Appendix 7N-F

Slug Test Plots

INCORPORATED
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A Q T E S O L V R E S U L T S
Version 1.10

05/12/92 00:21:42

TEST DESCRIPTION

Data set..... DH1SLUG1.AQT
Data set title..... DH-1A SPRING CANYON SLUG INJECT. TEST #1
Company..... EarthFax Engineering
Project..... UC-192-06
Client..... CO-OP Mine
Location..... Huntington Canyon
Test date..... 9-25-91
Test well..... DH-1A

Knowns and Constants:
- No. of data points..... 1389
- Radius of well casing..... 0.1
- Radius of well..... 0.1
- Aquifer saturated thickness..... 70
- Well screen length..... 20
- Static height of water in well..... 70
- Log(Re/Rw)..... 4.94
- A, B, C..... 0.000, 0.000, 6.905

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ANALYTICAL METHOD

Bouwer-Rice (Unconfined Aquifer Slug Test)

RESULTS FROM STATISTICAL CURVE MATCHING

STATISTICAL MATCH PARAMETER ESTIMATES

	Estimate		Std. Error
K =	1.0142E-004	+/-	7.9107E-006
y0 =	5.8607E-001	+/-	5.9286E-003

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ANALYSIS OF MODEL RESIDUALS

residual = calculated - observed
weighted residual = residual * weight

Weighted Residual Statistics:
- Number of residuals..... 174
- Number of estimated parameters.... 2
- Degrees of freedom..... 172
- Residual mean..... 2.459E-005
- Residual standard deviation..... 0.0367

Residual variance..... 0.001347

Model Residuals:

Time	Observed	Calculated	Residual	Weight
0.016667	1.0033	0.58527	0.41803	1
0.033333	0.76386	0.58446	0.1794	1
0.05	0.62418	0.58367	0.040515	1
0.066667	0.57429	0.58287	-0.0085768	1
0.083333	0.49447	0.58207	-0.0876	1
0.1	0.53438	0.58127	-0.046893	1
0.11667	0.57429	0.58048	-0.0061882	1
0.13333	0.59425	0.57968	0.014566	1
0.15	0.57879	0.57889	-0.0001014	1
0.16667	0.57429	0.5781	-0.0038094	1
0.18333	0.57429	0.57731	-0.003019	1
0.2	0.57429	0.57652	-0.0022292	1
0.21667	0.57429	0.57573	-0.0014404	1
0.23333	0.57429	0.57494	-0.00065321	1
0.25	0.56431	0.57416	-0.0098466	1
0.26667	0.56431	0.57337	-0.0090611	1
0.28333	0.56431	0.57259	-0.0082771	1
0.3	0.56431	0.5718	-0.0074938	1
0.31667	0.56431	0.57102	-0.0067115	1
0.33333	0.56431	0.57024	-0.0059307	1
0.35	0.56431	0.56946	-0.0051506	1
0.36667	0.56431	0.56868	-0.0043715	1
0.38333	0.56431	0.5679	-0.0035939	1
0.4	0.55434	0.56713	-0.012787	1
0.41667	0.55434	0.56635	-0.012011	1
0.43333	0.55434	0.56558	-0.011237	1
0.45	0.55434	0.5648	-0.010463	1
0.46667	0.55434	0.56403	-0.0096902	1
0.48333	0.55434	0.56326	-0.008919	1
0.5	0.55434	0.56249	-0.0081484	1
0.51667	0.55884	0.56172	-0.0028789	1
0.53333	0.55434	0.56095	-0.0066[illegible]	1
0.55	0.55434	0.56018	-0.005843[illegible]	1
0.56667	0.55434	0.55942	-0.005077	1
0.58333	0.54436	0.55865	-0.014292	1
0.6	0.54436	0.55789	-0.013528	1
0.61667	0.54436	0.55712	-0.012765	1
0.63333	0.54436	0.55636	-0.012003	1
0.65	0.54886	0.5556	-0.0067416	1
0.66667	0.54436	0.55484	-0.010481	1
0.68333	0.54436	0.55408	-0.0097229	1
0.7	0.54436	0.55332	-0.008964[illegible]	1
0.71667	0.54436	0.55257	-0.0082078	1
0.73333	0.53438	0.55181	-0.017432	1
0.75	0.54436	0.55106	-0.0066973	1
0.76667	0.54436	0.5503	-0.0059434	1
0.78333	0.53438	0.54955	-0.015171	1
0.8	0.53438	0.5488	-0.014419	1
0.81667	0.53438	0.54805	-0.013668	1
0.83333	0.53438	0.5473	-0.012919	1
0.85	0.53438	0.54655	-0.01217	1

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0.86667	0.53438	0.5458	-0.011422	1
0.88333	0.53438	0.54506	-0.010676	1
0.9	0.53438	0.54431	-0.0099305	1
0.91667	0.53438	0.54357	-0.0091858	1
0.93333	0.53438	0.54282	-0.0084426	1
0.95	0.53888	0.54208	-0.0031999	1
0.96667	0.53438	0.54134	-0.0069583	1
0.98333	0.5244	0.5406	-0.016198	1
1	0.5244	0.53986	-0.015459	1
1.0167	0.5244	0.53912	-0.014719	1
1.0333	0.5244	0.53838	-0.013984	1
1.05	0.5289	0.53765	-0.0087462	1
1.0667	0.5244	0.53691	-0.012509	1
1.0833	0.5244	0.53618	-0.011778	1
1.1	0.5244	0.53544	-0.011043	1
1.1167	0.5244	0.53471	-0.010309	1
1.1333	0.5244	0.53398	-0.0095807	1
1.15	0.5244	0.53325	-0.0088488	1
1.1667	0.5244	0.53252	-0.008118	1
1.1833	0.5244	0.53179	-0.0073925	1
1.2	0.5289	0.53106	-0.0021636	1
1.2167	0.5244	0.53034	-0.0059357	1
1.2333	0.51443	0.52961	-0.015183	1
1.25	0.51443	0.52889	-0.014457	1
1.2667	0.51443	0.52816	-0.013732	1
1.2833	0.51443	0.52744	-0.013013	1
1.3	0.51443	0.52672	-0.01229	1
1.3167	0.51443	0.526	-0.011568	1
1.3333	0.51443	0.52528	-0.010851	1
1.35	0.51443	0.52456	-0.010132	1
1.3667	0.51443	0.52384	-0.0094126	1
1.3833	0.51443	0.52313	-0.0086989	1
1.4	0.51443	0.52241	-0.0079819	1
1.4167	0.51443	0.5217	-0.0072659	1
1.4333	0.51443	0.52099	-0.0065552	1
1.45	0.51443	0.52027	-0.0058411	1
1.4667	0.51443	0.51956	-0.0051281	1
1.4833	0.51443	0.51885	-0.0044202	1
1.5	0.51443	0.51814	-0.0037[illegible]	1
1.5167	0.51443	0.51743	-0.002999	1
1.5333	0.51443	0.51672	-0.002294	1
1.55	0.50445	0.51602	-0.011566	1
1.5667	0.50445	0.51531	-0.010859	1
1.5833	0.50445	0.51461	-0.010157	1
1.6	0.50445	0.5139	-0.0094512	1
1.6167	0.50445	0.5132	-0.0087469	1
1.6333	0.50445	0.5125	-0.0080477	1
1.65	0.50445	0.5118	-0.0073453	1
1.6667	0.50445	0.51109	-0.0066438	1
1.6833	0.50445	0.5104	-0.0059475	1
1.7	0.50445	0.5097	-0.005248	1
1.7167	0.50445	0.509	-0.0045494	1
1.7333	0.50445	0.50831	-0.003856	1
1.75	0.50445	0.50761	-0.0031593	1
1.7667	0.50445	0.50691	-0.0024636	1
1.7833	0.50445	0.50622	-0.001773	1
1.8	0.50445	0.50553	-0.0010792	1
1.8167	0.50445	0.50484	-0.0003863	1

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1.8333	0.50445	0.50415	0.00030148	1
1.85	0.50445	0.50346	0.00099245	1
1.8667	0.50445	0.50277	0.0016825	1
1.8833	0.50445	0.50208	0.0023674	1
1.9	0.49447	0.50139	-0.0069244	1
1.9167	0.49447	0.50071	-0.0062372	1
1.9333	0.49447	0.50003	-0.0055551	1
1.95	0.49447	0.49934	-0.0048697	1
1.9667	0.49447	0.49866	-0.0041854	1
1.9833	0.49447	0.49798	-0.003506	1
2	0.49447	0.49729	-0.0028235	1
2.0167	0.49447	0.49661	-0.0021419	1
2.0333	0.49447	0.49594	-0.0014653	1
2.05	0.49447	0.49526	-0.00078562	1
2.0667	0.49447	0.49458	-0.00010684	1
2.0833	0.49447	0.4939	0.00056696	1
2.1	0.49447	0.49323	0.0012439	1
2.1167	0.49447	0.49255	0.0019199	1
2.1333	0.49447	0.49188	0.0025909	1
2.15	0.49447	0.4912	0.0032651	1
2.1667	0.49447	0.49053	0.0039383	1
2.1833	0.49447	0.48986	0.0046066	1
2.2	0.49447	0.48919	0.005278	1
2.2167	0.49447	0.48852	0.0059485	1
2.2333	0.49447	0.48786	0.006614	1
2.25	0.48449	0.48719	-0.0026973	1
2.2667	0.49447	0.48652	0.0079504	1
2.2833	0.49447	0.48586	0.0086132	1
2.3	0.48449	0.48519	-0.00070086	1
2.3167	0.48449	0.48453	-3.5871E-005	1
2.3333	0.49447	0.48387	0.010604	1
2.35	0.48449	0.4832	0.0012874	1
2.3667	0.48449	0.48254	0.0019497	1
2.3833	0.48449	0.48188	0.0026071	1
2.4	0.48449	0.48122	0.0032675	1
2.4167	0.48449	0.48056	0.0039271	1
2.4333	0.48449	0.47991	0.0045818	1
2.45	0.48449	0.47925	0.0052395	1
2.4667	0.48449	0.47859	0.0058964	1
2.4833	0.48449	0.47794	0.0065484	1
2.5	0.48449	0.47729	0.0072035	1
2.5167	0.48449	0.47663	0.0078576	1
2.5333	0.48449	0.47598	0.008507	1
2.55	0.48449	0.47533	0.0091594	1
2.5667	0.48449	0.47468	0.0098108	1
2.5833	0.48449	0.47403	0.010458	1
2.6	0.48449	0.47338	0.011107	1
2.6167	0.48449	0.47273	0.011756	1
2.6333	0.48449	0.47209	0.0124	1
2.65	0.48449	0.47144	0.013047	1
2.6667	0.48449	0.4708	0.013693	1
2.6833	0.48449	0.47016	0.014335	1
2.7	0.48449	0.46951	0.014979	1
2.7167	0.48449	0.46887	0.015623	1
2.7333	0.479	0.46823	0.010771	1
2.75	0.48449	0.46759	0.016903	1
2.7667	0.47452	0.46695	0.0075739	1
2.7833	0.47452	0.46631	0.0082101	1

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2.8	0.47452	0.46567	0.0088492	1
2.8167	0.479	0.46503	0.013967	1
2.8333	0.47452	0.4644	0.010121	1
2.85	0.47452	0.46376	0.010757	1
2.8667	0.47452	0.46313	0.011393	1
2.8833	0.47452	0.4625	0.012024	1
2.9	0.47452	0.46186	0.012658	1

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RESULTS FROM VISUAL CURVE MATCHING

VISUAL MATCH PARAMETER ESTIMATES

	Estimate
K =	1.0142E-004
y0 =	5.8607E-001

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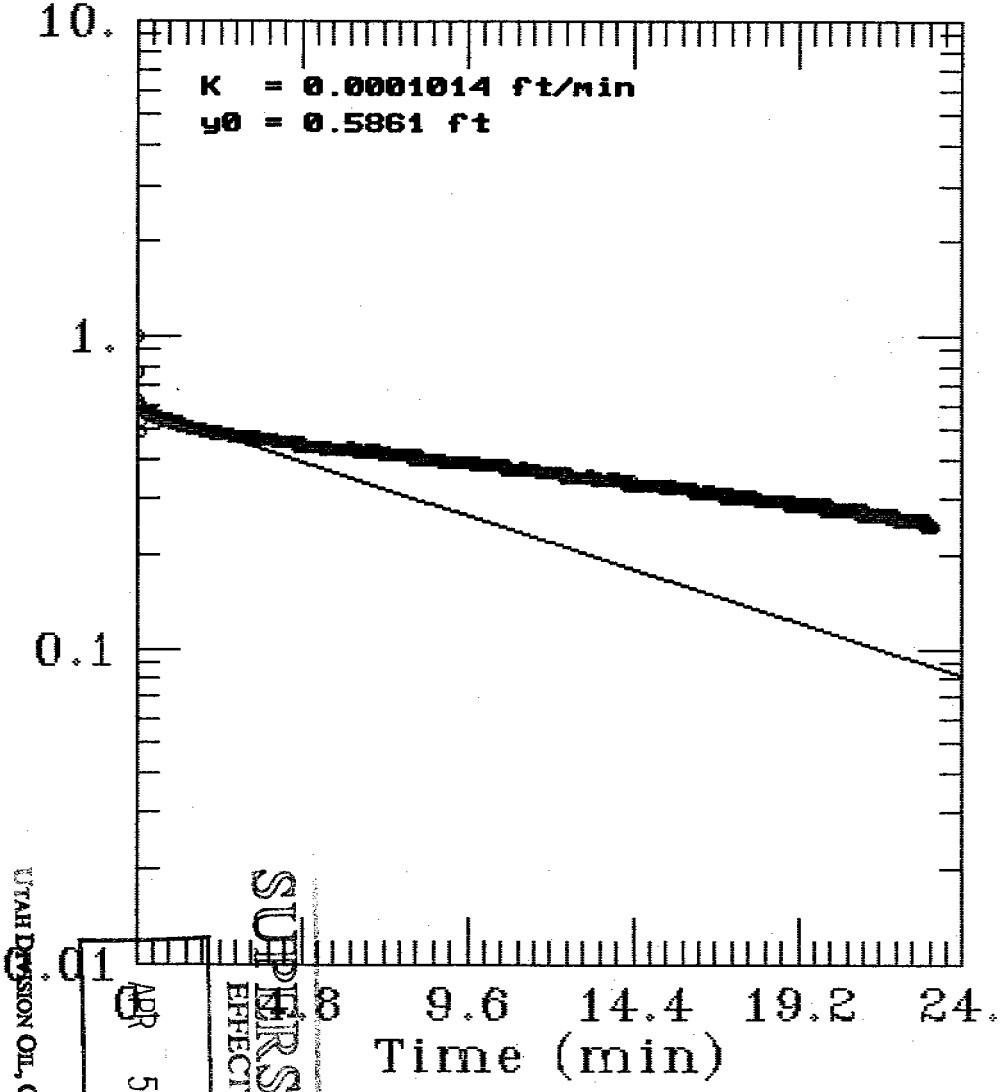
DH-1A SPRING CANYON SLUG INJECT. TEST #1



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TEST DESCRIPTION

Data set..... STDH1AS3.AQT
Data set title..... DH-1A STORRS SLUG INJECTION TEST #3
Company..... EarthFax Engineering
Project..... UC-192-06
Client..... CO-OP Mine
Location..... Huntington Canyon
Test date..... 9-25-91
Test well..... DH-1A

Knowns and Constants:
No. of data points..... 1406
Radius of well casing..... 0.1
Radius of well..... 0.1
Aquifer saturated thickness..... 97
Well screen length..... 95
Static height of water in well..... 97
Log(Re/Rw)..... 5.784
A, B, C..... 0.000, 0.000, 12.295

ANALYTICAL METHOD

Bouwer-Rice (Unconfined Aquifer Slug Test)

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RESULTS FROM STATISTICAL CURVE MATCHING

STATISTICAL MATCH PARAMETER ESTIMATES

	Estimate		Std. Error
K =	2.1560E-005	+/-	3.2967E-007
y0 =	4.2164E-001	+/-	3.7066E-003

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ANALYSIS OF MODEL RESIDUALS

residual = calculated - observed
weighted residual = residual * weight

Weighted Residual Statistics:
Number of residuals..... 1406
Number of estimated parameters.... 2
Degrees of freedom..... 1404
Residual mean..... -0.0002625
Residual standard deviation..... 0.04893
Residual variance..... 0.002394

odel Residuals:

Time	Observed	Calculated	Residual	Weight
2.7319E-009	1.6201	0.42164	1.1985	1
0.016667	1.2207	0.42115	0.79955	1
0.033333	1.1209	0.42065	0.70025	1
0.05	0.64886	0.42015	0.22871	1
0.066667	0.17236	0.41966	-0.2473	1
0.083333	0.29947	0.41916	-0.11969	1
0.1	0.42198	0.41867	0.0033118	1
0.11667	0.47189	0.41817	0.053716	1
0.13333	0.42198	0.41768	0.004299	1
0.15	0.39931	0.41719	-0.017878	1
0.16667	0.37206	0.4167	-0.044636	1
0.18333	0.44922	0.4162	0.033015	1
0.2	0.42198	0.41571	0.0062665	1
0.21667	0.44922	0.41522	0.033997	1
0.23333	0.37206	0.41473	-0.042673	1
0.25	0.39931	0.41424	-0.014934	1
0.26667	0.37206	0.41376	-0.041695	1
0.28333	0.39931	0.41327	-0.013957	1
0.3	0.37206	0.41278	-0.04072	1
0.31667	0.39931	0.41229	-0.012983	1
0.33333	0.37206	0.41181	-0.039746	1
0.35	0.39931	0.41132	-0.012011	1
0.36667	0.37206	0.41084	-0.038775	1
0.38333	0.39931	0.41035	-0.011041	1
0.4	0.39931	0.40987	-0.010557	1
0.41667	0.39931	0.40938	-0.010073	1
0.43333	0.37206	0.4089	-0.03684	1
0.45	0.39931	0.40842	-0.0091078	1
0.46667	0.39931	0.40794	-0.008626	1
0.48333	0.37206	0.40745	-0.035395	1
0.5	0.39931	0.40697	-0.0076641	1
0.51667	0.39931	0.40649	-0.007184	1
0.53333	0.37206	0.40601	-0.033954	1
0.55	0.37206	0.40554	-0.033475	1
0.56667	0.37206	0.40506	-0.032997	1
0.58333	0.39931	0.40458	-0.0052693	1
0.6	0.37206	0.4041	-0.032042	1
0.61667	0.37206	0.40363	-0.031565	1
0.63333	0.37206	0.40315	-0.031089	1
0.65	0.39931	0.40267	-0.0033635	1
0.66667	0.39931	0.4022	-0.0028885	1
0.68333	0.39931	0.40172	-0.002414	1
0.7	0.39931	0.40125	-0.0019401	1
0.71667	0.37206	0.40078	-0.028717	1
0.73333	0.37206	0.4003	-0.028244	1
0.75	0.39931	0.39983	-0.00052175	1
0.76667	0.39931	0.39936	-5.0068E-005	1
0.78333	0.39931	0.39889	0.00042103	1
0.8	0.37206	0.39842	-0.026358	1
0.81667	0.39931	0.39795	0.0013616	1
0.83333	0.39931	0.39748	0.0018311	1
0.85	0.37206	0.39701	-0.02495	1

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0.86667	0.37206	0.39654	-0.024482	1
0.88333	0.39931	0.39607	0.0032361	1
0.9	0.39931	0.39561	0.0037033	1
0.91667	0.39931	0.39514	0.00417	1
0.93333	0.39931	0.39467	0.0046362	1
0.95	0.39931	0.39421	0.0051018	1
0.96667	0.39931	0.39374	0.0055668	1
0.98333	0.39931	0.39328	0.0060313	1
1	0.37206	0.39281	-0.020755	1
1.0167	0.39931	0.39235	0.0069587	1
1.0333	0.37206	0.39189	-0.019829	1
1.05	0.39931	0.39143	0.0078838	1
1.0667	0.39931	0.39096	0.0083456	1
1.0833	0.39931	0.3905	0.0088067	1
1.1	0.39931	0.39004	0.0092674	1
1.1167	0.39931	0.38958	0.0097276	1
1.1333	0.39931	0.38912	0.010187	1
1.15	0.37206	0.38866	-0.016604	1
1.1667	0.32213	0.38821	-0.066075	1
1.1833	0.32213	0.38775	-0.065617	1
1.2	0.32213	0.38729	-0.06516	1
1.2167	0.34938	0.38683	-0.037453	1
1.2333	0.39931	0.38638	0.012933	1
1.25	0.37206	0.38592	-0.013861	1
1.2667	0.37206	0.38547	-0.013406	1
1.2833	0.34938	0.38501	-0.035631	1
1.3	0.37206	0.38456	-0.012497	1
1.3167	0.39931	0.3841	0.015207	1
1.3333	0.32213	0.38365	-0.06152	1
1.35	0.34938	0.3832	-0.033817	1
1.3667	0.34938	0.38275	-0.033365	1
1.3833	0.34938	0.38229	-0.032914	1
1.4	0.39931	0.38184	0.017467	1
1.4167	0.34938	0.38139	-0.032012	1
1.4333	0.37206	0.38094	-0.0088825	1
1.45	0.34938	0.38049	-0.031113	1
1.4667	0.39931	0.38004	0.019266	1
1.4833	0.34938	0.3796	-0.030216	1
1.5	0.34938	0.37915	-0.029768	1
1.5167	0.34938	0.3787	-0.029321	1
1.5333	0.34938	0.37825	-0.028874	1
1.55	0.34938	0.37781	-0.028428	1
1.5667	0.34938	0.37736	-0.027982	1
1.5833	0.34938	0.37692	-0.027537	1
1.6	0.34938	0.37647	-0.027092	1
1.6167	0.34938	0.37603	-0.026648	1
1.6333	0.34938	0.37558	-0.026205	1
1.65	0.34938	0.37514	-0.025762	1
1.6667	0.34938	0.3747	-0.025319	1
1.6833	0.34938	0.37426	-0.024877	1
1.7	0.34938	0.37382	-0.024435	1
1.7167	0.32213	0.37337	-0.051244	1
1.7333	0.34938	0.37293	-0.023554	1
1.75	0.32213	0.37249	-0.050364	1
1.7667	0.32213	0.37205	-0.049925	1
1.7833	0.32213	0.37162	-0.049486	1
1.8	0.34938	0.37118	-0.021797	1
1.8167	0.32213	0.37074	-0.048609	1

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1.8333	0.34938	0.3703	-0.020922	1
1.85	0.32213	0.36987	-0.047735	1
1.8667	0.34938	0.36943	-0.020049	1
1.8833	0.32213	0.36899	-0.046863	1
1.9	0.34938	0.36856	-0.019178	1
1.9167	0.32213	0.36812	-0.045993	1
1.9333	0.34938	0.36769	-0.018309	1
1.95	0.32213	0.36726	-0.045125	1
1.9667	0.34938	0.36682	-0.017442	1
1.9833	0.32213	0.36639	-0.044259	1
2	0.34938	0.36596	-0.016577	1
2.0167	0.32213	0.36553	-0.043395	1
2.0333	0.34938	0.36509	-0.015714	1
2.05	0.34938	0.36466	-0.015283	1
2.0667	0.34938	0.36423	-0.014853	1
2.0833	0.34938	0.3638	-0.014423	1
2.1	0.32213	0.36337	-0.041244	1
2.1167	0.34938	0.36295	-0.013565	1
2.1333	0.34938	0.36252	-0.013137	1
2.15	0.32213	0.36209	-0.03996	1
2.1667	0.34938	0.36166	-0.012282	1
2.1833	0.32213	0.36124	-0.039106	1
2.2	0.34938	0.36081	-0.01143	1
2.2167	0.32213	0.36038	-0.038254	1
2.2333	0.32213	0.35996	-0.037829	1
2.25	0.34938	0.35953	-0.010154	1
2.2667	0.34938	0.35911	-0.0097301	1
2.2833	0.32213	0.35869	-0.036557	1
2.3	0.34938	0.35826	-0.0088835	1
2.3167	0.32213	0.35784	-0.035711	1
2.3333	0.32213	0.35742	-0.035289	1
2.35	0.34938	0.357	-0.007617	1
2.3667	0.32213	0.35658	-0.034446	1
2.3833	0.34938	0.35616	-0.0067753	1
2.4	0.34938	0.35574	-0.0063551	1
2.4167	0.34938	0.35532	-0.0059354	1
2.4333	0.34938	0.3549	-0.0055164	1
2.45	0.34938	0.35448	-0.0050976	1
2.4667	0.32213	0.35406	-0.031929	1
2.4833	0.34938	0.35364	-0.0042619	1
2.5	0.34938	0.35322	-0.0038446	1
2.5167	0.32213	0.35281	-0.030678	1
2.5333	0.32213	0.35239	-0.030262	1
2.55	0.34938	0.35198	-0.002596	1
2.5667	0.32213	0.35156	-0.029431	1
2.5833	0.34938	0.35115	-0.0017661	1
2.6	0.34938	0.35073	-0.0013518	1
2.6167	0.34938	0.35032	-0.00093796	1
2.6333	0.32213	0.3499	-0.027775	1
2.65	0.32213	0.34949	-0.027362	1
2.6667	0.34938	0.34908	0.00030037	1
2.6833	0.32213	0.34867	-0.026538	1
2.7	0.32213	0.34826	-0.026127	1
2.7167	0.34938	0.34785	0.0015343	1
2.7333	0.34938	0.34744	0.0019445	1
2.75	0.32213	0.34703	-0.024896	1
2.7667	0.32213	0.34662	-0.024486	1
2.7833	0.34938	0.34621	0.0031726	1

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2.8	0.34938	0.3458	0.0035811	1
2.8167	0.32213	0.34539	-0.023261	1
2.8333	0.34938	0.34498	0.0043964	1
2.85	0.34938	0.34458	0.0048035	1
2.8667	0.32213	0.34417	-0.02204	1
2.8833	0.34938	0.34376	0.0056159	1
2.9	0.32213	0.34336	-0.021228	1
2.9167	0.34938	0.34295	0.0064267	1
2.9333	0.34938	0.34255	0.0068311	1
2.95	0.34938	0.34214	0.0072353	1
2.9667	0.34938	0.34174	0.007639	1
2.9833	0.34938	0.34134	0.008042	1
3	0.34938	0.34094	0.0084447	1
3.0167	0.32213	0.34053	-0.018403	1
3.0333	0.34938	0.34013	0.0092485	1
3.05	0.34938	0.33973	0.0096499	1
3.0667	0.34938	0.33933	0.010051	1
3.0833	0.32213	0.33893	-0.016799	1
3.1	0.34938	0.33853	0.010851	1
3.1167	0.34938	0.33813	0.01125	1
3.1333	0.34938	0.33773	0.011649	1
3.15	0.32213	0.33733	-0.015203	1
3.1667	0.32213	0.33693	-0.014805	1
3.1833	0.34938	0.33654	0.012843	1
3.2	0.34938	0.33614	0.01324	1
3.2167	0.32213	0.33574	-0.013614	1
3.2333	0.34938	0.33535	0.014032	1
3.25	0.34938	0.33495	0.014428	1
3.2667	0.34938	0.33456	0.014823	1
3.2833	0.32213	0.33416	-0.012032	1
3.3	0.34938	0.33377	0.015612	1
3.3167	0.34938	0.33337	0.016006	1
3.3333	0.34938	0.33298	0.016399	1
3.35	0.32213	0.33259	-0.010458	1
3.3667	0.34938	0.3322	0.017184	1
3.3833	0.34938	0.3318	0.017576	1
3.4	0.34938	0.33141	0.017968	1
3.4167	0.32213	0.33102	-0.0088914	1
3.4333	0.29947	0.33063	-0.031161	1
3.45	0.34938	0.33024	0.019139	1
3.4667	0.32213	0.32985	-0.0077213	1
3.4833	0.32213	0.32946	-0.0073323	1
3.5	0.29947	0.32907	-0.029104	1
3.5167	0.34938	0.32869	0.020695	1
3.5333	0.32213	0.3283	-0.0061677	1
3.55	0.32213	0.32791	-0.0057803	1
3.5667	0.29947	0.32752	-0.028053	1
3.5833	0.34938	0.32714	0.022243	1
3.6	0.32213	0.32675	-0.0046212	1
3.6167	0.32213	0.32637	-0.0042357	1
3.6333	0.27222	0.32598	-0.053784	1
3.65	0.34938	0.3256	0.023784	1
3.6667	0.34938	0.32521	0.024168	1
3.6833	0.32213	0.32483	-0.0026985	1
3.7	0.29947	0.32445	-0.024975	1
3.7167	0.29947	0.32406	-0.024592	1
3.7333	0.32213	0.32368	-0.0015503	1
3.75	0.27222	0.3233	-0.051078	1

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3.7667	0.29947	0.32292	-0.023447	1
3.7833	0.29947	0.32254	-0.023066	1
3.8	0.29947	0.32216	-0.022686	1
3.8167	0.27222	0.32178	-0.049555	1
3.8333	0.29947	0.3214	-0.021926	1
3.85	0.29947	0.32102	-0.021547	1
3.8667	0.29947	0.32064	-0.021168	1
3.8833	0.27222	0.32026	-0.04804	1
3.9	0.27222	0.31988	-0.047662	1
3.9167	0.29947	0.3195	-0.020035	1
3.9333	0.29947	0.31913	-0.019658	1
3.95	0.27222	0.31875	-0.046531	1
3.9667	0.29947	0.31838	-0.018905	1
3.9833	0.29947	0.318	-0.01853	1
4	0.29947	0.31762	-0.018155	1
4.0167	0.27222	0.31725	-0.04503	1
4.0333	0.29947	0.31688	-0.017406	1
4.05	0.29947	0.3165	-0.017032	1
4.0667	0.29947	0.31613	-0.016658	1
4.0833	0.27222	0.31576	-0.043536	1
4.1	0.29947	0.31538	-0.015913	1
4.1167	0.29947	0.31501	-0.015541	1
4.1333	0.29947	0.31464	-0.015169	1
4.15	0.27222	0.31427	-0.042048	1
4.1667	0.29947	0.3139	-0.014427	1
4.1833	0.29947	0.31353	-0.014057	1
4.2	0.29947	0.31316	-0.013687	1
4.2167	0.27222	0.31279	-0.040568	1
4.2333	0.29947	0.31242	-0.012949	1
4.25	0.29947	0.31205	-0.01258	1
4.2667	0.29947	0.31168	-0.012212	1
4.2833	0.27222	0.31131	-0.039095	1
4.3	0.29947	0.31095	-0.011477	1
4.3167	0.29947	0.31058	-0.01111	1
4.3333	0.27222	0.31021	-0.037994	1
4.35	0.27222	0.30985	-0.037628	1
4.3667	0.27222	0.30948	-0.037262	1
4.3833	0.29947	0.30912	-0.0096475	1
4.4	0.27222	0.30875	-0.036533	1
4.4167	0.27222	0.30839	-0.036168	1
4.4333	0.29947	0.30802	-0.0085548	1
4.45	0.29947	0.30766	-0.0081914	1
4.4667	0.29947	0.3073	-0.0078284	1
4.4833	0.27222	0.30694	-0.034716	1
4.5	0.27222	0.30657	-0.034354	1
4.5167	0.29947	0.30621	-0.0067421	1
4.5333	0.27222	0.30585	-0.033631	1
4.55	0.29947	0.30549	-0.0060201	1
4.5667	0.29947	0.30513	-0.0056597	1
4.5833	0.29947	0.30477	-0.0052999	1
4.6	0.29947	0.30441	-0.0049403	1
4.6167	0.27222	0.30405	-0.031831	1
4.6333	0.27222	0.30369	-0.031473	1
4.65	0.29947	0.30333	-0.0038642	1
4.6667	0.27222	0.30298	-0.030756	1
4.6833	0.27222	0.30262	-0.030399	1
4.7	0.27222	0.30226	-0.030042	1
4.7167	0.29947	0.30191	-0.0024353	1

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4.7333	0.29947	0.30155	-0.0020793	1
4.75	0.27222	0.30119	-0.028974	1
4.7667	0.27222	0.30084	-0.028618	1
4.7833	0.29947	0.30048	-0.0010134	1
4.8	0.29947	0.30013	-0.00065883	1
4.8167	0.27222	0.29977	-0.027555	1
4.8333	0.29947	0.29942	4.8794E-005	1
4.85	0.29947	0.29907	0.00040209	1
4.8667	0.27222	0.29872	-0.026495	1
4.8833	0.27222	0.29836	-0.026143	1
4.9	0.29947	0.29801	0.0014593	1
4.9167	0.29947	0.29766	0.0018109	1
4.9333	0.27222	0.29731	-0.025088	1
4.95	0.27222	0.29696	-0.024737	1
4.9667	0.29947	0.29661	0.0028631	1
4.9833	0.29947	0.29626	0.0032128	1
5	0.29947	0.29591	0.0035624	1
5.0167	0.27222	0.29556	-0.023338	1
5.0333	0.29947	0.29521	0.0042601	1
5.05	0.29947	0.29486	0.0046084	1
5.0667	0.29947	0.29451	0.0049563	1
5.0833	0.27222	0.29417	-0.021946	1
5.1	0.29947	0.29382	0.0056507	1
5.1167	0.29947	0.29347	0.0059974	1
5.1333	0.29947	0.29313	0.0063434	1
5.15	0.27222	0.29278	-0.020561	1
5.1667	0.29947	0.29244	0.0070348	1
5.1833	0.29947	0.29209	0.0073796	1
5.2	0.29947	0.29175	0.0077242	1
5.2167	0.27222	0.2914	-0.019282	1
5.2333	0.29947	0.29106	0.0084121	1
5.25	0.29947	0.29071	0.0087555	1
5.2667	0.29947	0.29037	0.0090985	1
5.2833	0.29947	0.29003	0.009441	1
5.3	0.29947	0.28969	0.0097832	1
5.3167	0.29947	0.28935	0.010125	1
5.3333	0.27222	0.289	-0.016784	1
5.35	0.27222	0.28866	-0.016443	1
5.3667	0.29947	0.28832	0.011148	1
5.3833	0.29947	0.28798	0.011488	1
5.4	0.27222	0.28764	-0.015422	1
5.4167	0.27222	0.2873	-0.015081	1
5.4333	0.29947	0.28696	0.012506	1
5.45	0.29947	0.28663	0.012844	1
5.4667	0.29947	0.28629	0.013183	1
5.4833	0.27222	0.28595	-0.01373	1
5.5	0.29947	0.28561	0.013858	1
5.5167	0.29947	0.28528	0.014195	1
5.5333	0.29947	0.28494	0.014531	1
5.55	0.27222	0.2846	-0.012589	1
5.5667	0.29947	0.28427	0.015203	1
5.5833	0.29947	0.28393	0.015538	1
5.6	0.27222	0.2836	-0.011377	1
5.6167	0.27222	0.28326	-0.011042	1
5.6333	0.27222	0.28293	-0.010708	1
5.65	0.29947	0.28259	0.016876	1
5.6667	0.27222	0.28226	-0.010041	1
5.6833	0.27222	0.28193	-0.0097081	1

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5.7	0.29947	0.2816	0.017875	1
5.7167	0.29947	0.28126	0.018207	1
5.7333	0.29947	0.28093	0.018539	1
5.75	0.27222	0.2806	-0.00838	1
5.7667	0.29947	0.28027	0.019201	1
5.7833	0.29947	0.27994	0.019532	1
5.8	0.29947	0.27961	0.019862	1
5.8167	0.27222	0.27928	-0.0070582	1
5.8333	0.29947	0.27895	0.020521	1
5.85	0.29947	0.27862	0.02085	1
5.8667	0.29947	0.27829	0.021179	1
5.8833	0.29947	0.27796	0.021507	1
5.9	0.29947	0.27763	0.021835	1
5.9167	0.29947	0.27731	0.022163	1
5.9333	0.27222	0.27698	-0.0047603	1
5.95	0.27222	0.27665	-0.0044335	1
5.9667	0.27222	0.27633	-0.004107	1
5.9833	0.29947	0.276	0.023469	1
6	0.29947	0.27568	0.023794	1
6.0167	0.29947	0.27535	0.02412	1
6.0333	0.24956	0.27503	-0.025466	1
6.05	0.29947	0.2747	0.024769	1
6.0667	0.27222	0.27438	-0.0021569	1
6.0833	0.27222	0.27405	-0.0018334	1
6.1	0.27222	0.27373	-0.00151	1
6.1167	0.29947	0.27341	0.026063	1
6.1333	0.27222	0.27308	-0.00086463	1
6.15	0.27222	0.27276	-0.00054242	1
6.1667	0.29947	0.27244	0.027029	1
6.1833	0.29947	0.27212	0.027351	1
6.2	0.27222	0.2718	0.00042176	1
6.2167	0.27222	0.27148	0.00074246	1
6.2333	0.29947	0.27116	0.028313	1
6.25	0.29947	0.27084	0.028633	1
6.2667	0.27222	0.27052	0.0017021	1
6.2833	0.27222	0.2702	0.0020211	1
6.3	0.27222	0.26988	0.0023399	1
6.3167	0.29947	0.26956	0.029908	1
6.3333	0.27222	0.26924	0.0029762	1
6.35	0.27222	0.26893	0.0032939	1
6.3667	0.22229	0.26861	-0.046319	1
6.3833	0.29947	0.26829	0.031178	1
6.4	0.29947	0.26798	0.031495	1
6.4167	0.27222	0.26766	0.0045607	1
6.4333	0.24956	0.26734	-0.017784	1
6.45	0.29947	0.26703	0.032442	1
6.4667	0.29947	0.26671	0.032757	1
6.4833	0.27222	0.2664	0.0058214	1
6.5	0.29947	0.26608	0.033386	1
6.5167	0.24956	0.26577	-0.01621	1
6.5333	0.27222	0.26546	0.0067631	1
6.55	0.27222	0.26514	0.0070783	1
6.5667	0.24956	0.26483	-0.015271	1
6.5833	0.29947	0.26452	0.034951	1
6.6	0.27222	0.26421	0.0080135	1
6.6167	0.22229	0.26389	-0.041605	1
6.6333	0.22229	0.26358	-0.041294	1
6.65	0.29947	0.26327	0.036197	1

