

Core Inventory
Spectral Gamma 1000

Company:	Apache
Well Name:	University 57-65 #1H
Location:	276' FSL & 330' FWL
County, State:	Schleicher Co., Tx

Field:	Holt Ranch
Formation:	Dean / Wolfcamp
Coring Fluid:	WBM
Elevation:	2509' GL / 2537.6' KB

File Number: HOU-121499 / 57181-20193
Date: 02/14/2013
API Number: 42-413-32866
Core Inventory

[illegible]



Gamma Data

Company: Apache	Field: Holt Ranch	File Number: HOU-12149
Well Name: University 57-65 #1H	Formation: Dean / Wolfcamp	Date: 02/14/2013
Location: 276' FSL & 330' FWL	Coring Fluid: WBM	API Number: 42-413-3281
Co. & St.: Schleicher Co., Tx	Elevation: 2509' GL / 2537.6' KB	Tube Inventory: 0

Depth	Kfraction	Uppm	THppm	TotalGamma	APIFreeGamma	Core #
4973.17	0.0177	9.31	8.59	102.61	79.25	1
4973.33	0.0172	10.34	8.65	104.13	73.98	1
4973.5	0.0184	11.14	7.47	104.73	69.31	1
4973.67	0.0191	11.97	6.19	103.52	62.65	1
4973.83	0.0197	12.11	7.17	104.49	62.65	1
4974	0.0204	12.05	7.08	106.79	65.37	1
4974.17	0.0212	11.9	6.74	107.41	66.95	1
4974.33	0.0225	12.05	7.87	112.82	71.32	1
4974.5	0.0226	11.94	8.73	115.99	75.19	1
4974.67	0.0226	12.79	8.07	119.05	72.58	1
4974.83	0.0214	14.56	6.71	120.8	62.65	1
4975	0.0203	13.98	8.17	121.44	67.11	1
4975.17	0.0209	14.05	9.02	119.72	64.94	1
4975.33	0.0195	14.55	8.38	120.33	62.28	1
4975.5	0.0196	14.08	8.15	119.38	64.42	1
4975.67	0.0187	14.04	7.91	119.39	64.69	1
4975.83	0.0192	11.88	10.37	119.62	79.15	1
4976	0.0193	11.42	9.86	118.63	81.2	1
4976.17	0.0191	10.73	11.34	115.77	82.9	1
4976.33	0.019	10.14	13.11	116.46	87.51	1
4976.5	0.0165	9.7	12.85	114.55	88.48	1
4976.67	0.0166	9.93	12.34	110.65	83.1	1
4976.83	0.0172	9.67	10.67	109.07	83.24	1
4977	0.0173	7.82	11.33	107.54	93.93	1
4977.17	0.0185	9.05	10.36	106.24	84.55	1
4977.33	0.0186	8.85	10.95	108.02	87.62	1
4977.5	0.0183	8.93	12.07	108.88	87.98	1
4977.67	0.0195	7.85	13.99	109.82	95.97	1
4977.83	0.0209	8.07	14.5	113.3	97.99	1
4978	0.0206	9.41	13.22	117.16	92.97	1
4978.17	0.0199	10.36	13.11	121.12	90.64	1
4978.33	0.0201	11.34	11.02	124	87.05	1
4978.5	0.0185	12.36	9.54	124.31	80.61	1
4978.67	0.0219	11.94	9.61	125.43	84.49	1
4978.83	0.0234	12.11	8.4	127.98	85.95	1

4979	0.0222	12.27	10.35	127.87	84.76	1
4979.17	0.023	12.48	8.93	127	82.54	1
4979.33	0.0243	11.9	8.72	127.99	87.31	1
4979.5	0.0222	12.69	9.83	126.06	80.19	1
4979.67	0.0268	11.63	8.58	127.08	88.2	1
4979.67	0.0268	11.63	8.58	127.08	88.2	1
4979.83	0.0261	12.69	6.94	128.41	82.51	1
4980	0.0251	11.82	8.73	124.52	84.38	1
4980.17	0.023	12.31	9.23	121.09	77.77	1
4980.33	0.0236	12.04	8.42	117.81	76.3	1
4980.5	0.0233	10.82	9.19	113.69	80.24	1
4980.67	0.0223	10.42	9.44	110.81	80.09	1
4980.83	0.0206	10.35	8.87	107.82	77.54	1
4981	0.0201	10.44	9.71	104.96	74.13	1
4981.17	0.02	10.17	9.47	104.04	75.02	1
4981.33	0.0195	10.94	8.8	104.58	70.49	1
4981.5	0.0178	10.84	7.42	104.3	70.85	1
4981.67	0.0205	9.65	6.92	106.37	80.72	1
4981.83	0.0173	11.3	6.14	104.77	68.3	1
4982	0.0189	10	9.13	104.77	76.84	1
4982.17	0.0197	9.13	10.08	107.5	85.3	1
4982.33	0.0207	8.92	10.1	109.68	88.79	1
4982.5	0.02	8.25	12.54	111.31	94.83	1
4982.67	0.0208	8.47	14.72	116.47	98.5	1
4982.83	0.0227	9.58	14.33	121.02	95.67	1
4983	0.0247	9.26	15.23	125.06	101.8	1
4983.17	0.0245	9.45	14.92	130.94	106.34	1
4983.33	0.0267	9.75	14.41	134.44	107.83	1
4983.5	0.0281	9.07	14.77	136.74	114.59	1
4983.67	0.0303	8.49	17.09	138.47	120.15	1
4983.83	0.0293	10.59	16	140.21	108.04	1
4984	0.0308	9.03	18.46	140.78	118.91	1
4984.17	0.0291	10.59	16	141.35	109.14	1
4984.33	0.0298	10.99	15.49	142.75	107.92	1
4984.5	0.0323	9.52	17.09	144.22	119.06	1
4984.67	0.0356	9.2	15.63	146.76	123.68	1
4984.83	0.0338	10.18	14.37	149.77	120.18	1
4985	0.0339	9	17.05	153.4	131.55	1
4985.17	0.0319	10.99	15.73	157.34	122.34	1
4985.33	0.0318	10.48	18.05	159.22	127.58	1
4985.5	0.0311	10.54	18.54	159.96	127.93	1
4985.67	0.0312	11.01	18.5	159.96	124.83	1
4985.83	0.0299	10.83	19.07	159.51	125.6	1
4986	0.0308	9.69	18.92	159.6	133.16	1
4986.17	0.0327	9.96	20.16	163.72	135.47	1
4986.33	0.0323	10.33	20.39	167.34	136.6	1
4986.5	0.031	11.51	17.61	167.96	129.45	1

4986.67	0.0313	13.72	14.82	169.74	116.64	1
4986.83	0.0304	14.66	15.56	170.91	111.63	1
4987	0.0318	14.49	15.68	168.87	110.73	1
4987.17	0.0338	14.78	14.25	167.91	107.89	1
4987.33	0.035	14.01	15.71	165.73	110.76	1
4987.5	0.0366	14.04	13.46	163.11	108	1
4987.67	0.0379	13.37	13.26	161.08	110.41	1
4987.83	0.038	13.64	13.5	159.1	106.64	1
4988	0.0396	14.39	12.87	159.63	102.25	1
4988.17	0.0381	13.72	15.6	157.42	104.47	1
4988.33	0.0373	13.47	12.38	154.18	102.88	1
4988.5	0.0383	13.3	11.28	150.98	100.86	1
4988.67	0.0372	13.13	11.01	147.98	99.03	1
4988.83	0.0334	13.64	10.92	145.6	93.26	1
4989	0.0312	13.7	11.56	143.48	90.81	1
4989.17	0.0322	13.94	11.16	145.41	91.15	1
4989.33	0.0298	14.79	12.18	144.14	84.27	1
4989.5	0.0307	13.28	12.07	141.16	91.28	1
4989.67	0.0295	13.01	12.09	138.34	90.25	1
4989.83	0.0287	13.61	10.89	138.78	86.74	1
4990	0.0288	13.05	10.39	137.8	89.43	1
4990.17	0.0265	12.54	11.08	135.72	90.78	1
4990.33	0.0268	12.64	9.26	134.09	88.49	1
4990.5	0.024	13.1	11.16	131.78	83.15	1
4990.67	0.0228	12.06	12.4	130.22	88.48	1
4990.83	0.0238	11.24	15.62	132.41	96.06	1
4991	0.026	9.96	16.92	134.83	106.84	1
4991.17	0.0281	8.96	17.91	139.04	117.62	1
4991.33	0.0249	10.21	18.31	139.08	109.39	1
4991.5	0.0259	8.62	17.94	139.89	120.72	1
4991.67	0.0238	9.87	17.51	142.86	115.4	1
4991.83	0.0225	11.77	17.57	147.91	107.91	1
4992	0.0203	11.84	19.81	149.56	109.06	1
4992.17	0.0197	13.28	18.51	151.77	101.77	1
4992.33	0.0215	13.08	17.97	152.3	103.62	1
4992.5	0.0219	14.68	17.52	154.13	94.86	1
4992.67	0.024	14.21	16.74	154.53	98.4	1
4992.83	0.0254	14.67	16.42	155.01	95.86	1
4993	0.025	14.8	14.41	153.35	93.31	1
4993.17	0.0249	14.87	12.75	151.25	90.8	1
4993.33	0.0245	16.22	9.93	148.1	78.76	1
4993.5	0.0247	15.85	9.41	148.72	81.79	1
4993.67	0.0242	16.91	8.43	151.89	77.98	1
4993.83	0.0252	17.92	9.17	154.7	74.14	1
4994	0.0253	15.99	11.65	155.83	87.98	1
4994.17	0.0269	16.18	10.23	157.03	87.84	1
4994.33	0.0249	15.75	12.04	156.92	90.63	1

4994.5	0.022	17.28	10.35	158.39	81.95	1
4994.67	0.0209	15.97	10.76	155.97	88.2	1
4994.83	0.0222	15.56	11.95	155.96	90.93	1
4995	0.0218	15.45	12.81	155.69	91.35	1
4995.17	0.0222	16.01	13.03	157	88.99	1
4995.33	0.0193	15.98	16.49	156.72	88.89	1
4995.5	0.0193	14.84	17.19	157.56	97.24	1
4995.67	0.0223	13.08	18.82	158.78	110.06	1
4995.83	0.0226	14.14	16.72	158.92	103.15	1
4996	0.0226	13.14	15.42	159.82	110.69	1
4996.17	0.025	13.13	14.59	161.03	111.95	1
4996.33	0.0228	13.75	15.44	160.69	107.5	1
4996.5	0.0231	12.97	14.88	159.67	111.66	1
4996.67	0.024	11.65	14.47	156.5	117.2	1
4996.83	0.0223	12.41	15.23	156.97	112.66	1
4997	0.0192	13.9	13.06	156.29	102.19	1
4997.17	0.0185	13.17	12.65	155.44	106.11	1
4997.33	0.0201	12.49	12.73	150.15	105.36	1
4997.5	0.0231	12.21	8.97	145.71	102.84	1
4997.67	0.0203	12.91	8.31	137.1	89.68	1
4997.83	0.0171	13.08	6.56	126.29	77.88	1
4998	0.0164	11.08	8.2	116.44	81.25	1
4998.17	0.0149	11.52	8.77	109.66	71.69	1
4998.33	0.0119	11.75	7.87	106.28	66.78	1
4998.5	0.0143	11.05	5.9	105.53	70.65	1
4998.67	0.0146	12.44	6.59	106.9	62.85	1
4998.83	0.0171	11.63	8.12	109.29	70.55	1
4999	0.0207	9.51	8.95	110.79	86.04	1
4999.17	0.0223	8.56	9.7	111.3	92.77	1
4999.33	0.0228	8.83	9.3	109.22	88.95	1
4999.5	0.021	9.91	8.04	112.45	85.01	1
4999.67	0.0219	9.86	10.03	116.28	89.13	1
4999.83	0.0226	10.05	9.45	120.71	92.27	1
5000	0.0247	10.9	10.02	128.8	94.67	1
5000.17	0.0241	12.03	10.74	134.11	92.54	1
5000.33	0.0247	12.69	12.31	141.57	95.55	1
5000.5	0.0268	14.3	10.73	146.78	90.13	1
5000.67	0.0262	14.53	13.53	150.02	91.8	1
5000.83	0.0268	13.46	15.08	153.31	102.08	1
5001	0.0244	14.85	15.27	155.83	95.44	1
5001.17	0.0239	16.58	13.65	157.17	85.39	1
5001.33	0.0233	17.69	13.46	157.09	78.01	1
5001.5	0.0236	17.2	14.08	157.01	81.12	1
5001.67	0.0255	16.72	13.87	155.08	82.42	1
5001.83	0.025	15.48	15.15	150.94	86.47	1
5002	0.025	15.15	14.37	146.65	84.38	1
5002.17	0.0245	15.07	11.74	139.7	78.02	1

5002.33	0.0253	13.56	11.63	134.77	83.1	1
5002.5	0.0261	10.32	13.41	124.11	93.86	1
5002.67	0.0243	7.93	16.49	112.79	98.4	1
5002.83	0.0238	8.19	13.34	105.04	89.05	1
5003	0.0257	7.25	11.76	98.26	88.48	1
5003.17	0.0269	5.58	13.11	92.89	86.32	1
5003.33	0.0258	5.62	11.68	88.9	82.56	1
5003.5	0.0253	4.58	12.36	88.5	82.19	1
5003.67	0.0258	5.07	11.18	89.73	83.34	1
5003.83	0.0227	4.87	13.72	89.59	83.22	1
5004	0.0234	5.65	11.66	93.82	87.19	1
5004.17	0.0247	5.89	13.68	100.01	93.01	1
5004.33	0.0244	5.38	16.28	106.43	99.04	1
5004.5	0.0261	6.33	14.49	111.24	103.56	1
5004.67	0.0264	9.11	11.06	120.12	97.89	1
5004.83	0.0264	10.56	9.2	127.03	95.2	1
5005	0.0259	10.83	10.02	130.97	97.29	1
5005.17	0.0264	12.51	8.18	136.05	91.3	1
5005.33	0.0269	14.13	5.92	138.11	82.66	1
5005.5	0.0278	12.63	10.06	140.23	94.63	1
5005.67	0.0273	12.53	10.63	140.22	95.29	1
5005.83	0.0288	12.22	11.24	139.91	97.03	1
5006	0.0282	13.17	8.33	140.11	90.93	1
5006.17	0.0273	13.65	8.26	135.8	83.52	1
5006.33	0.0269	12.7	6.86	130.91	84.96	1
5006.5	0.0283	12.14	5.52	124.47	82.23	1
5006.67	0.0257	11.65	8.1	117.58	78.64	1
5006.83	0.0248	9.89	8.02	107.37	80.17	1
5007	0.0254	9.57	6.68	98.41	73.4	1
5007.17	0.026	8.24	6.55	93.36	77.1	1
5007.33	0.0232	7.14	9.73	87.55	78.64	1
5007.5	0.0213	5.4	13.59	84.69	78.61	1
5007.67	0.0206	6.03	10.4	81.89	75.98	1
5007.83	0.0212	6.6	9.78	81.45	75.56	1
5008	0.0173	7.94	7.95	79.75	65.61	1
5008.17	0.0179	8.14	9.6	79.37	63.96	1
5008.33	0.0176	8.06	9.04	80.87	65.95	1
5008.5	0.0163	8.52	10.39	82.31	64.36	1
5008.67	0.0154	9.07	11.46	85.43	63.8	1
5008.83	0.0188	10.31	8.8	90.08	60.28	1
5009	0.0197	11.88	9.19	96.58	56.34	1
5009.17	0.0201	11.96	10.05	103.75	62.94	1
5009.33	0.0206	13.46	9.89	111.69	60.88	1
5009.5	0.0209	14.74	6.63	120.3	60.99	1
5009.67	0.0223	15.13	4.9	127.6	65.64	1
5009.83	0.022	16.73	4.71	133.1	60.54	1
5010	0.0212	17.15	3.25	134.18	58.89	1

5010.17	0.023	15.11	8.42	135.72	73.85	1
5010.33	0.0262	13.75	8.6	135.03	82.08	1
5010.5	0.025	13.65	9.74	133.39	81.13	1
5010.67	0.0246	14.54	7.94	131.69	73.61	1
5010.83	0.0228	14.85	7.61	129.43	69.33	1
5011	0.0214	13.8	9.13	126.24	73.08	1
5011.17	0.0218	11.32	10.63	120.49	83.68	1
5011.33	0.0216	11.12	9.74	115.25	79.86	1
5011.5	0.0201	10.45	10.93	109.34	78.41	1
5011.67	0.0202	10.37	10.38	100.23	69.93	1
5011.83	0.0204	10.87	8.62	95.08	61.53	1
5012	0.0226	9.42	9.37	92.4	68.4	1
5012.17	0.0228	9.26	10.31	92.31	69.36	1
5012.33	0.0216	10.66	6.86	92.55	60.41	1
5012.5	0.0202	9.89	8.35	94.85	67.72	1
5012.67	0.0227	10.26	6.91	98.64	69.03	1
5012.83	0.0253	8.87	9.64	101.03	80.61	1
5013	0.0294	7.88	9.5	102.66	88.69	1
5013.17	0.0281	7.24	10.51	103.65	93.93	1
5013.33	0.0286	8.39	8.88	106.53	89.18	1
5013.5	0.0285	8.27	10.03	109.73	93.12	1
5013.67	0.0289	8.17	10.33	111.6	95.66	1
5013.83	0.0297	7.38	11.55	115.7	104.9	1
5014	0.0261	7.95	13.44	118	103.43	1
5014.17	0.0259	9.14	12.8	121.1	98.66	1
5014.33	0.0288	7.31	16.07	124.62	114.22	1
5014.5	0.0276	8.36	15.95	127.98	110.63	1
5014.67	0.0281	9.61	14.4	128.03	102.46	1
5014.83	0.0282	10.46	13.74	126.59	95.38	1
5015	0.0261	11.82	12.72	126.71	86.58	1
5015.17	0.0245	12.53	12.41	127	82.16	1
5015.33	0.0264	13	10.58	129.21	81.26	1
5015.5	0.025	13.66	11.34	129.47	77.19	1
5015.67	0.0264	14.33	9.86	131.14	74.43	1
5015.83	0.0279	13.58	9.11	130.52	78.79	1
5016	0.0289	12.6	10.36	127.15	81.86	1
5016.17	0.0306	12.33	8.99	123.17	79.73	1
5016.33	0.0272	11.9	8.43	116.38	75.83	1
5016.5	0.0249	13.02	5.46	110.8	62.93	1
5016.67	0.0276	11.65	6.77	107.88	69.08	1
5016.83	0.0258	11.99	4.44	107.38	66.31	1
5017	0.0241	11.23	6.22	108.45	72.4	1
5017.17	0.0257	11.05	4.55	109.13	74.21	1
5017.33	0.0242	11.44	5.36	109.15	71.69	1
5017.5	0.0215	12.12	5.83	107.93	66.01	1
5017.67	0.0211	12.6	5.49	109.56	64.46	1
5017.83	0.0216	11.13	7.92	107.56	72.12	1

5018	0.0215	11.71	7.57	106.46	67.27	1
5018.17	0.0215	12.07	8.38	110.22	68.63	1
5018.33	0.0216	12.74	9.83	113.49	67.41	1
5018.5	0.0247	12.92	11.48	118.86	71.58	1
5018.67	0.025	12.31	13.53	121.97	78.68	1
5018.83	0.0259	11.19	12.52	121.55	85.63	1
5019	0.0264	11.09	12.54	121.04	85.78	1
5019.17	0.0248	10.8	13.69	118.12	84.77	1
5019.33	0.0232	8.6	17.16	114.37	95.59	1
5019.5	0.0236	7.2	19.21	111.94	102.41	1
5019.67	0.0258	7.2	17.52	110.33	100.78	1
5019.83	0.0257	6.08	17.09	108.99	101.45	1
5020	0.0234	6.1	17.92	107.46	100.01	1
5020.17	0.0229	5.9	18.51	108.7	101.17	1
5020.33	0.0215	5.77	17.45	107.5	100.05	1
5020.5	0.0236	4.77	16.9	106.02	98.66	1
5020.67	0.0236	3.81	17.86	104.61	97.34	1
5020.83	0.0244	3.99	17.85	104.36	97.1	1
5021	0.0224	4.77	17.46	106.51	99.12	1
5021.17	0.022	4.28	21.02	107.04	99.61	1
5021.33	0.0229	3.8	20.8	109.14	101.59	1
5021.5	0.0228	4.38	20.05	111	103.34	1
5021.67	0.0225	5.56	17.36	111.78	104.08	1
5021.83	0.0202	4.98	19.68	113.62	105.8	1
5022	0.0217	5.52	20.2	114.45	106.58	1
5022.17	0.0231	5.34	19.17	115.82	107.87	1
5022.33	0.0232	5.49	21.13	115.64	107.7	1
5022.5	0.0231	6.33	20.68	116.38	108.4	1
5022.67	0.0212	6.73	20.62	116.38	108.4	1
5022.83	0.0196	6.76	19.76	114.88	106.99	1
5023	0.0197	6.31	18.95	113.4	105.59	1
5023.17	0.0195	7.78	18.29	110.24	96.91	1
5023.33	0.0191	7.59	16.78	107.8	95.75	1
5023.5	0.0199	6.82	16.88	104.72	97.44	1
5023.67	0.019	7.22	16.26	101.58	91.97	1
5023.83	0.0195	6.85	15.74	95.93	88.82	1
5024	0.0188	6.98	14.02	89.72	81.8	1
5024.17	0.0176	5.98	13.92	82.05	76.13	1
5024.33	0.0146	7.34	13.1	75.62	65.51	1
5024.5	0.0123	6.97	9.45	69.86	62.24	1
5024.67	0.011	6.23	9.52	63.78	58.95	1
5024.83	0.0116	5.12	8.23	60.1	55.49	1
5025	0.0112	4.97	6.55	57.04	52.62	1
5025.17	0.0104	4.91	5.78	55.12	50.82	1
5025.33	0.0115	3.46	5.32	54.17	49.92	1
5025.5	0.0117	3.53	6.16	52.74	48.57	1
5025.67	0.0125	4.27	6.37	53.53	49.32	1

5025.83	0.0135	4.55	5.77	56.25	51.88	1
5026	0.0137	4.72	6.61	62.5	57.75	1
5026.17	0.0148	5.1	7.49	67.77	62.7	1
5026.33	0.015	6.22	7	74.77	69.28	1
5026.5	0.0165	6.38	6.99	82.7	76.74	1
5026.67	0.0188	6.42	8.42	88.04	81.76	1
5026.83	0.0195	7.05	9.48	92.14	83.75	1
5027	0.019	8.31	9.69	94.58	77.87	1
5027.17	0.0205	8.63	11.93	99.11	80.29	1
5027.33	0.0212	9.68	10.04	101.06	75.28	1
5027.5	0.0207	10.61	10.79	103.4	71.45	1
5027.67	0.0214	10.04	10.57	105.88	77.66	1
5027.83	0.0197	11.33	8.43	107.65	70.95	1
5028	0.0203	11.83	8.16	109.53	69.52	1
5028.17	0.0221	10.96	8.28	110.96	76.65	1
5028.33	0.0236	9.66	9.81	112.08	86.32	1
5028.5	0.0245	8.77	11.91	112.82	92.94	1
5028.67	0.0245	7.81	12.86	113.06	99.49	1
5028.83	0.0225	8.86	13.01	115.22	94.68	1
5029	0.0237	8.5	11.65	119.82	101.64	1
5029.17	0.024	9.22	11.22	125.75	102.76	1
5029.33	0.0246	9.75	9.82	130.96	104.43	1
5029.5	0.0249	10.57	11.15	138.05	106.06	1
5029.67	0.0271	11.87	10.17	143.9	103.25	1
5029.83	0.0298	12.5	10.41	149.13	104.32	1
5030	0.0324	11.51	11.11	151.8	113.44	1
5030.17	0.0313	11.46	12.75	152.35	114.32	1
5030.33	0.0277	12.47	12.98	153.92	109.2	1
5030.5	0.0275	13.52	12.27	155.68	104.05	1
5030.67	0.0262	13.73	12.24	155.12	102.14	1
5030.83	0.0259	15.18	10.38	153.51	91	1
5031	0.028	14.01	11.09	151.98	97.16	1
5031.17	0.0267	14.01	11.93	148.69	93.92	1
5031.33	0.027	13.97	11.71	144.15	89.7	1
5031.5	0.0262	12.49	13.77	138.47	93.83	1
5031.67	0.0246	11.92	14.67	132.79	91.92	1
5031.83	0.0229	10.8	15.35	130.85	97.37	1
5032	0.0225	9.95	15.73	129.57	101.69	1
5032.17	0.0219	10.91	15.05	131.48	97.27	1
5032.33	0.0227	11.04	14.56	135.1	99.98	1
5032.5	0.0243	10.81	14.23	137.32	103.74	1
5032.67	0.0248	10.25	13.44	136.09	106.18	1
5032.83	0.0257	11.06	9.95	135.08	99.87	1
5033	0.0261	10.05	11.69	132.47	103.95	1
5033.17	0.0264	10.15	11.52	132.92	103.7	1
5033.33	0.0274	10.49	11.3	133.94	102.46	1
5033.5	0.0278	9.35	12.61	136.01	112.05	1

5033.67	0.0275	10.96	10.27	139.01	104.41	1
5033.83	0.029	10.63	8.98	141.71	109.28	1
5034	0.0291	10.18	9.44	139.52	110.03	1
5034.09	0.0331	10.57	9.45	130.75	98.79	2
5034.25	0.0296	13.32	7.34	134.25	84.15	2
5034.42	0.0286	12.93	9.25	134.75	87.22	2
5034.59	0.0308	12.81	7.54	131.83	85.11	2
5034.75	0.0308	11.77	7.83	130.19	90.33	2
5034.92	0.0325	10.9	7.49	129.86	95.75	2
5035.09	0.0316	11.1	8.78	128.92	93.51	2
5035.25	0.0307	12.28	6.38	130.97	87.73	2
5035.42	0.0303	13.26	6.93	133.16	83.48	2
5035.59	0.029	13.15	8.35	132.13	83.17	2
5035.75	0.0274	11.87	9.86	127.67	87.19	2
5035.92	0.026	12.37	9.23	125.38	81.64	2
5036.09	0.0262	12.1	8.69	121.78	79.88	2
5036.25	0.0267	11.41	9.91	117.72	80.39	2
5036.42	0.0278	9.32	11.64	114.15	90.62	2
5036.59	0.0283	8.84	11.7	110.81	90.45	2
5036.75	0.0258	9.48	12.41	111.34	86.76	2
5036.92	0.0268	9.95	12.1	113.76	86.07	2
5037.09	0.0237	10.35	12.88	112.47	82.17	2
5037.25	0.0232	11.25	10.22	111.68	75.46	2
5037.42	0.0239	9.98	13.01	111.3	83.42	2
5037.59	0.0225	9.42	11.83	109.73	85.58	2
5037.75	0.0222	10.12	9.77	111.09	82.31	2
5037.92	0.0235	10.97	8.55	115.18	80.76	2
5038.09	0.0219	10.68	9.99	118.36	85.82	2
5038.25	0.0214	10.87	9.96	121.64	87.79	2
5038.42	0.0218	10.9	10.04	124.27	90.23	2
5038.59	0.0237	11.69	10.46	125.48	86.22	2
5038.75	0.0232	13.14	8.88	127.15	78.34	2
5038.92	0.0222	12.48	9.23	125.49	81	2
5039.09	0.0204	12.23	8.96	122.29	79.52	2
5039.25	0.0193	12.72	8.61	121.68	75.7	2
5039.42	0.0207	10.79	10.9	120.27	86.98	2
5039.59	0.0205	11.44	10.45	121.3	83.72	2
5039.75	0.0218	11.07	9.37	121.48	86.34	2
5039.92	0.0206	11.12	12.19	121.07	85.57	2
5040.09	0.0202	11.39	13.29	119.69	82.43	2
5040.25	0.023	10.64	11.7	117.89	85.6	2
5040.42	0.0248	10.38	10.66	116.2	85.63	2
5040.59	0.0249	10.84	9.39	115.42	81.83	2
5040.59	0.0249	10.84	9.39	115.42	81.83	2
5040.75	0.0242	10.86	8.82	116.46	82.72	2
5040.92	0.0247	10.22	8.05	117.12	87.62	2

5041.09	0.0263	10.12	7.22	120.4	91.52	2
5041.25	0.0249	12.05	5.29	123.96	82.33	2
5041.42	0.0267	11.69	4.85	128.68	89.35	2
5041.59	0.0258	13.41	3.15	131.57	80.9	2
5041.75	0.0261	12.93	3.49	133.25	85.72	2
5041.92	0.0259	13.56	5.12	134.26	82.58	2
5042.09	0.0275	13.28	4.32	135.13	85.3	2
5042.25	0.0268	12.34	4.7	134.08	90.47	2
5042.42	0.025	13.09	5.73	132.54	84	2
5042.59	0.0237	13.09	6.3	130.64	82.07	2
5042.75	0.024	11.65	8.16	127.63	88.63	2
5042.92	0.0229	10.81	8.53	123.94	90.51	2
5043.09	0.0218	10.13	10.01	121.47	92.52	2
5043.25	0.0204	10.61	10.51	119.06	86.99	2
5043.42	0.0228	8.82	14.13	116.75	96.47	2
5043.59	0.022	9.09	15.54	113.55	91.52	2
5043.75	0.0222	8.13	16.5	114.93	99.2	2
5043.92	0.021	9.3	14.94	112.61	89.2	2
5044.09	0.0199	9.11	15.8	113.59	91.43	2
5044.25	0.0197	8.76	14.7	113.91	94.09	2
5044.42	0.0201	8.93	14.97	114.71	93.7	2
5044.59	0.0201	8.31	14.55	114.58	97.68	2
5044.75	0.0204	7.38	17.15	114.47	103.69	2
5044.92	0.0204	8.73	15.3	117.13	97.41	2
5045.09	0.0187	9.21	15.8	117.76	94.87	2
5045.25	0.0198	9.29	16.37	118.54	95.17	2
5045.42	0.0199	9.71	16.39	120.63	94.45	2
5045.59	0.0194	9.8	16.65	121.22	94.42	2
5045.75	0.019	10.86	13.6	121.18	87.43	2
5045.92	0.0192	10.97	12.46	119.26	84.77	2
5046.09	0.0176	10.32	13.37	119.06	88.9	2
5046.25	0.0168	10.47	11.08	116.75	85.63	2
5046.42	0.0148	11.07	11.93	114.8	79.71	2
5046.59	0.0132	10.71	12.24	112.35	79.68	2
5046.75	0.0144	10.59	11.33	110.97	79.06	2
5046.92	0.0134	12.46	8	109.06	64.91	2
5047.09	0.0126	11.5	9.51	106.14	68.35	2
5047.25	0.0134	11.22	8.69	104.89	68.93	2
5047.42	0.0115	10.68	9.12	102.29	69.89	2
5047.59	0.0119	9.4	9.48	96.34	72.45	2
5047.75	0.01	9.47	7.2	89.87	65.6	2
5047.92	0.0091	8.11	10.17	82.39	67.14	2
5048.09	0.0073	8.21	10.71	76.98	61.11	2
5048.25	0.0099	7.07	10.01	72.88	64.6	2
5048.42	0.012	5.89	11.01	69.59	64.41	2
5048.59	0.0126	5.15	9.66	66.09	61.13	2
5048.75	0.0125	5.36	8.5	64.77	59.89	2

5048.92	0.0127	5.54	8.77	63.56	58.75	2
5049.09	0.0113	5.43	10.18	63.21	58.42	2
5049.25	0.0097	5.94	9.26	63.52	58.7	2
5049.42	0.0111	5.67	9.09	65.74	60.8	2
5049.59	0.0124	6.89	7.17	68.53	61.42	2
5049.75	0.0128	7.19	6.29	73.23	64.12	2
5049.92	0.0149	6.95	7.47	79.52	71.9	2
5050.09	0.0174	6.88	10.06	91.35	84.12	2
5050.25	0.0202	6.72	11.51	103.3	96.1	2
5050.42	0.0214	7.76	12.03	114.84	101.55	2
5050.59	0.0179	10.65	10.55	122.75	90.35	2
5050.75	0.0201	11.16	11.02	126.94	91.15	2
5050.92	0.0215	11.42	11.28	128.77	91.25	2
5051.09	0.0224	12	10.1	129.92	88.59	2
5051.25	0.0257	10.62	11.13	132.09	99.77	2
5051.42	0.0273	10.75	10.34	133.1	99.94	2
5051.59	0.0268	10.55	10.01	131.87	100.01	2
5051.75	0.0295	9.79	9.27	131.2	104.4	2
5051.92	0.0281	9.78	10.39	129.67	102.92	2
5052.09	0.0266	9.81	9.8	126.22	99.34	2
5052.25	0.0275	9.61	5.01	117.32	91.85	2
5052.42	0.0258	9.35	4.74	108.11	84.42	2
5052.59	0.0229	8.61	5.1	98.46	79.72	2
5052.75	0.0269	5.98	7.69	92.95	86.37	2
5052.92	0.026	6.07	8.24	91.77	85.26	2
5053.09	0.0255	6.38	7.36	94.09	87.45	2
5053.25	0.0232	7.11	9.52	99.35	90.49	2
5053.42	0.0206	8.59	10.02	105.61	86.95	2
5053.59	0.0202	9.75	10.94	112.3	85.91	2
5053.75	0.0221	10.6	10.01	120.56	88.55	2
5053.92	0.0191	11.65	10.72	127.28	88.25	2
5054.09	0.0203	11.24	11.91	132.52	96.16	2
5054.25	0.0218	12.27	11.24	136.02	92.85	2
5054.42	0.0205	13.25	12.03	139.63	89.95	2
5054.59	0.0199	13.25	12.59	141.39	91.72	2
5054.75	0.0221	13.77	12.18	143.4	90.24	2
5054.92	0.0216	14.47	10.4	146.32	88.53	2
5055.09	0.0197	15.33	10.57	152.15	88.62	2
5055.25	0.0203	15.58	12.25	158.01	92.82	2
5055.42	0.0219	16.72	9.91	164	91.24	2
5055.59	0.0206	18.29	9.62	170.44	87.23	2
5055.75	0.0238	19.21	9.28	176.31	86.99	2
5055.92	0.0221	20.33	10.55	180.18	83.43	2
5056.09	0.0247	20.57	10.82	183.5	85.14	2
5056.25	0.0269	21.51	9.6	187.15	82.59	2
5056.42	0.0262	21.84	9.9	190.11	83.32	2
5056.59	0.0268	21.23	9.91	192.38	89.6	2

5056.75	0.0262	21.81	9.56	194.14	87.55	2
5056.92	0.0253	22.11	8.95	195.1	86.49	2
5057.09	0.0267	22.4	7.8	194.14	83.65	2
5057.25	0.0287	20.97	8.93	189.59	88.56	2
5057.42	0.0289	20.1	9.87	185.52	90.25	2
5057.59	0.0299	18.47	12	180.86	96.41	2
5057.75	0.0311	16.41	10.25	173.51	102.65	2
5057.92	0.0298	15.41	9.5	167.95	103.77	2
5058.09	0.0301	15.79	8.89	163.11	96.44	2
5058.25	0.0292	15.67	8.68	158.96	93.14	2
5058.42	0.0273	14.94	8.75	155.23	94.23	2
5058.59	0.028	14.82	7.3	152.59	92.46	2
5058.75	0.0284	14.24	7.93	151.35	95.05	2
5058.92	0.0309	14.26	5.4	149.35	92.93	2
5059.09	0.0298	13.39	7.19	147.76	97.05	2
5059.25	0.0267	12.8	10.35	147.02	100.2	2
5059.42	0.0267	12.72	9.79	145.15	98.89	2
5059.59	0.0248	13.18	6.89	140.19	90.97	2
5059.75	0.0246	11.99	5.32	134.47	93.14	2
5059.92	0.025	12.38	4.43	126.27	82.46	2
5060.09	0.0229	12.54	1.85	117.38	72.58	2
5060.25	0.0232	10.56	2.35	108.07	76.43	2
5060.42	0.0216	10.35	2.02	101.26	71.09	2
5060.59	0.0216	10.66	2.06	95.47	63.28	2
5060.75	0.0222	9.32	3.07	91.89	68.55	2
5060.92	0.0214	9.72	2.45	90.47	64.53	2
5061.09	0.0211	9.53	2.75	90.8	66.12	2
5061.25	0.0213	10.77	1.77	90.53	57.71	2
5061.42	0.0217	11.77	0.02	90.21	50.74	2
5061.59	0.0223	11.18	0	91.82	56.23	2
5061.75	0.0233	10.78	0.61	92.44	59.5	2
5061.92	0.023	11.71	1.35	93.35	54.3	2
5062.09	0.024	10.82	2.88	97.01	63.76	2
5062.25	0.0252	9.32	7.02	100.16	76.77	2
5062.42	0.0247	8.72	9.76	103.06	83.56	2
5062.59	0.0259	7.17	11.64	104.17	94.9	2
5062.75	0.0264	6.09	11.97	105.83	98.48	2
5062.92	0.026	6.16	13.38	107.63	100.17	2
5063.09	0.0249	7.89	12.05	109.29	95.21	2
5063.25	0.023	7.73	13.54	110.16	97.14	2
5063.42	0.0239	7.06	13.62	110.83	102.21	2
5063.59	0.026	6.14	13.96	111.08	103.41	2
5063.75	0.0247	6.93	13.01	109.96	102.2	2
5063.92	0.0242	7.4	12.96	108.84	97.96	2
5064.09	0.0242	7.02	13.28	108.15	99.78	2
5064.25	0.0235	7.93	12.67	107.71	93.36	2
5064.42	0.0215	8.37	10.91	107.51	90.31	2

5064.59	0.0225	10.28	7.74	110.16	80.33	2
5064.75	0.0201	12.51	5.78	113.67	69.13	2
5064.92	0.0196	12.68	6.89	115.46	69.76	2
5065.09	0.0202	13.26	5.69	117.58	68.06	2
5065.25	0.0217	11.05	8	116.86	81.89	2
5065.42	0.0245	10.43	7.45	116.19	85.3	2
5065.59	0.0239	9.97	7.5	115.08	87.25	2
5065.75	0.0221	9.97	8.33	115.85	87.99	2
5065.92	0.0229	10.55	7.14	116.59	84.91	2
5066.09	0.0209	12.1	6.11	118.41	76.52	2
5066.25	0.0196	11.96	5.9	118.19	77.25	2
5066.42	0.0181	11.56	5.58	116.53	78.23	2
5066.59	0.0196	10.6	5.7	115.29	83.31	2
5066.75	0.0192	7.95	6.84	111.42	96.92	2
5066.92	0.0216	6.71	6.42	107.69	100.23	2
5067.09	0.021	7.65	3.53	103.13	90.71	2
5067.25	0.0201	7.46	4.39	99.45	88.33	2
5067.42	0.0206	8.78	3.04	95.33	75.56	2
5067.59	0.0202	8.68	3.62	93.99	74.89	2
5067.75	0.0198	9.02	5.28	93.35	71.96	2
5067.92	0.0199	8.95	4.15	91.75	70.87	2
5068.09	0.0201	8	5.17	90.32	75.69	2
5068.25	0.0223	6.25	6.92	91.17	84.7	2
5068.42	0.022	7.43	7.86	94.26	83.34	2
5068.59	0.0228	8.55	7.74	101.44	83.07	2
5068.75	0.0228	12.03	7.64	109.83	68.47	2
5068.92	0.0219	15.64	6.1	120.74	55.47	2
5069.09	0.0201	16.28	10.98	129.12	59.6	2
5069.25	0.0207	16.37	14.04	136.45	66.28	2
5069.42	0.0212	15.11	15.6	140.82	78.89	2
5069.59	0.0232	13.93	16.88	146.21	91.96	2
5069.75	0.0226	14.3	17.68	151.58	94.86	2
5069.92	0.025	14.4	15.71	156.8	99.35	2
5070.09	0.0277	14.39	14.6	160.28	102.86	2
5070.25	0.0293	15.61	15.35	166.56	101.06	2
5070.42	0.0306	15.58	16.37	171.18	105.86	2
5070.59	0.0311	16.05	15.75	174.22	105.75	2
5070.75	0.0318	15.27	16.69	174.62	111.26	2
5070.92	0.0328	12.77	19.53	175.48	128.62	2
5071.09	0.0315	12.28	21	175.68	132.01	2
5071.25	0.0351	11.74	16.74	177.74	137.61	2
5071.42	0.0335	13.6	13.69	179.13	126.72	2
5071.59	0.033	14.66	12.71	180.99	121.6	2
5071.75	0.0324	15.9	12.01	184.19	116.59	2
5071.92	0.0307	17.54	11.25	183.72	105.36	2
5072.09	0.0288	17.64	13.33	184.09	105.02	2
5072.25	0.0279	18.3	14.09	183.3	99.93	2

5072.42	0.0273	17.52	13.52	179.23	101.03	2
5072.59	0.0262	17.75	11.79	174.55	94.85	2
5072.75	0.0271	16.22	12.82	170.06	100.5	2
5072.92	0.0251	15.77	13.42	165.78	99.27	2
5073.09	0.0241	16.76	11.03	160.35	87.34	2
5073.25	0.0257	15.88	9.2	153.34	86.22	2
5073.42	0.0227	16.99	10.13	149.48	75.06	2
5073.59	0.022	16.38	12.75	150.8	80.37	2
5073.75	0.0211	17.83	11.45	153.21	73.24	2
5073.92	0.0209	17.16	12.37	153.21	77.67	2
5074.09	0.0203	15.93	14.61	151.72	84.25	2
5074.25	0.0216	15.53	13.69	150.93	86.14	2
5074.42	0.02	15.93	13.35	149.81	82.37	2
5074.59	0.018	16.14	13.32	149.44	80.59	2
5074.75	0.0165	15.66	14.77	148.21	82.55	2
5074.92	0.0159	16.27	13	146.67	77.05	2
5075.09	0.0185	15.2	13.53	145.44	82.83	2
5075.25	0.0201	14.16	13.09	140.12	84.42	2
5075.42	0.0192	12.96	15.44	135.24	87.52	2
5075.59	0.0191	12.19	16.38	127.72	85.12	2
5075.75	0.0193	10.41	16.3	119.04	88.28	2
5075.92	0.0214	8.2	17.41	111.14	94.99	2
5076.09	0.0187	8.84	17.11	104.77	84.44	2
5076.25	0.0214	7.9	13.71	100.59	86.5	2
5076.42	0.02	7.69	15.99	97.53	84.89	2
5076.59	0.0199	5.56	19.34	98.39	91.49	2
5076.75	0.021	5.34	19.94	101.02	93.96	2
5076.92	0.0226	6	19.03	105.48	98.15	2
5077.09	0.0235	4.92	21.82	112.34	104.6	2
5077.25	0.0222	6.46	20.12	115.1	107.19	2
5077.42	0.0202	6.93	21.19	120.21	112	2
5077.59	0.0202	7.81	19.38	123.53	109.82	2
5077.75	0.024	7.21	19.2	126.45	116.69	2
5077.92	0.0256	6.93	18.11	128	119.32	2
5078.09	0.0256	7.39	18.62	128.39	117.41	2
5078.25	0.0249	6.23	19.62	128.33	119.63	2
5078.42	0.0242	7.65	19.45	129.06	116.37	2
5078.59	0.0258	7.61	15.79	128.62	116.22	2
5078.75	0.0267	9.44	12.47	125.61	101.14	2
5078.92	0.0255	9.24	13.9	122.57	99.46	2
5079.09	0.0249	8.39	14.84	117.24	99.81	2
5079.25	0.0234	8.83	12.75	109.94	89.68	2
5079.42	0.0255	7.93	14	106.33	92.01	2
5079.59	0.0251	7.46	14.33	102.16	91	2
5079.75	0.0268	6.95	15.54	100.9	93.12	2
5079.92	0.0244	6.7	15.26	98.3	91.4	2
5080.09	0.0237	7.3	15.25	96.82	86.77	2

5080.25	0.0214	7.26	13.83	94.48	84.71	2
5080.42	0.0232	8.86	11.3	93.42	73.1	2
5080.59	0.0223	7.9	13.1	95.29	81.28	2
5080.75	0.0218	7.67	15.39	98.57	86.02	2
5080.92	0.0202	7.52	14.83	102.75	91.2	2
5081.09	0.02	9.11	13.32	106.45	84.39	2
5081.25	0.0211	8.87	15.05	110.29	89.74	2
5081.42	0.0208	9.23	14.66	111.64	88.7	2
5081.59	0.0185	9.65	14.03	111.16	85.48	2
5081.75	0.0175	9.29	13.49	109.18	85.86	2
5081.92	0.0179	8.93	12.69	107.95	87.04	2
5082.09	0.0174	10.05	10.61	108.54	80.23	2
5082.25	0.0174	9.64	10.88	109.59	83.95	2
5082.42	0.0188	10.26	12.23	112.57	82.88	2
5082.59	0.0191	9.57	13.72	114.87	89.69	2
5082.75	0.0195	10.27	11.38	112.8	83.05	2
5082.92	0.0191	10.74	11.62	109.66	76.83	2
5083.09	0.0192	10.75	12.53	105.98	73.09	2
5083.25	0.0209	10.55	9.36	101.1	69.58	2
5083.42	0.0188	10.89	7.9	98.09	64.39	2
5083.59	0.0177	10.76	10.45	96.52	63.7	2
5083.75	0.0182	9.91	10.26	96.52	69.28	2
5083.92	0.0199	9.43	10.69	96.87	72.77	2
5084.09	0.0164	10.51	10.25	95.72	64.52	2
5084.25	0.0162	9.13	11.21	94.04	71.92	2
5084.42	0.0166	9.3	12.33	93.74	70.57	2
5084.59	0.0143	9.24	11.75	92.94	70.13	2
5084.75	0.0136	8.41	11.28	93.03	75.66	2
5084.92	0.0134	8.63	12.16	95.84	77.01	2
5085.09	0.0129	8.38	10.76	100.88	83.64	2
5085.25	0.0136	8.8	11.23	102.05	82.03	2
5085.42	0.0118	9.34	13.42	103.87	80.28	2
5085.59	0.0137	9.33	12.86	104.69	81.18	2
5085.75	0.014	9.74	10.84	104.92	78.7	2
5085.92	0.0141	10.76	11.29	104.51	71.56	2
5086.09	0.0146	11.54	10.63	105.31	67.25	2
5086.25	0.0174	10.67	10.19	106.47	74.12	2
5086.42	0.0171	11.86	11.75	109.08	68.84	2
5086.59	0.0188	11.55	12.08	110.47	72.25	2
5086.75	0.0222	12.1	11.2	111.01	69.19	2
5086.92	0.0246	11.9	10.39	110.21	69.73	2
5087.09	0.0263	11.21	9.89	108.11	72.16	2
5087.25	0.0271	11.96	9.53	104.71	63.86	2
5087.42	0.0267	10.95	8.51	104.17	69.98	2
5087.59	0.0275	9.61	9.23	103.52	78.14	2
5087.75	0.026	9.62	10.07	103.02	77.63	2
5087.92	0.0281	9.06	8.74	103.67	81.97	2

5088.09	0.0281	9.09	9.11	104.23	82.3	2
5088.25	0.0296	8.19	9.16	104.95	88.95	2
5088.42	0.0286	7.9	10.04	102.31	88.22	2
5088.59	0.0283	6.01	10.81	97.78	90.92	2
5088.75	0.0275	5.79	8.28	92.65	86.09	2
5088.92	0.0244	5.55	7.43	88.07	81.78	2
5089.09	0.0206	5.98	8.86	85.94	79.79	2
5089.25	0.0191	4.98	11.47	84.17	78.12	2
5089.42	0.0192	3.66	11.62	80.33	74.51	2
5089.59	0.0191	3.25	13.65	78.65	72.93	2
5089.75	0.0196	1.92	14.08	78.55	72.83	2
5089.92	0.0214	0.5	13.19	77.69	72.03	2
5090.09	0.0212	0.2	14.35	76.76	71.15	2
5090.25	0.0215	0	12.58	74.51	69.04	2
5090.42	0.018	1.17	12.42	73.27	67.88	2
5090.59	0.0181	1.44	12.67	74.45	68.98	2
5090.75	0.0184	2.58	13.52	77.12	71.49	2
5090.92	0.0181	3.22	14.58	79.62	73.84	2
5091.09	0.0189	2.12	17.82	82.9	76.92	2
5091.25	0.0189	3.25	15.91	85.32	79.2	2
5091.42	0.0189	3.54	15.59	87.89	81.61	2
5091.59	0.0175	5.17	14.83	91.56	85.07	2
5091.75	0.0182	6.12	13.59	95.02	88.31	2
5091.92	0.0174	7.4	12.67	97.47	86.72	2
5092.09	0.0161	8.73	13.3	100.8	81.3	2
5092.25	0.0185	9.38	12.11	102.91	79.1	2
5092.42	0.0176	10.04	12.32	107.53	79.29	2
5092.59	0.019	9.73	13.5	109.57	83.4	2
5092.75	0.0196	10.33	12.93	111.92	81.76	2
5092.92	0.021	9.96	10.3	113.33	85.6	2
5093.09	0.0213	10.65	8.24	112.73	80.44	2
5093.25	0.0198	11.65	5.86	111.73	72.84	2
5093.42	0.0203	10.24	9.58	109.84	80.29	2
5093.59	0.0204	11.18	8.53	109.78	74.01	2
5093.75	0.0211	11.05	8.77	108.87	74	2
5093.92	0.0209	10.9	8.69	107	73.11	2
5094.09	0.0209	10.94	8.87	103.43	69.34	2
5094.25	0.0217	11.67	7.29	99.42	60.54	2
5094.42	0.0168	11.57	9.03	96.58	58.41	2
5094.51	0.0126	15.42	2	107.9	48.95	3
5094.68	0.0125	13.47	4.98	108.65	62.58	3
5094.84	0.0141	12.46	6.71	108.07	68.64	3
5095.01	0.015	12.9	6.85	106.96	64.63	3
5095.18	0.0159	11.94	6.77	104.44	68.5	3
5095.34	0.0157	12.49	5.63	103.87	64.31	3
5095.51	0.0152	11.8	6.21	102.7	67.69	3

