

11-17-33

Sheet J

PHILLIPS PETROLEUM COMPANY
LEAMEX NO. 39

DEPTH	SHEAR MODULUS	BULK MODULUS	YOUNG'S MODULUS	POISSON'S RATIO	FRACTURE GRADIENT	CLOSURE GRADIENT	DIFF. PRESSURE
(FEET)	(MODULUS	UNITS ARE	MILLION PSI)		(PSI/FT)	(PSI/FT)	(PSI/FT)
3689.0	3.463	9.918	9.306	0.344	1.156	1.053	1160.599
3691.0	3.967	7.029	10.016	0.263	0.869	0.868	1158.721
3693.0	3.637	10.390	9.772	0.343	1.154	1.052	1156.806
3695.0	4.588	8.956	11.757	0.281	0.906	0.899	880.010
3697.0	3.786	7.171	9.658	0.276	0.895	0.893	878.234
3699.0	3.691	7.099	9.437	0.278	0.902	0.901	876.431
3701.0	3.394	6.113	8.591	0.266	0.875	0.875	874.658
3703.0	3.926	6.331	10.180	0.296	0.941	0.940	872.842
3705.0	3.851	8.019	9.960	0.293	0.933	0.932	870.972
3707.0	4.084	8.383	10.540	0.290	0.928	0.927	813.323
3709.0	3.947	7.804	10.133	0.284	0.913	0.912	764.020
3711.0	3.907	7.382	9.963	0.275	0.892	0.884	686.896
3713.0	3.491	6.109	8.796	0.260	0.855	0.838	496.550
3715.0	3.719	5.805	9.193	0.236	0.808	0.800	488.021
3717.0	4.271	6.229	10.429	0.221	0.783	0.781	486.427
3719.0	3.841	5.654	9.395	0.223	0.772	0.758	484.893
3721.0	3.249	5.275	8.086	0.244	0.820	0.804	483.347
3723.0	3.638	6.321	9.158	0.259	0.850	0.832	439.417
3725.0	2.908	4.452	7.165	0.232	0.780	0.752	203.694
3727.0	2.149	3.753	5.413	0.260	0.849	0.775	274.209
3729.0	2.319	4.198	5.876	0.267	0.856	0.807	337.289
3731.0	2.107	3.570	5.282	0.253	0.826	0.770	259.234
3733.0	2.755	4.340	6.821	0.238	0.793	0.761	196.597
3735.0	1.890	2.899	4.657	0.232	0.777	0.727	103.133
3737.0	1.991	3.087	4.916	0.235	0.786	0.755	161.086
3739.0	2.003	3.321	5.003	0.249	0.823	0.752	193.935
3741.0	2.058	3.600	5.186	0.260	0.842	0.801	285.190
3743.0	2.440	3.314	5.877	0.204	0.726	0.707	53.327
3745.0	2.270	3.616	5.631	0.240	0.791	0.747	216.818
3747.0	3.619	6.035	9.049	0.250	0.837	0.829	406.702
3749.0	4.692	6.183	11.234	0.197	0.732	0.729	408.258
3751.0	3.453	6.825	8.864	0.284	0.913	0.910	824.837
3753.0	3.522	7.564	9.147	0.298	0.946	0.945	905.749
3755.0	3.883	8.594	10.140	0.306	0.972	0.961	923.649
3757.0	3.403	7.396	8.852	0.301	0.993	0.816	925.427
3759.0	1.818	3.980	4.733	0.302	0.960	0.937	927.192
3761.0	3.999	9.727	10.550	0.319	1.036	0.992	1100.495
3763.0	4.515	10.418	11.835	0.311	0.995	0.972	1102.457
3765.0	4.143	8.600	10.709	0.292	0.932	0.931	1104.353
3767.0	3.610	7.918	9.402	0.302	0.956	0.953	1106.262
3769.0	3.914	9.523	10.327	0.319	1.036	0.993	1108.192
3771.0	4.047	9.841	10.676	0.319	1.035	0.992	1112.968
3773.0	4.796	10.144	12.430	0.296	0.940	0.938	1114.880
3775.0	3.355	6.774	8.638	0.287	0.915	0.871	1116.675
3777.0	3.190	7.789	8.420	0.320	1.039	0.994	1118.554
3779.0	4.774	9.005	12.171	0.275	0.894	0.893	1120.386
3781.0	4.775	9.244	12.222	0.280	0.904	0.904	1122.189
3783.0	3.673	7.766	9.519	0.296	0.939	0.932	1124.016
3785.0	3.991	7.883	10.245	0.283	0.913	0.912	1125.873
3787.0	3.481	6.301	8.819	0.267	0.868	0.848	1127.621
3789.0	3.562	6.372	9.008	0.264	0.871	0.866	1129.330