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6.6667	0.27222	0.26296	0.0092581	1
6.6833	0.22229	0.26265	-0.040362	1
6.7	0.24956	0.26234	-0.012782	1
6.7167	0.24956	0.26203	-0.012472	1
6.7333	0.22229	0.26172	-0.039433	1
6.75	0.22229	0.26141	-0.039125	1
6.7667	0.22229	0.26111	-0.038816	1
6.7833	0.24956	0.2608	-0.011238	1
6.8	0.24956	0.26049	-0.01093	1
6.8167	0.22229	0.26018	-0.037893	1
6.8333	0.24956	0.25988	-0.010316	1
6.85	0.24956	0.25957	-0.01001	1
6.8667	0.27222	0.25926	0.012957	1
6.8833	0.22229	0.25896	-0.036668	1
6.9	0.24956	0.25865	-0.0090921	1
6.9167	0.24956	0.25835	-0.008787	1
6.9333	0.22229	0.25804	-0.035752	1
6.95	0.22229	0.25774	-0.035448	1
6.9667	0.24956	0.25743	-0.0078737	1
6.9833	0.24956	0.25713	-0.0075702	1
7	0.24956	0.25683	-0.0072668	1
7.0167	0.22229	0.25652	-0.034234	1
7.0333	0.22229	0.25622	-0.033931	1
7.05	0.24956	0.25592	-0.0063589	1
7.0667	0.22229	0.25562	-0.033327	1
7.0833	0.22229	0.25532	-0.033026	1
7.1	0.24956	0.25501	-0.0054543	1
7.1167	0.24956	0.25471	-0.0051534	1
7.1333	0.24956	0.25441	-0.004853	1
7.15	0.22229	0.25411	-0.031823	1
7.1667	0.24956	0.25381	-0.00425[illegible]	1
7.1833	0.24956	0.25351	-0.0039537	1
7.2	0.24956	0.25321	-0.0036546	1
7.2167	0.22229	0.25292	-0.030626	1
7.2333	0.24956	0.25262	-0.0030576	1
7.25	0.24956	0.25232	-0.0027595	1
7.2667	0.24956	0.25202	-0.0024618	1
7.2833	0.22229	0.25172	-0.029435	1
7.3	0.24956	0.25143	-0.0018676	1
7.3167	0.24956	0.25113	-0.0015709	1
7.3333	0.24956	0.25083	-0.0012748	1
7.35	0.22229	0.25054	-0.028249	1
7.3667	0.24956	0.25024	-0.00068[illegible]	1
7.3833	0.24956	0.24995	-0.00038812	1
7.4	0.24956	0.24965	-9.3197E-005	1
7.4167	0.22229	0.24936	-0.027069	1
7.4333	0.24956	0.24906	0.00049542	1
7.45	0.24956	0.24877	0.0007893	1
7.4667	0.22229	0.24848	-0.026187	1
7.4833	0.22229	0.24818	-0.025894	1
7.5	0.22229	0.24789	-0.025601	1
7.5167	0.24956	0.2476	0.0019612	1
7.5333	0.24956	0.24731	0.0022531	1
7.55	0.22229	0.24702	-0.024725	1
7.5667	0.24956	0.24672	0.0028364	1
7.5833	0.24956	0.24643	0.0031273	1
7.6	0.24956	0.24614	0.0034181	1
7.6167	0.22229	0.24585	-0.023561	1

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7.6333	0.24956	0.24556	0.0039984	1
7.65	0.24956	0.24527	0.0042882	1
7.6667	0.24956	0.24498	0.0045776	1
7.6833	0.22229	0.24469	-0.022404	1
7.7	0.24956	0.2444	0.0051552	1
7.7167	0.24956	0.24412	0.0054436	1
7.7333	0.24956	0.24383	0.0057314	1
7.75	0.22229	0.24354	-0.021251	1
7.7667	0.24956	0.24325	0.0063065	1
7.7833	0.24956	0.24297	0.0065933	1
7.8	0.24956	0.24268	0.00688	1
7.8167	0.22229	0.24239	-0.020104	1
7.8333	0.24956	0.24211	0.0074522	1
7.85	0.24956	0.24182	0.0077379	1
7.8667	0.22229	0.24154	-0.019247	1
7.8833	0.24956	0.24125	0.008308	1
7.9	0.24956	0.24097	0.0085927	1
7.9167	0.24956	0.24068	0.008877	1
7.9333	0.24956	0.2404	0.0091608	1
7.95	0.22229	0.24012	-0.017826	1
7.9667	0.24956	0.23983	0.0097278	1
7.9833	0.24956	0.23955	0.010011	1
8	0.24956	0.23927	0.010293	1
8.0167	0.22229	0.23898	-0.016694	1
8.0333	0.24956	0.2387	0.010857	1
8.05	0.24956	0.23842	0.011139	1
8.0667	0.24956	0.23814	0.01142	1
8.0833	0.22229	0.23786	-0.015569	1
8.1	0.24956	0.23758	0.011982	1
8.1167	0.24956	0.2373	0.012262	1
8.1333	0.22229	0.23702	-0.014728	1
8.15	0.22229	0.23674	-0.014448	1
8.1667	0.24956	0.23646	0.013101	1
8.1833	0.24956	0.23618	0.01338	1
8.2	0.22229	0.2359	-0.013612	1
8.2167	0.24956	0.23562	0.013937	1
8.2333	0.24956	0.23535	0.014215	1
8.25	0.24956	0.23507	0.014492	1
8.2667	0.22229	0.23479	-0.0125	1
8.2833	0.22229	0.23451	-0.012223	1
8.3	0.22229	0.23424	-0.011947	1
8.3167	0.24956	0.23396	0.0156	1
8.3333	0.22229	0.23368	-0.011394	1
8.35	0.22229	0.23341	-0.011116	1
8.3667	0.22229	0.23313	-0.010843	1
8.3833	0.24956	0.23286	0.016702	1
8.4	0.22229	0.23258	-0.010294	1
8.4167	0.22229	0.23231	-0.010019	1
8.4333	0.22229	0.23204	-0.0097453	1
8.45	0.24956	0.23176	0.017798	1
8.4667	0.24956	0.23149	0.018072	1
8.4833	0.22229	0.23122	-0.0089251	1
8.5	0.24956	0.23094	0.018618	1
8.5167	0.24956	0.23067	0.01889	1
8.5333	0.22229	0.2304	-0.0081078	1
8.55	0.22229	0.23013	-0.0078359	1
8.5667	0.22229	0.22985	-0.0075644	1
8.5833	0.22229	0.22958	-0.0072933	1

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8.6	0.24956	0.22931	0.020248	1
8.6167	0.22229	0.22904	-0.0067519	1
8.6333	0.22229	0.22877	-0.0064818	1
8.65	0.24956	0.2285	0.021058	1
8.6667	0.24956	0.22823	0.021328	1
8.6833	0.24956	0.22796	0.021597	1
8.7	0.24956	0.22769	0.021866	1
8.7167	0.24956	0.22743	0.022135	1
8.7333	0.24956	0.22716	0.022403	1
8.75	0.22229	0.22689	-0.0045993	1
8.7667	0.24956	0.22662	0.022938	1
8.7833	0.24956	0.22635	0.023206	1
8.8	0.22229	0.22609	-0.0037972	1
8.8167	0.22229	0.22582	-0.0035305	1
8.8333	0.22229	0.22555	-0.0032642	1
8.85	0.24956	0.22529	0.024272	1
8.8667	0.24956	0.22502	0.024538	1
8.8833	0.24956	0.22476	0.024803	1
8.9	0.22229	0.22449	-0.0022017	1
8.9167	0.24956	0.22423	0.025333	1
8.9333	0.22229	0.22396	-0.0016724	1
8.95	0.22229	0.2237	-0.0014081	1
8.9667	0.24956	0.22343	0.026126	1
8.9833	0.24956	0.22317	0.026389	1
9	0.24956	0.22291	0.026653	1
9.0167	0.22229	0.22264	-0.00035438	1
9.0333	0.24956	0.22238	0.027178	1
9.05	0.24956	0.22212	0.027441	1
9.0667	0.24956	0.22186	0.027703	1
9.0833	0.22229	0.2216	0.00069426	1
9.1	0.24956	0.22133	0.028236	1
9.1167	0.24956	0.22107	0.028487	1
9.1333	0.24956	0.22081	0.028748	1
9.15	0.22229	0.22055	0.0017381	1
9.1667	0.24956	0.22029	0.029268	1
9.1833	0.24956	0.22003	0.029528	1
9.2	0.24956	0.21977	0.029788	1
9.2167	0.24956	0.21951	0.030047	1
9.2333	0.24956	0.21925	0.030306	1
9.25	0.24956	0.219	0.030565	1
9.2667	0.24956	0.21874	0.030823	1
9.2833	0.22229	0.21848	0.0038109	1
9.3	0.24956	0.21822	0.031339	1
9.3167	0.24956	0.21796	0.031596	1
9.3333	0.24956	0.21771	0.031853	1
9.35	0.24956	0.21745	0.03211	1
9.3667	0.24956	0.21719	0.032367	1
9.3833	0.24956	0.21694	0.032623	1
9.4	0.22229	0.21668	0.0056088	1
9.4167	0.22229	0.21643	0.0058644	1
9.4333	0.24956	0.21617	0.03339	1
9.45	0.24956	0.21592	0.033645	1
9.4667	0.24956	0.21566	0.033899	1
9.4833	0.22229	0.21541	0.0068838	1
9.5	0.24956	0.21515	0.034408	1
9.5167	0.24956	0.2149	0.034662	1
9.5333	0.24956	0.21464	0.034915	1
9.55	0.22229	0.21439	0.0078985	1

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9.5667	0.22229	0.21414	0.0081514	1
9.5833	0.24956	0.21389	0.035674	1
9.6	0.24956	0.21363	0.035926	1
9.6167	0.24956	0.21338	0.036178	1
9.6333	0.24956	0.21313	0.03643	1
9.65	0.24956	0.21288	0.036681	1
9.6667	0.22229	0.21263	0.0096627	1
9.6833	0.22229	0.21238	0.0099134	1
9.7	0.24956	0.21213	0.037434	1
9.7167	0.24956	0.21188	0.037684	1
9.7333	0.24956	0.21163	0.037934	1
9.75	0.22229	0.21138	0.010914	1
9.7667	0.24956	0.21113	0.038433	1
9.7833	0.24956	0.21088	0.038682	1
9.8	0.22229	0.21063	0.011661	1
9.8167	0.22229	0.21038	0.01191	1
9.8333	0.24956	0.21013	0.039428	1
9.85	0.24956	0.20988	0.039676	1
9.8667	0.24956	0.20964	0.039923	1
9.8833	0.22229	0.20939	0.0129	1
9.9	0.19965	0.20914	-0.0094925	1
9.9167	0.19965	0.2089	-0.0092458	1
9.9333	0.24956	0.20865	0.040911	1
9.95	0.22229	0.2084	0.013887	1
9.9667	0.24956	0.20816	0.041403	1
9.9833	0.19965	0.20791	-0.0082619	1
10	0.24956	0.20767	0.041893	1
10.017	0.22229	0.20742	0.014869	1
10.033	0.19965	0.20718	-0.0075274	1
10.05	0.24956	0.20693	0.042628	1
10.067	0.22229	0.20669	0.015602	1
10.083	0.22229	0.20645	0.015845	1
10.1	0.19965	0.2062	-0.006551	1
10.117	0.24956	0.20596	0.043603	1
10.133	0.24956	0.20572	0.043845	1
10.15	0.22229	0.20547	0.016818	1
10.167	0.17236	0.20523	-0.032869	1
10.183	0.24956	0.20499	0.044572	1
10.2	0.24956	0.20475	0.044814	1
10.217	0.17236	0.2045	-0.032144	1
10.233	0.19965	0.20426	-0.0046135	1
10.25	0.19965	0.20402	-0.004372	1
10.267	0.19965	0.20378	-0.0041307	1
10.283	0.17236	0.20354	-0.031181	1
10.3	0.19965	0.2033	-0.0036508	1
10.317	0.24956	0.20306	0.046499	1
10.333	0.24956	0.20282	0.046738	1
10.35	0.17236	0.20258	-0.030222	1
10.367	0.17236	0.20234	-0.029983	1
10.383	0.24956	0.2021	0.047455	1
10.4	0.19965	0.20187	-0.0022161	1
10.417	0.17236	0.20163	-0.029267	1
10.433	0.19965	0.20139	-0.0017406	1
10.45	0.19965	0.20115	-0.0015025	1
10.467	0.19965	0.20091	-0.0012648	1
10.483	0.17236	0.20068	-0.028319	1
10.5	0.17236	0.20044	-0.028081	1
10.517	0.19965	0.2002	-0.00055455	1

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10.533	0.19965	0.19997	-0.00031931	1
10.55	0.17236	0.19973	-0.027373	1
10.567	0.19965	0.1995	0.00015315	1
10.583	0.24956	0.19926	0.050298	1
10.6	0.19965	0.19903	0.00062309	1
10.617	0.17236	0.19879	-0.026432	1
10.633	0.19965	0.19856	0.0010919	1
10.65	0.19965	0.19832	0.0013266	1
10.667	0.17236	0.19809	-0.025729	1
10.683	0.17236	0.19786	-0.025496	1
10.7	0.17236	0.19762	-0.025262	1
10.717	0.19965	0.19739	0.0022613	1
10.733	0.17236	0.19716	-0.024797	1
10.75	0.17236	0.19692	-0.024564	1
10.767	0.19965	0.19669	0.002959	1
10.783	0.19965	0.19646	0.0031901	1
10.8	0.19965	0.19623	0.0034223	1
10.817	0.17236	0.196	-0.023636	1
10.833	0.19965	0.19577	0.0038846	1
10.85	0.19965	0.19553	0.004116	1
10.867	0.19965	0.1953	0.0043471	1
10.883	0.17236	0.19507	-0.022713	1
10.9	0.19965	0.19484	0.0048072	1
10.917	0.19965	0.19461	0.0050375	1
10.933	0.17236	0.19438	-0.022024	1
10.95	0.17236	0.19415	-0.021794	1
10.967	0.19965	0.19392	0.0057254	1
10.983	0.19965	0.1937	0.0059533	1
11	0.17236	0.19347	-0.021108	1
11.017	0.17236	0.19324	-0.020879	1
11.033	0.17236	0.19301	-0.020652	1
11.05	0.19965	0.19278	0.0068661	1
11.067	0.19965	0.19256	0.007094	1
11.083	0.17236	0.19233	-0.01997	1
11.1	0.19965	0.1921	0.0075476	1
11.117	0.19965	0.19188	0.0077747	1
11.133	0.19965	0.19165	0.0080001	1
11.15	0.17236	0.19142	-0.019063	1
11.167	0.19965	0.1912	0.0084529	1
11.183	0.19965	0.19097	0.0086776	1
11.2	0.17236	0.19075	-0.018387	1
11.217	0.17236	0.19052	-0.018161	1
11.233	0.19965	0.1903	0.0093526	1
11.25	0.19965	0.19007	0.0095776	1
11.267	0.19965	0.18985	0.0098022	1
11.283	0.17236	0.18962	-0.017265	1
11.3	0.19965	0.1894	0.010249	1
11.317	0.19965	0.18918	0.010473	1
11.333	0.19965	0.18895	0.010696	1
11.35	0.17236	0.18873	-0.016371	1
11.367	0.17236	0.18851	-0.016148	1
11.383	0.19965	0.18829	0.011364	1
11.4	0.19965	0.18806	0.011586	1
11.417	0.17236	0.18784	-0.015482	1
11.433	0.19965	0.18762	0.012029	1
11.45	0.19965	0.1874	0.012251	1
11.467	0.19965	0.18718	0.012472	1
11.483	0.17236	0.18696	-0.014598	1

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11.5	0.19965	0.18674	0.012913	1
11.517	0.19965	0.18652	0.013134	1
11.533	0.19965	0.1863	0.013353	1
11.55	0.17236	0.18608	-0.013717	1
11.567	0.17236	0.18586	-0.013497	1
11.583	0.19965	0.18564	0.014012	1
11.6	0.19965	0.18542	0.014231	1
11.617	0.17236	0.1852	-0.01284	1
11.633	0.19965	0.18498	0.014668	1
11.65	0.19965	0.18476	0.014887	1
11.667	0.17236	0.18455	-0.012185	1
11.683	0.17236	0.18433	-0.011968	1
11.7	0.19965	0.18411	0.01554	1
11.717	0.19965	0.18389	0.015757	1
11.733	0.17236	0.18368	-0.011317	1
11.75	0.17236	0.18346	-0.011099	1
11.767	0.17236	0.18324	-0.010883	1
11.783	0.19965	0.18303	0.016623	1
11.8	0.19965	0.18281	0.016839	1
11.817	0.17236	0.18259	-0.010235	1
11.833	0.17236	0.18238	-0.01002	1
11.85	0.19965	0.18216	0.017485	1
11.867	0.17236	0.18195	-0.0095894	1
11.883	0.17236	0.18174	-0.0093757	1
11.9	0.19965	0.18152	0.018129	1
11.917	0.19965	0.18131	0.018344	1
11.933	0.17236	0.18109	-0.0087333	1
11.95	0.17236	0.18088	-0.0085192	1
11.967	0.17236	0.18067	-0.0083054	1
11.983	0.19965	0.18045	0.019197	1
12	0.17236	0.18024	-0.0078798	1
12.017	0.17236	0.18003	-0.0076668	1
12.033	0.17236	0.17982	-0.0074592	1
12.05	0.19965	0.1796	0.020047	1
12.067	0.17236	0.17939	-0.0070304	1
12.083	0.17236	0.17918	-0.0068196	1
12.1	0.17236	0.17897	-0.0066078	1
12.117	0.19965	0.17876	0.020894	1
12.133	0.17236	0.17855	-0.0061862	1
12.15	0.17236	0.17834	-0.0059752	1
12.167	0.19965	0.17812	0.021526	1
12.183	0.19965	0.17792	0.021735	1
12.2	0.17236	0.1777	-0.0053448	1
12.217	0.17236	0.17749	-0.0051347	1
12.233	0.19965	0.17729	0.022364	1
12.25	0.19965	0.17708	0.022573	1
12.267	0.17236	0.17687	-0.0045073	1
12.283	0.17236	0.17666	-0.0042995	1
12.3	0.17236	0.17645	-0.0040907	1
12.317	0.19965	0.17624	0.023408	1
12.333	0.19965	0.17604	0.023615	1
12.35	0.17236	0.17583	-0.003467	1
12.367	0.19965	0.17562	0.024031	1
12.383	0.19965	0.17541	0.024237	1
12.4	0.17236	0.17521	-0.0028454	1
12.417	0.17236	0.175	-0.0026383	1
12.433	0.19965	0.17479	0.024857	1
12.45	0.19965	0.17459	0.025064	1

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12.467	0.19965	0.17438	0.02527	1
12.483	0.17236	0.17417	-0.0018148	1
12.5	0.17236	0.17397	-0.001609	1
12.517	0.19965	0.17376	0.025887	1
12.533	0.19965	0.17356	0.026091	1
12.55	0.17236	0.17335	-0.000994	1
12.567	0.19965	0.17315	0.026501	1
12.583	0.19965	0.17295	0.026704	1
12.6	0.19965	0.17274	0.026909	1
12.617	0.17236	0.17254	-0.00017703	1
12.633	0.17236	0.17233	2.5699E-005	1
12.65	0.19965	0.17213	0.027519	1
12.667	0.17236	0.17193	0.00043287	1
12.683	0.17236	0.17173	0.00063488	1
12.7	0.19965	0.17152	0.028128	1
12.717	0.19965	0.17132	0.028331	1
12.733	0.17236	0.17112	0.0012419	1
12.75	0.17236	0.17092	0.0014442	1
12.767	0.19965	0.17071	0.028936	1
12.783	0.19965	0.17051	0.029137	1
12.8	0.17236	0.17031	0.0020483	1
12.817	0.17236	0.17011	0.0022497	1
12.833	0.17236	0.16991	0.0024495	1
12.85	0.19965	0.16971	0.02994	1
12.867	0.17236	0.16951	0.002851	1
12.883	0.17236	0.16931	0.0030501	1
12.9	0.17236	0.16911	0.0032503	1
12.917	0.19965	0.16891	0.03074	1
12.933	0.19965	0.16871	0.030939	1
12.95	0.17236	0.16851	0.0038481	1
12.967	0.17236	0.16831	0.0040472	1
12.983	0.19965	0.16811	0.031535	1
13	0.17236	0.16792	0.0044437	1
13.017	0.17236	0.16772	0.0046422	1
13.033	0.19965	0.16752	0.032129	1
13.05	0.19965	0.16732	0.032327	1
13.067	0.17236	0.16712	0.0052351	1
13.083	0.17236	0.16693	0.0054314	1
13.1	0.19965	0.16673	0.032919	1
13.117	0.19965	0.16653	0.033116	1
13.133	0.17236	0.16634	0.0060215	1
13.15	0.17236	0.16614	0.0062181	1
13.167	0.19965	0.16595	0.033705	1
13.183	0.19965	0.16575	0.033899	1
13.2	0.19965	0.16555	0.034095	1
13.217	0.17236	0.16536	0.0070011	1
13.233	0.19965	0.16516	0.034485	1
13.25	0.19965	0.16497	0.034681	1
13.267	0.17236	0.16477	0.0075856	1
13.283	0.17236	0.16458	0.0077792	1
13.3	0.19965	0.16439	0.035264	1
13.317	0.19965	0.16419	0.035458	1
13.333	0.19965	0.164	0.035651	1
13.35	0.17236	0.16381	0.0085549	1
13.367	0.19965	0.16361	0.036038	1
13.383	0.19965	0.16342	0.036231	1
13.4	0.17236	0.16323	0.0091339	1
13.417	0.17236	0.16303	0.0093268	1

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13.433	0.17236	0.16284	0.0095184	1
13.45	0.19965	0.16265	0.037001	1
13.467	0.19965	0.16246	0.037193	1
13.483	0.17236	0.16227	0.010094	1
13.5	0.17236	0.16207	0.010286	1
13.517	0.19965	0.16188	0.037767	1
13.533	0.19965	0.16169	0.037958	1
13.55	0.17236	0.1615	0.010859	1
13.567	0.19965	0.16131	0.03834	1
13.583	0.19965	0.16112	0.038529	1
13.6	0.19965	0.16093	0.03872	1
13.617	0.17236	0.16074	0.01162	1
13.633	0.19965	0.16055	0.039099	1
13.65	0.19965	0.16036	0.039288	1
13.667	0.19965	0.16017	0.039478	1
13.683	0.17236	0.15998	0.012376	1
13.7	0.19965	0.15979	0.039855	1
13.717	0.19965	0.15961	0.040044	1
13.733	0.17236	0.15942	0.012942	1
13.75	0.17236	0.15923	0.01313	1
13.767	0.19965	0.15904	0.040608	1
13.783	0.19965	0.15885	0.040795	1
13.8	0.17236	0.15867	0.013693	1
13.817	0.17236	0.15848	0.013881	1
13.833	0.14973	0.15829	-0.0085632	1
13.85	0.19965	0.15811	0.041544	1
13.867	0.19965	0.15792	0.041731	1
13.883	0.17236	0.15773	0.014626	1
13.9	0.14973	0.15755	-0.0078172	1
13.917	0.19965	0.15736	0.042289	1
13.933	0.19965	0.15718	0.042474	1
13.95	0.17236	0.15699	0.01537	1
13.967	0.17236	0.1568	0.015555	1
13.983	0.19965	0.15662	0.04303	1
14	0.19965	0.15644	0.043215	1
14.017	0.17236	0.15625	0.01611	1
14.033	0.17236	0.15607	0.016293	1
14.05	0.19965	0.15588	0.043768	1
14.067	0.19965	0.1557	0.043952	1
14.083	0.12245	0.15552	-0.033065	1
14.1	0.14973	0.15533	-0.0056013	1
14.117	0.19965	0.15515	0.044502	1
14.133	0.19965	0.15497	0.044685	1
14.15	0.17236	0.15478	0.017578	1
14.167	0.14973	0.1546	-0.0048693	1
14.183	0.19965	0.15442	0.045232	1
14.2	0.19965	0.15424	0.045415	1
14.217	0.12245	0.15405	-0.031603	1
14.233	0.12245	0.15387	-0.031422	1
14.25	0.14973	0.15369	-0.0039599	1
14.267	0.14973	0.15351	-0.0037778	1
14.283	0.12245	0.15333	-0.030878	1
14.3	0.12245	0.15315	-0.030697	1
14.317	0.19965	0.15297	0.046684	1
14.333	0.14973	0.15279	-0.0030559	1
14.35	0.12245	0.15261	-0.030155	1
14.367	0.14973	0.15242	-0.0026949	1
14.383	0.14973	0.15225	-0.0025158	1

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14.4	0.17236	0.15207	0.020294	1
14.417	0.12245	0.15189	-0.029436	1
14.433	0.14973	0.15171	-0.0019776	1
14.45	0.14973	0.15153	-0.0017983	1
14.467	0.17236	0.15135	0.021011	1
14.483	0.12245	0.15117	-0.028721	1
14.5	0.12245	0.15099	-0.028543	1
14.517	0.14973	0.15081	-0.0010842	1
14.533	0.14973	0.15064	-0.00090701	1
14.55	0.12245	0.15046	-0.028009	1
14.567	0.14973	0.15028	-0.0005511	1
14.583	0.14973	0.1501	-0.00037453	1
14.6	0.17236	0.14993	0.022433	1
14.617	0.12245	0.14975	-0.0273	1
14.633	0.12245	0.14957	-0.027124	1
14.65	0.14973	0.1494	0.00033288	1
14.667	0.14973	0.14922	0.00050947	1
14.683	0.12245	0.14905	-0.026595	1
14.7	0.14973	0.14887	0.00086098	1
14.717	0.14973	0.14869	0.0010369	1
14.733	0.14973	0.14852	0.0012117	1
14.75	0.12245	0.14834	-0.025893	1
14.767	0.14973	0.14817	0.0015626	1
14.783	0.14973	0.14799	0.0017366	1
14.8	0.14973	0.14782	0.0019116	1
14.817	0.12245	0.14764	-0.025194	1
14.833	0.14973	0.14747	0.0022598	1
14.85	0.14973	0.1473	0.0024341	1
14.867	0.14973	0.14712	0.0026082	1
14.883	0.12245	0.14695	-0.024499	1
14.9	0.14973	0.14678	0.0029548	1
14.917	0.14973	0.1466	0.0031283	1
14.933	0.14973	0.14643	0.0033005	1
14.95	0.12245	0.14626	-0.023806	1
14.967	0.14973	0.14608	0.0036465	1
14.983	0.14973	0.14591	0.0038181	1
15	0.14973	0.14574	0.0039906	1
15.017	0.12245	0.14557	-0.023117	1
15.033	0.12245	0.1454	-0.022946	1
15.05	0.14973	0.14522	0.0045058	1
15.067	0.14973	0.14505	0.0046774	1
15.083	0.12245	0.14488	-0.022432	1
15.1	0.14973	0.14471	0.0050191	1
15.117	0.14973	0.14454	0.0051901	1
15.133	0.14973	0.14437	0.00536	1
15.15	0.12245	0.1442	-0.021749	1
15.167	0.12245	0.14403	-0.021579	1
15.183	0.14973	0.14386	0.0058703	1
15.2	0.14973	0.14369	0.0060404	1
15.217	0.12245	0.14352	-0.02107	1
15.233	0.14973	0.14335	0.0063789	1
15.25	0.14973	0.14318	0.0065482	1
15.267	0.14973	0.14301	0.0067176	1
15.283	0.12245	0.14284	-0.020394	1
15.3	0.14973	0.14268	0.0070544	1
15.317	0.14973	0.14251	0.0072231	1
15.333	0.14973	0.14234	0.0073905	1
15.35	0.12245	0.14217	-0.019721	1

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15.367	0.14973	0.142	0.0077268	1
15.383	0.14973	0.14184	0.0078937	1
15.4	0.14973	0.14167	0.0080613	1
15.417	0.12245	0.1415	-0.019051	1
15.433	0.14973	0.14133	0.0083951	1
15.45	0.14973	0.14117	0.0085621	1
15.467	0.14973	0.141	0.008729	1
15.483	0.12245	0.14084	-0.018385	1
15.5	0.12245	0.14067	-0.018219	1
15.517	0.14973	0.1405	0.0092274	1
15.533	0.14973	0.14034	0.0093925	1
15.55	0.12245	0.14017	-0.017722	1
15.567	0.12245	0.14001	-0.017556	1
15.583	0.14973	0.13984	0.0098886	1
15.6	0.14973	0.13968	0.010054	1
15.617	0.12245	0.13951	-0.017061	1
15.633	0.14973	0.13935	0.010383	1
15.65	0.14973	0.13918	0.010548	1
15.667	0.14973	0.13902	0.010712	1
15.683	0.12245	0.13885	-0.016405	1
15.7	0.14973	0.13869	0.01104	1
15.717	0.14973	0.13853	0.011204	1
15.733	0.14973	0.13836	0.011366	1
15.75	0.12245	0.1382	-0.01575	1
15.767	0.14973	0.13804	0.011693	1
15.783	0.14973	0.13787	0.011855	1
15.8	0.14973	0.13771	0.012018	1
15.817	0.12245	0.13755	-0.015099	1
15.833	0.12245	0.13739	-0.014937	1
15.85	0.14973	0.13722	0.012505	1
15.867	0.14973	0.13706	0.012667	1
15.883	0.12245	0.1369	-0.014452	1
15.9	0.14973	0.13674	0.01299	1
15.917	0.14973	0.13658	0.013152	1
15.933	0.14973	0.13642	0.013312	1
15.95	0.12245	0.13626	-0.013806	1
15.967	0.14973	0.1361	0.013635	1
15.983	0.14973	0.13594	0.013795	1
16	0.12245	0.13577	-0.013325	1
16.017	0.12245	0.13561	-0.013164	1
16.033	0.14973	0.13545	0.014275	1
16.05	0.14973	0.13529	0.014435	1
16.067	0.12245	0.13513	-0.012685	1
16.083	0.12245	0.13498	-0.012526	1
16.1	0.14973	0.13482	0.014915	1
16.117	0.14973	0.13466	0.015073	1
16.133	0.14973	0.1345	0.015231	1
16.15	0.12245	0.13434	-0.01189	1
16.167	0.14973	0.13418	0.015549	1
16.183	0.14973	0.13402	0.015706	1
16.2	0.14973	0.13387	0.015865	1
16.217	0.12245	0.13371	-0.011257	1
16.233	0.14973	0.13355	0.01618	1
16.25	0.14973	0.13339	0.016338	1
16.267	0.12245	0.13323	-0.010784	1
16.283	0.12245	0.13308	-0.010628	1
16.3	0.14973	0.13292	0.01681	1
16.317	0.14973	0.13276	0.016967	1

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16.333	0.12245	0.13261	-0.010157	1
16.35	0.12245	0.13245	-0.010001	1
16.367	0.14973	0.13229	0.017436	1
16.383	0.14973	0.13214	0.017591	1
16.4	0.12245	0.13198	-0.0095324	1
16.417	0.12245	0.13183	-0.0093763	1
16.433	0.14973	0.13167	0.018059	1
16.45	0.14973	0.13152	0.018214	1
16.467	0.14973	0.13136	0.01837	1
16.483	0.12245	0.13121	-0.008756	1
16.5	0.14973	0.13105	0.018679	1
16.517	0.14973	0.1309	0.018834	1
16.533	0.14973	0.13074	0.018988	1
16.55	0.12245	0.13059	-0.0081377	1
16.567	0.14973	0.13043	0.019297	1
16.583	0.14973	0.13028	0.01945	1
16.6	0.14973	0.13013	0.019604	1
16.617	0.14973	0.12997	0.019758	1
16.633	0.14973	0.12982	0.01991	1
16.65	0.14973	0.12967	0.020064	1
16.667	0.14973	0.12951	0.020217	1
16.683	0.12245	0.12936	-0.0069106	1
16.7	0.14973	0.12921	0.020522	1
16.717	0.14973	0.12906	0.020675	1
16.733	0.14973	0.1289	0.020827	1
16.75	0.12245	0.12875	-0.006301	1
16.767	0.14973	0.1286	0.021131	1
16.783	0.14973	0.12845	0.021282	1
16.8	0.14973	0.1283	0.021434	1
16.817	0.12245	0.12814	-0.0056942	1
16.833	0.14973	0.12799	0.021736	1
16.85	0.14973	0.12784	0.021888	1
16.867	0.14973	0.12769	0.022039	1
16.883	0.12245	0.12754	-0.0050912	1
16.9	0.14973	0.12739	0.02234	1
16.917	0.14973	0.12724	0.02249	1
16.933	0.14973	0.12709	0.02264	1
16.95	0.12245	0.12694	-0.0044902	1
16.967	0.14973	0.12679	0.02294	1
16.983	0.14973	0.12664	0.023089	1
17	0.14973	0.12649	0.023239	1
17.017	0.12245	0.12634	-0.0038919	1
17.033	0.12245	0.12619	-0.0037435	1
17.05	0.14973	0.12604	0.023686	1
17.067	0.12245	0.1259	-0.0034453	1
17.083	0.12245	0.12575	-0.0032974	1
17.1	0.14973	0.1256	0.024131	1
17.117	0.14973	0.12545	0.02428	1
17.133	0.12245	0.1253	-0.0028529	1
17.15	0.12245	0.12515	-0.0027048	1
17.167	0.12245	0.12501	-0.0025568	1
17.183	0.14973	0.12486	0.02487	1
17.2	0.14973	0.12471	0.025018	1
17.217	0.12245	0.12456	-0.002115	1
17.233	0.12245	0.12442	-0.0019686	1
17.25	0.14973	0.12427	0.025458	1
17.267	0.12245	0.12412	-0.0016746	1
17.283	0.12245	0.12398	-0.0015288	1

SUPERSEDED
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17.3	0.14973	0.12383	0.025898	1
17.317	0.14973	0.12369	0.026044	1
17.333	0.14973	0.12354	0.026189	1
17.35	0.12245	0.12339	-0.00094452	1
17.367	0.12245	0.12325	-0.00079866	1
17.383	0.14973	0.1231	0.026626	1
17.4	0.12245	0.12296	-0.00050833	1
17.417	0.12245	0.12281	-0.00036299	1
17.433	0.14973	0.12267	0.027061	1
17.45	0.14973	0.12252	0.027206	1
17.467	0.14973	0.12238	0.027351	1
17.483	0.12245	0.12224	0.00021493	1
17.5	0.14973	0.12209	0.027639	1
17.517	0.14973	0.12195	0.027784	1
17.533	0.12245	0.1218	0.00064701	1
17.55	0.12245	0.12166	0.00079099	1
17.567	0.14973	0.12152	0.028215	1
17.583	0.14973	0.12137	0.028358	1
17.6	0.12245	0.12123	0.001221	1
17.617	0.12245	0.12109	0.0013643	1
17.633	0.14973	0.12094	0.028787	1
17.65	0.14973	0.1208	0.02893	1
17.667	0.12245	0.12066	0.0017924	1
17.683	0.12245	0.12052	0.0019341	1
17.7	0.07253	0.12037	-0.047843	1
17.717	0.12245	0.12023	0.0022189	1
17.733	0.12245	0.12009	0.0023601	1
17.75	0.12245	0.11995	0.0025021	1
17.767	0.12245	0.11981	0.0026439	1
17.783	0.14973	0.11967	0.030065	1
17.8	0.12245	0.11952	0.0029261	1
17.817	0.12245	0.11938	0.0030674	1
17.833	0.14973	0.11924	0.030488	1
17.85	0.14973	0.1191	0.030629	1
17.867	0.14973	0.11896	0.030769	1
17.883	0.14973	0.11882	0.030909	1
17.9	0.09982	0.11868	-0.01886	1
17.917	0.14973	0.11854	0.03119	1
17.933	0.14973	0.1184	0.031329	1
17.95	0.12245	0.11826	0.0041891	1
17.967	0.09982	0.11812	-0.018301	1
17.983	0.09982	0.11798	-0.018162	1
18	0.14973	0.11784	0.031887	1
18.017	0.12245	0.1177	0.0047465	1
18.033	0.14973	0.11757	0.032165	1
18.05	0.14973	0.11743	0.032304	1
18.067	0.14973	0.11729	0.032443	1
18.083	0.07253	0.11715	-0.04462	1
18.1	0.09982	0.11701	-0.017191	1
18.117	0.14973	0.11687	0.032857	1
18.133	0.14973	0.11674	0.032994	1
18.15	0.07253	0.1166	-0.044068	1
18.167	0.09982	0.11646	-0.01664	1
18.183	0.14973	0.11632	0.033407	1
18.2	0.09982	0.11619	-0.016365	1
18.217	0.12245	0.11605	0.0064019	1
18.233	0.09982	0.11591	-0.016092	1
18.25	0.14973	0.11577	0.033955	1

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JUN 15 1993
UTAH DIVISION OIL, GAS AND MINING

18.267	0.14973	0.11564	0.034092	1
18.283	0.12245	0.1155	0.006948	1
18.3	0.07253	0.11537	-0.042835	1
18.317	0.14973	0.11523	0.034501	1
18.333	0.12245	0.11509	0.0073563	1
18.35	0.12245	0.11496	0.0074923	1
18.367	0.12245	0.11482	0.0076282	1
18.383	0.14973	0.11469	0.035043	1
18.4	0.12245	0.11455	0.0078987	1
18.417	0.12245	0.11442	0.0080341	1
18.433	0.09982	0.11428	-0.014461	1
18.45	0.09982	0.11415	-0.014326	1
18.467	0.14973	0.11401	0.035719	1
18.483	0.07253	0.11388	-0.041347	1
18.5	0.09982	0.11374	-0.013923	1
18.517	0.09982	0.11361	-0.013788	1
18.533	0.07253	0.11347	-0.040945	1
18.55	0.07253	0.11334	-0.040811	1
18.567	0.09982	0.11321	-0.013387	1
18.583	0.09982	0.11307	-0.013254	1
18.6	0.12245	0.11294	0.0095098	1
18.617	0.09982	0.11281	-0.012987	1
18.633	0.07253	0.11267	-0.040144	1
18.65	0.09982	0.11254	-0.012721	1
18.667	0.09982	0.11241	-0.012588	1
18.683	0.07253	0.11228	-0.039746	1
18.7	0.07253	0.11214	-0.039613	1
18.717	0.09982	0.11201	-0.012191	1
18.733	0.09982	0.11188	-0.012059	1
18.75	0.07253	0.11175	-0.039217	1
18.767	0.09982	0.11161	-0.011795	1
18.783	0.09982	0.11148	-0.011663	1
18.8	0.09982	0.11135	-0.011532	1
18.817	0.12245	0.11122	0.01123	1
18.833	0.07253	0.11109	-0.038559	1
18.85	0.09982	0.11096	-0.011138	1
18.867	0.07253	0.11083	-0.038297	1
18.883	0.07253	0.1107	-0.038167	1
18.9	0.07253	0.11057	-0.038036	1
18.917	0.09982	0.11044	-0.010615	1
18.933	0.09982	0.11031	-0.010485	1
18.95	0.09982	0.11018	-0.010355	1
18.967	0.07253	0.11004	-0.037515	1
18.983	0.09982	0.10992	-0.010096	1
19	0.09982	0.10979	-0.009966	1
19.017	0.07253	0.10966	-0.037126	1
19.033	0.09982	0.10953	-0.009707	1
19.05	0.09982	0.1094	-0.0095775	1
19.067	0.09982	0.10927	-0.0094482	1
19.083	0.07253	0.10914	-0.03661	1
19.1	0.09982	0.10901	-0.0091908	1
19.117	0.09982	0.10888	-0.0090619	1
19.133	0.09982	0.10875	-0.0089324	1
19.15	0.07253	0.10863	-0.036095	1
19.167	0.07253	0.1085	-0.035967	1
19.183	0.09982	0.10837	-0.0085496	1
19.2	0.07253	0.10824	-0.035711	1
19.217	0.07253	0.10811	-0.035584	1