5095.68	0.0152	12.35	4.2	103.99	65.31	3
5095.84	0.0153	12.94	2.35	101.21	58.73	3
5096.01	0.0187	11.47	3.39	102.45	69.62	3
5096.18	0.02	10.52	2.94	100.33	73.74	3
5096.34	0.0184	10.92	2.6	99.25	70.03	3
5096.51	0.018	11.17	4.55	98.59	67.76	3
5096.68	0.0188	9.81	6.41	98.05	76.16	3
5096.84	0.0186	10.62	4.59	97.5	70.31	3
5097.01	0.0186	9.87	4.39	97.53	75.27	3
5097.18	0.0193	8.54	4.83	98.02	84.51	3
5097.34	0.0174	10.46	4.03	100.22	74.08	3
5097.51	0.0182	9.48	5.28	101	81.27	3
5097.68	0.0184	9.84	7.33	102.38	80.27	3
5097.84	0.0188	9.75	9.29	102.3	80.78	3
5098.01	0.0186	9.34	11.04	104.81	85.95	3
5098.18	0.0203	8.84	11.66	106.36	90.8	3
5098.34	0.0199	9.58	12.42	109.22	88.75	3
5098.51	0.0207	9.29	12.47	108.96	90.4	3
5098.68	0.0224	8.76	10.61	108.55	93.49	3
5098.84	0.0232	8.86	9.75	109	93.27	3
5099.01	0.0252	7.85	10.67	107.21	98.15	3
5099.18	0.0268	8.22	10.07	104.45	93	3
5099.34	0.0259	8.69	10.29	100.55	86.01	3
5099.51	0.0271	6.8	10.51	95.35	88.63	3
5099.68	0.0263	6.05	11.24	91.32	84.85	3
5099.84	0.0268	4.83	9.28	87.83	81.56	3
5100.01	0.0287	4.65	7.9	88.39	82.09	3
5100.18	0.0258	5.42	8.63	88.32	82.02	3
5100.34	0.023	6.01	8.83	89.4	83.04	3
5100.51	0.0236	4.98	8.38	89.35	82.99	3
5100.68	0.0221	4.06	9.39	89.53	83.16	3
5100.84	0.0207	4.78	10.95	88.69	82.37	3
5101.01	0.0188	5.09	10.9	86.54	80.34	3
5101.01	0.0188	5.09	10.9	86.54	80.34	3
5101.18	0.0187	6.14	9.65	86.54	80.35	3
5101.34	0.0153	6.48	8.73	85.44	79.31	3
5101.51	0.0145	6.34	6.76	85.17	79.06	3
5101.68	0.0151	6.55	6.8	87.09	80.86	3
5101.84	0.0145	8.16	5.67	89.95	79.01	3
5102.01	0.014	8.65	5.05	92.87	78.69	3
5102.18	0.0129	7.77	7.41	91.59	83.21	3
5102.34	0.0158	7.49	5.76	89.12	82.65	3
5102.51	0.0148	7.06	5.02	82.85	76.88	3
5102.68	0.0143	7.45	4.69	77.03	70.9	3
5102.84	0.0151	7.5	5.19	72.54	66.11	3
5103.01	0.0138	6.88	4.4	67.67	62.61	3
5103.18	0.0131	6.29	6.16	66.07	61.11	3

5103.34	0.0116	5.91	7.04	64.18	59.33	3
5103.51	0.0131	5.67	8.78	65.34	60.42	3
5103.68	0.014	6.14	9.94	67.63	62.57	3
5103.84	0.0136	5.9	11.89	71.89	66.58	3
5104.01	0.0135	6.2	11.29	72.39	67.05	3
5104.18	0.0138	7.04	11.2	73.44	68.03	3
5104.34	0.0131	7.46	9.17	74.41	68.23	3
5104.51	0.0124	8.3	7.7	77.17	65.45	3
5104.68	0.0142	10.05	7.45	84.71	61.39	3
5104.84	0.015	10.59	8.54	93.86	66.92	3
5105.01	0.0168	11.6	8.15	102.17	68.44	3
5105.18	0.0206	11.15	9.94	112.36	81.51	3
5105.34	0.0211	10.99	8.26	116.71	86.88	3
5105.51	0.0216	12.29	6.75	120.05	81.66	3
5105.68	0.021	13.83	4.87	123.54	74.94	3
5105.84	0.02	14.37	5.3	125.18	73.02	3
5106.01	0.0194	14.95	4.95	123.01	67.06	3
5106.18	0.0185	14.95	5.51	122.9	66.96	3
5106.34	0.0189	14.54	6.97	121.37	68.14	3
5106.51	0.0187	13.67	9.15	120.27	72.77	3
5106.68	0.0166	13.46	9.11	115.96	69.9	3
5106.84	0.0155	12.63	8.63	112.17	71.59	3
5107.01	0.0138	12.46	8.63	105.6	66.19	3
5107.18	0.0131	12.03	7.26	99.79	63.29	3
5107.34	0.0104	13.7	5.07	93.29	45.86	3
5107.51	0.0114	14.4	3.9	91.3	39.3	3
5107.68	0.0106	13.29	5.39	89.56	44.84	3
5107.84	0.0116	12.14	6.1	86.32	49.22	3
5108.01	0.0116	11.4	5.33	85.35	53.12	3
5108.18	0.0112	10.18	5.46	84.01	59.84	3
5108.34	0.0133	9.31	5.86	83.46	65.05	3
5108.51	0.0118	9.64	5.61	82.41	61.84	3
5108.68	0.0124	10.02	4.06	80.12	57.05	3
5108.84	0.0144	9.04	5.04	80.58	63.96	3
5109.01	0.0139	7.87	7.43	79.23	70.3	3
5109.18	0.0145	8.14	7.69	81.92	71.2	3
5109.34	0.0147	8.86	9.02	84.86	69.35	3
5109.51	0.0134	9.1	10.21	88.5	71.41	3
5109.68	0.0135	9.25	10.44	90.86	72.74	3
5109.84	0.0144	8.89	9.35	92.98	77.25	3
5110.01	0.0119	9.43	11.53	94.9	75.54	3
5110.18	0.0124	9.72	10.65	95.02	73.74	3
5110.34	0.0137	10.31	9.82	96.44	71.32	3
5110.51	0.0148	9.73	9.6	98.01	76.66	3
5110.68	0.0152	9.79	10.08	99.9	78.17	3
5110.84	0.0151	10.94	8.82	102.07	72.74	3
5111.01	0.0153	10.93	8.82	104.85	75.51	3

5111.18	0.0164	11.49	8.77	105.98	73	3
5111.34	0.0167	11.44	7.98	105.6	72.95	3
5111.51	0.0166	10.22	7.84	104.35	79.72	3
5111.68	0.0196	8.62	8.52	103.51	89.46	3
5111.84	0.0196	7.65	9.76	102.98	95.27	3
5112.01	0.0191	8.78	10.2	101.71	86.59	3
5112.18	0.0207	8.13	8.88	99.91	89.09	3
5112.34	0.0207	7.63	10.63	99.17	91.65	3
5112.51	0.0206	7.81	11.48	100.26	91.56	3
5112.68	0.0192	8.27	12.56	99.67	87.91	3
5112.84	0.0198	7.77	13.75	100.51	92.03	3
5113.01	0.0193	7.45	16.33	102.82	95.65	3
5113.18	0.0195	8	16.84	101.52	91.54	3
5113.34	0.0219	7.53	15.21	101.97	94.86	3
5113.51	0.022	6.93	16.44	103.69	96.47	3
5113.68	0.0206	8.18	16.29	104.53	93.37	3
5113.84	0.0189	9.36	14.45	103.01	84.08	3
5114.01	0.0183	9.74	14.4	101.46	80.01	3
5114.18	0.0188	9.07	14.47	100.4	83.35	3
5114.34	0.0189	9.48	13.01	102.63	82.91	3
5114.51	0.0192	8.41	14.66	104.15	91.45	3
5114.68	0.0193	9.56	12.45	102.03	81.8	3
5114.84	0.0195	9.45	13.03	101.23	81.71	3
5115.01	0.0181	9.99	9.83	98.16	75.08	3
5115.18	0.0185	8.98	8.82	94.9	78.54	3
5115.34	0.0181	8.45	8.37	93.73	80.84	3
5115.51	0.0161	9.4	9.39	92.92	73.82	3
5115.68	0.0151	9.78	8.11	88.65	67.04	3
5115.84	0.0171	8.96	5.95	86.96	70.83	3
5116.01	0.016	8.76	7.1	86.68	71.85	3
5116.18	0.0164	8.76	6.53	85.52	70.66	3
5116.34	0.0154	8.81	6.29	85.29	70.11	3
5116.51	0.0146	9.11	6.26	83.44	66.35	3
5116.68	0.0147	10.58	2.87	81.41	54.63	3
5116.84	0.0143	10.59	2.87	82.48	55.65	3
5117.01	0.0146	10.32	1.77	81.46	56.38	3
5117.18	0.0183	10.75	1.47	82.88	54.95	3
5117.34	0.0196	10.94	0.89	83.31	54.15	3
5117.51	0.0203	12	0.49	84.53	48.4	3
5117.68	0.0196	10.86	1.46	82.64	54.02	3
5117.84	0.0199	11.17	0.02	83.6	52.94	3
5118.01	0.0176	10.69	2.04	82.84	55.36	3
5118.18	0.0189	10.12	1.26	82.79	59.01	3
5118.34	0.0194	11.73	0.52	83.76	49.41	3
5118.51	0.02	11.61	1.12	83.48	49.9	3
5118.68	0.0192	11.6	1.96	84.46	50.92	3
5118.84	0.0186	11.6	2.24	86.5	52.94	3

5119.01	0.018	10.76	2.32	86.69	58.68	3
5119.18	0.0184	10.65	2.91	89.7	62.38	3
5119.34	0.0185	10.28	2.38	90.07	65.16	3
5119.51	0.0194	9.92	1.91	90.51	67.98	3
5119.68	0.0183	8.73	3.39	87.93	73.27	3
5119.84	0.018	9.32	2.19	88.17	69.62	3
5120.01	0.0171	7.76	5.47	87.95	79.66	3
5120.18	0.0181	8.42	5.12	89.71	77.09	3
5120.34	0.0193	7.56	5.22	92.05	85.08	3
5120.51	0.0184	5.87	6.61	92.91	86.34	3
5120.68	0.0175	6.22	7.05	94.46	87.79	3
5120.84	0.0193	5.51	8.85	95.13	88.43	3
5121.01	0.0191	6.08	8.5	95.34	88.62	3
5121.18	0.0213	6.13	9.36	95.85	89.1	3
5121.34	0.0221	6.9	7.87	95.2	88.49	3
5121.51	0.0186	5.94	11.75	94.64	87.96	3
5121.68	0.016	6.49	13.32	94.98	88.28	3
5121.84	0.0155	7.84	11.75	97.13	88.25	3
5122.01	0.0163	7.75	10.91	96.95	88.66	3
5122.18	0.0184	9.47	8.19	98.37	78.74	3
5122.34	0.0175	8.91	10.04	97.67	81.76	3
5122.51	0.019	9.18	9.74	95.65	77.97	3
5122.68	0.0213	8.75	9.74	95.48	80.6	3
5122.84	0.0239	7.97	9.85	94.57	84.86	3
5123.01	0.0242	8.46	8.37	94.78	81.81	3
5123.18	0.024	7.18	11.64	94.16	87.51	3
5123.34	0.0233	6.82	11.4	92.53	85.98	3
5123.51	0.0224	6.38	12.08	91.53	85.04	3
5123.68	0.0236	7.33	9.88	92.45	85.9	3
5123.84	0.0259	5.67	11.78	92.81	86.24	3
5124.01	0.0267	3.45	14.29	93.04	86.46	3
5124.18	0.0277	2.76	15.8	96.39	89.61	3
5124.34	0.028	0.32	20.04	98.16	91.27	3
5124.51	0.0304	0	20.09	101.09	94.02	3
5124.68	0.0284	0.57	21.14	104.43	97.16	3
5124.84	0.0264	2.59	20.05	106.53	99.14	3
5125.01	0.0243	3.05	21.4	111.23	103.55	3
5125.18	0.0234	4.85	21.48	112.53	104.78	3
5125.34	0.025	4.67	20.45	114.85	106.96	3
5125.51	0.0255	4.37	21.33	118.85	110.72	3
5125.68	0.0251	4.73	20.93	121.53	113.23	3
5125.84	0.0265	3.63	23.32	123.91	115.48	3
5126.01	0.0264	5.08	21.47	125.19	116.68	3
5126.18	0.0291	5.45	20.04	127.07	118.45	3
5126.34	0.0285	6.36	18.59	127.23	118.6	3
5126.51	0.029	7.12	17.94	128.11	119.43	3
5126.68	0.028	7.94	13.79	126.79	116.93	3

5126.84	0.0281	7.48	13.27	125.05	116.55	3
5127.01	0.0292	6.24	13.42	123.9	115.47	3
5127.18	0.0293	6.94	11.35	121.77	113.47	3
5127.34	0.0311	5.48	9.59	120.97	112.71	3
5127.51	0.0306	6.03	10.01	119	110.86	3
5127.68	0.0302	6.02	11.14	116.68	108.68	3
5127.84	0.0298	6.68	11.07	115.29	107.37	3
5128.01	0.0293	7.79	7.54	112.02	103.29	3
5128.18	0.0279	7.63	7.27	110	102.39	3
5128.34	0.0262	8.92	6.31	109.36	93.23	3
5128.51	0.026	9.08	6.22	108.64	91.44	3
5128.68	0.0252	11.41	2.84	107.62	75.09	3
5128.84	0.024	11.54	6.49	107.79	74.4	3
5129.01	0.0248	11.43	7.08	108.78	76.14	3
5129.18	0.0254	11	9.68	110.78	80.95	3
5129.34	0.0269	8.88	11.74	111.52	95.67	3
5129.51	0.027	7.95	14.07	111.67	101.94	3
5129.68	0.0265	8.73	12.56	113.94	98.99	3
5129.84	0.0261	10.08	11.56	115.83	92.03	3
5130.01	0.027	9.65	13.31	116	94.98	3
5130.18	0.0272	8.77	14.81	117.29	102.07	3
5130.34	0.0271	8.59	15.5	118.21	104.18	3
5130.51	0.0261	7.49	17.83	117.14	109.11	3
5130.68	0.0266	6.12	19.97	116.3	108.32	3
5130.84	0.0251	5.37	21.17	115.78	107.83	3
5131.01	0.0253	6.02	21.1	115.61	107.68	3
5131.18	0.0233	7.19	20.39	115.95	107.99	3
5131.34	0.0228	7.75	17.83	114.77	106.32	3
5131.51	0.0229	9.4	14.99	114.6	95.3	3
5131.68	0.0205	9.79	15.21	115.26	93.32	3
5131.84	0.0208	9.41	15.25	113.7	94.29	3
5132.01	0.0206	9.26	13.56	113.63	95.24	3
5132.18	0.0192	7.87	13.42	113.59	104.36	3
5132.34	0.0184	8.94	13.67	114.13	97.81	3
5132.51	0.0186	9.81	11.21	114.9	92.84	3
5132.68	0.0185	10.39	10.3	115.31	89.41	3
5132.84	0.0193	10.6	8.86	115.32	88.07	3
5133.01	0.0209	10.33	7.2	115.16	89.68	3
5133.18	0.0212	10.04	5.6	112.94	89.42	3
5133.34	0.0233	9.46	5.11	111.02	91.34	3
5133.51	0.0221	9.68	7	109.66	88.5	3
5133.68	0.0216	9.19	8.47	107.78	89.88	3
5133.84	0.0229	9.47	7.88	105.08	85.39	3
5134.01	0.0227	8.19	11.56	103.76	92.53	3
5134.18	0.0243	6.89	14.27	104.04	96.8	3
5134.34	0.0271	8.11	12.74	103.93	93.18	3
5134.51	0.0275	7.98	12.67	103.87	94	3

5134.68	0.0276	7.29	14.46	103.89	96.65	3
5134.84	0.0274	7.1	14.76	106.06	98.69	3
5135.01	0.0257	8.51	12.93	106.56	93.19	3
5135.18	0.0243	9.34	13.96	105.65	86.78	3
5135.34	0.023	8.26	14.58	104.52	92.77	3
5135.51	0.0194	7.68	18.01	100.89	93.05	3
5135.68	0.0199	7.04	16.67	96.43	89.65	3
5135.84	0.017	7.36	16.04	91.42	84.94	3
5136.01	0.0136	7.2	13.81	86.05	79.89	3
5136.18	0.0121	8.43	8.99	79.6	67	3
5136.34	0.0104	8.68	6.97	71.06	56.91	3
5136.51	0.0066	7.85	8.17	64.38	55.72	3
5136.68	0.0046	6.29	7.75	56.79	52.38	3
5136.84	0.0025	6.89	6.81	49.85	45.86	3
5137.01	0.0014	7.05	5.71	42.17	38.64	3
5137.18	0.0015	7.01	5.68	38.5	35.19	3
5137.34	0.0021	4.75	5.94	34.92	31.83	3
5137.51	0.0035	4.92	5.65	33.71	30.69	3
5137.68	0.0052	5.62	2.76	35.05	31.95	3
5137.84	0.0048	6.58	1.8	38.5	35.19	3
5138.01	0.0063	5.7	3.42	43.51	39.9	3
5138.18	0.0083	6.25	6.46	51	46.94	3
5138.34	0.0102	6.88	6.68	58.22	53.73	3
5138.51	0.0085	7.46	6.89	62.94	56.93	3
5138.68	0.0087	8.08	8.23	66.85	56.66	3
5138.84	0.0118	9.19	7.29	72.4	54.86	3
5139.01	0.0155	8.4	8.05	77.73	65.35	3
5139.18	0.017	7.96	8.89	81.11	71.56	3
5139.34	0.0189	7.17	10.13	84.32	78.26	3
5139.51	0.0231	7.69	9.82	88.93	81.13	3
5139.68	0.0239	6.82	10.78	91.55	85.06	3
5139.84	0.0255	6.98	11.06	93.92	87.29	3
5140.01	0.0279	5.51	13.32	95.07	88.36	3
5140.18	0.0281	5.78	13.48	95.86	89.1	3
5140.34	0.0321	4.32	13.67	96.92	90.11	3
5140.51	0.0322	3.35	15.19	98.93	92	3
5140.68	0.033	2.56	16.71	100.69	93.65	3
5140.84	0.0348	1.82	15.78	102.73	95.57	3
5141.01	0.0342	1.46	15.25	102.76	95.59	3
5141.18	0.0318	2.24	14.5	103.18	95.99	3
5141.34	0.0305	3.3	13.52	103.86	96.63	3
5141.51	0.0282	3.24	13.51	102.35	95.21	3
5141.68	0.0231	3.77	13.41	100.15	93.14	3
5141.84	0.0211	5.46	12.12	99.66	92.68	3
5142.01	0.02	4.71	12.47	98.59	91.67	3
5142.18	0.0185	4.93	11.21	99.2	92.25	3
5142.34	0.0178	5.24	9.75	98.83	91.9	3

5142.51	0.0144	7.13	6.4	96.48	89.69	3
5142.68	0.0148	7.13	6.12	93.84	87.21	3
5142.84	0.0168	7.84	3.54	91.39	82.54	3
5143.01	0.0162	7.86	2.3	90.23	81.28	3
5143.18	0.0135	9.11	2.42	89.36	72.18	3
5143.34	0.0134	9.61	0.95	88.86	68.39	3
5143.51	0.0141	10.08	0.62	89.55	65.99	3
5143.68	0.0158	9.91	3.2	91.9	69.4	3
5143.84	0.0197	9.31	3.64	93.7	75.17	3
5144.01	0.0216	8.66	4.81	95.38	81.13	3
5144.18	0.0203	9.44	3.87	96.86	77.42	3
5144.34	0.02	10.51	2.62	97.37	70.93	3
5144.51	0.0223	10.34	4.92	98.3	72.93	3
5144.68	0.0237	9.65	5.57	98.81	77.97	3
5144.84	0.0239	9.36	6.84	99.27	80.34	3
5145.01	0.0244	9.1	8.81	102.3	85.04	3
5145.18	0.0258	9.56	8.49	104.12	83.82	3
5145.34	0.029	9.27	11.94	107.85	89.46	3
5145.51	0.0287	8.97	12.82	107.31	90.87	3
5145.68	0.0293	7.92	13.5	107.94	98.42	3
5145.84	0.0282	8.49	10.37	107.2	93.94	3
5146.01	0.0259	8.96	10.8	106.42	90.04	3
5146.18	0.0242	8.97	11.64	106.89	90.48	3
5146.34	0.0278	9.59	11.32	108.3	87.79	3
5146.51	0.0266	9.19	13.33	108.17	90.31	3
5146.68	0.0249	9.52	11.87	107.65	87.62	3
5146.84	0.0252	8.97	12.27	106.99	90.59	3
5147.01	0.0236	9.46	11.26	105.93	86.31	3
5147.18	0.0199	10.01	9.19	104.11	80.86	3
5147.34	0.0192	8.83	12.43	104.24	88.77	3
5147.51	0.0161	8.91	10.42	104.09	88.12	3
5147.68	0.0161	9.16	11.81	106.96	89.27	3
5147.84	0.017	8.79	11.93	107.58	92.3	3
5148.01	0.0181	8.95	11.58	107.17	90.9	3
5148.18	0.0178	9.99	11.18	108.26	85.09	3
5148.34	0.0186	10.2	9.75	106.71	82.19	3
5148.51	0.0163	8.87	12.14	104.42	88.71	3
5148.68	0.0169	9.14	12.11	102.29	84.78	3
5148.84	0.0174	10.2	10.59	101.67	77.2	3
5149.01	0.0151	9.9	12.64	100.98	78.48	3
5149.18	0.0157	9.88	13.21	102.47	80.07	3
5149.34	0.0177	9.16	15.29	102.23	84.57	3
5149.51	0.0166	11.02	12.54	101.49	71.64	3
5149.68	0.0207	10.31	12.36	101.59	76.38	3
5149.84	0.0206	8.59	14.08	100.07	86.19	3
5150.01	0.0196	8.68	13.99	98.71	84.26	3
5150.18	0.017	8.58	15.97	98.23	84.44	3

5150.34	0.0189	7.05	16.44	98.05	91.17	3
5150.51	0.0193	5.96	19.11	99.32	92.36	3
5150.68	0.0199	7.33	15.86	101.37	94.29	3
5150.84	0.0217	6.84	15.92	103.9	96.67	3
5151.01	0.0211	5.74	16.39	106.94	99.52	3
5151.18	0.0215	6.77	15.04	111.46	103.77	3
5151.34	0.0218	9.09	11.66	114.32	97.04	3
5151.51	0.022	10.54	9.52	116.81	89.97	3
5151.68	0.0221	9.85	11.02	118.98	96.63	3
5151.84	0.0204	10.29	10.46	117.51	92.3	3
5152.01	0.0215	11.53	8.52	116.6	83.23	3
5152.18	0.0212	11.31	10.23	116.47	84.54	3
5152.34	0.0228	11.5	9.38	117.03	83.85	3
5152.51	0.0213	12.17	9.58	116.2	78.61	3
5152.68	0.0214	12.94	8.36	116.74	74.05	3
5152.84	0.0219	12.08	10.23	115.44	78.45	3
5153.01	0.0195	12.32	9.05	113.94	75.41	3
5153.18	0.0193	12.18	9.84	111.3	73.68	3
5153.34	0.0205	11.04	9.98	108.11	78.04	3
5153.51	0.0189	9.1	13.87	104.28	87	3
5153.68	0.0189	8.23	15.38	103.66	92.17	3
5153.84	0.0199	7.87	14.37	101.81	92.67	3
5154.01	0.0198	6.51	15.3	102.37	95.22	3
5154.18	0.022	6.12	14.8	103.47	96.26	3
5154.34	0.0227	6.61	13.05	102.87	95.69	3
5154.51	0.0248	6.19	12.76	103.7	96.48	3
5154.68	0.0249	6.02	12.45	104.15	96.9	3
5154.84	0.025	5.72	11.77	103.18	95.99	3
5155.01	0.0241	5.45	11.57	103.04	95.85	3
5155.18	0.0256	4.83	12.72	103.02	95.84	3
5155.34	0.0272	4.7	12.24	103.02	95.84	3
5155.51	0.0275	5.23	12.59	103.21	96.02	3
5155.63	0.0288	6.41	18.46	109.4	101.83	4
5155.8	0.0279	6.9	20	109.32	101.76	4
5155.97	0.0292	7.73	17.91	110.57	102.24	4
5156.13	0.0275	8.04	17.35	112.15	101.78	4
5156.3	0.0297	8.42	16.32	113	100.15	4
5156.47	0.0326	7.34	16.17	113.69	105.87	4
5156.63	0.0324	7.22	15.92	112.8	105.03	4
5156.8	0.0322	8.38	14.66	117.27	104.66	4
5156.97	0.0298	7.23	17.04	118.27	110.17	4
5157.13	0.0314	7.51	15.88	119.73	111.54	4
5157.3	0.0287	8.19	17.85	121.48	110.02	4
5157.47	0.0311	8.75	16.66	122.22	107.08	4
5157.63	0.0337	7.47	16.13	121.22	112.94	4
5157.8	0.0353	6.91	15.08	119.26	111.11	4

5157.97	0.0387	6.5	15.16	121.98	113.66	4
5158.13	0.0374	6.87	15.95	122.39	114.05	4
5158.3	0.0395	7.37	15.41	124.04	115.6	4
5158.47	0.0368	7.56	15.02	123.75	115.33	4
5158.63	0.0331	9.04	13.97	123.88	106.85	4
5158.8	0.0321	9.15	13.39	124.41	106.61	4
5158.97	0.0303	9.63	14.16	122.53	101.62	4
5159.13	0.0299	10.53	11.23	120.8	93.93	4
5159.3	0.0295	9.9	11.39	120.98	98.29	4
5159.47	0.031	10.24	10.43	121.31	96.35	4
5159.63	0.0289	10.22	13.25	121.31	96.54	4
5159.8	0.0261	10.92	12.3	121.22	91.79	4
5159.97	0.0245	10.87	11.45	119.52	90.48	4
5160.13	0.0212	10.47	10.41	116.59	90.21	4
5160.3	0.0209	9.34	10.82	112.92	94.02	4
5160.47	0.0196	8.86	9.67	108.87	93.12	4
5160.63	0.0183	8.19	11.42	105.73	94.48	4
5160.8	0.018	7.15	11.54	101.66	94.56	4
5160.97	0.0191	7.06	10.99	99.42	92.45	4
5161.13	0.0182	7.32	10.17	96.31	89.53	4
5161.3	0.0177	7.13	10.47	95.07	88.36	4
5161.47	0.0158	8.39	8.52	92.9	80.42	4
5161.63	0.0155	8.5	7.94	89.84	76.68	4
5161.8	0.0178	8.25	5.16	89.15	77.67	4
5161.97	0.019	9.14	4	90.16	72.8	4
5162.13	0.0185	10.77	2.11	92.49	64.32	4
5162.13	0.0185	10.77	2.11	92.49	64.32	4
5162.3	0.0191	11.34	1.12	92.26	60.4	4
5162.47	0.0213	11.43	0	94.87	62.38	4
5162.63	0.0225	10.72	1.78	98.12	70.26	4
5162.8	0.026	11.17	0.92	102.81	71.96	4
5162.97	0.0264	12.95	0.72	105.97	63.34	4
5163.13	0.0263	12.24	3.75	109.18	71.17	4
5163.3	0.0303	11.4	3.52	112.71	80.21	4
5163.47	0.0318	10.89	4.71	113.96	84.82	4
5163.63	0.032	10.62	4.18	112.85	85.51	4
5163.8	0.0304	9.58	5.42	110.03	89.55	4
5163.97	0.0292	9.22	6.09	104.78	86.74	4
5164.13	0.0284	9.3	5.45	97.84	79.36	4
5164.3	0.0278	7.2	7.38	90.5	84.07	4
5164.47	0.0255	7.01	8.52	85.11	79.01	4
5164.63	0.0226	7.37	6.75	80.66	74.82	4
5164.8	0.0211	7.12	6.55	74.94	69.45	4
5164.97	0.0189	5.61	8.12	71.11	65.84	4
5165.13	0.0185	3.81	9.16	68.4	63.29	4
5165.3	0.0176	4.61	6.68	65.96	61	4
5165.47	0.0143	5.28	7.71	63.19	58.4	4

5165.63	0.0151	4.6	8.73	64.31	59.46	4
5165.8	0.0153	4	10.78	66.09	61.12	4
5165.97	0.0156	4.38	10.17	70.7	65.46	4
5166.13	0.0159	5.33	8.57	76.78	71.17	4
5166.3	0.0158	6.18	8.77	83.43	77.42	4
5166.47	0.017	6.73	8.71	89.78	83.39	4
5166.63	0.0176	7.53	6.08	94.5	87.68	4
5166.8	0.0195	6.92	8.51	97.77	90.9	4
5166.97	0.0197	8.53	6.85	100.35	86.88	4
5167.13	0.0192	9.17	7.9	102.21	84.5	4
5167.3	0.0198	9.72	8.42	104.27	82.93	4
5167.47	0.0192	10.58	7.75	103.9	76.87	4
5167.63	0.02	9.77	7.07	106.09	84.38	4
5167.8	0.0196	11.47	6.79	107.43	74.56	4
5167.97	0.0204	10.5	7.76	106.91	80.42	4
5168.13	0.0194	10.58	9.17	105.87	78.84	4
5168.3	0.0199	10.22	12.88	106.79	82.13	4
5168.47	0.0196	9.32	12.74	104.48	85.76	4
5168.63	0.0198	10.01	11.26	102.29	79.1	4
5168.8	0.0221	8.5	14.56	103.99	90.66	4
5168.97	0.0211	9.93	12.89	104.82	82.07	4
5169.13	0.0215	9.71	14.34	106.61	85.29	4
5169.3	0.0243	10.25	10.68	105.81	80.97	4
5169.47	0.0255	10.17	9	105.75	81.41	4
5169.63	0.0281	8.4	11.48	108.32	95.6	4
5169.8	0.0295	8.35	12	110.37	97.97	4
5169.97	0.029	8.37	11.43	109.94	97.44	4
5170.13	0.0302	8.59	9.49	109.15	95.17	4
5170.3	0.0321	8.12	8.13	108.74	97.86	4
5170.47	0.0321	7.31	6.52	106.36	98.98	4
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5170.97	0.0312	5.93	8.31	103.4	96.2	4
5171.13	0.031	5.1	9.61	101.1	94.03	4
5171.3	0.0309	4.06	10.29	98.47	91.56	4
5171.47	0.0291	4.31	11.61	96.83	90.02	4
5171.63	0.0272	4.78	12.39	95.04	88.33	4
5171.8	0.0236	5.7	10.56	91.6	85.1	4
5171.97	0.0245	5.84	9.18	89.19	82.84	4
5172.13	0.0228	5.4	8.93	83.92	77.88	4
5172.3	0.0217	5.84	10.23	84.66	78.58	4
5172.47	0.0211	5.42	12.82	84.52	78.45	4
5172.63	0.0226	5.98	12.21	84.69	78.61	4
5172.8	0.0229	5.63	10.84	84.21	78.16	4
5172.97	0.0219	6.11	12.55	85.25	79.13	4
5173.13	0.0231	6.02	12.01	86.17	80	4
5173.3	0.0239	5.89	11.68	88.61	82.29	4

5173.47	0.0245	7.44	8.68	89.67	83.29	4
5173.63	0.0239	7.83	8.34	91.49	82.74	4
5173.8	0.0264	6.27	10.06	94.7	88.02	4
5173.97	0.0297	5.81	12.11	98.69	91.77	4
5174.13	0.0294	6.24	13.15	101.37	94.29	4
5174.3	0.0307	6.72	11.97	105.12	97.81	4
5174.47	0.0297	7.2	12.21	105.78	98.43	4
5174.63	0.0314	8.75	8.65	108.71	93.73	4
5174.8	0.0306	7.8	9.7	110.7	101.96	4
5174.97	0.0292	8.93	10.41	114.25	98.03	4
5175.13	0.0305	7.91	11.89	118.07	108.5	4
5175.3	0.0309	8.06	13.57	119.85	109.27	4
5175.47	0.0303	6.8	16.26	120.48	112.25	4
5175.63	0.0293	6.13	19.53	121.32	113.04	4
5175.8	0.0303	6.5	18.93	122.53	114.18	4
5175.97	0.0283	8.63	16.59	123.12	108.76	4
5176.13	0.0276	8.95	15.14	125.05	108.56	4
5176.3	0.0286	8.57	14.62	123.17	109.19	4
5176.47	0.03	8.17	15.24	123.52	112.2	4
5176.63	0.0313	8.03	13.63	123.67	113.3	4
5176.8	0.0323	5.91	15.57	121.88	113.57	4
5176.97	0.0307	7.36	14.16	118.71	110.59	4
5177.13	0.0303	6.93	12.51	113.87	106.04	4
5177.3	0.0305	7.21	12.18	110.29	102.67	4
5177.47	0.0286	8.39	10.9	108.2	95.6	4
5177.63	0.0281	9.74	9.05	106.29	84.77	4
5177.8	0.026	9.67	9.33	106.34	85.32	4
5177.97	0.0253	8.43	10.88	105.74	92.9	4
5178.13	0.0266	7.54	12.41	105.09	97.78	4
5178.3	0.0259	8.1	12.9	102.24	91.61	4
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5180.8	0.0325	12.41	5.33	121.06	81.87	4
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5181.97	0.0225	12.14	5.28	104.26	66.98	4
5182.13	0.0216	11.65	6.46	105.17	71.09	4
5182.3	0.0205	10.83	6.26	103.93	75.32	4
5182.47	0.021	11.65	4.25	103.48	69.43	4
5182.63	0.0187	11.19	5.41	100.12	69.17	4
5182.8	0.017	11.15	5.93	97.58	66.9	4
5182.97	0.0161	10.29	7.72	95.23	70.26	4
5183.13	0.0152	10.3	7.43	93.02	67.96	4
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5184.13	0.0162	8.48	5.72	80.37	67.45	4
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5184.8	0.0161	6.34	7.32	69.47	64.31	4
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5185.13	0.0161	5.62	6.61	67.99	62.91	4
5185.3	0.0174	4.74	7.57	69.28	64.12	4
5185.47	0.0195	4.61	7.22	71.37	66.09	4
5185.63	0.0185	4.33	7.53	72.82	67.45	4
5185.8	0.0199	4.71	6.65	78.38	72.68	4
5185.97	0.0175	5.8	5.09	80.61	74.77	4
5186.13	0.0184	6.01	4.84	83.33	77.33	4
5186.3	0.0208	5.37	4.89	85.53	79.4	4
5186.47	0.0216	6.53	2.79	88.23	81.93	4
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5186.8	0.0217	6.79	3.9	89.87	83.48	4
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5195.3	0.0215	4.09	17.86	103.53	96.32	4
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5196.47	0.0238	4.17	17.58	104.85	97.56	4
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5197.47	0.0262	7.6	13.54	114.63	106.75	4
5197.63	0.0264	7.51	13.55	115.79	107.84	4
5197.8	0.0303	6.33	14.08	117.77	109.7	4
5197.97	0.0277	6.04	16.07	118.56	110.45	4
5198.13	0.0276	6.59	15.65	117.65	109.59	4
5198.3	0.0283	6.16	17.97	118.93	110.79	4
5198.47	0.0291	7.26	14.17	117.7	109.64	4
5198.63	0.0266	7.57	14.12	114.45	106.59	4
5198.8	0.0271	7.13	14.25	110.89	103.24	4
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5199.13	0.0236	7.4	10.99	105.42	98.1	4
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5199.8	0.0206	9.26	10.52	102.75	84.47	4
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5202.3	0.0154	4.73	16.34	87.98	81.7	4
5202.47	0.0152	4.96	14.33	85.62	79.48	4
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5203.3	0.0132	6	12.18	89.37	83.01	4
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5204.3	0.0233	8.77	13.96	124.24	108.97	4
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5204.63	0.024	8.91	12.03	121.91	105.71	4

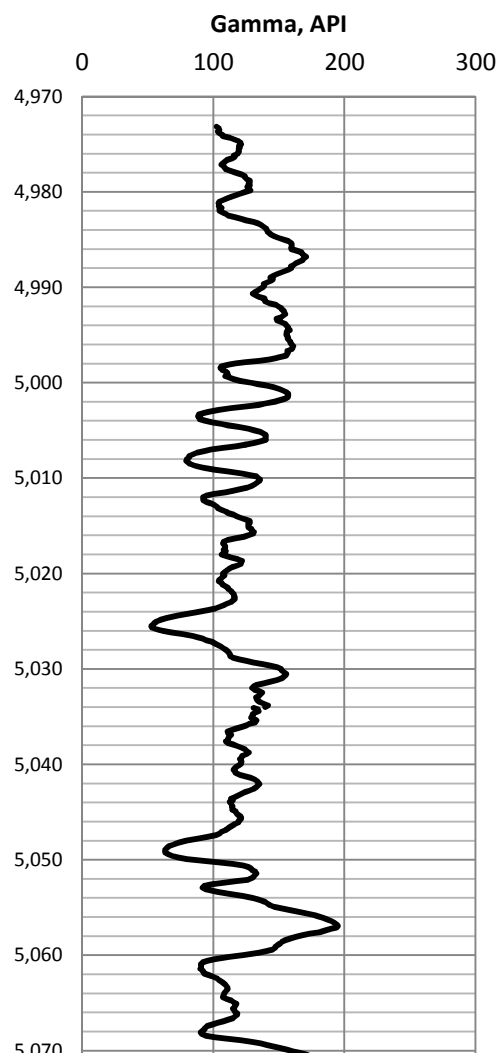
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5205.13	0.0233	8.33	11.71	114.33	102.05	4
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5205.8	0.0198	9.6	10.68	103.44	82.88	4
5205.97	0.0196	9.06	9.6	99.28	82.32	4
5206.13	0.0186	8.75	11.61	97.78	82.88	4
5206.3	0.0202	7.88	12.96	98.56	89.41	4
5206.47	0.0194	7.71	12.12	95.44	87.4	4
5206.63	0.0202	7.89	11.2	95.68	86.49	4
5206.8	0.0198	8.07	12.02	95.09	84.74	4
5206.97	0.0216	7.41	10.7	91.35	84.87	4
5207.13	0.0204	7.93	8.93	90.63	81.21	4
5207.3	0.0177	8.2	7.51	87.47	76.29	4
5207.47	0.0163	6.62	7.68	82.42	76.48	4
5207.63	0.0146	6.34	7.34	76.08	70.52	4
5207.8	0.0144	4.45	8.11	68.55	63.43	4
5207.97	0.0124	3.42	8.78	61.09	56.43	4
5208.13	0.0129	2.95	8.55	56.79	52.38	4
5208.3	0.0132	2.14	7.89	55.38	51.06	4
5208.47	0.0138	1.76	6.69	53.08	48.89	4
5208.63	0.0143	2.35	5.22	55.47	51.14	4
5208.8	0.0126	2.04	8.07	56.22	51.85	4
5208.97	0.0123	2.83	6.28	58.46	53.95	4
5209.13	0.0121	3.5	6.84	62.15	57.42	4
5209.3	0.0131	4.33	7.32	64.58	59.7	4
5209.47	0.0139	5.1	9.17	69.34	64.18	4
5209.63	0.0175	6.59	7.9	76.86	71.25	4
5209.8	0.0177	6.29	8.8	82.57	76.61	4
5209.97	0.0205	8.25	7.46	90.41	78.87	4
5210.13	0.0253	7.56	7.36	97.3	90.28	4
5210.3	0.0252	8.88	6.93	102.41	86.63	4
5210.47	0.0293	9.19	6.84	105.01	87.17	4
5210.63	0.027	11.85	6.53	107.66	72.25	4
5210.8	0.0264	11.65	7.39	108.58	74.47	4
5210.97	0.0265	12.19	5.12	109.65	71.97	4
5211.13	0.0272	11.62	5.19	107.99	74.1	4
5211.3	0.0253	11.62	5.1	106.37	72.52	4
5211.47	0.0252	11.43	5.41	104.59	72.01	4
5211.63	0.0264	10.43	2.98	103.34	77.37	4
5211.8	0.0235	10.61	4.92	102.32	75.14	4
5211.97	0.0252	11.21	3.51	102.78	71.67	4
5212.13	0.0259	9.87	3.95	102.32	79.98	4
5212.3	0.0244	9.67	5.03	101.41	80.43	4
5212.47	0.0225	10.56	3.78	100.02	73.17	4

5212.63	0.0207	11.08	2.58	98.49	68.27	4
5212.8	0.0201	10.05	2.4	95.06	71.62	4
5212.97	0.0216	9.6	2.25	95.21	74.76	4
5213.13	0.0222	8.86	4.55	96.25	80.65	4
5213.3	0.0205	9.73	4.44	99.07	77.73	4
5213.47	0.0224	9.97	4.98	103.75	80.75	4
5213.63	0.0226	9.58	7.69	108.17	87.74	4
5213.8	0.0241	9.51	9.97	109.51	89.48	4
5213.97	0.0248	8.45	11.22	110.74	97.72	4
5214.13	0.0239	8.52	11.42	111.05	97.54	4
5214.3	0.0233	8.92	10.81	109.95	93.84	4
5214.47	0.0222	10.55	9.77	108.19	81.37	4
5214.63	0.0215	10	11.58	107.41	84.2	4
5214.8	0.0225	9.5	12.78	108.73	88.82	4
5214.97	0.0235	9.11	12.55	110.48	93.09	4
5215.13	0.0219	8.99	13.33	109.04	92.44	4
5215.3	0.0198	10.04	12.27	105.79	82.35	4
5215.47	0.0213	9.12	13.6	104.47	87.08	4
5215.63	0.0198	9	13.7	101.58	85.03	4
5215.8	0.0199	8.69	11.86	97.67	83.18	4
5215.97	0.0173	9.19	10.88	96.48	78.71	4
5216.13	0.0161	10.44	7.31	92.83	66.83	4
5216.3	0.0144	10.92	7.58	89.87	60.76	4

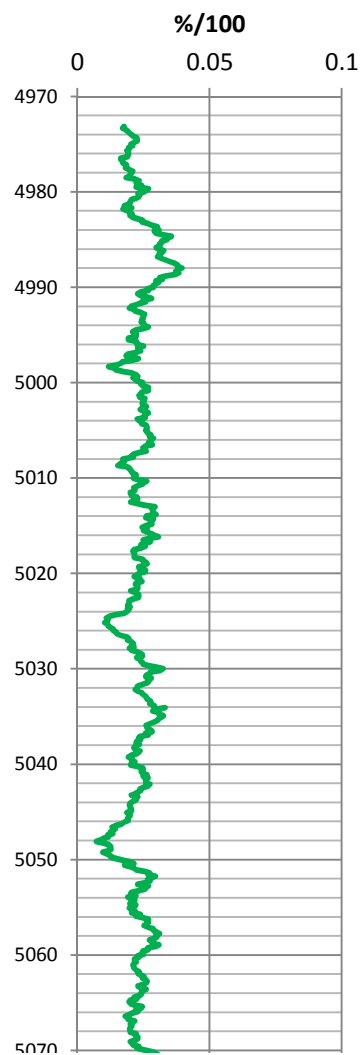


Company: Apache
Well Name: University 57-65 #1H
Location: 276' FSL & 330' FWL
County, State: Schleicher Co., Tx
Field: Holt Ranch
Formation: Dean / Wolfcamp
Coring Fluid: WBM
Elevation: 2509' GL / 2537.6' KB
File Number: HOU-121499 / 57181-20193
Date: 02/14/2013
API Number: 42-413-32866

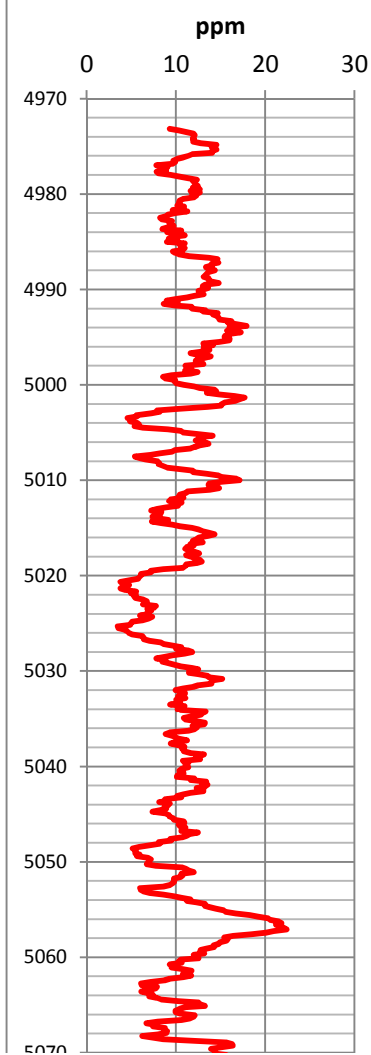
Spectral Gamma



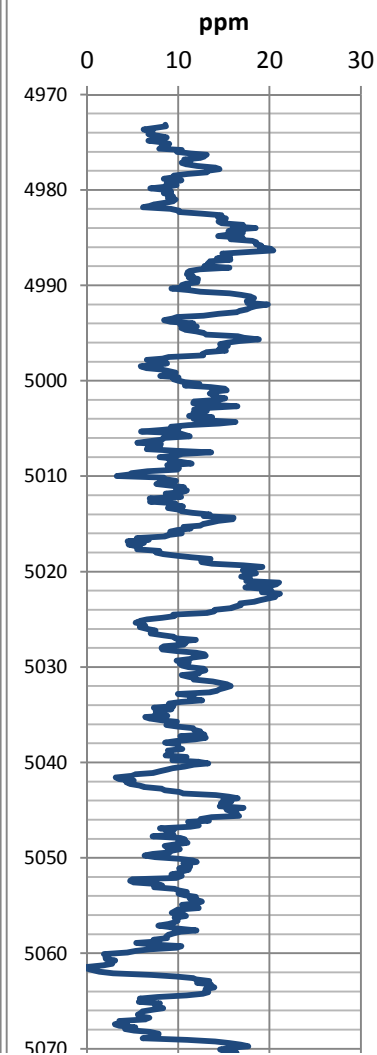
K, frac

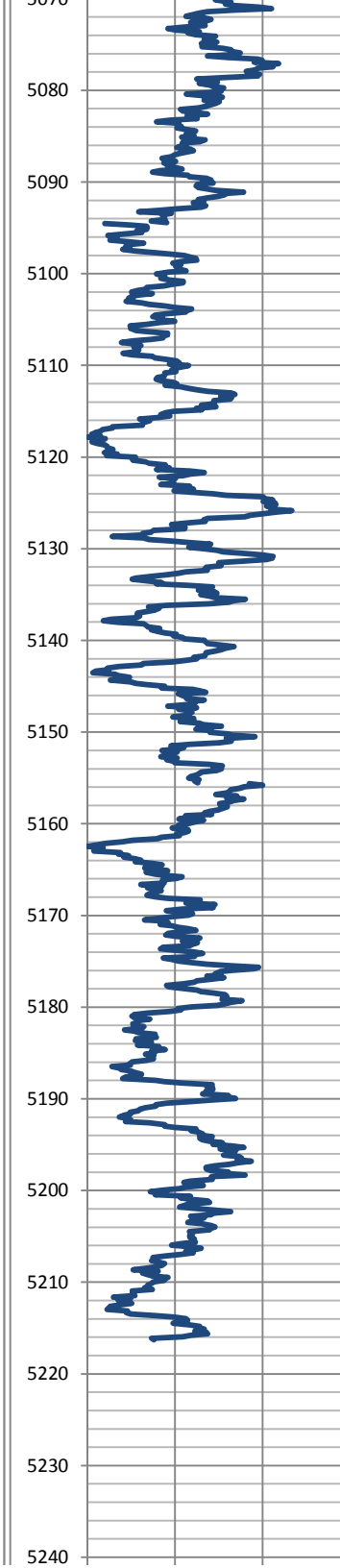
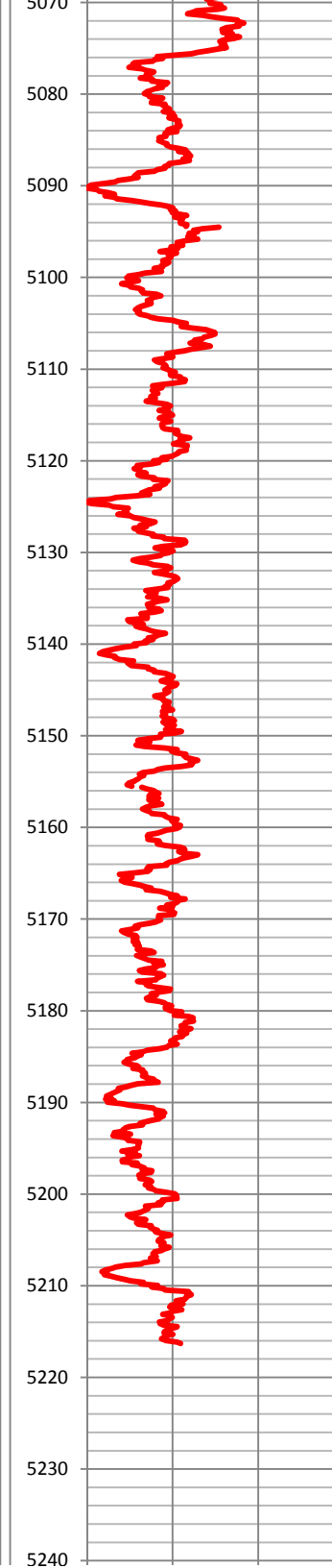
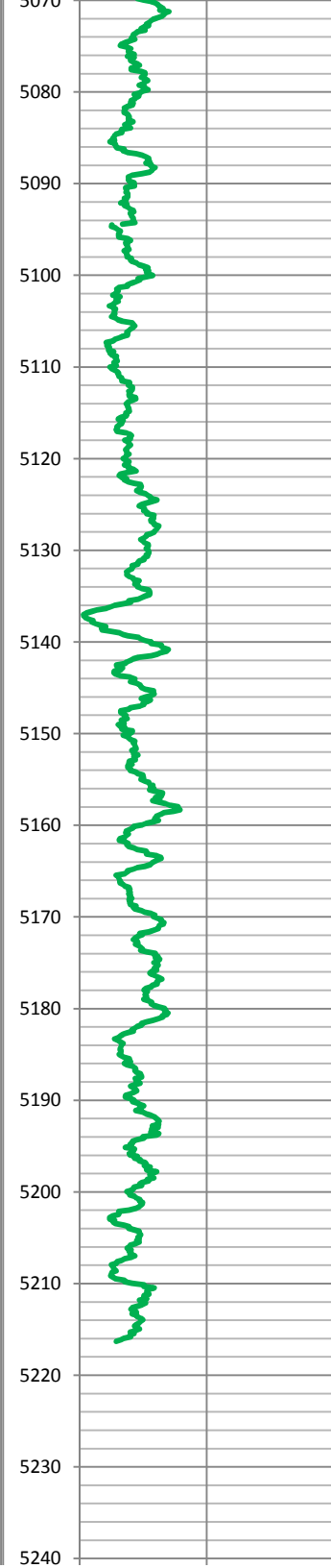
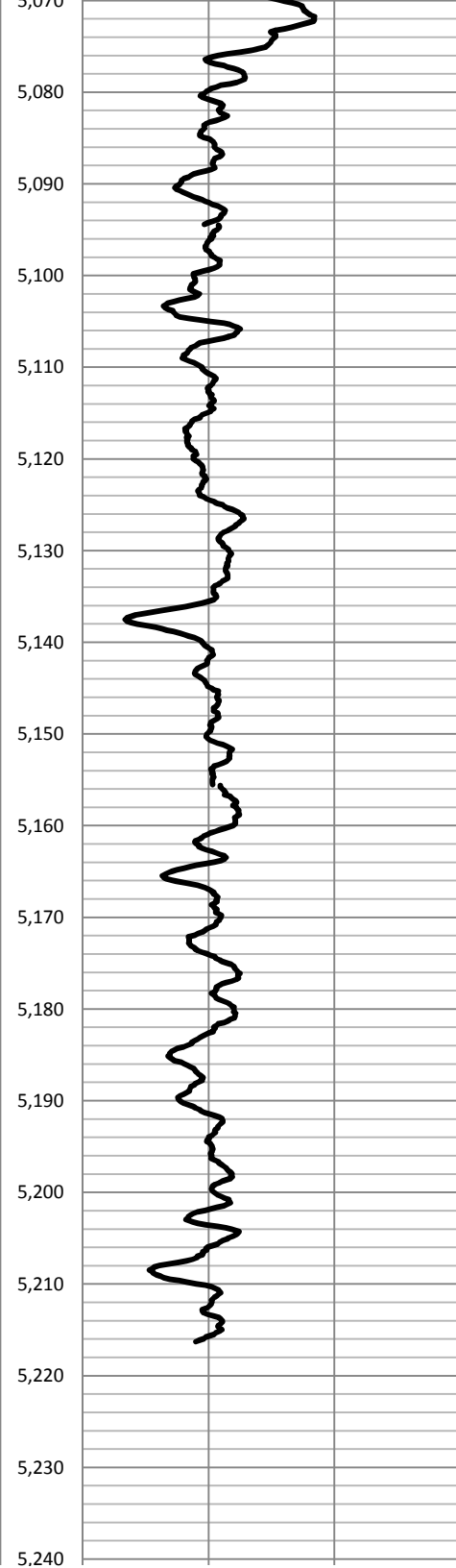