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DEPTH (FEET)	SHEAR MODULUS (MODULUS UNITS ARE MILLION PSI)	BULK MODULUS (MODULUS UNITS ARE MILLION PSI)	YOUNG'S MODULUS (MODULUS UNITS ARE MILLION PSI)	POISSON'S RATIO	FRACTURE GRADIENT (PSI/FT)	CLOSURE GRADIENT (PSI/FT)	DIFF. PRESSURE (PSI/FT)
3791.0	4.959	9.530	12.678	0.278	0.901	0.899	1131.119
3793.0	3.682	7.834	9.549	0.297	0.941	0.924	1132.928
3795.0	3.264	5.967	8.281	0.269	0.880	0.877	1134.713
3797.0	3.975	8.367	10.296	0.295	0.938	0.937	1136.537
3799.0	4.400	10.045	11.518	0.309	0.987	0.968	1138.448
3801.0	4.310	9.550	11.239	0.304	0.964	0.957	1140.369
3803.0	3.535	14.382	9.802	0.386	1.390	1.169	1755.438
3805.0	3.750	12.382	10.220	0.362	1.255	1.102	1749.604
3807.0	3.148	8.328	8.386	0.332	1.099	1.008	1705.879
3809.0	3.226	9.485	8.694	0.347	1.172	1.043	1703.851
3811.0	3.136	9.958	8.514	0.357	1.218	1.039	1701.737
3813.0	2.763	6.342	7.238	0.310	1.003	0.917	1699.774
3815.0	3.200	8.530	8.533	0.333	1.104	0.961	1697.891
3817.0	2.894	5.117	7.304	0.262	0.853	0.785	1696.072
3819.0	2.255	4.945	5.872	0.302	0.958	0.948	1694.428
3821.0	4.211	13.982	11.480	0.363	1.259	1.104	1591.121
3823.0	5.552	10.140	14.086	0.268	0.881	0.880	1587.524
3825.0	5.169	11.577	13.497	0.306	0.973	0.961	1585.725
3827.0	4.939	8.596	12.434	0.259	0.861	0.861	1583.928
3829.0	3.621	8.510	9.513	0.314	1.010	0.979	1582.059
3831.0	4.655	9.004	11.911	0.280	0.904	0.903	1580.167
3833.0	4.323	11.114	11.480	0.328	1.077	1.013	1578.267
3835.0	4.458	10.012	11.645	0.306	0.975	0.962	1576.287
3837.0	5.343	3.205	13.432	0.257	0.857	0.857	1574.444
3839.0	5.464	12.189	14.262	0.305	0.972	0.952	1572.657
3841.0	5.269	8.614	13.130	0.246	0.836	0.835	1570.839
3843.0	4.484	10.515	11.779	0.313	1.008	0.978	1569.059
3845.0	4.532	12.034	12.080	0.333	1.101	1.018	1567.076
3847.0	4.583	11.166	12.095	0.319	1.037	0.993	1565.065
3849.0	3.973	10.839	10.529	0.325	1.064	1.007	1563.067
3851.0	5.210	8.901	13.078	0.255	0.852	0.848	1561.172
3853.0	4.652	6.666	11.322	0.217	0.781	0.781	1559.526
3855.0	4.418	10.220	11.586	0.311	0.997	0.973	1557.792
3857.0	4.587	10.015	11.938	0.301	0.953	0.951	1555.877
3859.0	3.477	8.030	9.116	0.311	0.996	0.973	1553.953
3861.0	3.756	8.839	9.870	0.314	1.011	0.980	1552.004
3863.0	3.498	9.668	9.365	0.339	1.130	1.040	1549.996
3865.0	3.663	9.791	9.764	0.334	1.106	1.028	1547.930
3867.0	3.587	8.926	9.489	0.323	1.053	1.001	1545.895
3869.0	3.731	8.271	9.729	0.304	0.965	0.957	1543.923
3871.0	3.446	8.362	9.088	0.319	1.034	0.992	1541.995
3873.0	4.017	9.361	10.543	0.312	1.003	0.976	1540.009
3875.0	4.422	10.604	11.648	0.317	1.025	0.987	1538.049
3877.0	4.202	11.081	11.192	0.332	1.096	1.022	1536.052
3879.0	4.242	9.574	11.088	0.307	0.979	0.964	1534.063
3881.0	3.813	9.952	10.142	0.330	1.088	1.019	1532.060
3883.0	4.302	9.477	11.209	0.303	0.960	0.954	1530.083
3885.0	4.021	7.872	10.307	0.282	0.909	0.908	1528.212
3887.0	4.335	6.382	11.093	0.279	0.904	0.903	1526.408
3889.0	5.311	11.299	13.775	0.297	0.942	0.941	1524.566
3891.0	4.157	8.587	10.738	0.292	0.930	0.925	1522.706

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3893.0	3.891	7.818	10.012	0.287	0.919	0.918	1520.859
3895.0	4.026	8.124	10.366	0.287	0.921	0.920	1519.010
3897.0	3.955	9.368	10.402	0.315	1.015	0.982	1517.145
3899.0	4.204	10.713	11.154	0.326	1.071	1.010	1515.156
3901.0	3.622	7.684	9.391	0.296	0.940	0.923	1513.201
3903.0	3.897	6.238	9.676	0.241	0.812	0.794	1511.437
3905.0	3.756	5.822	9.274	0.235	0.794	0.775	1509.862
3907.0	3.527	5.289	8.656	0.227	0.778	0.760	1508.326
3909.0	3.398	5.727	8.511	0.252	0.832	0.807	1506.778
3911.0	3.778	5.843	9.324	0.234	0.806	0.799	1505.166
3913.0	4.241	8.301	10.871	0.282	0.908	0.906	1503.481
3915.0	3.971	8.573	10.321	0.299	0.948	0.947	1501.643
3917.0	4.546	9.767	11.807	0.299	0.946	0.945	1499.736
3919.0	3.900	11.504	10.511	0.348	1.177	1.063	1497.766
3921.0	5.192	12.061	13.623	0.312	1.001	0.975	1494.254
3923.0	5.407	10.644	13.872	0.283	0.911	0.910	1492.391
3925.0	4.169	8.271	10.708	0.284	0.914	0.911	1490.529
3927.0	4.444	9.280	11.496	0.294	0.934	0.931	1488.693
3929.0	4.376	9.696	11.412	0.304	0.964	0.957	1486.824
3931.0	4.205	9.424	10.982	0.306	0.973	0.961	1484.908
3933.0	4.371	10.017	11.449	0.310	0.990	0.970	1482.975
3935.0	4.234	9.909	11.119	0.313	1.006	0.978	1481.045
3937.0	4.535	11.186	11.986	0.321	1.046	0.997	1479.070
3939.0	4.223	9.972	11.101	0.314	1.013	0.981	1477.094
3941.0	3.882	8.433	10.096	0.300	0.952	0.940	1475.146
3943.0	3.826	8.450	9.972	0.303	0.962	0.956	1473.253
3945.0	4.547	10.673	11.944	0.313	1.009	0.979	1471.337
3947.0	4.180	8.118	10.704	0.280	0.906	0.905	1469.438
3949.0	4.193	11.140	11.176	0.333	1.101	1.025	1467.519
3951.0	4.273	11.903	11.450	0.340	1.136	1.042	1455.275
3953.0	4.524	11.294	11.973	0.323	1.055	1.002	1322.194
3955.0	3.793	8.328	9.879	0.302	0.958	0.951	1320.220
3957.0	3.893	7.776	10.008	0.285	0.917	0.915	1318.360
3959.0	5.066	10.297	13.056	0.289	0.924	0.923	1316.528
3961.0	5.519	12.997	14.504	0.314	1.011	0.980	1314.636
3963.0	4.503	11.512	11.952	0.327	1.074	0.992	1312.660
3965.0	3.127	6.636	8.107	0.296	0.940	0.915	1310.734
3967.0	3.118	6.457	8.056	0.292	0.931	0.928	1308.891
3969.0	4.291	7.456	10.800	0.259	0.861	0.860	1307.087
3971.0	4.538	6.591	11.072	0.220	0.782	0.780	1305.435
3973.0	4.274	6.221	10.434	0.220	0.777	0.770	1303.886
3975.0	4.109	5.303	10.126	0.232	0.808	0.807	1302.311
3977.0	4.571	7.573	11.416	0.249	0.841	0.841	1300.671
3979.0	4.285	7.959	10.898	0.272	0.888	0.887	1298.951
3981.0	3.870	7.499	9.905	0.280	0.901	0.887	1297.154
3983.0	3.245	5.784	8.202	0.264	0.866	0.854	1295.425
3985.0	4.046	7.404	10.267	0.269	0.882	0.881	1293.690
3987.0	4.520	9.159	11.645	0.288	0.923	0.922	1291.894
3989.0	4.033	3.795	10.494	0.301	0.952	0.951	1290.023
3991.0	3.601	7.053	9.232	0.282	0.909	0.908	1288.171
3993.0	3.925	8.658	10.228	0.303	0.961	0.955	1286.311