SUPERSEDED
EFFECTIVE:
SEP 5 1995
UTAH DIVISION OIL, GAS AND MINING

INCORPORATED
EFFECTIVE:
JUN 15 1993
UTAH DIVISION OIL, GAS AND MINING

19.233	0.07253	0.10799	-0.035457	1
19.25	0.09982	0.10786	-0.0080389	1
19.267	0.09982	0.10773	-0.0079114	1
19.283	0.09982	0.1076	-0.0077848	1
19.3	0.07253	0.10748	-0.034948	1
19.317	0.07253	0.10735	-0.034821	1
19.333	0.07253	0.10722	-0.034694	1
19.35	0.07253	0.1071	-0.034568	1
19.367	0.09982	0.10697	-0.0071511	1
19.383	0.09982	0.10685	-0.0070254	1
19.4	0.07253	0.10672	-0.034189	1
19.417	0.09982	0.10659	-0.0067729	1
19.433	0.09982	0.10647	-0.0066477	1
19.45	0.09982	0.10634	-0.0065219	1
19.467	0.09982	0.10622	-0.0063962	1
19.483	0.07253	0.10609	-0.033561	1
19.5	0.09982	0.10597	-0.006146	1
19.517	0.09982	0.10584	-0.0060207	1
19.533	0.09982	0.10572	-0.0058963	1
19.55	0.09982	0.10559	-0.0057714	1
19.567	0.07253	0.10547	-0.032937	1
19.583	0.07253	0.10534	-0.032813	1
19.6	0.09982	0.10522	-0.0053981	1
19.617	0.09982	0.10509	-0.0052737	1
19.633	0.09982	0.10497	-0.0051503	1
19.65	0.09982	0.10485	-0.0050262	1
19.667	0.09982	0.10472	-0.0049023	1
19.683	0.07253	0.1046	-0.032069	1
19.7	0.07253	0.10448	-0.031946	1
19.717	0.09982	0.10435	-0.0045321	1
19.733	0.09982	0.10423	-0.0044095	1
19.75	0.09982	0.10411	-0.0042863	1
19.767	0.09982	0.10398	-0.0041632	1
19.783	0.07253	0.10386	-0.031331	1
19.8	0.09982	0.10374	-0.0039183	1
19.817	0.07253	0.10362	-0.031086	1
19.833	0.09982	0.10349	-0.0036739	1
19.85	0.09982	0.10337	-0.0035516	1
19.867	0.09982	0.10325	-0.0034294	1
19.883	0.07253	0.10313	-0.030598	1
19.9	0.07253	0.10301	-0.030476	1
19.917	0.09982	0.10288	-0.0030644	1
19.933	0.07253	0.10276	-0.030234	1
19.95	0.09982	0.10264	-0.002822	1
19.967	0.07253	0.10252	-0.029991	1
19.983	0.07253	0.1024	-0.02987	1
20	0.07253	0.10228	-0.029749	1
20.017	0.07253	0.10216	-0.029628	1
20.033	0.09982	0.10204	-0.0022183	1
20.05	0.09982	0.10192	-0.0020977	1
20.067	0.07253	0.1018	-0.029267	1
20.083	0.07253	0.10168	-0.029148	1
20.1	0.09982	0.10156	-0.0017374	1
20.117	0.07253	0.10144	-0.028907	1
20.133	0.09982	0.10132	-0.0014982	1
20.15	0.09982	0.1012	-0.0013784	1
20.167	0.07253	0.10108	-0.028549	1
20.183	0.07253	0.10096	-0.02843	1

SUPERSEDED
EFFECTIVE:
APR 5
UTAH DIVISION OIL, GAS AND MINING
INCORPORATED
EFFECTIVE:
JUN 15 1993
UTAH DIVISION OIL, GAS AND MINING

20.2	0.07253	0.10084	-0.028311	1
20.217	0.07253	0.10072	-0.028191	1
20.233	0.09982	0.1006	-0.00078314	1
20.25	0.09982	0.10048	-0.00066423	1
20.267	0.09982	0.10037	-0.00054545	1
20.283	0.09982	0.10025	-0.00042753	1
20.3	0.09982	0.10013	-0.00030903	1
20.317	0.07253	0.10001	-0.027481	1
20.333	0.07253	0.099893	-0.027363	1
20.35	0.07253	0.099775	-0.027245	1
20.367	0.07253	0.099657	-0.027127	1
20.383	0.09982	0.09954	0.00027995	1
20.4	0.09982	0.099422	0.00039761	1
20.417	0.09982	0.099305	0.00051513	1
20.433	0.07253	0.099188	-0.026658	1
20.45	0.09982	0.099071	0.00074905	1
20.467	0.07253	0.098954	-0.026424	1
20.483	0.09982	0.098838	0.00098243	1
20.5	0.09982	0.098721	0.0010993	1
20.517	0.09982	0.098604	0.0012159	1
20.533	0.09982	0.098488	0.0013318	1
20.55	0.09982	0.098372	0.0014482	1
20.567	0.09982	0.098255	0.0015645	1
20.583	0.07253	0.09814	-0.02561	1
20.6	0.07253	0.098024	-0.025494	1
20.617	0.09982	0.097908	0.0019118	1
20.633	0.07253	0.097793	-0.025263	1
20.65	0.09982	0.097678	0.0021425	1
20.667	0.09982	0.097562	0.0022579	1
20.683	0.09982	0.097447	0.0023725	1
20.7	0.09982	0.097332	0.0024877	1
20.717	0.09982	0.097217	0.0026028	1
20.733	0.09982	0.097103	0.002717	1
20.75	0.09982	0.096988	0.0028318	1
20.767	0.09982	0.096874	0.0029464	1
20.783	0.09982	0.09676	0.0030603	1
20.8	0.09982	0.096645	0.0031746	1
20.817	0.09982	0.096531	0.0032889	1
20.833	0.07253	0.096418	-0.023888	1
20.85	0.07253	0.096304	-0.023774	1
20.867	0.07253	0.09619	-0.02366	1
20.883	0.09982	0.096077	0.0037431	1
20.9	0.09982	0.095963	0.0038567	1
20.917	0.09982	0.09585	0.0039701	1
20.933	0.09982	0.095737	0.0040827	1
20.95	0.09982	0.095624	0.0041959	1
20.967	0.07253	0.095511	-0.022981	1
20.983	0.07253	0.095399	-0.022869	1
21	0.07253	0.095286	-0.022756	1
21.017	0.09982	0.095173	0.0046466	1
21.033	0.09982	0.095062	0.0047584	1
21.05	0.09982	0.094949	0.0048707	1
21.067	0.09982	0.094837	0.004983	1
21.083	0.09982	0.094726	0.0050944	1
21.1	0.09982	0.094614	0.0052064	1
21.117	0.07253	0.094502	-0.021972	1
21.133	0.07253	0.094391	-0.021861	1
21.15	0.09982	0.094279	0.0055408	1

SUPERSEDED
EFFECTIVE:
APR 5 1993
UTAH DIVISION OIL, GAS AND MINING
INCORPORATED
EFFECTIVE:
JUN 15 1993
UTAH DIVISION OIL, GAS AND MINING

21.167	0.09982	0.094168	0.0056523	1
21.183	0.09982	0.094057	0.0057629	1
21.2	0.09982	0.093946	0.0058741	1
21.217	0.09982	0.093835	0.0059851	1
21.233	0.07253	0.093725	-0.021195	1
21.25	0.09982	0.093614	0.0062062	1
21.267	0.09982	0.093503	0.0063168	1
21.283	0.07253	0.093393	-0.020863	1
21.3	0.07253	0.093283	-0.020753	1
21.317	0.07253	0.093173	-0.020643	1
21.333	0.09982	0.093063	0.0067568	1
21.35	0.09982	0.092953	0.0068668	1
21.367	0.09982	0.092843	0.0069767	1
21.383	0.09982	0.092734	0.0070858	1
21.4	0.09982	0.092625	0.0071954	1
21.417	0.09982	0.092515	0.0073049	1
21.433	0.09982	0.092406	0.0074136	1
21.45	0.07253	0.092297	-0.019767	1
21.467	0.07253	0.092188	-0.019658	1
21.483	0.09982	0.09208	0.0077402	1
21.5	0.09982	0.091971	0.0078491	1
21.517	0.09982	0.091862	0.0079578	1
21.533	0.09982	0.091754	0.0080657	1
21.55	0.09982	0.091646	0.0081742	1
21.567	0.09982	0.091537	0.0082825	1
21.583	0.09982	0.09143	0.0083901	1
21.6	0.07253	0.091322	-0.018792	1
21.617	0.07253	0.091214	-0.018684	1
21.633	0.07253	0.091107	-0.018577	1
21.65	0.07253	0.090999	-0.018469	1
21.667	0.07253	0.090891	-0.018361	1
21.683	0.07253	0.090785	-0.018255	1
21.7	0.09982	0.090677	0.0091426	1
21.717	0.09982	0.09057	0.0092498	1
21.733	0.09982	0.090464	0.0093562	1
21.75	0.07253	0.090357	-0.017827	1
21.767	0.09982	0.09025	0.00957	1
21.783	0.07253	0.090144	-0.017614	1
21.8	0.07253	0.090037	-0.017507	1
21.817	0.07253	0.089931	-0.017401	1
21.833	0.09982	0.089825	0.0099947	1
21.85	0.09982	0.089719	0.010101	1
21.867	0.09982	0.089613	0.010207	1
21.883	0.09982	0.089508	0.010312	1
21.9	0.09982	0.089402	0.010418	1
21.917	0.09982	0.089296	0.010524	1
21.933	0.07253	0.089191	-0.016661	1
21.95	0.07253	0.089086	-0.016556	1
21.967	0.07253	0.088981	-0.016451	1
21.983	0.09982	0.088876	0.010944	1
22	0.07253	0.088771	-0.016241	1
22.017	0.07253	0.088666	-0.016136	1
22.033	0.07253	0.088562	-0.016032	1
22.05	0.09982	0.088457	0.011363	1
22.067	0.09982	0.088353	0.011467	1
22.083	0.09982	0.088249	0.011571	1
22.1	0.09982	0.088145	0.011675	1
22.117	0.09982	0.08804	0.01178	1

INCORPORATED
EFFECTIVE:
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UTAH DIVISION OIL, GAS AND MINING

22.133	0.07253	0.087937	-0.015407	1
22.15	0.09982	0.087833	0.011987	1
22.167	0.07253	0.087729	-0.015199	1
22.183	0.07253	0.087626	-0.015096	1
22.2	0.07253	0.087523	-0.014993	1
22.217	0.07253	0.087419	-0.014889	1
22.233	0.07253	0.087316	-0.014786	1
22.25	0.07253	0.087213	-0.014683	1
22.267	0.07253	0.08711	-0.01458	1
22.283	0.09982	0.087008	0.012812	1
22.3	0.09982	0.086905	0.012915	1
22.317	0.09982	0.086802	0.013018	1
22.333	0.09982	0.0867	0.01312	1
22.35	0.09982	0.086598	0.013222	1
22.367	0.09982	0.086495	0.013325	1
22.383	0.09982	0.086394	0.013426	1
22.4	0.07253	0.086292	-0.013762	1
22.417	0.09982	0.08619	0.01363	1
22.433	0.09982	0.086088	0.013732	1
22.45	0.07253	0.085987	-0.013457	1
22.467	0.07253	0.085885	-0.013355	1
22.483	0.07253	0.085784	-0.013254	1
22.5	0.09982	0.085683	0.014137	1
22.517	0.09982	0.085581	0.014239	1
22.533	0.07253	0.085481	-0.012951	1
22.55	0.09982	0.08538	0.01444	1
22.567	0.09982	0.085279	0.014541	1
22.583	0.09982	0.085179	0.014641	1
22.6	0.09982	0.085078	0.014742	1
22.617	0.09982	0.084977	0.014843	1
22.633	0.04991	0.084877	-0.034967	1
22.65	0.09982	0.084777	0.015043	1
22.667	0.09982	0.084677	0.015143	1
22.683	0.09982	0.084577	0.015243	1
22.7	0.09982	0.084477	0.015343	1
22.717	0.09982	0.084378	0.015442	1
22.733	0.09982	0.084278	0.015542	1
22.75	0.09982	0.084179	0.015641	1
22.767	0.09982	0.084079	0.015741	1
22.783	0.04991	0.083981	-0.034071	1
22.8	0.07253	0.083881	-0.011351	1
22.817	0.04991	0.083782	-0.033872	1
22.833	0.07253	0.083684	-0.011154	1
22.85	0.0226	0.083585	-0.060985	1
22.867	0.0226	0.083486	-0.060886	1
22.883	0.0226	0.083388	-0.060788	1
22.9	0.04991	0.083289	-0.033379	1
22.917	0.04991	0.083191	-0.033281	1
22.933	0.04991	0.083093	-0.033183	1
22.95	0.04991	0.082995	-0.033085	1
22.967	0.09982	0.082897	0.016923	1
22.983	0.04991	0.082799	-0.032889	1
23	0.0226	0.082702	-0.060102	1
23.017	0.04991	0.082604	-0.032694	1
23.033	0.04991	0.082507	-0.032597	1
23.05	0.04991	0.082409	-0.032499	1
23.067	0.04991	0.082312	-0.032402	1
23.083	0.04991	0.082215	-0.032305	1

SUPERSEDED
EFFECTIVE:
APR 5 1995
Division Oil, Gas And Mining
INCORPORATED
EFFECTIVE:
JUN 15 1993
UTAH DIVISION OIL, GAS AND MINING

23.1	0.04991	0.082118	-0.032208	1
23.117	0.04991	0.082021	-0.032111	1
23.133	0.04991	0.081924	-0.032014	1
23.15	0.0226	0.081828	-0.059228	1
23.167	0.04991	0.081731	-0.031821	1
23.183	0.04991	0.081635	-0.031725	1
23.2	0.04991	0.081538	-0.031628	1
23.217	0.04991	0.081442	-0.031532	1
23.233	0.04991	0.081346	-0.031436	1
23.25	0.04991	0.08125	-0.03134	1
23.267	0.04991	0.081154	-0.031244	1
23.283	0.04991	0.081059	-0.031149	1
23.3	0.04991	0.080963	-0.031053	1
23.317	0.04991	0.080867	-0.030957	1
23.333	0.04991	0.080772	-0.030862	1
23.35	0.04991	0.080677	-0.030767	1
23.367	0.04991	0.080581	-0.030671	1
23.383	0.04991	0.080487	-0.030577	1
23.4	0.04991	0.080392	-0.030482	1
23.417	0.04991	0.080297	-0.030387	1

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RESULTS FROM VISUAL CURVE MATCHING

VISUAL MATCH PARAMETER ESTIMATES

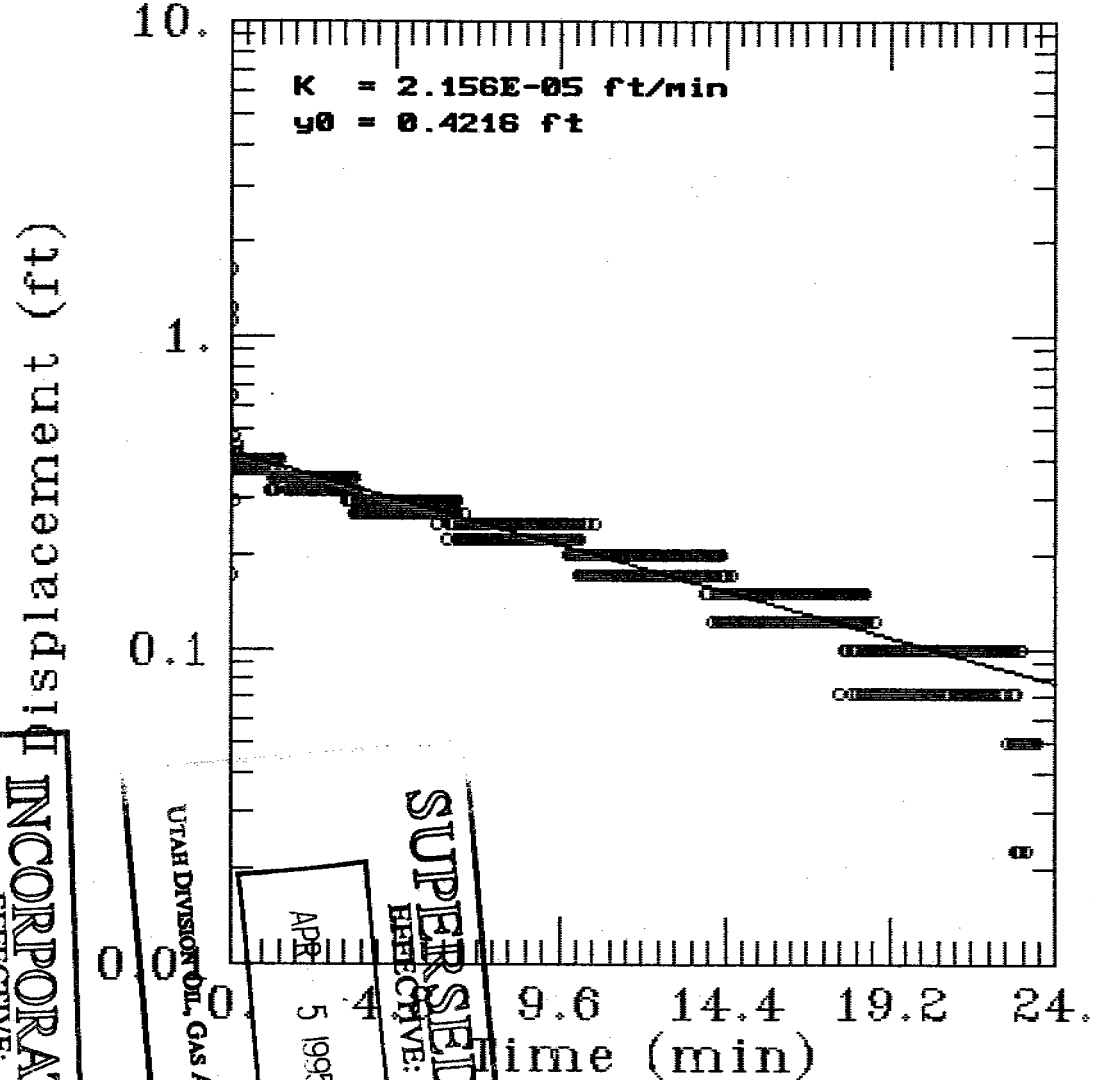
	Estimate
K =	2.1560E-005
y0 =	4.2164E-001

<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<>>

SUPERSEDED
EFFECTIVE:
APR 5 199?
UTAH DIVISION OIL, GAS AND MINING

INCORPORATED
EFFECTIVE:
JUN 15 1993
UTAH DIVISION OIL, GAS AND MINING

DH-1A STORRS SLUG INJECTION TEST #3



INCORPORATED
EFFECTIVE:
JUN 15 1993
UTAH DIVISION OIL, GAS AND MINING

SUPERSEDED
EFFECTIVE:
APR 5 1995
UTAH DIVISION OIL, GAS AND MINING

del Residuals:

Time	Observed	Calculated	Residual	Weight
0.0083333	2.5909	2.498	0.092898	1
0.033333	2.3412	2.428	-0.086775	1
0.041667	2.3412	2.4051	-0.063872	1
0.058333	2.3412	2.3599	-0.018712	1
0.066667	2.3412	2.3377	0.0035497	1
0.075	2.3412	2.3156	0.025601	1
0.083333	2.3412	2.2938	0.047444	1

RESULTS FROM VISUAL CURVE MATCHING

VISUAL MATCH PARAMETER ESTIMATES

	Estimate
K =	5.0803E-004
y0 =	2.5218E+000

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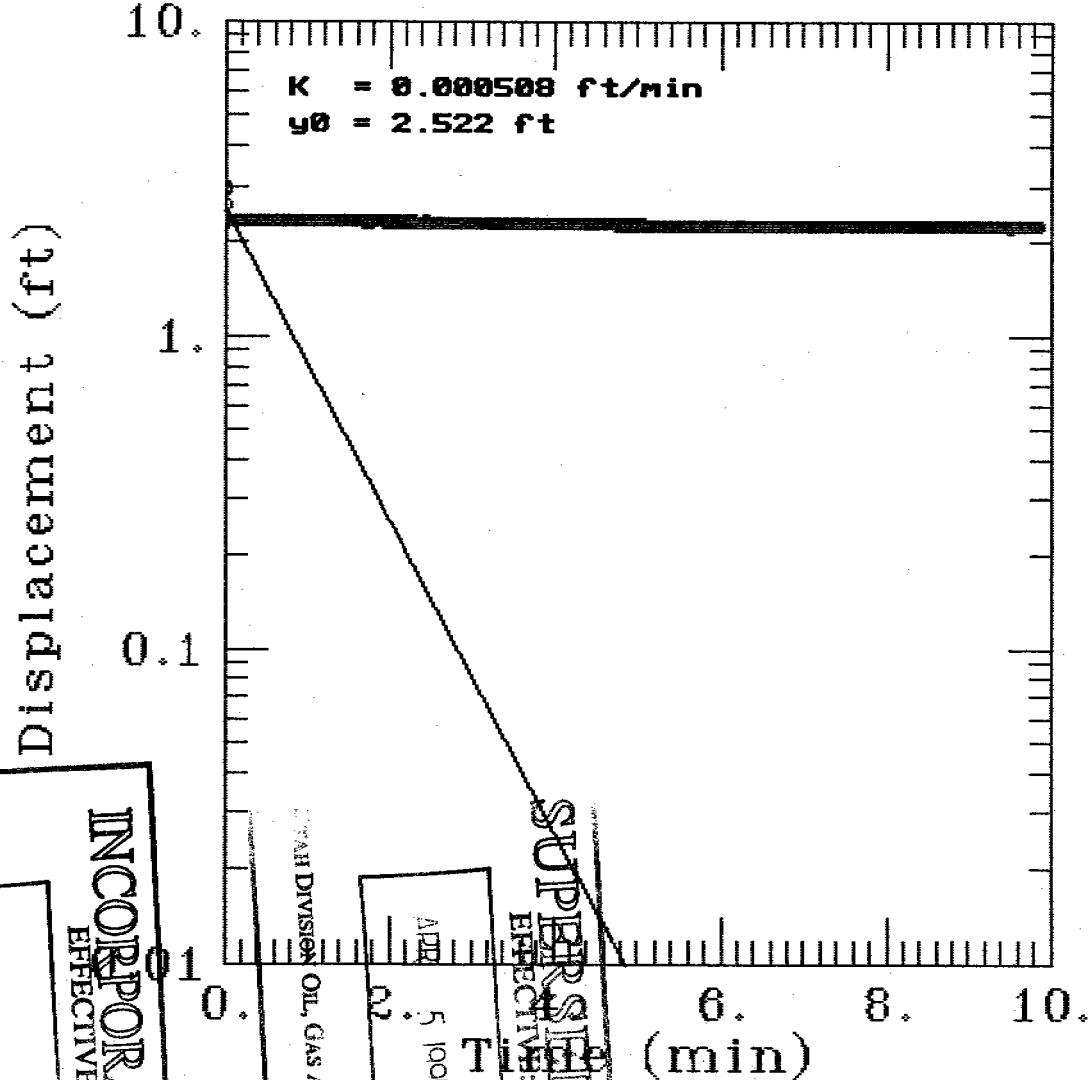
DH-1A PANTHER SLUG WITHDRAWAL TEST #1



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TEST DESCRIPTION

Data set..... DH1PANB1.AQT
Data set title..... DH-1A PANTHER SLUG WITHDRAWAL TEST #1
Company..... EarthFax Engineering
Project..... UC-192-06
Client..... CO-OP Mine
Location..... Huntington Canyon
Test date..... 9-25-91
Test well..... DH-1A

Knowns and Constants:
- No. of data points..... 1183
- Radius of well casing..... 0.1
- Radius of well..... 0.1
- Aquifer saturated thickness..... 70
- Well screen length..... 60
- Static height of water in well..... 70
- Log(Re/Rw)..... 5.36
- A, B, C..... 0.000, 0.000, 11.189

ANALYTICAL METHOD

Bouwer-Rice (Unconfined Aquifer Slug Test)

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RESULTS FROM STATISTICAL CURVE MATCHING

STATISTICAL MATCH PARAMETER ESTIMATES

	Estimate		Std. Error
K =	5.0803E-004	+/-	1.9809E-004
y0 =	2.5218E+000	+/-	6.3316E-002

INCORPORATED
EFFECTIVE:
JUN 15 1993
UTAH DIVISION OIL, GAS AND MINING

ANALYSIS OF MODEL RESIDUALS

residual = calculated - observed
weighted residual = residual * weight

Weighted Residual Statistics:
- Number of residuals..... 7
- Number of estimated parameters.... 2
- Degrees of freedom..... 5
- Residual mean..... 1.909E-005
- Residual standard deviation..... 0.06857
- Residual variance..... 0.004702

A Q T E S O L V R E S U L T S
Version 1.10

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TEST DESCRIPTION

Data set..... DH2SLUG1.AQT
Data set title..... DH-2 SPRING CANYON SLUG INJECT. TEST #1
Company..... EarthFax Engineering
Project..... UC-192-06
Client..... CO-OP Mine
Location..... Huntington Canyon
Test date..... 9-25-91
Test well..... DH-1A

Knowns and Constants:
- No. of data points..... 1293
- Radius of well casing..... 0.0625
- Radius of well..... 0.1
- Aquifer saturated thickness..... 160
- Well screen length..... 20
- Static height of water in well..... 160
- Log(Re/Rw)..... 5.446
- A, B, C..... 0.000, 0.000, 6.905

ANALYTICAL METHOD

Bouwer-Rice (Unconfined Aquifer Slug Test)

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RESULTS FROM STATISTICAL CURVE MATCHING

STATISTICAL MATCH PARAMETER ESTIMATES

	Estimate		Std. Error
K =	8.9157E-006	+/-	1.2254E-006
y0 =	6.1118E-001	+/-	2.4554E-003

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EFFECTIVE:
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UTAH DIVISION OIL, GAS AND MINING

ANALYSIS OF MODEL RESIDUALS

residual = calculated - observed
weighted residual = residual * weight

Weighted Residual Statistics:
- Number of residuals..... 172
- Number of estimated parameters.... 2
- Degrees of freedom..... 170
- Residual mean..... 4.871E-007
- Residual standard deviation..... 0.01495
- Residual variance..... 0.0002234

del Residuals:

Time	Observed	Calculated	Residual	Weight
0.016667	0.74844	0.61101	0.13743	1
0.033333	0.7185	0.61084	0.10766	1
0.15	0.66861	0.60964	0.058968	1
0.16667	0.61871	0.60947	0.0092381	1
0.18333	0.60873	0.6093	-0.00057175	1
0.2	0.59875	0.60913	-0.010382	1
0.21667	0.59875	0.60896	-0.010211	1
0.25	0.59875	0.60862	-0.0098711	1
0.26667	0.59875	0.60845	-0.0097011	1
0.28333	0.59875	0.60828	-0.0095312	1
0.3	0.59875	0.60811	-0.0093612	1
0.31667	0.59875	0.60794	-0.0091913	1
0.33333	0.59875	0.60777	-0.0090215	1
0.35	0.59875	0.6076	-0.0088517	1
0.36667	0.59875	0.60743	-0.0086819	1
0.38333	0.59875	0.60726	-0.0085123	1
0.4	0.59875	0.60709	-0.0083426	1
0.41667	0.59875	0.60692	-0.008173	1
0.43333	0.59875	0.60675	-0.0080035	1
0.45	0.59875	0.60658	-0.007834	1
0.46667	0.59875	0.60641	-0.0076645	1
0.48333	0.59875	0.60625	-0.0074951	1
0.5	0.59875	0.60608	-0.0073257	1
0.51667	0.59875	0.60591	-0.0071564	1
0.53333	0.59875	0.60574	-0.0069872	1
0.55	0.59875	0.60557	-0.0068179	1
0.56667	0.59875	0.6054	-0.0066487	1
0.58333	0.59454	0.60523	-0.01069	1
0.6	0.59875	0.60506	-0.0063106	1
0.61667	0.59875	0.60489	-0.0061415	1
0.63333	0.59875	0.60472	-0.0059726	1
0.65	0.59875	0.60455	-0.0058036	1
0.66667	0.59875	0.60438	-0.0056347	1
0.68333	0.59875	0.60422	-0.0054659	1
0.7	0.59875	0.60405	-0.0052971	1
0.71667	0.59875	0.60388	-0.0051283	1
0.73333	0.59875	0.60371	-0.0049597	1
0.75	0.59875	0.60354	-0.004791	1
0.76667	0.59875	0.60337	-0.0046224	1
0.78333	0.59875	0.6032	-0.0044539	1
0.8	0.59875	0.60304	-0.0042853	1
0.81667	0.59875	0.60287	-0.0041168	1
0.83333	0.59875	0.6027	-0.0039485	1
0.85	0.59875	0.60253	-0.0037801	1
0.86667	0.59875	0.60236	-0.0036117	1
0.88333	0.59875	0.60219	-0.0034435	1
0.9	0.59875	0.60203	-0.0032752	1
0.91667	0.59875	0.60186	-0.003107	1
0.93333	0.59875	0.60169	-0.002939	1
0.95	0.59875	0.60152	-0.0027708	1
0.96667	0.59875	0.60135	-0.0026028	1
0.98333	0.59875	0.60118	-0.0024348	1

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1	0.59875	0.60102	-0.0022668	1
1.0167	0.59875	0.60085	-0.0020986	1
1.0333	0.59875	0.60068	-0.0019314	1
1.05	0.59875	0.60051	-0.0017633	1
1.0667	0.59875	0.60035	-0.0015952	1
1.0833	0.59875	0.60018	-0.0014281	1
1.1	0.59875	0.60001	-0.0012601	1
1.1167	0.59875	0.59984	-0.0010922	1
1.1333	0.59875	0.59968	-0.00092529	1
1.15	0.59875	0.59951	-0.00075743	1
1.1667	0.59875	0.59934	-0.00058962	1
1.1833	0.59875	0.59917	-0.00042285	1
1.2	0.59454	0.59901	-0.0044651	1
1.2167	0.59875	0.59884	-8.746E-005	1
1.2333	0.59875	0.59867	7.9163E-005	1
1.25	0.59875	0.5985	0.00024674	1
1.2667	0.59875	0.59834	0.00041428	1
1.2833	0.59875	0.59817	0.00058076	1
1.3	0.59875	0.598	0.0007482	1
1.3167	0.59875	0.59783	0.00091559	1
1.3333	0.59875	0.59767	0.0010819	1
1.35	0.59875	0.5975	0.0012492	1
1.3667	0.59875	0.59733	0.0014165	1
1.3833	0.59875	0.59717	0.0015827	1
1.4	0.59875	0.597	0.0017498	1
1.4167	0.58877	0.59683	-0.008063	1
1.4333	0.59875	0.59667	0.002083	1
1.45	0.59875	0.5965	0.00225	1
1.4667	0.59875	0.59633	0.002417	1
1.4833	0.59875	0.59617	0.0025829	1
1.5	0.58877	0.596	-0.0072302	1
1.5167	0.58877	0.59583	-0.0070633	1
1.5333	0.58877	0.59567	-0.0068976	1
1.55	0.58877	0.5955	-0.0067308	1
1.5667	0.58877	0.59533	-0.0065641	1
1.5833	0.58877	0.59517	-0.0063985	1
1.6	0.58877	0.595	-0.0062319	1
1.6167	0.58877	0.59484	-0.0060653	1
1.6333	0.58877	0.59467	-0.0058998	1
1.65	0.58877	0.5945	-0.0057334	1
1.6667	0.58877	0.59434	-0.0055669	1
1.6833	0.58877	0.59417	-0.0054016	1
1.7	0.58877	0.59401	-0.0052359	1
1.7167	0.58877	0.59384	-0.005069	1
1.7333	0.58877	0.59367	-0.0049037	1
1.75	0.58877	0.59351	-0.0047376	1
1.7667	0.58877	0.59334	-0.0045714	1
1.7833	0.58877	0.59318	-0.0044063	1
1.8	0.58877	0.59301	-0.0042403	1
1.8167	0.58877	0.59284	-0.0040743	1
1.8333	0.58877	0.59268	-0.0039093	1
1.85	0.58877	0.59251	-0.0037434	1
1.8667	0.58877	0.59235	-0.0035776	1
1.8833	0.58877	0.59218	-0.0034126	1
1.9	0.58877	0.59202	-0.003247	1
1.9167	0.58877	0.59185	-0.0030813	1
1.9333	0.58877	0.59169	-0.0029166	1
1.95	0.58877	0.59152	-0.002751	1

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1.9667	0.58877	0.59136	-0.0025854	1
1.9833	0.58877	0.59119	-0.0024209	1
2	0.58877	0.59103	-0.0022554	1
2.0167	0.58877	0.59086	-0.0020899	1
2.0333	0.58877	0.5907	-0.0019255	1
2.05	0.58877	0.59053	-0.0017602	1
2.0667	0.58877	0.59036	-0.0015949	1
2.0833	0.58877	0.5902	-0.0014306	1
2.1	0.58877	0.59004	-0.0012654	1
2.1167	0.58877	0.58987	-0.0011003	1
2.1333	0.58877	0.58971	-0.00093613	1
2.15	0.58877	0.58954	-0.00077105	1
2.1667	0.58877	0.58938	-0.00060603	1
2.1833	0.58877	0.58921	-0.00044204	1
2.2	0.58877	0.58905	-0.00027711	1
2.2167	0.58877	0.58888	-0.00011222	1
2.2333	0.58877	0.58872	5.163E-005	1
2.25	0.58877	0.58855	0.00021642	1
2.2667	0.58877	0.58839	0.00038117	1
2.2833	0.58877	0.58823	0.00054489	1
2.3	0.58877	0.58806	0.00070954	1
2.3167	0.58877	0.5879	0.00087415	1
2.3333	0.58877	0.58773	0.0010377	1
2.35	0.58877	0.58757	0.0012022	1
2.3667	0.58877	0.5874	0.0013667	1
2.3833	0.58877	0.58724	0.0015302	1
2.4	0.58877	0.58708	0.0016945	1
2.4167	0.58877	0.58691	0.0018589	1
2.4333	0.58877	0.58675	0.0020222	1
2.45	0.58877	0.58658	0.0021864	1
2.4667	0.58877	0.58642	0.0023506	1
2.4833	0.58456	0.58626	-0.0016962	1
2.5	0.58877	0.58609	0.0026779	1
2.5167	0.58877	0.58593	0.002842	1
2.5333	0.58877	0.58577	0.003005	1
2.55	0.58877	0.5856	0.0031689	1
2.5667	0.58456	0.58544	-0.00087713	1
2.5833	0.58877	0.58527	0.0034958	1
2.6	0.58877	0.58511	0.0036596	1
2.6167	0.58877	0.58495	0.0038234	1
2.6333	0.58877	0.58478	0.0039861	1
2.65	0.58877	0.58462	0.0041498	1
2.6667	0.58877	0.58446	0.0043135	1
2.6833	0.58877	0.58429	0.0044761	1
2.7	0.58877	0.58413	0.0046391	1
2.7167	0.58877	0.58397	0.0048032	1
2.7333	0.58877	0.5838	0.0049656	1
2.75	0.58877	0.58364	0.0051291	1
2.7667	0.58877	0.58348	0.0052924	1
2.7833	0.58877	0.58332	0.0054548	1
2.8	0.58877	0.58315	0.0056181	1
2.8167	0.58877	0.58299	0.0057813	1
2.8333	0.58877	0.58283	0.0059435	1
2.85	0.58877	0.58266	0.0061067	1
2.8667	0.58877	0.5825	0.0062698	1
2.8833	0.58877	0.58234	0.0064318	1
2.9	0.58877	0.58218	0.0065948	1
2.9167	0.58877	0.58201	0.0067578	1

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2.9333	0.58877	0.58185	0.0069197	1
2.95	0.58877	0.58169	0.0070826	1
2.9667	0.58456	0.58152	0.0030354	1
2.9833	0.58877	0.58136	0.0074073	1

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RESULTS FROM VISUAL CURVE MATCHING

VISUAL MATCH PARAMETER ESTIMATES

	Estimate
K =	8.9157E-006
y0 =	6.1118E-001

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SUPERSEDED
EFFECTIVE:
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EFFECTIVE:
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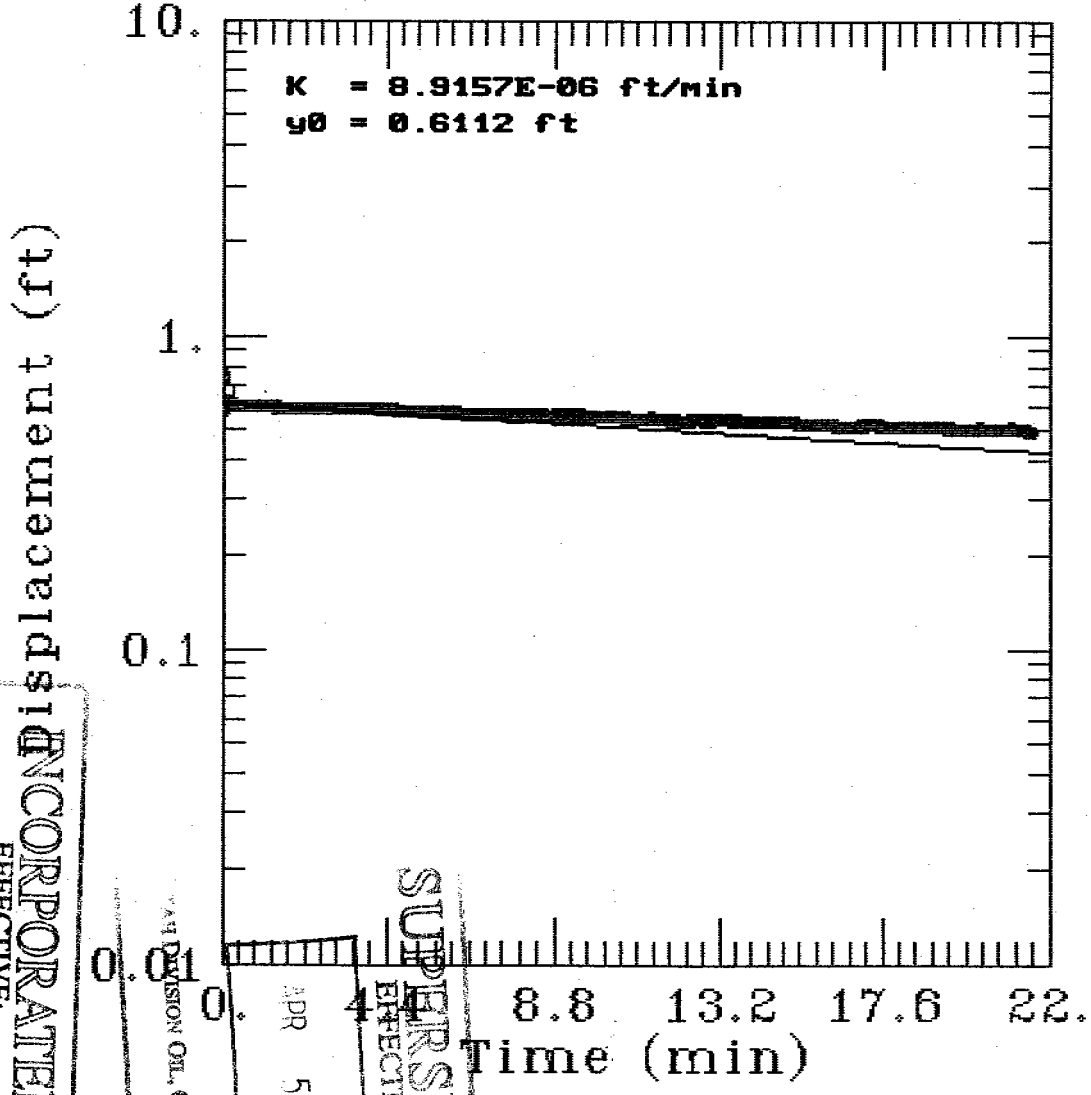
DH-2 SPRING CANYON SLUG INJECT. TEST #1



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TEST DESCRIPTION

Data set..... STDH2S3.AQT
Data set title..... DH-2 STORRS SLUG INJECTION TEST #3
Company..... EarthFax Engineering
Project..... UC-192-06
Client..... CO-OP Mine
Location..... Huntington Canyon
Test date..... 9-25-91
Test well..... DH-1A