U, ppm



Thorium, ppm





5,210					5210					5210					5210				
5,250					5250					5250					5250				
5,260					5260					5260					5260				
5,270					5270					5270					5270				
5,280					5280					5280					5280				
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5,300					5300					5300					5300				
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5,350					5350					5350					5350				
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5,390					5390					5390					5390				
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[illegible]

5,590					5590					5590					5590				
5,600					5600					5600					5600				
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5,750					5750					5750					5750				

5,760					5760					5760					5760				
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5,780					5780					5780					5780				
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5,800					5800					5800					5800				
5,810					5810					5810					5810				
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5,910					5910					5910					5910				
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TRIAXIAL COMPRESSIVE TEST RESULTS

Company	Apache Corporation	Date	March, 2013
Well Name	University Lands 57-65 #1H	Job No.	HOU-121499
Field Name	Holt Ranch	Saturation Fluid	As Received
Location	Schleicher County, TX	Rock Type	Shale

Table 1 Triaxial Static Young's Modulus, Poisson's Ratio and Compressive Strength

Sample Number	Depth (ft)	Confining Pressure (psi)	Bulk Density (gm/cm ³)	Compressive Strength (psi)	Young's Modulus (10 ⁶ psi)	Poisson's Ratio
4V	5006.00	1570	2.556	17382	3.10	0.21
16V	5081.00	1570	2.749	31602	5.46	0.27



ACOUSTIC VELOCITIES AND DYNAMIC ELASTIC PARAMETERS

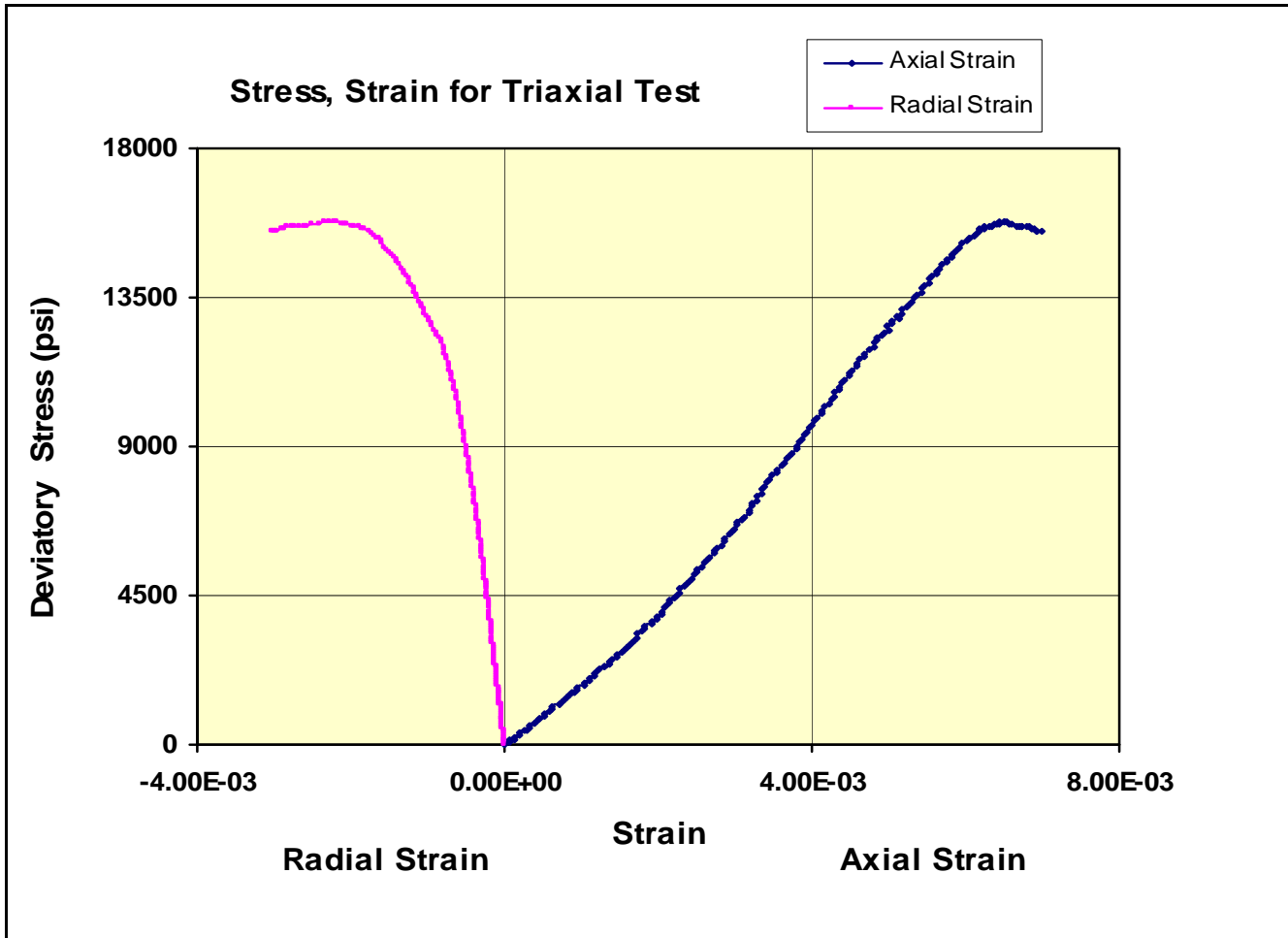
Company	Apache Corporation	Date	March, 2013
Well Name	University Lands 57-65 #1H	Job No.	HOU-121499
Field Name	Holt Ranch	Saturation Fluid	As Received
Location	Schleicher County, TX	Rock Type	Shale

Table 2 Acoustic Velocities and Dynamic Moduli at Triaxial Stress Conditions

									Dynamic Elastic Parameters			
Sample No.	Depth (ft)	Confining Pressure (psi)	Axial Pressure (psi)	Bulk Density (g/cc)	Acoustic Velocity				Bulk Modulus (x10 ⁶ psi)	Young's Modulus (x10 ⁶ psi)	Shear Modulus (x10 ⁶ psi)	Poisson's Ratio
					Compressional		Shear					
					ft/sec	μs/ft	ft/sec	μs/ft				
4V	5006.0	1570.00	1570	2.556	12230	81.77	7406	135.02	2.63	4.58	1.89	0.21
		1570.00	8000	2.556	12646	79.08	7557	132.33	2.89	4.81	1.97	0.22
16V	5081.0	1570.00	1570	2.749	16313	61.30	8889	112.50	5.96	7.55	2.93	0.29
		1570.00	15000	2.749	16919	59.10	9066	110.30	6.55	7.91	3.05	0.30

Results of Triaxial Test

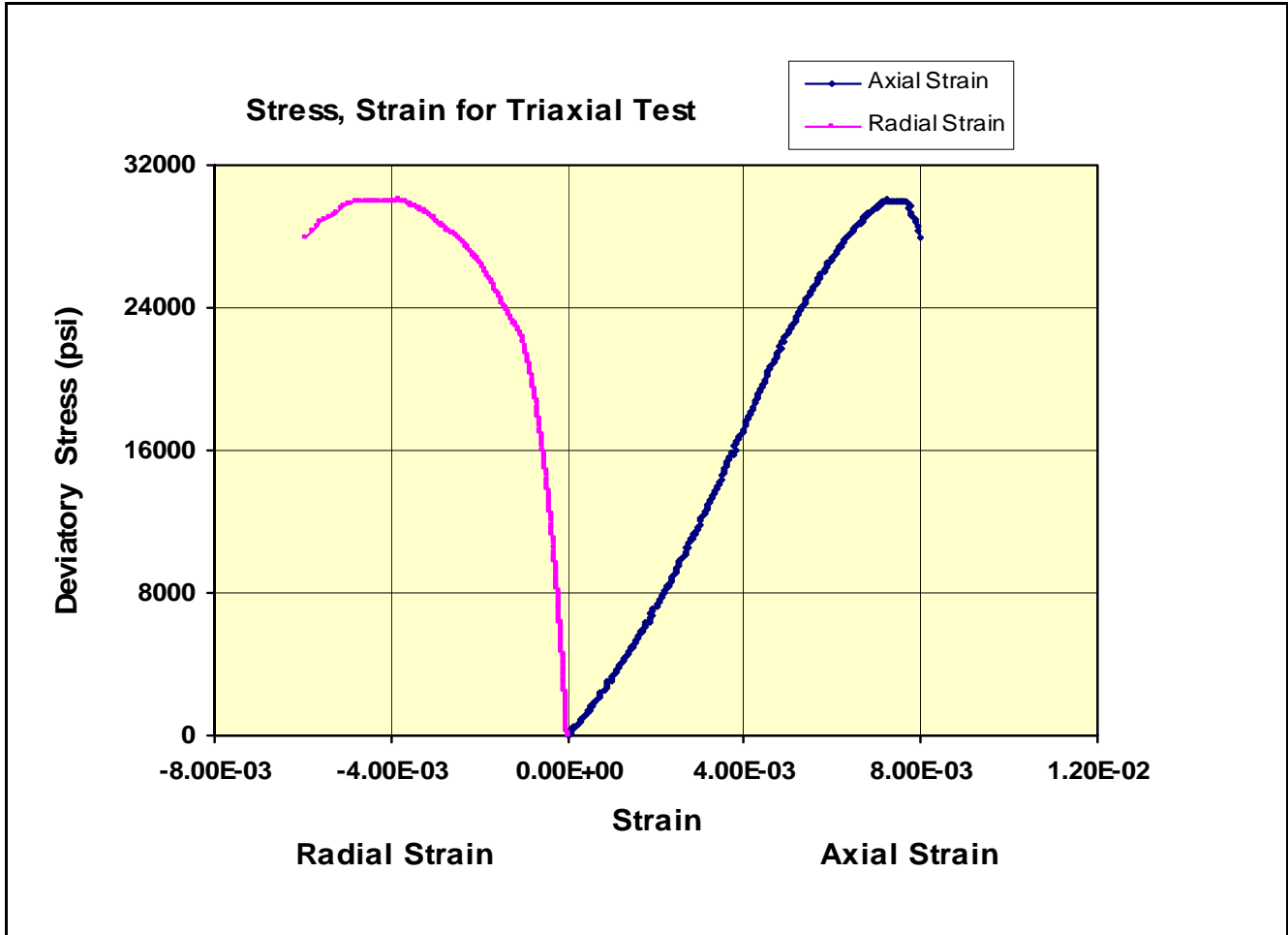
Company	Apache Corporation	Date	March, 2013
Well Name	University Lands 57-65 #1H	Job No.	HOU-121499
Field Name	Holt Ranch	Saturation Fluid	As Received
Location	Schleicher County, TX	Rock Type	Shale



Sample	4V
Depth (ft)	5006
Diameter (in)	0.9709
Length (in)	0.8923
Mass (g)	27.67
Saturation Fluid	As Received
Bulk Density (g/cc)	2.56
Confining Pressure (psi)	1570
Pore Pressure (psi)	0
Static Young's Modulus ($\times 10^6$ psi)	3.10
Static Poisson's Ratio	0.21
Compressive Strength (psi)	17382

Results of Triaxial Test

Company	Apache Corporation	Date	March, 2013
Well Name	University Lands 57-65 #1H	Job No.	HOU-121499
Field Name	Holt Ranch	Saturation Fluid	As Received
Location	Schleicher County, TX	Rock Type	Shale



Sample	16V
Depth (ft)	5081
Diameter (in)	0.9871
Length (in)	1.0923
Mass (g)	37.65
Saturation Fluid	As Received
Bulk Density (g/cc)	2.75
Confining Pressure (psi)	1570
Pore Pressure (psi)	0
Static Young's Modulus ($\times 10^6$ psi)	5.46
Static Poisson's Ratio	0.27
Compressive Strength (psi)	31602



TRIAXIAL COMPRESSIVE TEST RESULTS

Company	Apache Corporation	Date	April. 2013
Well Name	University Lands 57-65 #1H	Job No.	HOU-121499
Field Name	Holt Ranch	Saturation Fluid	As Received
Location	Schleicher County, TX	Rock Type	Shale

Table 1 Triaxial Static Young's Modulus, Poisson's Ratio and Compressive Strength

Sample Number	Depth (ft)	Confining Pressure (psi)	Bulk Density (gm/cm ³)	Compressive Strength (psi)	Young's Modulus (10 ⁶ psi)	Poisson's Ratio
38B	5039.70	0	2.547	6489	1.763	0.101
		785		12002	1.773	0.203
		1570		20037	1.809	0.260
39B	5189.47	1570	2.757	34011	4.504	0.266



ACOUSTIC VELOCITIES AND DYNAMIC ELASTIC PARAMETERS

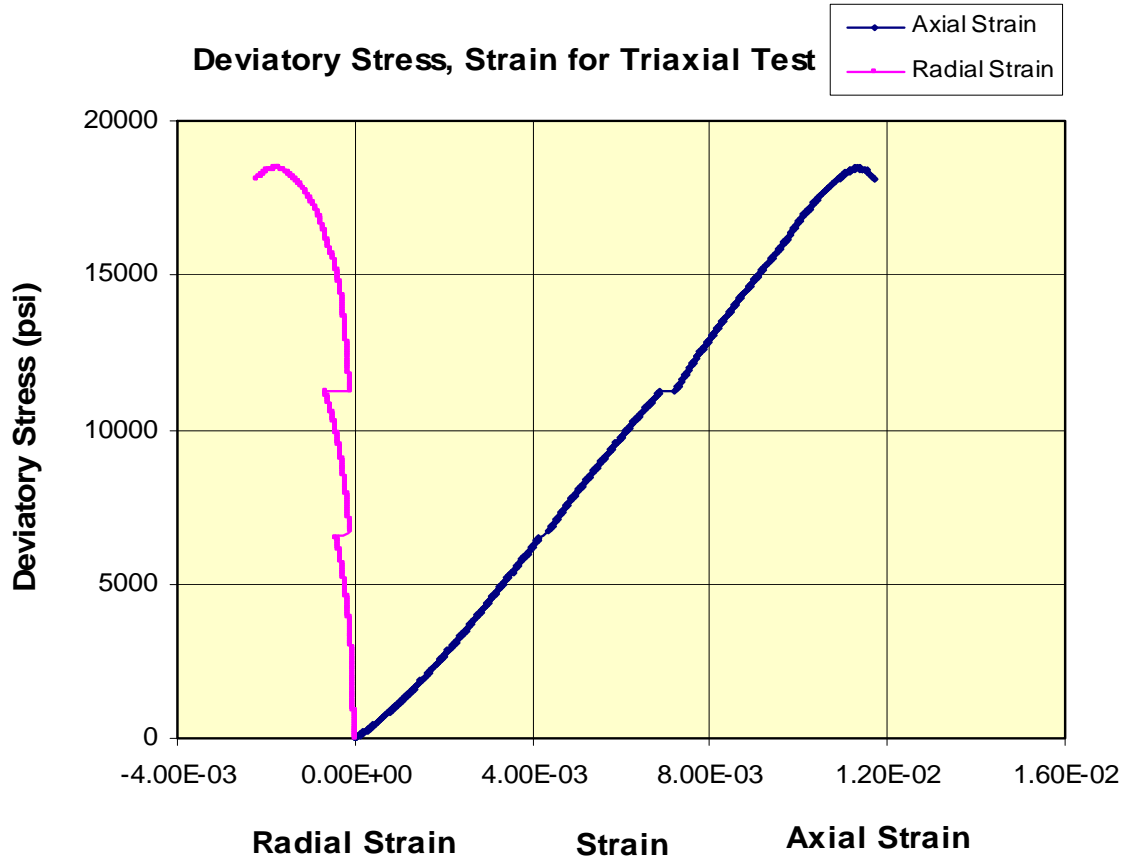
Company	Apache Corporation	Date	April, 2013
Well Name	University Lands 57-65 #1H	Job No.	HOU-121499
Field Name	Holt Ranch	Saturation Fluid	As Received
Location	Schleicher County, TX	Rock Type	Shale

Table 2 Acoustic Velocities and Dynamic Moduli at Triaxial Stress Conditions

Sample No.	Depth (ft)	Confining Pressure (psi)	Axial Pressure (psi)	Bulk Density (g/cc)	Acoustic Velocity				Dynamic Elastic Parameters			
					Compressional		Shear		Bulk Modulus (x10 ⁶ psi)	Young's Modulus (x10 ⁶ psi)	Shear Modulus (x10 ⁶ psi)	Poisson's Ratio
					ft/sec	μs/ft	ft/sec	μs/ft				
38B	5039.70	0	500	2.547	13377	74.75	7525	132.90	3.55	4.93	1.94	0.27
		785	7000	2.547	13920	71.84	7693	129.98	3.94	5.20	2.03	0.28
		1570	13000	2.547	14508	68.93	7870	127.07	4.39	5.49	2.13	0.29
39B	5189.47	1570	1570	2.757	17572	56.91	9919	100.82	6.60	9.26	3.66	0.27
		1570	15000	2.757	18292	54.67	10144	98.58	7.34	9.78	3.82	0.28

Results of Triaxial Test

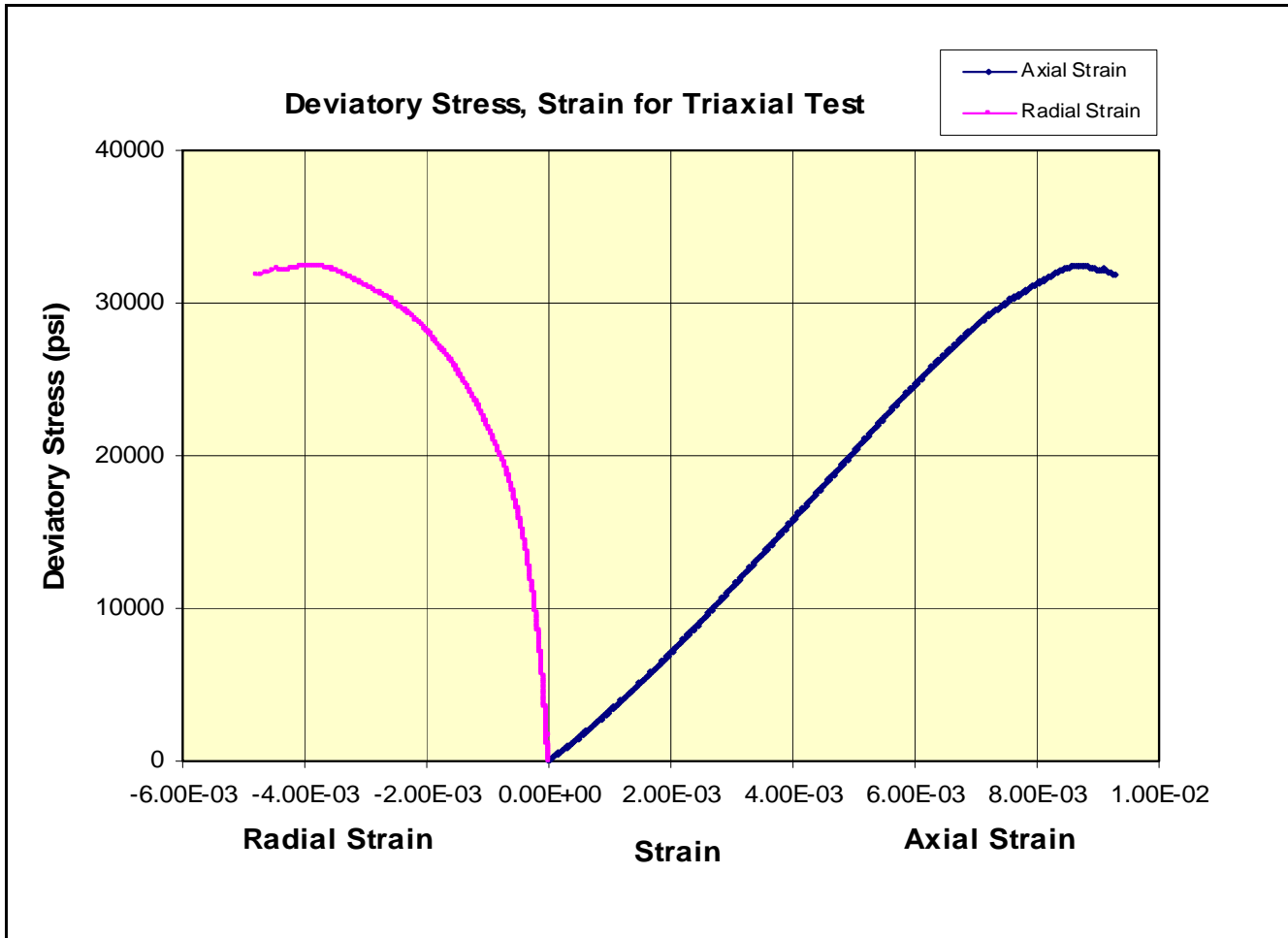
Company	Apache Corporation	Date	April. 2013
Well Name	University Lands 57-65 #1H	Job No.	HOU-121499
Field Name	Holt Ranch	Saturation Fluid	As Received
Location	Schleicher County, TX	Rock Type	Shale



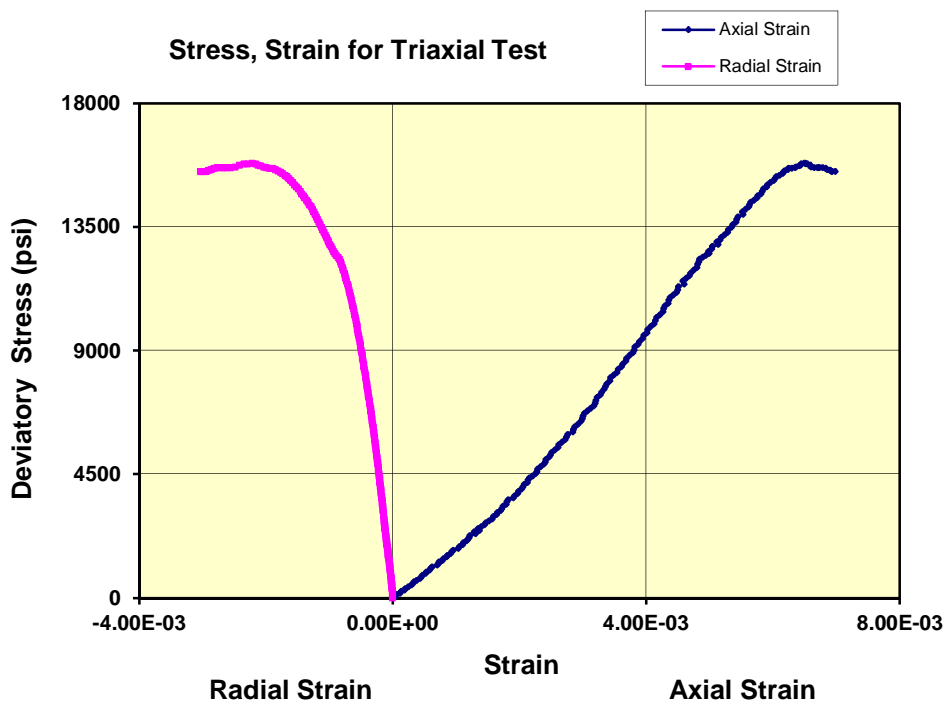
Well	University Lands 57-65 #1H		
Sample	38B		
Core/Depth (ft)	5039.7		
Bulk Density (gm/cc)	2.55		
Static Young's Modulus(10^6 psi)	Pc(psi)=	0	1.76
Static Young's Modulus(10^6 psi)	Pc(psi)=	785	1.77
Static Young's Modulus(10^6 psi)	Pc(psi)=	1570	1.81
Static Poisson's Ratio	Pc(psi)=	0	0.10
Static Poisson's Ratio	Pc(psi)=	785	0.20
Static Poisson's Ratio	Pc(psi)=	1570	0.26

Results of Triaxial Test

Company	Apache Corporation	Date	April. 2013
Well Name	University Lands 57-65 #1H	Job No.	HOU-121499
Field Name	Holt Ranch	Saturation Fluid	As Received
Location	Schleicher County, TX	Rock Type	Shale



Sample	39B
Depth (ft)	5189.47
Diameter (in)	0.9908
Length (in)	1.0712
Mass (g)	37.32
Saturation Fluid	As Received
Bulk Density (g/cc)	2.76
Confining Pressure (psi)	1570
Pore Pressure (psi)	0
Static Young's Modulus ($\times 10^6$ psi)	4.50
Static Poisson's Ratio	0.27
Compressive Strength (psi)	34011



Test Type	Triaxial
Company	Apache Corporation
Well	University Lands 57-65 #1H
Sample	4V
Core/Depth (ft)	5006
Diameter (in)	0.9709
Length (in)	0.8923
Mass (g)	27.67
Saturation State	As Received
Sample Density (g/cc)	2.56
Effective Confining Pressure (psi)	1570
Pore Pressure (psi)	0
Static Young's Modulus(10^6 psi)	3.10
Static Poisson's Ratio	0.21
Compressive Strength (psi)	17382

Test Type
Company

Triaxial
Apache Corporation

diameter sample =
Length of the sample =
Initial Chord Length =
Sin(Theta/2) =
Theta0 =
Thickness of rubber
Confining Pressure
Pore Pressure

0.9709 inch
0.8923 inch
0.9825 inch
0.588 unitless
1.257 radians
0.07 inches
1570 psi
0 psi

mass sat 27.67
mass dry 0
Test # 4V
Depth-ft 5006
Well city Lands 57-65 #1-
Density 2.56
Job # 121499
Satura. Fluid As Received

Pre- Stress

Plunger Diameter

2.00 in

Time sec	LVDt 1 mil	LVDt 2 mil	LVDt3 mil	Frame Def mil	Axial Load kip	Pore Press ksi	Cell Press ksi	Average Axial Def. mil	TRUE Axial Load kip	Confining Stress psi	Axial Stress psi	Radial Deform in	True Radi Deform in	Radial Strain (in/in)	Axial Strain (in/in)	Deviatory Stress (psi)	Volume Strain
0	-0.02867	0.044205	-0.058185	80.95362	0.40005	0	0.122086	0	4.00E-01	122	144	0	0	0.000000	0.000000	22	0.00E+00
5	-0.10908	0.140027	-0.041654	80.95362	0.416799	0	0.141733	0	4.17E-01	142	103	-1.653E-05	-6.308E-06	-0.000008	0.000000	-38	-1.69E-05
10	-0.31267	0.433411	-0.068703	80.75713	0.442518	0	0.14602	-0.196488	4.43E-01	146	124	1.052E-05	4.0135E-06	0.000005	0.000000	-22	-4.50E-05
15	-0.68311	1.062758	-0.12298	80.95362	0.493491	0	0.16707	0	4.94E-01	167	125	6.48E-05	2.4725E-05	0.000033	0.000000	-42	6.62E-05
20	-0.91266	1.441818	-0.13358	80.75713	0.528304	0	0.172917	-0.196488	5.28E-01	173	153	7.54E-05	2.8769E-05	0.000039	0.000000	-20	2.13E-05
25	-1.2018	1.903222	-0.170613	80.95362	0.58564	0	0.189289	0	5.86E-01	189	177	0.0001124	4.2901E-05	0.000057	0.000000	-12	1.15E-04
30	-1.30935	2.099719	-0.204509	80.75713	0.618555	0	0.199424	-0.196488	6.19E-01	199	189	0.0001463	5.5835E-05	0.000075	0.000000	-11	9.38E-05
35	-1.49471	2.433202	-0.23665	80.95362	0.664381	0	0.216185	0	6.64E-01	216	196	0.0001785	6.8099E-05	0.000091	0.000000	-20	1.82E-04
40	-1.61481	2.644394	-0.255179	80.75713	0.698125	0	0.223046	-0.196488	6.98E-01	223	226	0.000197	7.517E-05	0.000101	0.000000	-4	1.46E-04
45	-1.72353	2.859378	-0.28937	80.95362	0.748894	0	0.242536	0	7.49E-01	243	225	0.0002312	8.8216E-05	0.000118	0.000000	-18	2.36E-04
50	-1.81136	3.024349	-0.305754	80.75713	0.780899	0	0.250956	-0.196488	7.81E-01	251	241	0.0002476	9.4468E-05	0.000126	0.000000	-10	1.97E-04
55	-1.93081	3.23613	-0.326617	80.95362	0.826566	0	0.267171	0	8.27E-01	267	250	0.0002684	0.00010243	0.000137	0.000000	-17	2.74E-04
60	-1.99095	3.340358	-0.342396	80.75713	0.854436	0	0.279567	-0.196488	8.54E-01	280	247	0.0002842	0.00010845	0.000145	0.000000	-32	2.35E-04
65	-2.08038	3.513111	-0.370785	80.95362	0.902119	0	0.293366	0	9.02E-01	293	267	0.0003126	0.00011928	0.000160	0.000000	-26	3.19E-04
70	-2.13936	3.614343	-0.396698	80.75713	0.933053	0	0.304671	-0.196488	9.33E-01	305	272	0.0003385	0.00012917	0.000173	0.000000	-32	2.90E-04
75	-2.20515	3.739631	-0.415807	80.75713	0.965537	0	0.317066	-0.196488	9.66E-01	317	276	0.0003576	0.00013646	0.000183	0.000000	-41	3.10E-04
80	-2.27438	3.908391	-0.431385	80.75713	1.013176	0	0.329384	-0.196488	1.01E+00	329	300	0.0003732	0.00014241	0.000191	0.000000	-29	3.26E-04
85	-2.36993	4.03371	-0.451605	80.75713	1.060406	0	0.345678	-0.196488	1.06E+00	346	311	0.0003934	0.00015012	0.000201	0.000000	-35	3.46E-04
90	-2.43707	4.139164	-0.461629	80.95362	1.093448	0	0.356592	0	1.09E+00	357	320	0.0004034	0.00015395	0.000206	0.000000	-36	4.12E-04
95	-2.51921	4.288408	-0.482234	80.75713	1.141677	0	0.37351	-0.196488	1.14E+00	374	331	0.000424	0.00016181	0.000217	0.000000	-43	3.78E-04
100	-2.59101	4.375191	-0.497484	80.75713	1.175007	0	0.381696	-0.196488	1.18E+00	382	349	0.0004393	0.00016763	0.000224	0.000000	-33	3.93E-04
105	-2.67313	4.477835	-0.512666	80.95362	1.223167	0	0.397678	0	1.22E+00	398	362	0.0004545	0.00017342	0.000232	0.000000	-35	4.64E-04
110	-2.71283	4.553662	-0.524551	80.75713	1.2517	0	0.411321	-0.196488	1.25E+00	411	357	0.0004664	0.00017796	0.000238	0.000000	-55	4.21E-04
115	-2.80758	4.71181	-0.53694	80.75713	1.304254	0	0.425198	-0.196488	1.30E+00	425	383	0.0004788	0.00018268	0.000245	0.000000	-43	4.34E-04
120	-2.85295	4.787739	-0.55132	80.75713	1.331932	0	0.435878	-0.196488	1.33E+00	436	385	0.0004931	0.00018817	0.000252	0.000000	-51	4.48E-04
125	-2.90017	4.868834	-0.563569	80.75713	1.357926	0	0.445312	-0.196488	1.36E+00	445	390	0.0005054	0.00019285	0.000258	0.000000	-55	4.61E-04
130	-3.02842	5.013306	-0.575193	80.75713	1.409553	0	0.460124	-0.196488	1.41E+00	460	412	0.000517	0.00019728	0.000264	0.000000	-49	4.73E-04
135	-3.11588	5.136035	-0.586862	80.75713	1.453982	0	0.475249	-0.196488	1.45E+00	475	423	0.0005287	0.00020173	0.000270	0.000000	-53	4.85E-04
140	-3.15585	5.199291	-0.584571	80.75713	1.488632	0	0.488814	-0.196488	1.49E+00	489	425	0.0005264	0.00020086	0.000269	0.000000	-64	4.82E-04
145	-3.23382	5.325536	-0.595799	80.95362	1.534661	0	0.502613	0	1.53E+00	503	443	0.0005376	0.00020514	0.000275	0.000000	-60	5.49E-04
150	-3.27235	5.409144	-0.600138	80.75713	1.564332	0	0.514229	-0.196488	1.56E+00	514	445	0.0005452	0.00020608	0.000277	0.000000	-69	4.98E-04
155	-3.36365	5.578016	-0.615037	80.95362	1.6156	0	0.529197	0	1.62E+00	529	466	0.0005569	0.00021249	0.000285	0.000000	-63	5.69E-04
160	-3.4334	5.661138	-0.628424	80.95362	1.646428	0	0.54019	0	1.64E+00	540	469	0.0005702	0.00021759	0.000291	0.000000	-71	5.83E-04
165	-3.53755	5.748737	-0.635752	80.95362	1.689759	0	0.556718	0	1.69E+00	557	477	0.0005776	0.00022039	0.000295	0.000000	-80	5.90E-04
170	-3.6112	5.836386	-0.63509	80.95362	1.723558	0	0.565683	0	1.72E+00	566	493	0.0005769	0.00022014	0.000295	0.000000	-72	5.90E-04
175	-3.69245	6.00638	-0.633319	80.75713	1.766921	0	0.582211	-0.196488	1.77E+00	582	498	0.0005751	0.00021946	0.000294	0.000000	-84	5.32E-04
180	-3.74128	6.139803	-0.646746	80.95362	1.796682	0	0.592268	0	1.80E+00	592	506	0.0005886	0.00022458	0.000301	0.000000	-86	6.01E-04
185	-3.86778	6.298664	-0.665157	80.95362	1.840637	0	0.610199	0	1.84E+00	610	507	0.000607	0.00023161	0.000310	0.000000	-103	6.20E-04
190	-3.96187	6.472403	-0.663409	80.95362	1.871538	0	0.618774	0	1.87E+00	619	521	0.0006052	0.00023094	0.000309	0.000000	-98	6.18E-04
195	-4.01242	6.619015	-0.665875	80.95362	1.904792	0	0.630078	0	1.90E+00	631	527	0.0006077	0.00023188	0.000310	0.000000	-104	6.21E-04
200	-4.08908	6.752005	-0.671613	80.75713	1.951663	0	0.643878	-0.196488	1.95E+00	644	548	0.0006134	0.00023407	0.000313	0.000000	-96	5.71E-04
205	-4.19761	6.870694	-0.682597	80.75713	1.997792	0	0.661653	-0.196488	2.00E+00	662	552	0.0006244	0.00023826	0.000319	0.000000	-109	5.82E-04
210	-4.27933	6.914969	-0.691714	80.75713	2.027781	0	0.670618	-0.196488	2.03E+00	671	564	0.0006335	0.00024174	0.000324	0.000000	-107	5.92E-04
215	-4.37396	6.985239	-0.693881	80.75713	2.070155	0	0.686288	-0.196488	2.07E+00	686	570	0.0006357	0.00024257	0.000325	0.000000	-116	5.94E-04
220	-4.42746	7.080893	-0.695171	80.75713	2.098436	0	0.696111	-0.196488	2.10E+00	696	577	0.000637	0.00024306	0.000325	0.000000	-120	5.95E-04
225	-4.54471	7.196093	-0.720968	80.95362	2.146771	0	0.711781	0	2.15E+00	712	594	0.0006628	0.00025291	0.000339	0.000000	-118	6.77E-04
230	-4.64147	7.258526	-0.731768	80.75713	2.181936	0	0.723008	-0.196488	2.18E+00	723	602	0.0006736	0.00025703	0.000344	0.000000	-121	6.33E-04
235	-4.72694	7.372979	-0.727732	80.75713	2.228407	0	0.737742	-0.196488	2.23E+00	738	617	0.0006695	0.00025549	0.000342	0.000000	-121	6.28E-04
240	-4.81054	7.486908	-0.731777	80.95362	2.258243	0	0.749826	0	2.26E+00	750	618	0.0006736	0.00025703	0.000344	0.000000	-132	6.88E-04
245	-4.91781	7.678987	-0.752385	80.75713	2.303573	0	0.764873	-0.196488	2.30E+00	765	631	0.0006942	0.00026489	0.000355	0.000000	-134	6.54E-04
250	-4.97348	7.755083	-0.762435	80.75713	2.333033	0	0.773604	-0.196488	2.33E+00	774	642	0.0007043	0.00026873	0.000360	0.000000	-131	6.64E-04
255	-5.09053	7.848356	-0.752354	80.75713	2.384062	0	0.790756	-0.196488	2.38E+00	791	656	0.0006942	0.00026488	0.000355	0.000000	-135	6.54E-04
260	-5.15523	7.954255	-0.739682	80.75713	2.418527	0	0.800033	-0.196488	2.42E+00	800	672	0.0006815	0.00026005	0.000348	0.000000	-128	6.41E-04
265	-5.25576	8.087397	-0.751772	80.75713	2.464075	0	0.815625	-0.196488	2.46E+00	816	683	0.0006936	0.00026466	0.000354	0.000000	-133	6.53E-04
270	-5.30956	8.194343	-0.766769	80.75713	2.495914	0	0.826384	-0.196488	2.50E+00	826	691	0.0007086	0.00027038	0.000362	0.000000	-135	6.68E-04
275	-5.35618	8.296978	-0.770717	80.95362	2.526063	0	0.837298	0	2.53E+00	837	696	0.0007125	0.00027189	0.000364	0.000000	-141	

425	-7.12885	9.546315	-0.966135	80.75713	3.769542	0	1.235678	-0.196488	3.77E+00	1236	1084	0.000908	0.00034646	0.000464	#####	-152	8.72E-04
430	-7.16118	9.649929	-0.967109	80.95362	3.804007	0	1.244331	0	3.80E+00	1244	1102	0.0009089	0.00034683	0.000464	0.0000000	-142	9.29E-04
435	-7.21016	9.775163	-0.978844	80.75713	3.851053	0	1.261483	-0.196488	3.85E+00	1261	1111	0.0009207	0.00035131	0.000470	#####	-151	8.85E-04
440	-7.24105	9.814325	-0.99124	80.75713	3.880486	0	1.273177	-0.196488	3.88E+00	1273	1112	0.0009331	0.00035604	0.000477	#####	-161	8.98E-04
445	-7.27215	9.840971	-0.984446	80.75713	3.930918	0	1.28682	-0.196488	3.93E+00	1287	1136	0.0009263	0.00035345	0.000473	#####	-151	8.91E-04
450	-7.31333	9.866397	-0.987719	80.75713	3.970424	0	1.292979	-0.196488	3.97E+00	1293	1169	0.0009295	0.00035469	0.000475	#####	-124	8.94E-04
455	-7.38375	9.942784	-1.008361	80.75713	4.020016	0	1.316055	-0.196488	4.02E+00	1316	1161	0.0009502	0.00036257	0.000485	#####	-155	9.15E-04
460	-7.40055	9.970863	-1.011034	80.75713	4.052909	0	1.324631	-0.196488	4.05E+00	1325	1178	0.0009528	0.00036359	0.000487	#####	-147	9.18E-04
465	-7.44035	9.992839	-1.01182	80.75713	4.090567	0	1.334766	-0.196488	4.09E+00	1335	1196	0.0009536	0.00036389	0.000487	#####	-139	9.19E-04
470	-7.47671	9.9858	-1.017753	80.75713	4.137412	0	1.349812	-0.196488	4.14E+00	1350	1210	0.0009596	0.00036615	0.000490	#####	-139	9.25E-04
475	-7.51273	9.976916	-1.044416	80.95362	4.180177	0	1.365872	0	4.18E+00	1366	1216	0.0009862	0.00037633	0.000504	0.0000000	-150	1.01E-03
480	-7.56008	9.933537	-1.027894	80.75713	4.21996	0	1.375149	-0.196488	4.22E+00	1375	1240	0.0009697	0.00037002	0.000495	#####	-135	9.35E-04
485	-7.61136	9.926836	-1.014077	80.75713	4.274989	0	1.390897	-0.196488	4.28E+00	1391	1263	0.0009559	0.00036475	0.000488	#####	-128	9.21E-04
490	-7.63558	9.947096	-1.028135	80.75713	4.297722	0	1.40228	-0.196488	4.30E+00	1402	1257	0.00097	0.00037012	0.000496	#####	-145	9.35E-04
495	-7.66701	9.984605	-1.053839	80.95362	4.34855	0	1.419431	0	4.35E+00	1419	1270	0.0009957	0.00037992	0.000509	0.0000000	-149	1.02E-03
500	-7.69463	10.005152	-1.060723	80.95362	4.387613	0	1.429644	0	4.39E+00	1430	1289	0.0010025	0.00038255	0.000512	0.0000000	-140	1.02E-03
505	-7.73822	10.048224	-1.067483	80.75713	4.433799	0	1.443755	-0.196488	4.43E+00	1444	1306	0.0010093	0.00038513	0.000516	#####	-138	9.76E-04
510	-7.77508	10.08362	-1.068367	80.75713	4.467289	0	1.455917	-0.196488	4.47E+00	1456	1312	0.0010102	0.00038547	0.000516	#####	-144	9.77E-04
515	-7.82823	10.116395	-1.06567	80.95362	4.519874	0	1.470963	0	4.52E+00	1471	1334	0.0009985	0.00038102	0.000510	0.0000000	-137	1.02E-03
520	-7.84607	10.134478	-1.060645	80.75713	4.550714	0	1.4818	-0.196488	4.55E+00	1482	1341	0.0010025	0.00038252	0.000512	#####	-141	9.69E-04
525	-7.86733	10.172179	-1.079988	80.75713	4.593944	0	1.49669	-0.196488	4.59E+00	1497	1351	0.0010217	0.00038986	0.000522	#####	-146	9.88E-04
530	-7.90272	10.21947	-1.080832	80.75713	4.62723	0	1.508462	-0.196488	4.63E+00	1508	1357	0.0010226	0.00039022	0.000522	#####	-151	9.89E-04
535	-7.93429	10.304967	-1.08548	80.95362	4.662966	0	1.51696	0	4.66E+00	1517	1378	0.0010273	0.000392	0.000525	0.0000000	-139	1.05E-03
540	-7.98755	10.345251	-1.099514	80.95362	4.714702	0	1.53302	0	4.71E+00	1533	1396	0.0010413	0.00039735	0.000532	0.0000000	-137	1.06E-03
545	-8.03672	10.39458	-1.093581	80.75713	4.757545	0	1.548222	-0.196488	4.76E+00	1548	1405	0.0010354	0.00039509	0.000529	#####	-144	1.00E-03
550	-8.01972	10.452804	-1.100416	80.95362	4.789229	0	1.558513	0	4.79E+00	1559	1414	0.0010422	0.0003977	0.000533	0.0000000	-145	1.07E-03
555	-8.06758	10.53612	-1.122311	80.95362	5.082133	0	1.57239	0	5.08E+00	1572	1765	0.0010641	0.00040605	0.000544	0.0000000	192	1.09E-03
560	-8.0659	10.540409	-1.114282	81.3466	5.127676	0	1.563814	0.392982	5.13E+00	1564	1854	0.0010561	0.00040299	0.000540	0.0001114	290	1.19E-03
565	-8.02834	10.532792	-1.120212	81.15012	5.169106	0	1.54791	0.196495	5.17E+00	1548	1961	0.001062	0.00040525	0.000543	0.0000557	414	1.14E-03
570	-8.00962	10.538771	-1.121217	81.15012	5.140365	0	1.54066	0.196495	5.14E+00	1541	1946	0.001063	0.00040563	0.000543	0.0000557	406	1.14E-03
575	-8.00538	10.520626	-1.122241	81.3466	5.010793	0	1.527485	0.392982	5.11E+00	1527	1947	0.0010641	0.00040602	0.000544	0.0001114	420	1.20E-03
580	-8.02329	10.474308	-1.119382	81.3466	5.056543	0	1.51314	0.392982	5.06E+00	1513	1922	0.0010612	0.00040493	0.000542	0.0001114	409	1.20E-03
585	-8.00768	10.461304	-1.113641	81.3466	5.010793	0	1.497626	0.392982	5.01E+00	1498	1911	0.0010555	0.00040274	0.000539	0.0001114	413	1.19E-03
590	-8.0038	10.43609	-1.108988	81.3466	4.976824	0	1.485152	0.392982	4.98E+00	1485	1905	0.0010508	0.00040097	0.000537	0.0001114	420	1.19E-03
595	-7.98949	10.404401	-1.108341	81.15012	4.917662	0	1.46917	0.196495	4.92E+00	1469	1877	0.0010502	0.00040072	0.000537	0.0000557	408	1.13E-03
600	-7.98611	10.374957	-1.113372	81.3466	4.887311	0	1.458723	0.392982	4.89E+00	1459	1870	0.0010552	0.00040264	0.000539	0.0001114	411	1.19E-03
605	-7.97232	10.371916	-1.124226	81.15012	4.86189	0	1.447575	0.196495	4.86E+00	1448	1872	0.001066	0.00040678	0.000545	0.0000557	424	1.15E-03
610	-7.94344	10.338103	-1.113739	81.15012	4.822853	0	1.43284	0.196495	4.82E+00	1433	1867	0.0010556	0.00040278	0.000539	0.0000557	434	1.13E-03
615	-7.92185	10.28189	-1.091448	81.15012	4.769728	0	1.415923	0.196495	4.77E+00	1416	1850	0.0010333	0.00039428	0.000528	0.0000557	434	1.11E-03
620	-7.90229	10.262321	-1.095641	81.3466	4.736462	0	1.407737	0.392982	4.74E+00	1408	1832	0.0010375	0.00039588	0.000530	0.0001114	424	1.17E-03
625	-7.8646	10.225239	-1.10479	81.3466	4.693034	0	1.399395	0.392982	4.69E+00	1399	1796	0.0010466	0.00039937	0.000535	0.0001114	397	1.18E-03
630	-7.83114	10.179558	-1.0972	81.15012	4.653914	0	1.388091	0.196495	4.65E+00	1388	1784	0.001039	0.00039647	0.000531	0.0000557	396	1.12E-03
635	-7.78478	10.155134	-1.094607	81.3466	4.612108	0	1.37016	0.392982	4.61E+00	1370	1786	0.0010364	0.00039548	0.000530	0.0001114	415	1.17E-03
640	-7.76251	10.145703	-1.095879	81.15012	4.57877	0	1.362442	0.196495	4.58E+00	1362	1766	0.0010377	0.00039597	0.000530	0.0000557	403	1.12E-03
645	-7.74847	10.10677	-1.101827	81.15012	4.54058	0	1.350748	0.196495	4.54E+00	1351	1752	0.0010436	0.00039824	0.000533	0.0000557	401	1.12E-03
650	-7.71355	10.053393	-1.095732	81.15012	4.496558	0	1.333596	0.196495	4.50E+00	1334	1748	0.0010375	0.00039591	0.000530	0.0000557	415	1.12E-03
655	-7.67966	10.024116	-1.08336	81.15012	4.446147	0	1.318004	0.196495	4.45E+00	1318	1731	0.0010252	0.00039119	0.000524	0.0000557	413	1.10E-03
660	-7.66327	9.977565	-1.077551	81.15012	4.415218	0	1.30709	0.196495	4.42E+00	1307	1724	0.0010194	0.00038897	0.000521	0.0000557	417	1.10E-03
665	-7.62123	9.935355	-1.074726	81.3466	4.368717	0	1.295863	0.392982	4.37E+00	1296	1698	0.0010165	0.00038789	0.000519	0.0001114	402	1.15E-03
670	-7.5785	9.912368	-1.076732	81.3466	4.335262	0	1.284325	0.392982	4.34E+00	1284	1690	0.0010185	0.00038866	0.000520	0.0001114	406	1.15E-03
675	-7.52535	9.880058	-1.070355	81.3466	4.289605	0	1.265303	0.392982	4.29E+00	1265	1690	0.0010122	0.00038623	0.000517	0.0001114	425	1.15E-03
680	-7.50932	9.884967	-1.071182	81.15012	4.253577	0	1.255558	0.196495	4.25E+00	1256	1673	0.0010113	0.00038654	0.000518	0.0000557	418	1.09E-03
685	-7.47337	9.806846	-1.067415	81.3466	4.204891	0	1.238095	0.392982	4.20E+00	1238	1664	0.0010092	0.0003851	0.000516	0.0001114	426	1.14E-03
690	-7.45903	9.7406	-1.061922	81.3466	4.169115	0	1.229363	0.392982	4.17E+00	1229	1644	0.0010037	0.00038301	0.000513	0.0001114	415	1.14E-03
695	-7.41186	9.728474	-1.064256	81.3466	4.133622	0	1.221021	0.392982	4.13E+00	1221	1623	0.0010061	0.0003839	0.000514	0.0001114	402	1.14E-03
700	-7.35647	9.705	-1.062279	81.3466	4.079014	0	1.202856	0.392982	4.08E+00	1203	1608	0.0010041	0.00038315	0.000513	0.0001114	405	1.14E-03
705	-7.32787	9.67392	-1.068142	81.3466	4.030775	0	1.192409	0.392982	4.03E+00	1192	1577	0.00101	0.00038538	0.000516	0.0001114	385	1.14E-03
710	-7.31037	9.64175	-1.065691	81.3466	4.000604	0	1.177675	0.392982	4.00E+00	1178	1584	0.0010075	0.00038445	0.000515	0.0001114	406	1.14E-03
715	-7.2863	9.															

