

ANALYSIS OF MODEL RESIDUALS

residual = observed - calculated
 weighted residual = residual * weight

Weighted Residual Statistics:
 Number of residuals..... 42
 Number of estimated parameters.... 2
 Degrees of freedom..... 40
 Residual mean..... 0.06149
 Residual standard deviation..... 0.1655
 Residual variance..... 0.0274

Model Residuals:

Time	Observed	Calculated	Residual	Weight
3.5E-005	2.27	1.8186	0.45145	1
4.6E-005	1.99	1.6551	0.33492	1
5.8E-005	1.75	1.4935	0.25654	1
6.9E-005	1.52	1.3592	0.16079	1
8.1E-005	1.31	1.2265	0.083524	1
9.3E-005	1.16	1.1067	0.053292	1
0.000104	1.03	1.0072	0.022777	1
0.000116	0.92	0.90887	0.011134	10
0.000127	0.82	0.82717	-0.0071654	10
0.000139	0.74	0.74639	-0.0063907	10
0.00015	0.66	0.6793	-0.019296	10
0.000162	0.6	0.61296	-0.012961	10
0.000174	0.54	0.5531	-0.013104	10
0.000185	0.49	0.50338	-0.013384	10
0.000197	0.45	0.45423	-0.0042274	10
0.000208	0.41	0.4134	-0.0033957	10
0.00022	0.38	0.37303	0.0069733	10
0.000231	0.34	0.33949	0.00050561	10
0.000289	0.23	0.2066	0.023396	10
0.000347	0.17	0.12573	0.044268	10
0.000405	0.13	0.076516	0.053484	10
0.000463	0.1	0.046565	0.053435	1
0.000521	0.08	0.028338	0.051662	1
0.000579	0.07	0.017245	0.052755	1
0.000637	0.06	0.010495	0.049505	1
0.000694	0.05	0.0064418	0.043558	1
0.000752	0.04	0.0039203	0.03608	1
0.00081	0.04	0.0023857	0.037614	1
0.000868	0.04	0.0014519	0.038548	1
0.000926	0.03	0.00088356	0.029116	1
0.000984	0.03	0.0005377	0.029462	1
0.001042	0.03	0.00032723	0.029673	1
0.0011	0.03	0.00019914	0.029801	1
0.001157	0.02	0.00012223	0.019878	1
0.001215	0.02	7.4386E-005	0.019926	1
0.001273	0.02	4.5269E-005	0.019955	1
0.001331	0.02	2.7549E-005	0.019972	1
0.001389	0.02	1.6765E-005	0.019983	1
0.001736	0.01	8.5896E-007	0.0099991	1
0.002083	0.01	4.4008E-008	0.01	1
0.002431	0.01	2.2355E-009	0.01	1
0.003472	0.01	3.0065E-013	0.01	1

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 RESULTS FROM VISUAL CURVE MATCHING