Knowns and Constants:
No. of data points..... 941
Radius of well casing..... 0.1
Radius of well..... 0.1
Aquifer saturated thickness..... 106
Well screen length..... 104
Static height of water in well..... 335
Log(Re/Rw)..... 6.78
A, B, C..... 0.000, 0.000, 12.441

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ANALYTICAL METHOD

Bouwer-Rice (Unconfined Aquifer Slug Test)

SUPERSEDED
EFFECTIVE:
APR 5 1995
UTAH DIVISION OIL, GAS AND MINING

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RESULTS FROM STATISTICAL CURVE MATCHING

STATISTICAL MATCH PARAMETER ESTIMATES

	Estimate		Std. Error
K =	5.4463E-002	+/-	5.0463E-002
y0 =	8.2896E-001	+/-	4.4838E-001

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EFFECTIVE:
JUN 15 1993
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ANALYSIS OF MODEL RESIDUALS

residual = calculated - observed
weighted residual = residual * weight

Weighted Residual Statistics:
Number of residuals..... 4
Number of estimated parameters.... 2
Degrees of freedom..... 2
Residual mean..... 0.00599
Residual standard deviation..... 0.2297
Residual variance..... 0.05277

del Residuals:

Time	Observed	Calculated	Residual	Weight
0.0016667	0.75421	0.62748	0.12673	1
0.0033333	0.24438	0.47497	-0.23059	1
0.005	0.30484	0.35953	-0.054688	1
0.0066667	0.45465	0.27214	0.18251	1

RESULTS FROM VISUAL CURVE MATCHING

VISUAL MATCH PARAMETER ESTIMATES

	Estimate
K =	5.4463E-002
y0 =	8.2896E-001

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EFFECTIVE:
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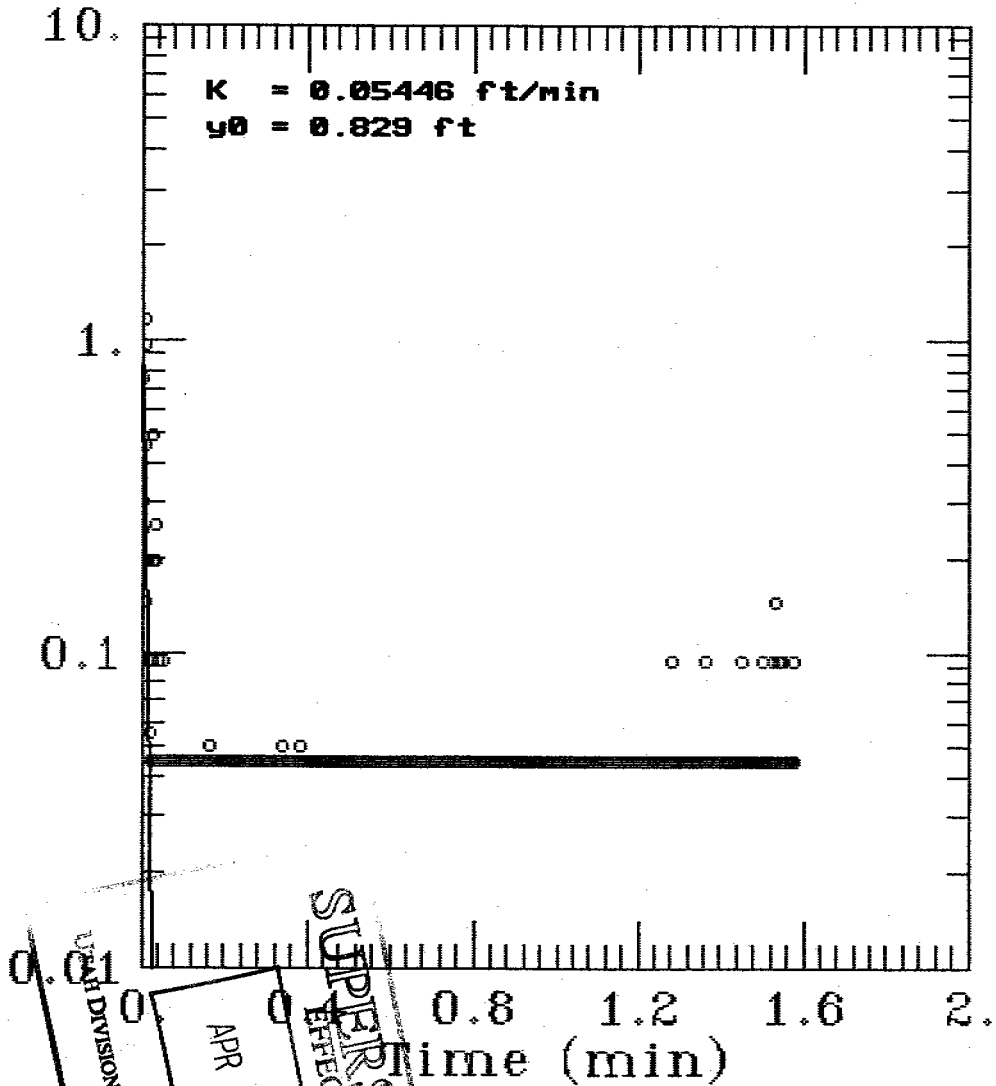
DH-2 STORRS SLUG INJECTION TEST #3



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05/12/92 01:04:11

TEST DESCRIPTION

Data set..... DH2PANS2.AQT
Data set title..... DH-2 PANTHER SLUG INJECTION TEST #2
Company..... EARTHFAX ENGINEERING
Project..... UC-192-06
Client..... CO-OP MINE
Location..... BEAR CANYON MINE
Test date..... 1-17-92
Test well..... DH-2

Knowns and Constants:
- No. of data points..... 1389
- Radius of well casing..... 0.1
- Radius of well..... 0.1
- Aquifer saturated thickness..... 88
- Well screen length..... 86
- Static height of water in well..... 190
- Log(Re/Rw)..... 6.259
- A, B, C..... 0.000, 0.000, 12.108

ANALYTICAL METHOD

Bouwer-Rice (Unconfined Aquifer Slug Test)

SUPERSEDED
EFFECTIVE:
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RESULTS FROM STATISTICAL CURVE MATCHING

STATISTICAL MATCH PARAMETER ESTIMATES

	Estimate		Std. Error
K =	1.7629E-005	+/-	1.1944E-006
y0 =	5.7739E-001	+/-	5.0445E-003

INCORPORATED
EFFECTIVE:
JUN 15 1993
UTAH DIVISION OIL, GAS AND MINING

ANALYSIS OF MODEL RESIDUALS

residual = calculated - observed
weighted residual = residual * weight

Weighted Residual Statistics:
- Number of residuals..... 287
- Number of estimated parameters.... 2
- Degrees of freedom..... 285
- Residual mean..... -1.023E-005
- Residual standard deviation..... 0.03926
- Residual variance..... 0.001541

Model Residuals:

Time	Observed	Calculated	Residual	Weight
0.083333	0.54905	0.57506	-0.02601	1
0.1	0.54905	0.5746	-0.025546	1
0.11667	0.54905	0.57413	-0.025083	1
0.13333	0.54905	0.57367	-0.024619	1
0.15	0.62737	0.57321	0.054164	1
0.16667	0.57747	0.57274	0.0047266	1
0.18333	0.54905	0.57228	-0.023231	1
0.2	0.54905	0.57182	-0.022769	1
0.21667	0.54905	0.57136	-0.022308	1
0.23333	0.54905	0.5709	-0.021846	1
0.25	0.3494	0.57044	-0.22104	1
0.26667	0.44922	0.56998	-0.12076	1
0.28333	0.827	0.56952	0.25748	1
0.3	0.49914	0.56906	-0.069915	1
0.31667	0.57747	0.5686	0.0088739	1
0.33333	0.54905	0.56814	-0.019087	1
0.35	0.57747	0.56768	0.0097914	1
0.36667	0.54905	0.56722	-0.01817	1
0.38333	0.54905	0.56676	-0.017713	1
0.4	0.54905	0.56631	-0.017255	1
0.41667	0.54905	0.56585	-0.016798	1
0.43333	0.54905	0.56539	-0.016341	1
0.45	0.54905	0.56493	-0.015885	1
0.46667	0.57747	0.56448	0.012991	1
0.48333	0.54905	0.56402	-0.014973	1
0.5	0.57747	0.56357	0.013902	1
0.51667	0.54905	0.56311	-0.014063	1
0.53333	0.57747	0.56266	0.014811	1
0.55	0.54905	0.5622	-0.013154	1
0.56667	0.54905	0.56175	-0.012701	1
0.58333	0.54905	0.5613	-0.012247	1
0.6	0.57747	0.56084	0.016626	1
0.61667	0.54905	0.56039	-0.011341	1
0.63333	0.54905	0.55994	-0.010889	1
0.65	0.57747	0.55949	0.017983	1
0.66667	0.54905	0.55904	-0.0099855	1
0.68333	0.54905	0.55858	-0.0095311	1
0.7	0.54905	0.55813	-0.0090854	1
0.71667	0.54905	0.55768	-0.0086329	1
0.73333	0.54905	0.55723	-0.0081828	1
0.75	0.54905	0.55678	-0.007733	1
0.76667	0.54905	0.55633	-0.0072836	1
0.78333	0.57747	0.55588	0.021585	1
0.8	0.54905	0.55544	-0.0063858	1
0.81667	0.57747	0.55499	0.022483	1
0.83333	0.67728	0.55454	0.12274	1
0.85	0.14974	0.55409	-0.40435	1
0.86667	0.64887	0.55364	0.095225	1
0.88333	0.54905	0.5532	-0.0041478	1
0.9	0.54905	0.55275	-0.0037013	1
0.91667	0.57747	0.55231	0.025165	1
0.93333	0.54905	0.55186	-0.0028093	1

SUPERSEDED
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0.95	0.54905	0.55141	-0.0023639	1
0.96667	0.57747	0.55097	0.026501	1
0.98333	0.54905	0.55052	-0.0014741	1
1	0.54905	0.55008	-0.0010297	1
1.0167	0.54905	0.54964	-0.0005856	1
1.0333	0.57747	0.54919	0.028278	1
1.05	0.57747	0.54875	0.028721	1
1.0667	0.57747	0.54831	0.029164	1
1.0833	0.57747	0.54786	0.029607	1
1.1	0.54905	0.54742	0.001629	1
1.1167	0.57747	0.54698	0.030491	1
1.1333	0.54905	0.54654	0.0025122	1
1.15	0.57747	0.5461	0.031373	1
1.1667	0.54905	0.54566	0.0033944	1
1.1833	0.57747	0.54522	0.032255	1
1.2	0.54905	0.54478	0.0042748	1
1.2167	0.57747	0.54434	0.033135	1
1.2333	0.54905	0.5439	0.0051538	1
1.25	0.54905	0.54346	0.0055929	1
1.2667	0.54905	0.54302	0.0060316	1
1.2833	0.54905	0.54258	0.0064698	1
1.3	0.57747	0.54214	0.035328	1
1.3167	0.54905	0.5417	0.0073455	1
1.3333	0.54905	0.54127	0.0077826	1
1.35	0.57747	0.54083	0.03664	1
1.3667	0.57747	0.54039	0.037076	1
1.3833	0.57747	0.53996	0.037512	1
1.4	0.54905	0.53952	0.0095281	1
1.4167	0.54905	0.53909	0.0099637	1
1.4333	0.57747	0.53865	0.038819	1
1.45	0.57747	0.53822	0.039254	1
1.4667	0.57747	0.53778	0.039688	1
1.4833	0.57747	0.53735	0.040122	1
1.5	0.57747	0.53691	0.040556	1
1.5167	0.57747	0.53648	0.040989	1
1.5333	0.57747	0.53605	0.041422	1
1.55	0.54905	0.53562	0.013435	1
1.5667	0.54905	0.53518	0.013867	1
1.5833	0.52757	0.53475	-0.0071809	1
1.6	0.52757	0.53432	-0.0067492	1
1.6167	0.57747	0.53389	0.043582	1
1.6333	0.57747	0.53346	0.044013	1
1.65	0.52757	0.53303	-0.0054564	1
1.6667	0.54905	0.5326	0.016454	1
1.6833	0.49914	0.53217	-0.033026	1
1.7	0.52757	0.53174	-0.0041667	1
1.7167	0.57747	0.53131	0.046163	1
1.7333	0.54905	0.53088	0.018171	1
1.75	0.49914	0.53045	-0.03131	1
1.7667	0.54905	0.53002	0.019028	1
1.7833	0.49914	0.52959	-0.030454	1
1.8	0.49914	0.52917	-0.030027	1
1.8167	0.49914	0.52874	-0.0296	1
1.8333	0.49914	0.52831	-0.029173	1
1.85	0.52757	0.52789	-0.00031639	1
1.8667	0.52757	0.52746	0.00010979	1
1.8833	0.52757	0.52703	0.00053537	1
1.9	0.54905	0.52661	0.022441	1

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1.9167	0.49914	0.52618	-0.027044	1
1.9333	0.52757	0.52576	0.0018105	1
1.95	0.49914	0.52533	-0.026195	1
1.9667	0.52757	0.52491	0.0026591	1
1.9833	0.54905	0.52449	0.024563	1
2	0.49914	0.52406	-0.024924	1
2.0167	0.54905	0.52364	0.025409	1
2.0333	0.49914	0.52322	-0.024078	1
2.05	0.52757	0.5228	0.0047741	1
2.0667	0.52757	0.52237	0.0051961	1
2.0833	0.49914	0.52195	-0.022812	1
2.1	0.49914	0.52153	-0.022391	1
2.1167	0.49914	0.52111	-0.02197	1
2.1333	0.49914	0.52069	-0.021549	1
2.15	0.52757	0.52027	0.0073009	1
2.1667	0.52757	0.51985	0.0077209	1
2.1833	0.52757	0.51943	0.0081403	1
2.2	0.52757	0.51901	0.0085597	1
2.2167	0.52757	0.51859	0.0089787	1
2.2333	0.52757	0.51817	0.0093971	1
2.25	0.52757	0.51775	0.0098155	1
2.2667	0.52757	0.51734	0.010233	1
2.2833	0.49914	0.51692	-0.017779	1
2.3	0.49914	0.5165	-0.017362	1
2.3167	0.49914	0.51608	-0.016945	1
2.3333	0.49914	0.51567	-0.016528	1
2.35	0.49914	0.51525	-0.016112	1
2.3667	0.52757	0.51484	0.012734	1
2.3833	0.49914	0.51442	-0.015281	1
2.4	0.49914	0.51401	-0.014865	1
2.4167	0.49914	0.51359	-0.01445	1
2.4333	0.49914	0.51318	-0.014036	1
2.45	0.49914	0.51276	-0.013622	1
2.4667	0.49914	0.51235	-0.013208	1
2.4833	0.49914	0.51193	-0.012794	1
2.5	0.49914	0.51152	-0.012381	1
2.5167	0.49914	0.51111	-0.011968	1
2.5333	0.49914	0.5107	-0.011556	1
2.55	0.49914	0.51028	-0.011143	1
2.5667	0.52757	0.50987	0.017698	1
2.5833	0.52757	0.50946	0.01811	1
2.6	0.52757	0.50905	0.018521	1
2.6167	0.52757	0.50864	0.018932	1
2.6333	0.52757	0.50823	0.019343	1
2.65	0.49914	0.50782	-0.0086772	1
2.6667	0.52757	0.50741	0.020161	1
2.6833	0.49914	0.507	-0.0078578	1
2.7	0.49914	0.50659	-0.0074485	1
2.7167	0.49914	0.50618	-0.0070395	1
2.7333	0.52757	0.50577	0.021799	1
2.75	0.52757	0.50536	0.022207	1
2.7667	0.52757	0.50495	0.022615	1
2.7833	0.49914	0.50455	-0.0054074	1
2.8	0.49914	0.50414	-0.005	1
2.8167	0.49914	0.50373	-0.004593	1
2.8333	0.52757	0.50333	0.024243	1
2.85	0.52757	0.50292	0.02465	1
2.8667	0.49914	0.50251	-0.0033742	1

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2.8833	0.49914	0.50211	-0.0029688	1
2.9	0.49914	0.5017	-0.0025634	1
2.9167	0.52757	0.5013	0.026272	1
2.9333	0.52757	0.50089	0.026676	1
2.95	0.52757	0.50049	0.02708	1
2.9667	0.52757	0.50009	0.027485	1
2.9833	0.49914	0.49968	-0.00054196	1
3	0.49914	0.49928	-0.00013855	1
3.0167	0.49914	0.49888	0.00026453	1
3.0333	0.49914	0.49847	0.00066705	1
3.05	0.49914	0.49807	0.0010695	1
3.0667	0.49914	0.49767	0.0014716	1
3.0833	0.52757	0.49727	0.030303	1
3.1	0.52757	0.49687	0.030705	1
3.1167	0.49914	0.49646	0.0026757	1
3.1333	0.49914	0.49606	0.0030763	1
3.15	0.49914	0.49566	0.0034768	1
3.1667	0.52757	0.49526	0.032307	1
3.1833	0.52757	0.49486	0.032707	1
3.2	0.52757	0.49446	0.033106	1
3.2167	0.49914	0.49406	0.0050752	1
3.2333	0.49914	0.49367	0.0054739	1
3.25	0.52757	0.49327	0.034302	1
3.2667	0.49914	0.49287	0.0062707	1
3.2833	0.49914	0.49247	0.0066683	1
3.3	0.49914	0.49207	0.0070659	1
3.3167	0.52757	0.49168	0.035893	1
3.3333	0.49914	0.49128	0.0078599	1
3.35	0.52757	0.49088	0.036687	1
3.3667	0.49914	0.49049	0.0086528	1
3.3833	0.49914	0.49009	0.0090486	1
3.4	0.49914	0.4897	0.0094442	1
3.4167	0.49914	0.4893	0.0098396	1
3.4333	0.44922	0.48891	-0.039686	1
3.45	0.47766	0.48851	-0.010851	1
3.4667	0.52757	0.48812	0.039453	1
3.4833	0.52757	0.48772	0.039847	1
3.5	0.49914	0.48733	0.011811	1
3.5167	0.49914	0.48694	0.012204	1
3.5333	0.52757	0.48654	0.041027	1
3.55	0.44922	0.48615	-0.03693	1
3.5667	0.44922	0.48576	-0.036537	1
3.5833	0.44922	0.48537	-0.036145	1
3.6	0.47766	0.48497	-0.0073136	1
3.6167	0.44922	0.48458	-0.035362	1
3.6333	0.47766	0.48419	-0.0065311	1
3.65	0.47766	0.4838	-0.0061402	1
3.6667	0.49914	0.48341	0.01573	1
3.6833	0.44922	0.48302	-0.0338	1
3.7	0.47766	0.48263	-0.0049695	1
3.7167	0.44922	0.48224	-0.03302	1
3.7333	0.44922	0.48185	-0.032631	1
3.75	0.44922	0.48146	-0.032242	1
3.7667	0.47766	0.48107	-0.0034132	1
3.7833	0.47766	0.48069	-0.003025	1
3.8	0.44922	0.4803	-0.031077	1
3.8167	0.44922	0.47991	-0.030689	1
3.8333	0.47766	0.47952	-0.001862	1

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3.85	0.49914	0.47913	0.020005	1
3.8667	0.44922	0.47875	-0.029528	1
3.8833	0.44922	0.47836	-0.029142	1
3.9	0.47766	0.47798	-0.00031556	1
3.9167	0.49914	0.47759	0.02155	1
3.9333	0.44922	0.4772	-0.027984	1
3.95	0.44922	0.47682	-0.027599	1
3.9667	0.47766	0.47643	0.0012259	1
3.9833	0.49914	0.47605	0.02309	1
4	0.44922	0.47567	-0.026445	1
4.0167	0.44922	0.47528	-0.026061	1
4.0333	0.47766	0.4749	0.0027621	1
4.05	0.47766	0.47451	0.0031455	1
4.0667	0.44922	0.47413	-0.024911	1
4.0833	0.47766	0.47375	0.0039111	1
4.1	0.47766	0.47337	0.0042936	1
4.1167	0.44922	0.47298	-0.023764	1
4.1333	0.44922	0.4726	-0.023383	1
4.15	0.47766	0.47222	0.0054389	1
4.1667	0.47766	0.47184	0.0058202	1
4.1833	0.44922	0.47146	-0.022239	1
4.2	0.44922	0.47108	-0.021859	1
4.2167	0.44922	0.4707	-0.021478	1
4.2333	0.47766	0.47032	0.0073416	1
4.25	0.47766	0.46994	0.0077213	1
4.2667	0.44922	0.46956	-0.020339	1
4.2833	0.44922	0.46918	-0.01996	1
4.3	0.47766	0.4688	0.0088583	1
4.3167	0.47766	0.46842	0.0092368	1
4.3333	0.44922	0.46805	-0.018825	1
4.35	0.44922	0.46767	-0.018447	1
4.3667	0.47766	0.46729	0.01037	1
4.3833	0.44922	0.46691	-0.017693	1
4.4	0.44922	0.46654	-0.017316	1
4.4167	0.47766	0.46616	0.011501	1
4.4333	0.47766	0.46578	0.011877	1
4.45	0.44922	0.46541	-0.016187	1
4.4667	0.44922	0.46503	-0.015811	1
4.4833	0.44922	0.46466	-0.015436	1
4.5	0.47766	0.46428	0.013379	1
4.5167	0.44922	0.46391	-0.014686	1
4.5333	0.44922	0.46353	-0.014312	1
4.55	0.44922	0.46316	-0.013936	1
4.5667	0.47766	0.46278	0.014876	1
4.5833	0.47766	0.46241	0.01525	1
4.6	0.44922	0.46204	-0.012817	1
4.6167	0.44922	0.46166	-0.012444	1
4.6333	0.47766	0.46129	0.016369	1
4.65	0.44922	0.46092	-0.011699	1
4.6667	0.44922	0.46055	-0.011327	1
4.6833	0.44922	0.46018	-0.010955	1
4.7	0.47766	0.4598	0.017856	1
4.7167	0.44922	0.45943	-0.010213	1
4.7333	0.44922	0.45906	-0.009842	1
4.75	0.44922	0.45869	-0.0094713	1
4.7667	0.47766	0.45832	0.019339	1
4.7833	0.44922	0.45795	-0.0087312	1
4.8	0.44922	0.45758	-0.0083615	1

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4.8167	0.47766	0.45721	0.020448	1
4.8333	0.47766	0.45684	0.020817	1
4.85	0.47766	0.45647	0.021186	1

==

RESULTS FROM VISUAL CURVE MATCHING

VISUAL MATCH PARAMETER ESTIMATES

	Estimate
K =	1.7629E-005
y0 =	5.7739E-001

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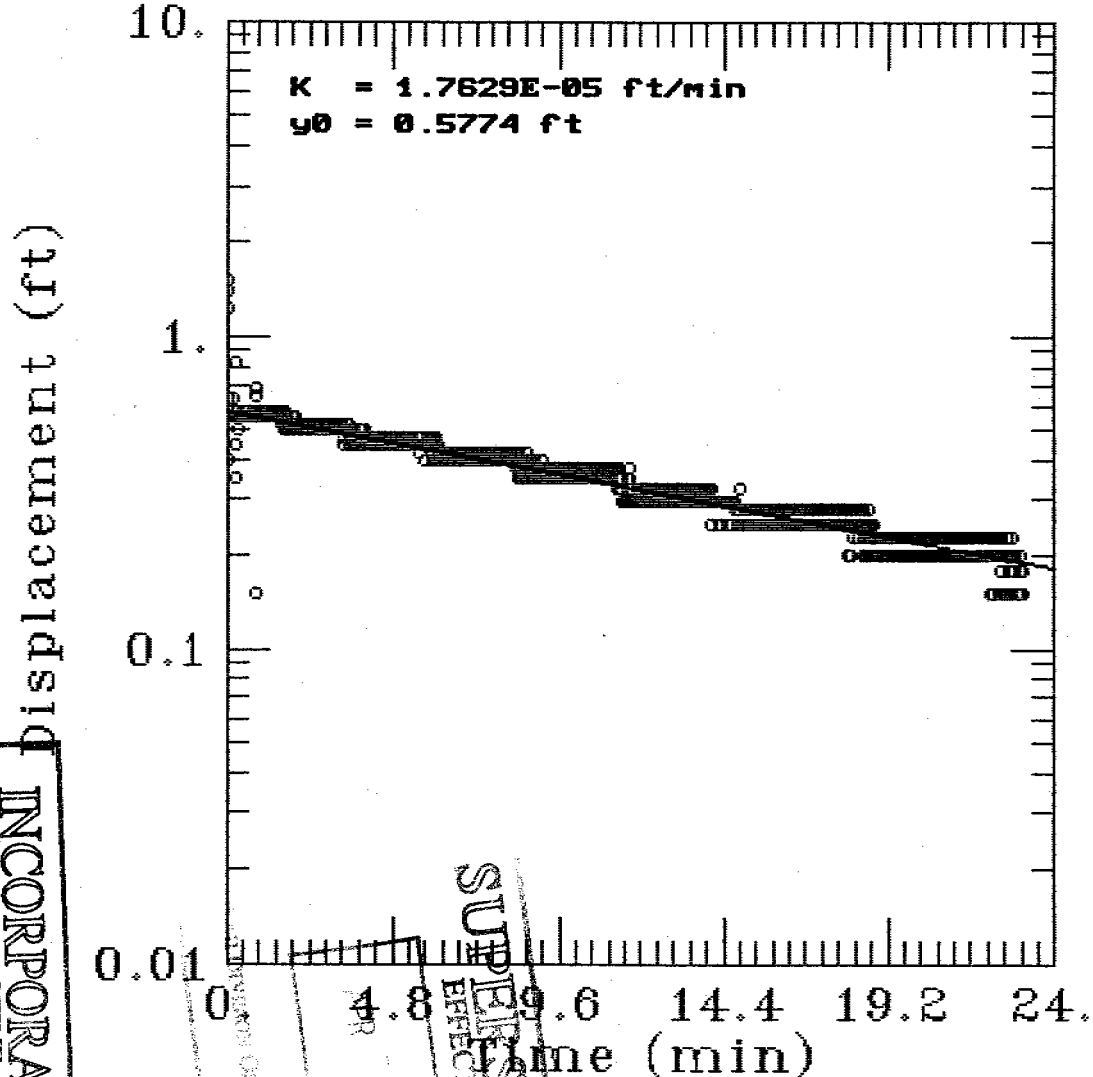
DH-2 PANTHER SLUG INJECTION TEST #2



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SUPERSEDE
EFFECTIVE

A Q T E S O L V R E S U L T S
Version 1.10

05/12/92 00:31:40

TEST DESCRIPTION

Data set..... DH3SLUG1.AQT
Data set title..... DH-3 SPRING CANYON SLUG INJECT. TEST #1
Company..... EarthFax Engineering
Project..... UC-192-06
Client..... CO-OP Mine
Location..... Huntington Canyon
Test date..... 9-25-91
Test well..... DH-1A

Knowns and Constants:
- No. of data points..... 1684
- Radius of well casing..... 0.1
- Radius of well..... 0.1
- Aquifer saturated thickness..... 50
- Well screen length..... 20
- Static height of water in well..... 50
- Log(Re/Rw)..... 4.728
- A, B, C..... 0.000, 0.000, 6.905

ANALYTICAL METHOD

Bouwer-Rice (Unconfined Aquifer Slug Test)

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Utah Division Oil, Gas & Mining

RESULTS FROM STATISTICAL CURVE MATCHING

STATISTICAL MATCH PARAMETER ESTIMATES

	Estimate		Std. Error
K =	4.0617E-005	+/-	3.2767E-006
y0 =	6.0298E-001	+/-	2.8161E-003

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UTAH DIVISION OIL, GAS AND MINING

ANALYSIS OF MODEL RESIDUALS

residual = calculated - observed
weighted residual = residual * weight

Weighted Residual Statistics:
- Number of residuals..... 179
- Number of estimated parameters.... 2
- Degrees of freedom..... 177
- Residual mean..... 1.704E-006
- Residual standard deviation..... 0.01828
- Residual variance..... 0.0003342

del Residuals:

Time	Observed	Calculated	Residual	Weight
0.016667	0.7684	0.60264	0.16576	1
0.033333	0.75842	0.60229	0.15613	1
0.05	0.57879	0.60195	-0.02316	1
0.066667	0.56882	0.6016	-0.032785	1
0.083333	0.59875	0.60126	-0.0025104	1
0.1	0.59875	0.60092	-0.0021661	1
0.11667	0.59875	0.60057	-0.001822	1
0.13333	0.59875	0.60023	-0.0014782	1
0.15	0.59875	0.59988	-0.0011344	1
0.16667	0.59875	0.59954	-0.00079087	1
0.18333	0.59875	0.5992	-0.0004477	1
0.2	0.58877	0.59885	-0.010085	1
0.21667	0.59875	0.59851	0.00023845	1
0.23333	0.59875	0.59817	0.00058102	1
0.25	0.59875	0.59783	0.00092361	1
0.26667	0.58877	0.59748	-0.008714	1
0.28333	0.58877	0.59714	-0.008372	1
0.3	0.58877	0.5968	-0.00803	1
0.31667	0.58877	0.59646	-0.0076882	1
0.33333	0.58877	0.59612	-0.0073468	1
0.35	0.58877	0.59578	-0.0070054	1
0.36667	0.58877	0.59543	-0.0066642	1
0.38333	0.58877	0.59509	-0.0063234	1
0.4	0.58877	0.59475	-0.0059826	1
0.41667	0.58877	0.59441	-0.0056419	1
0.43333	0.58877	0.59407	-0.0053017	1
0.45	0.58877	0.59373	-0.0049615	1
0.46667	0.58877	0.59339	-0.0046214	1
0.48333	0.58877	0.59305	-0.0042818	1
0.5	0.58877	0.59271	-0.0039421	1
0.51667	0.58877	0.59237	-0.0036027	1
0.53333	0.58877	0.59203	-0.0032636	1
0.55	0.58877	0.59169	-0.0029245	1
0.56667	0.58877	0.59136	-0.0025857	1
0.58333	0.58877	0.59102	-0.0022472	1
0.6	0.58877	0.59068	-0.0019087	1
0.61667	0.58877	0.59034	-0.0015704	1
0.63333	0.57879	0.59	-0.011212	1
0.65	0.58877	0.58966	-0.00089459	1
0.66667	0.58877	0.58933	-0.00055688	1
0.68333	0.57879	0.58899	-0.010199	1
0.7	0.57879	0.58865	-0.0098622	1
0.71667	0.57879	0.58832	-0.0095252	1
0.73333	0.57879	0.58798	-0.0091883	1
0.75	0.57879	0.58764	-0.0088516	1
0.76667	0.57879	0.58731	-0.0085151	1
0.78333	0.58877	0.58697	0.0018012	1
0.8	0.57879	0.58663	-0.0078427	1
0.81667	0.57879	0.5863	-0.0075068	1
0.83333	0.57879	0.58596	-0.0071711	1
0.85	0.57879	0.58563	-0.0068356	1
0.86667	0.57879	0.58529	-0.0065002	1

SUPERSEDED
EFFECTIVE:
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0.88333	0.57879	0.58496	-0.0061651	1
0.9	0.57879	0.58462	-0.0058301	1
0.91667	0.57879	0.58429	-0.0054954	1
0.93333	0.57879	0.58395	-0.0051608	1
0.95	0.57879	0.58362	-0.0048264	1
0.96667	0.57879	0.58328	-0.0044923	1
0.98333	0.57879	0.58295	-0.0041583	1
1	0.57879	0.58261	-0.0038245	1
1.0167	0.57879	0.58228	-0.0034908	1
1.0333	0.57879	0.58195	-0.0031575	1
1.05	0.57879	0.58161	-0.0028242	1
1.0667	0.57879	0.58128	-0.0024911	1
1.0833	0.57879	0.58095	-0.0021584	1
1.1	0.57879	0.58062	-0.0018257	1
1.1167	0.57879	0.58028	-0.0014931	1
1.1333	0.57879	0.57995	-0.001161	1
1.15	0.57879	0.57962	-0.00082885	1
1.1667	0.57879	0.57929	-0.00049689	1
1.1833	0.57879	0.57896	-0.00016532	1
1.2	0.57879	0.57862	0.00016626	1
1.2167	0.57879	0.57829	0.00049765	1
1.2333	0.57879	0.57796	0.00082865	1
1.25	0.57879	0.57763	0.0011597	1
1.2667	0.56882	0.5773	-0.0084795	1
1.2833	0.57879	0.57697	0.0018209	1
1.3	0.56882	0.57664	-0.0078186	1
1.3167	0.57879	0.57631	0.0024816	1
1.3333	0.56882	0.57598	-0.0071585	1
1.35	0.56882	0.57565	-0.0068286	1
1.3667	0.56882	0.57532	-0.006499	1
1.3833	0.56882	0.57499	-0.0061697	1
1.4	0.56882	0.57466	-0.0058403	1
1.4167	0.56882	0.57433	-0.0055112	1
1.4333	0.56882	0.574	-0.0051825	1
1.45	0.56882	0.57367	-0.0048537	1
1.4667	0.56882	0.57335	-0.0045252	1
1.4833	0.56882	0.57302	-0.004197	1
1.5	0.56882	0.57269	-0.0038688	1
1.5167	0.56882	0.57236	-0.0035408	1
1.5333	0.56882	0.57203	-0.0032132	1
1.55	0.56882	0.57171	-0.0028856	1
1.5667	0.56882	0.57138	-0.0025582	1
1.5833	0.56882	0.57105	-0.0022312	1
1.6	0.56882	0.57072	-0.0019041	1
1.6167	0.56882	0.5704	-0.0015772	1
1.6333	0.56882	0.57007	-0.0012507	1
1.65	0.56882	0.56974	-0.00092426	1
1.6667	0.56882	0.56942	-0.00059795	1
1.6833	0.56882	0.56909	-0.00027203	1
1.7	0.56882	0.56877	5.3903E-005	1
1.7167	0.5289	0.56844	-0.003954	1
1.7333	0.56882	0.56811	0.00070501	1
1.75	0.56882	0.56779	0.0010304	1
1.7667	0.56882	0.56746	0.0013556	1
1.7833	0.55884	0.56714	-0.0082996	1
1.8	0.56882	0.56681	0.0020052	1
1.8167	0.56882	0.56649	0.0023298	1
1.8333	0.56882	0.56617	0.0026541	1

SUPERSEDED
EFFECTIVE:
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INCORPORATED
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1.85	0.56882	0.56584	0.0029783	1
1.8667	0.55884	0.56552	-0.0066776	1
1.8833	0.56882	0.56519	0.0036261	1
1.9	0.56882	0.56487	0.0039498	1
1.9167	0.56882	0.56455	0.0042733	1
1.9333	0.56882	0.56422	0.0045964	1
1.95	0.56882	0.5639	0.0049196	1
1.9667	0.56882	0.56358	0.0052425	1
1.9833	0.55884	0.56325	-0.0044149	1
2	0.55884	0.56293	-0.0040923	1
2.0167	0.55884	0.56261	-0.0037699	1
2.0333	0.55884	0.56229	-0.0034479	1
2.05	0.55884	0.56197	-0.0031258	1
2.0667	0.55884	0.56164	-0.002804	1
2.0833	0.55884	0.56132	-0.0024825	1
2.1	0.57879	0.561	0.017789	1
2.1167	0.56882	0.56068	0.0081403	1
2.1333	0.56882	0.56036	0.0084612	1
2.15	0.55884	0.56004	-0.0011979	1
2.1667	0.55884	0.55972	-0.00087714	1
2.1833	0.55884	0.5594	-0.00055677	1
2.2	0.55884	0.55908	-0.00023639	1
2.2167	0.55884	0.55876	8.3802E-005	1
2.2333	0.55884	0.55844	0.00040362	1
2.25	0.55884	0.55812	0.00072345	1
2.2667	0.55884	0.5578	0.0010431	1
2.2833	0.55884	0.55748	0.0013624	1
2.3	0.55884	0.55716	0.0016816	1
2.3167	0.55884	0.55684	0.0020007	1
2.3333	0.55884	0.55652	0.0023195	1
2.35	0.55884	0.5562	0.0026382	1
2.3667	0.55884	0.55588	0.0029567	1
2.3833	0.55884	0.55557	0.0032749	1
2.4	0.55884	0.55525	0.0035931	1
2.4167	0.55884	0.55493	0.0039111	1
2.4333	0.56882	0.55461	0.014209	1
2.45	0.55884	0.55429	0.0045464	1
2.4667	0.55884	0.55398	0.0048638	1
2.4833	0.55884	0.55366	0.0051809	1
2.5	0.55884	0.55334	0.005498	1
2.5167	0.55884	0.55303	0.0058149	1
2.5333	0.54886	0.55271	-0.0038485	1
2.55	0.55884	0.55239	0.006446	1
2.5667	0.55884	0.55208	0.0067644	1
2.5833	0.55884	0.55176	0.0070804	1
2.6	0.55884	0.55144	0.0073964	1
2.6167	0.54886	0.55113	-0.0022678	1
2.6333	0.55884	0.55081	0.0080277	1
2.65	0.54886	0.5505	-0.0016369	1
2.6667	0.54886	0.55018	-0.0013216	1
2.6833	0.54886	0.54987	-0.0010064	1
2.7	0.54886	0.54955	-0.00069177	1
2.7167	0.54886	0.54924	-0.00037703	1
2.7333	0.54886	0.54892	-6.2655E-005	1
2.75	0.54886	0.54861	0.00025173	1
2.7667	0.54886	0.54829	0.00056593	1
2.7833	0.54886	0.54798	0.00087976	1
2.8	0.54886	0.54767	0.0011936	1

SUPERSEDED
EFFECTIVE:
APR 5 1995
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INCORPORATED
EFFECTIVE:
JUN 15 1993
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2.8167	0.54886	0.54735	0.0015073	1
2.8333	0.54886	0.54704	0.0018206	1
2.85	0.54886	0.54673	0.0021339	1
2.8667	0.54886	0.54641	0.002447	1
2.8833	0.54886	0.5461	0.0027597	1
2.9	0.54886	0.54579	0.0030725	1
2.9167	0.54886	0.54547	0.0033856	1
2.9333	0.54886	0.54516	0.0036967	1
2.95	0.54886	0.54485	0.0040095	1
2.9667	0.54886	0.54454	0.0043221	1
2.9833	0.54886	0.54423	0.0046327	1