940	-6.03506	7.995024	-1.038532	81.3466	3.080197	0	0.998365	0.392982	3.08E+00	998	922	0.0009803	0.00037408	0.000501	0.0001114	-76	1.11E-03
945	-6.07449	8.015772	-1.048097	81.54309	3.120478	0	1.015283	0.58947	3.12E+00	1015	922	0.0009899	0.00037773	0.000506	0.0001671	-93	1.18E-03
950	-6.07282	8.046182	-1.055834	81.54309	3.150739	0	1.024482	0.58947	3.15E+00	1024	933	0.0009976	0.00038069	0.000510	0.0001671	-92	1.19E-03
955	-6.06562	8.117241	-1.052399	81.54309	3.189478	0	1.040074	0.58947	3.19E+00	1040	935	0.0009942	0.00037938	0.000508	0.0001671	-905	1.18E-03
960	-6.09339	8.13965	-1.071792	81.3466	3.220099	0	1.050677	0.392982	3.22E+00	1051	942	0.0010136	0.00038678	0.000518	0.0001114	-109	1.15E-03
965	-6.13894	8.201805	-1.084813	81.54309	3.273797	0	1.066737	0.58947	3.27E+00	1067	962	0.0010266	0.00039174	0.000525	0.0001671	-105	1.22E-03
970	-6.15155	8.223181	-1.059265	81.54309	3.304404	0	1.077495	0.58947	3.30E+00	1077	969	0.0010011	0.00038199	0.000511	0.0001671	-109	1.19E-03
975	-6.18148	8.255595	-1.050981	81.54309	3.348718	0	1.094881	0.58947	3.35E+00	1095	972	0.0010016	0.00038222	0.000512	0.0001671	-123	1.19E-03
980	-6.21715	8.306851	-1.077378	81.3466	3.379949	0	1.101975	0.392982	3.38E+00	1102	991	0.0010192	0.00038891	0.000521	0.0001114	-111	1.15E-03
985	-6.27203	8.385892	-1.092971	81.54309	3.424892	0	1.120686	0.58947	3.42E+00	1121	991	0.0010348	0.00039486	0.000529	0.0001671	-129	1.22E-03
990	-6.31132	8.415541	-1.093537	81.54309	3.454441	0	1.129885	0.58947	3.45E+00	1130	1001	0.0010354	0.00039507	0.000529	0.0001671	-129	1.23E-03
995	-6.3472	8.471914	-1.096812	81.54309	3.507101	0	1.144931	0.58947	3.51E+00	1145	1024	0.0010386	0.00039632	0.000531	0.0001671	-121	1.23E-03
1000	-6.36216	8.495268	-1.100907	81.54309	3.542382	0	1.156703	0.58947	3.54E+00	1157	1033	0.0010427	0.00039788	0.000533	0.0001671	-124	1.23E-03
1005	-6.4173	8.505637	-1.105917	81.54309	3.588216	0	1.171906	0.58947	3.59E+00	1172	1046	0.0010477	0.0003998	0.000535	0.0001671	-126	1.24E-03
1010	-6.46213	8.535161	-1.106834	81.54309	3.622612	0	1.1836	0.58947	3.62E+00	1184	1054	0.0010486	0.00040015	0.000536	0.0001671	-129	1.24E-03
1015	-6.46714	8.603677	-1.10114	81.3466	3.675309	0	1.197789	0.392982	3.68E+00	1198	1079	0.0010443	0.00039977	0.000533	0.0001114	-118	1.18E-03
1020	-6.48165	8.646998	-1.107677	81.54309	3.706445	0	1.209171	0.58947	3.71E+00	1209	1084	0.0010495	0.00040047	0.000536	0.0001671	-125	1.24E-03
1025	-6.52863	8.70282	-1.122665	81.3466	3.753802	0	1.224685	0.392982	3.75E+00	1225	1098	0.0010645	0.00040619	0.000544	0.0001114	-127	1.20E-03
1030	-6.5599	8.728567	-1.122277	81.3466	3.787097	0	1.234196	0.392982	3.79E+00	1234	1112	0.0010641	0.00040604	0.000544	0.0001114	-122	1.20E-03
1035	-6.60475	8.761161	-1.120568	81.54309	3.834202	0	1.251893	0.58947	3.83E+00	1252	1119	0.0010624	0.00040539	0.000543	0.0001671	-133	1.25E-03
1040	-6.60909	8.794483	-1.124919	81.54309	3.862701	0	1.261483	0.58947	3.86E+00	1261	1126	0.0010667	0.00040705	0.000545	0.0001671	-136	1.26E-03
1045	-6.63739	8.810561	-1.131009	81.3466	3.894316	0	1.271228	0.392982	3.89E+00	1271	1137	0.0010728	0.00040937	0.000548	0.0001114	-134	1.21E-03
1050	-6.72422	8.894042	-1.138053	81.3466	3.950352	0	1.285183	0.392982	3.95E+00	1285	1168	0.0010799	0.00041206	0.000552	0.0001114	-118	1.21E-03
1055	-6.75148	8.934045	-1.139511	81.54309	3.994639	0	1.302412	0.58947	3.99E+00	1302	1171	0.0010813	0.00041262	0.000552	0.0001671	-131	1.27E-03
1060	-6.75828	8.972813	-1.147961	81.54309	4.022664	0	1.313872	0.58947	4.02E+00	1314	1172	0.0010898	0.00041584	0.000557	0.0001671	-142	1.28E-03
1065	-6.77531	8.997273	-1.15012	81.54309	4.056753	0	1.324007	0.58947	4.06E+00	1324	1185	0.0010919	0.00041666	0.000558	0.0001671	-139	1.28E-03
1070	-6.80457	9.059608	-1.153232	81.54309	4.108834	0	1.339521	0.58947	4.11E+00	1340	1205	0.001095	0.00041785	0.000559	0.0001671	-134	1.29E-03
1075	-6.85612	9.089779	-1.153439	81.54309	4.157369	0	1.354802	0.58947	4.16E+00	1355	1221	0.0010953	0.00041793	0.000560	0.0001671	-133	1.29E-03
1080	-6.90322	9.119432	-1.160764	81.3466	4.192108	0	1.365404	0.392982	4.19E+00	1365	1234	0.0011026	0.00042073	0.000563	0.0001114	-132	1.24E-03
1085	-6.94482	9.188369	-1.183302	81.54309	4.235435	0	1.379593	0.58947	4.24E+00	1380	1246	0.0011251	0.00042933	0.000575	0.0001671	-133	1.32E-03
1090	-6.95686	9.237954	-1.184114	81.3466	4.267811	0	1.391053	0.392982	4.27E+00	1391	1253	0.0011259	0.00042964	0.000575	0.0001114	-138	1.26E-03
1095	-6.98603	9.294835	-1.187352	81.3466	4.323107	0	1.40649	0.392982	4.32E+00	1406	1277	0.0011256	0.0004295	0.000575	0.0001114	-129	1.26E-03
1100	-7.00546	9.307577	-1.173908	81.3466	4.346987	0	1.417404	0.392982	4.35E+00	1417	1274	0.0011157	0.00042574	0.000570	0.0001114	-143	1.25E-03
1105	-7.03776	9.357197	-1.17138	81.3466	4.393248	0	1.432139	0.392982	4.39E+00	1432	1289	0.0011132	0.00042478	0.000569	0.0001114	-143	1.25E-03
1110	-7.06438	9.40503	-1.183927	81.54309	4.43309	0	1.441806	0.58947	4.43E+00	1442	1312	0.0011257	0.00042956	0.000575	0.0001671	-130	1.32E-03
1115	-7.09928	9.448739	-1.18864	81.54309	4.485346	0	1.458879	0.58947	4.49E+00	1459	1327	0.0011305	0.00043136	0.000578	0.0001671	-132	1.32E-03
1120	-7.12547	9.471036	-1.191318	81.3466	4.518924	0	1.467689	0.392982	4.52E+00	1468	1343	0.0011331	0.00043328	0.000579	0.0001114	-124	1.27E-03
1125	-7.16179	9.523289	-1.198377	81.3466	4.569073	0	1.484216	0.392982	4.57E+00	1484	1358	0.0011402	0.00043508	0.000583	0.0001114	-127	1.28E-03
1130	-7.17919	9.569809	-1.202308	81.54309	4.598157	0	1.49669	0.58947	4.60E+00	1497	1356	0.0011441	0.00043658	0.000585	0.0001671	-140	1.34E-03
1135	-7.22388	9.621343	-1.209561	81.3466	4.647686	0	1.512127	0.392982	4.65E+00	1512	1373	0.0011514	0.00043935	0.000588	0.0001114	-139	1.29E-03
1140	-7.24844	9.630274	-1.218257	81.3466	4.680611	0	1.523275	0.392982	4.68E+00	1523	1382	0.0011601	0.00044266	0.000593	0.0001114	-142	1.30E-03
1145	-7.28891	9.675452	-1.227565	81.54309	4.727072	0	1.538633	0.392982	4.73E+00	1539	1395	0.0011694	0.00044622	0.000597	0.0001671	-144	1.36E-03
1150	-7.31213	9.68254	-1.22391	81.54309	4.765282	0	1.547988	0.58947	4.77E+00	1548	1416	0.0011657	0.00044482	0.000596	0.0001671	-132	1.36E-03
1155	-7.33475	9.699521	-1.223804	81.3466	4.794396	0	1.557734	0.392982	4.79E+00	1558	1424	0.0011656	0.00044478	0.000596	0.0001114	-134	1.30E-03
1160	-7.3792	9.797445	-1.234301	81.3466	4.839063	0	1.574651	0.392982	4.84E+00	1575	1429	0.0011761	0.00044879	0.000601	0.0001114	-146	1.31E-03
1165	-7.39004	9.851801	-1.237638	81.3466	4.890854	0	1.58923	0.392982	4.89E+00	1589	1452	0.0011795	0.00045006	0.000603	0.0001114	-138	1.32E-03
1170	-7.41384	9.89447	-1.24359	81.3466	4.920394	0	1.600534	0.392982	4.92E+00	1601	1455	0.0011854	0.00045233	0.000606	0.0001114	-146	1.32E-03
1175	-7.4631	9.977176	-1.249435	81.54309	4.966562	0	1.616594	0.58947	4.97E+00	1617	1465	0.0011913	0.00045456	0.000609	0.0001671	-151	1.38E-03
1180	-7.47495	10.019232	-1.245878	81.3466	5.000988	0	1.625949	0.392982	5.00E+00	1626	1481	0.0011877	0.0004532	0.000607	0.0001114	-145	1.33E-03
1185	-7.51308	10.076307	-1.24282	81.3466	5.049858	0	1.640684	0.392982	5.05E+00	1641	1500	0.0011846	0.00045204	0.000605	0.0001114	-141	1.32E-03
1190	-7.54941	10.112758	-1.25152	81.3466	5.085966	0	1.650975	0.392982	5.09E+00	1651	1515	0.0011933	0.00045536	0.000610	0.0001114	-136	1.33E-03
1195	-7.57969	10.167424	-1.270387	81.3466	5.133262	0	1.66836	0.392982	5.13E+00	1668	1522	0.0012122	0.00046256	0.000619	0.0001114	-146	1.35E-03
1200	-7.59919	10.148275	-1.275652	81.54309	5.166796	0	1.678105	0.58947	5.17E+00	1678	1536	0.0012175	0.00046456	0.000622	0.0001671	-142	1.41E-03
1205	-7.63216	10.138428	-1.274003	81.3466	5.216913	0	1.694165	0.392982	5.22E+00	1694	1552	0.0012158	0.00046394	0.000621	0.0001114	-142	1.35E-03
1210	-7.6418	10.17974	-1.278658	81.3466	5.249573	0	1.703988	0.392982	5.25E+00	1704	1564	0.0012205	0.00046571	0.000624	0.0001114	-140	1.36E-03
1215	-7.66171	10.225213	-1.298286	81.3466	5.287621	0	1.715292	0.392982	5.29E+00	1715	1579	0.0012401	0.0004732	0.000634	0.0001114	-137	1.38E-03
1220	-7.70441	10.318481	-1.298581	81.54309	5.340221	0	1.730572	0.58947	5.34E+00	1731	1600	0.0012404	0.00047331	0.000634	0.0001671	-130	1.43E-03
1225	-7.73865	10.385743															

1455	-8.95952	12.202486	-1.535849	81.54309	7.290767	0	2.350516	0.58947	7.29E+00	2351	2224	0.0014777	0.00056385	0.000755	0.0001671	-126	1.68E-03
1460	-9.00712	12.479767	-1.536009	81.3466	7.425675	0	2.357922	0.392982	7.43E+00	2358	2382	0.0014778	0.00056391	0.000755	0.0001114	24	1.62E-03
1465	-9.00021	12.502736	-1.546511	81.3466	7.42834	0	2.351062	0.392982	7.43E+00	2351	2408	0.0014883	0.00056792	0.000760	0.0001114	57	1.63E-03
1470	-9.01375	12.497287	-1.546568	81.3466	7.429123	0	2.344045	0.392982	7.43E+00	2344	2432	0.0014884	0.00056794	0.000760	0.0001114	88	1.63E-03
1475	-9.00488	12.520595	-1.541555	81.3466	7.400921	0	2.328609	0.392982	7.40E+00	2329	2444	0.0014834	0.00056603	0.000758	0.0001114	115	1.63E-03
1480	-8.99674	12.525627	-1.539022	81.3466	7.35545	0	2.3152	0.392982	7.36E+00	2315	2426	0.0014808	0.00056506	0.000757	0.0001114	111	1.62E-03
1485	-8.98796	12.503283	-1.535533	81.3466	7.333002	0	2.298984	0.392982	7.33E+00	2299	2448	0.0014773	0.00056373	0.000755	0.0001114	149	1.62E-03
1490	-8.99682	12.487328	-1.534187	81.54309	7.300399	0	2.290954	0.58947	7.30E+00	2291	2430	0.001476	0.00056322	0.000754	0.0001671	139	1.68E-03
1495	-9.00456	12.483287	-1.529827	81.54309	7.268953	0	2.272733	0.58947	7.27E+00	2277	2432	0.0014716	0.00056155	0.000752	0.0001671	155	1.67E-03
1500	-8.98189	12.495592	-1.525679	81.3466	7.233092	0	2.257509	0.392982	7.23E+00	2258	2448	0.0014675	0.00055997	0.000750	0.0001114	190	1.61E-03
1505	-8.97583	12.497834	-1.523294	81.54309	7.212018	0	2.24753	0.58947	7.21E+00	2248	2452	0.0014651	0.00055906	0.000749	0.0001671	204	1.66E-03
1510	-8.9802	12.483339	-1.517404	81.54309	7.173881	0	2.23225	0.58947	7.17E+00	2232	2450	0.0014592	0.00055681	0.000746	0.0001671	218	1.66E-03
1515	-8.97488	12.473979	-1.517558	81.3466	7.152326	0	2.221881	0.392982	7.15E+00	2222	2454	0.0014594	0.00055688	0.000746	0.0001114	232	1.60E-03
1520	-8.95592	12.490221	-1.512416	81.54309	7.126637	0	2.205665	0.58947	7.13E+00	2206	2472	0.0014542	0.00055491	0.000743	0.0001671	266	1.65E-03
1525	-8.93853	12.484903	-1.513719	81.3466	7.107059	0	2.194127	0.392982	7.11E+00	2194	2483	0.0014555	0.00055541	0.000744	0.0001114	289	1.60E-03
1530	-8.94558	12.456278	-1.514042	81.3466	7.057853	0	2.177677	0.392982	7.06E+00	2178	2470	0.0014559	0.00055553	0.000744	0.0001114	292	1.60E-03
1535	-8.94238	12.421737	-1.502645	81.54309	7.025388	0	2.168634	0.58947	7.03E+00	2169	2456	0.0014445	0.00055118	0.000738	0.0001671	287	1.64E-03
1540	-8.94997	12.372313	-1.495512	81.3466	6.998304	0	2.153899	0.392982	7.00E+00	2154	2467	0.0014373	0.00054846	0.000734	0.0001114	313	1.58E-03
1545	-8.94868	12.353806	-1.491333	81.3466	6.977872	0	2.142985	0.392982	6.98E+00	2143	2475	0.0014331	0.00054686	0.000732	0.0001114	332	1.58E-03
1550	-8.92531	12.321981	-1.47914	81.3466	6.938259	0	2.127549	0.392982	6.94E+00	2128	2471	0.001421	0.00054221	0.000726	0.0001114	344	1.56E-03
1555	-8.93284	12.3053	-1.488015	81.54309	6.908758	0	2.114919	0.58947	6.91E+00	2115	2472	0.0014298	0.0005456	0.000731	0.0001671	357	1.63E-03
1560	-8.93188	12.296881	-1.499159	81.54309	6.867639	0	2.101977	0.58947	6.87E+00	2102	2459	0.001441	0.00054985	0.000736	0.0001671	357	1.64E-03
1565	-8.91227	12.312884	-1.481714	81.54309	6.837076	0	2.091219	0.58947	6.84E+00	2091	2452	0.0014235	0.00054319	0.000727	0.0001671	361	1.62E-03
1570	-8.88004	12.294431	-1.463507	81.54309	6.795369	0	2.079291	0.58947	6.80E+00	2079	2435	0.0014053	0.00053625	0.000718	0.0001671	355	1.60E-03
1575	-8.88203	12.248405	-1.466988	81.54309	6.764904	0	2.066038	0.58947	6.76E+00	2066	2436	0.0014088	0.00053758	0.000720	0.0001671	370	1.61E-03
1580	-8.88226	12.234097	-1.467355	81.54309	6.714704	0	2.05333	0.58947	6.71E+00	2053	2410	0.0014092	0.00053772	0.000720	0.0001671	357	1.61E-03
1585	-8.84231	12.227347	-1.467058	81.3466	6.691492	0	2.043039	0.392982	6.69E+00	2043	2412	0.0014089	0.0005376	0.000720	0.0001114	369	1.55E-03
1590	-8.81255	12.173247	-1.461736	81.3466	6.654147	0	2.027135	0.392982	6.65E+00	2027	2413	0.0014036	0.00053557	0.000717	0.0001114	386	1.55E-03
1595	-8.82056	12.154537	-1.453487	81.54309	6.628265	0	2.01817	0.58947	6.63E+00	2018	2407	0.0013953	0.00053242	0.000713	0.0001671	389	1.59E-03
1600	-8.81888	12.136922	-1.453564	81.54309	6.58458	0	2.000473	0.58947	6.58E+00	2000	2406	0.0013954	0.00053245	0.000713	0.0001671	405	1.59E-03
1605	-8.81535	12.106279	-1.450895	81.3466	6.550089	0	1.986751	0.392982	6.55E+00	1987	2403	0.0013927	0.00053143	0.000712	0.0001114	417	1.53E-03
1610	-8.77284	12.055628	-1.445005	81.54309	6.5069	0	1.969912	0.58947	6.51E+00	1970	2400	0.0013868	0.00052919	0.000709	0.0001671	430	1.58E-03
1615	-8.75042	12.026682	-1.447325	81.54309	6.479394	0	1.960557	0.58947	6.48E+00	1961	2393	0.0013891	0.00053007	0.000710	0.0001671	432	1.59E-03
1620	-8.72417	12.014463	-1.445074	81.3466	6.429811	0	1.944263	0.392982	6.43E+00	1944	2379	0.0013869	0.00052921	0.000709	0.0001114	435	1.53E-03
1625	-8.69558	11.994142	-1.439422	81.3466	6.400185	0	1.933894	0.392982	6.40E+00	1934	2372	0.0013812	0.00052706	0.000706	0.0001114	439	1.52E-03
1630	-8.65999	11.951001	-1.436287	81.54309	6.358241	0	1.919471	0.58947	6.36E+00	1919	2363	0.0013781	0.00052586	0.000704	0.0001671	443	1.58E-03
1635	-8.64896	11.939487	-1.437774	81.3466	6.322979	0	1.906842	0.392982	6.32E+00	1907	2356	0.0013796	0.00052641	0.000705	0.0001114	449	1.52E-03
1640	-8.63938	11.889369	-1.422057	81.3466	6.27578	0	1.89125	0.392982	6.28E+00	1891	2343	0.0013639	0.00052043	0.000697	0.0001114	451	1.51E-03
1645	-8.61352	11.868296	-1.419235	81.3466	6.251518	0	1.881738	0.392982	6.25E+00	1882	2341	0.0013611	0.00051935	0.000695	0.0001114	459	1.50E-03
1650	-8.5729	11.841416	-1.424388	81.54309	6.203694	0	1.865445	0.58947	6.20E+00	1865	2329	0.0013662	0.00052132	0.000698	0.0001671	464	1.56E-03
1655	-8.55064	11.816829	-1.416221	81.54309	6.168633	0	1.857493	0.58947	6.17E+00	1857	2307	0.001358	0.0005182	0.000694	0.0001671	450	1.55E-03
1660	-8.50307	11.806697	-1.419736	81.3466	6.121743	0	1.83847	0.392982	6.12E+00	1838	2306	0.0013616	0.00051954	0.000696	0.0001114	467	1.50E-03
1665	-8.47788	11.76112	-1.417043	81.3466	6.092622	0	1.829271	0.392982	6.09E+00	1829	2296	0.0013589	0.00051852	0.000694	0.0001114	467	1.50E-03
1670	-8.46529	11.703358	-1.411673	81.54309	6.063224	0	1.819837	0.58947	6.06E+00	1820	2287	0.0013535	0.00051647	0.000692	0.0001671	467	1.55E-03
1675	-8.42804	11.662267	-1.406524	81.3466	6.012941	0	1.802218	0.392982	6.01E+00	1802	2276	0.0013483	0.0005145	0.000689	0.0001114	474	1.49E-03
1680	-8.39992	11.629328	-1.409538	81.3466	5.96469	0	1.788965	0.392982	5.96E+00	1789	2254	0.0013514	0.00051565	0.000690	0.0001114	465	1.49E-03
1685	-8.3735	11.595739	-1.40784	81.3466	5.934617	0	1.775556	0.392982	5.93E+00	1776	2257	0.0013497	0.00051501	0.000690	0.0001114	482	1.49E-03
1690	-8.35738	11.56913	-1.402707	81.54309	5.906527	0	1.766824	0.58947	5.91E+00	1767	2247	0.0013445	0.00051305	0.000687	0.0001671	481	1.54E-03
1695	-8.34562	11.571577	-1.379627	81.54309	5.860159	0	1.750608	0.58947	5.86E+00	1751	2238	0.0013214	0.00050424	0.000675	0.0001671	487	1.52E-03
1700	-8.30511	11.524428	-1.37713	81.54309	5.807271	0	1.73642	0.58947	5.81E+00	1736	2212	0.0013189	0.00050329	0.000674	0.0001671	476	1.51E-03
1705	-8.30594	11.467415	-1.392312	81.54309	5.765729	0	1.725115	0.58947	5.77E+00	1725	2193	0.0013341	0.00050908	0.000682	0.0001671	467	1.53E-03
1710	-8.26685	11.421756	-1.384752	81.54309	5.716734	0	1.709445	0.58947	5.72E+00	1709	2177	0.0013266	0.0005062	0.000678	0.0001671	468	1.52E-03
1715	-8.22325	11.40114	-1.37811	81.3466	5.685146	0	1.699232	0.392982	5.69E+00	1699	2168	0.0013199	0.00050366	0.000674	0.0001114	468	1.46E-03
1720	-8.20153	11.381853	-1.375073	81.3466	5.649899	0	1.686914	0.392982	5.65E+00	1687	2160	0.0013169	0.0005025	0.000673	0.0001114	473	1.46E-03
1725	-8.17912	11.338802	-1.369904	81.3466	5.601742	0	1.671478	0.392982	5.60E+00	1671	2145	0.0013117	0.00050053	0.000670	0.0001114	474	1.45E-03
1730	-8.15859	11.316575	-1.369855	81.54309	5.55002	0	1.656432	0.58947	5.55E+00	1656	2124	0.0013117	0.00050051	0.000670	0.0001671	468	1.51E-03
1735	-8.14121	11.281388	-1.372961	81.3466	5.515256	0	1.646219	0.392982	5.52E+00	1646	2110	0.0013148	0.0005017	0.000672	0.0001114	464	1.45E-03
1740	-8.08775	11.230															

Test Type
Company

Triaxial
Apache Corporation

diameter sample =
Length of the sample =
Initial Chord Length =
Sin(Theta/2) =
Theta =
Thickness of rubber
Confining Pressure
Pore Pressure

0.9871 inch
1.0923 inch
1.012 inch
0.5998 unitless
1.2866 radians
0.07 inches
1570 psi
0 psi

mass sat
mass dry
Test #
Depth-ft
Well
Density
Job #
Satura. Fluid As Received

37.65
16V
5081
University Lands 57-65 #1H
2.75
121499
As Received

Young (Mpsi)
Poisson's Ratio
Strength (psi)
% of Dev Stress
Rate 1 (μ/sec)
Rate 2 (psi/min)
Deformation mil/hr

5.459
0.27
30032
15016
5.07082
1260
19.520

Plunger Diameter

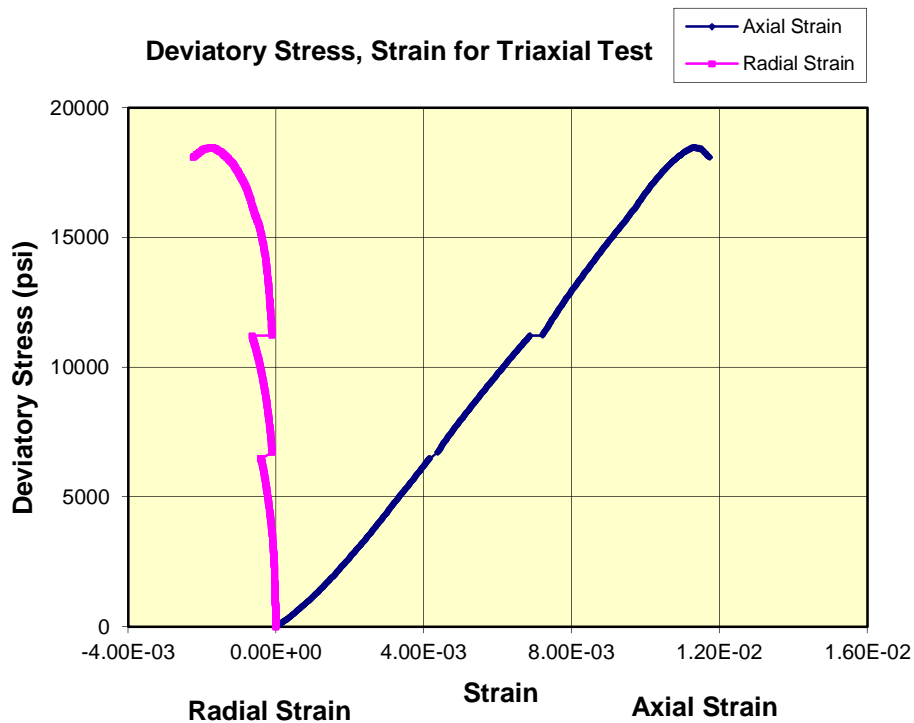
2.00 in

Time sec	LVDt1 mil	LVDt2 mil	LVDt3 mil	Axial Load kip	Pore Press ksi	Cell Press ksi	Average Axial Def. mil	TRUE Axial Load kip	Confining Stress psi	Axial Stress psi	Radial Deform in	True Radi Deform in	Radial Strain (in/in)	Axial Strain (in/in)	Deviatory Stress (psi)	Volume Strain
0	0.0010	-0.0010	0.0001	4.9320	0	1.57	0.0000	4.9320000	1570	1570	0	0	0.000000	0.0000000	0	0.00E+00
5	0.0032	0.0245	0.0027	4.9686	0	1.57	0.0139	4.968564	1570	1617	-2.578E-06	-9.92E-07	-0.000001	0.0000127	47	1.03E-05
10	0.0205	0.0350	0.0058	5.0178	0	1.57	0.0277	5.017845	1570	1682	-5.691E-06	-2.19E-06	-0.000003	0.0000254	112	2.01E-05
15	0.0382	0.1011	0.0096	5.0694	0	1.57	0.0696	5.069367	1570	1749	-9.458E-06	-3.639E-06	-0.000004	0.0000638	179	5.49E-05
20	0.0549	0.1121	0.0131	5.1246	0	1.57	0.0835	5.124585	1570	1821	-1.296E-05	-4.986E-06	-0.000006	0.0000765	251	6.43E-05
25	0.0782	0.1166	0.0167	5.1759	0	1.57	0.0974	5.175933	1570	1888	-1.659E-05	-6.382E-06	-0.000008	0.0000891	318	7.36E-05
30	0.1109	0.2238	0.0205	5.2320	0	1.57	0.1673	5.232023	1570	1962	-2.045E-05	-7.868E-06	-0.000010	0.0001532	392	1.34E-04
35	0.1284	0.1779	0.0248	5.2848	0	1.57	0.1532	5.284821	1570	2031	-2.466E-05	-9.49E-06	-0.000012	0.0001402	461	1.17E-04
40	0.1718	0.2184	0.0288	5.3418	0	1.57	0.1951	5.341800	1570	2105	-2.871E-05	-1.105E-05	-0.000013	0.0001786	535	1.52E-04
45	0.1795	0.2945	0.0332	5.3948	0	1.57	0.2370	5.394787	1570	2174	-3.306E-05	-1.272E-05	-0.000015	0.0002170	604	1.86E-04
50	0.2160	0.3418	0.0379	5.4604	0	1.57	0.2789	5.460359	1570	2260	-3.784E-05	-1.456E-05	-0.000018	0.0002553	690	2.20E-04
55	0.2373	0.3483	0.0423	5.5183	0	1.57	0.2928	5.518340	1570	2336	-4.222E-05	-1.625E-05	-0.000020	0.0002680	766	2.29E-04
60	0.2722	0.3971	0.0464	5.5804	0	1.57	0.3347	5.580370	1570	2417	-4.626E-05	-1.78E-05	-0.000022	0.0003064	847	2.63E-04
65	0.2861	0.4110	0.0503	5.6375	0	1.57	0.3486	5.637470	1570	2491	-5.015E-05	-1.93E-05	-0.000023	0.0003191	921	2.72E-04
70	0.3123	0.4125	0.0537	5.6975	0	1.57	0.3624	5.697502	1570	2570	-5.358E-05	-2.062E-05	-0.000025	0.0003318	1000	2.82E-04
75	0.3309	0.4777	0.0565	5.7446	0	1.57	0.4043	5.744602	1570	2631	-5.644E-05	-2.172E-05	-0.000026	0.0003702	1061	3.17E-04
80	0.3611	0.4753	0.0600	5.8005	0	1.57	0.4182	5.800500	1570	2705	-5.992E-05	-2.306E-05	-0.000028	0.0003829	1135	3.27E-04
85	0.3896	0.5306	0.0639	5.8521	0	1.57	0.4601	5.852097	1570	2772	-6.383E-05	-2.456E-05	-0.000030	0.0004212	1202	3.62E-04
90	0.4135	0.5905	0.0681	5.9069	0	1.57	0.5020	5.906944	1570	2844	-6.801E-05	-2.617E-05	-0.000032	0.0004596	1274	3.96E-04
95	0.4234	0.5523	0.0729	5.9690	0	1.57	0.4878	5.969027	1570	2925	-7.277E-05	-2.8E-05	-0.000034	0.0004686	1355	3.79E-04
100	0.4494	0.6101	0.0780	6.0406	0	1.57	0.5298	6.040592	1570	3018	-7.788E-05	-2.997E-05	-0.000036	0.0004850	1448	4.12E-04
105	0.4810	0.6624	0.0824	6.1042	0	1.57	0.5717	6.104223	1570	3101	-8.226E-05	-3.165E-05	-0.000038	0.0005234	1531	4.46E-04
110	0.5124	0.6587	0.0859	6.1724	0	1.57	0.5855	6.172447	1570	3191	-8.576E-05	-3.3E-05	-0.000040	0.0005361	1621	4.56E-04
115	0.5393	0.6595	0.0892	6.2332	0	1.57	0.5994	6.233164	1570	3270	-8.91E-05	-3.428E-05	-0.000042	0.0005480	1700	4.65E-04
120	0.5536	0.7290	0.0929	6.2895	0	1.57	0.6413	6.289497	1570	3343	-9.278E-05	-3.57E-05	-0.000043	0.0005871	1773	5.00E-04
125	0.5729	0.7936	0.0975	6.3457	0	1.57	0.6832	6.345699	1570	3417	-9.742E-05	-3.749E-05	-0.000046	0.0006255	1847	5.34E-04
130	0.5985	0.7957	0.1028	6.4149	0	1.57	0.6971	6.414917	1570	3507	-0.0001027	-3.951E-05	-0.000048	0.0006382	1937	5.42E-04
135	0.6062	0.8718	0.1086	6.4836	0	1.57	0.7390	6.483598	1570	3597	-0.0001085	-4.174E-05	-0.000051	0.0006766	2027	5.75E-04
140	0.6325	0.9294	0.1141	6.5572	0	1.57	0.7809	6.557180	1570	3693	-0.0001114	-4.386E-05	-0.000053	0.0007149	2123	6.08E-04
145	0.6593	0.9303	0.1186	6.6306	0	1.57	0.7948	6.630582	1570	3789	-0.0001185	-4.56E-05	-0.000055	0.0007276	2219	6.17E-04
150	0.6919	0.9254	0.1224	6.7072	0	1.57	0.8087	6.707185	1570	3889	-0.0001223	-4.706E-05	-0.000057	0.0007403	2319	6.26E-04
155	0.7107	0.9343	0.1262	6.7763	0	1.57	0.8225	6.776263	1570	3980	-0.0001261	-4.85E-05	-0.000059	0.0007530	2410	6.35E-04
160	0.7216	1.0634	0.1297	6.8397	0	1.57	0.8925	6.839692	1570	4062	-0.0001296	-4.987E-05	-0.000061	0.0008171	2492	6.96E-04
165	0.7389	1.0738	0.1339	6.9201	0	1.57	0.9064	6.920148	1570	4168	-0.0001338	-5.149E-05	-0.000063	0.0008298	2598	7.05E-04
170	0.7650	1.1315	0.1386	7.0032	0	1.57	0.9483	7.003228	1570	4276	-0.0001385	-5.329E-05	-0.000065	0.0008681	2706	7.39E-04
175	0.7854	1.1388	0.1430	7.0779	0	1.57	0.9621	7.077917	1570	4374	-0.0001429	-5.5E-05	-0.000067	0.0008808	2804	7.47E-04
180	0.7946	1.1574	0.1478	7.1566	0	1.57	0.9760	7.156632	1570	4477	-0.0001477	-5.682E-05	-0.000069	0.0008935	2907	7.55E-04
185	0.8181	1.1617	0.1531	7.2387	0	1.57	0.9899	7.238691	1570	4584	-0.000153	-5.887E-05	-0.000072	0.0009062	3014	7.63E-04
190	0.8451	1.2745	0.1613	7.3094	0	1.57	1.0598	7.309421	1570	4676	-0.0001612	-6.202E-05	-0.000075	0.0009073	3106	8.19E-04
195	0.8665	1.2809	0.1692	7.3745	0	1.57	1.0737	7.374516	1570	4761	-0.0001691	-6.509E-05	-0.000079	0.0009380	3191	8.25E-04
200	0.8790	1.2961	0.1770	7.4458	0	1.57	1.0876	7.445785	1570	4854	-0.0001769	-6.808E-05	-0.000083	0.0009597	3284	8.30E-04
205	0.8928	1.3662	0.1823	7.5109	0	1.57	1.1295	7.510887	1570	4940	-0.0001822	-7.012E-05	-0.000085	0.0010340	3370	8.64E-04
210	0.9217	1.4211	0.1878	7.5897	0	1.57	1.1714	7.589694	1570	5043	-0.0001877	-7.223E-05	-0.000088	0.0010724	3473	8.97E-04
215	0.9446	1.4259	0.1900	7.6593	0	1.57	1.1853	7.659286	1570	5133	-0.0001899	-7.308E-05	-0.000089	0.0010851	3563	9.07E-04
220	0.9649	1.4895	0.1924	7.7313	0	1.57	1.2272	7.731267	1570	5228	-0.0001923	-7.398E-05	-0.000090	0.0011235	3658	9.44E-04
225	0.9784	1.4476	0.1948	7.7986	0	1.57	1.2130	7.798587	1570	5315	-0.0001947	-7.492E-05	-0.000091	0.0011105	3745	9.28E-04
230	1.0050	1.5048	0.1994	7.8678	0	1.57	1.2549	7.867848	1570	5406	-0.0001993	-7.671E-05	-0.000093	0.0011489	3836	9.62E-04
235	1.0138	1.5238	0.2045	7.9381	0	1.57	1.2688	7.938051	1570	5498	-0.0002044	-7.866E-05	-0.000096	0.0011616	3928	9.70E-04
240	1.0309	1.5904	0.2097	8.0096	0	1.57	1.3107	8.009605	1570	5591	-0.0002096	-8.066E-05	-0.000098	0.0011999	4021	1.00E-03
245	1.0376	1.6676	0.2152	8.0817	0	1.57	1.3526	8.081731	1570	5685	-0.0002151	-8.276E-05	-0.000101	0.0012383	4115	1.04E-03
250	1.0566	1.6763	0.2207	8.1622	0	1.57	1.3665	8.162196	1570	5791	-0.0002206	-8.487E-05	-0.000103	0.0012510	4221	1.04E-03
255	1.0962	1.6645	0.2264	8.2434	0	1.57	1.3803	8.243367	1570	5897	-0.0002263	-8.707E-05	-0.000106	0.0012637	4327	1.05E-03
260	1.1039	1.7406	0.2312	8.3058	0	1.57	1.4223	8.305836	1570	5978	-0.0002311	-8.892E-05	-0.000108	0.0013021	4408	1.09E-03
265	1.1220	1.8063	0.2370	8.3810	0	1.57	1.4642	8.381025	1570	6077	-0.0002369	-9.116E-05	-0.000111	0.0013404	4507	1.12E-03
270	1.1413	1.8708	0.2429	8.4565	0	1.57	1.5061	8.456491	1570	6175	-0.0002428	-9.344E-05	-0.000114	0.0013788	4605	1.15E-03
275	1.1635	1.8764	0.2492	8.5288	0	1.57	1.5199	8.528841	1570	6270	-0.0002491	-9.586E-05	-0.000117	0.0013915	4700	1.16E-03
280	1.1702	1.8974	0.2554	8.6012	0	1.57	1.5338	8.601171	1570	6364	-0.0002553	-9.822E-05	-0.000119	0.0014042	4794	1.17E-03
285	1.1893	1.9060	0.2616	8.6837	0	1.57	1.5477	8.683685	1570	6472	-0.0002615	-0.0001006	-0.000122	0.0014169	4902	1.17E-03
290	1.2011	2.0342	0.2672	8.7621	0	1.57	1.6176	8.762064	1570	6574	-0.0002671	-0.0001028	-0.000125	0.0014810	5004	1.23E-03
295	1.2228	1.9841	0.2726	8.8349	0	1.57	1.6035	8.834944	1570	6670	-0.0002725	-0.0001049	-0.000127	0.0014680	5100	1.21E-03
300	1.2390	2.1079	0.2783	8.9021	0	1.57	1.6734	8.902109	1570	6757	-0.0002782	-0.000107	-0.000130	0.0015320	5187	1.27E-03
305	1.2649	2.1097														

