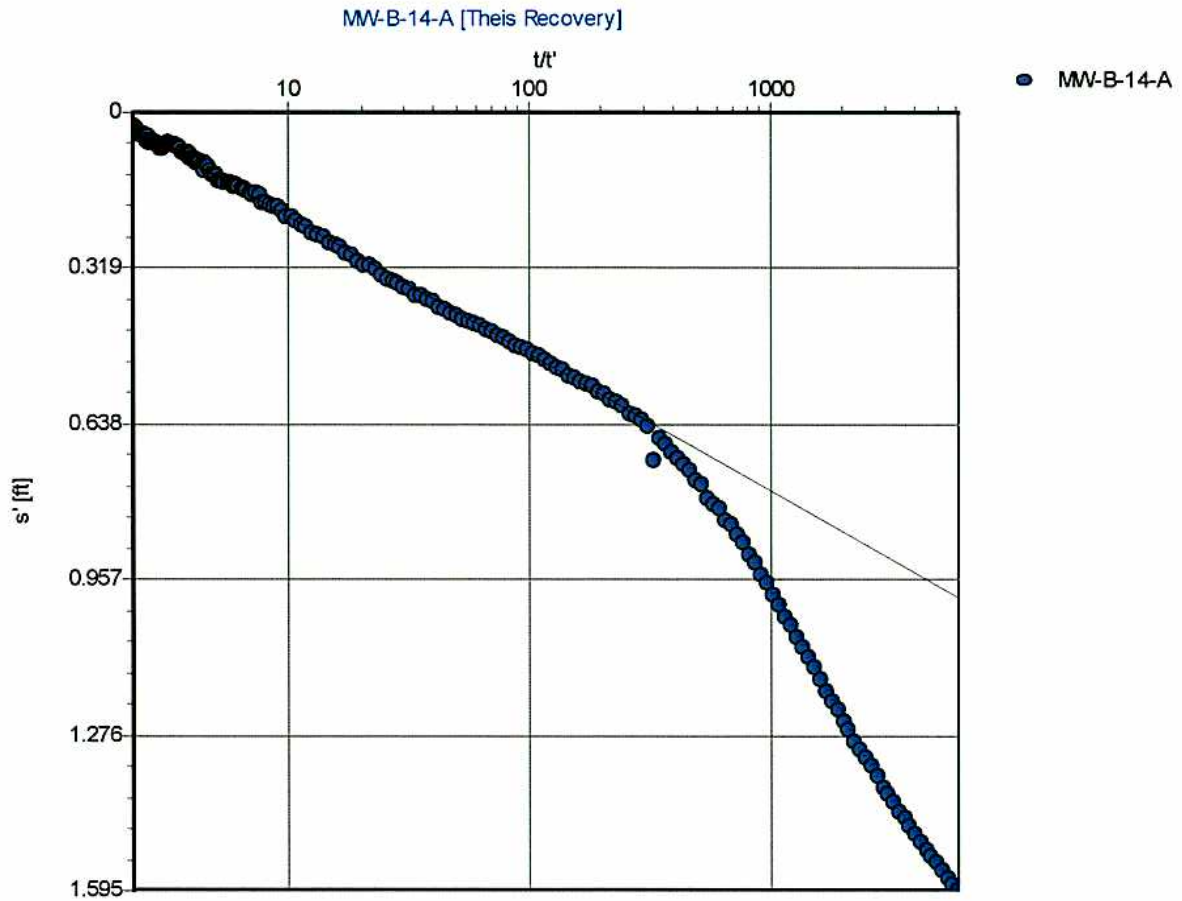
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Pumping Test: MW-B-14-A

Analysis Method: Theis Recovery

Analysis Results: Transmissivity: 8.78E+2 [ft²/d] Conductivity: 3.66E+1 [ft/d]

Test parameters:

Pumping Well:	MW-B-14-A	Aquifer Thickness:	24 [ft]
Casing radius:	0.25 [ft]	Unconfined Aquifer	
Screen length:	30 [ft]		
Boring radius:	0.5 [ft]		
Discharge Rate:	7 [U.S. gal/min]		
Pumping Time	1837.7 [min]		



MW-B-14-A Aquifer Test, Recovery at MW-B-14-A
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E4-4