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3995.0	3.727	8.011	9.680	0.299	0.946	0.945	1284.414
3997.0	4.507	9.454	11.667	0.294	0.936	0.935	1282.526
3999.0	4.520	9.510	11.706	0.295	0.938	0.936	1280.651
4001.0	4.197	8.810	10.865	0.294	0.937	0.936	1278.782
4003.0	3.721	7.317	9.545	0.283	0.907	0.889	1276.936
4005.0	3.575	6.416	9.044	0.265	0.869	0.858	1275.189
4007.0	3.706	6.585	9.361	0.263	0.865	0.854	1273.467
4009.0	3.691	6.612	9.335	0.265	0.870	0.862	1271.754
4011.0	3.965	7.431	10.099	0.273	0.891	0.890	1270.009
4013.0	4.045	7.871	10.360	0.281	0.907	0.906	1268.212
4015.0	4.068	7.538	10.344	0.271	0.887	0.885	1266.421
4017.0	4.150	8.344	10.679	0.287	0.920	0.919	1264.622
4019.0	4.183	8.224	10.729	0.283	0.911	0.910	1262.798
4021.0	3.928	8.801	10.259	0.306	0.973	0.961	1260.933
4023.0	3.924	9.361	10.328	0.316	1.021	0.985	1258.993
4025.0	3.952	9.856	10.458	0.323	1.054	1.002	1236.723
4027.0	4.606	9.888	11.961	0.298	0.946	0.944	1228.854
4029.0	5.319	11.400	13.810	0.298	0.945	0.944	1226.955
4031.0	5.170	10.277	13.282	0.285	0.913	0.900	1225.111
4033.0	3.287	7.306	3.574	0.304	0.992	0.870	1223.346
4035.0	3.074	6.569	7.977	0.298	0.944	0.943	1221.541
4037.0	3.586	7.596	9.295	0.296	0.940	0.936	1219.686
4039.0	3.822	7.875	9.870	0.291	0.929	0.928	1217.824
4041.0	3.394	7.117	3.785	0.294	0.936	0.926	1215.968
4043.0	3.313	6.618	8.518	0.285	0.917	0.913	1214.120
4045.0	3.562	7.489	9.225	0.295	0.937	0.936	1212.279
4047.0	3.752	7.376	9.624	0.283	0.910	0.906	1210.417
4049.0	3.234	7.896	8.537	0.320	1.038	0.994	1208.520
4051.0	4.611	9.415	11.892	0.289	0.926	0.925	1010.853
4053.0	5.399	10.372	13.803	0.278	0.901	0.899	991.512
4055.0	5.004	10.915	13.023	0.301	0.952	0.950	989.660
4057.0	4.169	7.038	10.445	0.253	0.835	0.813	521.239
4059.0	3.266	4.764	7.976	0.221	0.752	0.720	128.810
4061.0	2.398	3.377	5.816	0.213	0.743	0.722	123.841
4063.0	2.151	3.106	5.243	0.219	0.751	0.724	135.555
4065.0	2.097	2.910	5.072	0.209	0.736	0.715	98.208
4067.0	2.031	2.804	4.908	0.208	0.728	0.702	48.450
4069.0	1.837	2.680	4.485	0.221	0.759	0.735	186.214
4071.0	2.029	3.229	5.034	0.240	0.804	0.782	373.475
4073.0	2.047	3.492	5.137	0.255	0.837	0.811	499.748
4075.0	2.856	5.354	7.275	0.274	0.887	0.874	736.607
4077.0	4.942	9.773	12.688	0.284	0.913	0.910	838.524
4079.0	4.868	8.460	12.253	0.259	0.847	0.821	840.200
4081.0	3.305	5.887	8.351	0.264	0.869	0.866	841.879
4083.0	3.609	7.152	9.268	0.284	0.914	0.912	874.851
4085.0	3.729	6.732	9.444	0.266	0.875	0.873	876.627
4087.0	4.114	6.681	10.241	0.245	0.832	0.830	878.325
4089.0	4.017	6.638	10.029	0.248	0.839	0.837	879.988
4091.0	4.220	7.018	10.546	0.250	0.843	0.842	881.666
4093.0	3.912	7.260	9.948	0.272	0.883	0.870	883.388
4095.0	2.915	5.605	7.452	0.278	0.889	0.847	885.092