445	1.7857	3.0947	0.4910	11.3025	0	1.57	2.4402	11.302539	1570	9894	-0.0004909	-0.0001889	-0.000230	0.0022340	8324	1.77E-03
450	1.8109	3.1533	0.4970	11.3877	0	1.57	2.4821	11.387665	1570	10005	-0.0004969	-0.0001912	-0.000232	0.0022724	8435	1.81E-03
455	1.8348	3.2132	0.5033	11.4840	0	1.57	2.5240	11.483970	1570	10131	-0.0005032	-0.0001936	-0.000235	0.0023107	8561	1.84E-03
460	1.8543	3.2776	0.5115	11.5722	0	1.57	2.5659	11.572154	1570	10247	-0.0005114	-0.0001968	-0.000239	0.0023491	8677	1.87E-03
465	1.8695	3.2339	0.5200	11.6576	0	1.57	2.5517	11.657595	1570	10358	-0.0005199	-0.0002001	-0.000243	0.0023361	8788	1.85E-03
470	1.8874	3.2999	0.5281	11.7428	0	1.57	2.5937	11.742818	1570	10470	-0.000528	-0.0002032	-0.000247	0.0023745	8900	1.88E-03
475	1.9018	3.3133	0.5401	11.8406	0	1.57	2.6075	11.840645	1570	10597	-0.00054	-0.0002078	-0.000253	0.0023872	9027	1.88E-03
480	1.9135	3.4414	0.5513	11.9289	0	1.57	2.6775	11.928909	1570	10713	-0.0005512	-0.0002121	-0.000258	0.0024512	9143	1.94E-03
485	1.9296	3.3970	0.5603	12.0227	0	1.57	2.6633	12.022708	1570	10835	-0.0005602	-0.0002156	-0.000262	0.0024382	9265	1.91E-03
490	1.9638	3.4466	0.5685	12.1143	0	1.57	2.7052	12.114313	1570	10955	-0.0005684	-0.0002187	-0.000266	0.0024766	9385	1.94E-03
495	2.0023	3.4920	0.5768	12.2093	0	1.57	2.7471	12.209310	1570	11079	-0.0005767	-0.0002219	-0.000270	0.0025150	9509	1.98E-03
500	2.0160	3.5059	0.5843	12.2930	0	1.57	2.7610	12.292990	1570	11188	-0.0005842	-0.0002248	-0.000273	0.0025277	9618	1.98E-03
505	2.0373	3.5124	0.5931	12.3867	0	1.57	2.7749	12.386655	1570	11311	-0.000593	-0.0002282	-0.000277	0.0025404	9741	1.99E-03
510	2.0459	3.5876	0.6019	12.4650	0	1.57	2.8168	12.464966	1570	11413	-0.0006018	-0.0002316	-0.000282	0.0025788	9843	2.02E-03
515	2.0657	3.5956	0.6114	12.5567	0	1.57	2.8306	12.556732	1570	11533	-0.0006113	-0.0002352	-0.000286	0.0025914	9963	2.02E-03
520	2.0898	3.5992	0.6208	12.6482	0	1.57	2.8445	12.648187	1570	11653	-0.0006207	-0.0002389	-0.000290	0.0026041	10083	2.02E-03
525	2.1167	3.7122	0.6314	12.7535	0	1.57	2.9145	12.753480	1570	11790	-0.0006313	-0.0002429	-0.000295	0.0026682	10220	2.08E-03
530	2.1205	3.7361	0.6421	12.8498	0	1.57	2.9283	12.849835	1570	11916	-0.000642	-0.000247	-0.000300	0.0026809	10346	2.08E-03
535	2.1392	3.7452	0.6528	12.9532	0	1.57	2.9422	12.953214	1570	12051	-0.0006527	-0.0002512	-0.000305	0.0026936	10481	2.08E-03
540	2.1574	3.8108	0.6630	13.0442	0	1.57	2.9841	13.044163	1570	12170	-0.0006629	-0.0002551	-0.000310	0.0027320	10600	2.11E-03
545	2.1995	3.7965	0.6738	13.1531	0	1.57	2.9980	13.153080	1570	12312	-0.0006737	-0.0002592	-0.000315	0.0027447	10742	2.11E-03
550	2.2148	3.8650	0.6832	13.2487	0	1.57	3.0399	13.248703	1570	12437	-0.0006831	-0.0002629	-0.000320	0.0027830	10867	2.14E-03
555	2.2317	3.8758	0.6926	13.3418	0	1.57	3.0538	13.341768	1570	12559	-0.0006925	-0.0002665	-0.000324	0.0027957	10989	2.15E-03
560	2.2516	3.9397	0.7022	13.4352	0	1.57	3.0957	13.435187	1570	12681	-0.0007021	-0.0002702	-0.000328	0.0028341	11111	2.18E-03
565	2.2879	3.9312	0.7127	13.5360	0	1.57	3.1095	13.535955	1570	12813	-0.0007126	-0.0002742	-0.000333	0.0028468	11243	2.18E-03
570	2.2968	4.0061	0.7230	13.6146	0	1.57	3.1515	13.614555	1570	12915	-0.0007229	-0.0002782	-0.000338	0.0028852	11345	2.21E-03
575	2.3139	4.0167	0.7342	13.7096	0	1.57	3.1653	13.709582	1570	13040	-0.0007341	-0.0002825	-0.000343	0.0028979	11470	2.21E-03
580	2.3345	4.0799	0.7454	13.7987	0	1.57	3.2072	13.798698	1570	13156	-0.0007453	-0.0002868	-0.000349	0.0029362	11586	2.24E-03
585	2.3572	4.1411	0.7577	13.9072	0	1.57	3.2492	13.907173	1570	13298	-0.0007576	-0.0002915	-0.000354	0.0029746	11728	2.27E-03
590	2.3746	4.1515	0.7689	14.0108	0	1.57	3.2630	14.010834	1570	13433	-0.0007688	-0.0002958	-0.000360	0.0029873	11863	2.27E-03
595	2.4188	4.1350	0.7801	14.1211	0	1.57	3.2769	14.121070	1570	13577	-0.00078	-0.0003001	-0.000365	0.0030000	12007	2.27E-03
600	2.4242	4.1573	0.7908	14.2147	0	1.57	3.2908	14.214673	1570	13700	-0.0007907	-0.0003042	-0.000370	0.0030127	12130	2.27E-03
605	2.4554	4.2660	0.8019	14.3260	0	1.57	3.3607	14.325960	1570	13845	-0.0008018	-0.0003085	-0.000375	0.0030767	12275	2.33E-03
610	2.4677	4.2815	0.8118	14.4202	0	1.57	3.3746	14.420193	1570	13968	-0.0008117	-0.0003123	-0.000380	0.0030894	12398	2.33E-03
615	2.4920	4.3410	0.8234	14.5239	0	1.57	3.4165	14.523892	1570	14104	-0.0008233	-0.0003168	-0.000385	0.0031278	12534	2.36E-03
620	2.5170	4.3438	0.8360	14.6235	0	1.57	3.4304	14.623456	1570	14234	-0.0008359	-0.0003217	-0.000391	0.0031405	12664	2.36E-03
625	2.5406	4.4039	0.8498	14.7345	0	1.57	3.4723	14.734510	1570	14379	-0.0008497	-0.0003257	-0.000397	0.0031789	12809	2.38E-03
630	2.5533	4.4190	0.8625	14.8274	0	1.57	3.4861	14.827438	1570	14500	-0.0008624	-0.0003319	-0.000403	0.0031916	12930	2.38E-03
635	2.5850	4.4150	0.8758	14.9268	0	1.57	3.5000	14.926756	1570	14630	-0.0008757	-0.0003357	-0.000401	0.0032043	13060	2.39E-03
640	2.6002	4.4276	0.8878	15.0219	0	1.57	3.5139	15.021909	1570	14754	-0.0008877	-0.0003416	-0.000415	0.0032169	13184	2.39E-03
645	2.6262	4.4854	0.8998	15.1297	0	1.57	3.5558	15.129727	1570	14895	-0.0008997	-0.0003462	-0.000421	0.0032553	13325	2.41E-03
650	2.6288	4.5666	0.9113	15.2262	0	1.57	3.5977	15.226178	1570	15021	-0.0009112	-0.0003506	-0.000426	0.0032937	13451	2.44E-03
655	2.6511	4.5721	0.9239	15.3416	0	1.57	3.6116	15.341629	1570	15172	-0.0009238	-0.0003555	-0.000432	0.0033064	13602	2.44E-03
660	2.6706	4.5802	0.9367	15.4518	0	1.57	3.6254	15.451781	1570	15316	-0.0009366	-0.0003604	-0.000438	0.0033191	13746	2.44E-03
665	2.7036	4.6872	0.9501	15.5517	0	1.57	3.6954	15.551726	1570	15447	-0.00095	-0.0003656	-0.000444	0.0033831	13877	2.49E-03
670	2.7294	4.6891	0.9634	15.6452	0	1.57	3.7093	15.645182	1570	15569	-0.0009633	-0.0003707	-0.000451	0.0033958	13999	2.49E-03
675	2.7556	4.7468	0.9767	15.7434	0	1.57	3.7512	15.743442	1570	15697	-0.0009766	-0.0003758	-0.000457	0.0034342	14127	2.52E-03
680	2.7775	4.7526	0.9902	15.8413	0	1.57	3.7651	15.841324	1570	15825	-0.0009901	-0.000381	-0.000463	0.0034469	14255	2.52E-03
685	2.7932	4.8208	1.0043	15.9501	0	1.57	3.8070	15.950088	1570	15967	-0.0010042	-0.0003864	-0.000470	0.0034853	14397	2.55E-03
690	2.8145	4.8271	1.0185	16.0610	0	1.57	3.8208	16.060993	1570	16112	-0.0010184	-0.0003919	-0.000476	0.0034980	14542	2.55E-03
695	2.8406	4.8849	1.0330	16.1796	0	1.57	3.8627	16.179614	1570	16267	-0.0010329	-0.0003975	-0.000483	0.0035363	14697	2.57E-03
700	2.8638	4.8894	1.0467	16.2871	0	1.57	3.8766	16.286710	1570	16407	-0.0010466	-0.0004027	-0.000490	0.0035490	14837	2.57E-03
705	2.8999	4.8811	1.0615	16.4001	0	1.57	3.8905	16.400093	1570	16555	-0.0010614	-0.0004084	-0.000497	0.0035617	14985	2.57E-03
710	2.9091	4.9557	1.0763	16.4988	0	1.57	3.9324	16.498768	1570	16684	-0.0010762	-0.0004141	-0.000503	0.0036001	15114	2.59E-03
715	2.9421	4.9504	1.0919	16.6086	0	1.57	3.9463	16.608556	1570	16828	-0.0010918	-0.0004201	-0.000511	0.0036128	15258	2.59E-03
720	2.9495	4.9708	1.1064	16.6991	0	1.57	3.9601	16.699067	1570	16946	-0.0011063	-0.0004257	-0.000518	0.0036255	15376	2.59E-03
725	2.9835	5.0206	1.1219	16.8027	0	1.57	4.0020	16.802728	1570	17082	-0.0011218	-0.0004317	-0.000525	0.0036639	15512	2.61E-03
730	3.0048	5.0270	1.1363	16.8983	0	1.57	4.0159	16.898325	1570	17206	-0.0011362	-0.0004372	-0.000532	0.0036766	15636	2.61E-03
735	3.0156	5.1562	1.1514	17.0089	0	1.57	4.0859	17.008931	1570	17351	-0.0011513	-0.000443	-0.000539	0.0037406	15781	2.66E-03
740	3.0273	5.1160	1.1669	17.1149	0	1.57	4.0717	17.114858	1570	17489	-0.0011668	-0.0004449	-0.000546	0.0037276	15919	2.64E-03
745	3.0544	5.2289	1.1826	17.2205	0	1.57	4.1417	17.220522	1570	17627	-0.0011825	-0.0004455	-0.000553	0.0037917	16057	2.69E-03
750	3.0918	5.1631	1.1987	17.3281	0	1.57	4.1275	17.328068	1570	17768	-0.0011986	-0.0004412	-0.000561	0.0037787	16198	2.66E-03
755	3.1277	5.2110	1.2137	17.4224	0	1.57	4.1694	17.422384	1570	17891	-0.0012136	-0.0004467	-0.000568	0.0038171	16321	2.68E-03
760	3.1361	5.2304	1.2294	17.5300	0	1.57	4.1832	17.530046	1							

980	4.1098	6.7111	2.2415	22.1575	0	1.57	5.4104	22.157546	1570	24079	-0.0022414	-0.0008625	-0.001049	0.0049532	22509	2.86E-03
985	4.1308	6.7739	2.2870	22.2332	0	1.57	5.4523	22.233164	1570	24178	-0.0022869	-0.000088	-0.001070	0.0049916	22608	2.85E-03
990	4.1569	6.8317	2.3386	22.3158	0	1.57	5.4943	22.315759	1570	24286	-0.0023385	-0.0008998	-0.001094	0.0050300	22716	2.84E-03
995	4.1772	6.8390	2.3982	22.3782	0	1.57	5.5081	22.378178	1570	24367	-0.0023981	-0.0009228	-0.001122	0.0050427	22797	2.80E-03
1000	4.2142	6.8859	2.4621	22.4893	0	1.57	5.5500	22.489326	1570	24512	-0.002462	-0.0009474	-0.001152	0.0050811	22942	2.78E-03
1005	4.2372	6.8906	2.5230	22.5756	0	1.57	5.5639	22.575589	1570	24625	-0.0025229	-0.0009708	-0.001180	0.0050938	23055	2.73E-03
1010	4.2831	6.8725	2.5809	22.6619	0	1.57	5.5778	22.661852	1570	24738	-0.0025807	-0.0009931	-0.001207	0.0051064	23168	2.69E-03
1015	4.3313	6.9081	2.6408	22.7481	0	1.57	5.6197	22.748116	1570	24851	-0.0026407	-0.0010161	-0.001235	0.0051448	23281	2.67E-03
1020	4.3591	6.9641	2.6992	22.8344	0	1.57	5.6616	22.834379	1570	24963	-0.0026991	-0.0010386	-0.001263	0.0051832	23393	2.66E-03
1025	4.3731	6.9217	2.7584	22.9206	0	1.57	5.6474	22.920642	1570	25076	-0.0027583	-0.0010614	-0.001290	0.0051702	23506	2.59E-03
1030	4.3918	6.9869	2.8179	23.0069	0	1.57	5.6893	23.006905	1570	25189	-0.0028178	-0.0010843	-0.001318	0.0052086	23619	2.57E-03
1035	4.4352	6.9712	2.8810	23.0932	0	1.57	5.7032	23.093168	1570	25301	-0.0028809	-0.0011086	-0.001348	0.0052213	23731	2.53E-03
1040	4.4802	7.0661	2.9413	23.1794	0	1.57	5.7732	23.179431	1570	25414	-0.0029411	-0.0011317	-0.001376	0.0052853	23844	2.53E-03
1045	4.5135	7.0605	2.9950	23.2657	0	1.57	5.7870	23.265694	1570	25527	-0.0029949	-0.0011524	-0.001401	0.0052980	23957	2.50E-03
1050	4.5351	7.0667	3.0467	23.3520	0	1.57	5.8009	23.351958	1570	25640	-0.0030466	-0.0011723	-0.001425	0.0053107	24070	2.46E-03
1055	4.5628	7.1228	3.1012	23.4382	0	1.57	5.8428	23.438221	1570	25752	-0.0031011	-0.0011933	-0.001451	0.0053491	24182	2.45E-03
1060	4.5992	7.1703	3.1512	23.5245	0	1.57	5.8847	23.524484	1570	25865	-0.0031511	-0.0012125	-0.001474	0.0053875	24295	2.44E-03
1065	4.6120	7.1851	3.1998	23.6107	0	1.57	5.8986	23.610747	1570	25978	-0.0031997	-0.0012313	-0.001497	0.0054002	24408	2.41E-03
1070	4.6471	7.1778	3.2510	23.6991	0	1.57	5.9125	23.699137	1570	26093	-0.0032509	-0.0012509	-0.001521	0.0054128	24523	2.37E-03
1075	4.6864	7.2224	3.2984	23.7667	0	1.57	5.9544	23.766702	1570	26182	-0.0032983	-0.0012692	-0.001543	0.0054512	24612	2.37E-03
1080	4.7054	7.2872	3.3453	23.8417	0	1.57	5.9863	23.841734	1570	26280	-0.0033452	-0.0012872	-0.001565	0.0054896	24710	2.36E-03
1085	4.7559	7.2083	3.3957	23.9312	0	1.57	5.9821	23.931190	1570	26397	-0.0033956	-0.0013066	-0.001588	0.0054766	24827	2.30E-03
1090	4.7905	7.2575	3.4430	24.0083	0	1.57	6.0240	24.008298	1570	26497	-0.0034429	-0.0013248	-0.001611	0.0055150	24927	2.29E-03
1095	4.8102	7.3216	3.4904	24.0899	0	1.57	6.0659	24.089912	1570	26604	-0.0034903	-0.0013434	-0.001633	0.0055534	25034	2.29E-03
1100	4.8392	7.3204	3.5401	24.1805	0	1.57	6.0798	24.180548	1570	26722	-0.00354	-0.0013622	-0.001656	0.0055661	25152	2.25E-03
1105	4.8746	7.3127	3.5902	24.2677	0	1.57	6.0937	24.267680	1570	26836	-0.0035901	-0.0013815	-0.001679	0.0055787	25266	2.22E-03
1110	4.8940	7.4333	3.6393	24.3539	0	1.57	6.1636	24.353912	1570	26949	-0.0036392	-0.0014004	-0.001702	0.0056428	25379	2.24E-03
1115	4.9354	7.4196	3.6915	24.4404	0	1.57	6.1775	24.440351	1570	27062	-0.0036914	-0.0014204	-0.001727	0.0056555	25492	2.20E-03
1120	4.9639	7.4188	3.7432	24.5257	0	1.57	6.1914	24.525692	1570	27173	-0.0037431	-0.0014403	-0.001751	0.0056682	25603	2.17E-03
1125	4.9941	7.4725	3.7964	24.6058	0	1.57	6.2333	24.605770	1570	27278	-0.0037963	-0.0014608	-0.001776	0.0056706	25708	2.15E-03
1130	5.0240	7.4703	3.8502	24.6882	0	1.57	6.2471	24.688234	1570	27386	-0.0038501	-0.0014815	-0.001801	0.0057193	25816	2.12E-03
1135	5.0509	7.4711	3.9047	24.7591	0	1.57	6.2610	24.759090	1570	27478	-0.0039046	-0.0015025	-0.001827	0.0057319	25908	2.08E-03
1140	5.0705	7.5914	3.9566	24.8297	0	1.57	6.3310	24.829730	1570	27571	-0.0039565	-0.0015224	-0.001851	0.0057960	26001	2.09E-03
1145	5.0974	7.5923	4.0093	24.9020	0	1.57	6.3448	24.902005	1570	27665	-0.0040092	-0.0015427	-0.001875	0.0058087	26095	2.06E-03
1150	5.1231	7.5943	4.0615	24.9764	0	1.57	6.3587	24.976441	1570	27762	-0.0040614	-0.0015628	-0.001900	0.0058214	26192	2.02E-03
1155	5.1454	7.6558	4.1134	25.0457	0	1.57	6.4006	25.045701	1570	27853	-0.0041133	-0.0015828	-0.001924	0.0058598	26283	2.01E-03
1160	5.1658	7.7193	4.1676	25.1206	0	1.57	6.4425	25.120643	1570	27951	-0.0041675	-0.0016036	-0.001950	0.0058981	26381	2.00E-03
1165	5.2007	7.6560	4.2248	25.1977	0	1.57	6.4283	25.197746	1570	28052	-0.0042247	-0.0016257	-0.001976	0.0059585	26482	1.93E-03
1170	5.2372	7.7594	4.2827	25.2668	0	1.57	6.4983	25.266752	1570	28142	-0.0042826	-0.0016479	-0.002003	0.0059492	26572	1.94E-03
1175	5.2626	7.7618	4.3410	25.3279	0	1.57	6.5122	25.327873	1570	28222	-0.0043409	-0.0016704	-0.002031	0.0059619	26662	1.90E-03
1180	5.3044	7.8038	4.4002	25.3939	0	1.57	6.5541	25.393894	1570	28308	-0.0044001	-0.0016932	-0.002058	0.0060003	26738	1.88E-03
1185	5.3271	7.7527	4.4558	25.4506	0	1.57	6.5399	25.450644	1570	28382	-0.0044557	-0.0017146	-0.002084	0.0059873	26812	1.82E-03
1190	5.3537	7.8100	4.5130	25.5120	0	1.57	6.5818	25.511986	1570	28462	-0.0045129	-0.0017366	-0.002111	0.0060257	26892	1.80E-03
1195	5.3823	7.8091	4.5726	25.5774	0	1.57	6.5957	25.577351	1570	28548	-0.0045725	-0.0017595	-0.002139	0.0060384	26978	1.76E-03
1200	5.4154	7.8598	4.6343	25.6545	0	1.57	6.6376	25.654543	1570	28648	-0.0046342	-0.0017832	-0.002168	0.0060767	27078	1.74E-03
1205	5.4311	7.8718	4.6944	25.7259	0	1.57	6.6515	25.725905	1570	28742	-0.0046943	-0.0018063	-0.002196	0.0060894	27172	1.70E-03
1210	5.4524	7.9343	4.7629	25.8179	0	1.57	6.6934	25.817870	1570	28862	-0.0047628	-0.0018327	-0.002228	0.0061278	27292	1.67E-03
1215	5.4922	7.9223	4.8290	25.8980	0	1.57	6.7073	25.898029	1570	28967	-0.0048289	-0.0018581	-0.002259	0.0061405	27397	1.62E-03
1220	5.5219	7.9765	4.8937	25.9679	0	1.57	6.7492	25.967941	1570	29058	-0.0048936	-0.0018831	-0.002289	0.0061789	27488	1.60E-03
1225	5.5430	7.9830	4.9582	26.0290	0	1.57	6.7630	26.028963	1570	29138	-0.0049581	-0.0019079	-0.002319	0.0061916	27568	1.55E-03
1230	5.5843	8.0817	5.0265	26.0921	0	1.57	6.8330	26.092113	1570	29220	-0.0050264	-0.0019342	-0.002351	0.0062556	27650	1.55E-03
1235	5.6004	8.0933	5.0926	26.1415	0	1.57	6.8469	26.141493	1570	29285	-0.0050925	-0.0019596	-0.002382	0.0062683	27715	1.50E-03
1240	5.6234	8.0980	5.1642	26.2041	0	1.57	6.8607	26.204070	1570	29367	-0.0051641	-0.0019871	-0.002416	0.0062810	27797	1.45E-03
1245	5.6655	8.0837	5.2344	26.2636	0	1.57	6.8746	26.263587	1570	29444	-0.0052343	-0.0020142	-0.002449	0.0062937	27874	1.40E-03
1250	5.7081	8.1250	5.3068	26.3187	0	1.57	6.9165	26.318713	1570	29516	-0.0053067	-0.0020242	-0.002482	0.0063321	27946	1.37E-03
1255	5.7410	8.1198	5.3817	26.3717	0	1.57	6.9304	26.371664	1570	29586	-0.0053816	-0.0020708	-0.002517	0.0063448	28016	1.31E-03
1260	5.7827	8.1618	5.4573	26.4155	0	1.57	6.9723	26.415472	1570	29643	-0.0054572	-0.0020999	-0.002553	0.0063831	28073	1.28E-03
1265	5.7967	8.1756	5.5361	26.4789	0	1.57	6.9862	26.478882	1570	29726	-0.005536	-0.0021303	-0.002590	0.0063958	28156	1.22E-03
1270	5.8221	8.2341	5.6242	26.5341	0	1.57	7.0281	26.534063	1570	29798	-0.0056241	-0.0021642	-0.002631	0.0064342	28228	1.17E-03
1275	5.8580	8.2259	5.7171	26.5892	0	1.57	7.0419	26.589244	1570	29870	-0.005717	-0.0021999	-0.002674	0.0064469	28300	1.10E-03
1280	5.8989	8.2688	5.8106	26.6444	0	1.57	7.0839	26.644425	1570	29942	-0.0058105	-0.0022359	-0.002718	0.0064853	28372	1.05E-03
1285	5.9444	8.2510	5.9075	26.6996	0	1.57	7.0977	26.699606	1570	30014	-0.0059074	-0.0022732	-0.002763	0.0064980	28444	9.71E-04
1290	5.9919	8.2874	5.9962	26.7548	0	1.57	7.1396	26.754787	1570	30086	-0.0059961	-0.0023073	-0.002805	0.0065363	28516	9.27E-04
1295	6.04															

1515	7.5641	9.2534	10.4397	27.7984	0	1.57	8.4087	27.798368	1570	31450	-0.0104396	-0.0040172	-0.004884	0.0076982	29880	-2.07E-03
1520	7.6214	9.2238	10.6136	27.7275	0	1.57	8.4226	27.727497	1570	31357	-0.0106135	-0.0040841	-0.004965	0.0077109	29787	-2.22E-03
1525	7.6511	9.2780	10.7942	27.6364	0	1.57	8.4645	27.636406	1570	31238	-0.0107941	-0.0041535	-0.005049	0.0077493	29668	-2.35E-03
1530	7.6735	9.2272	10.9727	27.5337	0	1.57	8.4503	27.533716	1570	31104	-0.0109726	-0.0042222	-0.005133	0.0077363	29534	-2.53E-03
1535	7.7224	9.2621	11.1596	27.4276	0	1.57	8.4922	27.427560	1570	30965	-0.0111595	-0.0042941	-0.005220	0.0077746	29395	-2.67E-03
1540	7.7642	9.2480	11.3620	27.2995	0	1.57	8.5061	27.299467	1570	30798	-0.0113619	-0.0043721	-0.005315	0.0077873	29228	-2.84E-03
1545	7.8139	9.2822	11.5651	27.1808	0	1.57	8.5480	27.180754	1570	30643	-0.011565	-0.0044502	-0.005410	0.0078257	29073	-2.99E-03
1550	7.8332	9.3467	11.7647	27.0621	0	1.57	8.5899	27.062108	1570	30488	-0.0117646	-0.004527	-0.005503	0.0078641	28918	-3.14E-03
1555	7.8847	9.3229	11.9649	26.9459	0	1.57	8.6038	26.945866	1570	30336	-0.0119648	-0.004604	-0.005597	0.0078768	28766	-3.32E-03
1560	7.9403	9.3512	12.1745	26.7992	0	1.57	8.6457	26.799225	1570	30144	-0.0121744	-0.0046847	-0.005695	0.0079152	28574	-3.48E-03
1565	7.9784	9.3969	12.4007	26.6059	0	1.57	8.6876	26.605905	1570	29892	-0.0124006	-0.0047717	-0.005801	0.0079535	28322	-3.65E-03
1570	8.0239	9.3791	12.6822	26.2908	0	1.57	8.7015	26.290753	1570	29480	-0.0126821	-0.0048801	-0.005933	0.0079662	27910	-3.90E-03



Test Type	Triaxial	
Company	Apache Corporation	
Well	University Lands 57-65 #1H	
Sample	38B	
Core/Depth (ft)	5039.70	
Diameter (in)	0.9799	
Length (in)	0.8235	
Mass (g)	25.92	
Saturation Fluid	As Received	
Sample Density (g/cc)	2.55	
Pore Pressure (psi)	0	
Static Young's Modulus ($\times 10^6$ psi)	Pc = 0	1.76
Static Young's Modulus ($\times 10^6$ psi)	Pc = 785	1.77
Static Young's Modulus ($\times 10^6$ psi)	Pc = 1570	1.81
Static Poisson's Ratio	Pc = 0	0.10
Static Poisson's Ratio	Pc = 785	0.20
Static Poisson's Ratio	Pc = 1570	0.26

Test Type
Company

Triaxial
Apache Corporation

diameter sample =
Length of the sample =
Initial Chord Length =
Sin(Theta/2) =
Theta =
Thickness of rubber
Confining Pressure
Pore Pressure

0.9799 inch
0.8235 inch
1.3830 inch
0.877 unitless
2.139 radians
0.0185 inches
1570 psi
0 psi
mass sat
mass dry
Test #
Depth-ft
Well
Density
Job #
Swi
25.92
388
5039.7
University Lands 57-65 #1H
2.55
121499
As Received
2.0 in

Plunger Diameter

2.0 in

For Triaxial Test

Young (Mpsi)
1.763
1.773
1.809
Poisson's Ratio
0.10
0.20
0.26
Confining Press (psi)
0
785
1570
Deviatory Press (psi)
3500
8900
14000
A S Rate (Strain/sec)
3.92E-06
4.13E-06
4.01E-06
Rate 2 (psi/min)
367
475
245
Sigma 1 (psi)
6489
12002
20037

	Cell Press ksi	LVDT 1 mil	LVDT 2 mil	LVDT 3 mil	Axial Load kip	Frame Def mil	Average Axial Def. mil	Pore Pressure ksi	System def corr. mil	TRUE Axial Def mil	Confining Stress psi	Axial Stress psi	Radial Deform in	True Radi Deform in	Radial Strain (in/in)	Axial Strain (in/in)	Deviatory Stress (psi)
0	0	0.1000	0.0027	0.0048	0.0000	-135	0.0514	0.0000	0.00E+00	4.37E-02	0	0	0	0	0.000000	0.000000	0
5	0	0.1359	0.0054	0.0044	0.0162	-135	0.0707	0.0000	9.72E-04	5.92E-02	0	21	4E-07	1.97E-07	0.000000	0.0000189	21
10	0	0.1731	0.0081	0.0065	0.0307	-135	0.0906	0.0000	1.84E-03	7.55E-02	0	41	-1.7E-06	-8.4E-07	-0.000001	0.0000386	41
15	0	0.2152	0.0054	0.0076	0.0461	-134	0.1103	0.0000	2.76E-03	9.14E-02	0	61	-2.8E-06	-1.4E-06	-0.000001	0.0000580	61
20	0	0.2535	0.0081	0.0083	0.0606	-134	0.1308	0.0000	3.63E-03	0.00E+00	0	80	-3.5E-06	-1.7E-06	-0.000002	0.0000783	80
25	0	0.3006	0.0027	0.0081	0.0751	-134	0.1517	0.0000	4.50E-03	1.25E-01	0	100	-3.3E-06	-1.6E-06	-0.000002	0.0000989	100
30	0	0.3408	0.0054	0.0105	0.0896	-134	0.1731	0.0000	5.37E-03	1.43E-01	0	119	-5.7E-06	-2.8E-06	-0.000003	0.0001201	119
35	0	0.3813	0.0054	0.0086	0.1041	-134	0.1933	0.0000	6.24E-03	1.59E-01	0	138	-3.8E-06	-1.9E-06	-0.000002	0.0001401	138
40	0	0.4193	0.0108	0.0095	0.1177	-134	0.2150	0.0000	7.06E-03	1.77E-01	0	156	-4.7E-06	-2.3E-06	-0.000002	0.0001617	156
45	0	0.4564	0.0135	0.0085	0.1339	-134	0.2350	0.0000	8.03E-03	1.93E-01	0	178	-3.7E-06	-1.8E-06	-0.000002	0.0001812	178
50	0	0.4983	0.0108	0.0088	0.1501	-134	0.2545	0.0000	9.01E-03	2.09E-01	0	199	-4E-06	-2E-06	-0.000002	0.0002004	199
55	0	0.5432	0.0081	0.0081	0.1655	-134	0.2756	0.0000	9.93E-03	2.26E-01	0	219	-3.3E-06	-1.6E-06	-0.000002	0.0002213	219
60	0	0.5785	0.0162	0.0098	0.1817	-134	0.2973	0.0000	1.09E-02	2.43E-01	0	241	-5E-06	-2.5E-06	-0.000003	0.0002426	241
65	0	0.6221	0.0135	0.0112	0.1945	-134	0.3178	0.0000	1.17E-02	2.60E-01	0	258	-6.4E-06	-3.1E-06	-0.000003	0.0002630	258
70	0	0.6628	0.0162	0.0130	0.2081	-134	0.3395	0.0000	1.25E-02	2.78E-01	0	276	-8.2E-06	-4E-06	-0.000004	0.0002845	276
75	0	0.7027	0.0189	0.0149	0.2218	-134	0.3608	0.0000	1.33E-02	2.95E-01	0	294	-1E-05	-5E-06	-0.000005	0.0003057	294
80	0	0.7424	0.0189	0.0159	0.2363	-134	0.3807	0.0000	1.42E-02	3.12E-01	0	313	-1.1E-05	-5.5E-06	-0.000006	0.0003253	313
85	0	0.7778	0.0243	0.0171	0.2533	-134	0.4011	0.0000	1.52E-02	3.28E-01	0	336	-1.2E-05	-6E-06	-0.000006	0.0003453	336
90	0	0.8174	0.0243	0.0179	0.2721	-134	0.4209	0.0000	1.63E-02	3.44E-01	0	361	-1.3E-05	-6.4E-06	-0.000007	0.0003645	361
95	0	0.8528	0.0297	0.0190	0.2900	-133	0.4413	0.0000	1.74E-02	3.60E-01	0	385	-1.4E-05	-7E-06	-0.000007	0.0003845	385
100	0	0.9003	0.0243	0.0197	0.3079	-133	0.4623	0.0000	1.85E-02	3.77E-01	0	408	-1.5E-05	-7.3E-06	-0.000007	0.0004051	408
105	0	0.9368	0.0297	0.0206	0.3267	-133	0.4833	0.0000	1.96E-02	3.94E-01	0	433	-1.6E-05	-7.8E-06	-0.000008	0.0004256	433
110	0	0.9761	0.0323	0.0220	0.3429	-133	0.5042	0.0000	2.06E-02	4.11E-01	0	455	-1.7E-05	-8.5E-06	-0.000009	0.0004462	455
115	0	0.1016	0.0350	0.0239	0.3608	-133	0.5258	0.0000	2.16E-02	4.29E-01	0	478	-1.9E-05	-9.4E-06	-0.000010	0.0004674	478
120	0	0.10524	0.0404	0.0238	0.3813	-133	0.5464	0.0000	2.29E-02	4.45E-01	0	506	-1.9E-05	-9.3E-06	-0.000010	0.0004874	506
125	0	0.10932	0.0404	0.0247	0.4017	-133	0.5668	0.0000	2.41E-02	4.61E-01	0	533	-2E-05	-9.8E-06	-0.000010	0.0005071	533
130	0	0.1289	0.0458	0.0263	0.4222	-133	0.5874	0.0000	2.53E-02	4.78E-01	0	560	-2.2E-05	-1.1E-05	-0.000011	0.0005271	560
135	0	0.1681	0.0485	0.0251	0.4410	-133	0.6083	0.0000	2.65E-02	4.95E-01	0	585	-2E-05	-1E-05	-0.000010	0.0005476	585
140	0	0.2052	0.0512	0.0248	0.4614	-133	0.6282	0.0000	2.77E-02	5.10E-01	0	612	-0.00002	-9.8E-06	-0.000010	0.0005688	612
145	0	0.2315	0.0674	0.0269	0.4785	-133	0.6494	0.0000	2.87E-02	5.28E-01	0	634	-2.2E-05	-1.1E-05	-0.000011	0.0005877	634
150	0	0.2672	0.0728	0.0272	0.4956	-133	0.6700	0.0000	2.97E-02	5.44E-01	0	657	-2.2E-05	-1.1E-05	-0.000011	0.0006079	657
155	0	0.2884	0.0917	0.0291	0.5126	-133	0.6901	0.0000	3.08E-02	5.60E-01	0	680	-2.4E-05	-1.2E-05	-0.000012	0.0006275	680
160	0	0.3209	0.0997	0.0303	0.5305	-132	0.7103	0.0000	3.18E-02	5.77E-01	0	704	-2.6E-05	-1.3E-05	-0.000013	0.0006473	704
165	0	0.3320	0.1294	0.0324	0.5502	-132	0.7307	0.0000	3.30E-02	5.93E-01	0	730	-2.8E-05	-1.4E-05	-0.000014	0.0006671	730
170	0	0.3563	0.1456	0.0321	0.5698	-132	0.7509	0.0000	3.42E-02	6.09E-01	0	756	-2.7E-05	-1.3E-05	-0.000014	0.0006868	756
175	0	0.3817	0.1617	0.0326	0.5894	-132	0.7717	0.0000	3.54E-02	6.26E-01	0	782	-2.8E-05	-1.4E-05	-0.000014	0.0007070	782
180	0	0.3999	0.1860	0.0324	0.6090	-132	0.7929	0.0000	3.65E-02	6.43E-01	0	808	-2.8E-05	-1.4E-05	-0.000014	0.0007277	808
185	0	0.4246	0.2022	0.0334	0.6295	-132	0.8134	0.0000	3.78E-02	6.59E-01	0	835	-2.9E-05	-1.4E-05	-0.000014	0.0007476	835
190	0	0.4439	0.2237	0.0340	0.6474	-132	0.8338	0.0000	3.88E-02	6.76E-01	0	858	-2.9E-05	-1.4E-05	-0.000015	0.0007675	858
195	0	0.4598	0.2480	0.0367	0.6662	-132	0.8539	0.0000	4.00E-02	6.92E-01	0	883	-3.2E-05	-1.6E-05	-0.000016	0.0007871	883
200	0	0.4779	0.2695	0.0381	0.6841	-132	0.8737	0.0000	4.10E-02	7.08E-01	0	907	-3.3E-05	-1.6E-05	-0.000017	0.0008064	907
205	0	0.5018	0.2857	0.0393	0.7028	-132	0.8938	0.0000	4.22E-02	7.24E-01	0	932	-3.5E-05	-1.7E-05	-0.000017	0.0008260	932
210	0	0.5236	0.3046	0.0412	0.7216	-132	0.9141	0.0000	4.33E-02	7.40E-01	0	957	-3.6E-05	-1.8E-05	-0.000018	0.0008458	957
215	0	0.5446	0.3261	0.0415	0.7395	-132	0.9354	0.0000	4.44E-02	7.57E-01	0	981	-3.7E-05	-1.8E-05	-0.000018	0.0008666	981
220	0	0.5666	0.3477	0.0414	0.7583	-132	0.9572	0.0000	4.55E-02	7.75E-01	0	1005	-3.7E-05	-1.8E-05	-0.000018	0.0008880	1005
225	0	0.5843	0.3719	0.0415	0.7779	-132	0.9781	0.0000	4.67E-02	7.92E-01	0	1031	-3.7E-05	-1.8E-05	-0.000018	0.0009084	1031
230	0	0.6068	0.3908	0.0412	0.7975	-132	0.9988	0.0000	4.79E-02	8.08E-01	0	1057	-3.6E-05	-1.8E-05	-0.000018	0.0009286	1057
235	0	0.6271	0.4124	0.0422	0.8171	-131	0.10198	0.0000	4.90E-02	8.25E-01	0	1084	-3.7E-05	-1.8E-05	-0.000019	0.0009490	1084
240	0	0.6417	0.4393	0.0429	0.8376	-131	0.10405	0.0000	5.03E-02	8.42E-01	0	1111	-3.8E-05	-1.9E-05	-0.000019	0.0009691	1111
245	0	0.6655	0.4555	0.0445	0.8572	-131	0.10605	0.0000	5.14E-02	8.58E-01	0	1137	-4E-05	-2E-05	-0.000020	0.0009885	1137
250	0	0.6867	0.4743	0.0464	0.8777	-131	0.10805	0.0000	5.27E-02	8.74E-01	0	1164	-4.2E-05	-2E-05	-0.000021	0.0010079	1164
255	0	0.7037	0.4986	0.0483	0.8964	-131	0.11011	0.0000	5.38E-02	8.90E-01	0	1189	-4.4E-05	-2.1E-05	-0.000022	0.0010280	1189
260	0	0.7162	0.5282	0.0506	0.9169	-131	0.11222	0.0000	5.50E-02	9.07E-01	0	1216	-4.6E-05	-2.3E-05	-0.000023	0.0010485	1216
265	0	0.7396	0.5444	0.0522	0.9382	-131	0.11420	0.0000	5.63E-02	9.23E-01	0	1244	-4.7E-05	-2.3E-05	-0.000024	0.0010676	1244
270	0	0.7640	0.5605	0.0529	0.9596	-131	0.11623	0.0000	5.76E-02	9.39E-01	0	1272	-4.8E-05	-2.4E-05	-0.000024	0.0010872	1272
275	0	0.7853	0.5821	0.0548	0.9792	-131	0.11837	0.0000	5.88E-02	9.56E-01	0	1298	-0.00005	-2.5E-05	-0.000025	0.0011081	1298
280	0	0.7944	0.6144	0.0571	1.0014	-131	0.12044	0.0000	6.01E-02	9.73E-01	0	1328	-5.2E-05	-2.6E-05	-0.000026	0.0011281	1328
285	0	0.8175	0.6306	0.0565	1.0227	-131	0.12241	0.0000	6.14E-02	9.88							

495	0	2.5832	1.5972	0.1231	1.9875	-128	2.0902	0.0000	1.19E-01	1.68E+00	0	2635	-0.00012	-5.8E-05	-0.000059	0.0019814	2635
500	0	2.6146	1.6080	0.1240	2.0140	-128	2.1113	0.0000	1.21E-01	1.69E+00	0	2671	-0.00012	-5.9E-05	-0.000060	0.0020015	2671
505	0	2.6256	1.6376	0.1256	2.0421	-128	2.1316	0.0000	1.23E-01	1.71E+00	0	2708	-0.00012	-5.9E-05	-0.000061	0.0020207	2708
510	0	2.6504	1.6537	0.1281	2.0668	-128	2.1520	0.0000	1.24E-01	1.72E+00	0	2741	-0.00012	-6.1E-05	-0.000062	0.0020403	2741
515	0	2.6646	1.6806	0.1308	2.0924	-128	2.1726	0.0000	1.26E-01	1.74E+00	0	2775	-0.00013	-6.2E-05	-0.000063	0.0020599	2775
520	0	2.6716	1.7129	0.1323	2.1163	-128	2.1923	0.0000	1.27E-01	1.76E+00	0	2806	-0.00013	-6.3E-05	-0.000064	0.0020787	2806
525	0	2.6959	1.7291	0.1346	2.1394	-128	2.2125	0.0000	1.28E-01	1.77E+00	0	2837	-0.00013	-6.4E-05	-0.000065	0.0020982	2837
530	0	2.7131	1.7533	0.1374	2.1650	-128	2.2332	0.0000	1.30E-01	1.79E+00	0	2871	-0.00013	-6.5E-05	-0.000066	0.0021180	2871
535	0	2.7297	1.7775	0.1399	2.1888	-128	2.2536	0.0000	1.31E-01	1.80E+00	0	2902	-0.00014	-6.6E-05	-0.000068	0.0021376	2902
540	0	2.7462	1.8017	0.1439	2.2136	-128	2.2740	0.0000	1.33E-01	1.82E+00	0	2935	-0.00014	-6.8E-05	-0.000070	0.0021570	2935
545	0	2.7661	1.8233	0.1458	2.2383	-128	2.2947	0.0000	1.34E-01	1.84E+00	0	2968	-0.00014	-6.9E-05	-0.000071	0.0021769	2968
550	0	2.7820	1.8475	0.1495	2.2631	-128	2.3148	0.0000	1.36E-01	1.85E+00	0	3001	-0.00014	-7.1E-05	-0.000073	0.0021961	3001
555	0	2.8019	1.8690	0.1523	2.2887	-127	2.3355	0.0000	1.37E-01	1.87E+00	0	3035	-0.00015	-7.2E-05	-0.000074	0.0022159	3035
560	0	2.8163	1.8959	0.1539	2.3160	-127	2.3561	0.0000	1.39E-01	1.88E+00	0	3071	-0.00015	-7.3E-05	-0.000075	0.0022355	3071
565	0	2.8360	1.9174	0.1565	2.3364	-127	2.3767	0.0000	1.40E-01	1.90E+00	0	3098	-0.00015	-7.5E-05	-0.000076	0.0022555	3098
570	0	2.8544	1.9416	0.1617	2.3603	-127	2.3980	0.0000	1.42E-01	1.92E+00	0	3130	-0.00016	-7.7E-05	-0.000079	0.0022760	3130
575	0	2.8722	1.9659	0.1660	2.3825	-127	2.4191	0.0000	1.43E-01	1.93E+00	0	3159	-0.00016	-7.9E-05	-0.000081	0.0022963	3159
580	0	2.8893	1.9901	0.1702	2.4047	-127	2.4397	0.0000	1.44E-01	1.95E+00	0	3189	-0.00017	-8.1E-05	-0.000083	0.0023163	3189
585	0	2.9181	2.0035	0.1745	2.4269	-127	2.4608	0.0000	1.46E-01	1.97E+00	0	3218	-0.00017	-8.3E-05	-0.000085	0.0023367	3218
590	0	2.9372	2.0250	0.1777	2.4533	-127	2.4811	0.0000	1.47E-01	1.98E+00	0	3253	-0.00017	-8.5E-05	-0.000087	0.0023560	3253
595	0	2.9581	2.0439	0.1801	2.4772	-127	2.5010	0.0000	1.49E-01	2.00E+00	0	3285	-0.00018	-8.6E-05	-0.000088	0.0023751	3285
600	0	2.9715	2.0708	0.1828	2.5036	-127	2.5212	0.0000	1.50E-01	2.02E+00	0	3320	-0.00018	-8.7E-05	-0.000089	0.0023942	3320
605	0	2.9907	2.0923	0.1856	2.5292	-127	2.5415	0.0000	1.52E-01	2.03E+00	0	3354	-0.00018	-8.9E-05	-0.000091	0.0024136	3354
610	0	3.0158	2.1084	0.1903	2.5540	-127	2.5621	0.0000	1.53E-01	2.05E+00	0	3387	-0.00019	-9.1E-05	-0.000093	0.0024334	3387
615	0	3.0301	2.1353	0.1955	2.5847	-127	2.5827	0.0000	1.55E-01	2.06E+00	0	3427	-0.00019	-9.4E-05	-0.000096	0.0024527	3427
620	0	3.0499	2.1569	0.2000	2.6154	-127	2.6034	0.0000	1.57E-01	2.08E+00	0	3468	-0.0002	-9.6E-05	-0.000098	0.0024722	3468
625	0	3.0739	2.1757	0.2024	2.6393	-127	2.6248	0.0000	1.58E-01	2.10E+00	0	3500	-0.0002	-9.7E-05	-0.000099	0.0024928	3500
630	0	3.0908	2.1999	0.2060	2.6649	-126	2.6454	0.0000	1.60E-01	2.11E+00	0	3534	-0.0002	-9.9E-05	-0.000101	0.0025124	3534
635	0	3.0990	2.2322	0.2100	2.6905	-126	2.6656	0.0000	1.61E-01	2.13E+00	0	3568	-0.00021	-0.0001	-0.000103	0.0025317	3568
640	0	3.1197	2.2537	0.2124	2.7127	-126	2.6867	0.0000	1.63E-01	2.15E+00	0	3597	-0.00021	-0.0001	-0.000104	0.0025521	3597
645	0	3.1424	2.2725	0.2164	2.7349	-126	2.7075	0.0000	1.64E-01	2.16E+00	0	3626	-0.00021	-0.0001	-0.000106	0.0025722	3626
650	0	3.1697	2.2860	0.2232	2.7639	-126	2.7279	0.0000	1.65E-01	2.18E+00	0	3665	-0.00022	-0.00011	-0.000110	0.0025915	3665
655	0	3.1877	2.3102	0.2273	2.7912	-126	2.7489	0.0000	1.67E-01	2.19E+00	0	3701	-0.00022	-0.00011	-0.000112	0.0026115	3701
660	0	3.2062	2.3317	0.2315	2.8202	-126	2.7690	0.0000	1.69E-01	2.21E+00	0	3740	-0.00023	-0.00011	-0.000114	0.0026304	3740
665	0	3.2253	2.3532	0.2375	2.8475	-126	2.7892	0.0000	1.71E-01	2.23E+00	0	3776	-0.00023	-0.00011	-0.000117	0.0026496	3776
670	0	3.2449	2.3747	0.2428	2.8748	-126	2.8098	0.0000	1.72E-01	2.24E+00	0	3812	-0.00024	-0.00012	-0.000119	0.0026692	3812
675	0	3.2583	2.4016	0.2465	2.9012	-126	2.8300	0.0000	1.74E-01	2.26E+00	0	3847	-0.00024	-0.00012	-0.000121	0.0026883	3847
680	0	3.2859	2.4151	0.2524	2.9277	-126	2.8505	0.0000	1.76E-01	2.27E+00	0	3882	-0.00025	-0.00012	-0.000124	0.0027079	3882
685	0	3.3051	2.4393	0.2566	2.9524	-126	2.8722	0.0000	1.77E-01	2.29E+00	0	3915	-0.00025	-0.00012	-0.000126	0.0027288	3915
690	0	3.3232	2.4635	0.2621	2.9780	-126	2.8934	0.0000	1.79E-01	2.31E+00	0	3949	-0.00026	-0.00013	-0.000129	0.0027490	3949
695	0	3.3397	2.4877	0.2671	3.0045	-126	2.9137	0.0000	1.80E-01	2.32E+00	0	3984	-0.00026	-0.00013	-0.000132	0.0027684	3984
700	0	3.3571	2.5119	0.2732	3.0301	-126	2.9345	0.0000	1.82E-01	2.34E+00	0	4018	-0.00027	-0.00013	-0.000135	0.0027882	4018
705	0	3.3753	2.5334	0.2791	3.0565	-126	2.9543	0.0000	1.83E-01	2.36E+00	0	4053	-0.00027	-0.00013	-0.000138	0.0028071	4053
710	0	3.3957	2.5522	0.2856	3.0829	-126	2.9739	0.0000	1.85E-01	2.37E+00	0	4088	-0.00028	-0.00014	-0.000141	0.0028267	4088
715	0	3.4192	2.5684	0.2910	3.1085	-126	2.9938	0.0000	1.87E-01	2.39E+00	0	4122	-0.00029	-0.00014	-0.000144	0.0028466	4122
720	0	3.4416	2.5872	0.2966	3.1341	-125	3.0144	0.0000	1.88E-01	2.40E+00	0	4156	-0.00029	-0.00014	-0.000146	0.0028663	4156
725	0	3.4619	2.6087	0.3021	3.1606	-125	3.0353	0.0000	1.90E-01	2.42E+00	0	4191	-0.0003	-0.00015	-0.000149	0.0028842	4191
730	0	3.4861	2.6275	0.3068	3.1870	-125	3.0568	0.0000	1.91E-01	2.44E+00	0	4226	-0.0003	-0.00015	-0.000151	0.0029048	4226
735	0	3.5056	2.6491	0.3121	3.2109	-125	3.0773	0.0000	1.93E-01	2.45E+00	0	4258	-0.00031	-0.00015	-0.000154	0.0029245	4258
740	0	3.5205	2.6759	0.3179	3.2382	-125	3.0982	0.0000	1.94E-01	2.47E+00	0	4294	-0.00031	-0.00015	-0.000157	0.0029444	4294
745	0	3.5403	2.6975	0.3229	3.2638	-125	3.1189	0.0000	1.96E-01	2.48E+00	0	4328	-0.00032	-0.00016	-0.000160	0.0029641	4328
750	0	3.5606	2.7190	0.3285	3.2911	-125	3.1398	0.0000	1.97E-01	2.50E+00	0	4364	-0.00032	-0.00016	-0.000162	0.0029840	4364
755	0	3.5828	2.7378	0.3345	3.3184	-125	3.1603	0.0000	1.99E-01	2.52E+00	0	4400	-0.00033	-0.00016	-0.000165	0.0030035	4400
760	0	3.6020	2.7593	0.3416	3.3474	-125	3.1807	0.0000	2.01E-01	2.53E+00	0	4439	-0.00034	-0.00017	-0.000169	0.0030227	4439
765	0	3.6211	2.7808	0.3463	3.3730	-125	3.2010	0.0000	2.02E-01	2.55E+00	0	4473	-0.00034	-0.00017	-0.000171	0.0030421	4473
770	0	3.6345	2.8077	0.3538	3.4037	-125	3.2211	0.0000	2.04E-01	2.56E+00	0	4513	-0.00035	-0.00017	-0.000175	0.0030609	4513
775	0	3.6517	2.8319	0.3610	3.4319	-125	3.2418	0.0000	2.05E-01	2.58E+00	0	4551	-0.00036	-0.00018	-0.000178	0.0030803	4551
780	0	3.6679	2.8561	0.3672	3.4600	-125	3.2620	0.0000	2.08E-01	2.60E+00	0	4588	-0.00036	-0.00018	-0.000182	0.0030997	4588
785	0	3.6857	2.8803	0.3719	3.4890	-125	3.2830	0.0000	2.09E-01	2.61E+00	0	4626	-0.00037	-0.00018	-0.000184	0.0031195	4626
790	0	3.6993	2.9099	0.3799	3.5181	-125	3.3046	0.0000	2.11E-01	2.63E+00	0	4665	-0.00038	-0.00018	-0.000188	0.0031391	4665
795	0	3.7116	2.9394	0.3849	3.5428	-125	3.3255	0.0000	2.13E-01	2.65E+00	0	4698	-0.00038	-0.00019	-0.000191	0.0031601	4698
800	0	3.7334	2.9583	0.3913	3.5693	-124	3.3458	0.0000	2.14E-01	2.66E+00	0	4733	-0.00039	-0.00019	-0.000194	0.0031794	4733
805	0	3.7553	2.9771	0.3990	3.5949	-124	3.3662	0.0000	2.16E-01	2.68E+00	0	4767	-0.00039	-0.00019	-0.000198	0.0031989	4767
810	0	3.7740	3.0013	0.4074	3.6205	-124	3.3877	0.0000	2.17E-01	2.69E+00	0	4801	-0.0004				