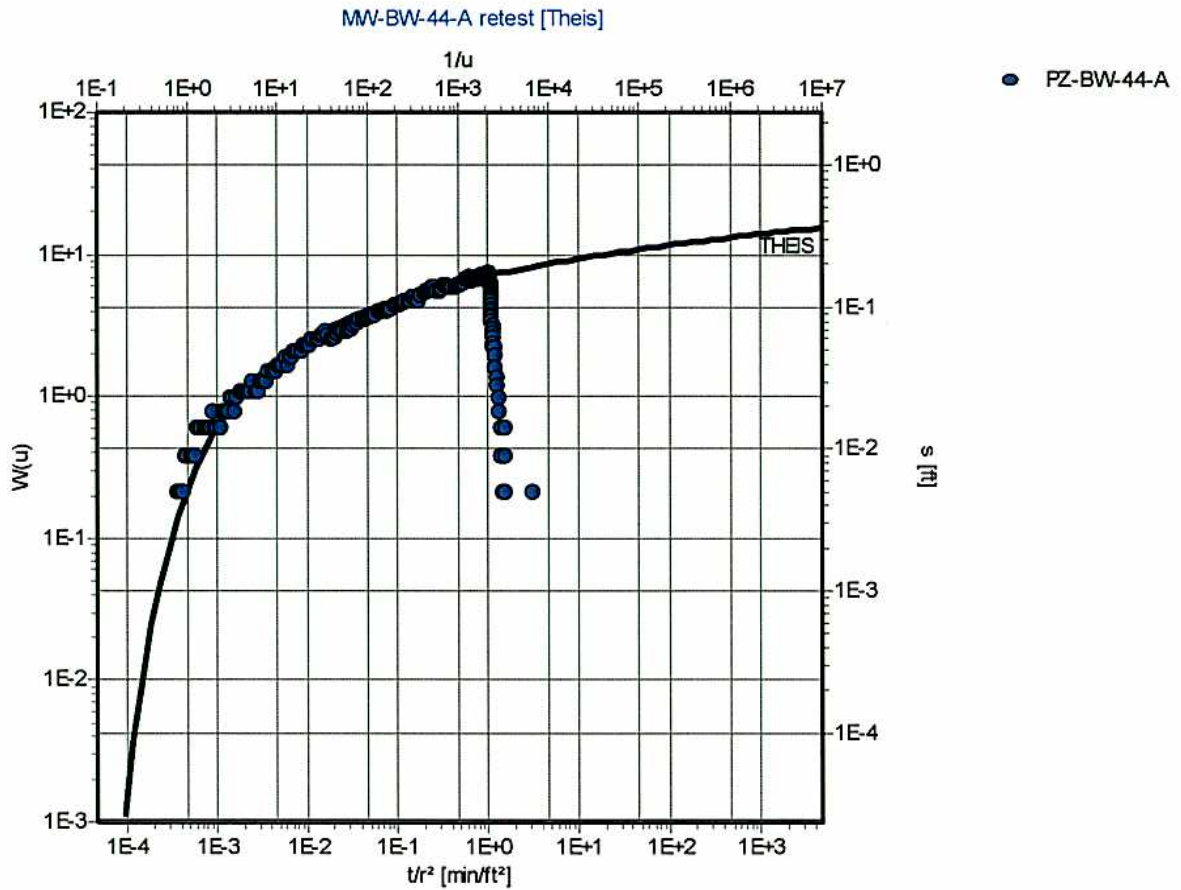
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Pumping Test: MW-BW-44-A retest

Analysis Method: Theis

<u>Analysis Results:</u>	Transmissivity:	9.80E+3 [ft ² /d]	Conductivity:	5.45E+2 [ft/d]
	Storativity:	1.27E-2		

<u>Test parameters:</u>	Pumping Well:	MW-BW-44-A	Aquifer Thickness:	18 [ft]
	Casing radius:	0.21 [ft]	Confined Aquifer	
	Screen length:	30 [ft]		
	Boring radius:	0.5 [ft]		
	Discharge Rate:	15 [U.S. gal/min]		



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MW-BW-44-A Aquifer Test, Drawdown at PZ-BW-44-A
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Former Fort Ord, California