==

RESULTS FROM VISUAL CURVE MATCHING

VISUAL MATCH PARAMETER ESTIMATES

	Estimate
K =	4.0617E-005
y0 =	6.0298E-001

<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<>>

SUPERSEDED
EFFECTIVE:
APR 5

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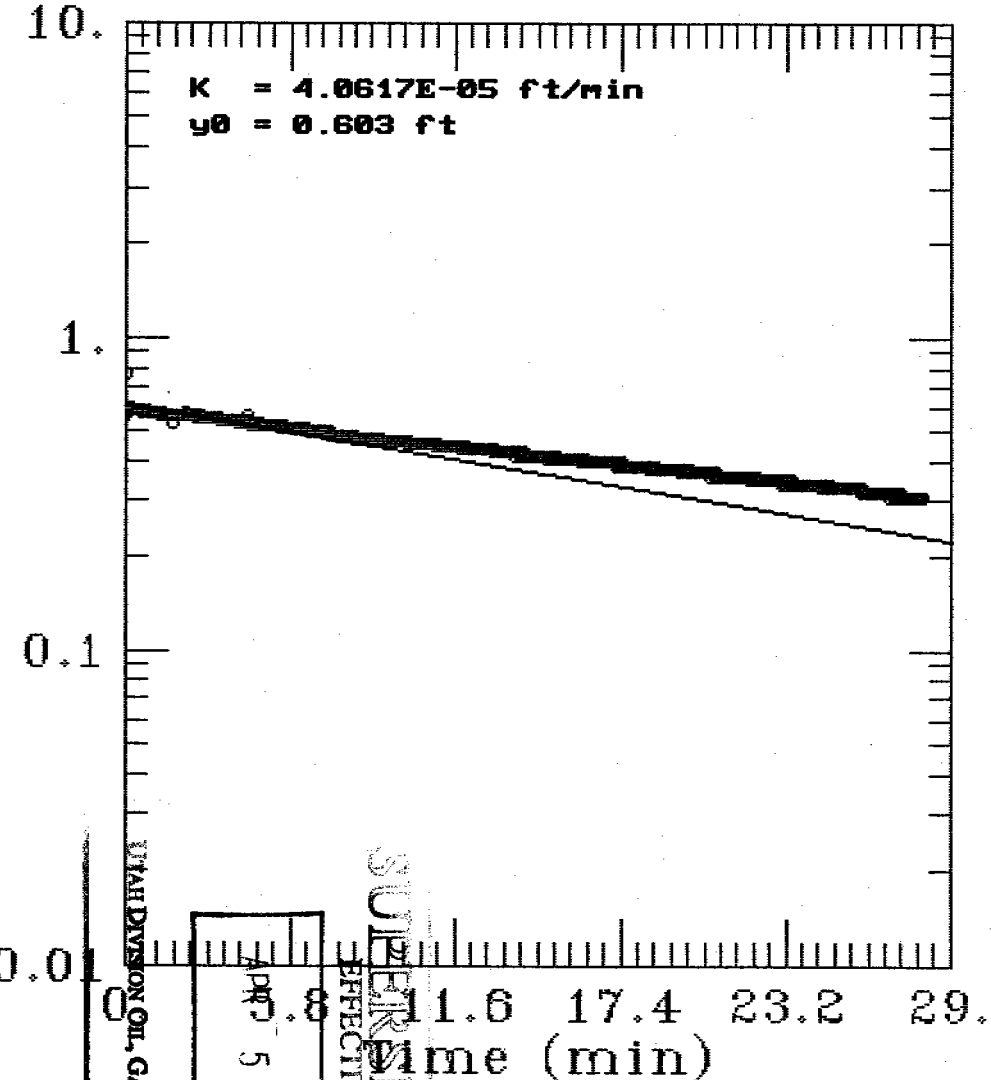
DH-3 SPRING CANYON SLUG INJECT. TEST #1



UNCORRECTED
EFFECTIVE:
JUN 15 1993
UTAH DIVISION OIL, GAS AND MINING

UTAH DIVISION OIL, GAS AND MINING
SUPERSEDED
EFFECTIVE:
APR 5 1995

A Q T E S O L V R E S U L T S
Version 1.10

05/12/92 02:15:19

TEST DESCRIPTION

Data set..... DH3STSL2.AQT
Data set title..... DH-3 STORRS SLUG INJECTION TEST #2

Knowns and Constants:
- No. of data points..... 2000
- Radius of well casing..... 0.1
- Radius of well..... 0.1
- Aquifer saturated thickness..... 127
- Well screen length..... 110
- Static height of water in well..... 127
- Log(Re/Rw)..... 6.05
- A, B, C..... 0.000, 0.000, 12.519

ANALYTICAL METHOD

Bouwer-Rice (Unconfined Aquifer Slug Test)

RESULTS FROM STATISTICAL CURVE MATCHING

SUPERSEDED
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UTAH DIVISION OIL, GAS AND MINING

STATISTICAL MATCH PARAMETER ESTIMATES

	Estimate		Std. Error
K =	5.9972E-006	+/-	3.7281E-008
y0 =	6.3024E-001	+/-	1.3504E-003

ANALYSIS OF MODEL RESIDUALS

residual = calculated - observed
weighted residual = residual * weight

Weighted Residual Statistics:
- Number of residuals..... 1996
- Number of estimated parameters.... 2
- Degrees of freedom..... 1994
- Residual mean..... -0.0002397
- Residual standard deviation..... 0.02511
- Residual variance..... 0.0006303

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Model Residuals:

Time	Observed	Calculated	Residual	Weight

0.2	0.74344	0.62749	0.11595	1
0.21667	0.54375	0.62726	-0.083514	1
0.23333	0.59917	0.62704	-0.027866	1
0.25	0.59367	0.62681	-0.033138	1
0.26667	0.54924	0.62658	-0.077341	1
0.28333	0.59917	0.62635	-0.027183	1
0.31667	0.59367	0.6259	-0.032228	1
0.33333	0.59367	0.62567	-0.032	1
0.35	0.59917	0.62544	-0.026273	1
0.36667	0.59367	0.62522	-0.031546	1
0.38333	0.59917	0.62499	-0.025818	1
0.4	0.59367	0.62476	-0.031091	1
0.41667	0.64359	0.62453	0.019056	1
0.43333	0.59367	0.62431	-0.030637	1
0.45	0.69352	0.62408	0.06944	1
0.46667	0.54375	0.62385	-0.080104	1
0.48333	0.54924	0.62363	-0.074387	1
0.5	0.59367	0.6234	-0.02973	1
0.51667	0.59367	0.62317	-0.029504	1
0.53333	0.59367	0.62295	-0.029277	1
0.55	0.59367	0.62272	-0.029051	1
0.56667	0.59917	0.62249	-0.023324	1
0.58333	0.59917	0.62227	-0.023098	1
0.6	0.59917	0.62204	-0.022872	1
0.61667	0.59367	0.62182	-0.028146	1
0.63333	0.59367	0.62159	-0.02792	1
0.65	0.59367	0.62136	-0.027694	1
0.66667	0.54924	0.62114	-0.071898	1
0.68333	0.59367	0.62091	-0.027243	1
0.7	0.59367	0.62069	-0.027017	1
0.71667	0.59367	0.62046	-0.026791	1
0.73333	0.59367	0.62024	-0.026566	1
0.75	0.59367	0.62001	-0.026341	1
0.76667	0.54924	0.61979	-0.070545	1
0.78333	0.59367	0.61956	-0.02589	1
0.8	0.59367	0.61933	-0.025665	1
0.81667	0.59367	0.61911	-0.02544	1
0.83333	0.59367	0.61888	-0.025215	1
0.85	0.54924	0.61866	-0.06942	1
0.86667	0.59367	0.61844	-0.024765	1
0.88333	0.59367	0.61821	-0.02454	1
0.9	0.59367	0.61799	-0.024316	1
0.91667	0.59367	0.61776	-0.024091	1
0.93333	0.59367	0.61754	-0.023867	1
0.95	0.59367	0.61731	-0.023642	1
0.96667	0.59367	0.61709	-0.023418	1
0.98333	0.54924	0.61686	-0.067623	1
1	0.59367	0.61664	-0.022969	1
1.0167	0.59367	0.61642	-0.022745	1
1.0333	0.59367	0.61619	-0.022521	1
1.05	0.59367	0.61597	-0.022297	1
1.0667	0.59367	0.61574	-0.022073	1
1.0833	0.59367	0.61552	-0.02185	1
1.1	0.59367	0.6153	-0.021626	1
1.1167	0.59367	0.61507	-0.021402	1
1.1333	0.59367	0.61485	-0.021179	1
1.15	0.59367	0.61463	-0.020955	1
1.1667	0.59367	0.6144	-0.020732	1

SUPERSEDED
EFFECTIVE:
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1.1833	0.59367	0.61418	-0.020509	1
1.2	0.59367	0.61396	-0.020286	1
1.2167	0.59367	0.61373	-0.020062	1
1.2333	0.54924	0.61351	-0.064269	1
1.25	0.59367	0.61329	-0.019616	1
1.2667	0.59367	0.61306	-0.019393	1
1.2833	0.59367	0.61284	-0.019171	1
1.3	0.54924	0.61262	-0.063378	1
1.3167	0.59367	0.6124	-0.018725	1
1.3333	0.54924	0.61217	-0.062933	1
1.35	0.59367	0.61195	-0.01828	1
1.3667	0.59367	0.61173	-0.018058	1
1.3833	0.59367	0.61151	-0.017836	1
1.4	0.59367	0.61128	-0.017613	1
1.4167	0.59367	0.61106	-0.017391	1
1.4333	0.59367	0.61084	-0.017169	1
1.45	0.59367	0.61062	-0.016947	1
1.4667	0.59367	0.6104	-0.016725	1
1.4833	0.59917	0.61017	-0.011004	1
1.5	0.55473	0.60995	-0.055222	1
1.5167	0.59367	0.60973	-0.01606	1
1.5333	0.59367	0.60951	-0.015839	1
1.55	0.59367	0.60929	-0.015617	1
1.5667	0.59917	0.60907	-0.0098955	1
1.5833	0.59367	0.60884	-0.015174	1
1.6	0.55473	0.60862	-0.053893	1
1.6167	0.59367	0.6084	-0.014732	1
1.6333	0.54924	0.60818	-0.058941	1
1.65	0.59367	0.60796	-0.01429	1
1.6667	0.59367	0.60774	-0.014069	1
1.6833	0.59367	0.60752	-0.013848	1
1.7	0.59367	0.6073	-0.013627	1
1.7167	0.59917	0.60708	-0.0079063	1
1.7333	0.59367	0.60686	-0.013186	1
1.75	0.59367	0.60664	-0.012965	1
1.7667	0.59367	0.60641	-0.012745	1
1.7833	0.59367	0.60619	-0.012524	1
1.8	0.59367	0.60597	-0.012304	1
1.8167	0.59367	0.60575	-0.012084	1
1.8333	0.59367	0.60553	-0.011864	1
1.85	0.59367	0.60531	-0.011644	1
1.8667	0.54924	0.60509	-0.055854	1
1.8833	0.59367	0.60487	-0.011204	1
1.9	0.59367	0.60465	-0.010984	1
1.9167	0.59367	0.60443	-0.010764	1
1.9333	0.59367	0.60421	-0.010545	1
1.95	0.59367	0.60399	-0.010325	1
1.9667	0.59367	0.60378	-0.010105	1
1.9833	0.59367	0.60356	-0.0098861	1
2	0.59367	0.60334	-0.0096667	1
2.0167	0.59917	0.60312	-0.0039474	1
2.0333	0.59367	0.6029	-0.0092283	1
2.05	0.54924	0.60268	-0.053439	1
2.0667	0.59367	0.60246	-0.0087901	1
2.0833	0.54924	0.60224	-0.053001	1
2.1	0.59367	0.60202	-0.0083523	1
2.1167	0.54924	0.6018	-0.052563	1
2.1333	0.54924	0.60158	-0.052345	1

UPDATED
EFFECTIVE:
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INCORPORATED
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2.15	0.54924	0.60137	-0.052126	1
2.1667	0.54924	0.60115	-0.051908	1
2.1833	0.59367	0.60093	-0.0072592	1
2.2	0.59367	0.60071	-0.0070408	1
2.2167	0.54924	0.60049	-0.051252	1
2.2333	0.59367	0.60027	-0.0066043	1
2.25	0.59367	0.60006	-0.0063861	1
2.2667	0.55473	0.59984	-0.045108	1
2.2833	0.54924	0.59962	-0.05038	1
2.3	0.59367	0.5994	-0.0057321	1
2.3167	0.59367	0.59918	-0.0055143	1
2.3333	0.59917	0.59897	0.0002034	1
2.35	0.59367	0.59875	-0.0050789	1
2.3667	0.59917	0.59853	0.00063875	1
2.3833	0.59367	0.59831	-0.0046438	1
2.4	0.59367	0.5981	-0.0044263	1
2.4167	0.59367	0.59788	-0.0042089	1
2.4333	0.54924	0.59766	-0.048422	1
2.45	0.59367	0.59744	-0.0037745	1
2.4667	0.59367	0.59723	-0.0035573	1
2.4833	0.59917	0.59701	0.0021596	1
2.5	0.59367	0.59679	-0.0031234	1
2.5167	0.59367	0.59658	-0.0029065	1
2.5333	0.59367	0.59636	-0.0026897	1
2.55	0.59367	0.59614	-0.002473	1
2.5667	0.59367	0.59593	-0.0022563	1
2.5833	0.59367	0.59571	-0.0020398	1
2.6	0.59367	0.59549	-0.0018233	1
2.6167	0.59367	0.59528	-0.0016068	1
2.6333	0.59367	0.59506	-0.0013906	1
2.65	0.59367	0.59484	-0.0011743	1
2.6667	0.59367	0.59463	-0.00095804	1
2.6833	0.59367	0.59441	-0.00074203	1
2.7	0.59367	0.5942	-0.00052597	1
2.7167	0.59367	0.59398	-0.00030999	1
2.7333	0.59367	0.59376	-9.4211E-005	1
2.75	0.59367	0.59355	0.00012162	1
2.7667	0.59367	0.59333	0.00033736	1
2.7833	0.59917	0.59312	0.0060529	1
2.8	0.59367	0.5929	0.00076849	1
2.8167	0.59367	0.59269	0.00098401	1
2.8333	0.59367	0.59247	0.0011993	1
2.85	0.59367	0.59226	0.0014147	1
2.8667	0.59367	0.59204	0.0016299	1
2.8833	0.59367	0.59182	0.001845	1
2.9	0.59367	0.59161	0.0020601	1
2.9167	0.59367	0.59139	0.0022752	1
2.9333	0.59367	0.59118	0.00249	1
2.95	0.59367	0.59097	0.0027049	1
2.9667	0.59367	0.59075	0.0029197	1
2.9833	0.59367	0.59054	0.0031339	1
3	0.59367	0.59032	0.003349	1
3.0167	0.59367	0.59011	0.0035639	1
3.0333	0.59367	0.58989	0.0037775	1
3.05	0.59367	0.58968	0.0039923	1
3.0667	0.59367	0.58946	0.0042067	1
3.0833	0.59367	0.58925	0.0044208	1
3.1	0.59367	0.58904	0.004635	1

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3.1167	0.59367	0.58882	0.0048491	1
3.1333	0.59367	0.58861	0.005063	1
3.15	0.59367	0.58839	0.0052769	1
3.1667	0.59367	0.58818	0.0054908	1
3.1833	0.59367	0.58797	0.0057045	1
3.2	0.59367	0.58775	0.0059182	1
3.2167	0.59367	0.58754	0.0061318	1
3.2333	0.59367	0.58732	0.0063453	1
3.25	0.59917	0.58711	0.012059	1
3.2667	0.59367	0.5869	0.0067722	1
3.2833	0.59367	0.58668	0.0069854	1
3.3	0.59367	0.58647	0.0071986	1
3.3167	0.59367	0.58626	0.0074118	1
3.3333	0.59367	0.58605	0.0076248	1
3.35	0.59367	0.58583	0.0078378	1
3.3667	0.59367	0.58562	0.0080507	1
3.3833	0.59367	0.58541	0.0082635	1
3.4	0.59367	0.58519	0.0084763	1
3.4167	0.59367	0.58498	0.008689	1
3.4333	0.59367	0.58477	0.0089015	1
3.45	0.59367	0.58456	0.009114	1
3.4667	0.59367	0.58434	0.0093265	1
3.4833	0.59917	0.58413	0.015039	1
3.5	0.59367	0.58392	0.0097511	1
3.5167	0.59367	0.58371	0.0099634	1
3.5333	0.59367	0.58349	0.010175	1
3.55	0.59367	0.58328	0.010387	1
3.5667	0.59367	0.58307	0.0106	1
3.5833	0.59367	0.58286	0.010811	1
3.6	0.59367	0.58265	0.011023	1
3.6167	0.59367	0.58244	0.011235	1
3.6333	0.59367	0.58222	0.011447	1
3.65	0.59367	0.58201	0.011658	1
3.6667	0.59367	0.5818	0.01187	1
3.6833	0.59367	0.58159	0.012081	1
3.7	0.59367	0.58138	0.012292	1
3.7167	0.59367	0.58117	0.012504	1
3.7333	0.59367	0.58096	0.012715	1
3.75	0.59367	0.58074	0.012926	1
3.7667	0.59367	0.58053	0.013137	1
3.7833	0.59367	0.58032	0.013348	1
3.8	0.59367	0.58011	0.013559	1
3.8167	0.59367	0.5799	0.01377	1
3.8333	0.59367	0.57969	0.013981	1
3.85	0.59367	0.57948	0.014191	1
3.8667	0.59367	0.57927	0.014402	1
3.8833	0.59367	0.57906	0.014612	1
3.9	0.59367	0.57885	0.014823	1
3.9167	0.59367	0.57864	0.015033	1
3.9333	0.59367	0.57843	0.015243	1
3.95	0.59367	0.57822	0.015454	1
3.9667	0.59367	0.57801	0.015664	1
3.9833	0.59367	0.5778	0.015874	1
4	0.59367	0.57759	0.016084	1
4.0167	0.59367	0.57738	0.016294	1
4.0333	0.59367	0.57717	0.016504	1
4.05	0.54375	0.57696	-0.033207	1
4.0667	0.59367	0.57675	0.016923	1

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4.0833	0.59367	0.57654	0.017133	1
4.1	0.59367	0.57633	0.017342	1
4.1167	0.54924	0.57612	-0.026878	1
4.1333	0.59367	0.57591	0.017761	1
4.15	0.54924	0.5757	-0.02646	1
4.1667	0.59367	0.57549	0.018179	1
4.1833	0.59367	0.57528	0.018389	1
4.2	0.59367	0.57507	0.018598	1
4.2167	0.59367	0.57486	0.018807	1
4.2333	0.59367	0.57465	0.019016	1
4.25	0.59367	0.57445	0.019224	1
4.2667	0.59367	0.57424	0.019433	1
4.2833	0.59367	0.57403	0.019642	1
4.3	0.59367	0.57382	0.01985	1
4.3167	0.59367	0.57361	0.020059	1
4.3333	0.59367	0.5734	0.020267	1
4.35	0.59367	0.57319	0.020476	1
4.3667	0.59367	0.57299	0.020684	1
4.3833	0.59367	0.57278	0.020892	1
4.4	0.59367	0.57257	0.021101	1
4.4167	0.59367	0.57236	0.021309	1
4.4333	0.59367	0.57215	0.021517	1
4.45	0.59367	0.57195	0.021725	1
4.4667	0.59367	0.57174	0.021932	1
4.4833	0.59367	0.57153	0.02214	1
4.5	0.59367	0.57132	0.022348	1
4.5167	0.59367	0.57111	0.022556	1
4.5333	0.59367	0.57091	0.022763	1
4.55	0.59367	0.5707	0.022971	1
4.5667	0.59367	0.57049	0.023178	1
4.5833	0.54375	0.57028	-0.026535	1
4.6	0.54375	0.57008	-0.026327	1
4.6167	0.54924	0.56987	-0.02063	1
4.6333	0.59367	0.56966	0.024007	1
4.65	0.59367	0.56946	0.024214	1
4.6667	0.59367	0.56925	0.024421	1
4.6833	0.59367	0.56904	0.024628	1
4.7	0.54375	0.56884	-0.025086	1
4.7167	0.59367	0.56863	0.025041	1
4.7333	0.54375	0.56842	-0.024672	1
4.75	0.54375	0.56822	-0.024466	1
4.7667	0.54924	0.56801	-0.018769	1
4.7833	0.54375	0.5678	-0.024053	1
4.8	0.54375	0.5676	-0.023846	1
4.8167	0.49931	0.56739	-0.06808	1
4.8333	0.54375	0.56718	-0.023434	1
4.85	0.59367	0.56698	0.026692	1
4.8667	0.59367	0.56677	0.026898	1
4.8833	0.54375	0.56657	-0.022816	1
4.9	0.54375	0.56636	-0.02261	1
4.9167	0.54375	0.56615	-0.022404	1
4.9333	0.54375	0.56595	-0.022198	1
4.95	0.54375	0.56574	-0.021993	1
4.9667	0.54375	0.56554	-0.021787	1
4.9833	0.54924	0.56533	-0.016092	1
5	0.54375	0.56513	-0.021376	1
5.0167	0.54375	0.56492	-0.021171	1
5.0333	0.54375	0.56472	-0.020965	1

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5.05	0.54375	0.56451	-0.02076	1
5.0667	0.54375	0.5643	-0.020555	1
5.0833	0.54375	0.5641	-0.02035	1
5.1	0.54375	0.56389	-0.020145	1
5.1167	0.54375	0.56369	-0.01994	1
5.1333	0.54375	0.56349	-0.019735	1
5.15	0.54375	0.56328	-0.01953	1
5.1667	0.54375	0.56308	-0.019326	1
5.1833	0.49931	0.56287	-0.063561	1
5.2	0.54375	0.56267	-0.018916	1
5.2167	0.54375	0.56246	-0.018712	1
5.2333	0.54375	0.56226	-0.018508	1
5.25	0.54375	0.56205	-0.018303	1
5.2667	0.54375	0.56185	-0.018099	1
5.2833	0.59367	0.56164	0.032025	1
5.3	0.54375	0.56144	-0.017691	1
5.3167	0.54375	0.56124	-0.017487	1
5.3333	0.49931	0.56103	-0.061723	1
5.35	0.54375	0.56083	-0.017079	1
5.3667	0.54375	0.56062	-0.016875	1
5.3833	0.54375	0.56042	-0.016671	1
5.4	0.54375	0.56022	-0.016468	1
5.4167	0.49931	0.56001	-0.060704	1
5.4333	0.54375	0.55981	-0.01606	1
5.45	0.54375	0.55961	-0.015857	1
5.4667	0.54375	0.5594	-0.015654	1
5.4833	0.54375	0.5592	-0.01545	1
5.5	0.54375	0.559	-0.015247	1
5.5167	0.54375	0.55879	-0.015044	1
5.5333	0.54375	0.55859	-0.014841	1
5.55	0.54375	0.55839	-0.014638	1
5.5667	0.54375	0.55818	-0.014435	1
5.5833	0.54375	0.55798	-0.014232	1
5.6	0.54375	0.55778	-0.014029	1
5.6167	0.49931	0.55758	-0.058267	1
5.6333	0.54375	0.55737	-0.013624	1
5.65	0.54375	0.55717	-0.013421	1
5.6667	0.54375	0.55697	-0.013219	1
5.6833	0.54375	0.55677	-0.013017	1
5.7	0.54375	0.55656	-0.012814	1
5.7167	0.49931	0.55636	-0.057052	1
5.7333	0.54375	0.55616	-0.01241	1
5.75	0.54924	0.55596	-0.0067176	1
5.7667	0.54375	0.55576	-0.012006	1
5.7833	0.54375	0.55555	-0.011804	1
5.8	0.54375	0.55535	-0.011602	1
5.8167	0.54375	0.55515	-0.0114	1
5.8333	0.54375	0.55495	-0.011198	1
5.85	0.54375	0.55475	-0.010996	1
5.8667	0.54375	0.55454	-0.010795	1
5.8833	0.54375	0.55434	-0.010593	1
5.9	0.54375	0.55414	-0.010392	1
5.9167	0.54375	0.55394	-0.01019	1
5.9333	0.49931	0.55374	-0.054429	1
5.95	0.54375	0.55354	-0.009788	1
5.9667	0.54375	0.55334	-0.0095868	1
5.9833	0.54375	0.55314	-0.0093857	1
6	0.54375	0.55293	-0.0091847	1

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6.0167	0.54375	0.55273	-0.0089837	1
6.0333	0.54375	0.55253	-0.0087829	1
6.05	0.49931	0.55233	-0.053022	1
6.0667	0.54375	0.55213	-0.0083813	1
6.0833	0.54375	0.55193	-0.0081807	1
6.1	0.54375	0.55173	-0.0079801	1
6.1167	0.54375	0.55153	-0.0077796	1
6.1333	0.54375	0.55133	-0.0075792	1
6.15	0.54375	0.55113	-0.0073788	1
6.1667	0.54375	0.55093	-0.0071785	1
6.1833	0.54375	0.55073	-0.0069783	1
6.2	0.54375	0.55053	-0.0067782	1
6.2167	0.54375	0.55033	-0.006578	1
6.2333	0.54375	0.55013	-0.0063781	1
6.25	0.54375	0.54993	-0.0061782	1
6.2667	0.49931	0.54973	-0.050418	1
6.2833	0.49931	0.54953	-0.050219	1
6.3	0.54375	0.54933	-0.0055788	1
6.3167	0.54375	0.54913	-0.0053792	1
6.3333	0.54375	0.54893	-0.0051797	1
6.35	0.54375	0.54873	-0.0049801	1
6.3667	0.54375	0.54853	-0.0047807	1
6.3833	0.54375	0.54833	-0.0045814	1
6.4	0.54375	0.54813	-0.0043821	1
6.4167	0.54375	0.54793	-0.0041829	1
6.4333	0.54375	0.54773	-0.0039838	1
6.45	0.54375	0.54753	-0.0037847	1
6.4667	0.54375	0.54734	-0.0035857	1
6.4833	0.54375	0.54714	-0.0033869	1
6.5	0.54375	0.54694	-0.003188	1
6.5167	0.54375	0.54674	-0.0029892	1
6.5333	0.54375	0.54654	-0.0027906	1
6.55	0.54375	0.54634	-0.0025919	1
6.5667	0.54375	0.54614	-0.0023933	1
6.5833	0.54375	0.54594	-0.0021949	1
6.6	0.54375	0.54575	-0.0019965	1
6.6167	0.54375	0.54555	-0.0017981	1
6.6333	0.54375	0.54535	-0.0015999	1
6.65	0.49931	0.54515	-0.045842	1
6.6667	0.54375	0.54495	-0.0012035	1
6.6833	0.54375	0.54476	-0.0010056	1
6.7	0.54375	0.54456	-0.00080757	1
6.7167	0.54375	0.54436	-0.00060963	1
6.7333	0.54375	0.54416	-0.00041188	1
6.75	0.54375	0.54396	-0.00021408	1
6.7667	0.54375	0.54377	-1.6358E-005	1
6.7833	0.54375	0.54357	0.00018171	1
6.8	0.54375	0.54337	0.00037876	1
6.8167	0.54375	0.54317	0.00057627	1
6.8333	0.54375	0.54298	0.00077358	1
6.85	0.54375	0.54278	0.00097095	1
6.8667	0.54375	0.54258	0.0011682	1
6.8833	0.54375	0.54238	0.0013653	1
6.9	0.54375	0.54219	0.0015625	1
6.9167	0.54375	0.54199	0.0017596	1
6.9333	0.54375	0.54179	0.0019565	1
6.95	0.54375	0.5416	0.0021534	1
6.9667	0.54375	0.5414	0.0023503	1

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6.9833	0.54375	0.5412	0.0025469	1
7	0.54375	0.54101	0.0027437	1
7.0167	0.54375	0.54081	0.0029403	1
7.0333	0.54375	0.54061	0.0031368	1
7.05	0.49931	0.54042	-0.041107	1
7.0667	0.54375	0.54022	0.0035297	1
7.0833	0.54375	0.54002	0.003726	1
7.1	0.54375	0.53983	0.0039222	1
7.1167	0.49931	0.53963	-0.040322	1
7.1333	0.54375	0.53944	0.0043145	1
7.15	0.54375	0.53924	0.0045106	1
7.1667	0.49931	0.53904	-0.039733	1
7.1833	0.54375	0.53885	0.0049024	1
7.2	0.54375	0.53865	0.0050983	1
7.2167	0.54375	0.53846	0.0052941	1
7.2333	0.54375	0.53826	0.0054897	1
7.25	0.54375	0.53806	0.0056853	1
7.2667	0.54375	0.53787	0.0058809	1
7.2833	0.54375	0.53767	0.0060763	1
7.3	0.54375	0.53748	0.0062717	1
7.3167	0.54375	0.53728	0.0064671	1
7.3333	0.54375	0.53709	0.0066623	1
7.35	0.54375	0.53689	0.0068575	1
7.3667	0.54375	0.5367	0.0070527	1
7.3833	0.54375	0.5365	0.0072476	1
7.4	0.49931	0.53631	-0.036997	1
7.4167	0.54375	0.53611	0.0076376	1
7.4333	0.54375	0.53592	0.0078323	1
7.45	0.49931	0.53572	-0.036413	1
7.4667	0.54375	0.53553	0.0082219	1
7.4833	0.54375	0.53533	0.0084164	1
7.5	0.54375	0.53514	0.008611	1
7.5167	0.54375	0.53494	0.0088055	1
7.5333	0.54375	0.53475	0.0089998	1
7.55	0.54375	0.53456	0.0091942	1
7.5667	0.54375	0.53436	0.0093885	1
7.5833	0.54375	0.53417	0.0095826	1
7.6	0.54375	0.53397	0.0097768	1
7.6167	0.54375	0.53378	0.0099709	1
7.6333	0.49931	0.53359	-0.034275	1
7.65	0.54375	0.53339	0.010359	1
7.6667	0.54375	0.5332	0.010553	1
7.6833	0.54375	0.533	0.010746	1
7.7	0.54375	0.53281	0.01094	1
7.7167	0.54375	0.53262	0.011134	1
7.7333	0.54375	0.53242	0.011327	1
7.75	0.54375	0.53223	0.011521	1
7.7667	0.54375	0.53204	0.011714	1
7.7833	0.54375	0.53184	0.011907	1
7.8	0.54375	0.53165	0.012101	1
7.8167	0.54375	0.53146	0.012294	1
7.8333	0.54375	0.53126	0.012487	1
7.85	0.54375	0.53107	0.01268	1
7.8667	0.54375	0.53088	0.012873	1
7.8833	0.54375	0.53068	0.013066	1
7.9	0.54375	0.53049	0.013259	1
7.9167	0.54375	0.5303	0.013452	1
7.9333	0.54375	0.53011	0.013644	1

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7.95	0.54375	0.52991	0.013837	1
7.9667	0.54375	0.52972	0.01403	1
7.9833	0.54375	0.52953	0.014222	1
8	0.54375	0.52934	0.014415	1
8.0167	0.49931	0.52914	-0.029833	1
8.0333	0.54375	0.52895	0.014799	1
8.05	0.54375	0.52876	0.014992	1
8.0667	0.54375	0.52857	0.015184	1
8.0833	0.54375	0.52837	0.015376	1
8.1	0.54375	0.52818	0.015568	1
8.1167	0.54375	0.52799	0.01576	1
8.1333	0.54375	0.5278	0.015952	1
8.15	0.49931	0.52761	-0.028297	1
8.1667	0.54375	0.52741	0.016335	1
8.1833	0.54375	0.52722	0.016527	1
8.2	0.49931	0.52703	-0.027722	1
8.2167	0.54375	0.52684	0.01691	1
8.2333	0.54375	0.52665	0.017101	1
8.25	0.54375	0.52646	0.017293	1
8.2667	0.54375	0.52627	0.017484	1
8.2833	0.54375	0.52607	0.017675	1
8.3	0.54375	0.52588	0.017867	1
8.3167	0.54375	0.52569	0.018058	1
8.3333	0.49931	0.5255	-0.026191	1
8.35	0.54375	0.52531	0.01844	1
8.3667	0.54375	0.52512	0.018631	1
8.3833	0.49931	0.52493	-0.025619	1
8.4	0.54375	0.52474	0.019012	1
8.4167	0.54375	0.52455	0.019203	1
8.4333	0.50479	0.52436	-0.019566	1
8.45	0.54375	0.52417	0.019584	1
8.4667	0.54375	0.52398	0.019775	1
8.4833	0.49931	0.52378	-0.024475	1
8.5	0.54375	0.52359	0.020155	1
8.5167	0.54375	0.5234	0.020346	1
8.5333	0.49931	0.52321	-0.023904	1
8.55	0.54375	0.52302	0.020726	1
8.5667	0.54375	0.52283	0.020916	1
8.5833	0.49931	0.52264	-0.023334	1
8.6	0.54375	0.52245	0.021296	1
8.6167	0.54375	0.52226	0.021486	1
8.6333	0.49931	0.52207	-0.022764	1
8.65	0.54375	0.52188	0.021865	1
8.6667	0.54375	0.52169	0.022055	1
8.6833	0.49931	0.52151	-0.022195	1
8.7	0.54375	0.52132	0.022434	1
8.7167	0.54375	0.52113	0.022624	1
8.7333	0.54375	0.52094	0.022813	1
8.75	0.54375	0.52075	0.023002	1
8.7667	0.54375	0.52056	0.023192	1
8.7833	0.54375	0.52037	0.023381	1
8.8	0.54375	0.52018	0.02357	1
8.8167	0.54375	0.51999	0.023759	1
8.8333	0.54375	0.5198	0.023948	1
8.85	0.49931	0.51961	-0.020303	1
8.8667	0.54375	0.51942	0.024326	1
8.8833	0.54375	0.51924	0.024514	1
8.9	0.54375	0.51905	0.024703	1

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8.9167	0.54375	0.51886	0.024892	1
8.9333	0.49931	0.51867	-0.01936	1
8.95	0.54375	0.51848	0.025269	1
8.9667	0.54375	0.51829	0.025457	1
8.9833	0.54375	0.5181	0.025646	1
9	0.54375	0.51792	0.025834	1
9.0167	0.49931	0.51773	-0.018418	1
9.0333	0.54375	0.51754	0.02621	1
9.05	0.54375	0.51735	0.026398	1
9.0667	0.54375	0.51716	0.026586	1
9.0833	0.54375	0.51698	0.026774	1
9.1	0.54375	0.51679	0.026962	1
9.1167	0.54375	0.5166	0.02715	1
9.1333	0.54375	0.51641	0.027338	1
9.15	0.54375	0.51622	0.027525	1
9.1667	0.54375	0.51604	0.027713	1
9.1833	0.54375	0.51585	0.027901	1
9.2	0.54375	0.51566	0.028088	1
9.2167	0.49931	0.51547	-0.016165	1
9.2333	0.54375	0.51529	0.028463	1
9.25	0.54375	0.5151	0.02865	1
9.2667	0.49931	0.51491	-0.015603	1
9.2833	0.54375	0.51473	0.029024	1
9.3	0.49383	0.51454	-0.020709	1
9.3167	0.49931	0.51435	-0.015042	1
9.3333	0.54375	0.51416	0.029585	1
9.35	0.49931	0.51398	-0.014668	1
9.3667	0.54375	0.51379	0.029959	1
9.3833	0.54375	0.5136	0.030146	1
9.4	0.49931	0.51342	-0.014108	1
9.4167	0.54375	0.51323	0.030519	1
9.4333	0.54375	0.51304	0.030705	1
9.45	0.54375	0.51286	0.030892	1
9.4667	0.49931	0.51267	-0.013362	1
9.4833	0.49931	0.51249	-0.013175	1
9.5	0.49931	0.5123	-0.012989	1
9.5167	0.54375	0.51211	0.031637	1
9.5333	0.49931	0.51193	-0.012617	1
9.55	0.54375	0.51174	0.032009	1
9.5667	0.54375	0.51155	0.032195	1
9.5833	0.49931	0.51137	-0.012059	1
9.6	0.54375	0.51118	0.032567	1
9.6167	0.54375	0.511	0.032753	1
9.6333	0.54375	0.51081	0.032938	1
9.65	0.49931	0.51063	-0.011316	1
9.6667	0.54375	0.51044	0.03331	1
9.6833	0.54375	0.51025	0.033495	1
9.7	0.44938	0.51007	-0.06069	1
9.7167	0.54375	0.50988	0.033866	1
9.7333	0.49383	0.5097	-0.015869	1
9.75	0.49931	0.50951	-0.010204	1
9.7667	0.49383	0.50933	-0.015498	1
9.7833	0.54375	0.50914	0.034607	1
9.8	0.49383	0.50896	-0.015128	1
9.8167	0.54375	0.50877	0.034977	1
9.8333	0.54375	0.50859	0.035161	1
9.85	0.49383	0.5084	-0.014574	1
9.8667	0.49383	0.50822	-0.014389	1

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9.8833	0.54375	0.50803	0.035716	1
9.9	0.49931	0.50785	-0.0085396	1
9.9167	0.49931	0.50766	-0.008355	1
9.9333	0.54375	0.50748	0.036269	1
9.95	0.49383	0.5073	-0.013466	1
9.9667	0.49383	0.50711	-0.013282	1
9.9833	0.49383	0.50693	-0.013097	1
10	0.49383	0.50674	-0.012913	1
10.017	0.54375	0.50656	0.037191	1
10.033	0.49383	0.50638	-0.012545	1
10.05	0.49383	0.50619	-0.012361	1
10.067	0.49383	0.50601	-0.012177	1
10.083	0.54375	0.50582	0.037927	1
10.1	0.54375	0.50564	0.038111	1
10.117	0.44938	0.50546	-0.056075	1
10.133	0.49383	0.50527	-0.011442	1
10.15	0.49383	0.50509	-0.011258	1
10.167	0.54375	0.5049	0.038846	1
10.183	0.49383	0.50472	-0.010892	1
10.2	0.49931	0.50454	-0.0052277	1
10.217	0.54375	0.50435	0.039396	1
10.233	0.49383	0.50417	-0.010341	1
10.25	0.54375	0.50399	0.039762	1
10.267	0.49383	0.5038	-0.0099743	1
10.283	0.54375	0.50362	0.040128	1
10.3	0.49383	0.50344	-0.0096086	1
10.317	0.44938	0.50326	-0.053875	1
10.333	0.49383	0.50307	-0.0092431	1
10.35	0.49383	0.50289	-0.0090599	1
10.367	0.49383	0.50271	-0.0088768	1
10.383	0.49383	0.50252	-0.0086948	1
10.4	0.44938	0.50234	-0.052962	1
10.417	0.49383	0.50216	-0.0083289	1
10.433	0.44938	0.50198	-0.052597	1
10.45	0.49383	0.50179	-0.0079643	1
10.467	0.49383	0.50161	-0.0077816	1
10.483	0.44938	0.50143	-0.05205	1
10.5	0.49383	0.50125	-0.0074175	1
10.517	0.44938	0.50106	-0.051685	1
10.533	0.54375	0.50088	0.042866	1
10.55	0.49383	0.5007	-0.0068712	1
10.567	0.49383	0.50052	-0.0066889	1
10.583	0.49383	0.50034	-0.0065077	1
10.6	0.44938	0.50016	-0.050775	1
10.617	0.49383	0.49997	-0.0061434	1
10.633	0.49383	0.49979	-0.0059624	1
10.65	0.54375	0.49961	0.04414	1
10.667	0.49383	0.49943	-0.0055985	1
10.683	0.44938	0.49925	-0.049868	1
10.7	0.49383	0.49907	-0.0052359	1
10.717	0.44938	0.49888	-0.049504	1
10.733	0.49383	0.4987	-0.0048736	1
10.75	0.49383	0.49852	-0.004692	1
10.767	0.49383	0.49834	-0.0045105	1
10.783	0.49383	0.49816	-0.0043301	1
10.8	0.49383	0.49798	-0.0041487	1
10.817	0.49383	0.4978	-0.0039673	1
10.833	0.49383	0.49762	-0.0037872	1