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4097.0	3.149	5.313	7.889	0.253	0.842	0.832	886.760
4099.0	4.062	7.115	10.237	0.260	0.864	0.864	888.471
4101.0	4.328	8.094	11.021	0.273	0.891	0.890	890.227
4103.0	4.281	8.623	11.019	0.287	0.920	0.919	966.128
4105.0	3.537	7.245	9.125	0.290	0.926	0.916	980.621
4107.0	3.362	6.186	8.540	0.270	0.883	0.881	982.402
4109.0	4.106	7.139	10.336	0.259	0.861	0.860	984.138
4111.0	3.731	7.051	9.516	0.275	0.893	0.885	985.894
4113.0	3.390	5.223	8.608	0.269	0.877	0.863	987.630
4115.0	3.726	6.079	9.282	0.246	0.831	0.825	989.308
4117.0	3.737	5.904	9.259	0.239	0.821	0.820	990.947
4119.0	3.672	7.018	9.380	0.277	0.896	0.884	992.670
4121.0	3.355	5.882	8.458	0.260	0.864	0.864	994.415
4123.0	4.241	8.559	10.919	0.287	0.921	0.920	996.222
4125.0	4.453	9.207	11.505	0.292	0.931	0.930	1030.172
4127.0	4.628	9.501	11.945	0.290	0.928	0.927	1032.024
4129.0	4.239	8.547	10.914	0.287	0.921	0.920	1033.871
4131.0	5.176	10.013	13.246	0.280	0.904	0.902	1035.684
4133.0	5.192	11.580	13.552	0.305	0.975	0.937	1094.284
4135.0	4.142	9.924	10.908	0.317	1.024	0.987	1294.482
4137.0	3.915	9.607	10.341	0.321	1.042	0.996	1332.814
4139.0	4.245	10.202	11.184	0.317	1.027	0.984	1334.789
4141.0	5.354	10.605	13.748	0.284	0.914	0.913	1336.666
4143.0	5.351	10.932	13.801	0.290	0.926	0.922	1338.500
4145.0	4.846	9.797	12.481	0.288	0.922	0.921	1340.357
4147.0	4.769	9.404	12.237	0.283	0.912	0.911	1342.182
4149.0	5.447	10.774	13.984	0.284	0.913	0.910	1344.001
4151.0	5.433	10.320	13.866	0.276	0.897	0.895	1345.799
4153.0	5.567	10.875	14.267	0.281	0.908	0.905	1347.602
4155.0	5.502	10.799	14.110	0.282	0.910	0.909	1349.415
4157.0	5.507	11.118	14.181	0.287	0.921	0.920	1351.249
4159.0	5.402	11.072	13.939	0.290	0.927	0.926	1353.099
4161.0	5.191	11.139	13.480	0.298	0.945	0.941	1354.965
4163.0	4.099	7.804	10.465	0.277	0.897	0.894	1356.785
4165.0	4.633	9.441	11.946	0.289	0.922	0.902	1358.577
4167.0	2.616	6.540	5.924	0.324	1.064	0.919	1360.406
4169.0	3.655	6.431	9.218	0.261	0.859	0.845	1362.160
4171.0	5.076	9.079	12.837	0.264	0.872	0.871	1363.865
4173.0	5.445	10.315	13.892	0.276	0.896	0.895	1365.641
4175.0	5.656	10.592	14.403	0.273	0.891	0.890	1367.429
4177.0	5.323	10.646	13.687	0.286	0.918	0.916	1369.233
4179.0	4.910	9.958	12.650	0.288	0.920	0.901	1371.053
4181.0	3.973	7.672	10.165	0.279	0.900	0.887	1372.847
4183.0	3.520	6.898	9.025	0.282	0.905	0.885	1374.607
4185.0	3.545	6.337	8.963	0.264	0.865	0.849	1376.344
4187.0	4.449	7.478	11.138	0.252	0.843	0.836	1378.013
4189.0	4.232	7.174	10.610	0.254	0.836	0.813	1379.661
4191.0	3.745	6.420	9.405	0.256	0.851	0.844	1381.321
4193.0	3.753	6.428	9.424	0.256	0.850	0.843	1383.003
4195.0	3.888	6.415	9.704	0.248	0.832	0.822	1384.672
4197.0	3.822	6.988	9.697	0.269	0.871	0.847	1386.334

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DEPTH (FEET)	SHEAR MODULUS (MODULUS UNITS ARE MILLION PSI)	BULK MODULUS (MODULUS UNITS ARE MILLION PSI)	YOUNG'S MODULUS (MODULUS UNITS ARE MILLION PSI)	POISSON'S RATIO	FRACTURE GRADIENT (PSI/FT)	CLOSURE GRADIENT (PSI/FT)	DIFF. PRESSURE (PSI/FT)
4199.0	4.369	7.621	11.004	0.259	0.857	0.847	1388.044
4201.0	4.377	7.884	11.080	0.266	0.871	0.862	1389.754
4203.0	4.605	7.844	11.554	0.255	0.846	0.837	1391.444
4205.0	4.328	7.976	10.995	0.270	0.884	0.881	1393.154
4207.0	4.938	9.063	12.536	0.269	0.883	0.882	1394.924
4209.0	5.072	10.502	13.106	0.292	0.931	0.926	1396.759
4211.0	5.091	10.752	13.191	0.296	0.939	0.938	1398.631
4213.0	5.510	11.245	14.209	0.289	0.926	0.924	1400.488
4215.0	5.402	11.440	14.003	0.296	0.940	0.939	1402.352
4217.0	5.585	11.583	14.436	0.292	0.932	0.931	1404.217
4219.0	5.408	10.659	13.877	0.283	0.912	0.910	1406.066
4221.0	5.403	10.343	13.806	0.278	0.899	0.895	1407.867
4223.0	5.406	11.121	13.956	0.291	0.929	0.928	1409.685
4225.0	5.125	10.570	13.236	0.291	0.930	0.929	1411.524
4227.0	5.376	10.458	13.768	0.281	0.903	0.888	1413.362
4229.0	4.332	9.485	11.278	0.302	0.955	0.952	1415.199
4231.0	5.596	11.133	14.379	0.285	0.915	0.914	1417.062
4233.0	5.419	10.985	13.962	0.288	0.922	0.917	1418.893
4235.0	5.226	10.563	13.458	0.288	0.921	0.917	1420.723
4237.0	5.298	10.979	13.691	0.292	0.930	0.917	1422.556
4239.0	4.964	9.877	12.754	0.285	0.915	0.911	1424.385
4241.0	4.796	9.217	12.261	0.278	0.897	0.882	1426.174
4243.0	4.281	7.666	10.828	0.265	0.864	0.844	1425.291
4245.0	4.359	7.977	11.061	0.269	0.873	0.850	1423.599
4247.0	3.931	7.506	10.041	0.277	0.890	0.860	1421.869
4249.0	4.008	5.767	9.763	0.218	0.761	0.747	1420.254
4251.0	4.024	6.275	9.946	0.236	0.804	0.792	1418.723
4253.0	4.120	10.247	10.899	0.323	1.053	0.990	1417.008
4255.0	5.155	11.840	13.506	0.310	0.993	0.964	1254.664
4257.0	5.187	10.849	13.422	0.294	0.935	0.930	1168.066
4259.0	5.287	11.509	13.755	0.301	0.951	0.950	1166.194
4261.0	5.338	11.421	13.856	0.298	0.944	0.943	1164.303
4263.0	5.339	11.394	13.854	0.297	0.943	0.941	1162.416
4265.0	5.337	11.378	13.847	0.297	0.943	0.941	1160.534
4267.0	5.497	11.959	14.301	0.301	0.951	0.949	1158.645
4269.0	5.502	11.885	14.300	0.299	0.948	0.947	1156.750
4271.0	5.479	11.857	14.243	0.300	0.949	0.947	1154.859
4273.0	5.599	12.244	14.575	0.302	0.954	0.951	1152.963
4275.0	5.249	11.440	13.658	0.301	0.961	0.921	1035.607
4277.0	4.280	8.373	10.972	0.282	0.904	0.884	943.396
4279.0	4.386	7.859	11.094	0.265	0.869	0.858	941.650
4281.0	4.914	9.386	12.552	0.277	0.899	0.898	939.904
4283.0	4.625	9.773	11.984	0.296	0.955	0.866	790.879
4285.0	2.110	3.785	5.338	0.265	0.853	0.807	488.668
4287.0	2.401	3.235	5.775	0.202	0.744	0.740	319.103
4289.0	4.556	7.817	11.444	0.256	0.851	0.845	692.166
4291.0	5.073	9.756	12.971	0.278	0.901	0.895	936.453
4293.0	5.287	10.213	13.528	0.279	0.903	0.902	945.619
4295.0	5.706	11.417	14.674	0.286	0.915	0.899	947.416
4297.0	4.004	8.499	10.381	0.296	0.947	0.898	949.212
4299.0	4.190	8.234	10.746	0.282	0.909	0.904	973.257