FIGURE

E5-1

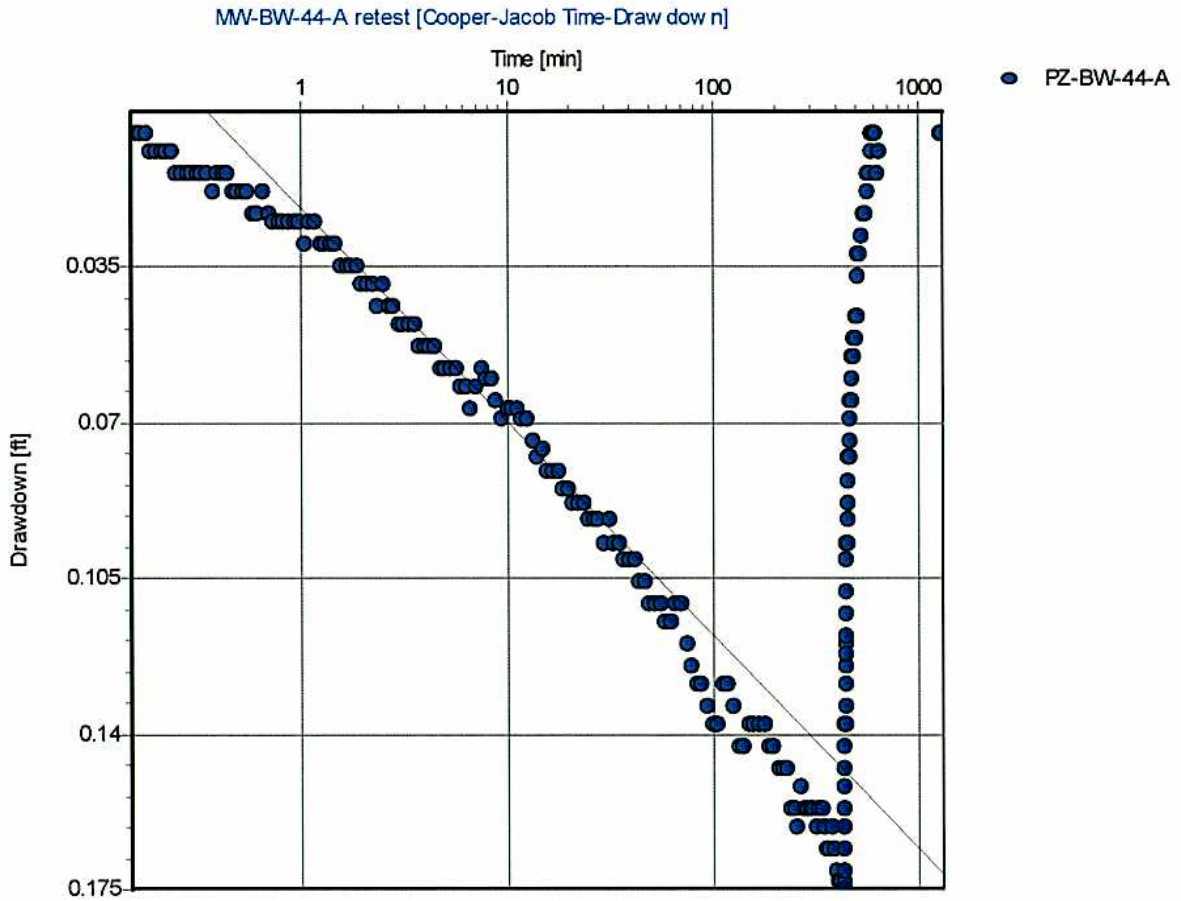
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Pumping Test: MW-BW-44-A retest

Analysis Method: Cooper-Jacob Time-Drawdown

Analysis Results:	Transmissivity:	1.10E+4 [ft ² /d]	Conductivity:	6.12E+2 [ft/d]
	Storativity:	1.49E-2		

Test parameters:	Pumping Well:	MW-BW-44-A	Aquifer Thickness:	18 [ft]
	Casing radius:	0.21 [ft]	Confined Aquifer	
	Screen length:	30 [ft]		
	Boring radius:	0.5 [ft]		
	Discharge Rate:	15 [U.S. gal/min]		