1080	0.785	4.6065	4.7183	0.2309	5.1717	-113	4.6624	0.0000	3.10E-01	3.70E+00	785	7643	-0.00023	-0.00011	-0.000113	0.0044392	6858
1085	0.785	4.6345	4.7317	0.2343	5.2050	-113	4.6831	0.0000	3.12E-01	3.72E+00	785	7687	-0.00023	-0.00011	-0.000115	0.0044584	6902
1090	0.785	4.6496	4.7586	0.2381	5.2391	-113	4.7041	0.0000	3.14E-01	3.73E+00	785	7732	-0.00023	-0.00011	-0.000117	0.0044780	6947
1095	0.785	4.6659	4.7828	0.2435	5.2690	-113	4.7243	0.0000	3.16E-01	3.75E+00	785	7772	-0.00024	-0.00012	-0.000120	0.0044970	6987
1100	0.785	4.6798	4.8096	0.2484	5.2997	-113	4.7447	0.0000	3.18E-01	3.76E+00	785	7812	-0.00024	-0.00012	-0.000122	0.0045161	7027
1105	0.785	4.7065	4.8231	0.2521	5.3304	-113	4.7648	0.0000	3.20E-01	3.78E+00	785	7853	-0.00025	-0.00012	-0.000124	0.0045350	7068
1110	0.785	4.7215	4.8499	0.2575	5.3603	-113	4.7857	0.0000	3.22E-01	3.79E+00	785	7893	-0.00025	-0.00012	-0.000127	0.0045547	7108
1115	0.785	4.7433	4.8687	0.2619	5.3918	-113	4.8060	0.0000	3.24E-01	3.81E+00	785	7935	-0.00026	-0.00013	-0.000129	0.0045737	7150
1120	0.785	4.7673	4.8875	0.2675	5.4234	-113	4.8274	0.0000	3.25E-01	3.83E+00	785	7976	-0.00026	-0.00013	-0.000132	0.0045938	7191
1125	0.785	4.7873	4.9090	0.2719	5.4524	-113	4.8481	0.0000	3.27E-01	3.84E+00	785	8015	-0.00027	-0.00013	-0.000134	0.0046135	7230
1130	0.785	4.8046	4.9332	0.2774	5.4823	-113	4.8689	0.0000	3.29E-01	3.86E+00	785	8055	-0.00027	-0.00013	-0.000137	0.0046330	7270
1135	0.785	4.8219	4.9574	0.2834	5.5105	-113	4.8897	0.0000	3.31E-01	3.88E+00	785	8092	-0.00028	-0.00014	-0.000140	0.0046527	7307
1140	0.785	4.8355	4.9842	0.2900	5.5395	-113	4.9098	0.0000	3.32E-01	3.89E+00	785	8130	-0.00029	-0.00014	-0.000143	0.0046718	7345
1145	0.785	4.8572	5.0030	0.2953	5.5685	-113	4.9301	0.0000	3.34E-01	3.91E+00	785	8169	-0.00029	-0.00014	-0.000146	0.0046909	7384
1150	0.785	4.8792	5.0245	0.3009	5.5984	-113	4.9518	0.0000	3.36E-01	3.92E+00	785	8208	-0.0003	-0.00015	-0.000148	0.0047115	7423
1155	0.785	4.8965	5.0487	0.3060	5.6265	-113	4.9726	0.0000	3.38E-01	3.94E+00	785	8246	-0.0003	-0.00015	-0.000151	0.0047311	7461
1160	0.785	4.9167	5.0702	0.3103	5.6564	-113	4.9934	0.0000	3.39E-01	3.96E+00	785	8285	-0.00031	-0.00015	-0.000153	0.0047508	7500
1165	0.785	4.9355	5.0943	0.3154	5.6829	-113	5.0149	0.0000	3.41E-01	3.97E+00	785	8321	-0.00031	-0.00015	-0.000156	0.0047713	7536
1170	0.785	4.9518	5.1185	0.3202	5.7102	-113	5.0351	0.0000	3.43E-01	3.99E+00	785	8357	-0.00032	-0.00015	-0.000158	0.0047905	7572
1175	0.785	4.9701	5.1400	0.3248	5.7392	-112	5.0550	0.0000	3.44E-01	4.00E+00	785	8395	-0.00032	-0.00016	-0.000160	0.0048093	7610
1180	0.785	4.9891	5.1615	0.3307	5.7682	-112	5.0753	0.0000	3.46E-01	4.02E+00	785	8434	-0.00033	-0.00016	-0.000163	0.0048284	7649
1185	0.785	5.0068	5.1830	0.3362	5.7955	-112	5.0949	0.0000	3.48E-01	4.04E+00	785	8470	-0.00033	-0.00016	-0.000166	0.0048469	7685
1190	0.785	5.0252	5.2044	0.3427	5.8245	-112	5.1148	0.0000	3.49E-01	4.05E+00	785	8508	-0.00034	-0.00017	-0.000169	0.0048657	7723
1195	0.785	5.0421	5.2286	0.3479	5.8527	-112	5.1354	0.0000	3.51E-01	4.07E+00	785	8546	-0.00034	-0.00017	-0.000172	0.0048851	7761
1200	0.785	5.0624	5.2501	0.3549	5.8791	-112	5.1562	0.0000	3.53E-01	4.08E+00	785	8581	-0.00035	-0.00017	-0.000176	0.0049051	7796
1205	0.785	5.0853	5.2689	0.3609	5.9056	-112	5.1771	0.0000	3.54E-01	4.10E+00	785	8616	-0.00036	-0.00017	-0.000179	0.0049250	7831
1210	0.785	5.1041	5.2931	0.3668	5.9329	-112	5.1986	0.0000	3.56E-01	4.12E+00	785	8652	-0.00036	-0.00018	-0.000182	0.0049455	7867
1215	0.785	5.1246	5.3145	0.3711	5.9602	-112	5.2195	0.0000	3.58E-01	4.13E+00	785	8688	-0.00037	-0.00018	-0.000184	0.0049654	7903
1220	0.785	5.1416	5.3387	0.3780	5.9866	-112	5.2402	0.0000	3.59E-01	4.15E+00	785	8723	-0.00037	-0.00018	-0.000187	0.0049850	7938
1225	0.785	5.1600	5.3602	0.3830	6.0131	-112	5.2601	0.0000	3.61E-01	4.16E+00	785	8758	-0.00038	-0.00019	-0.000190	0.0050040	7973
1230	0.785	5.1779	5.3817	0.3889	6.0395	-112	5.2798	0.0000	3.62E-01	4.18E+00	785	8793	-0.00038	-0.00019	-0.000193	0.0050227	8008
1235	0.785	5.2002	5.4035	0.3961	6.0660	-112	5.3004	0.0000	3.64E-01	4.20E+00	785	8829	-0.00039	-0.00019	-0.000196	0.0050422	8044
1240	0.785	5.2197	5.4220	0.4037	6.0925	-112	5.3209	0.0000	3.66E-01	4.21E+00	785	8864	-0.0004	-0.0002	-0.000200	0.0050618	8079
1245	0.785	5.2358	5.4461	0.4101	6.1189	-112	5.3410	0.0000	3.67E-01	4.23E+00	785	8899	-0.00041	-0.0002	-0.000203	0.0050809	8114
1250	0.785	5.2581	5.4649	0.4179	6.1462	-112	5.3615	0.0000	3.69E-01	4.24E+00	785	8935	-0.00041	-0.0002	-0.000207	0.0051004	8150
1255	0.785	5.2736	5.4918	0.4239	6.1744	-112	5.3827	0.0000	3.70E-01	4.26E+00	785	8972	-0.00042	-0.00021	-0.000210	0.0051205	8187
1260	0.785	5.2919	5.5133	0.4313	6.2017	-112	5.4026	0.0000	3.72E-01	4.28E+00	785	9009	-0.00043	-0.00021	-0.000214	0.0051393	8224
1265	0.785	5.3084	5.5374	0.4380	6.2290	-112	5.4229	0.0000	3.74E-01	4.29E+00	785	9045	-0.00043	-0.00021	-0.000217	0.0051586	8260
1270	0.785	5.3322	5.5562	0.4445	6.2563	-112	5.4442	0.0000	3.75E-01	4.31E+00	785	9081	-0.00044	-0.00022	-0.000220	0.0051789	8296
1275	0.785	5.3530	5.5777	0.4504	6.2828	-111	5.4653	0.0000	3.77E-01	4.33E+00	785	9116	-0.00045	-0.00022	-0.000223	0.0051991	8331
1280	0.785	5.3706	5.6019	0.4568	6.3084	-111	5.4862	0.0000	3.79E-01	4.34E+00	785	9150	-0.00045	-0.00022	-0.000227	0.0052191	8365
1285	0.785	5.3953	5.6180	0.4636	6.3365	-111	5.5067	0.0000	3.80E-01	4.36E+00	785	9187	-0.00046	-0.00023	-0.000230	0.0052384	8402
1290	0.785	5.4102	5.6448	0.4709	6.3630	-111	5.5275	0.0000	3.82E-01	4.37E+00	785	9222	-0.00047	-0.00023	-0.000234	0.0052583	8437
1295	0.785	5.4268	5.6690	0.4768	6.3903	-111	5.5479	0.0000	3.83E-01	4.39E+00	785	9259	-0.00047	-0.00023	-0.000237	0.0052777	8474
1300	0.785	5.4483	5.6878	0.4830	6.4168	-111	5.5681	0.0000	3.85E-01	4.41E+00	785	9294	-0.00048	-0.00023	-0.000240	0.0052968	8509
1305	0.785	5.4729	5.7039	0.4894	6.4432	-111	5.5884	0.0000	3.87E-01	4.42E+00	785	9329	-0.00048	-0.00024	-0.000243	0.0053162	8544
1310	0.785	5.4892	5.7308	0.4946	6.4697	-111	5.6100	0.0000	3.88E-01	4.44E+00	785	9364	-0.00049	-0.00024	-0.000246	0.0053368	8579
1315	0.785	5.5139	5.7469	0.4998	6.4970	-111	5.6304	0.0000	3.90E-01	4.45E+00	785	9400	-0.0005	-0.00024	-0.000248	0.0053562	8615
1320	0.785	5.5343	5.7684	0.5074	6.5226	-111	5.6514	0.0000	3.91E-01	4.47E+00	785	9434	-0.0005	-0.00025	-0.000252	0.0053763	8649
1325	0.785	5.5521	5.7925	0.5152	6.5499	-111	5.6723	0.0000	3.93E-01	4.49E+00	785	9470	-0.00051	-0.00025	-0.000256	0.0053962	8685
1330	0.785	5.5747	5.8113	0.5236	6.5772	-111	5.6930	0.0000	3.95E-01	4.50E+00	785	9506	-0.00052	-0.00025	-0.000260	0.0054158	8721
1335	0.785	5.5936	5.8328	0.5313	6.6020	-111	5.7132	0.0000	3.96E-01	4.52E+00	785	9539	-0.00053	-0.00026	-0.000264	0.0054352	8754
1340	0.785	5.6146	5.8543	0.5396	6.6284	-111	5.7344	0.0000	3.98E-01	4.54E+00	785	9574	-0.00053	-0.00026	-0.000268	0.0054555	8789
1345	0.785	5.6343	5.8758	0.5472	6.6558	-111	5.7551	0.0000	3.99E-01	4.55E+00	785	9611	-0.00054	-0.00027	-0.000272	0.0054750	8826
1350	0.785	5.6539	5.8973	0.5550	6.6831	-111	5.7756	0.0000	4.01E-01	4.57E+00	785	9647	-0.00055	-0.00027	-0.000276	0.0054946	8862
1355	0.785	5.6710	5.9214	0.5618	6.7104	-111	5.7962	0.0000	4.02E-01	4.58E+00	785	9683	-0.00056	-0.00027	-0.000279	0.0055141	8898
1360	0.785	5.6920	5.9429	0.5698	6.7377	-111	5.8175	0.0000	4.04E-01	4.60E+00	785	9719	-0.00057	-0.00028	-0.000283	0.0055344	8934
1365	0.785	5.7145	5.9617	0.5773	6.7641	-111	5.8381	0.0000	4.06E-01	4.62E+00	785	9754	-0.00057	-0.00028	-0.000287	0.0055540	8969
1370	0.785	5.7295	5.9859	0.5844	6.7906	-111	5.8577	0.0000	4.07E-01	4.63E+00	785	9789	-0.00058	-0.00028	-0.000291	0.0055727	9004
1375	0.785	5.7489	6.0073	0.5927	6.8162	-111	5.8781	0.0000	4.09E-01	4.65E+00	785	9823	-0.00059	-0.00029	-0.000295	0.0055921	9038
1380	0.785	5.7688	6.0288	0.6015	6.8409	-110	5.8988	0.0000	4.10E-01	4.67E+00	785	9856	-0.0006	-0.00029	-0.000299	0.0056119	9071
1385	0.785	5.7877	6.0503	0.6097	6.8665	-110	5.9190	0.0000	4.12E-								

1665	0.785	6.8566	7.2880	1.2046	8.2876	-108	7.0723	0.0000	4.97E-01	5.59E+00	785	11774	-0.0012	-0.00059	-0.000602	0.0067336	10989
1670	0.785	6.8772	7.3068	1.2197	8.3124	-108	7.0920	0.0000	4.99E-01	5.60E+00	785	11807	-0.00121	-0.0006	-0.000609	0.0067524	11022
1675	0.785	6.9005	7.3229	1.2343	8.3363	-108	7.1117	0.0000	5.00E-01	5.62E+00	785	11839	-0.00123	-0.0006	-0.000616	0.0067712	11054
1680	0.785	6.9164	7.3498	1.2471	8.3602	-108	7.1311	0.0000	5.02E-01	5.64E+00	785	11871	-0.00124	-0.00061	-0.000623	0.0067919	11086
1685	0.785	6.9388	7.3686	1.2603	8.3841	-108	7.1537	0.0000	5.03E-01	5.65E+00	785	11902	-0.00126	-0.00062	-0.000630	0.0068117	11117
1690	0.785	6.9527	7.3954	1.2735	8.4097	-107	7.1740	0.0000	5.05E-01	5.67E+00	785	11936	-0.00127	-0.00062	-0.000636	0.0068311	11151
1695	0.785	6.9708	7.4115	1.2854	8.4336	-107	7.1951	0.0000	5.06E-01	5.69E+00	785	11968	-0.00128	-0.00063	-0.000642	0.0068514	11183
1700	0.785	6.9911	7.4411	1.3001	8.4592	-107	7.2161	0.0000	5.08E-01	5.70E+00	785	12002	-0.0013	-0.00064	-0.000649	0.0068714	11217
1705	1.57	7.2469	7.8469	0.2213	8.4794	-101	7.5469	0.0000	5.09E-01	5.98E+00	1570	12814	-0.00022	-0.00011	-0.000109	0.0072116	11244
1710	1.57	7.2673	7.8673	0.2224	8.5118	-101	7.5673	0.0000	5.11E-01	6.00E+00	1570	12857	-0.00022	-0.00011	-0.000109	0.0072307	11287
1715	1.57	7.2878	7.8878	0.2286	8.5432	-101	7.5878	0.0000	5.13E-01	6.01E+00	1570	12898	-0.00022	-0.00011	-0.000112	0.0072499	11328
1720	1.57	7.3082	7.9082	0.2350	8.5754	-101	7.6082	0.0000	5.15E-01	6.03E+00	1570	12941	-0.00023	-0.00011	-0.000115	0.0072689	11371
1725	1.57	7.3285	7.9285	0.2363	8.6075	-101	7.6285	0.0000	5.16E-01	6.05E+00	1570	12984	-0.00023	-0.00011	-0.000116	0.0072879	11414
1730	1.57	7.3491	7.9491	0.2387	8.6399	-101	7.6491	0.0000	5.18E-01	6.06E+00	1570	13027	-0.00023	-0.00011	-0.000117	0.0073072	11457
1735	1.57	7.3694	7.9694	0.2468	8.6735	-101	7.6694	0.0000	5.20E-01	6.08E+00	1570	13071	-0.00024	-0.00012	-0.000121	0.0073260	11501
1740	1.57	7.3897	7.9897	0.2433	8.7068	-101	7.6897	0.0000	5.22E-01	6.09E+00	1570	13115	-0.00024	-0.00012	-0.000120	0.0073449	11545
1745	1.57	7.4101	8.0101	0.2449	8.7386	-101	7.7101	0.0000	5.24E-01	6.11E+00	1570	13157	-0.00024	-0.00012	-0.000120	0.0073640	11587
1750	1.57	7.4304	8.0304	0.2440	8.7703	-101	7.7304	0.0000	5.26E-01	6.12E+00	1570	13200	-0.00024	-0.00012	-0.000120	0.0073830	11630
1755	1.57	7.4505	8.0505	0.2449	8.8023	-101	7.7505	0.0000	5.28E-01	6.14E+00	1570	13242	-0.00024	-0.00012	-0.000120	0.0074018	11672
1760	1.57	7.4708	8.0708	0.2411	8.8338	-101	7.7708	0.0000	5.30E-01	6.15E+00	1570	13284	-0.00024	-0.00012	-0.000118	0.0074208	11714
1765	1.57	7.4912	8.0912	0.2482	8.8659	-101	7.7912	0.0000	5.32E-01	6.17E+00	1570	13326	-0.00024	-0.00012	-0.000122	0.0074398	11756
1770	1.57	7.5113	8.1113	0.2548	8.8993	-101	7.8113	0.0000	5.34E-01	6.19E+00	1570	13371	-0.00025	-0.00012	-0.000125	0.0074585	11801
1775	1.57	7.5317	8.1317	0.2653	8.9324	-101	7.8317	0.0000	5.36E-01	6.20E+00	1570	13414	-0.00026	-0.00013	-0.000131	0.0074775	11844
1780	1.57	7.5520	8.1520	0.2724	8.9640	-101	7.8520	0.0000	5.38E-01	6.22E+00	1570	13456	-0.00027	-0.00013	-0.000134	0.0074965	11886
1785	1.57	7.5724	8.1724	0.2785	8.9969	-101	7.8724	0.0000	5.40E-01	6.23E+00	1570	13500	-0.00027	-0.00013	-0.000137	0.0075155	11930
1790	1.57	7.5925	8.1925	0.2847	9.0279	-101	7.8925	0.0000	5.42E-01	6.25E+00	1570	13541	-0.00028	-0.00014	-0.000140	0.0075344	11971
1795	1.57	7.6129	8.2129	0.2860	9.0589	-100	7.9129	0.0000	5.44E-01	6.26E+00	1570	13582	-0.00028	-0.00014	-0.000141	0.0075535	12012
1800	1.57	7.6335	8.2335	0.2875	9.0899	-100	7.9335	0.0000	5.45E-01	6.28E+00	1570	13623	-0.00028	-0.00014	-0.000142	0.0075728	12053
1805	1.57	7.6539	8.2539	0.2902	9.1224	-100	7.9539	0.0000	5.47E-01	6.30E+00	1570	13666	-0.00029	-0.00014	-0.000143	0.0075919	12096
1810	1.57	7.6744	8.2744	0.2935	9.1533	-100	7.9744	0.0000	5.49E-01	6.31E+00	1570	13707	-0.00029	-0.00014	-0.000145	0.0076111	12137
1815	1.57	7.6947	8.2947	0.2992	9.1841	-100	7.9947	0.0000	5.51E-01	6.33E+00	1570	13748	-0.00029	-0.00014	-0.000148	0.0076302	12178
1820	1.57	7.7152	8.3152	0.30173	9.2159	-100	8.0152	0.0000	5.53E-01	6.34E+00	1570	13790	-0.0003	-0.00015	-0.00015	0.0076494	12220
1825	1.57	7.7354	8.3354	0.3111	9.2459	-100	8.0354	0.0000	5.55E-01	6.36E+00	1570	13830	-0.00031	-0.00015	-0.000154	0.0076684	12260
1830	1.57	7.7556	8.3556	0.3166	9.2761	-100	8.0556	0.0000	5.57E-01	6.37E+00	1570	13870	-0.00031	-0.00015	-0.000156	0.0076873	12300
1835	1.57	7.7757	8.3757	0.3238	9.3065	-100	8.0757	0.0000	5.58E-01	6.39E+00	1570	13911	-0.00032	-0.00016	-0.000160	0.0077062	12341
1840	1.57	7.7963	8.3963	0.3227	9.3382	-100	8.0963	0.0000	5.60E-01	6.41E+00	1570	13953	-0.00032	-0.00016	-0.000159	0.0077255	12383
1845	1.57	7.8164	8.4164	0.3276	9.3680	-100	8.1164	0.0000	5.62E-01	6.42E+00	1570	13992	-0.00032	-0.00016	-0.000162	0.0077444	12422
1850	1.57	7.8364	8.4364	0.3333	9.3988	-100	8.1364	0.0000	5.64E-01	6.44E+00	1570	14033	-0.00033	-0.00016	-0.000165	0.0077631	12463
1855	1.57	7.8568	8.4568	0.3353	9.4287	-100	8.1568	0.0000	5.66E-01	6.45E+00	1570	14073	-0.00033	-0.00016	-0.000166	0.0077823	12503
1860	1.57	7.8771	8.4771	0.3397	9.4590	-100	8.1771	0.0000	5.68E-01	6.47E+00	1570	14113	-0.00033	-0.00016	-0.000168	0.0078014	12543
1865	1.57	7.8972	8.4972	0.3425	9.4886	-100	8.1972	0.0000	5.69E-01	6.48E+00	1570	14152	-0.00034	-0.00017	-0.000169	0.0078203	12582
1870	1.57	7.9178	8.5178	0.3454	9.5187	-100	8.2178	0.0000	5.71E-01	6.50E+00	1570	14192	-0.00034	-0.00017	-0.000171	0.0078397	12622
1875	1.57	7.9382	8.5382	0.3450	9.5483	-100	8.2382	0.0000	5.73E-01	6.52E+00	1570	14231	-0.00034	-0.00017	-0.000171	0.0078590	12661
1880	1.57	7.9583	8.5583	0.3489	9.5779	-100	8.2583	0.0000	5.75E-01	6.53E+00	1570	14270	-0.00034	-0.00017	-0.000173	0.0078779	12700
1885	1.57	7.9787	8.5787	0.3518	9.6063	-100	8.2787	0.0000	5.76E-01	6.55E+00	1570	14308	-0.00035	-0.00017	-0.000174	0.0078972	12738
1890	1.57	7.9992	8.5992	0.3560	9.6352	-100	8.2992	0.0000	5.78E-01	6.56E+00	1570	14346	-0.00035	-0.00017	-0.000176	0.0079165	12776
1895	1.57	8.0196	8.6196	0.3604	9.6622	-99	8.3196	0.0000	5.80E-01	6.58E+00	1570	14382	-0.00036	-0.00017	-0.000178	0.0079359	12812
1900	1.57	8.0398	8.6398	0.3700	9.6915	-100	8.3398	0.0000	5.81E-01	6.59E+00	1570	14421	-0.00037	-0.00018	-0.000183	0.0079550	12851
1905	1.57	8.0603	8.6603	0.3758	9.7208	-99	8.3603	0.0000	5.83E-01	6.61E+00	1570	14460	-0.00037	-0.00018	-0.000186	0.0079743	12890
1910	1.57	8.0806	8.6806	0.3806	9.7506	-100	8.3806	0.0000	5.85E-01	6.63E+00	1570	14499	-0.00038	-0.00018	-0.000188	0.0079934	12929
1915	1.57	8.1009	8.7009	0.3887	9.7793	-99	8.4009	0.0000	5.87E-01	6.64E+00	1570	14537	-0.00038	-0.00019	-0.000192	0.0080126	12967
1920	1.57	8.1209	8.7209	0.3912	9.8102	-99	8.4209	0.0000	5.89E-01	6.66E+00	1570	14578	-0.00039	-0.00019	-0.000194	0.0080313	13008
1925	1.57	8.1414	8.7414	0.3931	9.8388	-99	8.4414	0.0000	5.90E-01	6.67E+00	1570	14616	-0.00039	-0.00019	-0.000195	0.0080507	13046
1930	1.57	8.1616	8.7616	0.3960	9.8668	-99	8.4616	0.0000	5.92E-01	6.69E+00	1570	14653	-0.00039	-0.00019	-0.000196	0.0080698	13083
1935	1.57	8.1819	8.7819	0.4000	9.8947	-99	8.4819	0.0000	5.94E-01	6.70E+00	1570	14690	-0.0004	-0.00019	-0.000198	0.0080890	13120
1940	1.57	8.2024	8.8024	0.4037	9.9239	-99	8.5024	0.0000	5.95E-01	6.72E+00	1570	14729	-0.0004	-0.0002	-0.000200	0.0081084	13159
1945	1.57	8.2230	8.8230	0.4094	9.9511	-99	8.5230	0.0000	5.97E-01	6.74E+00	1570	14762	-0.0004	-0.0002	-0.000203	0.0081281	13195
1950	1.57	8.2434	8.8434	0.4169	9.9790	-99	8.5434	0.0000	5.99E-01	6.75E+00	1570	14802	-0.00041	-0.0002	-0.000207	0.0081473	13232
1955	1.57	8.2638	8.8638	0.4226	10.0072	-99	8.5638	0.0000	6.00E-01	6.77E+00	1570	14840	-0.00042	-0.00021	-0.000209	0.0081666	13270
1960	1.57	8.2841	8.8841	0.4299	10.0357	-99	8.5841	0.0000	6.02E-01	6.78E+00	1570	14877	-0.00043	-0.00021	-0.000213	0.0081858	13307
1965	1.57	8.3043	8.9043	0.4402	10.0628	-99	8.6043	0.0000	6.04E-01	6.80E+00	1570	14913	-0.00044	-0.00021	-0.000218	0.0082050	13343
1970	1.57	8.3246	8.9246	0.4446	1												

2250	1.57	9.4634	10.0634	0.8906	11.6064	-96	9.7634	0.0000	6.96E-01	7.71E+00	1570	16960	-0.00089	-0.00044	-0.000444	0.0093058	15390
2255	1.57	9.4837	10.0837	0.9053	11.6311	-96	9.7837	0.0000	6.98E-01	7.72E+00	1570	16993	-0.0009	-0.00044	-0.000452	0.0093252	15423
2260	1.57	9.5042	10.1042	0.9167	11.6536	-96	9.8042	0.0000	6.99E-01	7.74E+00	1570	17023	-0.00091	-0.00045	-0.000457	0.0093450	15453
2265	1.57	9.5246	10.1246	0.9251	11.6801	-96	9.8246	0.0000	7.01E-01	7.76E+00	1570	17058	-0.00092	-0.00045	-0.000461	0.0093644	15488
2270	1.57	9.5449	10.1449	0.9385	11.7071	-96	9.8449	0.0000	7.02E-01	7.77E+00	1570	17094	-0.00093	-0.00046	-0.000468	0.0093837	15524
2275	1.57	9.5650	10.1650	0.9621	11.7341	-96	9.8650	0.0000	7.04E-01	7.79E+00	1570	17130	-0.00096	-0.00047	-0.000480	0.0094027	15560
2280	1.57	9.5853	10.1853	0.9814	11.7612	-96	9.8853	0.0000	7.06E-01	7.80E+00	1570	17165	-0.00098	-0.00048	-0.000490	0.0094220	15595
2285	1.57	9.6056	10.2056	1.0017	11.7869	-96	9.9056	0.0000	7.07E-01	7.82E+00	1570	17200	-0.001	-0.00049	-0.000500	0.0094414	15630
2290	1.57	9.6260	10.2260	1.0245	11.8129	-96	9.9260	0.0000	7.09E-01	7.83E+00	1570	17234	-0.00102	-0.0005	-0.000511	0.0094608	15664
2295	1.57	9.6463	10.2463	1.0421	11.8387	-96	9.9463	0.0000	7.10E-01	7.85E+00	1570	17268	-0.00104	-0.00051	-0.000520	0.0094802	15698
2300	1.57	9.6670	10.2670	1.0536	11.8652	-96	9.9670	0.0000	7.12E-01	7.87E+00	1570	17303	-0.00105	-0.00052	-0.000526	0.0094999	15733
2305	1.57	9.6876	10.2876	1.0696	11.8911	-96	9.9876	0.0000	7.13E-01	7.88E+00	1570	17338	-0.00106	-0.00052	-0.000534	0.0095196	15768
2310	1.57	9.7055	10.3055	1.0853	11.9175	-96	10.0055	0.0000	7.15E-01	7.90E+00	1570	17373	-0.00108	-0.00053	-0.000542	0.0095364	15803
2315	1.57	9.7233	10.3233	1.1055	11.9433	-96	10.0233	0.0000	7.17E-01	7.91E+00	1570	17407	-0.0011	-0.00054	-0.000552	0.0095532	15837
2320	1.57	9.7414	10.3414	1.1271	11.9703	-96	10.0414	0.0000	7.18E-01	7.92E+00	1570	17443	-0.00112	-0.00055	-0.000563	0.0095702	15873
2325	1.57	9.7591	10.3591	1.1506	11.9956	-96	10.0591	0.0000	7.20E-01	7.94E+00	1570	17476	-0.00115	-0.00056	-0.000575	0.0095869	15906
2330	1.57	9.7944	10.3568	1.1656	12.0209	-96	10.0756	0.0000	7.21E-01	7.95E+00	1570	17510	-0.00116	-0.00057	-0.000582	0.0096024	15940
2335	1.57	9.8143	10.3777	1.1785	12.0463	-96	10.0960	0.0000	7.23E-01	7.97E+00	1570	17544	-0.00117	-0.00058	-0.000589	0.0096218	15974
2340	1.57	9.8347	10.3977	1.1915	12.0723	-96	10.1162	0.0000	7.24E-01	7.98E+00	1570	17578	-0.00119	-0.00058	-0.000595	0.0096411	16008
2345	1.57	9.8545	10.4189	1.2025	12.0969	-96	10.1367	0.0000	7.26E-01	8.00E+00	1570	17611	-0.0012	-0.00059	-0.000601	0.0096607	16041
2350	1.57	9.8741	10.4405	1.2155	12.1218	-96	10.1573	0.0000	7.27E-01	8.02E+00	1570	17644	-0.00121	-0.00059	-0.000607	0.0096804	16074
2355	1.57	9.8940	10.4614	1.2364	12.1464	-96	10.1777	0.0000	7.29E-01	8.03E+00	1570	17676	-0.00123	-0.00061	-0.000618	0.0097000	16106
2360	1.57	9.9143	10.4815	1.2485	12.1690	-96	10.1979	0.0000	7.30E-01	8.05E+00	1570	17706	-0.00124	-0.00061	-0.000624	0.0097194	16136
2365	1.57	9.9345	10.5021	1.2630	12.1934	-96	10.2183	0.0000	7.32E-01	8.06E+00	1570	17739	-0.00126	-0.00062	-0.000631	0.0097390	16169
2370	1.57	9.9544	10.5228	1.2817	12.2278	-96	10.2386	0.0000	7.34E-01	8.08E+00	1570	17784	-0.00128	-0.00063	-0.000640	0.0097578	16214
2375	1.57	9.9748	10.5428	1.2993	12.2593	-96	10.2588	0.0000	7.36E-01	8.09E+00	1570	17826	-0.00129	-0.00064	-0.000649	0.0097767	16256
2380	1.57	9.9945	10.5639	1.3125	12.2914	-96	10.2792	0.0000	7.37E-01	8.11E+00	1570	17869	-0.00131	-0.00064	-0.000656	0.0097958	16299
2385	1.57	10.0148	10.5842	1.3321	12.3230	-96	10.2995	0.0000	7.39E-01	8.13E+00	1570	17910	-0.00133	-0.00065	-0.000666	0.0098147	16340
2390	1.57	10.0347	10.6053	1.3460	12.3551	-96	10.3200	0.0000	7.41E-01	8.14E+00	1570	17953	-0.00134	-0.00066	-0.000672	0.0098339	16383
2395	1.57	10.0549	10.6257	1.3640	12.3855	-96	10.3403	0.0000	7.43E-01	8.16E+00	1570	17993	-0.00136	-0.00067	-0.000682	0.0098530	16423
2400	1.57	10.0748	10.6464	1.3803	12.4171	-96	10.3606	0.0000	7.45E-01	8.17E+00	1570	18035	-0.00138	-0.00068	-0.000690	0.0098720	16465
2405	1.57	10.0953	10.6665	1.4005	12.4479	-96	10.3809	0.0000	7.47E-01	8.19E+00	1570	18076	-0.0014	-0.00069	-0.000700	0.0098910	16506
2410	1.57	10.1148	10.6878	1.4212	12.4784	-96	10.4013	0.0000	7.49E-01	8.20E+00	1570	18116	-0.00142	-0.0007	-0.000710	0.0099102	16546
2415	1.57	10.1352	10.7082	1.4447	12.5082	-96	10.4217	0.0000	7.50E-01	8.22E+00	1570	18156	-0.00144	-0.00071	-0.000722	0.0099294	16586
2420	1.57	10.1558	10.7276	1.4650	12.5373	-96	10.4417	0.0000	7.52E-01	8.24E+00	1570	18195	-0.00146	-0.00072	-0.000732	0.0099483	16625
2425	1.57	10.1762	10.7474	1.4835	12.5666	-95	10.4618	0.0000	7.54E-01	8.25E+00	1570	18233	-0.00148	-0.00073	-0.000741	0.0099672	16663
2430	1.57	10.1966	10.7672	1.5022	12.5953	-95	10.4819	0.0000	7.56E-01	8.27E+00	1570	18271	-0.0015	-0.00074	-0.000751	0.0099862	16701
2435	1.57	10.2170	10.7876	1.5169	12.6234	-95	10.5023	0.0000	7.57E-01	8.28E+00	1570	18309	-0.00151	-0.00074	-0.000758	0.0100055	16739
2440	1.57	10.2369	10.8083	1.5336	12.6513	-95	10.5226	0.0000	7.59E-01	8.30E+00	1570	18346	-0.00153	-0.00075	-0.000767	0.0100247	16776
2445	1.57	10.2566	10.8296	1.5517	12.6799	-95	10.5431	0.0000	7.61E-01	8.31E+00	1570	18384	-0.00155	-0.00076	-0.000776	0.0100441	16814
2450	1.57	10.2764	10.8508	1.5675	12.7067	-95	10.5636	0.0000	7.62E-01	8.33E+00	1570	18419	-0.00156	-0.00077	-0.000784	0.0100636	16849
2455	1.57	10.2960	10.8724	1.5860	12.7342	-95	10.5842	0.0000	7.64E-01	8.35E+00	1570	18456	-0.00158	-0.00078	-0.000793	0.0100831	16886
2460	1.57	10.3162	10.8926	1.6060	12.7611	-95	10.6044	0.0000	7.66E-01	8.36E+00	1570	18491	-0.0016	-0.00079	-0.000803	0.0101023	16921
2465	1.57	10.3369	10.9141	1.6304	12.7868	-95	10.6250	0.0000	7.67E-01	8.38E+00	1570	18525	-0.00163	-0.0008	-0.000815	0.0101210	16955
2470	1.57	10.3564	10.9356	1.6476	12.8130	-95	10.6455	0.0000	7.69E-01	8.40E+00	1570	18560	-0.00164	-0.00081	-0.000824	0.0101415	16990
2475	1.57	10.3756	10.9562	1.6749	12.8391	-95	10.6659	0.0000	7.70E-01	8.41E+00	1570	18595	-0.00167	-0.00082	-0.000837	0.0101610	17025
2480	1.57	10.3960	10.9762	1.6997	12.8659	-95	10.6861	0.0000	7.72E-01	8.43E+00	1570	18630	-0.00169	-0.00083	-0.000850	0.0101802	17060
2485	1.57	10.4163	10.9963	1.7224	12.8921	-95	10.7063	0.0000	7.74E-01	8.44E+00	1570	18665	-0.00172	-0.00084	-0.000861	0.0101994	17095
2490	1.57	10.4369	11.0159	1.7384	12.9182	-95	10.7264	0.0000	7.75E-01	8.46E+00	1570	18700	-0.00173	-0.00085	-0.000869	0.0102185	17130
2495	1.57	10.4574	11.0358	1.7646	12.9430	-95	10.7466	0.0000	7.77E-01	8.47E+00	1570	18733	-0.00176	-0.00086	-0.000882	0.0102378	17163
2500	1.57	10.4775	11.0559	1.7818	12.9684	-95	10.7667	0.0000	7.78E-01	8.49E+00	1570	18766	-0.00178	-0.00087	-0.000891	0.0102570	17196
2505	1.57	10.4977	11.0765	1.8036	12.9923	-95	10.7871	0.0000	7.80E-01	8.51E+00	1570	18798	-0.0018	-0.00088	-0.000902	0.0102766	17228
2510	1.57	10.5176	11.0974	1.8326	13.0172	-95	10.8075	0.0000	7.81E-01	8.52E+00	1570	18831	-0.00183	-0.0009	-0.000916	0.0102961	17261
2515	1.57	10.5379	11.1175	1.8641	13.0418	-95	10.8277	0.0000	7.83E-01	8.54E+00	1570	18864	-0.00186	-0.00091	-0.000932	0.0103154	17294
2520	1.57	10.5580	11.1382	1.8911	13.0671	-95	10.8481	0.0000	7.84E-01	8.55E+00	1570	18897	-0.00189	-0.00093	-0.000946	0.0103349	17327
2525	1.57	10.5779	11.1591	1.9228	13.0919	-95	10.8685	0.0000	7.86E-01	8.57E+00	1570	18930	-0.00192	-0.00094	-0.000962	0.0103544	17360
2530	1.57	10.5978	11.1798	1.9461	13.1164	-95	10.8888	0.0000	7.87E-01	8.58E+00	1570	18962	-0.00194	-0.00095	-0.000973	0.0103739	17392
2535	1.57	10.6176	11.2010	1.9723	13.1398	-95	10.9093	0.0000	7.88E-01	8.60E+00	1570	18993	-0.00197	-0.00097	-0.000987	0.0103936	17423
2540	1.57	10.6373	11.2225	1.9980	13.1638	-94	10.9299	0.0000	7.90E-01	8.62E+00	1570	19025	-0.00199	-0.00098	-0.000999	0.0104134	17455
2545	1.57	10.6576	11.2426	2.0207	13.1866	-94	10.9501	0.0000	7.91E-01	8.64E+00	1570	19056	-0.00202	-0.00099	-0.001011	0.0104328	17486
2550	1.57	10.6775	11.2635	2													

2835	1.57	11.8231	12.4353	4.1844	13.7641	-93	12.1292	0.0000	8.26E-01	9.61E+00	1570	19821	-0.00418	-0.00205	-0.002096	0.0116141	18251
2840	1.57	11.8432	12.4558	4.2486	13.7380	-92	12.1495	0.0000	8.24E-01	9.63E+00	1570	19787	-0.00424	-0.00209	-0.002128	0.0116366	18217
2845	1.57	11.8638	12.4752	4.3085	13.7150	-92	12.1695	0.0000	8.23E-01	9.64E+00	1570	19756	-0.0043	-0.00211	-0.002158	0.0116587	18186
2850	1.57	11.8836	12.4964	4.3589	13.6929	-92	12.1900	0.0000	8.22E-01	9.66E+00	1570	19727	-0.00435	-0.00214	-0.002183	0.0116812	18157
2855	1.57	11.9037	12.5169	4.4189	13.6708	-92	12.2103	0.0000	8.20E-01	9.68E+00	1570	19698	-0.00441	-0.00217	-0.002213	0.0117036	18128
2860	1.57	11.9237	12.5377	4.4689	13.6503	-92	12.2307	0.0000	8.19E-01	9.70E+00	1570	19670	-0.00446	-0.00219	-0.002238	0.0117259	18100

Test Type
Company

Triaxial
Apache Corporation

diameter sample =
Length of the sample =
Initial Chord Length =
Sin(Theta/2) =
Theta =
Thickness of rubber
Confining Pressure
Pore Pressure

0.9799 inch
0.8235 inch
1.3830 inch
0.877 unitless
2.139 radians
0.0185 inches
1570 psi
0 psi

mass sat
mass dry
Test #
Depth-ft
Well
Density
Job #
Swi

25.92
388
5039.7
University Lands 57-65 #1H
2.55
121499
As Received

Plunger Diameter 2.0 in

For Triaxial Test						
Young (Mpsi)	Poisson's Ratio	Confining Press (psi)	Deviatory Press (psi)	A S Rate (Strain/sec)	Rate 2 (psi/min)	Sigma 1 psi
1.763	0.10	0	3500	3.92E-06	367	6489
1.773	0.20	785	8900	4.13E-06	475	12002
1.809	0.26	1570	14000	4.01E-06	245	20037

sec	Cell Press ksi	LVDT 1 mil	LVDT 2 mil	LVDT3 mil	Axial Load kip	Frame Def mil	Average Axial Def. mil	Pore Pressure ksi	System def corr. mil	TRUE Axial Def mil	Confining Stress psi	Axial Stress psi	Radial Deform in	True Radial Deform in	Radial Strain (in/in)	Axial Strain (in/in)	Deviatory Stress (psi)
0	0	0.1000	0.0027	0.0048	0.0000	-135	0.0514	0.0000	0.00E+00	4.37E-02	0	0	0	0	0.000000	0.000000	0
5	0	0.1359	0.0054	0.0044	0.0162	-135	0.0707	0.0000	9.72E-04	5.92E-02	0	21	4E-07	1.97E-07	0.000000	0.0000189	21
10	0	0.1731	0.0081	0.0065	0.0307	-135	0.0906	0.0000	1.84E-03	7.55E-02	0	41	-1.7E-06	-8.4E-07	-0.000001	0.0000386	41
15	0	0.2152	0.0054	0.0076	0.0461	-134	0.1103	0.0000	2.76E-03	9.14E-02	0	61	-2.8E-06	-1.4E-06	-0.000001	0.0000580	61
20	0	0.2535	0.0081	0.0083	0.0606	-134	0.1308	0.0000	3.63E-03	1.08E-01	0	80	-3.5E-06	-1.7E-06	-0.000002	0.0000783	80
25	0	0.3006	0.0027	0.0081	0.0751	-134	0.1517	0.0000	4.50E-03	1.25E-01	0	100	-3.3E-06	-1.6E-06	-0.000002	0.0000989	100
30	0	0.3408	0.0054	0.0105	0.0896	-134	0.1731	0.0000	5.37E-03	1.43E-01	0	119	-5.7E-06	-2.8E-06	-0.000003	0.0001201	119
35	0	0.3813	0.0054	0.0086	0.1041	-134	0.1933	0.0000	6.24E-03	1.59E-01	0	138	-3.8E-06	-1.9E-06	-0.000002	0.0001401	138
40	0	0.4193	0.0108	0.0095	0.1177	-134	0.2150	0.0000	7.06E-03	1.77E-01	0	156	-4.7E-06	-2.3E-06	-0.000002	0.0001617	156
45	0	0.4564	0.0135	0.0085	0.1339	-134	0.2350	0.0000	8.03E-03	1.93E-01	0	178	-3.7E-06	-1.8E-06	-0.000002	0.0001812	178
50	0	0.4983	0.0108	0.0088	0.1501	-134	0.2545	0.0000	9.01E-03	2.09E-01	0	199	-4E-06	-2E-06	-0.000002	0.0002004	199
55	0	0.5432	0.0081	0.0081	0.1655	-134	0.2756	0.0000	9.93E-03	2.26E-01	0	219	-3.3E-06	-1.6E-06	-0.000002	0.0002213	219
60	0	0.5785	0.0162	0.0098	0.1817	-134	0.2973	0.0000	1.08E-02	2.43E-01	0	241	-5E-06	-2.5E-06	-0.000003	0.0002426	241
65	0	0.6221	0.0135	0.0112	0.1945	-134	0.3178	0.0000	1.17E-02	2.60E-01	0	258	-6.4E-06	-3.1E-06	-0.000003	0.0002630	258
70	0	0.6628	0.0162	0.0130	0.2081	-134	0.3395	0.0000	1.25E-02	2.78E-01	0	276	-8.2E-06	-4E-06	-0.000004	0.0002845	276
75	0	0.7027	0.0189	0.0149	0.2218	-134	0.3608	0.0000	1.33E-02	2.95E-01	0	294	-1E-05	-5E-06	-0.000005	0.0003057	294
80	0	0.7424	0.0189	0.0159	0.2363	-134	0.3807	0.0000	1.42E-02	3.12E-01	0	313	-1.1E-05	-5.5E-06	-0.000006	0.0003253	313
85	0	0.7778	0.0243	0.0171	0.2533	-134	0.4011	0.0000	1.52E-02	3.28E-01	0	336	-1.2E-05	-6E-06	-0.000006	0.0003453	336
90	0	0.8174	0.0243	0.0179	0.2721	-134	0.4209	0.0000	1.63E-02	3.44E-01	0	361	-1.3E-05	-6.4E-06	-0.000007	0.0003645	361
95	0	0.8528	0.0297	0.0190	0.2900	-133	0.4413	0.0000	1.74E-02	3.60E-01	0	385	-1.4E-05	-7E-06	-0.000007	0.0003845	385
100	0	0.9003	0.0243	0.0197	0.3079	-133	0.4623	0.0000	1.85E-02	3.77E-01	0	408	-1.5E-05	-7.3E-06	-0.000007	0.0004051	408
105	0	0.9368	0.0297	0.0206	0.3267	-133	0.4833	0.0000	1.96E-02	3.94E-01	0	433	-1.6E-05	-7.8E-06	-0.000008	0.0004256	433
110	0	0.9761	0.0323	0.0220	0.3429	-133	0.5042	0.0000	2.06E-02	4.11E-01	0	455	-1.7E-05	-8.5E-06	-0.000009	0.0004462	455
115	0	1.0166	0.0350	0.0239	0.3608	-133	0.5258	0.0000	2.16E-02	4.29E-01	0	478	-1.9E-05	-9.4E-06	-0.000010	0.0004674	478
120	0	1.0524	0.0404	0.0238	0.3813	-133	0.5464	0.0000	2.29E-02	4.45E-01	0	506	-1.9E-05	-9.3E-06	-0.000010	0.0004874	506
125	0	1.0932	0.0404	0.0247	0.4017	-133	0.5668	0.0000	2.41E-02	4.61E-01	0	533	-2E-05	-9.8E-06	-0.000010	0.0005071	533
130	0	1.1289	0.0458	0.0263	0.4222	-133	0.5874	0.0000	2.53E-02	4.78E-01	0	560	-2.2E-05	-1.1E-05	-0.000011	0.0005271	560
135	0	1.1681	0.0485	0.0251	0.4410	-133	0.6083	0.0000	2.65E-02	4.95E-01	0	585	-2E-05	-1E-05	-0.000010	0.0005476	585
140	0	1.2052	0.0512	0.0248	0.4614	-133	0.6282	0.0000	2.77E-02	5.10E-01	0	612	-0.00002	-9.8E-06	-0.000010	0.0005688	612
145	0	1.2315	0.0674	0.0269	0.4785	-133	0.6494	0.0000	2.87E-02	5.28E-01	0	634	-2.2E-05	-1.1E-05	-0.000011	0.0005877	634
150	0	1.2672	0.0728	0.0272	0.4956	-133	0.6700	0.0000	2.97E-02	5.44E-01	0	657	-2.2E-05	-1.1E-05	-0.000011	0.0006079	657
155	0	1.2884	0.0917	0.0291	0.5126	-133	0.6901	0.0000	3.08E-02	5.60E-01	0	680	-2.4E-05	-1.2E-05	-0.000012	0.0006275	680
160	0	1.3209	0.0997	0.0303	0.5305	-132	0.7103	0.0000	3.18E-02	5.77E-01	0	704	-2.6E-05	-1.3E-05	-0.000013	0.0006473	704
165	0	1.3320	0.1294	0.0324	0.5502	-132	0.7307	0.0000	3.30E-02	5.93E-01	0	730	-2.8E-05	-1.4E-05	-0.000014	0.0006671	730
170	0	1.3563	0.1456	0.0321	0.5698	-132	0.7509	0.0000	3.42E-02	6.09E-01	0	756	-2.7E-05	-1.3E-05	-0.000014	0.0006868	756
175	0	1.3817	0.1617	0.0326	0.5894	-132	0.7717	0.0000	3.54E-02	6.26E-01	0	782	-2.8E-05	-1.4E-05	-0.000014	0.0007070	782
180	0	1.3999	0.1860	0.0324	0.6090	-132	0.7929	0.0000	3.65E-02	6.43E-01	0	808	-2.8E-05	-1.4E-05	-0.000014	0.0007277	808
185	0	1.4246	0.2022	0.0334	0.6295	-132	0.8134	0.0000	3.78E-02	6.59E-01	0	835	-2.9E-05	-1.4E-05	-0.000014	0.0007476	835
190	0	1.4439	0.2237	0.0340	0.6474	-132	0.8338	0.0000	3.88E-02	6.76E-01	0	858	-2.9E-05	-1.4E-05	-0.000015	0.0007675	858
195	0	1.4598	0.2480	0.0367	0.6662	-132	0.8539	0.0000	4.00E-02	6.92E-01	0	883	-3.2E-05	-1.6E-05	-0.000016	0.0007871	883
200	0	1.4779	0.2695	0.0381	0.6841	-132	0.8737	0.0000	4.10E-02	7.08E-01	0	907	-3.3E-05	-1.6E-05	-0.000017	0.0008064	907
205	0	1.5018	0.2857	0.0393	0.7028	-132	0.8938	0.0000	4.22E-02	7.24E-01	0	932	-3.5E-05	-1.7E-05	-0.000017	0.0008260	932
210	0	1.5236	0.3046	0.0412	0.7216	-132	0.9141	0.0000	4.33E-02	7.40E-01	0	957	-3.6E-05	-1.8E-05	-0.000018	0.0008458	957
215	0	1.5446	0.3261	0.0415	0.7395	-132	0.9354	0.0000	4.44E-02	7.57E-01	0	981	-3.7E-05	-1.8E-05	-0.000018	0.0008666	981
220	0	1.5666	0.3477	0.0414	0.7583	-132	0.9572	0.0000	4.55E-02	7.75E-01	0	1005	-3.7E-05	-1.8E-05	-0.000018	0.0008880	1005
225	0	1.5843	0.3719	0.0415	0.7779	-132	0.9781	0.0000	4.67E-02	7.92E-01	0	1031	-3.7E-05	-1.8E-05	-0.000018	0.0009084	1031
230	0	1.6068	0.3908	0.0412	0.7975	-132	0.9988	0.0000	4.79E-02	8.08E-01	0	1057	-3.6E-05	-1.8E-05	-0.000018	0.0009286	1057
235	0	1.6271	0.4124	0.0422	0.8171	-131	1.0198	0.0000	4.90E-02	8.25E-01	0	1084	-3.7E-05	-1.8E-05	-0.000019	0.0009490	1084
240	0	1.6417	0.4393	0.0429	0.8376	-131	1.0405	0.0000	5.03E-02	8.42E-01	0	1111	-3.8E-05	-1.9E-05	-0.000019	0.0009691	1111
245	0	1.6655	0.4555	0.0445	0.8572	-131	1.0605	0.0000	5.14E-02	8.58E-01	0	1137	-4E-05	-2E-05	-0.000020	0.0009885	1137
250	0	1.6867	0.4743	0.0464	0.8777	-131	1.0805	0.0000	5.27E-02	8.74E-01	0	1164	-4.2E-05	-2E-05	-0.000021	0.0010079	1164
255	0	1.7037	0.4986	0.0483	0.8964	-131	1.1011	0.0000	5.39E-02	8.90E-01	0	1189	-4.4E-05	-2.1E-05	-0.000022	0.0010280	1189
260	0	1.7162	0.5282	0.0506	0.9189	-131	1.1222	0.0000	5.50E-02	9.07E-01	0	1216	-4.6E-05	-2.2E-05	-0.000023	0.0010485	1216
265	0	1.7396	0.5444	0.0522	0.9382	-131	1.1420	0.0000	5.63E-02	9.23E-01	0	1244	-4.7E-05	-2.3E-05	-0.000024	0.0010676	1244
270	0	1.7640	0.5605	0.0529	0.9596	-131	1.1623	0.0000	5.76E-02	9.39E-01	0	1272	-4.8E-05	-2.4E-05	-0.000024	0.0010872	1272
275	0	1.7853	0.5821	0.0548	0.9792	-131	1.1837	0.0000	5.88E-02	9.56E-01	0	1298	-0.00005	-2.5E-05	-0.000025	0.0011081	1298
280	0	1.7944	0.6144	0.0571	1.0014	-131	1.2044	0.0000	6.01E-02	9.73E-01	0	1328	-5.2E-05	-2.6E-05	-0.000026	0.0011281	1328
285	0	1.8175	0.6306	0.0565	1.0227	-131	1.2241	0.0000	6.14E-02	9.88E-01	0	1356	-5.2E-05	-2.5E-05	-0.000026	0.0011471	1356
290	0																