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DEPTH	SHEAR MODULUS	BULK MODULUS	YOUNG'S MODULUS	POISSON'S RATIO	FRACTURE GRADIENT	CLOSURE GRADIENT	DIFF. PRESSURE
(FEET)	(MODULUS	MODULUS	MODULUS		(PSI/FT)	(PSI/FT)	(PSI/FT)
	UNITS ARE MILLION PSI)						
4301.0	5.220	9.890	13.317	0.276	0.896	0.895	975.058
4303.0	5.431	11.051	13.999	0.289	0.924	0.923	1031.001
4305.0	5.171	10.183	13.268	0.283	0.910	0.904	1042.482
4307.0	4.860	9.212	12.399	0.276	0.891	0.873	1044.253
4309.0	5.017	9.048	12.704	0.266	0.876	0.875	1046.001
4311.0	5.447	11.490	14.110	0.295	0.939	0.937	1100.293
4313.0	5.389	11.224	13.936	0.293	0.933	0.930	1125.394
4315.0	4.997	9.741	12.801	0.281	0.903	0.887	1127.201
4317.0	4.644	8.536	11.794	0.270	0.881	0.876	1128.962
4319.0	5.153	9.552	13.102	0.271	0.886	0.884	1130.719
4321.0	5.302	10.906	13.688	0.291	0.929	0.927	1132.539
4323.0	5.392	10.662	13.843	0.284	0.913	0.912	1134.375
4325.0	5.491	11.196	14.158	0.289	0.925	0.923	1136.216
4327.0	5.453	11.529	14.131	0.296	0.939	0.934	1138.081
4329.0	5.402	11.369	13.991	0.295	0.938	0.936	1139.945
4331.0	5.535	11.118	14.242	0.286	0.919	0.918	1141.799
4333.0	5.297	10.864	13.668	0.290	0.926	0.916	1143.634
4335.0	4.724	8.794	12.021	0.272	0.882	0.862	1145.399
4337.0	4.981	8.862	12.585	0.263	0.870	0.870	1147.136
4339.0	5.307	9.722	13.470	0.269	0.882	0.881	1148.889
4341.0	5.342	10.164	13.636	0.276	0.897	0.897	1150.670
4343.0	5.166	9.724	13.167	0.274	0.893	0.892	1152.459
4345.0	4.978	8.735	12.550	0.261	0.862	0.855	1152.541
4347.0	4.808	8.447	12.123	0.261	0.862	0.855	1150.823
4349.0	4.419	7.387	11.053	0.251	0.838	0.828	1149.133
4351.0	4.223	6.671	10.462	0.239	0.810	0.798	1147.504
4353.0	4.786	8.119	12.001	0.254	0.849	0.846	1145.868
4355.0	5.527	11.055	14.213	0.286	0.917	0.916	1144.128
4357.0	5.528	11.162	14.233	0.287	0.921	0.920	1142.294
4359.0	5.558	10.731	14.220	0.279	0.903	0.902	1140.462
4361.0	5.385	9.882	13.672	0.269	0.883	0.881	1138.671
4363.0	5.308	9.043	13.318	0.255	0.853	0.852	1136.927
4365.0	5.534	9.955	14.007	0.266	0.875	0.874	1135.214
4367.0	5.331	10.283	13.637	0.279	0.901	0.891	1133.443
4369.0	5.003	9.020	12.667	0.266	0.872	0.863	1131.692
4371.0	5.168	9.975	13.221	0.279	0.902	0.895	1129.941
4373.0	5.283	10.925	13.650	0.292	0.931	0.928	1128.127
4375.0	5.530	11.517	14.300	0.293	0.934	0.931	1125.995
4377.0	5.659	11.187	14.528	0.284	0.913	0.912	1063.817
4379.0	5.411	10.361	13.826	0.278	0.900	0.898	1062.002
4381.0	5.213	9.444	13.209	0.267	0.877	0.876	1060.223
4383.0	5.633	9.655	14.148	0.256	0.855	0.854	1058.485
4385.0	5.150	8.194	12.775	0.240	0.820	0.816	1056.797
4387.0	4.780	6.392	11.478	0.201	0.750	0.749	1055.227
4389.0	4.949	8.003	12.310	0.244	0.822	0.812	1053.675
4391.0	4.522	6.904	11.135	0.231	0.799	0.792	1052.057
4393.0	5.167	7.588	12.634	0.223	0.791	0.790	1050.494
4395.0	5.643	11.442	14.539	0.288	0.923	0.920	1048.805
4397.0	5.478	10.948	14.085	0.286	0.914	0.897	988.984
4399.0	5.226	10.104	13.373	0.279	0.902	0.895	982.339
4401.0	5.149	10.182	13.218	0.284	0.909	0.889	980.552