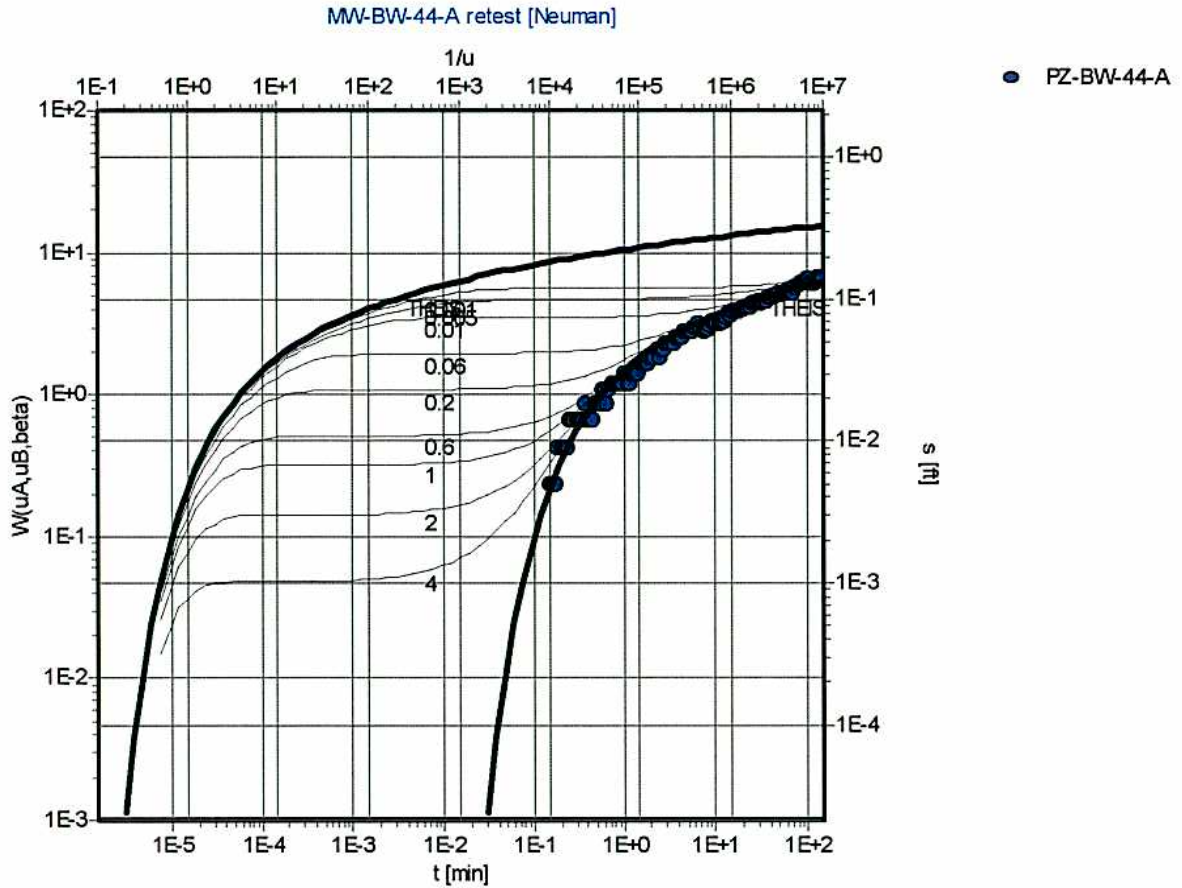


MW-BW-44-A Aquifer Test, Drawdown at PZ-BW-44-A
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FIGURE

E5-2

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Pumping Test: MW-BW-44-A retest

Analysis Method: Neuman

<u>Analysis Results:</u>	Transmissivity:	1.08E+4 [ft ² /d]	Conductivity:	5.99E+2 [ft/d]
	Storativity:	1.09E-6	Specific Yield:	1.09E-2

<u>Test parameters:</u>	Pumping Well:	MW-BW-44-A	Aquifer Thickness:	18 [ft]
	Casing radius:	0.21 [ft]	Beta:	0.005
	Screen length:	30 [ft]		
	Boring radius:	0.5 [ft]		
	Discharge Rate:	15 [U.S. gal/min]		
	LOG(Sy/S):	4		



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MW-BW-44-A Aquifer Test, Drawdown at PZ-BW-44-A
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FIGURE