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10.85	0.49383	0.49744	-0.003606	1
10.867	0.49383	0.49725	-0.0034248	1
10.883	0.49383	0.49707	-0.0032448	1
10.9	0.49383	0.49689	-0.0030638	1
10.917	0.49383	0.49671	-0.0028829	1
10.933	0.49383	0.49653	-0.0027031	1
10.95	0.49383	0.49635	-0.0025223	1
10.967	0.44938	0.49617	-0.046792	1
10.983	0.49383	0.49599	-0.0021619	1
11	0.49383	0.49581	-0.0019813	1
11.017	0.49383	0.49563	-0.0018008	1
11.033	0.49383	0.49545	-0.0016214	1
11.05	0.49383	0.49527	-0.001441	1
11.067	0.49383	0.49509	-0.0012606	1
11.083	0.49383	0.49491	-0.0010814	1
11.1	0.49383	0.49473	-0.00090121	1
11.117	0.49383	0.49455	-0.00072105	1
11.133	0.49383	0.49437	-0.00054204	1
11.15	0.49383	0.49419	-0.00036202	1
11.167	0.49383	0.49401	-0.00018207	1
11.183	0.49383	0.49383	-3.2534E-006	1
11.2	0.44938	0.49365	-0.044273	1
11.217	0.49383	0.49347	0.00035633	1
11.233	0.49383	0.4933	0.00053495	1
11.25	0.49383	0.49312	0.00071458	1
11.267	0.49383	0.49294	0.00089414	1
11.283	0.44938	0.49276	-0.043377	1
11.3	0.49383	0.49258	0.001252	1
11.317	0.49383	0.4924	0.0014314	1
11.333	0.49383	0.49222	0.0016096	1
11.35	0.49383	0.49204	0.0017888	1
11.367	0.44938	0.49186	-0.042482	1
11.383	0.49383	0.49168	0.002146	1
11.4	0.44938	0.4915	-0.042125	1
11.417	0.44938	0.49133	-0.041946	1
11.433	0.49383	0.49115	0.0026819	1
11.45	0.49383	0.49097	0.0028608	1
11.467	0.49383	0.49079	0.0030395	1
11.483	0.44938	0.49061	-0.041233	1
11.5	0.49383	0.49043	0.0033958	1
11.517	0.49383	0.49026	0.0035744	1
11.533	0.49383	0.49008	0.0037519	1
11.55	0.44938	0.4899	-0.04052	1
11.567	0.44938	0.48972	-0.040341	1
11.583	0.49383	0.48954	0.004286	1
11.6	0.44938	0.48937	-0.039986	1
11.617	0.49383	0.48919	0.0046425	1
11.633	0.49383	0.48901	0.0048195	1
11.65	0.44938	0.48883	-0.039452	1
11.667	0.49383	0.48865	0.0051756	1
11.683	0.44938	0.48848	-0.039098	1
11.7	0.49383	0.4883	0.0055303	1
11.717	0.49383	0.48812	0.0057082	1
11.733	0.49383	0.48795	0.0058848	1
11.75	0.49383	0.48777	0.0060625	1
11.767	0.44938	0.48759	-0.03821	1
11.783	0.49383	0.48741	0.0064166	1
11.8	0.44938	0.48724	-0.037856	1

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11.817	0.49383	0.48706	0.0067715	1
11.833	0.49383	0.48688	0.0069478	1
11.85	0.49383	0.4867	0.0071251	1
11.867	0.49383	0.48653	0.0073024	1
11.883	0.49383	0.48635	0.0074785	1
11.9	0.49383	0.48617	0.0076556	1
11.917	0.44938	0.486	-0.036617	1
11.933	0.49383	0.48582	0.0080085	1
11.95	0.49383	0.48564	0.0081854	1
11.967	0.49383	0.48547	0.0083623	1
11.983	0.49383	0.48529	0.008538	1
12	0.49383	0.48512	0.0087147	1
12.017	0.49383	0.48494	0.0088913	1
12.033	0.44938	0.48476	-0.035383	1
12.05	0.49383	0.48459	0.0092434	1
12.067	0.49383	0.48441	0.0094199	1
12.083	0.44938	0.48423	-0.034855	1
12.1	0.49383	0.48406	0.0097715	1
12.117	0.44938	0.48388	-0.034502	1
12.133	0.49383	0.48371	0.010123	1
12.15	0.44938	0.48353	-0.034151	1
12.167	0.49383	0.48335	0.010475	1
12.183	0.49383	0.48318	0.01065	1
12.2	0.49383	0.483	0.010826	1
12.217	0.49383	0.48283	0.011002	1
12.233	0.49383	0.48265	0.011177	1
12.25	0.49383	0.48248	0.011352	1
12.267	0.44938	0.4823	-0.032922	1
12.283	0.49383	0.48213	0.011703	1
12.3	0.49383	0.48195	0.011878	1
12.317	0.49383	0.48178	0.012054	1
12.333	0.49383	0.4816	0.012228	1
12.35	0.49383	0.48143	0.012404	1
12.367	0.44938	0.48125	-0.031871	1
12.383	0.49383	0.48108	0.012753	1
12.4	0.49383	0.4809	0.012928	1
12.417	0.44938	0.48073	-0.031347	1
12.433	0.44938	0.48055	-0.031173	1
12.45	0.49383	0.48038	0.013452	1
12.467	0.49383	0.4802	0.013627	1
12.483	0.49383	0.48003	0.013801	1
12.5	0.44938	0.47985	-0.030474	1
12.517	0.49383	0.47968	0.014151	1
12.533	0.44938	0.47951	-0.030126	1
12.55	0.49383	0.47933	0.014499	1
12.567	0.49383	0.47916	0.014673	1
12.583	0.49383	0.47898	0.014847	1
12.6	0.49383	0.47881	0.015021	1
12.617	0.44938	0.47863	-0.029254	1
12.633	0.49383	0.47846	0.015369	1
12.65	0.44938	0.47829	-0.028907	1
12.667	0.49383	0.47811	0.015717	1
12.683	0.49383	0.47794	0.01589	1
12.7	0.49383	0.47777	0.016064	1
12.717	0.49383	0.47759	0.016238	1
12.733	0.44938	0.47742	-0.028039	1
12.75	0.49383	0.47724	0.016585	1
12.767	0.44938	0.47707	-0.027691	1

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12.783	0.49383	0.4769	0.016931	1
12.8	0.49383	0.47672	0.017105	1
12.817	0.49383	0.47655	0.017279	1
12.833	0.49383	0.47638	0.017451	1
12.85	0.44938	0.47621	-0.026825	1
12.867	0.49383	0.47603	0.017798	1
12.883	0.44938	0.47586	-0.02648	1
12.9	0.49383	0.47569	0.018144	1
12.917	0.49383	0.47551	0.018317	1
12.933	0.49383	0.47534	0.018489	1
12.95	0.49383	0.47517	0.018662	1
12.967	0.49383	0.47499	0.018835	1
12.983	0.49383	0.47482	0.019007	1
13	0.49383	0.47465	0.01918	1
13.017	0.49383	0.47448	0.019353	1
13.033	0.49383	0.47431	0.019525	1
13.05	0.49383	0.47413	0.019697	1
13.067	0.49383	0.47396	0.01987	1
13.083	0.44938	0.47379	-0.024409	1
13.1	0.49383	0.47362	0.020214	1
13.117	0.49383	0.47344	0.020386	1
13.133	0.49383	0.47327	0.020558	1
13.15	0.49383	0.4731	0.02073	1
13.167	0.44938	0.47293	-0.023548	1
13.183	0.49383	0.47276	0.021074	1
13.2	0.44938	0.47258	-0.023204	1
13.217	0.49383	0.47241	0.021418	1
13.233	0.49383	0.47224	0.021589	1
13.25	0.49383	0.47207	0.021761	1
13.267	0.49383	0.4719	0.021933	1
13.283	0.49383	0.47173	0.022104	1
13.3	0.49383	0.47155	0.022275	1
13.317	0.49383	0.47138	0.022447	1
13.333	0.49383	0.47121	0.022618	1
13.35	0.44938	0.47104	-0.021661	1
13.367	0.44938	0.47087	-0.021489	1
13.383	0.49383	0.4707	0.023131	1
13.4	0.49383	0.47053	0.023303	1
13.417	0.44938	0.47036	-0.020976	1
13.433	0.49383	0.47019	0.023644	1
13.45	0.44938	0.47001	-0.020635	1
13.467	0.49383	0.46984	0.023987	1
13.483	0.49383	0.46967	0.024157	1
13.5	0.49383	0.4695	0.024328	1
13.517	0.49383	0.46933	0.024499	1
13.533	0.49383	0.46916	0.024669	1
13.55	0.44938	0.46899	-0.019611	1
13.567	0.49383	0.46882	0.02501	1
13.583	0.49383	0.46865	0.02518	1
13.6	0.44938	0.46848	-0.0191	1
13.617	0.49383	0.46831	0.025521	1
13.633	0.49383	0.46814	0.025691	1
13.65	0.49383	0.46797	0.025861	1
13.667	0.44938	0.4678	-0.018419	1
13.683	0.49383	0.46763	0.026201	1
13.7	0.44938	0.46746	-0.018079	1
13.717	0.49383	0.46729	0.026541	1
13.733	0.49383	0.46712	0.02671	1

INCORPORATED
EFFECTIVE:
JUN 15 1993
UTAH DIVISION OIL, GAS AND MINING

13.75	0.49383	0.46695	0.026881	1
13.767	0.44938	0.46678	-0.017399	1
13.783	0.49383	0.46661	0.02722	1
13.8	0.49383	0.46644	0.027389	1
13.817	0.49383	0.46627	0.027559	1
13.833	0.44938	0.4661	-0.016722	1
13.85	0.49383	0.46593	0.027898	1
13.867	0.49383	0.46576	0.028067	1
13.883	0.49383	0.46559	0.028236	1
13.9	0.49383	0.46542	0.028406	1
13.917	0.49383	0.46525	0.028575	1
13.933	0.49383	0.46509	0.028743	1
13.95	0.49383	0.46492	0.028913	1
13.967	0.49383	0.46475	0.029082	1
13.983	0.49383	0.46458	0.02925	1
14	0.49383	0.46441	0.02942	1
14.017	0.49383	0.46424	0.029589	1
14.033	0.49383	0.46407	0.029757	1
14.05	0.49383	0.4639	0.029926	1
14.067	0.49383	0.46374	0.030095	1
14.083	0.49383	0.46357	0.030262	1
14.1	0.49383	0.4634	0.030431	1
14.117	0.49383	0.46323	0.0306	1
14.133	0.49383	0.46306	0.030768	1
14.15	0.49383	0.46289	0.030936	1
14.167	0.49383	0.46273	0.031105	1
14.183	0.49383	0.46256	0.031272	1
14.2	0.49383	0.46239	0.031441	1
14.217	0.49383	0.46222	0.031609	1
14.233	0.49383	0.46205	0.031776	1
14.25	0.49383	0.46189	0.031945	1
14.267	0.49383	0.46172	0.032113	1
14.283	0.49383	0.46155	0.03228	1
14.3	0.44938	0.46138	-0.012002	1
14.317	0.49383	0.46121	0.032616	1
14.333	0.44938	0.46105	-0.011667	1
14.35	0.49383	0.46088	0.032951	1
14.367	0.49383	0.46071	0.033119	1
14.383	0.49383	0.46054	0.033285	1
14.4	0.49383	0.46038	0.033453	1
14.417	0.49383	0.46021	0.033621	1
14.433	0.44938	0.46004	-0.010663	1
14.45	0.49383	0.45988	0.033955	1
14.467	0.49383	0.45971	0.034122	1
14.483	0.49383	0.45954	0.034289	1
14.5	0.49383	0.45937	0.034456	1
14.517	0.49383	0.45921	0.034623	1
14.533	0.49383	0.45904	0.034479	1
14.55	0.49383	0.45887	0.034957	1
14.567	0.49383	0.45871	0.035124	1
14.583	0.49383	0.45854	0.035529	1
14.6	0.49383	0.45837	0.035457	1
14.617	0.49383	0.45821	0.035624	1
14.633	0.49383	0.45804	0.035579	1
14.65	0.49383	0.45787	0.035956	1
14.667	0.49383	0.45771	0.036123	1
14.683	0.49383	0.45754	0.036289	1
14.7	0.49383	0.45737	0.036455	1

SUPERSEDED
EFFECTIVE:
UTAH DIVISION OIL, GAS AND MINING
INCORPORATED
EFFECTIVE:
JUN 15 1993
UTAH DIVISION OIL, GAS AND MINING

14.717	0.49383	0.45721	0.036622	1
14.733	0.49383	0.45704	0.036787	1
14.75	0.49383	0.45688	0.036954	1
14.767	0.49383	0.45671	0.03712	1
14.783	0.49383	0.45654	0.037286	1
14.8	0.49383	0.45638	0.037452	1
14.817	0.44938	0.45621	-0.006832	1
14.833	0.49383	0.45605	0.037783	1
14.85	0.49383	0.45588	0.037949	1
14.867	0.49383	0.45571	0.038115	1
14.883	0.49383	0.45555	0.03828	1
14.9	0.49383	0.45538	0.038446	1
14.917	0.49383	0.45522	0.038612	1
14.933	0.49383	0.45505	0.038777	1
14.95	0.49383	0.45489	0.038942	1
14.967	0.49383	0.45472	0.039108	1
14.983	0.49383	0.45456	0.039273	1
15	0.49383	0.45439	0.039438	1
15.017	0.49383	0.45423	0.039604	1
15.033	0.49383	0.45406	0.039768	1
15.05	0.49383	0.4539	0.039933	1
15.067	0.49383	0.45373	0.040099	1
15.083	0.4439	0.45357	-0.0096671	1
15.1	0.49383	0.4534	0.040428	1
15.117	0.49383	0.45324	0.040593	1
15.133	0.49383	0.45307	0.040757	1
15.15	0.49383	0.45291	0.040922	1
15.167	0.49383	0.45274	0.041087	1
15.183	0.49383	0.45258	0.041251	1
15.2	0.49383	0.45241	0.041416	1
15.217	0.49383	0.45225	0.041581	1
15.233	0.49383	0.45209	0.041744	1
15.25	0.49383	0.45192	0.041909	1
15.267	0.49383	0.45176	0.042073	1
15.283	0.49383	0.45159	0.042237	1
15.3	0.49383	0.45143	0.042401	1
15.317	0.4439	0.45126	-0.0073643	1
15.333	0.49383	0.4511	0.042729	1
15.35	0.49383	0.45094	0.042893	1
15.367	0.49383	0.45077	0.043058	1
15.383	0.49383	0.45061	0.043221	1
15.4	0.49383	0.45045	0.043385	1
15.417	0.49383	0.45028	0.043549	1
15.433	0.49383	0.45012	0.043712	1
15.45	0.49383	0.44995	0.043876	1
15.467	0.49383	0.44979	0.044[illegible]	1
15.483	0.4439	0.44963	-0.0057276	1
15.5	0.44938	0.44946	-8.3895E-005	1
15.517	0.49383	0.4493	0.04453	1
15.533	0.49383	0.44914	0.044692	1
15.55	0.49383	0.44897	0.044856	1
15.567	0.49383	0.44881	0.045019	1
15.583	0.4439	0.44865	-0.0047481	1
15.6	0.49383	0.44848	0.045345	1
15.617	0.49383	0.44832	0.045509	1
15.633	0.49383	0.44816	0.045671	1
15.65	0.4439	0.448	-0.004096	1
15.667	0.49383	0.44783	0.045997	1

INCORPORATED
EFFECTIVE:
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UTAH DIVISION OIL, GAS AND MINING

15.683	0.4439	0.44767	-0.0037707	1
15.7	0.49383	0.44751	0.046322	1
15.717	0.4439	0.44734	-0.0034447	1
15.733	0.49383	0.44718	0.046647	1
15.75	0.4439	0.44702	-0.00312	1
15.767	0.49383	0.44686	0.046973	1
15.783	0.4439	0.4467	-0.0027955	1
15.8	0.49383	0.44653	0.047297	1
15.817	0.4439	0.44637	-0.0024702	1
15.833	0.49383	0.44621	0.047621	1
15.85	0.49383	0.44605	0.047784	1
15.867	0.4439	0.44588	-0.0019837	1
15.883	0.4439	0.44572	-0.0018223	1
15.9	0.4439	0.44556	-0.00166	1
15.917	0.4439	0.4454	-0.0014978	1
15.933	0.4439	0.44524	-0.0013366	1
15.95	0.4439	0.44507	-0.0011744	1
15.967	0.4439	0.44491	-0.0010124	1
15.983	0.49383	0.44475	0.049079	1
16	0.4439	0.44459	-0.00068937	1
16.017	0.44938	0.44443	0.0049525	1
16.033	0.4439	0.44427	-0.00036661	1
16.05	0.49383	0.4441	0.049725	1
16.067	0.4439	0.44394	-4.3116E-005	1
16.083	0.4439	0.44378	0.00011757	1
16.1	0.4439	0.44362	0.00027917	1
16.117	0.39945	0.44346	-0.044009	1
16.133	0.4439	0.4433	0.00060123	1
16.15	0.4439	0.44314	0.00076265	1
16.167	0.4439	0.44298	0.00092402	1
16.183	0.4439	0.44282	0.0010844	1
16.2	0.4439	0.44265	0.0012456	1
16.217	0.4439	0.44249	0.0014068	1
16.233	0.4439	0.44233	0.001567	1
16.25	0.4439	0.44217	0.001728	1
16.267	0.4439	0.44201	0.001889	1
16.283	0.49383	0.44185	0.051979	1
16.3	0.4439	0.44169	0.0022099	1
16.317	0.4439	0.44153	0.0023708	1
16.333	0.4439	0.44137	0.0025306	1
16.35	0.4439	0.44121	0.0026913	1
16.367	0.4439	0.44105	0.002852	1
16.383	0.4439	0.44089	0.0030116	1
16.4	0.4439	0.44073	0.0031722	1
16.417	0.4439	0.44057	0.0033326	1
16.433	0.4439	0.44041	0.0034921	1
16.45	0.4439	0.44025	0.0036524	1
16.467	0.4439	0.44009	0.0038128	1
16.483	0.4439	0.43993	0.0039721	1
16.5	0.39945	0.43977	-0.040318	1
16.517	0.4439	0.43961	0.0042924	1
16.533	0.4439	0.43945	0.0044516	1
16.55	0.4439	0.43929	0.0046116	1
16.567	0.4439	0.43913	0.0047715	1
16.583	0.4439	0.43897	0.0049305	1
16.6	0.4439	0.43881	0.0050903	1
16.617	0.4439	0.43865	0.0052501	1
16.633	0.4439	0.43849	0.0054089	1

INCORPORATED
EFFECTIVE:
JUN 15 1993
UTAH DIVISION OIL, GAS AND MINING

16.65	0.4439	0.43833	0.0055686	1
16.667	0.4439	0.43817	0.0057282	1
16.683	0.4439	0.43801	0.0058868	1
16.7	0.4439	0.43785	0.0060463	1
16.717	0.39945	0.43769	-0.038244	1
16.733	0.4439	0.43754	0.0063642	1
16.75	0.4439	0.43738	0.0065235	1
16.767	0.4439	0.43722	0.0066827	1
16.783	0.4439	0.43706	0.006841	1
16.8	0.4439	0.4369	0.0070002	1
16.817	0.4439	0.43674	0.0071592	1
16.833	0.39945	0.43658	-0.037133	1
16.85	0.4439	0.43642	0.0074763	1
16.867	0.4439	0.43626	0.0076352	1
16.883	0.4439	0.43611	0.0077931	1
16.9	0.39945	0.43595	-0.036498	1
16.917	0.39945	0.43579	-0.036339	1
16.933	0.4439	0.43563	0.0082684	1
16.95	0.4439	0.43547	0.0084271	1
16.967	0.4439	0.43531	0.0085856	1
16.983	0.4439	0.43516	0.0087432	1
17	0.4439	0.435	0.0089017	1
17.017	0.4439	0.43484	0.0090601	1
17.033	0.4439	0.43468	0.0092175	1
17.05	0.4439	0.43452	0.0093757	1
17.067	0.4439	0.43437	0.009534	1
17.083	0.4439	0.43421	0.0096912	1
17.1	0.4439	0.43405	0.0098493	1
17.117	0.4439	0.43389	0.010007	1
17.133	0.4439	0.43374	0.010164	1
17.15	0.4439	0.43358	0.010322	1
17.167	0.4439	0.43342	0.01048	1
17.183	0.4439	0.43326	0.010637	1
17.2	0.4439	0.43311	0.010795	1
17.217	0.4439	0.43295	0.010953	1
17.233	0.4439	0.43279	0.011109	1
17.25	0.4439	0.43263	0.011267	1
17.267	0.4439	0.43248	0.011424	1
17.283	0.4439	0.43232	0.011581	1
17.3	0.4439	0.43216	0.011738	1
17.317	0.4439	0.432	0.011896	1
17.333	0.4439	0.43185	0.012052	1
17.35	0.4439	0.43169	0.012209	1
17.367	0.4439	0.43153	0.012367	1
17.383	0.4439	0.43138	0.012523	1
17.4	0.44938	0.43122	0.01816	1
17.417	0.4439	0.43106	0.012[illegible]	1
17.433	0.4439	0.43091	0.012993	1
17.45	0.39945	0.43075	-0.0313	1
17.467	0.4439	0.43059	0.013307	1
17.483	0.4439	0.43044	0.013463	1
17.5	0.4439	0.43028	0.013619	1
17.517	0.39945	0.43012	-0.030674	1
17.533	0.4439	0.42997	0.013932	1
17.55	0.4439	0.42981	0.014088	1
17.567	0.4439	0.42966	0.014245	1
17.583	0.4439	0.4295	0.0144	1
17.6	0.4439	0.42934	0.014557	1

SUPERSEDED
EFFECTIVE:
DIVISION OF OIL, GAS AND MINING
INCORPORATED
EFFECTIVE:
JUN 15 1993
UTAH DIVISION OIL, GAS AND MINING

17.617	0.4439	0.42919	0.014713	1
17.633	0.39945	0.42903	-0.029582	1
17.65	0.4439	0.42888	0.015025	1
17.667	0.39945	0.42872	-0.029269	1
17.683	0.4439	0.42856	0.015336	1
17.7	0.4439	0.42841	0.015492	1
17.717	0.4439	0.42825	0.015648	1
17.733	0.4439	0.4281	0.015803	1
17.75	0.39945	0.42794	-0.028491	1
17.767	0.4439	0.42779	0.016115	1
17.783	0.4439	0.42763	0.01627	1
17.8	0.4439	0.42747	0.016425	1
17.817	0.4439	0.42732	0.016581	1
17.833	0.4439	0.42716	0.016736	1
17.85	0.4439	0.42701	0.016891	1
17.867	0.4439	0.42685	0.017047	1
17.883	0.4439	0.4267	0.017201	1
17.9	0.4439	0.42654	0.017357	1
17.917	0.4439	0.42639	0.017512	1
17.933	0.4439	0.42623	0.017666	1
17.95	0.4439	0.42608	0.017821	1
17.967	0.4439	0.42592	0.017977	1
17.983	0.4439	0.42577	0.018131	1
18	0.39945	0.42561	-0.026164	1
18.017	0.4439	0.42546	0.018441	1
18.033	0.4439	0.42531	0.018595	1
18.05	0.4439	0.42515	0.01875	1
18.067	0.4439	0.425	0.018904	1
18.083	0.4439	0.42484	0.019058	1
18.1	0.4439	0.42469	0.019213	1
18.117	0.4439	0.42453	0.019368	1
18.133	0.4439	0.42438	0.019521	1
18.15	0.4439	0.42422	0.01967[illegible]	1
18.167	0.4439	0.42407	0.01985	1
18.183	0.4439	0.42392	0.019984	1
18.2	0.4439	0.42376	0.020138	1
18.217	0.39945	0.42361	-0.024158	1
18.233	0.4439	0.42345	0.020446	1
18.25	0.39945	0.4233	-0.02385	1
18.267	0.4439	0.42315	0.020754	1
18.283	0.4439	0.42299	0.020907	1
18.3	0.4439	0.42284	0.021061	1
18.317	0.4439	0.42268	0.021215	1
18.333	0.4439	0.42253	0.021368	1
18.35	0.4439	0.42238	0.021522	1
18.367	0.4439	0.42222	0.021676	1
18.383	0.4439	0.42207	0.021[illegible]	1
18.4	0.4439	0.42192	0.021983	1
18.417	0.4439	0.42176	0.022136	1
18.433	0.4439	0.42161	0.022289	1
18.45	0.4439	0.42146	0.022442	1
18.467	0.4439	0.4213	0.022596	1
18.483	0.4439	0.42115	0.022748	1
18.5	0.4439	0.421	0.022902	1
18.517	0.4439	0.42085	0.023055	1
18.533	0.4439	0.42069	0.023207	1
18.55	0.4439	0.42054	0.02336	1
18.567	0.4439	0.42039	0.023514	1

SUPERSEDED
EFFECTIVE:
APR 5 1995
UTAH DIVISION OIL, GAS AND MINING

INCORPORATED
EFFECTIVE:
JUN 15 1993
UTAH DIVISION OIL, GAS AND MINING

18.583	0.4439	0.42023	0.023666	1
18.6	0.4439	0.42008	0.023819	1
18.617	0.4439	0.41993	0.023972	1
18.633	0.4439	0.41978	0.024124	1
18.65	0.4439	0.41962	0.024277	1
18.667	0.4439	0.41947	0.024429	1
18.683	0.4439	0.41932	0.024581	1
18.7	0.4439	0.41917	0.024734	1
18.717	0.4439	0.41901	0.024887	1
18.733	0.4439	0.41886	0.025038	1
18.75	0.4439	0.41871	0.025191	1
18.767	0.4439	0.41856	0.025343	1
18.783	0.4439	0.41841	0.025495	1
18.8	0.4439	0.41825	0.025647	1
18.817	0.4439	0.4181	0.025799	1
18.833	0.4439	0.41795	0.025951	1
18.85	0.4439	0.4178	0.026103	1
18.867	0.39945	0.41764	-0.018195	1
18.883	0.4439	0.41749	0.026406	1
18.9	0.4439	0.41734	0.026558	1
18.917	0.4439	0.41719	0.02671	1
18.933	0.4439	0.41704	0.026861	1
18.95	0.4439	0.41689	0.027013	1
18.967	0.4439	0.41674	0.027165	1
18.983	0.4439	0.41658	0.027316	1
19	0.4439	0.41643	0.027467	1
19.017	0.39945	0.41628	-0.016831	1
19.033	0.39945	0.41613	-0.01668	1
19.05	0.4439	0.41598	0.027921	1
19.067	0.39945	0.41583	-0.016377	1
19.083	0.4439	0.41568	0.028223	1
19.1	0.39945	0.41553	-0.016075	1
19.117	0.4439	0.41537	0.028526	1
19.133	0.4439	0.41522	0.028676	1
19.15	0.4439	0.41507	0.028828	1
19.167	0.4439	0.41492	0.028979	1
19.183	0.4439	0.41477	0.029129	1
19.2	0.39945	0.41462	-0.01517	1
19.217	0.4439	0.41447	0.029431	1
19.233	0.4439	0.41432	0.029581	1
19.25	0.39945	0.41417	-0.014718	1
19.267	0.4439	0.41402	0.029883	1
19.283	0.4439	0.41387	0.030032	1
19.3	0.4439	0.41372	0.030183	1
19.317	0.4439	0.41357	0.030334	1
19.333	0.4439	0.41342	0.030484	1
19.35	0.4439	0.41327	0.030634	1
19.367	0.4439	0.41312	0.030785	1
19.383	0.4439	0.41297	0.030934	1
19.4	0.4439	0.41282	0.031084	1
19.417	0.4439	0.41267	0.031235	1
19.433	0.4439	0.41252	0.031384	1
19.45	0.4439	0.41237	0.031534	1
19.467	0.4439	0.41222	0.031685	1
19.483	0.4439	0.41207	0.031834	1
19.5	0.4439	0.41192	0.031984	1
19.517	0.4439	0.41177	0.032134	1
19.533	0.4439	0.41162	0.032283	1

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19.55	0.4439	0.41147	0.032433	1
19.567	0.4439	0.41132	0.032583	1
19.583	0.4439	0.41117	0.032731	1
19.6	0.4439	0.41102	0.032881	1
19.617	0.4439	0.41087	0.033031	1
19.633	0.4439	0.41072	0.03318	1
19.65	0.4439	0.41057	0.033329	1
19.667	0.4439	0.41042	0.033479	1
19.683	0.4439	0.41027	0.033627	1
19.7	0.4439	0.41012	0.033777	1
19.717	0.4439	0.40997	0.033926	1
19.733	0.4439	0.40983	0.034074	1
19.75	0.4439	0.40968	0.034224	1
19.767	0.4439	0.40953	0.034373	1
19.783	0.4439	0.40938	0.034521	1
19.8	0.4439	0.40923	0.03467	1
19.817	0.4439	0.40908	0.034819	1
19.833	0.4439	0.40893	0.034967	1
19.85	0.4439	0.40878	0.035116	1
19.867	0.4439	0.40864	0.035265	1
19.883	0.4439	0.40849	0.035413	1
19.9	0.4439	0.40834	0.035562	1
19.917	0.4439	0.40819	0.03571	1
19.933	0.39398	0.40804	-0.014062	1
19.95	0.39945	0.40789	-0.0084435	1
19.967	0.4439	0.40774	0.036155	1
19.983	0.4439	0.4076	0.036303	1
20	0.4439	0.40745	0.036451	1
20.017	0.4439	0.4073	0.036599	1
20.033	0.4439	0.40715	0.036747	1
20.05	0.39945	0.407	-0.0075549	1
20.067	0.4439	0.40686	0.037043	1
20.083	0.4439	0.40671	0.037191	1
20.1	0.4439	0.40656	0.037339	1
20.117	0.4439	0.40641	0.037487	1
20.133	0.4439	0.40627	0.037634	1
20.15	0.39945	0.40612	-0.0066682	1
20.167	0.39945	0.40597	-0.0065203	1
20.183	0.39945	0.40582	-0.0063734	1
20.2	0.4439	0.40568	0.038224	1
20.217	0.39945	0.40553	-0.0060779	1
20.233	0.4439	0.40538	0.038519	1
20.25	0.4439	0.40523	0.038667	1
20.267	0.4439	0.40509	0.038814	1
20.283	0.39945	0.40494	-0.0054893	1
20.3	0.4439	0.40479	0.039108	1
20.317	0.39945	0.40464	-0.0051944	1
20.333	0.4439	0.4045	0.039402	1
20.35	0.39945	0.40435	-0.0049007	1
20.367	0.39398	0.4042	-0.010223	1
20.383	0.39945	0.40406	-0.0046071	1
20.4	0.39398	0.40391	-0.00993	1
20.417	0.39945	0.40376	-0.0043129	1
20.433	0.4439	0.40362	0.040283	1
20.45	0.4439	0.40347	0.040430	1
20.467	0.4439	0.40332	0.040577	1
20.483	0.39945	0.40318	-0.0037269	1
20.5	0.4439	0.40303	0.04087	1

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20.517	0.39945	0.40288	-0.0034333	1
20.533	0.4439	0.40274	0.041163	1
20.55	0.39945	0.40259	-0.0031408	1
20.567	0.39398	0.40244	-0.0084642	1
20.583	0.39945	0.4023	-0.0028485	1
20.6	0.39398	0.40215	-0.008172	1
20.617	0.34951	0.40201	-0.052496	1
20.633	0.39398	0.40186	-0.0078801	1
20.65	0.39945	0.40171	-0.0022638	1
20.667	0.4439	0.40157	0.042333	1
20.683	0.34951	0.40142	-0.051912	1
20.7	0.4439	0.40128	0.042624	1
20.717	0.39398	0.40113	-0.0071498	1
20.733	0.39398	0.40098	-0.0070046	1
20.75	0.4439	0.40084	0.043061	1
20.767	0.39398	0.40069	-0.0067127	1
20.783	0.39398	0.40055	-0.0065676	1
20.8	0.39398	0.4004	-0.0064218	1
20.817	0.4439	0.40026	0.043644	1
20.833	0.39398	0.40011	-0.0061311	1
20.85	0.39398	0.39997	-0.0059854	1
20.867	0.39398	0.39982	-0.0058397	1
20.883	0.39398	0.39968	-0.005695	1
20.9	0.39398	0.39953	-0.0055495	1
20.917	0.4439	0.39938	0.044516	1
20.933	0.39398	0.39924	-0.0052594	1
20.95	0.4439	0.39909	0.044806	1
20.967	0.39398	0.39895	-0.0049687	1
20.983	0.39398	0.3988	-0.0048243	1
21	0.39398	0.39866	-0.0046791	1
21.017	0.39398	0.39851	-0.0045339	1
21.033	0.39398	0.39837	-0.0043897	1
21.05	0.39398	0.39822	-0.0042446	1
21.067	0.39398	0.39808	-0.0040996	1
21.083	0.34951	0.39794	-0.048426	1
21.1	0.39398	0.39779	-0.0038106	1
21.117	0.39398	0.39765	-0.0036658	1
21.133	0.39398	0.3975	-0.0035218	1
21.15	0.39398	0.39736	-0.0033771	1
21.167	0.39398	0.39721	-0.0032324	1
21.183	0.4439	0.39707	0.046831	1
21.2	0.39398	0.39692	-0.002944	1
21.217	0.39398	0.39678	-0.0027995	1
21.233	0.39398	0.39664	-0.0026559	1
21.25	0.39398	0.39649	-0.0025114	1
21.267	0.39398	0.39635	-0.0023679	1
21.283	0.39398	0.3962	-0.0022236	1
21.3	0.39398	0.39606	-0.0020793	1
21.317	0.39398	0.39592	-0.0019351	1
21.333	0.39398	0.39577	-0.0017918	1
21.35	0.39398	0.39563	-0.0016477	1
21.367	0.39398	0.39548	-0.0015036	1
21.383	0.39398	0.39534	-0.0013605	1
21.4	0.39398	0.3952	-0.0012164	1
21.417	0.39398	0.39505	-0.0010726	1
21.433	0.39398	0.39491	-0.00092961	1
21.45	0.39398	0.39477	-0.00078581	1
21.467	0.39398	0.39462	-0.00064206	1

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21.483	0.39398	0.39448	-0.00049922	1
21.5	0.39398	0.39434	-0.00035557	1
21.517	0.39398	0.39419	-0.00021198	1
21.533	0.39398	0.39405	-6.9296E-005	1
21.55	0.39398	0.39391	7.4194E-005	1
21.567	0.39398	0.39376	0.00021763	1
21.583	0.39398	0.39362	0.00036016	1
21.6	0.39398	0.39348	0.00050349	1
21.617	0.39398	0.39333	0.00064677	1
21.633	0.39398	0.39319	0.00078914	1
21.65	0.39398	0.39305	0.00093232	1
21.667	0.39398	0.3929	0.0010754	1
21.683	0.39398	0.39276	0.0012177	1
21.7	0.39398	0.39262	0.0013607	1
21.717	0.39398	0.39248	0.0015037	1
21.733	0.39398	0.39233	0.0016457	1
21.75	0.39398	0.39219	0.0017886	1
21.767	0.39398	0.39205	0.0019314	1
21.783	0.39398	0.39191	0.0020733	1
21.8	0.39398	0.39176	0.002216	1
21.817	0.39398	0.39162	0.0023587	1
21.833	0.39398	0.39148	0.0025004	1
21.85	0.39398	0.39134	0.002643	1
21.867	0.39398	0.39119	0.0027855	1
21.883	0.39398	0.39105	0.0029271	1
21.9	0.39398	0.39091	0.0030695	1
21.917	0.39398	0.39077	0.0032118	1
21.933	0.39398	0.39063	0.0033533	1
21.95	0.34951	0.39048	-0.040974	1
21.967	0.39398	0.39034	0.0036377	1
21.983	0.39398	0.3902	0.003779	1
22	0.34951	0.39006	-0.040549	1
22.017	0.39398	0.38992	0.0040631	1
22.033	0.39398	0.38978	0.0042042	1
22.05	0.39398	0.38963	0.0043462	1
22.067	0.39398	0.38949	0.0044881	1
22.083	0.39398	0.38935	0.004629	1
22.1	0.39398	0.38921	0.0047708	1
22.117	0.39398	0.38907	0.0049126	1
22.133	0.39398	0.38893	0.0050534	1
22.15	0.39398	0.38878	0.005195	1
22.167	0.39398	0.38864	0.0053366	1
22.183	0.39398	0.3885	0.0054773	1
22.2	0.34951	0.38836	-0.038851	1
22.217	0.39398	0.38822	0.0057601	1
22.233	0.39398	0.38808	0.0059007	1
22.25	0.34951	0.38794	-0.038428	1
22.267	0.39398	0.3878	0.0061832	1
22.283	0.39398	0.38766	0.0063236	1
22.3	0.39398	0.38752	0.0064648	1
22.317	0.39398	0.38737	0.0066059	1
22.333	0.39398	0.38723	0.0067461	1
22.35	0.39398	0.38709	0.0068871	1
22.367	0.39398	0.38695	0.0070281	1
22.383	0.39398	0.38681	0.0071681	1
22.4	0.39398	0.38667	0.007309	1
22.417	0.39398	0.38653	0.0074498	1
22.433	0.34951	0.38639	-0.03688	1

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22.45	0.39398	0.38625	0.0077304	1
22.467	0.39398	0.38611	0.007871	1
22.483	0.39398	0.38597	0.0080108	1
22.5	0.34951	0.38583	-0.036319	1
22.517	0.39398	0.38569	0.0082918	1
22.533	0.39398	0.38555	0.0084314	1
22.55	0.39398	0.38541	0.0085718	1
22.567	0.39398	0.38527	0.0087122	1
22.583	0.39398	0.38513	0.0088516	1
22.6	0.34951	0.38499	-0.035478	1
22.617	0.34951	0.38485	-0.035338	1
22.633	0.39398	0.38471	0.0092714	1
22.65	0.39398	0.38457	0.0094115	1
22.667	0.39398	0.38443	0.0095515	1
22.683	0.39398	0.38429	0.0096906	1
22.7	0.39398	0.38415	0.0098306	1
22.717	0.39398	0.38401	0.0099705	1
22.733	0.39398	0.38387	0.010109	1
22.75	0.39398	0.38373	0.010249	1
22.767	0.39398	0.38359	0.010389	1
22.783	0.39398	0.38345	0.010528	1
22.8	0.39398	0.38331	0.010667	1
22.817	0.39398	0.38317	0.010807	1
22.833	0.39398	0.38303	0.010946	1
22.85	0.39398	0.38289	0.011085	1
22.867	0.39398	0.38276	0.011225	1
22.883	0.39398	0.38262	0.011363	1
22.9	0.39398	0.38248	0.011503	1
22.917	0.39398	0.38234	0.011642	1
22.933	0.39398	0.3822	0.01178	1
22.95	0.39398	0.38206	0.011919	1
22.967	0.34951	0.38192	-0.032412	1
22.983	0.39398	0.38178	0.012197	1
23	0.34951	0.38164	-0.032134	1
23.017	0.34951	0.38151	-0.031995	1
23.033	0.39398	0.38137	0.012613	1
23.05	0.34951	0.38123	-0.031718	1
23.067	0.39398	0.38109	0.01289	1
23.083	0.39398	0.38095	0.013028	1
23.1	0.39398	0.38081	0.013167	1
23.117	0.39398	0.38067	0.013306	1
23.133	0.39398	0.38054	0.013444	1
23.15	0.39398	0.3804	0.013582	1
23.167	0.39398	0.38026	0.013721	1
23.183	0.39398	0.38012	0.013858	1
23.2	0.39398	0.37998	0.013997	1
23.217	0.39398	0.37984	0.014135	1
23.233	0.39398	0.37971	0.014273	1
23.25	0.39398	0.37957	0.014411	1
23.267	0.39398	0.37943	0.014549	1
23.283	0.39398	0.37929	0.014686	1
23.3	0.39398	0.37916	0.014825	1
23.317	0.39398	0.37902	0.014963	1
23.333	0.39398	0.37888	0.0151	1
23.35	0.39398	0.37874	0.015238	1
23.367	0.39398	0.3786	0.015376	1
23.383	0.39398	0.37847	0.015513	1
23.4	0.39398	0.37833	0.015651	1