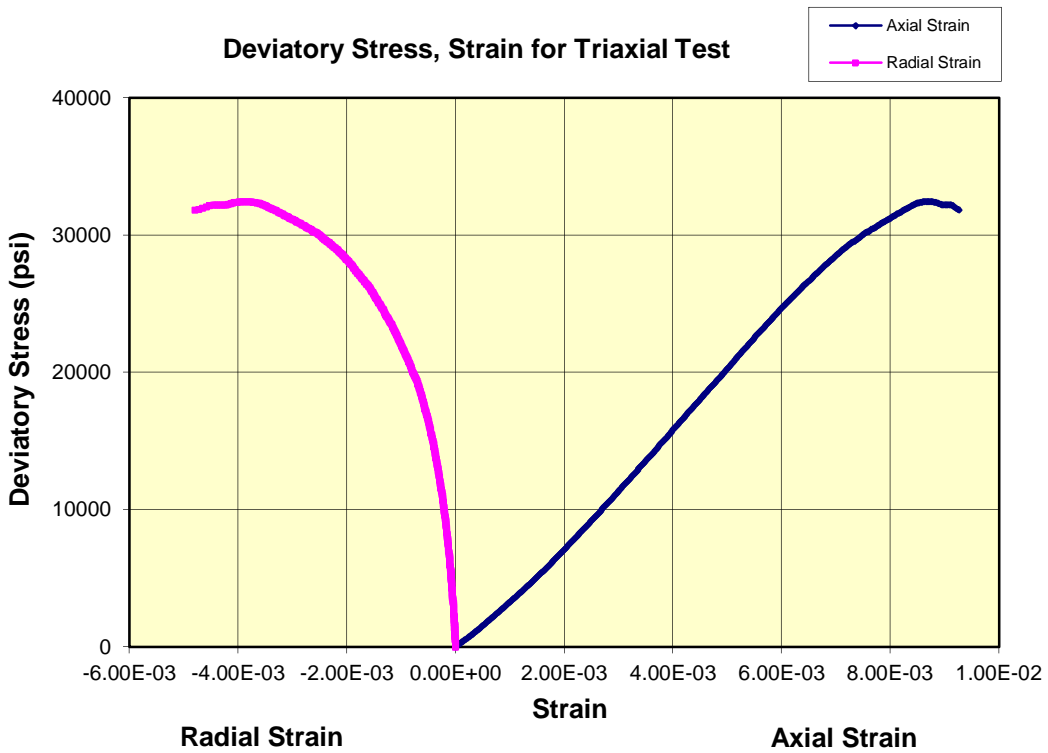
495	0	2.5832	1.5972	0.1231	1.9875	-128	2.0902	0.0000	1.19E-01	1.68E+00	0	2635	-0.00012	-5.8E-05	-0.000059	0.0019814	2635
500	0	2.6146	1.6080	0.1240	2.0140	-128	2.1113	0.0000	1.21E-01	1.69E+00	0	2671	-0.00012	-5.9E-05	-0.000060	0.0020015	2671
505	0	2.6256	1.6376	0.1256	2.0421	-128	2.1316	0.0000	1.23E-01	1.71E+00	0	2708	-0.00012	-5.9E-05	-0.000061	0.0020207	2708
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515	0	2.6646	1.6806	0.1308	2.0924	-128	2.1726	0.0000	1.26E-01	1.74E+00	0	2775	-0.00013	-6.2E-05	-0.000063	0.0020599	2775
520	0	2.6716	1.7129	0.1323	2.1163	-128	2.1923	0.0000	1.27E-01	1.76E+00	0	2806	-0.00013	-6.3E-05	-0.000064	0.0020787	2806
525	0	2.6959	1.7291	0.1346	2.1394	-128	2.2125	0.0000	1.28E-01	1.77E+00	0	2837	-0.00013	-6.4E-05	-0.000065	0.0020982	2837
530	0	2.7131	1.7533	0.1374	2.1650	-128	2.2332	0.0000	1.30E-01	1.79E+00	0	2871	-0.00013	-6.5E-05	-0.000066	0.0021180	2871
535	0	2.7297	1.7775	0.1399	2.1888	-128	2.2536	0.0000	1.31E-01	1.80E+00	0	2902	-0.00014	-6.6E-05	-0.000068	0.0021376	2902
540	0	2.7462	1.8017	0.1439	2.2136	-128	2.2740	0.0000	1.33E-01	1.82E+00	0	2935	-0.00014	-6.8E-05	-0.000070	0.0021570	2935
545	0	2.7661	1.8233	0.1458	2.2383	-128	2.2947	0.0000	1.34E-01	1.84E+00	0	2968	-0.00014	-6.9E-05	-0.000071	0.0021769	2968
550	0	2.7820	1.8475	0.1495	2.2631	-128	2.3148	0.0000	1.36E-01	1.85E+00	0	3001	-0.00014	-7.1E-05	-0.000073	0.0021961	3001
555	0	2.8019	1.8690	0.1523	2.2887	-127	2.3355	0.0000	1.37E-01	1.87E+00	0	3035	-0.00015	-7.2E-05	-0.000074	0.0022159	3035
560	0	2.8163	1.8959	0.1539	2.3160	-127	2.3561	0.0000	1.39E-01	1.88E+00	0	3071	-0.00015	-7.3E-05	-0.000075	0.0022355	3071
565	0	2.8360	1.9174	0.1565	2.3364	-127	2.3767	0.0000	1.40E-01	1.90E+00	0	3098	-0.00015	-7.5E-05	-0.000076	0.0022555	3098
570	0	2.8544	1.9416	0.1617	2.3603	-127	2.3980	0.0000	1.42E-01	1.92E+00	0	3130	-0.00016	-7.7E-05	-0.000079	0.0022760	3130
575	0	2.8722	1.9659	0.1660	2.3825	-127	2.4191	0.0000	1.43E-01	1.93E+00	0	3159	-0.00016	-7.9E-05	-0.000081	0.0022963	3159
580	0	2.8893	1.9901	0.1702	2.4047	-127	2.4397	0.0000	1.44E-01	1.95E+00	0	3189	-0.00017	-8.1E-05	-0.000083	0.0023163	3189
585	0	2.9181	2.0035	0.1745	2.4269	-127	2.4608	0.0000	1.46E-01	1.97E+00	0	3218	-0.00017	-8.3E-05	-0.000085	0.0023367	3218
590	0	2.9372	2.0250	0.1777	2.4533	-127	2.4811	0.0000	1.47E-01	1.98E+00	0	3253	-0.00017	-8.5E-05	-0.000087	0.0023560	3253
595	0	2.9581	2.0439	0.1801	2.4772	-127	2.5010	0.0000	1.49E-01	2.00E+00	0	3285	-0.00018	-8.6E-05	-0.000088	0.0023751	3285
600	0	2.9715	2.0708	0.1828	2.5036	-127	2.5212	0.0000	1.50E-01	2.02E+00	0	3320	-0.00018	-8.7E-05	-0.000089	0.0023942	3320
605	0	2.9907	2.0923	0.1856	2.5292	-127	2.5415	0.0000	1.52E-01	2.03E+00	0	3354	-0.00018	-8.9E-05	-0.000091	0.0024136	3354
610	0	3.0158	2.1084	0.1903	2.5540	-127	2.5621	0.0000	1.53E-01	2.05E+00	0	3387	-0.00019	-9.1E-05	-0.000093	0.0024334	3387
615	0	3.0301	2.1353	0.1955	2.5847	-127	2.5827	0.0000	1.55E-01	2.06E+00	0	3427	-0.00019	-9.4E-05	-0.000096	0.0024527	3427
620	0	3.0499	2.1569	0.2000	2.6154	-127	2.6034	0.0000	1.57E-01	2.08E+00	0	3468	-0.0002	-9.6E-05	-0.000098	0.0024722	3468
625	0	3.0739	2.1757	0.2024	2.6393	-127	2.6248	0.0000	1.58E-01	2.10E+00	0	3500	-0.0002	-9.7E-05	-0.000099	0.0024928	3500
630	0	3.0908	2.1999	0.2060	2.6649	-126	2.6454	0.0000	1.60E-01	2.11E+00	0	3534	-0.0002	-9.9E-05	-0.000101	0.0025124	3534
635	0	3.0990	2.2322	0.2100	2.6905	-126	2.6656	0.0000	1.61E-01	2.13E+00	0	3568	-0.00021	-0.0001	-0.000103	0.0025317	3568
640	0	3.1197	2.2537	0.2124	2.7127	-126	2.6867	0.0000	1.63E-01	2.15E+00	0	3597	-0.00021	-0.0001	-0.000104	0.0025521	3597
645	0	3.1424	2.2725	0.2164	2.7349	-126	2.7075	0.0000	1.64E-01	2.16E+00	0	3626	-0.00021	-0.0001	-0.000106	0.0025722	3626
650	0	3.1697	2.2860	0.2232	2.7639	-126	2.7279	0.0000	1.65E-01	2.18E+00	0	3665	-0.00022	-0.00011	-0.000110	0.0025915	3665
655	0	3.1877	2.3102	0.2273	2.7912	-126	2.7489	0.0000	1.67E-01	2.19E+00	0	3701	-0.00022	-0.00011	-0.000112	0.0026115	3701
660	0	3.2062	2.3317	0.2315	2.8202	-126	2.7690	0.0000	1.69E-01	2.21E+00	0	3740	-0.00023	-0.00011	-0.000114	0.0026304	3740
665	0	3.2253	2.3532	0.2375	2.8475	-126	2.7892	0.0000	1.71E-01	2.23E+00	0	3776	-0.00023	-0.00011	-0.000117	0.0026496	3776
670	0	3.2449	2.3747	0.2428	2.8748	-126	2.8098	0.0000	1.72E-01	2.24E+00	0	3812	-0.00024	-0.00012	-0.000119	0.0026692	3812
675	0	3.2583	2.4016	0.2465	2.9012	-126	2.8300	0.0000	1.74E-01	2.26E+00	0	3847	-0.00024	-0.00012	-0.000121	0.0026883	3847
680	0	3.2859	2.4151	0.2524	2.9277	-126	2.8505	0.0000	1.76E-01	2.27E+00	0	3882	-0.00025	-0.00012	-0.000124	0.0027079	3882
685	0	3.3051	2.4393	0.2566	2.9524	-126	2.8722	0.0000	1.77E-01	2.29E+00	0	3915	-0.00025	-0.00012	-0.000126	0.0027288	3915
690	0	3.3232	2.4635	0.2621	2.9780	-126	2.8934	0.0000	1.79E-01	2.31E+00	0	3949	-0.00026	-0.00013	-0.000129	0.0027490	3949
695	0	3.3397	2.4877	0.2671	3.0045	-126	2.9137	0.0000	1.80E-01	2.32E+00	0	3984	-0.00026	-0.00013	-0.000132	0.0027684	3984
700	0	3.3571	2.5119	0.2732	3.0301	-126	2.9345	0.0000	1.82E-01	2.34E+00	0	4018	-0.00027	-0.00013	-0.000135	0.0027882	4018
705	0	3.3753	2.5334	0.2791	3.0565	-126	2.9543	0.0000	1.83E-01	2.36E+00	0	4053	-0.00027	-0.00013	-0.000138	0.0028071	4053
710	0	3.3957	2.5522	0.2856	3.0829	-126	2.9739	0.0000	1.85E-01	2.37E+00	0	4088	-0.00028	-0.00014	-0.000141	0.0028267	4088
715	0	3.4192	2.5684	0.2910	3.1085	-126	2.9938	0.0000	1.87E-01	2.39E+00	0	4122	-0.00029	-0.00014	-0.000144	0.0028466	4122
720	0	3.4416	2.5872	0.2966	3.1341	-125	3.0144	0.0000	1.88E-01	2.40E+00	0	4156	-0.00029	-0.00014	-0.000146	0.0028663	4156
725	0	3.4619	2.6087	0.3021	3.1606	-125	3.0353	0.0000	1.90E-01	2.42E+00	0	4191	-0.0003	-0.00015	-0.000149	0.0028842	4191
730	0	3.4861	2.6275	0.3068	3.1870	-125	3.0568	0.0000	1.91E-01	2.44E+00	0	4226	-0.0003	-0.00015	-0.000151	0.0029048	4226
735	0	3.5056	2.6491	0.3121	3.2109	-125	3.0773	0.0000	1.93E-01	2.45E+00	0	4258	-0.00031	-0.00015	-0.000154	0.0029245	4258
740	0	3.5205	2.6759	0.3179	3.2382	-125	3.0982	0.0000	1.94E-01	2.47E+00	0	4294	-0.00031	-0.00015	-0.000157	0.0029444	4294
745	0	3.5403	2.6975	0.3229	3.2638	-125	3.1189	0.0000	1.96E-01	2.48E+00	0	4328	-0.00032	-0.00016	-0.000160	0.0029641	4328
750	0	3.5606	2.7190	0.3285	3.2911	-125	3.1398	0.0000	1.97E-01	2.50E+00	0	4364	-0.00032	-0.00016	-0.000162	0.0029840	4364
755	0	3.5828	2.7378	0.3345	3.3184	-125	3.1603	0.0000	1.99E-01	2.52E+00	0	4400	-0.00033	-0.00016	-0.000165	0.0030035	4400
760	0	3.6020	2.7593	0.3416	3.3474	-125	3.1807	0.0000	2.01E-01	2.53E+00	0	4439	-0.00034	-0.00017	-0.000169	0.0030227	4439
765	0	3.6211	2.7808	0.3463	3.3730	-125	3.2010	0.0000	2.02E-01	2.55E+00	0	4473	-0.00034	-0.00017	-0.000171	0.0030421	4473
770	0	3.6345	2.8077	0.3538	3.4037	-125	3.2211	0.0000	2.04E-01	2.56E+00	0	4513	-0.00035	-0.00017	-0.000175	0.0030609	4513
775	0	3.6517	2.8319	0.3610	3.4319	-125	3.2418	0.0000	2.05E-01	2.58E+00	0	4551	-0.00036	-0.00018	-0.000178	0.0030803	4551
780	0	3.6679	2.8561	0.3672	3.4600	-125	3.2620	0.0000	2.08E-01	2.60E+00	0	4588	-0.00036	-0.00018	-0.000182	0.0030997	4588
785	0	3.6857	2.8803	0.3719	3.4890	-125	3.2830	0.0000	2.09E-01	2.61E+00	0	4626	-0.00037	-0.00018	-0.000184	0.0031195	4626
790	0	3.6993	2.9099	0.3799	3.5181	-125	3.3046	0.0000	2.11E-01	2.63E+00	0	4665	-0.00038	-0.00018	-0.000188	0.0031391	4665
795	0	3.7116	2.9394	0.3849	3.5428	-125	3.3255	0.0000	2.13E-01	2.65E+00	0	4698	-0.00038	-0.00019	-0.000191	0.0031601	4698
800	0	3.7334	2.9583	0.3913	3.5693	-124	3.3458	0.0000	2.14E-01	2.66E+00	0	4733	-0.00039	-0.00019	-0.000194	0.0031794	4733
805	0	3.7553	2.9771	0.3990	3.5949	-124	3.3662	0.0000	2.16E-01	2.68E+00	0	4767	-0.00039	-0.00019	-0.000198	0.0031989	4767
810	0	3.7740	3.0013	0.4074	3.6205	-124	3.3877	0.0000	2.17E-01	2.69E+00	0	4801	-0.0004				

1080	0.785	4.6065	4.7183	0.2309	5.1717	-113	4.6624	0.0000	3.10E-01	3.70E+00	785	7643	-0.00023	-0.00011	-0.000113	0.0044392	6858
1085	0.785	4.6345	4.7317	0.2343	5.2050	-113	4.6831	0.0000	3.12E-01	3.72E+00	785	7687	-0.00023	-0.00011	-0.000115	0.0044584	6902
1090	0.785	4.6496	4.7586	0.2381	5.2391	-113	4.7041	0.0000	3.14E-01	3.73E+00	785	7732	-0.00023	-0.00011	-0.000117	0.0044780	6947
1095	0.785	4.6659	4.7828	0.2435	5.2690	-113	4.7243	0.0000	3.16E-01	3.75E+00	785	7772	-0.00024	-0.00012	-0.000120	0.0044970	6987
1100	0.785	4.6798	4.8096	0.2484	5.2997	-113	4.7447	0.0000	3.18E-01	3.76E+00	785	7812	-0.00024	-0.00012	-0.000122	0.0045161	7027
1105	0.785	4.7065	4.8231	0.2521	5.3304	-113	4.7648	0.0000	3.20E-01	3.78E+00	785	7853	-0.00025	-0.00012	-0.000124	0.0045350	7068
1110	0.785	4.7215	4.8499	0.2575	5.3603	-113	4.7857	0.0000	3.22E-01	3.79E+00	785	7893	-0.00025	-0.00012	-0.000127	0.0045547	7108
1115	0.785	4.7433	4.8687	0.2619	5.3918	-113	4.8060	0.0000	3.24E-01	3.81E+00	785	7935	-0.00026	-0.00013	-0.000129	0.0045737	7150
1120	0.785	4.7673	4.8875	0.2675	5.4234	-113	4.8274	0.0000	3.25E-01	3.83E+00	785	7976	-0.00026	-0.00013	-0.000132	0.0045938	7191
1125	0.785	4.7873	4.9090	0.2719	5.4524	-113	4.8481	0.0000	3.27E-01	3.84E+00	785	8015	-0.00027	-0.00013	-0.000134	0.0046135	7230
1130	0.785	4.8046	4.9332	0.2774	5.4823	-113	4.8689	0.0000	3.29E-01	3.86E+00	785	8055	-0.00027	-0.00013	-0.000137	0.0046330	7270
1135	0.785	4.8219	4.9574	0.2834	5.5105	-113	4.8897	0.0000	3.31E-01	3.88E+00	785	8092	-0.00028	-0.00014	-0.000140	0.0046527	7307
1140	0.785	4.8355	4.9842	0.2900	5.5395	-113	4.9098	0.0000	3.32E-01	3.89E+00	785	8130	-0.00029	-0.00014	-0.000143	0.0046718	7345
1145	0.785	4.8572	5.0030	0.2953	5.5685	-113	4.9301	0.0000	3.34E-01	3.91E+00	785	8169	-0.00029	-0.00014	-0.000146	0.0046909	7384
1150	0.785	4.8792	5.0245	0.3009	5.5984	-113	4.9518	0.0000	3.36E-01	3.92E+00	785	8208	-0.0003	-0.00015	-0.000148	0.0047115	7423
1155	0.785	4.8965	5.0487	0.3060	5.6265	-113	4.9726	0.0000	3.38E-01	3.94E+00	785	8246	-0.0003	-0.00015	-0.000151	0.0047311	7461
1160	0.785	4.9167	5.0702	0.3103	5.6564	-113	4.9934	0.0000	3.39E-01	3.96E+00	785	8285	-0.00031	-0.00015	-0.000153	0.0047508	7500
1165	0.785	4.9355	5.0943	0.3154	5.6829	-113	5.0149	0.0000	3.41E-01	3.97E+00	785	8321	-0.00031	-0.00015	-0.000156	0.0047713	7536
1170	0.785	4.9518	5.1185	0.3202	5.7102	-113	5.0351	0.0000	3.43E-01	3.99E+00	785	8357	-0.00032	-0.00015	-0.000158	0.0047905	7572
1175	0.785	4.9701	5.1400	0.3248	5.7392	-112	5.0550	0.0000	3.44E-01	4.00E+00	785	8395	-0.00032	-0.00016	-0.000160	0.0048093	7610
1180	0.785	4.9891	5.1615	0.3307	5.7682	-112	5.0753	0.0000	3.46E-01	4.02E+00	785	8434	-0.00033	-0.00016	-0.000163	0.0048284	7649
1185	0.785	5.0068	5.1830	0.3362	5.7955	-112	5.0949	0.0000	3.48E-01	4.04E+00	785	8470	-0.00033	-0.00016	-0.000166	0.0048469	7685
1190	0.785	5.0252	5.2044	0.3427	5.8245	-112	5.1148	0.0000	3.49E-01	4.05E+00	785	8508	-0.00034	-0.00017	-0.000169	0.0048657	7723
1195	0.785	5.0421	5.2286	0.3479	5.8527	-112	5.1354	0.0000	3.51E-01	4.07E+00	785	8546	-0.00034	-0.00017	-0.000172	0.0048851	7761
1200	0.785	5.0624	5.2501	0.3549	5.8791	-112	5.1562	0.0000	3.53E-01	4.08E+00	785	8581	-0.00035	-0.00017	-0.000176	0.0049051	7796
1205	0.785	5.0853	5.2689	0.3609	5.9056	-112	5.1771	0.0000	3.54E-01	4.10E+00	785	8616	-0.00036	-0.00017	-0.000179	0.0049250	7831
1210	0.785	5.1041	5.2931	0.3668	5.9329	-112	5.1986	0.0000	3.56E-01	4.12E+00	785	8652	-0.00036	-0.00018	-0.000182	0.0049455	7867
1215	0.785	5.1246	5.3145	0.3711	5.9602	-112	5.2195	0.0000	3.58E-01	4.13E+00	785	8688	-0.00037	-0.00018	-0.000184	0.0049654	7903
1220	0.785	5.1416	5.3387	0.3780	5.9866	-112	5.2402	0.0000	3.59E-01	4.15E+00	785	8723	-0.00037	-0.00018	-0.000187	0.0049850	7938
1225	0.785	5.1600	5.3602	0.3830	6.0131	-112	5.2601	0.0000	3.61E-01	4.16E+00	785	8758	-0.00038	-0.00019	-0.000190	0.0050040	7973
1230	0.785	5.1779	5.3817	0.3889	6.0395	-112	5.2798	0.0000	3.62E-01	4.18E+00	785	8793	-0.00038	-0.00019	-0.000193	0.0050227	8008
1235	0.785	5.2002	5.4035	0.3961	6.0660	-112	5.3004	0.0000	3.64E-01	4.20E+00	785	8829	-0.00039	-0.00019	-0.000196	0.0050422	8044
1240	0.785	5.2197	5.4220	0.4037	6.0925	-112	5.3209	0.0000	3.66E-01	4.21E+00	785	8864	-0.0004	-0.0002	-0.000200	0.0050618	8079
1245	0.785	5.2358	5.4461	0.4101	6.1189	-112	5.3410	0.0000	3.67E-01	4.23E+00	785	8899	-0.00041	-0.0002	-0.000203	0.0050809	8114
1250	0.785	5.2581	5.4649	0.4179	6.1462	-112	5.3615	0.0000	3.69E-01	4.24E+00	785	8935	-0.00041	-0.0002	-0.000207	0.0051004	8150
1255	0.785	5.2736	5.4918	0.4239	6.1744	-112	5.3827	0.0000	3.70E-01	4.26E+00	785	8972	-0.00042	-0.00021	-0.000210	0.0051205	8187
1260	0.785	5.2919	5.5133	0.4313	6.2017	-112	5.4026	0.0000	3.72E-01	4.28E+00	785	9009	-0.00043	-0.00021	-0.000214	0.0051393	8224
1265	0.785	5.3084	5.5374	0.4380	6.2290	-112	5.4229	0.0000	3.74E-01	4.29E+00	785	9045	-0.00043	-0.00021	-0.000217	0.0051586	8260
1270	0.785	5.3322	5.5562	0.4445	6.2563	-112	5.4442	0.0000	3.75E-01	4.31E+00	785	9081	-0.00044	-0.00022	-0.000220	0.0051789	8296
1275	0.785	5.3530	5.5777	0.4504	6.2828	-111	5.4653	0.0000	3.77E-01	4.33E+00	785	9116	-0.00045	-0.00022	-0.000223	0.0051991	8331
1280	0.785	5.3706	5.6019	0.4568	6.3084	-111	5.4862	0.0000	3.79E-01	4.34E+00	785	9150	-0.00045	-0.00022	-0.000227	0.0052191	8365
1285	0.785	5.3953	5.6180	0.4636	6.3365	-111	5.5067	0.0000	3.80E-01	4.36E+00	785	9187	-0.00046	-0.00023	-0.000230	0.0052384	8402
1290	0.785	5.4102	5.6448	0.4709	6.3630	-111	5.5275	0.0000	3.82E-01	4.37E+00	785	9222	-0.00047	-0.00023	-0.000234	0.0052583	8437
1295	0.785	5.4268	5.6690	0.4768	6.3903	-111	5.5479	0.0000	3.83E-01	4.39E+00	785	9259	-0.00047	-0.00023	-0.000237	0.0052777	8474
1300	0.785	5.4483	5.6878	0.4830	6.4168	-111	5.5681	0.0000	3.85E-01	4.41E+00	785	9294	-0.00048	-0.00023	-0.000240	0.0052968	8509
1305	0.785	5.4729	5.7039	0.4894	6.4432	-111	5.5884	0.0000	3.87E-01	4.42E+00	785	9329	-0.00048	-0.00024	-0.000243	0.0053162	8544
1310	0.785	5.4892	5.7308	0.4946	6.4697	-111	5.6100	0.0000	3.88E-01	4.44E+00	785	9364	-0.00049	-0.00024	-0.000246	0.0053368	8579
1315	0.785	5.5139	5.7469	0.4998	6.4970	-111	5.6304	0.0000	3.90E-01	4.45E+00	785	9400	-0.0005	-0.00024	-0.000248	0.0053562	8615
1320	0.785	5.5343	5.7684	0.5074	6.5226	-111	5.6514	0.0000	3.91E-01	4.47E+00	785	9434	-0.0005	-0.00025	-0.000252	0.0053763	8649
1325	0.785	5.5521	5.7925	0.5152	6.5499	-111	5.6723	0.0000	3.93E-01	4.49E+00	785	9470	-0.00051	-0.00025	-0.000256	0.0053962	8685
1330	0.785	5.5747	5.8113	0.5236	6.5772	-111	5.6930	0.0000	3.95E-01	4.50E+00	785	9506	-0.00052	-0.00025	-0.000260	0.0054158	8721
1335	0.785	5.5936	5.8328	0.5313	6.6020	-111	5.7132	0.0000	3.96E-01	4.52E+00	785	9539	-0.00053	-0.00026	-0.000264	0.0054352	8754
1340	0.785	5.6146	5.8543	0.5396	6.6284	-111	5.7344	0.0000	3.98E-01	4.54E+00	785	9574	-0.00053	-0.00026	-0.000268	0.0054555	8789
1345	0.785	5.6343	5.8758	0.5472	6.6558	-111	5.7551	0.0000	3.99E-01	4.55E+00	785	9611	-0.00054	-0.00027	-0.000272	0.0054750	8826
1350	0.785	5.6539	5.8973	0.5550	6.6831	-111	5.7756	0.0000	4.01E-01	4.57E+00	785	9647	-0.00055	-0.00027	-0.000276	0.0054946	8862
1355	0.785	5.6710	5.9214	0.5618	6.7104	-111	5.7962	0.0000	4.02E-01	4.58E+00	785	9683	-0.00056	-0.00027	-0.000279	0.0055141	8898
1360	0.785	5.6920	5.9429	0.5698	6.7377	-111	5.8175	0.0000	4.04E-01	4.60E+00	785	9719	-0.00057	-0.00028	-0.000283	0.0055344	8934
1365	0.785	5.7145	5.9617	0.5773	6.7641	-111	5.8381	0.0000	4.06E-01	4.62E+00	785	9754	-0.00057	-0.00028	-0.000287	0.0055540	8969
1370	0.785	5.7295	5.9859	0.5844	6.7906	-111	5.8577	0.0000	4.07E-01	4.63E+00	785	9789	-0.00058	-0.00028	-0.000291	0.0055727	9004
1375	0.785	5.7489	6.0073	0.5927	6.8162	-111	5.8781	0.0000	4.09E-01	4.65E+00	785	9823	-0.00059	-0.00029	-0.000295	0.0055921	9038
1380	0.785	5.7688	6.0288	0.6015	6.8409	-110	5.8988	0.0000	4.10E-01	4.67E+00	785	9856	-0.0006	-0.00029	-0.000299	0.0056119	9071
1385	0.785	5.7877	6.0503	0.6097	6.8665	-110	5.9190	0.0000	4.12E-								

1665	0.785	6.8566	7.2880	1.2046	8.2876	-108	7.0723	0.0000	4.97E-01	5.59E+00	785	11774	-0.0012	-0.00059	-0.000602	0.0067336	10989
1670	0.785	6.8772	7.3068	1.2197	8.3124	-108	7.0920	0.0000	4.99E-01	5.60E+00	785	11807	-0.00121	-0.0006	-0.000609	0.0067524	11022
1675	0.785	6.9005	7.3229	1.2343	8.3363	-108	7.1117	0.0000	5.00E-01	5.62E+00	785	11839	-0.00123	-0.0006	-0.000616	0.0067712	11054
1680	0.785	6.9164	7.3498	1.2471	8.3602	-108	7.1311	0.0000	5.02E-01	5.64E+00	785	11871	-0.00124	-0.00061	-0.000623	0.0067919	11086
1685	0.785	6.9388	7.3686	1.2603	8.3841	-108	7.1537	0.0000	5.03E-01	5.65E+00	785	11902	-0.00126	-0.00062	-0.000630	0.0068117	11117
1690	0.785	6.9527	7.3954	1.2735	8.4097	-107	7.1740	0.0000	5.05E-01	5.67E+00	785	11936	-0.00127	-0.00062	-0.000636	0.0068311	11151
1695	0.785	6.9708	7.4115	1.2854	8.4336	-107	7.1951	0.0000	5.06E-01	5.69E+00	785	11968	-0.00128	-0.00063	-0.000642	0.0068514	11183
1700	0.785	6.9911	7.4411	1.3001	8.4592	-107	7.2161	0.0000	5.08E-01	5.70E+00	785	12002	-0.0013	-0.00064	-0.000649	0.0068714	11217
1705	1.57	7.2469	7.8469	0.2213	8.4794	-101	7.5469	0.0000	5.09E-01	5.98E+00	1570	12814	-0.00022	-0.00011	-0.000109	0.0072116	11244
1710	1.57	7.2673	7.8673	0.2224	8.5118	-101	7.5673	0.0000	5.11E-01	6.00E+00	1570	12857	-0.00022	-0.00011	-0.000109	0.0072307	11287
1715	1.57	7.2878	7.8878	0.2286	8.5432	-101	7.5878	0.0000	5.13E-01	6.01E+00	1570	12898	-0.00022	-0.00011	-0.000112	0.0072499	11328
1720	1.57	7.3082	7.9082	0.2350	8.5754	-101	7.6082	0.0000	5.15E-01	6.03E+00	1570	12941	-0.00023	-0.00011	-0.000115	0.0072689	11371
1725	1.57	7.3285	7.9285	0.2363	8.6075	-101	7.6285	0.0000	5.16E-01	6.05E+00	1570	12984	-0.00023	-0.00011	-0.000116	0.0072879	11414
1730	1.57	7.3491	7.9491	0.2387	8.6399	-101	7.6491	0.0000	5.18E-01	6.06E+00	1570	13027	-0.00023	-0.00011	-0.000117	0.0073072	11457
1735	1.57	7.3694	7.9694	0.2468	8.6735	-101	7.6694	0.0000	5.20E-01	6.08E+00	1570	13071	-0.00024	-0.00012	-0.000121	0.0073260	11501
1740	1.57	7.3897	7.9897	0.2433	8.7068	-101	7.6897	0.0000	5.22E-01	6.09E+00	1570	13115	-0.00024	-0.00012	-0.000120	0.0073449	11545
1745	1.57	7.4101	8.0101	0.2449	8.7386	-101	7.7101	0.0000	5.24E-01	6.11E+00	1570	13157	-0.00024	-0.00012	-0.000120	0.0073640	11587
1750	1.57	7.4304	8.0304	0.2440	8.7703	-101	7.7304	0.0000	5.26E-01	6.12E+00	1570	13200	-0.00024	-0.00012	-0.000120	0.0073830	11630
1755	1.57	7.4505	8.0505	0.2449	8.8023	-101	7.7505	0.0000	5.28E-01	6.14E+00	1570	13242	-0.00024	-0.00012	-0.000120	0.0074018	11672
1760	1.57	7.4708	8.0708	0.2411	8.8338	-101	7.7708	0.0000	5.30E-01	6.15E+00	1570	13284	-0.00024	-0.00012	-0.000118	0.0074208	11714
1765	1.57	7.4912	8.0912	0.2482	8.8659	-101	7.7912	0.0000	5.32E-01	6.17E+00	1570	13326	-0.00024	-0.00012	-0.000122	0.0074398	11756
1770	1.57	7.5113	8.1113	0.2548	8.8993	-101	7.8113	0.0000	5.34E-01	6.19E+00	1570	13371	-0.00025	-0.00012	-0.000125	0.0074585	11801
1775	1.57	7.5317	8.1317	0.2653	8.9324	-101	7.8317	0.0000	5.36E-01	6.20E+00	1570	13414	-0.00026	-0.00013	-0.000131	0.0074775	11844
1780	1.57	7.5520	8.1520	0.2724	8.9640	-101	7.8520	0.0000	5.38E-01	6.22E+00	1570	13456	-0.00027	-0.00013	-0.000134	0.0074965	11886
1785	1.57	7.5724	8.1724	0.2785	8.9969	-101	7.8724	0.0000	5.40E-01	6.23E+00	1570	13500	-0.00027	-0.00013	-0.000137	0.0075155	11930
1790	1.57	7.5925	8.1925	0.2847	9.0279	-101	7.8925	0.0000	5.42E-01	6.25E+00	1570	13541	-0.00028	-0.00014	-0.000140	0.0075344	11971
1795	1.57	7.6129	8.2129	0.2860	9.0589	-100	7.9129	0.0000	5.44E-01	6.26E+00	1570	13582	-0.00028	-0.00014	-0.000141	0.0075535	12012
1800	1.57	7.6335	8.2335	0.2875	9.0899	-100	7.9335	0.0000	5.45E-01	6.28E+00	1570	13623	-0.00028	-0.00014	-0.000142	0.0075728	12053
1805	1.57	7.6539	8.2539	0.2902	9.1224	-100	7.9539	0.0000	5.47E-01	6.30E+00	1570	13666	-0.00029	-0.00014	-0.000143	0.0075919	12096
1810	1.57	7.6744	8.2744	0.2935	9.1533	-100	7.9744	0.0000	5.49E-01	6.31E+00	1570	13707	-0.00029	-0.00014	-0.000145	0.0076111	12137
1815	1.57	7.6947	8.2947	0.2992	9.1841	-100	7.9947	0.0000	5.51E-01	6.33E+00	1570	13748	-0.00029	-0.00014	-0.000148	0.0076302	12178
1820	1.57	7.7152	8.3152	0.30173	9.2159	-100	8.0152	0.0000	5.53E-01	6.34E+00	1570	13790	-0.0003	-0.00015	-0.00015	0.0076494	12220
1825	1.57	7.7354	8.3354	0.3111	9.2459	-100	8.0354	0.0000	5.55E-01	6.36E+00	1570	13830	-0.00031	-0.00015	-0.000154	0.0076684	12260
1830	1.57	7.7556	8.3556	0.3166	9.2761	-100	8.0556	0.0000	5.57E-01	6.37E+00	1570	13870	-0.00031	-0.00015	-0.000156	0.0076873	12300
1835	1.57	7.7757	8.3757	0.3238	9.3065	-100	8.0757	0.0000	5.58E-01	6.39E+00	1570	13911	-0.00032	-0.00016	-0.000160	0.0077062	12341
1840	1.57	7.7963	8.3963	0.3227	9.3382	-100	8.0963	0.0000	5.60E-01	6.41E+00	1570	13953	-0.00032	-0.00016	-0.000159	0.0077255	12383
1845	1.57	7.8164	8.4164	0.3276	9.3680	-100	8.1164	0.0000	5.62E-01	6.42E+00	1570	13992	-0.00032	-0.00016	-0.000162	0.0077444	12422
1850	1.57	7.8364	8.4364	0.3333	9.3988	-100	8.1364	0.0000	5.64E-01	6.44E+00	1570	14033	-0.00033	-0.00016	-0.000165	0.0077631	12463
1855	1.57	7.8568	8.4568	0.3353	9.4287	-100	8.1568	0.0000	5.66E-01	6.45E+00	1570	14073	-0.00033	-0.00016	-0.000166	0.0077823	12503
1860	1.57	7.8771	8.4771	0.3397	9.4590	-100	8.1771	0.0000	5.68E-01	6.47E+00	1570	14113	-0.00033	-0.00016	-0.000168	0.0078014	12543
1865	1.57	7.8972	8.4972	0.3425	9.4886	-100	8.1972	0.0000	5.69E-01	6.48E+00	1570	14152	-0.00034	-0.00017	-0.000169	0.0078203	12582
1870	1.57	7.9178	8.5178	0.3454	9.5187	-100	8.2178	0.0000	5.71E-01	6.50E+00	1570	14192	-0.00034	-0.00017	-0.000171	0.0078397	12622
1875	1.57	7.9382	8.5382	0.3450	9.5483	-100	8.2382	0.0000	5.73E-01	6.52E+00	1570	14231	-0.00034	-0.00017	-0.000171	0.0078590	12661
1880	1.57	7.9583	8.5583	0.3489	9.5779	-100	8.2583	0.0000	5.75E-01	6.53E+00	1570	14270	-0.00034	-0.00017	-0.000173	0.0078779	12700
1885	1.57	7.9787	8.5787	0.3518	9.6063	-100	8.2787	0.0000	5.76E-01	6.55E+00	1570	14308	-0.00035	-0.00017	-0.000174	0.0078972	12738
1890	1.57	7.9992	8.5992	0.3560	9.6352	-100	8.2992	0.0000	5.78E-01	6.56E+00	1570	14346	-0.00035	-0.00017	-0.000176	0.0079165	12776
1895	1.57	8.0196	8.6196	0.3604	9.6622	-99	8.3196	0.0000	5.80E-01	6.58E+00	1570	14382	-0.00036	-0.00017	-0.000178	0.0079359	12812
1900	1.57	8.0398	8.6398	0.3700	9.6915	-100	8.3398	0.0000	5.81E-01	6.59E+00	1570	14421	-0.00037	-0.00018	-0.000183	0.0079550	12851
1905	1.57	8.0603	8.6603	0.3758	9.7208	-99	8.3603	0.0000	5.83E-01	6.61E+00	1570	14460	-0.00037	-0.00018	-0.000186	0.0079743	12890
1910	1.57	8.0806	8.6806	0.3806	9.7506	-100	8.3806	0.0000	5.85E-01	6.63E+00	1570	14499	-0.00038	-0.00018	-0.000188	0.0079934	12929
1915	1.57	8.1009	8.7009	0.3887	9.7793	-99	8.4009	0.0000	5.87E-01	6.64E+00	1570	14537	-0.00038	-0.00019	-0.000192	0.0080126	12967
1920	1.57	8.1209	8.7209	0.3912	9.8102	-99	8.4209	0.0000	5.89E-01	6.66E+00	1570	14578	-0.00039	-0.00019	-0.000194	0.0080313	13008
1925	1.57	8.1414	8.7414	0.3931	9.8388	-99	8.4414	0.0000	5.90E-01	6.67E+00	1570	14616	-0.00039	-0.00019	-0.000195	0.0080507	13046
1930	1.57	8.1616	8.7616	0.3960	9.8668	-99	8.4616	0.0000	5.92E-01	6.69E+00	1570	14653	-0.00039	-0.00019	-0.000196	0.0080698	13083
1935	1.57	8.1819	8.7819	0.4000	9.8947	-99	8.4819	0.0000	5.94E-01	6.70E+00	1570	14690	-0.0004	-0.00019	-0.000198	0.0080890	13120
1940	1.57	8.2024	8.8024	0.4037	9.9239	-99	8.5024	0.0000	5.95E-01	6.72E+00	1570	14729	-0.0004	-0.0002	-0.000200	0.0081084	13159
1945	1.57	8.2230	8.8230	0.4094	9.9511	-99	8.5230	0.0000	5.97E-01	6.74E+00	1570	14762	-0.0004	-0.0002	-0.000203	0.0081281	13195
1950	1.57	8.2434	8.8434	0.4169	9.9790	-99	8.5434	0.0000	5.99E-01	6.75E+00	1570	14802	-0.00041	-0.0002	-0.000207	0.0081473	13232
1955	1.57	8.2638	8.8638	0.4226	10.0072	-99	8.5638	0.0000	6.00E-01	6.77E+00	1570	14840	-0.00042	-0.00021	-0.000209	0.0081666	13270
1960	1.57	8.2841	8.8841	0.4299	10.0357	-99	8.5841	0.0000	6.02E-01	6.78E+00	1570	14877	-0.00043	-0.00021	-0.000213	0.0081858	13307
1965	1.57	8.3043	8.9043	0.4402	10.0628	-99	8.6043	0.0000	6.04E-01	6.80E+00	1570	14913	-0.00044	-0.00021	-0.000218	0.0082050	1334

2250	1.57	9.4634	10.0634	0.8906	11.6064	-96	9.7634	0.0000	6.96E-01	7.71E+00	1570	16960	-0.00089	-0.00044	-0.000444	0.0093058	15390
2255	1.57	9.4837	10.0837	0.9053	11.6311	-96	9.7837	0.0000	6.98E-01	7.72E+00	1570	16993	-0.0009	-0.00044	-0.000452	0.0093252	15423
2260	1.57	9.5042	10.1042	0.9167	11.6536	-96	9.8042	0.0000	6.99E-01	7.74E+00	1570	17023	-0.00091	-0.00045	-0.000457	0.0093450	15453
2265	1.57	9.5246	10.1246	0.9251	11.6801	-96	9.8246	0.0000	7.01E-01	7.76E+00	1570	17058	-0.00092	-0.00045	-0.000461	0.0093644	15488
2270	1.57	9.5449	10.1449	0.9385	11.7071	-96	9.8449	0.0000	7.02E-01	7.77E+00	1570	17094	-0.00093	-0.00046	-0.000468	0.0093837	15524
2275	1.57	9.5650	10.1650	0.9621	11.7341	-96	9.8650	0.0000	7.04E-01	7.79E+00	1570	17130	-0.00096	-0.00047	-0.000480	0.0094027	15560
2280	1.57	9.5853	10.1853	0.9814	11.7612	-96	9.8853	0.0000	7.06E-01	7.80E+00	1570	17165	-0.00098	-0.00048	-0.000490	0.0094220	15595
2285	1.57	9.6056	10.2056	1.0017	11.7869	-96	9.9056	0.0000	7.07E-01	7.82E+00	1570	17200	-0.001	-0.00049	-0.000500	0.0094414	15630
2290	1.57	9.6260	10.2260	1.0245	11.8129	-96	9.9260	0.0000	7.09E-01	7.83E+00	1570	17234	-0.00102	-0.0005	-0.000511	0.0094608	15664
2295	1.57	9.6463	10.2463	1.0421	11.8387	-96	9.9463	0.0000	7.10E-01	7.85E+00	1570	17268	-0.00104	-0.00051	-0.000520	0.0094802	15698
2300	1.57	9.6670	10.2670	1.0536	11.8652	-96	9.9670	0.0000	7.12E-01	7.87E+00	1570	17303	-0.00105	-0.00052	-0.000526	0.0094999	15733
2305	1.57	9.6876	10.2876	1.0696	11.8911	-96	9.9876	0.0000	7.13E-01	7.88E+00	1570	17338	-0.00106	-0.00052	-0.000534	0.0095196	15768
2310	1.57	9.7055	10.3055	1.0853	11.9175	-96	10.0055	0.0000	7.15E-01	7.90E+00	1570	17373	-0.00108	-0.00053	-0.000542	0.0095364	15803
2315	1.57	9.7233	10.3233	1.1055	11.9433	-96	10.0233	0.0000	7.17E-01	7.91E+00	1570	17407	-0.0011	-0.00054	-0.000552	0.0095532	15837
2320	1.57	9.7414	10.3414	1.1271	11.9703	-96	10.0414	0.0000	7.18E-01	7.92E+00	1570	17443	-0.00112	-0.00055	-0.000563	0.0095702	15873
2325	1.57	9.7591	10.3591	1.1506	11.9956	-96	10.0591	0.0000	7.20E-01	7.94E+00	1570	17476	-0.00115	-0.00056	-0.000575	0.0095869	15906
2330	1.57	9.7944	10.3568	1.1656	12.0209	-96	10.0756	0.0000	7.21E-01	7.95E+00	1570	17510	-0.00116	-0.00057	-0.000582	0.0096024	15940
2335	1.57	9.8143	10.3777	1.1785	12.0463	-96	10.0960	0.0000	7.23E-01	7.97E+00	1570	17544	-0.00117	-0.00058	-0.000589	0.0096218	15974
2340	1.57	9.8347	10.3977	1.1915	12.0723	-96	10.1162	0.0000	7.24E-01	7.98E+00	1570	17578	-0.00119	-0.00058	-0.000595	0.0096411	16008
2345	1.57	9.8545	10.4189	1.2025	12.0969	-96	10.1367	0.0000	7.26E-01	8.00E+00	1570	17611	-0.0012	-0.00059	-0.000601	0.0096607	16041
2350	1.57	9.8741	10.4405	1.2155	12.1218	-96	10.1573	0.0000	7.27E-01	8.02E+00	1570	17644	-0.00121	-0.00059	-0.000607	0.0096804	16074
2355	1.57	9.8940	10.4614	1.2364	12.1464	-96	10.1777	0.0000	7.29E-01	8.03E+00	1570	17676	-0.00123	-0.00061	-0.000618	0.0097000	16106
2360	1.57	9.9143	10.4815	1.2485	12.1690	-96	10.1979	0.0000	7.30E-01	8.05E+00	1570	17706	-0.00124	-0.00061	-0.000624	0.0097194	16136
2365	1.57	9.9345	10.5021	1.2630	12.1934	-96	10.2183	0.0000	7.32E-01	8.06E+00	1570	17739	-0.00126	-0.00062	-0.000631	0.0097390	16169
2370	1.57	9.9544	10.5228	1.2817	12.2278	-96	10.2386	0.0000	7.34E-01	8.08E+00	1570	17784	-0.00128	-0.00063	-0.000640	0.0097578	16214
2375	1.57	9.9748	10.5428	1.2993	12.2593	-96	10.2588	0.0000	7.36E-01	8.09E+00	1570	17826	-0.00129	-0.00064	-0.000649	0.0097767	16256
2380	1.57	9.9945	10.5639	1.3125	12.2914	-96	10.2792	0.0000	7.37E-01	8.11E+00	1570	17869	-0.00131	-0.00064	-0.000656	0.0097958	16299
2385	1.57	10.0148	10.5842	1.3321	12.3230	-96	10.2995	0.0000	7.39E-01	8.13E+00	1570	17910	-0.00133	-0.00065	-0.000666	0.0098147	16340
2390	1.57	10.0347	10.6053	1.3460	12.3551	-96	10.3200	0.0000	7.41E-01	8.14E+00	1570	17953	-0.00134	-0.00066	-0.000672	0.0098339	16383
2395	1.57	10.0549	10.6257	1.3640	12.3855	-96	10.3403	0.0000	7.43E-01	8.16E+00	1570	17993	-0.00136	-0.00067	-0.000682	0.0098530	16423
2400	1.57	10.0748	10.6464	1.3803	12.4171	-96	10.3606	0.0000	7.45E-01	8.17E+00	1570	18035	-0.00138	-0.00068	-0.000690	0.0098720	16465
2405	1.57	10.0953	10.6665	1.4005	12.4479	-96	10.3809	0.0000	7.47E-01	8.19E+00	1570	18076	-0.0014	-0.00069	-0.000700	0.0098910	16506
2410	1.57	10.1148	10.6878	1.4212	12.4784	-96	10.4013	0.0000	7.49E-01	8.20E+00	1570	18116	-0.00142	-0.0007	-0.000710	0.0099102	16546
2415	1.57	10.1352	10.7082	1.4447	12.5082	-96	10.4217	0.0000	7.50E-01	8.22E+00	1570	18156	-0.00144	-0.00071	-0.000722	0.0099294	16586
2420	1.57	10.1558	10.7276	1.4650	12.5373	-96	10.4417	0.0000	7.52E-01	8.24E+00	1570	18195	-0.00146	-0.00072	-0.000732	0.0099483	16625
2425	1.57	10.1762	10.7474	1.4835	12.5666	-95	10.4618	0.0000	7.54E-01	8.25E+00	1570	18233	-0.00148	-0.00073	-0.000741	0.0099672	16663
2430	1.57	10.1966	10.7672	1.5022	12.5953	-95	10.4819	0.0000	7.56E-01	8.27E+00	1570	18271	-0.0015	-0.00074	-0.000751	0.0099862	16701
2435	1.57	10.2170	10.7876	1.5169	12.6234	-95	10.5023	0.0000	7.57E-01	8.28E+00	1570	18309	-0.00151	-0.00074	-0.000758	0.0100055	16739
2440	1.57	10.2369	10.8083	1.5336	12.6513	-95	10.5226	0.0000	7.59E-01	8.30E+00	1570	18346	-0.00153	-0.00075	-0.000767	0.0100247	16776
2445	1.57	10.2566	10.8296	1.5517	12.6799	-95	10.5431	0.0000	7.61E-01	8.31E+00	1570	18384	-0.00155	-0.00076	-0.000776	0.0100441	16814
2450	1.57	10.2764	10.8508	1.5675	12.7067	-95	10.5636	0.0000	7.62E-01	8.33E+00	1570	18419	-0.00156	-0.00077	-0.000784	0.0100636	16849
2455	1.57	10.2960	10.8724	1.5860	12.7342	-95	10.5842	0.0000	7.64E-01	8.35E+00	1570	18456	-0.00158	-0.00078	-0.000793	0.0100831	16886
2460	1.57	10.3162	10.8926	1.6060	12.7611	-95	10.6044	0.0000	7.66E-01	8.36E+00	1570	18491	-0.0016	-0.00079	-0.000803	0.0101023	16921
2465	1.57	10.3369	10.9141	1.6304	12.7868	-95	10.6250	0.0000	7.67E-01	8.38E+00	1570	18525	-0.00163	-0.0008	-0.000815	0.0101210	16955
2470	1.57	10.3564	10.9356	1.6476	12.8130	-95	10.6455	0.0000	7.69E-01	8.40E+00	1570	18560	-0.00164	-0.00081	-0.000824	0.0101415	16990
2475	1.57	10.3756	10.9562	1.6749	12.8391	-95	10.6659	0.0000	7.70E-01	8.41E+00	1570	18595	-0.00167	-0.00082	-0.000837	0.0101610	17025
2480	1.57	10.3960	10.9762	1.6997	12.8659	-95	10.6861	0.0000	7.72E-01	8.43E+00	1570	18630	-0.00169	-0.00083	-0.000850	0.0101802	17060
2485	1.57	10.4163	10.9963	1.7224	12.8921	-95	10.7063	0.0000	7.74E-01	8.44E+00	1570	18665	-0.00172	-0.00084	-0.000861	0.0101994	17095
2490	1.57	10.4369	11.0159	1.7384	12.9182	-95	10.7264	0.0000	7.75E-01	8.46E+00	1570	18700	-0.00173	-0.00085	-0.000869	0.0102185	17130
2495	1.57	10.4574	11.0358	1.7646	12.9430	-95	10.7466	0.0000	7.77E-01	8.47E+00	1570	18733	-0.00176	-0.00086	-0.000882	0.0102378	17163
2500	1.57	10.4775	11.0559	1.7818	12.9684	-95	10.7667	0.0000	7.78E-01	8.49E+00	1570	18766	-0.00178	-0.00087	-0.000891	0.0102570	17196
2505	1.57	10.4977	11.0765	1.8036	12.9923	-95	10.7871	0.0000	7.80E-01	8.51E+00	1570	18798	-0.0018	-0.00088	-0.000902	0.0102766	17228
2510	1.57	10.5176	11.0974	1.8326	13.0172	-95	10.8075	0.0000	7.81E-01	8.52E+00	1570	18831	-0.00183	-0.0009	-0.000916	0.0102961	17261
2515	1.57	10.5379	11.1175	1.8641	13.0418	-95	10.8277	0.0000	7.83E-01	8.54E+00	1570	18864	-0.00186	-0.00091	-0.000932	0.0103154	17294
2520	1.57	10.5580	11.1382	1.8911	13.0671	-95	10.8481	0.0000	7.84E-01	8.55E+00	1570	18897	-0.00189	-0.00093	-0.000946	0.0103349	17327
2525	1.57	10.5779	11.1591	1.9228	13.0919	-95	10.8685	0.0000	7.86E-01	8.57E+00	1570	18930	-0.00192	-0.00094	-0.000962	0.0103544	17360
2530	1.57	10.5978	11.1798	1.9461	13.1164	-95	10.8888	0.0000	7.87E-01	8.58E+00	1570	18962	-0.00194	-0.00095	-0.000973	0.0103739	17392
2535	1.57	10.6176	11.2010	1.9723	13.1398	-95	10.9093	0.0000	7.88E-01	8.60E+00	1570	18993	-0.00197	-0.00097	-0.000987	0.0103936	17423
2540	1.57	10.6373	11.2225	1.9980	13.1638	-94	10.9299	0.0000	7.90E-01	8.62E+00	1570	19025	-0.00199	-0.00098	-0.000999	0.0104134	17455
2545	1.57	10.6576	11.2426	2.0207	13.1866	-94	10.9501	0.0000	7.91E-01	8.64E+00	1570	19056	-0.00202	-0.00099	-0.001011	0.0104328	17486
2550	1.57	10.6775	11.2635	2.0440	13.2109	-94	10.9705	0.0000	7.93E-01								