E5-3

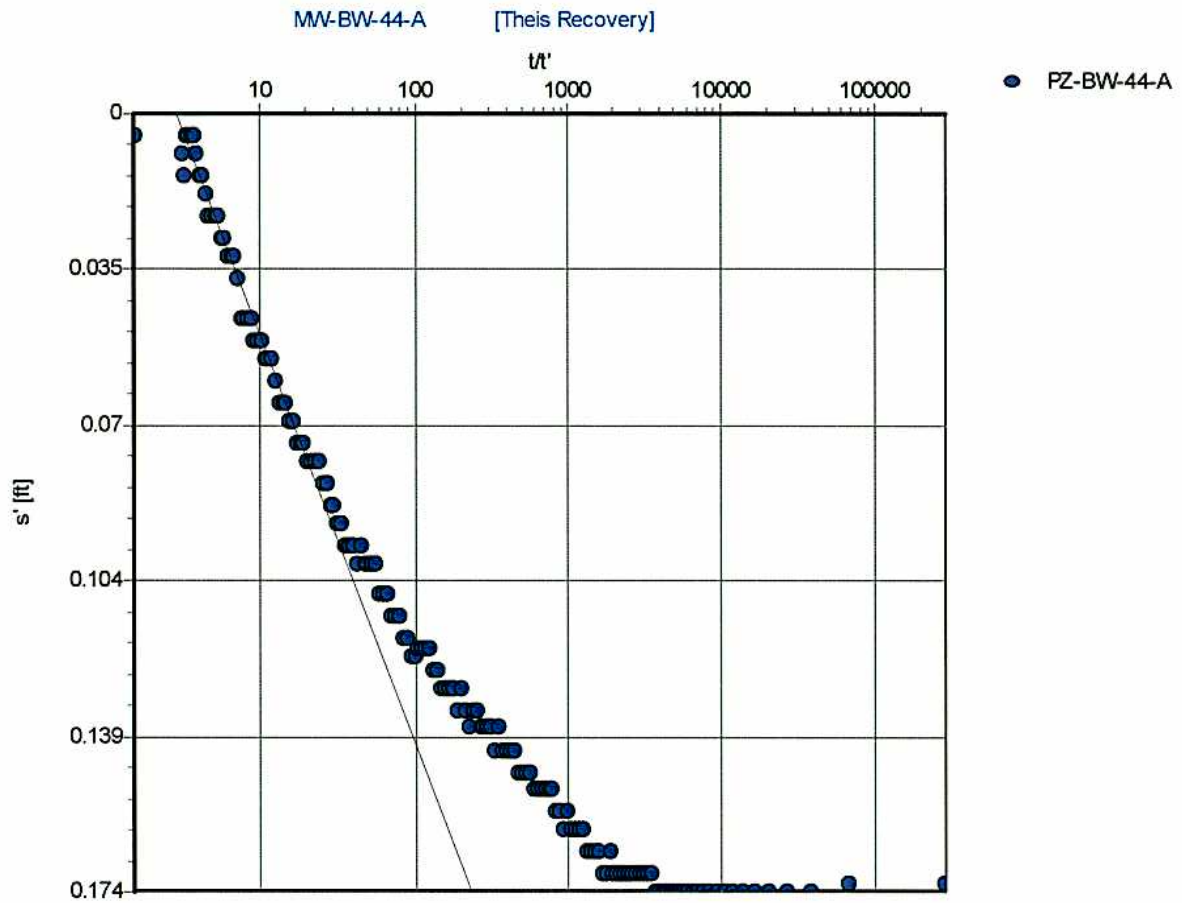
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Pumping Test: MW-BW-44-A

Analysis Method: Theis Recovery

Analysis Results: Transmissivity: 5.76E+3 [ft²/d] Conductivity: 3.20E+2 [ft/d]

Test parameters: Pumping Well: MW-BW-44-A Aquifer Thickness: 18 [ft]
 Casing radius: 0.21 [ft] Unconfined Aquifer
 Screen length: 30 [ft]
 Boring radius: 0.5 [ft]
 Discharge Rate: 15 [U.S. gal/min]
 Pumping Time: 437.75 [min]



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MW-BW-44-A Aquifer Test, Recovery at PZ-BW-44-A
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FIGURE