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DEPTH (FEET)	SHEAR MODULUS (MODULUS UNITS ARE MILLION PSI)	BJLK MODULUS (MODULUS UNITS ARE MILLION PSI)	YOUNG'S MODULUS (MODULUS UNITS ARE MILLION PSI)	POISSON'S RATIO	FRACTURE GRADIENT (PSI/FT)	CLOSURE GRADIENT (PSI/FT)	DIFF. PRESSURE (PSI/FT)
4403.0	5.055	9.466	12.874	0.273	0.890	0.886	978.777
4405.0	5.481	10.493	14.004	0.278	0.900	0.899	975.470
4407.0	5.574	10.680	14.243	0.278	0.899	0.892	926.905
4409.0	5.020	9.338	12.771	0.272	0.877	0.847	744.578
4411.0	4.216	6.944	10.519	0.248	0.817	0.786	497.981
4413.0	3.411	5.218	8.403	0.232	0.779	0.749	356.930
4415.0	2.728	4.971	6.919	0.268	0.862	0.808	506.031
4417.0	3.334	4.378	7.978	0.196	0.735	0.733	383.293
4419.0	5.112	8.149	12.684	0.241	0.816	0.806	522.571
4421.0	5.126	8.793	12.877	0.256	0.851	0.843	728.618
4423.0	5.329	9.550	13.480	0.265	0.873	0.872	874.125
4425.0	5.814	11.113	14.853	0.277	0.899	0.895	971.720
4427.0	5.138	10.046	13.170	0.282	0.905	0.890	973.502
4429.0	4.971	9.319	12.662	0.274	0.889	0.882	975.265
4431.0	4.864	9.867	12.533	0.288	0.921	0.906	994.388
4433.0	4.751	8.671	12.053	0.268	0.876	0.864	996.146
4435.0	5.224	9.281	13.196	0.263	0.869	0.867	997.870
4437.0	5.570	10.634	14.225	0.277	0.897	0.892	999.638
4439.0	5.016	9.649	12.825	0.278	0.898	0.883	1001.409
4441.0	4.981	10.054	12.825	0.287	0.918	0.901	1012.880
4443.0	4.950	9.808	12.712	0.284	0.913	0.906	1013.793
4445.0	4.840	9.442	12.401	0.281	0.906	0.868	871.912
4447.0	3.811	6.489	9.562	0.254	0.840	0.819	852.247
4449.0	3.731	7.206	9.545	0.279	0.894	0.839	850.633
4451.0	3.406	6.574	8.714	0.279	0.897	0.872	838.966
4453.0	4.608	7.952	11.586	0.257	0.854	0.846	800.554
4455.0	5.110	9.233	12.942	0.266	0.867	0.846	722.834
4457.0	3.346	5.396	8.319	0.243	0.803	0.767	451.711
4459.0	3.061	4.825	7.581	0.238	0.795	0.765	369.363
4461.0	2.786	4.515	5.932	0.244	0.804	0.767	373.466
4463.0	2.489	3.848	5.143	0.234	0.788	0.764	395.314
4465.0	3.028	4.720	7.484	0.236	0.790	0.761	387.117
4467.0	3.040	4.878	7.552	0.242	0.810	0.790	521.812
4469.0	4.649	8.081	11.703	0.259	0.858	0.852	769.884
4471.0	5.270	9.721	13.390	0.270	0.875	0.848	742.329
4473.0	4.142	6.252	10.178	0.229	0.784	0.769	735.419
4475.0	4.156	7.356	10.491	0.262	0.854	0.827	733.837
4477.0	2.865	5.402	7.305	0.275	0.878	0.829	691.827
4479.0	2.744	4.073	6.721	0.225	0.769	0.747	357.702
4481.0	3.090	4.560	7.561	0.224	0.769	0.751	349.713
4483.0	3.782	5.882	9.344	0.235	0.799	0.784	465.306
4485.0	3.451	5.289	6.503	0.232	0.790	0.772	466.848
4487.0	4.009	5.960	9.824	0.225	0.783	0.773	468.399
4489.0	5.216	9.215	13.164	0.262	0.864	0.857	798.731
4491.0	4.991	10.646	12.950	0.297	0.943	0.937	1168.185
4493.0	5.357	11.632	13.932	0.300	0.950	0.949	1248.202
4495.0	5.464	11.946	14.224	0.302	0.954	0.951	1250.100
4497.0	5.494	11.628	14.239	0.296	0.940	0.936	1251.982
4499.0	5.521	12.407	14.423	0.306	0.976	0.959	1253.872
4501.0	5.869	11.321	15.014	0.279	0.902	0.899	1255.729
4503.0	5.788	11.205	14.813	0.280	0.904	0.900	1257.522