KRRFFS SLUG		TEST DATA		
ELAPSED	HERMIT	ELAPSED	DRAWDOWN	WEIGHT
TIME	VALUE	TIME		
(MIN)		(DAYS)		
0.000000	9.78	0.000000	1.42	1
0.003300	9.42	0.000002	1.78	1
0.006600	9.59	0.000005	1.61	1
0.009900	9.68	0.000007	1.52	1
0.013300	9.27	0.000009	1.93	1
0.016600	9.26	0.000012	1.94	1
0.020000	9.01	0.000014	2.19	1
0.023300	8.78	0.000016	2.42	1
0.026600	8.94	0.000018	2.26	1
0.030000	9.05	0.000021	2.15	1
0.033300	8.86	0.000023	2.34	1
0.050000	8.93	0.000035	2.27	1
0.066600	9.21	0.000046	1.99	1
0.083300	9.45	0.000058	1.75	1
0.100000	9.68	0.000069	1.52	1
0.116600	9.89	0.000081	1.31	1
0.133300	10.04	0.000093	1.16	1
0.150000	10.17	0.000104	1.03	1
0.166600	10.28	0.000116	0.92	1
0.183300	10.38	0.000127	0.82	1
0.200000	10.46	0.000139	0.74	1
0.216600	10.54	0.000150	0.66	1
0.233300	10.60	0.000162	0.60	1
0.250000	10.66	0.000174	0.54	1
0.266600	10.71	0.000185	0.49	1
0.283300	10.75	0.000197	0.45	1
0.300000	10.79	0.000208	0.41	1
0.316600	10.82	0.000220	0.38	1
0.333300	10.86	0.000231	0.34	1
0.416700	10.97	0.000289	0.23	1
0.500000	11.03	0.000347	0.17	1
0.583300	11.07	0.000405	0.13	1
0.666700	11.10	0.000463	0.10	1
0.750000	11.12	0.000521	0.08	1
0.833300	11.13	0.000579	0.07	1
0.916700	11.14	0.000637	0.06	1
1.000000	11.15	0.000694	0.05	1
1.083300	11.16	0.000752	0.04	1
1.166700	11.16	0.000810	0.04	1
1.250000	11.16	0.000868	0.04	1

	KRRFFS SLUG	TEST DATA			
ELAPSED	HERMIT	ELAPSED	DRAWDOWN	WEIGHT	
TIME	VALUE	TIME			
(MIN)		(DAYS)			
1.333300	11.17	0.000926	0.03	1	
1.416600	11.17	0.000984	0.03	1	
1.500000	11.17	0.001042	0.03	1	
1.583300	11.17	0.001100	0.03	1	
1.666700	11.18	0.001157	0.02	1	
1.750000	11.18	0.001215	0.02	1	
1.833300	11.18	0.001273	0.02	1	
1.916700	11.18	0.001331	0.02	1	
2.000000	11.18	0.001389	0.02	1	
2.500000	11.19	0.001736	0.01	1	
3.000000	11.19	0.002083	0.01	1	
3.500000	11.19	0.002431	0.01	1	
4.000000	11.20	0.002778	0.00	1	
4.500000	11.23	0.003125	-0.03	1	
5.000000	11.19	0.003472	0.01	1	
5.500000	11.20	0.003819	0.00	1	
6.000000	11.20	0.004167	0.00	1	
6.500000	11.20	0.004514	0.00	1	
7.000000	11.20	0.004861	0.00	1	
7.500000	11.20	0.005208	0.00	1	
8.000000	11.20	0.005556	0.00	1	
8.500000	11.20	0.005903	0.00	1	
9.000000	11.20	0.006250	0.00	1	
9.500000	11.20	0.006597	0.00	1	
10.000000	11.20	0.006944	0.00	1	
END					

KRRFFS SLUG		TEST DATA		
ELAPSED TIME (MIN)	HERMIT VALUE	ELAPSED TIME (DAYS)	DRAWDOWN	WEIGHT
This is the slug test data for well KRRF-FS which is the farfield shallow well at Transect F.				
TD = 15 ft				
CD = 10 ft				
DTW = (7.20 - 4.50) = 2.70 ft below land surface.				
Rc = 1 in = 0.0833 ft				
Rw = 3 in = 0.250 ft				
screen length = 5 ft				
saturated thickness = H = (35.00 - 2.70) = 32.30 ft				
Static height of water in well = Lw = (15.00 - 2.70) = 12.30				
It appears that the aquifer extends to a depth of 35 feet. Therefore, a value of 35 feet was used to estimate the values for Lw.				
Calculations for volume of slug				
Rs = 0.6 in = 0.05 ft				
Ls = 10.2 ft = length of slug				
Vs = 3.14 * Rs ² * Ls				
Vs = 0.08007				
Calculations for Ho				
Ho = Vs / (3.14 * Rc ²)				
Ho = 3.67				

Bouwer-Rice → Unconfined