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23.417	0.39398	0.37819	0.015788	1
23.433	0.39398	0.37805	0.015925	1
23.45	0.39398	0.37792	0.016063	1
23.467	0.39398	0.37778	0.0162	1
23.483	0.39398	0.37764	0.016337	1
23.5	0.39398	0.37751	0.016475	1
23.517	0.39398	0.37737	0.016612	1
23.533	0.39398	0.37723	0.016749	1
23.55	0.39398	0.37709	0.016886	1
23.567	0.39398	0.37696	0.017023	1
23.583	0.39398	0.37682	0.01716	1
23.6	0.39398	0.37668	0.017297	1
23.617	0.39398	0.37655	0.017434	1
23.633	0.39398	0.37641	0.017571	1
23.65	0.39398	0.37627	0.017708	1
23.667	0.39398	0.37614	0.017845	1
23.683	0.39398	0.376	0.017981	1
23.7	0.39398	0.37586	0.018118	1
23.717	0.39398	0.37573	0.018255	1
23.733	0.39398	0.37559	0.018391	1
23.75	0.39398	0.37545	0.018527	1
23.767	0.39398	0.37532	0.018664	1
23.783	0.39398	0.37518	0.0188	1
23.8	0.39398	0.37504	0.018937	1
23.817	0.39398	0.37491	0.019073	1
23.833	0.39398	0.37477	0.019209	1
23.85	0.39398	0.37463	0.019345	1
23.867	0.39398	0.3745	0.019482	1
23.883	0.39398	0.37436	0.019617	1
23.9	0.39398	0.37423	0.019754	1
23.917	0.39398	0.37409	0.01989	1
23.933	0.34406	0.37395	-0.029895	1
23.95	0.39398	0.37382	0.020161	1
23.967	0.39398	0.37368	0.020298	1
23.983	0.39945	0.37355	0.025903	1
24	0.39398	0.37341	0.020569	1
24.017	0.39398	0.37328	0.020705	1
24.033	0.39398	0.37314	0.02084	1
24.05	0.39398	0.373	0.020976	1
24.067	0.39398	0.37287	0.021112	1
24.083	0.39398	0.37273	0.021247	1
24.1	0.39398	0.3726	0.021382	1
24.117	0.39398	0.37246	0.021518	1
24.133	0.39398	0.37233	0.021653	1
24.15	0.39398	0.37219	0.021788	1
24.167	0.39398	0.37206	0.021924	1
24.183	0.39398	0.37192	0.022059	1
24.2	0.39398	0.37179	0.022194	1
24.217	0.39398	0.37165	0.022329	1
24.233	0.34951	0.37152	-0.022006	1
24.25	0.39398	0.37138	0.022599	1
24.267	0.39398	0.37125	0.022734	1
24.283	0.39398	0.37111	0.022869	1
24.3	0.39398	0.37098	0.023004	1
24.317	0.39398	0.37084	0.023139	1
24.333	0.39398	0.37071	0.023273	1
24.35	0.39398	0.37057	0.023408	1
24.367	0.39398	0.37044	0.023543	1

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24.383	0.39398	0.3703	0.023677	1
24.4	0.34951	0.37017	-0.020658	1
24.417	0.39398	0.37003	0.023947	1
24.433	0.39398	0.3699	0.024081	1
24.45	0.39398	0.36976	0.024216	1
24.467	0.39398	0.36963	0.02435	1
24.483	0.39398	0.3695	0.024484	1
24.5	0.39398	0.36936	0.024619	1
24.517	0.39398	0.36923	0.024753	1
24.533	0.39398	0.36909	0.024887	1
24.55	0.39398	0.36896	0.025021	1
24.567	0.39398	0.36882	0.025155	1
24.583	0.39398	0.36869	0.025289	1
24.6	0.34951	0.36856	-0.019047	1
24.617	0.39398	0.36842	0.025557	1
24.633	0.39398	0.36829	0.025691	1
24.65	0.39398	0.36816	0.025825	1
24.667	0.39398	0.36802	0.025959	1
24.683	0.34406	0.36789	-0.023828	1
24.7	0.34951	0.36775	-0.018244	1
24.717	0.39398	0.36762	0.02636	1
24.733	0.39398	0.36749	0.026493	1
24.75	0.34406	0.36735	-0.023293	1
24.767	0.39398	0.36722	0.026761	1
24.783	0.34951	0.36709	-0.017576	1
24.8	0.29958	0.36695	-0.067373	1
24.817	0.39398	0.36682	0.027161	1
24.833	0.29958	0.36669	-0.067106	1
24.85	0.34406	0.36655	-0.022493	1
24.867	0.39398	0.36642	0.027561	1
24.883	0.39398	0.36629	0.027693	1
24.9	0.34406	0.36615	-0.022093	1
24.917	0.39398	0.36602	0.02796	1
24.933	0.39398	0.36589	0.028093	1
24.95	0.39398	0.36575	0.028226	1
24.967	0.39398	0.36562	0.028359	1
24.983	0.29958	0.36549	-0.065909	1
25	0.39398	0.36536	0.028624	1
25.017	0.29958	0.36522	-0.065643	1
25.033	0.39398	0.36509	0.02889	1
25.05	0.39398	0.36496	0.029023	1
25.067	0.39398	0.36482	0.029155	1
25.083	0.39398	0.36469	0.029288	1
25.1	0.39398	0.36456	0.02942	1
25.117	0.34406	0.36443	-0.020367	1
25.133	0.34951	0.3643	-0.014785	1
25.15	0.34951	0.36416	-0.014651	1
25.167	0.34406	0.36403	-0.01997	1
25.183	0.39398	0.3639	0.030082	1
25.2	0.39398	0.36377	0.030215	1
25.217	0.39398	0.36363	0.030347	1
25.233	0.39398	0.3635	0.030479	1
25.25	0.29958	0.36337	-0.063789	1
25.267	0.39398	0.36324	0.030743	1
25.283	0.29958	0.36311	-0.063525	1
25.3	0.34406	0.36297	-0.018915	1
25.317	0.34406	0.36284	-0.018781	1
25.333	0.39398	0.36271	0.03127	1

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25.35	0.39398	0.36258	0.031403	1
25.367	0.39398	0.36245	0.031535	1
25.383	0.29958	0.36231	-0.062734	1
25.4	0.34406	0.36218	-0.018122	1
25.417	0.34406	0.36205	-0.01799	1
25.433	0.39398	0.36192	0.032061	1
25.45	0.34406	0.36179	-0.017728	1
25.467	0.34406	0.36166	-0.017596	1
25.483	0.34406	0.36152	-0.017465	1
25.5	0.34406	0.36139	-0.017333	1
25.517	0.34406	0.36126	-0.017202	1
25.533	0.39398	0.36113	0.032849	1
25.55	0.29958	0.361	-0.061419	1
25.567	0.34406	0.36087	-0.016808	1
25.583	0.34406	0.36074	-0.016677	1
25.6	0.29958	0.36061	-0.061026	1
25.617	0.34406	0.36047	-0.016415	1
25.633	0.34406	0.36034	-0.016284	1
25.65	0.29958	0.36021	-0.060633	1
25.667	0.34406	0.36008	-0.016022	1
25.683	0.29958	0.35995	-0.060371	1
25.7	0.34406	0.35982	-0.01576	1
25.717	0.34406	0.35969	-0.015629	1
25.733	0.34951	0.35956	-0.010049	1
25.75	0.34406	0.35943	-0.015368	1
25.767	0.29958	0.3593	-0.059717	1
25.783	0.34406	0.35917	-0.015107	1
25.8	0.34406	0.35904	-0.014977	1
25.817	0.29958	0.35891	-0.059326	1
25.833	0.29958	0.35878	-0.059196	1
25.85	0.34406	0.35865	-0.014585	1
25.867	0.34406	0.35851	-0.014455	1
25.883	0.34406	0.35838	-0.014325	1
25.9	0.34406	0.35825	-0.014194	1
25.917	0.34406	0.35812	-0.014064	1
25.933	0.34406	0.35799	-0.013934	1
25.95	0.34406	0.35786	-0.013804	1
25.967	0.34406	0.35773	-0.013674	1
25.983	0.34406	0.3576	-0.013544	1
26	0.34406	0.35747	-0.013414	1
26.017	0.34406	0.35734	-0.013284	1
26.033	0.34406	0.35721	-0.013154	1
26.05	0.34406	0.35708	-0.013024	1
26.067	0.29958	0.35695	-0.057371	1
26.083	0.34406	0.35683	-0.012765	1
26.1	0.34406	0.3567	-0.012635	1
26.117	0.34406	0.35657	-0.012505	1
26.133	0.34406	0.35644	-0.012376	1
26.15	0.34406	0.35631	-0.012246	1
26.167	0.34406	0.35618	-0.012117	1
26.183	0.34406	0.35605	-0.011988	1
26.2	0.34406	0.35592	-0.011858	1
26.217	0.34406	0.35579	-0.011728	1
26.233	0.34406	0.35566	-0.0116	1
26.25	0.29958	0.35553	-0.05595	1
26.267	0.34406	0.3554	-0.011341	1
26.283	0.34406	0.35527	-0.011212	1
26.3	0.34406	0.35514	-0.011083	1

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26.317	0.29958	0.35501	-0.055433	1
26.333	0.34406	0.35488	-0.010825	1
26.35	0.34406	0.35476	-0.010696	1
26.367	0.34406	0.35463	-0.010566	1
26.383	0.34406	0.3545	-0.010438	1
26.4	0.34406	0.35437	-0.010309	1
26.417	0.34406	0.35424	-0.01018	1
26.433	0.34406	0.35411	-0.010052	1
26.45	0.34406	0.35398	-0.0099228	1
26.467	0.34406	0.35385	-0.0097939	1
26.483	0.34406	0.35373	-0.0096658	1
26.5	0.34406	0.3536	-0.009537	1
26.517	0.34406	0.35347	-0.0094082	1
26.533	0.34406	0.35334	-0.0092803	1
26.55	0.34406	0.35321	-0.0091516	1
26.567	0.34406	0.35308	-0.009023	1
26.583	0.34406	0.35296	-0.0088952	1
26.6	0.34406	0.35283	-0.0087667	1
26.617	0.29958	0.3527	-0.053118	1
26.633	0.34406	0.35257	-0.0085105	1
26.65	0.34406	0.35244	-0.0083822	1
26.667	0.34406	0.35231	-0.0082538	1
26.683	0.34406	0.35219	-0.0081263	1
26.7	0.34406	0.35206	-0.0079981	1
26.717	0.34406	0.35193	-0.0078699	1
26.733	0.29958	0.3518	-0.052222	1
26.75	0.34406	0.35167	-0.0076144	1
26.767	0.34406	0.35155	-0.0074863	1
26.783	0.34406	0.35142	-0.0073591	1
26.8	0.34406	0.35129	-0.0072311	1
26.817	0.34406	0.35116	-0.0071032	1
26.833	0.34406	0.35104	-0.0069761	1
26.85	0.34406	0.35091	-0.0068482	1
26.867	0.34406	0.35078	-0.0067205	1
26.883	0.34406	0.35065	-0.0065935	1
26.9	0.34406	0.35053	-0.0064658	1
26.917	0.29958	0.3504	-0.050818	1
26.933	0.34406	0.35027	-0.0062113	1
26.95	0.34406	0.35014	-0.0060838	1
26.967	0.34406	0.35002	-0.0059563	1
26.983	0.29958	0.34989	-0.05031	1
27	0.34406	0.34976	-0.0057022	1
27.017	0.34406	0.34963	-0.0055748	1
27.033	0.34406	0.34951	-0.0054483	1
27.05	0.34406	0.34938	-0.005321	1
27.067	0.34406	0.34925	-0.0051938	1
27.083	0.34406	0.34913	-0.0050673	1
27.1	0.34406	0.349	-0.0049402	1
27.117	0.34406	0.34887	-0.0048131	1
27.133	0.29958	0.34875	-0.049167	1
27.15	0.34406	0.34862	-0.0045599	1
27.167	0.34406	0.34849	-0.0044329	1
27.183	0.34406	0.34837	-0.0043068	1
27.2	0.34406	0.34824	-0.0041799	1
27.217	0.34406	0.34811	-0.0040531	1
27.233	0.34406	0.34799	-0.0039271	1
27.25	0.34406	0.34786	-0.0038004	1
27.267	0.34406	0.34773	-0.0036737	1

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27.283	0.34406	0.34761	-0.0035478	1
27.3	0.34406	0.34748	-0.0034213	1
27.317	0.34406	0.34735	-0.0032947	1
27.333	0.34406	0.34723	-0.003169	1
27.35	0.34406	0.3471	-0.0030426	1
27.367	0.34406	0.34698	-0.0029162	1
27.383	0.34406	0.34685	-0.0027906	1
27.4	0.34406	0.34672	-0.0026643	1
27.417	0.34406	0.3466	-0.002538	1
27.433	0.34406	0.34647	-0.0024126	1
27.45	0.34406	0.34635	-0.0022864	1
27.467	0.34406	0.34622	-0.0021603	1
27.483	0.34406	0.34609	-0.002035	1
27.5	0.34406	0.34597	-0.0019089	1
27.517	0.34406	0.34584	-0.001783	1
27.533	0.29958	0.34572	-0.046138	1
27.55	0.34406	0.34559	-0.0015319	1
27.567	0.34406	0.34547	-0.001406	1
27.583	0.34406	0.34534	-0.001281	1
27.6	0.34406	0.34522	-0.0011552	1
27.617	0.29958	0.34509	-0.04551	1
27.633	0.34406	0.34496	-0.00090462	1
27.65	0.34406	0.34484	-0.000779	1
27.667	0.29958	0.34471	-0.045133	1
27.683	0.34406	0.34459	-0.00052866	1
27.7	0.34406	0.34446	-0.00040318	1
27.717	0.34406	0.34434	-0.00027775	1
27.733	0.34406	0.34421	-0.00015311	1
27.75	0.29958	0.34409	-0.044508	1
27.767	0.34406	0.34396	9.753E-005	1
27.783	0.34406	0.34384	0.00022203	1
27.8	0.34406	0.34371	0.00034724	1
27.817	0.29958	0.34359	-0.044008	1
27.833	0.34406	0.34346	0.00059676	1
27.85	0.34406	0.34334	0.00072183	1
27.867	0.29958	0.34321	-0.043633	1
27.883	0.34406	0.34309	0.00097109	1
27.9	0.34406	0.34296	0.001096	1
27.917	0.34406	0.34284	0.0012209	1
27.933	0.34406	0.34271	0.001345	1
27.95	0.34406	0.34259	0.0014698	1
27.967	0.34406	0.34247	0.0015945	1
27.983	0.34406	0.34234	0.0017185	1
28	0.34406	0.34222	0.0018432	1
28.017	0.34406	0.34209	0.0019678	1
28.033	0.34406	0.34197	0.0020916	1
28.05	0.34406	0.34184	0.0022161	1
28.067	0.34406	0.34172	0.0023406	1
28.083	0.34406	0.3416	0.0024643	1
28.1	0.34406	0.34147	0.0025887	1
28.117	0.29958	0.34135	-0.041767	1
28.133	0.29958	0.34122	-0.041643	1
28.15	0.34406	0.3411	0.0029608	1
28.167	0.34406	0.34097	0.0030851	1
28.183	0.34406	0.34085	0.0032085	1
28.2	0.29958	0.34073	-0.041147	1
28.217	0.34406	0.3406	0.0034567	1
28.233	0.34406	0.34048	0.00358	1

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28.25	0.34406	0.34036	0.0037039	1
28.267	0.34406	0.34023	0.0038279	1
28.283	0.34406	0.34011	0.003951	1
28.3	0.29958	0.33999	-0.040405	1
28.317	0.34406	0.33986	0.0041987	1
28.333	0.34406	0.33974	0.0043217	1
28.35	0.34406	0.33961	0.0044454	1
28.367	0.29958	0.33949	-0.039911	1
28.383	0.34406	0.33937	0.004692	1
28.4	0.34406	0.33924	0.0048155	1
28.417	0.34406	0.33912	0.0049391	1
28.433	0.34406	0.339	0.0050618	1
28.45	0.34406	0.33887	0.0051853	1
28.467	0.34406	0.33875	0.0053087	1
28.483	0.34406	0.33863	0.0054313	1
28.5	0.29958	0.33851	-0.038925	1
28.517	0.34406	0.33838	0.0056778	1
28.533	0.34406	0.33826	0.0058003	1
28.55	0.34406	0.33814	0.0059235	1
28.567	0.34406	0.33801	0.0060466	1
28.583	0.34406	0.33789	0.006169	1
28.6	0.34406	0.33777	0.006292	1
28.617	0.29958	0.33764	-0.038065	1
28.633	0.34406	0.33752	0.0065372	1
28.65	0.34406	0.3374	0.0066601	1
28.667	0.34406	0.33728	0.006783	1
28.683	0.34406	0.33715	0.0069051	1
28.7	0.34406	0.33703	0.0070279	1
28.717	0.34406	0.33691	0.0071506	1
28.733	0.29958	0.33679	-0.037207	1
28.75	0.34406	0.33666	0.0073952	1
28.767	0.34406	0.33654	0.0075178	1
28.783	0.34406	0.33642	0.0076396	1
28.8	0.34406	0.3363	0.0077621	1
28.817	0.29958	0.33618	-0.036595	1
28.833	0.34406	0.33605	0.0080062	1
28.85	0.34406	0.33593	0.0081286	1
28.867	0.34406	0.33581	0.0082509	1
28.883	0.34406	0.33569	0.0083725	1
28.9	0.34406	0.33557	0.0084947	1
28.917	0.34406	0.33544	0.0086169	1
28.933	0.34406	0.33532	0.0087381	1
28.95	0.34406	0.3352	0.0088604	1
28.967	0.34406	0.33508	0.0089825	1
28.983	0.34406	0.33496	0.0091038	1
29	0.34406	0.33483	0.0092257	1
29.017	0.34406	0.33471	0.0093477	1
29.033	0.29958	0.33459	-0.035011	1
29.05	0.34406	0.33447	0.0095907	1
29.067	0.34406	0.33435	0.0097122	1
29.083	0.34406	0.33423	0.0098335	1
29.1	0.34406	0.3341	0.0099552	1
29.117	0.34406	0.33398	0.010077	1
29.133	0.34406	0.33386	0.010198	1
29.15	0.29958	0.33374	-0.034161	1
29.167	0.34406	0.33362	0.010441	1
29.183	0.29958	0.3335	-0.033918	1
29.2	0.34406	0.33338	0.010683	1

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29.217	0.34406	0.33326	0.010804	1
29.233	0.29958	0.33313	-0.033555	1
29.25	0.29958	0.33301	-0.033434	1
29.267	0.34406	0.33289	0.011168	1
29.283	0.34406	0.33277	0.011288	1
29.3	0.34406	0.33265	0.011409	1
29.317	0.29958	0.33253	-0.03295	1
29.333	0.34406	0.33241	0.011651	1
29.35	0.34406	0.33229	0.011772	1
29.367	0.34406	0.33217	0.011893	1
29.383	0.29958	0.33205	-0.032467	1
29.4	0.34406	0.33193	0.012134	1
29.417	0.34406	0.33181	0.012255	1
29.433	0.34406	0.33169	0.012375	1
29.45	0.34406	0.33156	0.012496	1
29.467	0.34406	0.33144	0.012616	1
29.483	0.34406	0.33132	0.012736	1
29.5	0.34406	0.3312	0.012857	1
29.517	0.29958	0.33108	-0.031502	1
29.533	0.34406	0.33096	0.013098	1
29.55	0.34406	0.33084	0.013218	1
29.567	0.34406	0.33072	0.013339	1
29.583	0.34406	0.3306	0.013458	1
29.6	0.29414	0.33048	-0.036341	1
29.617	0.34406	0.33036	0.013699	1
29.633	0.34406	0.33024	0.013819	1
29.65	0.34406	0.33012	0.013939	1
29.667	0.29958	0.33	-0.030421	1
29.683	0.29414	0.32988	-0.035742	1
29.7	0.34406	0.32976	0.014299	1
29.717	0.34406	0.32964	0.014419	1
29.733	0.29958	0.32952	-0.029942	1
29.75	0.29414	0.3294	-0.035262	1
29.767	0.34406	0.32928	0.014778	1
29.783	0.34406	0.32916	0.014897	1
29.8	0.24965	0.32904	-0.079393	1
29.817	0.29958	0.32892	-0.029343	1
29.833	0.34406	0.3288	0.015256	1
29.85	0.34406	0.32868	0.015376	1
29.867	0.34406	0.32856	0.015495	1
29.883	0.34406	0.32845	0.015614	1
29.9	0.34406	0.32833	0.015734	1
29.917	0.34406	0.32821	0.015853	1
29.933	0.34406	0.32809	0.015972	1
29.95	0.34406	0.32797	0.016092	1
29.967	0.34406	0.32785	0.016211	1
29.983	0.34406	0.32773	0.01633	1
30	0.34406	0.32761	0.016449	1
30.017	0.29958	0.32749	-0.027912	1
30.033	0.34406	0.32737	0.016687	1
30.05	0.29958	0.32725	-0.027674	1
30.067	0.24965	0.32713	-0.077485	1
30.083	0.34406	0.32702	0.017044	1
30.1	0.34406	0.3269	0.017163	1
30.117	0.29958	0.32678	-0.027198	1
30.133	0.34406	0.32666	0.0174	1
30.15	0.29414	0.32654	-0.032401	1
30.167	0.34406	0.32642	0.017638	1

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30.183	0.34406	0.3263	0.017756	1
30.2	0.34406	0.32619	0.017875	1
30.217	0.34406	0.32607	0.017994	1
30.233	0.34406	0.32595	0.018112	1
30.25	0.29958	0.32583	-0.02625	1
30.267	0.24965	0.32571	-0.076061	1
30.283	0.29414	0.32559	-0.031453	1
30.3	0.34406	0.32547	0.018585	1
30.317	0.29414	0.32536	-0.031216	1
30.333	0.34406	0.32524	0.018822	1
30.35	0.29958	0.32512	-0.02554	1
30.367	0.29414	0.325	-0.030861	1
30.383	0.34406	0.32488	0.019176	1
30.4	0.34406	0.32477	0.019295	1
30.417	0.34406	0.32465	0.019413	1
30.433	0.29414	0.32453	-0.03039	1
30.45	0.24965	0.32441	-0.074762	1
30.467	0.29414	0.32429	-0.030153	1
30.483	0.29414	0.32418	-0.030036	1
30.5	0.24965	0.32406	-0.074408	1
30.517	0.29414	0.32394	-0.0298	1
30.533	0.29414	0.32382	-0.029683	1
30.55	0.29414	0.3237	-0.029565	1
30.567	0.29958	0.32359	-0.024007	1
30.583	0.29414	0.32347	-0.02933	1
30.6	0.29414	0.32335	-0.029212	1
30.617	0.24965	0.32323	-0.073584	1
30.633	0.29414	0.32312	-0.028977	1
30.65	0.29414	0.323	-0.02886	1
30.667	0.29414	0.32288	-0.028742	1
30.683	0.29414	0.32277	-0.028625	1
30.7	0.29414	0.32265	-0.028508	1
30.717	0.29414	0.32253	-0.02839	1
30.733	0.29414	0.32241	-0.028273	1
30.75	0.24965	0.3223	-0.072646	1
30.767	0.24965	0.32218	-0.072529	1
30.783	0.29414	0.32206	-0.027922	1
30.8	0.29414	0.32194	-0.027805	1
30.817	0.24965	0.32183	-0.072177	1
30.833	0.24965	0.32171	-0.072061	1
30.85	0.29414	0.32159	-0.027454	1
30.867	0.29958	0.32148	-0.021897	1
30.883	0.24965	0.32136	-0.071711	1
30.9	0.29414	0.32124	-0.027103	1
30.917	0.29414	0.32113	-0.026986	1
30.933	0.29414	0.32101	-0.02687	1
30.95	0.24965	0.32089	-0.071243	1
30.967	0.29414	0.32078	-0.026636	1
30.983	0.29414	0.32066	-0.02652	1
31	0.29414	0.32054	-0.026403	1
31.017	0.29414	0.32043	-0.026287	1
31.033	0.29414	0.32031	-0.026171	1
31.05	0.34406	0.32019	0.023866	1
31.067	0.29414	0.32008	-0.025938	1
31.083	0.29414	0.31996	-0.025822	1
31.1	0.29414	0.31985	-0.025705	1
31.117	0.29414	0.31973	-0.025589	1
31.133	0.29414	0.31961	-0.025473	1

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31.15	0.29414	0.3195	-0.025357	1
31.167	0.29414	0.31938	-0.02524	1
31.183	0.29414	0.31926	-0.025125	1
31.2	0.29414	0.31915	-0.025008	1
31.217	0.24965	0.31903	-0.069382	1
31.233	0.29414	0.31892	-0.024777	1
31.25	0.29414	0.3188	-0.024661	1
31.267	0.29414	0.31868	-0.024544	1
31.283	0.24965	0.31857	-0.068919	1
31.3	0.29414	0.31845	-0.024313	1
31.317	0.29414	0.31834	-0.024197	1
31.333	0.29414	0.31822	-0.024082	1
31.35	0.24965	0.31811	-0.068456	1
31.367	0.29414	0.31799	-0.02385	1
31.383	0.29414	0.31788	-0.023735	1
31.4	0.24965	0.31776	-0.068109	1
31.417	0.24965	0.31764	-0.067994	1
31.433	0.24965	0.31753	-0.067879	1
31.45	0.29414	0.31741	-0.023273	1
31.467	0.29414	0.3173	-0.023157	1
31.483	0.24965	0.31718	-0.067533	1
31.5	0.29414	0.31707	-0.022927	1
31.517	0.29414	0.31695	-0.022812	1
31.533	0.29414	0.31684	-0.022697	1
31.55	0.29414	0.31672	-0.022582	1
31.567	0.29414	0.31661	-0.022466	1
31.583	0.29414	0.31649	-0.022352	1
31.6	0.29414	0.31638	-0.022236	1
31.617	0.29414	0.31626	-0.022121	1
31.633	0.29414	0.31615	-0.022007	1
31.65	0.29414	0.31603	-0.021892	1
31.667	0.29414	0.31592	-0.021776	1
31.683	0.29414	0.3158	-0.021662	1
31.7	0.29414	0.31569	-0.021547	1
31.717	0.29414	0.31557	-0.021432	1
31.733	0.29414	0.31546	-0.021318	1
31.75	0.24965	0.31534	-0.065693	1
31.767	0.29414	0.31523	-0.021088	1
31.783	0.29414	0.31511	-0.020974	1
31.8	0.24965	0.315	-0.065349	1
31.817	0.29414	0.31488	-0.020745	1
31.833	0.29414	0.31477	-0.020631	1
31.85	0.29414	0.31466	-0.020516	1
31.867	0.29414	0.31454	-0.020402	1
31.883	0.24965	0.31443	-0.064778	1
31.9	0.29414	0.31431	-0.020173	1
31.917	0.29414	0.3142	-0.020059	1
31.933	0.29414	0.31409	-0.019945	1
31.95	0.24965	0.31397	-0.064321	1
31.967	0.29414	0.31386	-0.019716	1
31.983	0.29414	0.31374	-0.019603	1
32	0.29414	0.31363	-0.019488	1
32.017	0.29414	0.31351	-0.019374	1
32.033	0.29414	0.3134	-0.019261	1
32.05	0.29414	0.31329	-0.019147	1
32.067	0.29414	0.31317	-0.019033	1
32.083	0.24965	0.31306	-0.063409	1
32.1	0.29414	0.31295	-0.018805	1

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32.117	0.29414	0.31283	-0.018691	1
32.133	0.29414	0.31272	-0.018578	1
32.15	0.29414	0.3126	-0.018464	1
32.167	0.29414	0.31249	-0.01835	1
32.183	0.29414	0.31238	-0.018237	1
32.2	0.29414	0.31226	-0.018123	1
32.217	0.24965	0.31215	-0.0625	1
32.233	0.29414	0.31204	-0.017897	1
32.25	0.29414	0.31192	-0.017783	1
32.267	0.24965	0.31181	-0.06216	1
32.283	0.24965	0.3117	-0.062047	1
32.3	0.29414	0.31158	-0.017443	1
32.317	0.29414	0.31147	-0.01733	1
32.333	0.29414	0.31136	-0.017217	1
32.35	0.24965	0.31124	-0.061594	1
32.367	0.29414	0.31113	-0.01699	1
32.383	0.29414	0.31102	-0.016878	1
32.4	0.29414	0.3109	-0.016764	1
32.417	0.24965	0.31079	-0.061141	1
32.433	0.29414	0.31068	-0.016539	1
32.45	0.29414	0.31057	-0.016426	1
32.467	0.29414	0.31045	-0.016312	1
32.483	0.29414	0.31034	-0.0162	1
32.5	0.29414	0.31023	-0.016087	1
32.517	0.29414	0.31011	-0.015974	1
32.533	0.24965	0.31	-0.060352	1
32.55	0.24965	0.30989	-0.060239	1
32.567	0.29414	0.30978	-0.015636	1
32.583	0.29414	0.30966	-0.015524	1
32.6	0.29414	0.30955	-0.015411	1
32.617	0.24965	0.30944	-0.059789	1
32.633	0.29414	0.30933	-0.015187	1
32.65	0.29414	0.30921	-0.015074	1
32.667	0.24965	0.3091	-0.059451	1
32.683	0.29414	0.30899	-0.014849	1
32.7	0.24965	0.30888	-0.059227	1
32.717	0.29414	0.30876	-0.014624	1
32.733	0.24965	0.30865	-0.059003	1
32.75	0.29414	0.30854	-0.0144	1
32.767	0.24965	0.30843	-0.058778	1
32.783	0.29414	0.30832	-0.014176	1
32.8	0.24965	0.3082	-0.058554	1
32.817	0.29414	0.30809	-0.013952	1
32.833	0.29414	0.30798	-0.013841	1
32.85	0.29414	0.30787	-0.013728	1
32.867	0.29414	0.30776	-0.013616	1
32.883	0.29414	0.30764	-0.013505	1
32.9	0.29414	0.30753	-0.013393	1
32.917	0.29414	0.30742	-0.013281	1
32.933	0.29414	0.30731	-0.013169	1
32.95	0.29414	0.3072	-0.013057	1
32.967	0.24965	0.30709	-0.057436	1
32.983	0.29414	0.30697	-0.012834	1
33	0.29414	0.30686	-0.012723	1
33.017	0.24965	0.30675	-0.057101	1
33.033	0.29414	0.30664	-0.0125	1
33.05	0.29414	0.30653	-0.012388	1
33.067	0.24965	0.30642	-0.056767	1

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33.083	0.29414	0.30631	-0.012166	1
33.1	0.29414	0.30619	-0.012054	1
33.117	0.29414	0.30608	-0.011943	1
33.133	0.29414	0.30597	-0.011832	1
33.15	0.29414	0.30586	-0.01172	1
33.167	0.24965	0.30575	-0.056099	1
33.183	0.29414	0.30564	-0.011498	1
33.2	0.29414	0.30553	-0.011387	1
33.217	0.29414	0.30542	-0.011276	1
33.233	0.29414	0.30531	-0.011165	1
33.25	0.29414	0.30519	-0.011054	1
33.267	0.24965	0.30508	-0.055433	1
33.283	0.29414	0.30497	-0.010833	1
33.3	0.29414	0.30486	-0.010721	1
33.317	0.29414	0.30475	-0.01061	1
33.333	0.24965	0.30464	-0.05499	1
33.35	0.29414	0.30453	-0.010389	1
33.367	0.24965	0.30442	-0.054768	1
33.383	0.24965	0.30431	-0.054658	1
33.4	0.29414	0.3042	-0.010057	1
33.417	0.29414	0.30409	-0.0099466	1
33.433	0.29414	0.30398	-0.0098365	1
33.45	0.29414	0.30387	-0.0097258	1
33.467	0.29414	0.30376	-0.0096151	1

==

RESULTS FROM VISUAL CURVE MATCHING

VISUAL MATCH PARAMETER ESTIMATES

		Estimate
K	=	5.9972E-006
y0	=	6.3024E-001

<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<>>>

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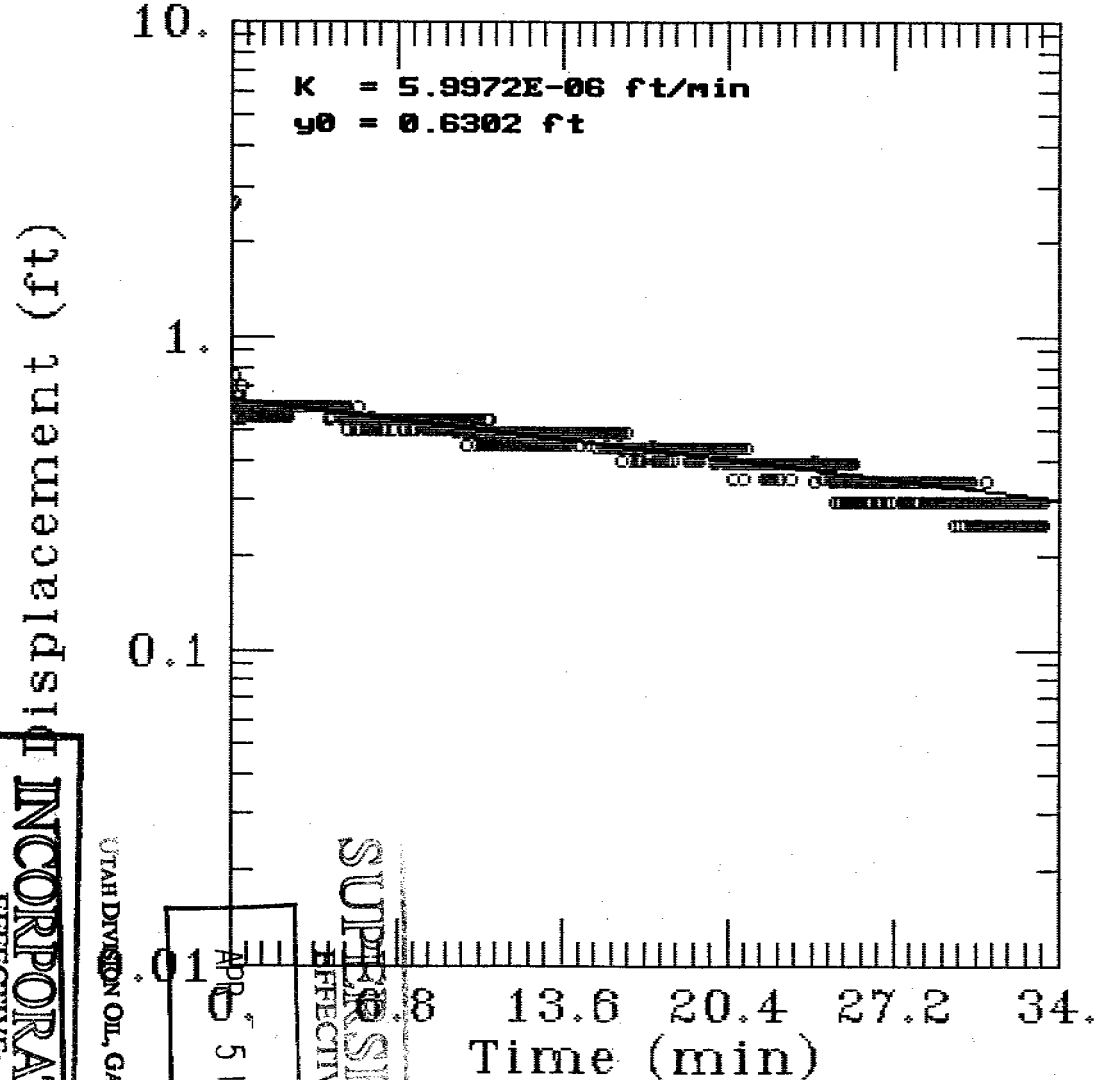
DH-3 STORRS SLUG INJECTION TEST #2



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EFFECTIVE:
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A Q T E S O L V R E S U L T S
Version 1.10

05/12/92 00:59:25

TEST DESCRIPTION

Data set..... DH3PANS2.AQT
Data set title..... DH-3 PANTHER SLUG INJECTION TEST #2
Company..... EARTHFAX ENGINEERING
Project..... UC-192-06
Client..... CO-OP MINE
Location..... BEAR CANYON MINE
Test date..... 1-17-92
Test well..... DH-2

Knowns and Constants:
- No. of data points..... 2000
- Radius of well casing..... 0.1
- Radius of well..... 0.1
- Aquifer saturated thickness..... 72
- Well screen length..... 70
- Static height of water in well..... 72
- Log(Re/Rw)..... 5.441
- A, B, C..... 0.000, 0.000, 11.627

ANALYTICAL METHOD

Bouwer-Rice (Unconfined Aquifer Slug Test)

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RESULTS FROM STATISTICAL CURVE MATCHING

STATISTICAL MATCH PARAMETER ESTIMATES

	Estimate		Std. Error
K =	6.6492E-005	+/-	8.3072E-006
y0 =	7.1181E-001	+/-	2.3288E-002

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ANALYSIS OF MODEL RESIDUALS

residual = calculated - observed
weighted residual = residual * weight

Weighted Residual Statistics:
- Number of residuals..... 175
- Number of estimated parameters.... 2
- Degrees of freedom..... 173
- Residual mean..... 0.0002855
- Residual standard deviation..... 0.1296
- Residual variance..... 0.0168

del Residuals:

Time	Observed	Calculated	Residual	Weight
0.066667	1.9962	0.70374	1.2925	1
0.083333	1.6843	0.70174	0.98256	1
0.11667	0.59886	0.69774	-0.098884	1
0.13333	0.59886	0.69576	-0.096898	1
0.15	0.7363	0.69378	0.042524	1
0.16667	0.63651	0.6918	-0.055291	1
0.18333	0.63651	0.68983	-0.053321	1
0.2	0.63651	0.68787	-0.051356	1
0.21667	0.63651	0.68591	-0.049398	1
0.23333	0.59886	0.68395	-0.085094	1
0.25	0.59886	0.68201	-0.083147	1
0.26667	0.63651	0.68006	-0.043555	1
0.28333	0.59886	0.67813	-0.079268	1
0.3	0.59886	0.6762	-0.077337	1
0.31667	0.59886	0.67427	-0.075412	1
0.33333	0.63651	0.67235	-0.035842	1
0.35	0.59886	0.67044	-0.071577	1
0.36667	0.59886	0.66853	-0.069668	1
0.38333	0.59886	0.66662	-0.067764	1
0.4	0.63651	0.66473	-0.028216	1
0.41667	0.59886	0.66283	-0.063973	1
0.43333	0.59886	0.66095	-0.062086	1
0.45	0.59886	0.65906	-0.060203	1
0.46667	0.59886	0.65719	-0.058327	1
0.48333	0.63651	0.65532	-0.018805	1
0.5	0.63651	0.65345	-0.016939	1
0.51667	0.63651	0.65159	-0.015078	1
0.53333	0.63651	0.64973	-0.013223	1
0.55	0.63651	0.64788	-0.011373	1
0.56667	0.59886	0.64604	-0.047178	1
0.58333	0.63651	0.6442	-0.0076883	1
0.6	0.63651	0.64236	-0.0058538	1
0.61667	0.59886	0.64053	-0.041675	1
0.63333	0.54896	0.63871	-0.089751	1
0.65	0.54896	0.63689	-0.087932	1
0.66667	0.54896	0.63508	-0.086118	1
0.68333	0.58661	0.63327	-0.04666	1
0.7	0.58661	0.63147	-0.044857	1
0.71667	0.54896	0.62967	-0.080[illegible]	1
0.73333	0.58661	0.62788	-0.041[illegible]	1
0.75	0.54896	0.62609	-0.077127	1
0.76667	0.54896	0.6243	-0.075345	1
0.78333	0.58661	0.62253	-0.035917	1
0.8	0.58661	0.62075	-0.034144	1
0.81667	0.58661	0.61899	-0.032376	1
0.83333	0.54896	0.61722	-0.068264	1
0.85	0.54896	0.61547	-0.066506	1
0.86667	0.54896	0.61371	-0.064754	1
0.88333	0.54896	0.61197	-0.063006	1
0.9	0.54896	0.61022	-0.061263	1
0.91667	0.58661	0.60849	-0.021876	1
0.93333	0.54896	0.60675	-0.057793	1