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DEPTH	SHEAR MODULUS	BULK MODULUS	YOUNG'S MODULUS	POISSON'S RATIO	FRACTURE GRADIENT	CLOSURE GRADIENT	DIFF. PRESSURE
(FEET)	(MODULUS	UNITS ARE	MILLION PSI)		(PSI/FT)	(PSI/FT)	(PSI/FT)
4505.0	5.785	11.319	14.830	0.282	0.909	0.908	1259.334
4507.0	5.960	11.119	15.170	0.273	0.890	0.889	1261.131
4509.0	5.783	11.017	14.766	0.277	0.897	0.892	1262.911
4511.0	5.468	11.041	14.080	0.287	0.921	0.915	1264.715
4513.0	5.670	12.041	14.703	0.296	0.941	0.940	1264.295
4515.0	5.469	12.042	14.250	0.303	0.959	0.954	1262.402
4517.0	5.295	11.086	13.704	0.294	0.935	0.931	1197.011
4519.0	5.418	11.439	14.038	0.295	0.939	0.932	1185.160
4521.0	5.149	9.998	13.183	0.280	0.903	0.891	1183.330
4523.0	5.296	10.267	13.556	0.280	0.905	0.903	1181.543
4525.0	5.833	11.957	15.052	0.290	0.927	0.926	1179.710
4527.0	5.845	12.435	15.161	0.297	0.942	0.941	1174.157
4529.0	5.942	11.517	15.210	0.280	0.904	0.902	1034.610
4531.0	5.507	10.119	13.984	0.270	0.880	0.872	904.003
4533.0	4.313	8.133	10.995	0.275	0.883	0.822	627.282
4535.0	3.819	4.944	9.111	0.193	0.714	0.705	163.042
4537.0	3.596	4.421	8.487	0.180	0.692	0.687	144.960
4539.0	3.788	6.414	9.495	0.253	0.829	0.796	495.594
4541.0	3.969	5.827	9.704	0.222	0.765	0.744	376.013
4543.0	3.940	7.786	10.114	0.283	0.908	0.849	767.583
4545.0	3.915	8.676	10.210	0.304	0.976	0.917	1036.632
4547.0	4.486	8.602	11.465	0.278	0.897	0.884	1038.375
4549.0	4.825	11.321	12.673	0.313	1.009	0.975	1441.222
4551.0	5.776	12.408	15.000	0.299	0.946	0.944	1443.120
4553.0	5.654	12.534	14.746	0.304	0.965	0.956	1445.021
4555.0	5.802	12.533	15.080	0.299	0.948	0.942	1446.912
4557.0	6.015	12.059	15.471	0.286	0.918	0.917	1448.773
4559.0	6.047	12.036	15.539	0.285	0.915	0.914	1450.598
4561.0	5.502	13.109	14.481	0.316	1.020	0.981	1452.521
4563.0	5.870	12.790	15.273	0.301	0.951	0.950	1454.438
4565.0	5.928	13.333	15.489	0.306	0.976	0.962	1456.358
4567.0	5.908	12.628	15.333	0.298	0.944	0.942	1458.257
4569.0	5.829	12.216	15.088	0.294	0.936	0.935	1460.135
4571.0	5.778	12.417	15.006	0.299	0.946	0.945	1462.014
4573.0	5.825	12.451	15.118	0.298	0.944	0.942	1463.900
4575.0	5.654	12.390	14.724	0.302	0.956	0.952	1465.794
4577.0	5.480	12.371	14.324	0.307	0.980	0.957	1467.710
4579.0	5.049	11.640	13.234	0.311	0.996	0.965	1469.623
4581.0	5.562	12.565	14.541	0.307	0.980	0.963	1471.557
4583.0	5.278	11.862	13.788	0.306	0.980	0.945	1473.462
4585.0	4.901	10.426	12.711	0.297	0.942	0.933	1475.344
4587.0	5.935	11.785	15.247	0.284	0.913	0.905	1477.171
4589.0	5.453	10.590	13.962	0.280	0.906	0.905	1478.982
4591.0	5.662	12.498	14.757	0.303	0.966	0.940	1480.836
4593.0	4.775	11.138	12.535	0.312	1.006	0.963	1482.749
4595.0	5.053	11.486	13.220	0.308	0.986	0.958	1484.662
4597.0	5.478	12.137	14.286	0.304	0.964	0.956	1486.585
4599.0	5.483	11.033	14.112	0.287	0.920	0.919	1488.460
4601.0	5.386	11.534	13.981	0.298	0.944	0.933	1490.293
4603.0	5.499	12.266	14.353	0.305	0.971	0.954	1492.181
4605.0	5.414	11.815	14.089	0.301	0.956	0.939	1494.071

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DEPTH (FEET)	SHEAR MODULUS (MODULUS UNITS ARE MILLION PSI)	BULK MODULUS (MODULUS UNITS ARE MILLION PSI)	YOUNG'S MODULUS (MODULUS UNITS ARE MILLION PSI)	POISSON'S RATIO	FRACTURE GRADIENT (PSI/FT)	CLOSURE GRADIENT (PSI/FT)	DIFF. PRESSURE (PSI/FT)
4607.0	4.756	9.761	12.274	0.290	0.924	0.900	1495.911
4609.0	5.113	11.321	13.333	0.304	0.968	0.941	1497.753
4611.0	5.567	12.307	14.514	0.303	0.965	0.947	1499.639
4613.0	5.943	12.773	15.435	0.299	0.946	0.940	1501.526
4615.0	5.768	12.878	15.055	0.305	0.971	0.955	1503.428
4617.0	5.541	12.666	14.507	0.309	0.992	0.953	1505.335
4619.0	4.930	10.931	12.857	0.304	0.971	0.934	1507.216
4621.0	4.784	12.695	12.751	0.333	1.101	0.975	1509.135
4623.0	3.611	9.877	9.656	0.337	1.121	0.985	1511.083
4625.0	3.819	8.216	9.920	0.299	0.959	0.895	1512.964
4627.0	3.078	6.449	7.966	0.294	0.955	0.849	1514.712
4629.0	2.682	3.978	6.569	0.225	0.765	0.737	1516.246
4631.0	3.392	4.592	8.165	0.204	0.735	0.725	1517.697
4633.0	3.806	4.732	9.005	0.183	0.705	0.703	1519.141
4635.0	3.882	7.314	9.896	0.275	0.881	0.845	1520.760
4637.0	4.938	10.132	12.743	0.290	0.925	0.906	1522.503
4639.0	5.460	9.797	13.814	0.265	0.869	0.859	1524.272
4641.0	5.798	8.489	14.169	0.222	0.788	0.786	1525.918
4643.0	5.069	11.153	13.207	0.303	0.966	0.931	1527.662
4645.0	5.145	10.109	13.197	0.282	0.909	0.903	1529.497
4647.0	5.064	10.739	13.128	0.296	0.939	0.921	1531.332
4649.0	4.903	10.157	12.670	0.292	0.929	0.911	1533.145
4651.0	5.460	13.636	14.450	0.323	1.056	1.001	1580.593
4653.0	4.955	11.088	12.937	0.306	0.975	0.949	1592.320
4655.0	5.608	11.987	14.554	0.298	0.944	0.940	1594.188
4657.0	6.509	9.844	16.001	0.229	0.801	0.798	1595.893
4659.0	5.360	11.357	13.895	0.296	0.940	0.939	1597.683
4661.0	5.852	12.291	15.152	0.295	0.937	0.936	1599.557
4663.0	5.411	10.603	13.872	0.282	0.908	0.902	1601.386
4665.0	5.641	11.790	14.595	0.294	0.935	0.934	1603.226
4667.0	5.861	13.281	15.328	0.308	0.982	0.965	1605.131
4669.0	5.772	12.920	15.071	0.306	0.972	0.959	1607.059
4671.0	4.560	11.541	12.087	0.325	1.066	0.975	1608.980
4673.0	5.526	10.943	14.189	0.284	0.913	0.908	1610.878
4675.0	5.995	12.745	15.547	0.297	0.941	0.934	1612.704
4677.0	8.209	9.040	18.904	0.151	0.672	0.673	1614.300
4679.0	6.535	8.855	15.734	0.204	0.755	0.754	1615.666
4681.0	4.415	8.791	11.345	0.285	0.911	0.889	1617.386
4683.0	5.665	11.892	14.666	0.294	0.936	0.928	1619.217
4685.0	5.680	7.767	13.701	0.206	0.761	0.760	1620.882
4687.0	5.314	11.351	13.791	0.298	0.943	0.933	1622.627
4689.0	5.379	11.567	13.972	0.299	0.946	0.938	1624.500
4691.0	5.318	12.477	13.970	0.313	1.009	0.973	1626.402
4693.0	4.943	9.608	12.659	0.280	0.906	0.905	1628.245
4695.0	4.943	10.030	12.737	0.288	0.922	0.915	1630.058
4697.0	5.839	12.482	15.153	0.298	0.944	0.943	1631.908
4699.0	4.777	10.652	12.467	0.305	0.969	0.959	1633.840
4701.0	5.748	12.031	14.876	0.294	0.936	0.934	1635.701
4703.0	6.647	12.756	16.991	0.278	0.898	0.888	1637.504
4705.0	7.146	14.830	18.471	0.292	0.932	0.931	1639.322
4707.0	4.993	10.254	12.888	0.291	0.928	0.927	1641.191