E5-4

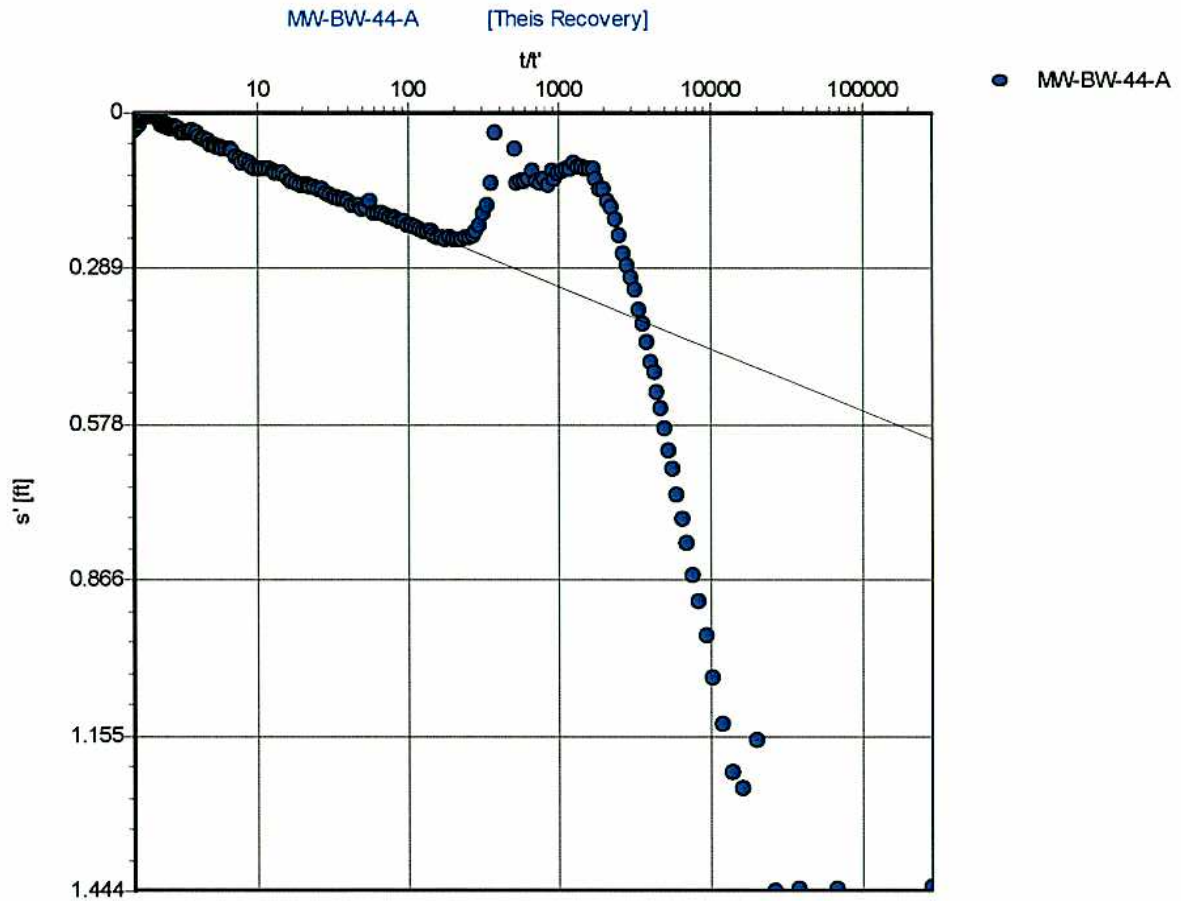
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Pumping Test: MW-BW-44-A

Analysis Method: Theis Recovery

Analysis Results: Transmissivity: 4.60E+3 [ft²/d] Conductivity: 2.55E+2 [ft/d]

Test parameters:

Pumping Well:	MW-BW-44-A	Aquifer Thickness:	18 [ft]
Casing radius:	0.21 [ft]	Confined Aquifer	
Screen length:	30 [ft]		
Boring radius:	0.5 [ft]		
Discharge Rate:	15 [U.S. gal/min]		
Pumping Time	437.75 [min]		



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MW-BW-44-A Aquifer Test, Recovery at MW-BW-44-A
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FIGURE

E5-5

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