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0.95	0.58661	0.60503	-0.018415	1
0.96667	0.58661	0.6033	-0.016692	1
0.98333	0.58661	0.60158	-0.014974	1
1	0.54896	0.59987	-0.050911	1
1.0167	0.58661	0.59816	-0.011553	1
1.0333	0.54896	0.59646	-0.0475	1
1.05	0.54896	0.59476	-0.045801	1
1.0667	0.58661	0.59307	-0.0064574	1
1.0833	0.58661	0.59138	-0.0047693	1
1.1	0.54896	0.58969	-0.040735	1
1.1167	0.58661	0.58802	-0.0014054	1
1.1333	0.58661	0.58634	0.00026839	1
1.15	0.58661	0.58467	0.0019384	1
1.1667	0.54896	0.58301	-0.034046	1
1.1833	0.58661	0.58135	0.0052631	1
1.2	0.58661	0.57969	0.0069189	1
1.2167	0.58661	0.57804	0.0085699	1
1.2333	0.58661	0.57639	0.010215	1
1.25	0.58661	0.57475	0.011857	1
1.2667	0.58661	0.57312	0.013494	1
1.2833	0.58661	0.57148	0.015125	1
1.3	0.54896	0.56986	-0.020897	1
1.3167	0.58661	0.56823	0.018376	1
1.3333	0.54896	0.56662	-0.017657	1
1.35	0.54896	0.565	-0.016043	1
1.3667	0.49905	0.56339	-0.064343	1
1.3833	0.58661	0.56179	0.02482	1
1.4	0.54896	0.56019	-0.01123	1
1.4167	0.54896	0.55859	-0.0096342	1
1.4333	0.53671	0.557	-0.020294	1
1.45	0.53671	0.55542	-0.018708	1
1.4667	0.49905	0.55384	-0.054786	1
1.4833	0.49905	0.55226	-0.053209	1
1.5	0.53671	0.55069	-0.013976	1
1.5167	0.49905	0.54912	-0.050068	1
1.5333	0.49905	0.54756	-0.048505	1
1.55	0.53671	0.546	-0.0092855	1
1.5667	0.53671	0.54444	-0.0077304	1
1.5833	0.53671	0.54289	-0.0061807	1
1.6	0.49905	0.54134	-0.042294	1
1.6167	0.49905	0.5398	-0.040753	1
1.6333	0.49905	0.53827	-0.039216	1
1.65	0.53671	0.53673	-2.3013E-005	1
1.6667	0.53671	0.5352	0.0015051	1
1.6833	0.53671	0.53368	0.0030241	1
1.7	0.53671	0.53216	0.0045491	1
1.7167	0.49905	0.53065	-0.031595	1
1.7333	0.49905	0.52913	-0.030085	1
1.75	0.53671	0.52763	0.0090823	1
1.7667	0.53671	0.52612	0.010585	1
1.7833	0.53671	0.52463	0.012083	1
1.8	0.53671	0.52313	0.013577	1
1.8167	0.53671	0.52164	0.015067	1
1.8333	0.49905	0.52016	-0.021108	1
1.85	0.53671	0.51868	0.018033	1
1.8667	0.53671	0.5172	0.01951	1
1.8833	0.49905	0.51573	-0.016677	1
1.9	0.53671	0.51426	0.022452	1

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1.9167	0.53671	0.51279	0.023916	1
1.9333	0.49905	0.51133	-0.012284	1
1.95	0.53671	0.50988	0.026832	1
1.9667	0.53671	0.50843	0.028284	1
1.9833	0.49905	0.50698	-0.0079284	1
2	0.49905	0.50553	-0.0064844	1
2.0167	0.53671	0.50409	0.032615	1
2.0333	0.53671	0.50266	0.03405	1
2.05	0.49905	0.50123	-0.002178	1
2.0667	0.49905	0.4998	-0.00075045	1
2.0833	0.53671	0.49838	0.038332	1
2.1	0.53671	0.49696	0.039752	1
2.1167	0.53671	0.49554	0.041167	1
2.1333	0.53671	0.49413	0.042578	1
2.15	0.49905	0.49273	0.006325	1
2.1667	0.49905	0.49132	0.0077284	1
2.1833	0.53671	0.48992	0.046787	1
2.2	0.53671	0.48853	0.048182	1
2.2167	0.49905	0.48714	0.011914	1
2.2333	0.53671	0.48575	0.05096	1
2.25	0.49905	0.48437	0.014684	1
2.2667	0.48682	0.48299	0.0038333	1
2.2833	0.53671	0.48161	0.055098	1
2.3	0.48682	0.48024	0.0065798	1
2.3167	0.49905	0.47887	0.020178	1
2.3333	0.49905	0.47751	0.021541	1
2.35	0.44914	0.47615	-0.027009	1
2.3667	0.44914	0.47479	-0.025653	1
2.3833	0.48682	0.47344	0.013378	1
2.4	0.48682	0.47209	0.014727	1
2.4167	0.53671	0.47075	0.065961	1
2.4333	0.44914	0.46941	-0.020269	1
2.45	0.44914	0.46807	-0.018932	1
2.4667	0.44914	0.46674	-0.017599	1
2.4833	0.48682	0.46541	0.02141	1
2.5	0.48682	0.46408	0.022736	1
2.5167	0.44914	0.46276	-0.013623	1
2.5333	0.44914	0.46145	-0.012305	1
2.55	0.44914	0.46013	-0.010991	1
2.5667	0.44914	0.45882	-0.0096806	1
2.5833	0.48682	0.45751	0.029305	1
2.6	0.48682	0.45621	0.030608	1
2.6167	0.44914	0.45491	-0.0057722	1
2.6333	0.44914	0.45362	-0.0044773	1
2.65	0.44914	0.45233	-0.0031851	1
2.6667	0.44914	0.45104	-0.001897	1
2.6833	0.48682	0.44975	0.037067	1
2.7	0.48682	0.44847	0.038348	1
2.7167	0.48682	0.44719	0.039625	1
2.7333	0.44914	0.44592	0.003218	1
2.75	0.44914	0.44465	0.0044881	1
2.7667	0.48682	0.44339	0.043435	1
2.7833	0.48682	0.44212	0.044697	1
2.8	0.44914	0.44086	0.0082758	1
2.8167	0.44914	0.43961	0.0095315	1
2.8333	0.44914	0.43836	0.010783	1
2.85	0.44914	0.43711	0.012031	1
2.8667	0.48682	0.43586	0.050956	1

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2.8833	0.44914	0.43462	0.014517	1
2.9	0.44914	0.43339	0.015755	1
2.9167	0.44914	0.43215	0.016989	1
2.9333	0.44914	0.43092	0.018217	1
2.95	0.48682	0.42969	0.057127	1
2.9667	0.44914	0.42847	0.020673	1
2.9833	0.48682	0.42725	0.059568	1

==

RESULTS FROM VISUAL CURVE MATCHING

VISUAL MATCH PARAMETER ESTIMATES

	Estimate
K =	6.6492E-005
y0 =	7.1181E-001

<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<>>

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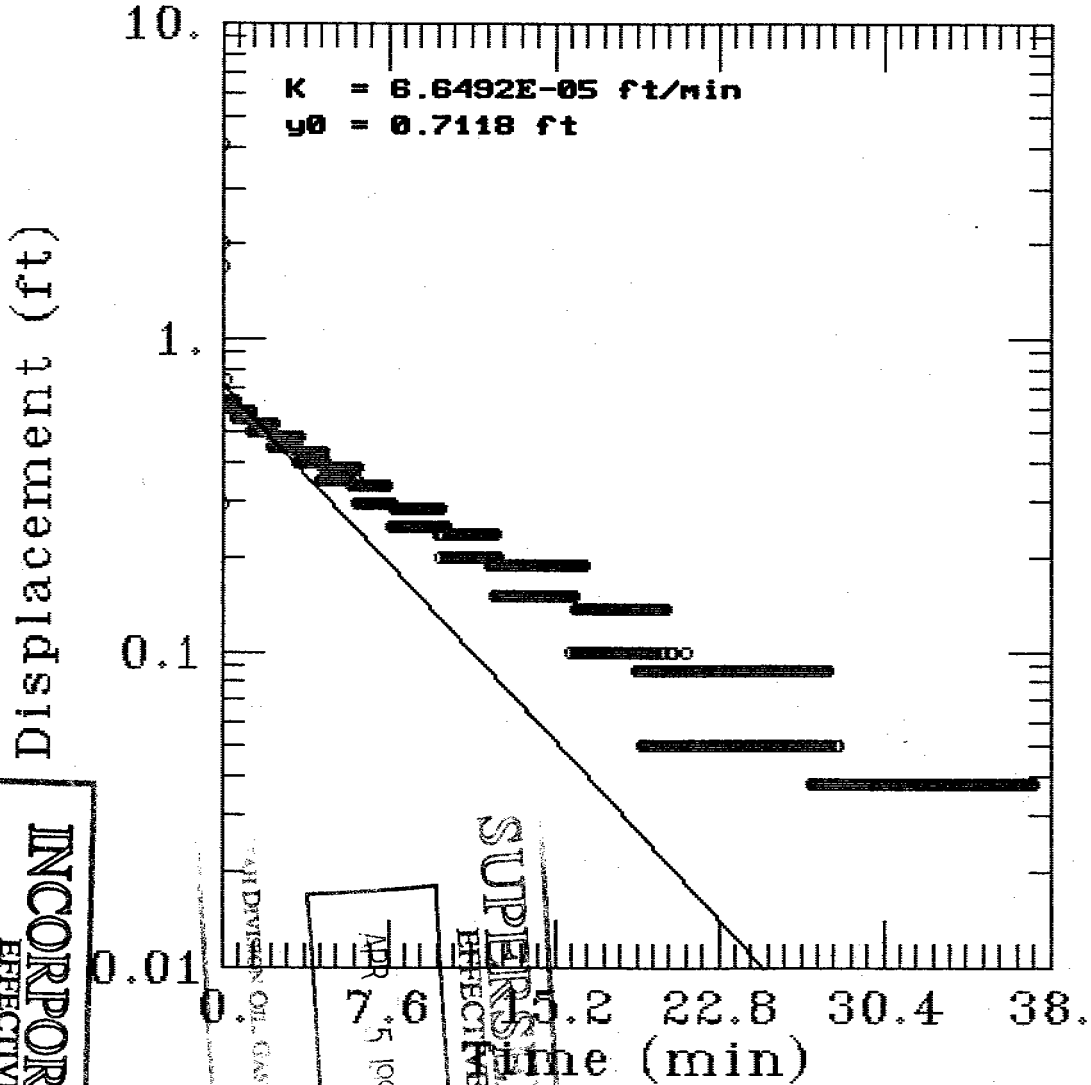
DH-3 PANTHER SLUG INJECTION TEST #2



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Appendix 7N-G

Stratigraphic Logs and Completion Diagrams for In-Mine Drillholes DH-1A, DH-2, and DH-3

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KEY TO SYMBOLS

- SANDSTONE
- MUDSTONE
- MUDDY SANDSTONE
- SANDY MUDSTONE
- SHALE
- COAL
- CEMENT
- BENTONITE
- 20-40 MESH SILICA SAND
- CORE SAMPLE

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EARTHFAX ENGINEERING, INC. HYDROGEOLOGIC LOG

Project Name: GROUND WATER INVESTIGATION Owner/Client: CO-OP MINING COMPANY	Boring/Well Number: DH-1A Boring/Well Location: 395059.18 N 2112761.51 E
Project Number: UC-192-06	Reference Elevation: 7535.71 Reference Point: MINE FLOOR
Date Drilled: 06 AUG 1991 Logged by: JDG	Drilling Contractor: CO-OP MINE PERSONNEL Drilling Method: HYDRAULIC ROTARY Rig Type:DIAMEC 251
First occurrence of G.W.: 114.0' Static W.L.: 114.0' Dates Measured: 06 AUG 91 21 APR 92	Boring Depth (ft): 535' Well Depth (ft): 171' Boring Diameter (in): 2.9"

DEPTH (FT)	GRAPHICAL LOG	LITHOLOGIC DESCRIPTION AND OBSERVATIONS	SAMPLE LOC.	WELL COMPLETION DETAILS
0		COAL: Bottom coal. Good core.		Slip Cap with Cover
		MUDSTONE: Gray. Hard. Good core. Carbonaceous banding.		
10		SANDSTONE: Very Fine grained. Sub-rounded grains. Finely laminated. Gray to light gray color. Occasional carbonaceous stringers.		
20		Medium cross-bed sets.		Cement
30		Carbonaceous stringers.		
40		Carbonaceous stringers.		
50		Gray-white color with dark gray carbonaceous stringers on cross-beds.		
		SANDY MUDSTONE: Fine laminations. Varying proportions of sand and silt.		
60		SANDSTONE: Clean, with carbonaceous stringers on cross-beds between intervals of clean sand.		
70		Carbonaceous stringers and low angle cross-beds.		Bentonite Grout
80				
90		COAL: Hiawatha Coal seam.		
100				

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Project Name: GROUND WATER INVESTIGATION Owner/Client: CO-OP MINING COMPANY	Boring/Well Number: DH-1A Boring/Well Location: 395059.18 N 2112761.51 E
Project Number: UC-192-06	Reference Elevation: 7535.71 Reference Point: MINE FLOOR
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DEPTH (FT)	GRAPHICAL LOG	LITHOLOGIC DESCRIPTION AND OBSERVATIONS	SAMPLE LOC.	WELL COMPLETION DETAILS
100		SANDSTONE: Light gray-white colored. Spring Canyon Tongue of the Star Point Sandstone.		
		Fine-medium, rounded grains. Laminated.		
110		Fewer carbonaceous stringers. Low angle cross-beds.		
120				1.5" PVC Casing
		Carbonaceous stringers increase.		
130		Horizontal laminations. Massive bedded.		
140				20-40 Mesh Silica Sand
150		Massive bedded. Fine-medium grained. Low angle cross-beds. Dark minerals.		
160				1.5" PVC Slot Screen
		Locally dense carbonaceous stringers.		
170		Fining to fine-very fine grained.		Threaded End Plug
		Coarsening to fine-medium grained.		
180		MUDDY SANDSTONE: Dark gray colored.		Cement Plug
190		MUDSTONE: Sandy. Dark brown-gray colored. Mancos No. 1.		
		SANDY MUDSTONE: Marbled.		
200				

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Project Name: GROUND WATER INVESTIGATION Owner/Client: CO-OP MINING COMPANY	Boring/Well Number: DH-1A Boring/Well Location: 395059.18 N 2112761.51 E
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DEPTH (FT)	GRAPHICAL LOG	LITHOLOGIC DESCRIPTION AND OBSERVATIONS	SAMPLE LOC.	WELL COMPLETION DETAILS
200		SANDY MUDSTONE: Alternating marbled and laminated muddy inter-beds.		
210				
220		MUDSTONE: Gray-brown colored. Marbled. Laminated.		
		SANDY MUDSTONE: Marbled. Laminated. Laminations increasing. Sand decreasing.		
230		Sandy.		
240				
		SANDSTONE: Fine-very fine grained. Clean. Low angle cross-beds. Storre Tongue of the Star Point Sandstone.		
250		MUDDY SANDSTONE: Laminated. Marbled. Bioturbated. Sand and mud proportions vary locally.		
260				
270				
280				
290		SANDSTONE: Clean. Low angle cross-beds. occasional carbonaceous stringers.		
300				

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DEPTH (FT)	GRAPHICAL LOG	LITHOLOGIC DESCRIPTION AND OBSERVATIONS	SAMPLE LOC.	WELL COMPLETION DETAILS
300		SANDSTONE: Occasional carbonaceous partings. Pyritized fracture.		
310				
		MUDDY SANDSTONE: Mud increasing downward. Laminated. Bioturbated.		
320				
330				
340				
		MUDSTONE: Occasionally sandy. Marbled. Laminated. Dark gray colored. Locally bioturbated. Mancos No. 2.		
350				
360				
370				
380		SANDY MUDSTONE: Marbled. Bioturbated. Varies to mudstone locally.		
390				
400				

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DEPTH (FT)	GRAPHICAL LOG	LITHOLOGIC DESCRIPTION AND OBSERVATIONS	SAMPLE LOC.	WELL COMPLETION DETAILS
400		SANDY MUDSTONE:		
		SANDSTONE: Low angle cross-beds. Fine-coarse grained. Dark minerals. Occasional muddy partings. Thin-medium bedding. Moderate-poor sorting. Appears to be more pourous than upper units. Panther Tongue of the Star Point Sandstone.		
410				
420				
430		Circulation loss.		
440				
450				
460		Mud-lined fracture.		
470				
		Losing circulation.		
480				
		Muddy bands in white sandstone increasing.		
490				
500				

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First occurrence of G.W.: 114.0' Static W.L.: 114.0' Dates Measured: 06 AUG 91 21 APR 92	Boring Depth (Ft): 535' Well Depth (Ft): 171' Boring Diameter (in): 2.9"

DEPTH (FT)	GRAPHICAL LOG	LITHOLOGIC DESCRIPTION AND OBSERVATIONS	SAMPLE LOC.	WELL COMPLETION DETAILS
500		SANDSTONE:		
		SANDY MUDSTONE: White colored, fine to medium grained sandstone grading to dark gray-brown mudstone. Heavily bioturbated.		Cement Plug
510		SHALE: Mancos Shale.		
520				
530				
540				
550				
560				
570				
580				
590				
600				

SUPPLEMENTAL
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EARTHFAX ENGINEERING, INC. DRILLING LOG

Project Name: GROUND WATER INVESTIGATION Owner/Client: CO-OP MINING COMPANY	Boring/Well Number: DH-2 Boring/Well Location: 397775.88 N 2112519.39 E
Project Number: UC-192-06	Reference Elevation: 7557.18 Reference Point: MINE FLOOR
Date Drilled: 16 DEC 1991 Logged by: JDG & AM	Drilling Contractor: CO-OP MINE PERSONNEL Drilling Method: HYDRAULIC ROTARY Rig Type: DIAMEC 251
First occurrence of G.W.: 22.98 Static W.L.: 22.98 Dates Measured: 16 DEC 91 21 APR 92	Boring Depth (ft): 530' Well Depth (ft): 190' Boring Diameter (in): 2.9"

DEPTH (FT)	GRAPHICAL LOG	LITHOLOGIC DESCRIPTION AND OBSERVATIONS	SAMPLE LOC.	WELL COMPLETION DETAILS
0		SANDSTONE: Light gray sandstone.		Slip Cap with Cover
10				
20				
30				
40		Light gray sandstone.		Cement
50		Muddy (dark brown cuttings).		1.5" PVC Casing
60		Light gray sandstone resumes.		
70				
80				
90		Clean light gray sandstone.		
		COAL: Hiawatha Coal seam.		Bentonite Grout
100				

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Project Name: GROUND WATER INVESTIGATION Owner/Client: CO-OP MINING COMPANY	Boring/Well Number: DH-2 Boring/Well Location: 397775.88 N 2112519.39 E
Project Number: UC-192-06	Reference Elevation: 7557.18 Reference Point: MINE FLOOR
Date Drilled: 16 DEC 1991 Logged by: JDG & AM	Drilling Contractor: CO-OP MINE PERSONNEL Drilling Method: HYDRAULIC ROTARY Rig Type: DIAMEC 251
First occurrence of G.W.: 22.98' Static W.L.: 22.98 Dates Measured: 16 DEC 91 21 APR 92	Boring Depth (ft): 530' Well Depth (ft): 190' Boring Diameter (in): 2.9"

DEPTH (FT)	GRAPHICAL LOG	LITHOLOGIC DESCRIPTION AND OBSERVATIONS	SAMPLE LOC	WELL COMPLETION DETAILS
100		COAL: Hiawatha Coal seam.		
		SANDSTONE: Clean light gray sandstone. Spring Canyon Tongue of the Star Point Sandstone		
110		Carbonaceous stringers.		
		Light gray. Clean.		Bentonite Grout
120				1.5" PVC Casing
130				
140				
150				20-40 Mesh Silica Sand
160				
170				
180				1.5" PVC Slot Screen
190		MUDDY SANDSTONE: Muddy sandstone/sandy mudstone, gradational. Bioturbated. Clean interbeds at 198'.		Threaded End Plug Bentonite Plug
200				

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Project Name: GROUND WATER INVESTIGATION Owner/Client: CO-OP MINING COMPANY	Boring/Well Number: DH-2 Boring/Well Location: 397775.88 N 2112519.39 E
Project Number: UC-192-06	Reference Elevation: 7557.18 Reference Point: MINE FLOOR
Date Drilled: 16 DEC 1991 Logged by: JDG & AM	Drilling Contractor: CO-OP MINE PERSONNEL Drilling Method: HYDRAULIC ROTARY Rig Type: DIAMEC 251
First occurrence of G.W.: 22.98' Static W.L.: 22.98' Dates Measured: 16 DEC 91 21 APR 92	Boring Depth (ft): 530' Well Depth (ft): 190' Boring Diameter (in): 2.9"

DEPTH (FT)	GRAPHICAL LOG	LITHOLOGIC DESCRIPTION AND OBSERVATIONS	SAMPLE LOC.	WELL COMPLETION DETAILS
200		MUDDY SANDSTONE: Carbonaceous stringers.		
		SANDY MUDSTONE: Grades to mudstone. Bioturbated. Top of Mancos No. 1.		
210				
220		Gradational muddy sandstone/sandy mudstone.		Bentonite Plug
230				
240		SANDSTONE: White-light gray colored. Occasional mud in cuttings. Storrs Tongue of the Star Point Sandstone.		
250				
260				
270				
280				
290				
300				

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Project Name: GROUND WATER INVESTIGATION Owner/Client: CO-OP MINING COMPANY	Boring/Well Number: DH-2 Boring/Well Location: 397775.88 N 2112519.39 E
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First occurrence of G.W.: 22.98' Static W.L.: 22.98' Dates Measured: 16 DEC 91 21 APR 92	Boring Depth (ft): 530' Well Depth (ft): 190' Boring Diameter (in): 2.9"

DEPTH (FT)	GRAPHICAL LOG	LITHOLOGIC DESCRIPTION AND OBSERVATIONS	SAMPLE LOC.	WELL COMPLETION DETAILS
300		SANDSTONE: Light gray. Clean.		
310				
320				Bentonite Plug
330				
		MUDDY SANDSTONE: Muddy sandstone/sandy mudstone, gradational. Carbonaceous laminations.		
340				
		MUDSTONE: Top of Mancos No. 2.		
350				
360				
370				
380				
390		SANDY MUDSTONE: Bioturbated.		
400				

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Project Number: UC-192-06	Reference Elevation: 7557.18 Reference Point: MINE FLOOR
Date Drilled: 16 DEC 1991 Logged by: JDG & AM	Drilling Contractor: CO-OP MINE PERSONNEL Drilling Method: HYDRAULIC ROTARY Rig Type: DIAMEC 251
First occurrence of G.W.: 22.98' Static W.L.: 22.98' Dates Measured: 16 DEC 91 21 APR 92	Boring Depth (ft): 530' Well Depth (ft): 190' Boring Diameter (in): 2.9"

DEPTH (FT)	GRAPHICAL LOG	LITHOLOGIC DESCRIPTION AND OBSERVATIONS	SAMPLE LOC.	WELL COMPLETION DETAILS
400		SANDY MUDSTONE: Bioturbated.		
410				
420				
		SANDSTONE: Sandstone. Light gray colored. Fine to coarse grained. Dark minerals. Occasional muddy parting. Panther Tongue of the Star Point Sandstone.		Bentonite Plug
430				
440				
450				
460				
470				
480				
490				
500				

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First occurrence of G.W.: 22.98' Static W.L.: 22.98' Dates Measured: 16 DEC 91 21 APR 92	Boring Depth (ft): 530' Well Depth (ft): 190' Boring Diameter (in): 2.9"

DEPTH (FT)	GRAPHICAL LOG	LITHOLOGIC DESCRIPTION AND OBSERVATIONS	SAMPLE LOC	WELL COMPLETION DETAILS
500		SANDSTONE: Light gray colored. Fine-coarse grained. Dark minerals. Occasional muddy parting. Bioturbated. Increasing appearance of mud.		
510		SHALE: Mancos Shale.		
520				Bentonite Grout
530				
540				
550				
560				
570				
580				
590				
600				

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Project Name: GROUND WATER INVESTIGATION Owner/Client: CO-OP MINING COMPANY	Boring/Well Number: DH-3 Boring/Well Location: 394514.78 N 2113242.89 E
Project Number: UC-192-06	Reference Elevation: 7520.94 Reference Point: MINE FLOOR
Date Drilled: 29 JAN 1992 Logged by: JRP	Drilling Contractor: CO-OP MINE PERSONNEL Drilling Method: HYDRAULIC ROTARY Rig Type: DIAMEC 251
First occurrence of G.W.: 125.28' Static W.L.: 125.28' Dates Measured: 29 JAN 92 21 APR 92	Boring Depth (ft): 545' Well Depth (ft): 190' Boring Diameter (in): 2.9"

DEPTH (FT)	GRAPHICAL LOG	LITHOLOGIC DESCRIPTION AND OBSERVATIONS	SAMPLE LOC.	WELL COMPLETION DETAILS
0		COAL: Floor of mine.		Slip Cap with Cover
		MUDSTONE: Brown colored drilling fluid return.		
10				
		SANDSTONE: Gray colored drilling fluid return.		
20				
30				
40				Cement
50				1.5" PVC Casing
		Loss of drilling fluids.		
60				
70				
80				
90		COAL: Hiawatha Coal seam.		Bentonite Grout
		SANDSTONE: Spring Canyon Tongue of the Star Point Sandstone.		
100				

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Project Name: GROUND WATER INVESTIGATION Owner/Client: CO-OP MINING COMPANY	Boring/Well Number: DH-3 Boring/Well Location: 394514.78 N 2113242.89 E
Project Number: UC-192-06	Reference Elevation: 7520.94 Reference Point: MINE FLOOR
Date Drilled: 29 JAN 1992 Logged by: JRP	Drilling Contractor: CO-OP MINE PERSONNEL Drilling Method: HYDRAULIC ROTARY Rig Type: DIAMEC 251
First occurrence of G.W.: 125.28' Static W.L.: 125.28' Dates Measured: 29 JAN 92 21 APR 92	Boring Depth (ft): 545' Well Depth (ft): 190' Boring Diameter (in): 2.9"

DEPTH (FT)	GRAPHICAL LOG	LITHOLOGIC DESCRIPTION AND OBSERVATIONS	SAMPLE LOC.	WELL COMPLETION DETAILS
100		SANDSTONE: Drilled blind. No sample.		
110				
120				1.5" PVC Casing
130				
140				20-40 Mesh Silica Sand
150				
160				
170				
180		MUDDY SANDSTONE: Muddy sandstone/sandy mudstone. Fine-very fine grained. Gray colored. Massive-laminated bedding. Bioturbated. Well cemented. Very hard. Reacts with HCl.		1.5" PVC Slot Screen
190		Top of Mancos No. 1.		Threaded End Plug Bentonite Plug
200				

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EFFECTIVE:
APR 5 1995
UTAH DIVISION OIL, GAS AND MINING

Project Name: GROUND WATER INVESTIGATION Owner/Client: CO-OP MINING COMPANY	Boring/Well Number: DH-3 Boring/Well Location: 394514.78 N 2113242.89 E
Project Number: UC-192-06	Reference Elevation: 7520.94 Reference Point: MINE FLOOR
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DEPTH (FT)	GRAPHICAL LOG	LITHOLOGIC DESCRIPTION AND OBSERVATIONS	SAMPLE LOC.	WELL COMPLETION DETAILS
200		SANDY MUDSTONE: Sandy mudstone/muddy sandstone. Gradational contacts. Medium-very fine grained. Dull luster. Gritty-smooth feel. Unweathered. Sandy units are gray (5Y6/1). Muddy units are gray-brown (5Y4/1). Hard. Predominantly quartz with minor dark minerals. Mica along muddy partings. Laminated. Low angle cross-beds. Bioturbated. Non-fractured. Cores are in excellent condition.		
210				
220				Bentonite Plug
230		SANDSTONE: Sandstone/muddy sandstone. Gray colored. Fine grained. Storrs Tongue of the Star Point Sandstone.		
240		Muddy and bioturbated.		
250		Laminated and bioturbated.		
260		Sand increasing.		
270				
280				
290		Sand and muddy sand.		
300				

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SUPERSEDED
EFFECTIVE
APR 5 1995
UTAH DIVISION OIL, GAS AND MINING

Project Name: GROUND WATER INVESTIGATION Owner/Client: CO-OP MINING COMPANY	Boring/Well Number: DH-3 Boring/Well Location: 394514.78 N 2113242.89 E
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DEPTH (FT)	GRAPHICAL LOG	LITHOLOGIC DESCRIPTION AND OBSERVATIONS	SAMPLE LOC.	WELL COMPLETION DETAILS
300		SANDSTONE		
		Clean Sand.		
310				
		Muddier and bioturbated.		
320				
				Bentonite Plug
330				
		Grading to muddy sand.		
340		SANDY MUDSTONE: Muddy sandstone/sandy mudstone. Gradational contacts. Dark gray-brown colored		
350		Top of Mancos No. 2.		
360				
370		Sandy mudstone/mudstone.		
380				
390		Sandy mudstone/muddy sandstone.		
400				

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SUPERSEDED
EFFECTIVE
APR 5 1995
UTAH DIVISION OIL, GAS

Project Name: GROUND WATER INVESTIGATION Owner/Client: CO-OP MINING COMPANY	Boring/Well Number: DH-3 Boring/Well Location: 394514.78 N 2113242.89 E
Project Number: UC-192-06	Reference Elevation: 7520.94 Reference Point: MINE FLOOR
Date Drilled: 29 JAN 1992 Logged by: JRP	Drilling Contractor: CO-OP MINE PERSONNEL Drilling Method: HYDRAULIC ROTARY Rig Type: DIAMEC 251
First occurrence of G.W.: 125.28' Static W.L.: 125.28' Dates Measured: 29 JAN 92 21 APR 92	Boring Depth (ft): 545' Well Depth (ft): 190' Boring Diameter (in): 2.9"

DEPTH (FT)	GRAPHICAL LOG	LITHOLOGIC DESCRIPTION AND OBSERVATIONS	SAMPLE LOC.	WELL COMPLETION DETAILS
400		SANDY MUDSTONE:		
410				
420				
		SANDSTONE: Medium-fine grained. Sub-angular to sub-rounded grain texture. Moderate sorting. Little or no weathering. Gray colored with dark minerals. Hard. Predominantly quartz, with muscovite along muddy partings. Calcite cement. Massive bedded with laminations locally. Bioturbated. Few fractures. Core is in excellent condition. Panther Tongue of the Star Point Sandstone.		Bentonite Grout
430				
440				
450				
460				
470				
480				
490				
500				

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EFFECTIVE:
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Project Name: GROUND WATER INVESTIGATION Owner/Client: CO-OP MINING COMPANY	Boring/Well Number: DH-3 Boring/Well Location: 394514.78 N 2113242.89 E
Project Number: UC-192-06	Reference Elevation: 7520.94 Reference Point: MINE FLOOR
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First occurrence of G.W.: 125.28' Static W.L.: 125.28' Dates Measured: 29 JAN 92 21 APR 92	Boring Depth (ft): 545' Well Depth (ft): 190' Boring Diameter (in): 2.9"

DEPTH (FT)	GRAPHICAL LOG	LITHOLOGIC DESCRIPTION AND OBSERVATIONS	SAMPLE LOC.	WELL COMPLETION DETAILS
500		SANDSTONE:		
510				
520		SHALE: Moncos Shale.		Bentonite Plug
530				
540				
550				
560				
570				
580				
590				
600				

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Appendix 7N-H

Groundwater Analytical Reports for May 8, 1992 Sampling Round of In-Mine Monitoring Wells DH-1A, DH-2, and DH-3

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CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER
MURRAY, UTAH 84107
PHONE: (801) 262-7299
FAX: (801) 262-7378

DATE: 6-04-92

TO: Co-op Mining
P.O. Box 1245
Huntington, Utah 84528

SAMPLE ID: Lab #U077637 - Project #C-192-06, DH-1, 5-08-92

DATE SUBMITTED: 5-13-92

CERTIFICATE OF ANALYSIS

PARAMETER	DETECTED
TDS, mg/l	285
Hardness as $CaCO_3$, mg/l	162
Boron as B, mg/l	<.05
Alkalinity as $CaCO_3$, mg/l	94
Bicarbonate as HCO_3, mg/l	110
Carbonate as CO_3, mg/l	2.3
Hydroxide as OH, mg/l	0
Chloride as Cl, mg/l	4.9
Fluoride as F, mg/l	0.28
Ammonia as NH_3-N, mg/l	<.2
Nitrate as NO_3-N, mg/l	0.42
Phosphate as PO_4-P, mg/l	0.129
Sulfate as SO_4, mg/l	128
Sulfide as S, mg/l	<.1

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EFFECTIVE:
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Rex Henderson

CHEMTECH

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MURRAY, UTAH 84107
PHONE: (801) 262-7299
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DATE: 6-04-92

TO: Co-op Mining
P.O. Box 1245
Huntington, Utah 84528

SAMPLE ID: Lab #U077637 - Project #C-192-06, DH-1, 5-08-92

DATE SUBMITTED: 5-13-92

CERTIFICATE OF ANALYSIS

PARAMETER	DETECTED
Aluminum as Al (Diss), mg/l	0.2
Arsenic as As (Diss), mg/l	<.05
Barium as Ba (Diss), mg/l	0.071
Cadmium as Cd (Diss), mg/l	<.01
Calcium as Ca (Diss), mg/l	38.9
Chromium as Cr (Diss), mg/l	0.025
Copper as Cu (Diss), mg/l	<.01
Iron as Fe (Diss), mg/l	0.505
Lead as Pb (Diss), mg/l	<.01
Magnesium as Mg (Diss), mg/l	20.1
Manganese as Mn (Diss), mg/l	0.062
Mercury as Hg (Diss), mg/l	<.0005
Molybdenum as Mo (Diss), mg/l	0.058
Nickel as Ni (Diss), mg/l	<.01
Potassium as K, mg/l	3.8
Selenium as Se, mg/l	<.005
Sodium as Na, mg/l	14.1
Zinc as Zn, mg/l	<.01
Oil & Grease, mg/l	2.0

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DATE: 6-04-92

TO: Co-op Mining
P.O. Box 1245
Huntington, Utah 84528

SAMPLE ID: Lab #U077638 - Project #C-192-06, DH-2, 5-08-92

DATE SUBMITTED: 5-13-92

CERTIFICATE OF ANALYSIS

PARAMETER	DETECTED
TDS, mg/l	330
Hardness as $CaCO_3$, mg/l	321
Boron as B, mg/l	0.064
Alkalinity as $CaCO_3$, mg/l	285
Bicarbonate as HCO_3, mg/l	340
Carbonate as CO_3, mg/l	3.5
Hydroxide as OH, mg/l	0
Chloride as Cl, mg/l	4.2
Fluoride as F, mg/l	0.18
Ammonia as NH_3-N, mg/l	0.64
Nitrate as NO_3-N, mg/l	0.74
Phosphate as PO_4-P, mg/l	0.025
Sulfate as SO_4, mg/l	33
Sulfide as S, mg/l	1

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PHONE: (801) 262-7299
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DATE: 6-04-92

TO: Co-op Mining
P.O. Box 1245
Huntington, Utah 84528

SAMPLE ID: Lab #U077638 - Project #C-192-06, DH-2, 5-08-92

DATE SUBMITTED: 5-13-92

CERTIFICATE OF ANALYSIS

PARAMETER	DETECTED
Aluminum as Al (Diss), mg/l	<.1
Arsenic as As (Diss), mg/l	<.05
Barium as Ba (Diss), mg/l	0.127
Cadmium as Cd (Diss), mg/l	<.01
Calcium as Ca (Diss), mg/l	51.9
Chromium as Cr (Diss), mg/l	<.01
Copper as Cu (Diss), mg/l	<.01
Iron as Fe (Diss), mg/l	0.280
Lead as Pb (Diss), mg/l	0.030
Magnesium as Mg (Diss), mg/l	29.5
Manganese as Mn (Diss), mg/l	0.101
Mercury as Hg (Diss), mg/l	<.0005
Molybdenum as Mo (Diss), mg/l	0.010
Nickel as Ni (Diss), mg/l	<.01
Potassium as K, mg/l	1.5
Selenium as Se, mg/l	<.05
Sodium as Na, mg/l	8.8
Zinc as Zn, mg/l	<.01
Oil & Grease, mg/l	<.5

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PHONE: (801) 262-7299
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DATE: 6-04-92

TO: Co-op Mining
P.O. Box 1245
Huntington, Utah 84528

SAMPLE ID: Lab #U077639 - Project #C-192-06, DH-3, 5-07-92

DATE SUBMITTED: 5-13-92

CERTIFICATE OF ANALYSIS

PARAMETER	DETECTED
TDS, mg/l	339
Hardness as $CaCO_3$, mg/l	307
Boron as B, mg/l	0.061
Alkalinity as $CaCO_3$, mg/l	294
Bicarbonate as HCO_3, mg/l	336
Carbonate as CO_3, mg/l	11.5
Hydroxide as OH, mg/l	0
Chloride as Cl, mg/l	4.2
Fluoride as F, mg/l	0.16
Ammonia as NH_3-N, mg/l	0.22
Nitrate as NO_3-N, mg/l	<.5
Phosphate as PO_4-P, mg/l	0.027
Sulfate as SO_4, mg/l	38
Sulfide as S, mg/l	<.1

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PHONE: (801) 262-7299
FAX: (801) 262-7378

DATE: 6-04-92

TO: Co-op Mining
P.O. Box 1245
Huntington, Utah 84528

SAMPLE ID: Lab #U077639 - Project #C-192-06, DH-3, 5-07-92

DATE SUBMITTED: 5-13-92

CERTIFICATE OF ANALYSIS

PARAMETER	DETECTED
Aluminum as Al (Diss), mg/l	<.1
Arsenic as As (Diss), mg/l	<.05
Barium as Ba (Diss), mg/l	0.129
Cadmium as Cd (Diss), mg/l	<.01
Calcium as Ca (Diss), mg/l	50.9
Chromium as Cr (Diss), mg/l	<.01
Copper as Cu (Diss), mg/l	<.01
Iron as Fe (Diss), mg/l	0.220
Lead as Pb (Diss), mg/l	<.01
Magnesium as Mg (Diss), mg/l	28.9
Manganese as Mn (Diss), mg/l	0.232
Mercury as Hg (Diss), mg/l	<.0005
Molybdenum as Mo (Diss), mg/l	<.01
Nickel as Ni (Diss), mg/l	<.01
Potassium as K, mg/l	2.6
Selenium as Se, mg/l	<.005
Sodium as Na, mg/l	15.2
Zinc as Zn, mg/l	<.01
Oil & Grease, mg/l	<.5

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