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DEPTH	SHEAR MODULUS	BULK MODULUS	YOUNG'S MODULUS	POISSON'S RATIO	FRACTURE GRADIENT	CLOSURE GRADIENT	DIFF. PRESSURE
(FEET)	(MODULUS	UNITS ARE	MILLION PSI)		(PSI/FT)	(PSI/FT)	(PSI/FT)
4709.0	4.568	9.565	12.704	0.279	0.902	0.901	1643.010
4711.0	6.566	12.447	16.752	0.276	0.895	0.889	1644.799
4713.0	5.543	10.873	14.213	0.282	0.909	0.903	1646.586
4715.0	5.212	10.713	13.455	0.291	0.928	0.921	1648.417
4717.0	17.289	31.668	43.881	0.269	0.863	0.816	1650.166
4719.0	5.084	10.077	13.057	0.284	0.908	0.881	1651.874
4721.0	5.622	13.228	14.774	0.314	1.010	0.979	1653.738
4723.0	5.146	12.681	13.598	0.321	1.056	0.906	1655.617
4725.0	4.968	12.045	13.102	0.319	1.038	0.956	1657.482
4727.0	5.009	13.060	13.325	0.330	1.089	0.995	1745.046
4729.0	5.520	12.611	14.452	0.309	0.994	0.942	1746.972
4731.0	5.776	11.247	14.795	0.281	0.906	0.903	1748.812
4733.0	5.699	12.126	14.781	0.297	0.942	0.939	1750.660
4735.0	5.618	12.044	14.587	0.298	0.945	0.943	1752.540
4737.0	5.767	13.110	15.089	0.308	0.984	0.966	1754.442
4739.0	5.428	11.846	14.127	0.301	0.954	0.946	1756.370
4741.0	5.484	12.980	14.420	0.315	1.015	0.980	1758.297
4743.0	5.537	14.668	14.754	0.332	1.099	1.021	1811.452
4745.0	5.477	13.499	14.473	0.321	1.046	0.997	1827.282
4747.0	5.904	13.938	15.520	0.314	1.013	0.981	1829.255
4749.0	5.535	12.259	14.432	0.304	0.965	0.954	1831.190
4751.0	6.209	14.477	16.296	0.312	1.004	0.973	1833.131
4753.0	5.787	13.308	15.163	0.310	0.993	0.971	1835.065
4755.0	5.715	12.749	14.917	0.305	0.970	0.957	1836.992
4757.0	5.774	12.168	14.955	0.295	0.938	0.937	1838.885
4759.0	5.240	11.079	13.580	0.296	0.939	0.931	1840.740
4761.0	5.490	12.394	14.350	0.307	0.981	0.955	1842.631
4763.0	5.390	11.625	14.005	0.299	0.955	0.912	1844.493
4765.0	5.156	11.381	13.438	0.303	0.974	0.911	1846.277
4767.0	5.471	12.649	14.345	0.311	0.999	0.964	1848.173
4769.0	5.336	11.266	13.826	0.295	0.938	0.927	1850.063
4771.0	5.771	13.061	15.090	0.307	0.982	0.959	1851.948
4773.0	6.103	12.100	15.673	0.284	0.914	0.912	1853.809
4775.0	5.644	12.333	14.690	0.301	0.954	0.951	1855.669
4777.0	5.348	11.059	13.818	0.292	0.927	0.901	1857.517
4779.0	6.042	15.315	16.019	0.326	1.067	1.007	1859.462
4781.0	6.230	10.336	15.562	0.249	0.842	0.841	1861.276
4783.0	5.779	11.757	14.897	0.289	0.924	0.923	1863.022
4785.0	5.445	9.464	13.706	0.259	0.861	0.860	1864.828
4787.0	5.189	12.325	13.651	0.315	1.018	0.983	1866.697
4789.0	4.727	9.691	12.197	0.290	0.925	0.906	1868.589
4791.0	3.632	7.705	9.417	0.296	0.958	0.867	1870.306
4793.0	3.833	7.982	9.913	0.293	0.944	0.864	1872.054
4795.0	4.957	10.556	12.857	0.297	0.951	0.893	1635.171
4797.0	4.931	12.217	13.039	0.322	1.054	0.955	1633.350
4799.0	4.866	16.339	13.281	0.365	1.237	0.994	1631.427
4801.0	4.851	16.487	13.252	0.366	1.244	0.996	1629.446
4803.0	4.942	16.687	13.494	0.365	1.243	1.007	1627.431
4805.0	4.914	18.196	13.525	0.376	1.288	1.013	1625.417

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