2835	1.57	11.8231	12.4353	4.1844	13.7641	-93	12.1292	0.0000	8.26E-01	9.61E+00	1570	19821	-0.00418	-0.00205	-0.002096	0.0116141	18251
2840	1.57	11.8432	12.4558	4.2486	13.7380	-92	12.1495	0.0000	8.24E-01	9.63E+00	1570	19787	-0.00424	-0.00209	-0.002128	0.0116366	18217
2845	1.57	11.8638	12.4752	4.3085	13.7150	-92	12.1695	0.0000	8.23E-01	9.64E+00	1570	19756	-0.0043	-0.00211	-0.002158	0.0116587	18186
2850	1.57	11.8836	12.4964	4.3589	13.6929	-92	12.1900	0.0000	8.22E-01	9.66E+00	1570	19727	-0.00435	-0.00214	-0.002183	0.0116812	18157
2855	1.57	11.9037	12.5169	4.4189	13.6708	-92	12.2103	0.0000	8.20E-01	9.68E+00	1570	19698	-0.00441	-0.00217	-0.002213	0.0117036	18128
2860	1.57	11.9237	12.5377	4.4689	13.6503	-92	12.2307	0.0000	8.19E-01	9.70E+00	1570	19670	-0.00446	-0.00219	-0.002238	0.0117259	18100



Test Type	Triaxial
Company	Apache Corporation
Well	University Lands 57-65 #1H
Sample	39B
Core/Depth (ft)	5189.47
Diameter (in)	0.9908
Length (in)	1.0712
Mass (g)	37.32
Saturation	As Received
Sample Density (g/cc)	2.76
Effective Confining Pressure (psi)	1570
Pore Pressure (psi)	0
Static Young's Modulus (X10^6 psi)	4.50
Static Poisson's Ratio	0.27
Compressive Strength (psi)	34011

Test Type Triaxial
Company Apache Corporation

Diameter sample = 0.9908 inch
Length of the sample = 1.0712 inch
Initial Chord Length (Gap) = 1.3985 inch
Sin(Theta0/2) = 0.880778 unitless
Theta0 = 2.155007 radians
Thickness of rubber = 0.0185 inches
Target Confining Pressure = 1570 psi
Pore Pressure = 0 psi

mass sat = 37.32
mass dry =
Test # 39B
Depth-ft = 5189.47
Well = University Lands 57-65 #1H
Density = 2.76
Job # 121499
Swi = As Received

Plunger Diameter = 2 inch

Pre Stress Test

Time (sec)	Pore Pressure (psi)	Cell Press (ksi)	Axial LVDVT 1	Axial LVDVT 2	Radial LVDVT (mills)	Axial LVDVT Avg (mills)	Axial Stress (psi)
0	0	0.102	-0.0032	0.0108	0.0000	0.0077	0.1327
5	0	0.109	-0.0097	0.0188	0.0083	0.0084	0.1438
10	0	0.119	-0.0227	0.0457	0.0000	0.0154	0.1549
15	0	0.131	-0.0487	0.0995	0.0000	0.0293	0.1715
20	0	0.144	-0.0910	0.1586	-0.0111	0.0377	0.1825
25	0	0.156	-0.1267	0.2123	-0.0111	0.0467	0.1936
30	0	0.170	-0.1625	0.2688	0.0055	0.0571	0.2047
35	0	0.183	-0.1885	0.3172	-0.0139	0.0683	0.2157
40	0	0.195	-0.2112	0.3602	0.0055	0.0784	0.2268
45	0	0.208	-0.2437	0.4140	-0.0028	0.0890	0.2378
50	0	0.220	-0.2697	0.4516	0.0028	0.0948	0.2489
55	0	0.233	-0.2892	0.4892	0.0111	0.1039	0.2600
60	0	0.245	-0.3055	0.5269	-0.0166	0.1146	0.2766
65	0	0.258	-0.3250	0.5672	-0.0139	0.1250	0.2876
70	0	0.269	-0.3477	0.5941	-0.0111	0.1271	0.3042
75	0	0.282	-0.3575	0.6264	-0.0111	0.1384	0.3097
80	0	0.295	-0.3705	0.6506	0.0000	0.1440	0.3263
85	0	0.307	-0.3932	0.6828	-0.0083	0.1487	0.3374
90	0	0.320	-0.4030	0.7070	-0.0139	0.1559	0.3485
95	0	0.332	-0.4257	0.7286	-0.0250	0.1553	0.3650
100	0	0.344	-0.4420	0.7528	-0.0250	0.1593	0.3761
105	0	0.357	-0.4615	0.7850	-0.0250	0.1657	0.3872
110	0	0.369	-0.4875	0.8092	-0.0083	0.1648	0.3982
115	0	0.381	-0.5135	0.8334	-0.0194	0.1639	0.4093
120	0	0.393	-0.5362	0.8496	-0.0083	0.1606	0.4204
125	0	0.405	-0.5622	0.8792	-0.0305	0.1624	0.4314
130	0	0.417	-0.5915	0.9034	-0.0194	0.1599	0.4536
135	0	0.430	-0.6175	0.9249	-0.0361	0.1576	0.4591
140	0	0.442	-0.6467	0.9410	-0.0361	0.1511	0.4757
145	0	0.454	-0.6760	0.9652	-0.0361	0.1485	0.4867
150	0	0.467	-0.7150	0.9840	-0.0166	0.1385	0.4978
155	0	0.479	-0.7540	1.0082	-0.0083	0.1311	0.5033
160	0	0.492	-0.7930	1.0244	-0.0166	0.1196	0.5199
165	0	0.504	-0.8255	1.0513	-0.0277	0.1168	0.5255
170	0	0.516	-0.8612	1.0647	-0.0333	0.1057	0.5476
175	0	0.528	-0.9034	1.0809	-0.0139	0.0926	0.5587
180	0	0.540	-0.9327	1.1051	-0.0333	0.0901	0.5697
185	0	0.552	-0.9782	1.1266	-0.0250	0.0781	0.5752
190	0	0.565	-1.0269	1.1400	-0.0250	0.0605	0.5918
195	0	0.577	-1.0594	1.1643	-0.0166	0.0563	0.6029
200	0	0.589	-1.0984	1.1804	-0.0222	0.0449	0.6195
205	0	0.602	-1.1439	1.1965	-0.0166	0.0302	0.6361
210	0	0.614	-1.1764	1.2181	-0.0444	0.0247	0.6416
215	0	0.625	-1.2122	1.2315	-0.0277	0.0136	0.6582
220	0	0.638	-1.2512	1.2450	-0.0333	0.0008	0.6693
225	0	0.650	-1.2869	1.2611	-0.0333	-0.0090	0.6803
230	0	0.663	-1.3194	1.2799	-0.0527	-0.0158	0.6914
235	0	0.675	-1.3519	1.2988	-0.0499	-0.0227	0.7080
240	0	0.687	-1.3779	1.3122	-0.0527	-0.0289	0.7135
245	0	0.699	-1.4104	1.3284	-0.0444	-0.0371	0.7301
250	0	0.712	-1.4364	1.3472	-0.0416	-0.0407	0.7356
255	0	0.724	-1.4656	1.3579	-0.0361	-0.0499	0.7522
260	0	0.736	-1.4851	1.3714	-0.0499	-0.0530	0.7633
265	0	0.748	-1.5079	1.3849	-0.0583	-0.0576	0.7744
270	0	0.761	-1.5339	1.4064	-0.0416	-0.0598	0.7910
275	0	0.773	-1.5599	1.4198	-0.0472	-0.0661	0.8020
280	0	0.785	-1.5826	1.4360	-0.0472	-0.0694	0.8131
285	0	0.797	-1.6086	1.4494	-0.0555	-0.0757	0.8297
290	0	0.810	-1.6216	1.4602	-0.0610	-0.0768	0.8463
295	0	0.821	-1.6411	1.4790	-0.0333	-0.0771	0.8463
300	0	0.833	-1.6574	1.4925	-0.0416	-0.0785	0.8629
305	0	0.846	-1.6736	1.4979	-0.0388	-0.0840	0.8739
310	0	0.859	-1.6834	1.5140	-0.0416	-0.0808	0.8905
315	0	0.871	-1.6996	1.5275	-0.0583	-0.0822	0.8960
320	0	0.883	-1.7126	1.5382	-0.0693	-0.0833	0.9182
325	0	0.896	-1.7289	1.5544	-0.0555	-0.0833	0.9237
330	0	0.908	-1.7451	1.5678	-0.0499	-0.0847	0.9348
335	0	0.920	-1.7549	1.5813	-0.0583	-0.0829	0.9513
340	0	0.932	-1.7776	1.5947	-0.0472	-0.0875	0.9624
345	0	0.944	-1.7874	1.6028	-0.0721	-0.0884	0.9735
350	0	0.957	-1.7939	1.6136	-0.0721	-0.0862	0.9901
355	0	0.969	-1.8101	1.6270	-0.0749	-0.0876	0.9956
360	0	0.981	-1.8264	1.6351	-0.0721	-0.0917	1.0122
365	0	0.993	-1.8361	1.6485	-0.0666	-0.0899	1.0233
370	0	1.006	-1.8459	1.6539	-0.0721	-0.0921	1.0288
375	0	1.017	-1.8589	1.6701	-0.0721	-0.0905	1.0509
380	0	1.030	-1.8719	1.6889	-0.0638	-0.0876	1.0564

Confining	Axial	Radial	True Radi	Radial	Axial	Volume
Stress	Stress	Deform	Deform	Strain	Strain	Strain
(psi)	psi	in	in	(in/in)	(in/in)	(in ³ /in ³)
102	133	0	0	0.00000	0.0000000	0.0000000
109	144	8.3E-06	4.47E-06	0.00000	0.0000104	0.0000013
119	155	0	0	0.00000	0.0000207	0.0000207
131	172	0	0	0.00000	0.0000362	0.0000362
144	183	-1.1E-05	-6E-06	0.00001	0.0000465	0.0000585
156	194	-1.1E-05	-6E-06	0.00001	0.0000569	0.0000689
170	205	5.5E-06	2.96E-06	0.00000	0.0000672	0.0000612
183	216	-1.4E-05	-7.5E-06	0.00001	0.0000775	0.0000926
195	227	5.5E-06	2.96E-06	0.00000	0.0000878	0.0000819
208	238	-2.8E-06	-1.5E-06	0.00000	0.0000981	0.0001012
220	249	2.8E-06	1.51E-06	0.00000	0.0001085	0.0001055
233	260	1.11E-05	5.97E-06	-0.00001	0.0001188	0.0001068
245	277	-1.7E-05	-8.9E-06	0.00001	0.0001343	0.0001524
258	288	-1.4E-05	-7.5E-06	0.00001	0.0001446	0.0001597
269	304	-1.1E-05	-6E-06	0.00001	0.0001601	0.0001722
282	310	-1.1E-05	-6E-06	0.00001	0.0001652	0.0001773
295	326	0	0	0.00000	0.0001807	0.0001807
307	337	-8.3E-06	-4.5E-06	0.00000	0.0001911	0.0002001
320	349	-1.4E-05	-7.5E-06	0.00001	0.0002015	0.0002166
332	365	-2.5E-05	-1.3E-05	0.00001	0.0002169	0.0002440
344	376	-2.5E-05	-1.3E-05	0.00001	0.0002272	0.0002544
357	387	-2.5E-05	-1.3E-05	0.00001	0.0002376	0.0002647
369	398	-8.3E-06	-4.5E-06	0.00000	0.0002479	0.0002569
381	409	-1.9E-05	-1E-05	0.00001	0.0002582	0.0002793
393	420	-8.3E-06	-4.5E-06	0.00000	0.0002686	0.0002776
405	431	-3.1E-05	-1.6E-05	0.00002	0.0002788	0.0003120
417	454	-1.9E-05	-1E-05	0.00001	0.0002996	0.0003206
430	459	-3.6E-05	-1.9E-05	0.00002	0.0003047	0.0003439
442	476	-3.6E-05	-1.9E-05	0.00002	0.0003202	0.0003594
454	487	-3.6E-05	-1.9E-05	0.00002	0.0003305	0.0003697
467	498	-1.7E-05	-8.9E-06	0.00001	0.0003408	0.0003589
479	503	-8.3E-06	-4.5E-06	0.00000	0.0003460	0.0003550
492	520	-1.7E-05	-8.9E-06	0.00001	0.0003615	0.0003795
504	526	-2.8E-05	-1.5E-05	0.00002	0.0003667	0.0003968
516	548	-3.3E-05	-1.8E-05	0.00002	0.0003873	0.0004235
528	559	-1.4E-05	-7.5E-06	0.00001	0.0003977	0.0004128
540	570	-3.3E-05	-1.8E-05	0.00002	0.0004080	0.0004441
552	575	-2.5E-05	-1.3E-05	0.00001	0.0004131	0.0004402
565	592	-2.5E-05	-1.3E-05	0.00001	0.0004286	0.0004557
577	603	-1.7E-05	-8.9E-06	0.00001	0.0004389	0.0004570
589	620	-2.2E-05	-1.2E-05	0.00001	0.0004544	0.0004786
602	636	-1.7E-05	-8.9E-06	0.00001	0.0004699	0.0004880
614	642	-4.4E-05	-2.4E-05	0.00002	0.0004751	0.0005233
625	658	-2.8E-05	-1.5E-05	0.00002	0.0004906	0.0005207
638	669	-3.3E-05	-1.8E-05	0.00002	0.0005009	0.0005371
650	680	-3.3E-05	-1.8E-05	0.00002	0.0005112	0.0005474
663	691	-5.3E-05	-2.8E-05	0.00003	0.0005216	0.0005788
675	708	-5E-05	-2.7E-05	0.00003	0.0005371	0.0005913
687	714	-5.3E-05	-2.8E-05	0.00003	0.0005422	0.0005994
699	730	-4.4E-05	-2.4E-05	0.00002	0.0005577	0.0006059
712	736	-4.2E-05	-2.2E-05	0.00002	0.0005628	0.0006080
724	752	-3.6E-05	-1.9E-05	0.00002	0.0005783	0.0006175
736	763	-5E-05	-2.7E-05	0.00003	0.0005887	0.0006429
748	774	-5.8E-05	-3.1E-05	0.00003	0.0005990	0.0006624
761	791	-4.2E-05	-2.2E-05	0.00002	0.0006145	0.0006597
773	802	-4.7E-05	-2.5E-05	0.00003	0.0006248	0.0006761
785	813	-4.7E-05	-2.5E-05	0.00003	0.0006352	0.0006864
797	830	-5.6E-05	-3E-05	0.00003	0.0006507	0.0007110
810	846	-6.1E-05	-3.3E-05	0.00003	0.0006662	0.0007324
821	846	-3.3E-05	-1.8E-05	0.00002	0.0006662	0.0007023
833	863	-4.2E-05	-2.2E-05	0.00002	0.0006817	0.0007269
846	874	-3.9E-05	-2.1E-05	0.00002	0.0006919	0.0007341
859	891	-4.2E-05	-2.2E-05	0.00002	0.0007074	0.0007526
871	896	-5.8E-05	-3.1E-05	0.00003	0.0007126	0.0007759
883	918	-6.9E-05	-3.7E-05	0.00004	0.0007333	0.0008086
896	924	-5.6E-05	-3E-05	0.00003	0.0007384	0.0007987
908	935	-5E-05	-2.7E-05	0.00003	0.0007488	0.0008030
920	951	-5.8E-05	-3.1E-05	0.00003	0.0007642	0.0008275
932	962	-4.7E-05	-2.5E-05	0.00003	0.0007746	0.0008258
944	974	-7.2E-05	-3.9E-05	0.00004	0.0007849	0.0008362
957	990	-7.2E-05	-3.9E-05	0.00004	0.0008004	0.0008787
969	996	-7.5E-05	-4E-05	0.00004	0.0008055	0.0008869
981	1012	-7.2E-05	-3.9E-05	0.00004	0.0008210	0.0008994
993	1023	-6.7E-05	-3.6E-05	0.00004	0.0008314	0.0009038
1006	1029	-7.2E-05	-3.9E-05	0.00004	0.0008365	0.0009149
1017	1051	-7.2E-05	-3.9E-05	0.00004	0.0008572	0.0009355
1030	1056	-6.4E-05	-3.4E-05	0.00003	0.0008623	0.0009318

385	0	1.042	-1.8751	1.6916	-0.0583	-0.0878	1.0730	1042	1073	-5.8E-05	-3.1E-05	0.00003	0.0008778	0.0009411
390	0	1.055	-1.8881	1.7024	-0.0749	-0.0890	1.0841	1055	1084	-7.5E-05	-4E-05	0.00004	0.0008882	0.0009695
395	0	1.067	-1.8946	1.7185	-0.0610	-0.0841	1.0952	1067	1095	-6.1E-05	-3.3E-05	0.00003	0.0008985	0.0009648
400	0	1.079	-1.9109	1.7239	-0.0527	-0.0896	1.1062	1079	1106	-5.3E-05	-2.8E-05	0.00003	0.0009088	0.0009660
405	0	1.092	-1.9174	1.7400	-0.0693	-0.0847	1.1228	1092	1123	-6.9E-05	-3.7E-05	0.00004	0.0009243	0.0009996
410	0	1.104	-1.9271	1.7481	-0.0777	-0.0856	1.1339	1104	1134	-7.8E-05	-4.2E-05	0.00004	0.0009347	0.0010191
415	0	1.116	-1.9336	1.7589	-0.0666	-0.0835	1.1449	1116	1145	-6.7E-05	-3.6E-05	0.00004	0.0009449	0.0010173
420	0	1.128	-1.9466	1.7670	-0.0721	-0.0859	1.1560	1128	1156	-7.2E-05	-3.9E-05	0.00004	0.0009553	0.0010336
425	0	1.140	-1.9531	1.7831	-0.0693	-0.0811	1.1671	1140	1167	-6.9E-05	-3.7E-05	0.00004	0.0009656	0.0010409
430	0	1.152	-1.9629	1.7831	-0.0610	-0.0860	1.1837	1152	1184	-6.1E-05	-3.3E-05	0.00003	0.0009811	0.0010474
435	0	1.165	-1.9726	1.7993	-0.0638	-0.0828	1.1892	1165	1189	-6.4E-05	-3.4E-05	0.00003	0.0009863	0.0010556
440	0	1.177	-1.9759	1.8100	-0.0777	-0.0790	1.2058	1177	1206	-7.8E-05	-4.2E-05	0.00004	0.0010018	0.0010862
445	0	1.190	-1.9889	1.8154	-0.0805	-0.0828	1.2168	1190	1217	-8.1E-05	-4.3E-05	0.00004	0.0010120	0.0010995
450	0	1.201	-1.9954	1.8181	-0.0832	-0.0847	1.2279	1201	1228	-8.3E-05	-4.5E-05	0.00005	0.0010224	0.0011128
455	0	1.213	-1.9986	1.8369	-0.0749	-0.0769	1.2445	1213	1245	-7.5E-05	-4E-05	0.00004	0.0010379	0.0011193
460	0	1.226	-2.0051	1.8423	-0.0721	-0.0775	1.2556	1226	1256	-7.2E-05	-3.9E-05	0.00004	0.0010483	0.0011266
465	0	1.238	-2.0116	1.8504	-0.0666	-0.0767	1.2722	1238	1272	-6.7E-05	-3.6E-05	0.00004	0.0010638	0.0011361
470	0	1.251	-2.0213	1.8612	-0.0805	-0.0762	1.2832	1251	1283	-8.1E-05	-4.3E-05	0.00004	0.0010740	0.0011615
475	0	1.263	-2.0311	1.8692	-0.0638	-0.0770	1.2888	1263	1289	-6.4E-05	-3.4E-05	0.00003	0.0010793	0.0011486
480	0	1.275	-2.0311	1.8827	-0.0721	-0.0703	1.3053	1275	1305	-7.2E-05	-3.9E-05	0.00004	0.0010730	0.0011730
485	0	1.288	-2.0441	1.8854	-0.0832	-0.0754	1.3164	1288	1316	-8.3E-05	-4.5E-05	0.00005	0.0011050	0.0011954
490	0	1.300	-2.0473	1.8961	-0.0777	-0.0717	1.3275	1300	1328	-7.8E-05	-4.2E-05	0.00004	0.0011154	0.0011998
495	0	1.312	-2.0538	1.9015	-0.0860	-0.0722	1.3440	1312	1344	-8.6E-05	-4.6E-05	0.00005	0.0011308	0.0012242
500	0	1.324	-2.0603	1.9096	-0.0749	-0.0715	1.3551	1324	1355	-7.5E-05	-4E-05	0.00004	0.0011412	0.0012225
505	0	1.337	-2.0668	1.9150	-0.0888	-0.0720	1.3662	1337	1366	-8.9E-05	-4.8E-05	0.00005	0.0011515	0.0012480
510	0	1.349	-2.0733	1.9231	-0.0749	-0.0712	1.3772	1349	1377	-7.5E-05	-4E-05	0.00004	0.0011618	0.0012431
515	0	1.361	-2.0733	1.9311	-0.0805	-0.0672	1.3828	1361	1383	-8.1E-05	-4.3E-05	0.00004	0.0011670	0.0012545
520	0	1.374	-2.0831	1.9338	-0.0777	-0.0707	1.4049	1374	1405	-7.8E-05	-4.2E-05	0.00004	0.0011876	0.0012720
525	0	1.385	-2.0863	1.9473	-0.0943	-0.0656	1.4104	1385	1410	-9.4E-05	-5.1E-05	0.00005	0.0011928	0.0012952
530	0	1.397	-2.0961	1.9527	-0.0749	-0.0678	1.4270	1397	1427	-7.5E-05	-4E-05	0.00004	0.0012083	0.0012896
535	0	1.410	-2.0993	1.9607	-0.0805	-0.0654	1.4326	1410	1433	-8.1E-05	-4.3E-05	0.00004	0.0012135	0.0013009
540	0	1.422	-2.1058	1.9715	-0.0860	-0.0633	1.4491	1422	1449	-8.6E-05	-4.6E-05	0.00005	0.0012289	0.0013223
545	0	1.435	-2.1123	1.9742	-0.0999	-0.0652	1.4657	1435	1466	-1E-04	-5.4E-05	0.00005	0.0012444	0.0013529
550	0	1.447	-2.1123	1.9796	-0.0777	-0.0625	1.4768	1447	1477	-7.8E-05	-4.2E-05	0.00004	0.0012548	0.0013392
555	0	1.459	-2.1123	1.9823	-0.1026	-0.0611	1.4878	1459	1488	-0.0001	-5.5E-05	0.00006	0.0012650	0.0013765
560	0	1.471	-2.1188	1.9930	-0.0888	-0.0590	1.4989	1471	1499	-8.9E-05	-4.8E-05	0.00005	0.0012754	0.0013719
565	0	1.483	-2.1156	1.9984	-0.0860	-0.0547	1.5100	1483	1510	-8.6E-05	-4.6E-05	0.00005	0.0012858	0.0013792
570	0	1.496	-2.1286	2.0092	-0.1026	-0.0558	1.5210	1496	1521	-0.0001	-5.5E-05	0.00006	0.0012960	0.0014075
575	0	1.508	-2.1286	2.0119	-0.0971	-0.0544	1.5376	1508	1538	-9.7E-05	-5.2E-05	0.00005	0.0013115	0.0014170
580	0	1.521	-2.1351	2.0200	-0.0805	-0.0537	1.5487	1521	1549	-8.1E-05	-4.3E-05	0.00004	0.0013219	0.0014093
585	0	1.532	-2.1383	2.0280	-0.0805	-0.0512	1.5598	1532	1560	-8.1E-05	-4.3E-05	0.00004	0.0013222	0.0014197
590	0	1.544	-2.1481	2.0334	-0.0888	-0.0534	1.5708	1544	1571	-8.9E-05	-4.8E-05	0.00005	0.0013425	0.0014390
595	0	1.557	-2.1481	2.0388	-0.0915	-0.0507	1.5874	1557	1587	-9.2E-05	-4.9E-05	0.00005	0.0013580	0.0014574
600	0	1.569	-2.1481	2.0442	-0.0999	-0.0480	1.6040	1569	1604	-1E-04	-5.4E-05	0.00005	0.0013735	0.0014820
605	0	1.570	-2.1513	2.0469	-0.0999	-0.0483	1.5985	1570	1599	-1E-04	-5.4E-05	0.00005	0.0013684	0.0014769
610	0	1.573	-2.1611	2.0469	-0.0832	-0.0532	1.5874	1573	1587	-8.3E-05	-4.5E-05	0.00005	0.0013580	0.0014484
615	0	1.573	-2.1708	2.0442	-0.0999	-0.0594	1.5653	1573	1565	-1E-04	-5.4E-05	0.00005	0.0013374	0.0014459
620	0	1.573	-2.1903	2.0496	-0.0860	-0.0665	1.5542	1573	1554	-8.6E-05	-4.6E-05	0.00005	0.0013270	0.0014204
625	0	1.573	-2.2066	2.0550	-0.0943	-0.0719	1.5432	1573	1543	-9.4E-05	-5.1E-05	0.00005	0.0013167	0.0014192
630	0	1.573	-2.2131	2.0496	-0.0888	-0.0778	1.5321	1573	1532	-8.9E-05	-4.8E-05	0.00005	0.0013064	0.0014029
635	0	1.572	-2.2261	2.0496	-0.1026	-0.0843	1.5155	1572	1516	-0.0001	-5.5E-05	0.00006	0.0012909	0.0014023
640	0	1.573	-2.2391	2.0523	-0.1026	-0.0895	1.5044	1573	1504	-0.0001	-5.5E-05	0.00006	0.0012805	0.0013920
645	0	1.572	-2.2423	2.0496	-0.0888	-0.0925	1.4934	1572	1493	-8.9E-05	-4.8E-05	0.00005	0.0012703	0.0013667
650	0	1.572	-2.2553	2.0496	-0.1054	-0.0990	1.4823	1572	1482	-0.00011	-5.7E-05	0.00006	0.0012599	0.0013744
655	0	1.572	-2.2716	2.0496	-0.0888	-0.1071	1.4713	1572	1471	-8.9E-05	-4.8E-05	0.00005	0.0012496	0.0013461
660	0	1.572	-2.2813	2.0496	-0.0999	-0.1133	1.4547	1572	1455	-1E-04	-5.4E-05	0.00005	0.0012341	0.0013427
665	0	1.572	-2.2911	2.0469	-0.0971	-0.1168	1.4381	1572	1438	-9.7E-05	-5.2E-05	0.00005	0.0012186	0.0013241
670	0	1.572	-2.3041	2.0415	-0.0971	-0.1274	1.4270	1572	1427	-9.7E-05	-5.2E-05	0.00005	0.0012083	0.0013138
675	0	1.572	-2.3171	2.0496	-0.0999	-0.1298	1.4049	1572	1405	-1E-04	-5.4E-05	0.00005	0.0011876	0.0012962
680	0	1.572	-2.3301	2.0442	-0.0943	-0.1390	1.3993	1572	1399	-9.4E-05	-5.1E-05	0.00005	0.0011824	0.0012849
685	0	1.572	-2.3398	2.0442	-0.0943	-0.1439	1.3828	1572	1383	-9.4E-05	-5.1E-05	0.00005	0.0011670	0.0012694
690	0	1.571	-2.3528	2.0469	-0.1137	-0.1491	1.3661	1571	1366	-0.00011	-6.1E-05	0.00006	0.0011514	0.0012749
695	0	1.572	-2.3626	2.0469	-0.1193	-0.1539	1.3606	1572	1361	-0.00012	-6.4E-05	0.00006	0.0011463	0.0012759
700	0	1.572	-2.3691	2.0442	-0.1054	-0.1585	1.3496	1572	1350	-0.00011	-5.7E-05	0.00006	0.0011360	0.0012505
705	0	1.571	-2.3821	2.0415	-0.0971	-0.1664	1.3330	1571	1333	-9.7E-05	-5.2E-05	0.00005	0.0011205	0.0012260
710	0	1.571	-2.3918	2.0388	-0.1165	-0.1726	1.3108	1571	1311	-0.00012	-6.3E-05	0.00006	0.0010998	0.0012264
715	0	1.571	-2.4146	2.0388	-0.0943	-0.1840	1.3053	1571	1305	-9.4E-05	-5.1E-05	0.00005	0.0010947	0.0011971
720	0	1.571	-2.4211	2.0442	-0.1026	-0.1845	1.2887	1571	1289	-0.0001	-5.5E-05	0.00006	0.0010792	0.0011906
725	0	1.571	-2.4341	2.0388	-0.1082	-0.1937	1.2776	1571	1278	-0.00011	-5.8E-05	0.00006	0.0010688	0.0011863
730	0	1.571	-2.4406	2.0415	-0.1054	-0.1956	1.2666	1571	1267	-0.00011	-5.7E-05	0.00006	0.0010585	0.0011730
735	0	1.571	-2.4503	2.0415	-0.0943	-0.2005	1.2500	1571	1250	-9.4E-05	-5.1E-05	0.00005	0.0010430	0.0011455
740	0	1.571	-2.4601	2.0415	-0.1082	-0.2054	1.2334	1571	1233	-0.00011	-5.8E-05	0.00006	0.0010275	0.0011451
745	0	1.571	-2.4698	2.0361	-0.1165	-0.2129	1.2279	1571	1228	-0.00012	-6.3E-05	0.00006	0.0010224	0.0011490
750	0	1.571	-2.4893	2.0388	-0.0999	-0.2213	1.2113	1571	1211	-1E-04	-5.4E-05	0.00005	0.0010069	0.0011154
755	0	1.571	-2.4893	2.0388	-0.1110	-0.2213	1.2002	1571	1200	-0.00011	-6E-05	0.00006	0.0009965	0.0011171
760	0													

865	0	1.570	-2.6876	1.9688	-0.1193	-0.3555	0.9015	1570	902	-0.00012	-6.4E-05	0.00006	0.0007177	0.0008473
870	0	1.570	-2.6941	1.9715	-0.1332	-0.3574	0.8904	1570	890	-0.00013	-7.2E-05	0.00007	0.0007073	0.0008520
875	0	1.570	-2.7006	1.9634	-0.1304	-0.3647	0.8794	1570	879	-0.00013	-7E-05	0.00007	0.0006971	0.0008387
880	0	1.570	-2.7136	1.9634	-0.1276	-0.3712	0.8683	1570	868	-0.00013	-6.9E-05	0.00007	0.0006867	0.0008253
885	0	1.570	-2.7201	1.9527	-0.1443	-0.3798	0.8517	1570	852	-0.00014	-7.8E-05	0.00008	0.0006712	0.0008280
890	0	1.570	-2.7266	1.9527	-0.1221	-0.3830	0.8352	1570	835	-0.00012	-6.6E-05	0.00007	0.0006558	0.0007884
895	0	1.570	-2.7363	1.9527	-0.1332	-0.3879	0.8241	1570	824	-0.00013	-7.2E-05	0.00007	0.0006454	0.0007901
900	0	1.570	-2.7428	1.9473	-0.1332	-0.3939	0.8075	1570	808	-0.00013	-7.2E-05	0.00007	0.0006299	0.0007746
905	0	1.570	-2.7526	1.9419	-0.1443	-0.4014	0.7964	1570	796	-0.00014	-7.8E-05	0.00008	0.0006196	0.0007763
910	0	1.570	-2.7526	1.9446	-0.1304	-0.4001	0.7909	1570	791	-0.00013	-7E-05	0.00007	0.0006145	0.0007561
915	0	1.570	-2.7526	1.9446	-0.1193	-0.4001	0.8075	1570	808	-0.00012	-6.4E-05	0.00006	0.0006299	0.0007595
920	0	1.571	-2.7526	1.9419	-0.1359	-0.4014	0.8296	1571	830	-0.00014	-7.3E-05	0.00007	0.0006506	0.0007982
925	0	1.570	-2.7461	1.9446	-0.1276	-0.3968	0.8407	1570	841	-0.00013	-6.9E-05	0.00007	0.0006609	0.0007996
930	0	1.570	-2.7461	1.9446	-0.1359	-0.3968	0.8573	1570	857	-0.00014	-7.3E-05	0.00007	0.0006764	0.0008241
935	0	1.570	-2.7461	1.9446	-0.1304	-0.3968	0.8628	1570	863	-0.00013	-7E-05	0.00007	0.0006816	0.0008232
940	0	1.570	-2.7363	1.9473	-0.1415	-0.3906	0.8794	1570	879	-0.00014	-7.6E-05	0.00008	0.0006805	0.0008508
945	0	1.570	-2.7233	1.9446	-0.1304	-0.3855	0.8960	1570	896	-0.00013	-7E-05	0.00007	0.0007126	0.0008542
950	0	1.570	-2.7201	1.9500	-0.1359	-0.3811	0.9015	1570	902	-0.00014	-7.3E-05	0.00007	0.0007177	0.0008653
955	0	1.570	-2.7136	1.9473	-0.1332	-0.3792	0.9236	1570	924	-0.00013	-7.2E-05	0.00007	0.0007383	0.0008830
960	0	1.570	-2.7136	1.9446	-0.1415	-0.3806	0.9292	1570	929	-0.00014	-7.6E-05	0.00008	0.0007436	0.0008973
965	0	1.570	-2.7038	1.9473	-0.1304	-0.3744	0.9458	1570	946	-0.00013	-7E-05	0.00007	0.0007591	0.0009007
970	0	1.570	-2.6941	1.9554	-0.1359	-0.3654	0.9568	1570	957	-0.00014	-7.3E-05	0.00007	0.0007693	0.0009170
975	0	1.570	-2.6908	1.9527	-0.1248	-0.3652	0.9734	1570	973	-0.00012	-6.7E-05	0.00007	0.0007848	0.0009204
980	0	1.570	-2.6876	1.9500	-0.1498	-0.3649	0.9900	1570	990	-0.00015	-8.1E-05	0.00008	0.0008003	0.0009630
985	0	1.570	-2.6811	1.9527	-0.1304	-0.3603	0.9955	1570	996	-0.00013	-7E-05	0.00007	0.0008055	0.0009471
990	0	1.570	-2.6778	1.9527	-0.1276	-0.3587	1.0121	1570	1012	-0.00013	-6.9E-05	0.00007	0.0008209	0.0009596
995	0	1.570	-2.6681	1.9554	-0.1359	-0.3524	1.0232	1570	1023	-0.00014	-7.3E-05	0.00007	0.0008313	0.0009789
1000	0	1.570	-2.6486	1.9554	-0.1359	-0.3427	1.0342	1570	1034	-0.00014	-7.3E-05	0.00007	0.0008416	0.0009892
1005	0	1.570	-2.6551	1.9581	-0.1332	-0.3446	1.0453	1570	1045	-0.00013	-7.2E-05	0.00007	0.0008519	0.0009966
1010	0	1.570	-2.6421	1.9554	-0.1415	-0.3394	1.0674	1570	1067	-0.00014	-7.6E-05	0.00008	0.0008726	0.010263
1015	0	1.570	-2.6388	1.9581	-0.1359	-0.3365	1.0785	1570	1079	-0.00014	-7.3E-05	0.00007	0.0008829	0.010306
1020	0	1.570	-2.6323	1.9607	-0.1332	-0.3319	1.0840	1570	1084	-0.00013	-7.2E-05	0.00007	0.0008881	0.010328
1025	0	1.570	-2.6193	1.9554	-0.1470	-0.3281	1.1061	1570	1106	-0.00015	-7.9E-05	0.00008	0.0009087	0.010684
1030	0	1.570	-2.6161	1.9661	-0.1415	-0.3211	1.1172	1570	1117	-0.00014	-7.6E-05	0.00008	0.0009191	0.010728
1035	0	1.570	-2.6063	1.9661	-0.1443	-0.3162	1.1338	1570	1134	-0.00014	-7.8E-05	0.00008	0.0009346	0.010913
1040	0	1.570	-2.6063	1.9688	-0.1276	-0.3148	1.1449	1570	1145	-0.00013	-6.9E-05	0.00007	0.0009449	0.010835
1045	0	1.570	-2.5966	1.9715	-0.1526	-0.3086	1.1614	1570	1161	-0.00015	-8.2E-05	0.00008	0.0009603	0.011261
1050	0	1.570	-2.5933	1.9769	-0.1387	-0.3043	1.1670	1570	1167	-0.00014	-7.5E-05	0.00008	0.0009656	0.011162
1055	0	1.570	-2.5836	1.9796	-0.1415	-0.2981	1.1891	1570	1189	-0.00014	-7.6E-05	0.00008	0.0009862	0.011399
1060	0	1.570	-2.5803	1.9796	-0.1470	-0.2965	1.1946	1570	1195	-0.00015	-7.9E-05	0.00008	0.0009913	0.011510
1065	0	1.570	-2.5738	1.9823	-0.1359	-0.2919	1.2168	1570	1217	-0.00014	-7.3E-05	0.00007	0.0010120	0.011597
1070	0	1.570	-2.5706	1.9904	-0.1387	-0.2862	1.2278	1570	1228	-0.00014	-7.5E-05	0.00008	0.0010223	0.011730
1075	0	1.570	-2.5673	1.9850	-0.1415	-0.2873	1.2444	1570	1244	-0.00014	-7.6E-05	0.00008	0.0010378	0.011915
1080	0	1.570	-2.5576	1.9904	-0.1248	-0.2797	1.2500	1570	1250	-0.00012	-6.7E-05	0.00007	0.0010430	0.011786
1085	0	1.570	-2.5543	1.9957	-0.1276	-0.2754	1.2610	1570	1261	-0.00013	-6.9E-05	0.00007	0.0010533	0.011919
1090	0	1.570	-2.5446	1.9984	-0.1248	-0.2692	1.2776	1570	1278	-0.00012	-6.7E-05	0.00007	0.0010688	0.012044
1095	0	1.570	-2.5446	2.0011	-0.1248	-0.2678	1.2942	1570	1294	-0.00012	-6.7E-05	0.00007	0.0010843	0.012199
1100	0	1.570	-2.5381	2.0011	-0.1443	-0.2646	1.2997	1570	1300	-0.00014	-7.8E-05	0.00008	0.0010894	0.012462
1105	0	1.570	-2.5283	2.0065	-0.1387	-0.2570	1.3219	1570	1322	-0.00014	-7.5E-05	0.00008	0.0011102	0.012608
1110	0	1.570	-2.5186	2.0065	-0.1359	-0.2521	1.3329	1570	1333	-0.00014	-7.3E-05	0.00007	0.0011204	0.012681
1115	0	1.570	-2.5153	2.0173	-0.1332	-0.2451	1.3440	1570	1344	-0.00013	-7.2E-05	0.00007	0.0011308	0.012755
1120	0	1.570	-2.5121	2.0146	-0.1332	-0.2448	1.3606	1570	1361	-0.00013	-7.2E-05	0.00007	0.0011463	0.012910
1125	0	1.570	-2.5088	2.0173	-0.1359	-0.2419	1.3716	1570	1372	-0.00014	-7.3E-05	0.00007	0.0011566	0.013042
1130	0	1.570	-2.5056	2.0173	-0.1276	-0.2402	1.3827	1570	1383	-0.00013	-6.9E-05	0.00007	0.0011659	0.013055
1135	0	1.570	-2.4991	2.0254	-0.1359	-0.2330	1.3938	1570	1394	-0.00014	-7.3E-05	0.00007	0.0011773	0.013249
1140	0	1.570	-2.4958	2.0280	-0.1304	-0.2300	1.4104	1570	1410	-0.00013	-7E-05	0.00007	0.0011928	0.013344
1145	0	1.570	-2.4861	2.0334	-0.1415	-0.2224	1.4269	1570	1427	-0.00014	-7.6E-05	0.00008	0.0012082	0.013619
1150	0	1.570	-2.4861	2.0334	-0.1415	-0.2224	1.4380	1570	1438	-0.00014	-7.6E-05	0.00008	0.0012185	0.013723
1155	0	1.570	-2.4828	2.0361	-0.1443	-0.2194	1.4546	1570	1455	-0.00014	-7.8E-05	0.00008	0.0012340	0.013908
1160	0	1.570	-2.4731	2.0415	-0.1498	-0.2119	1.4657	1570	1466	-0.00015	-8.1E-05	0.00008	0.0012444	0.014071
1165	0	1.569	-2.4698	2.0469	-0.1470	-0.2076	1.4767	1569	1477	-0.00015	-7.9E-05	0.00008	0.0012547	0.014144
1170	0	1.570	-2.4633	2.0442	-0.1415	-0.2057	1.4933	1570	1493	-0.00014	-7.6E-05	0.00008	0.0012702	0.014239
1175	0	1.570	-2.4601	2.0469	-0.1359	-0.2027	1.5044	1570	1504	-0.00014	-7.3E-05	0.00007	0.0012805	0.014282
1180	0	1.570	-2.4471	2.0577	-0.1415	-0.1908	1.5155	1570	1516	-0.00014	-7.6E-05	0.00008	0.0012909	0.014446
1185	0	1.570	-2.4406	2.0577	-0.1415	-0.1876	1.5320	1570	1532	-0.00014	-7.6E-05	0.00008	0.0013063	0.014600
1190	0	1.570	-2.4373	2.0577	-0.1387	-0.1859	1.5486	1570	1549	-0.00014	-7.5E-05	0.00008	0.0013218	0.014725
1195	0	1.570	-2.4373	2.0657	-0.1470	-0.1819	1.5542	1570	1554	-0.00015	-7.9E-05	0.00008	0.0013270	0.014867
1200	0	1.570	-2.4308	2.0657	-0.1276	-0.1786	1.5708	1570	1571	-0.00013	-6.9E-05	0.00007	0.0013425	0.014811
1205	0	1.570	-2.4243	2.0711	-0.1443	-0.1727	1.5818	1570	1582	-0.00014	-7.8E-05	0.00008	0.0013528	0.015095
1210	0	1.570	-2.4178	2.0738	-0.1443	-0.1681	1.5984	1570	1598	-0.00014	-7.8E-05	0.00008	0.0013683	0.015250
1215	0	1.570	-2.4146	2.0738	-0.1415	-0.1665	1.6095	1570	1610	-0.00014	-7.6E-05	0.00008	0.0013786	0.015324
1220	0	1.570	-2.4081	2.0792	-0.1415	-0.1605	1.6205	1570	1621	-0.00014	-7.6E-05	0.00008	0.0013889	0.015426
1225	0	1.570	-2.3983	2.0819	-0.1415	-0.1543	1.6371	1570	1637	-0.00014	-7.6E-05	0.00008	0.0014044	0.015581
1230	0	1.570	-2.3983	2.0819	-0.1387	-0.1543	1.6537	1570	1654	-0.00014	-7.5E-05	0.00008	0.0014199	0.015706
1235	0	1.570	-2.3886	2.0900	-0.1443	-0.1454	1.6648	1570	1665	-0.0001				

1345	0	1.570	-2.2488	2.1573	-0.1415	-0.0419	1.9635	1570	1964	-0.00014	-7.6E-05	0.00008	0.0017091	0.0018628
1350	0	1.570	-2.2456	2.1546	-0.1276	-0.0416	1.9746	1570	1975	-0.00013	-6.9E-05	0.00007	0.0017195	0.0018581
1355	0	1.570	-2.2358	2.1600	-0.1304	-0.0340	1.9801	1570	1980	-0.00013	-7E-05	0.00007	0.0017246	0.0018663
1360	0	1.570	-2.2326	2.1680	-0.1387	-0.0284	1.9967	1570	1997	-0.00014	-7.5E-05	0.00008	0.0017401	0.0018908
1365	0	1.570	-2.2261	2.1707	-0.1415	-0.0238	2.0077	1570	2008	-0.00014	-7.6E-05	0.00008	0.0017504	0.0019041
1370	0	1.570	-2.2163	2.1707	-0.1387	-0.0189	2.0188	1570	2019	-0.00014	-7.5E-05	0.00008	0.0017607	0.0019114
1375	0	1.570	-2.2098	2.1707	-0.1304	-0.0156	2.0354	1570	2035	-0.00013	-7E-05	0.00007	0.0017762	0.0019179
1380	0	1.570	-2.2033	2.1734	-0.1276	-0.0110	2.0520	1570	2052	-0.00013	-6.9E-05	0.00007	0.0017917	0.0019303
1385	0	1.570	-2.1968	2.1788	-0.1443	-0.0051	2.0575	1570	2058	-0.00014	-7.8E-05	0.00008	0.0017969	0.0019536
1390	0	1.570	-2.1903	2.1788	-0.1443	-0.0019	2.0796	1570	2080	-0.00014	-7.8E-05	0.00008	0.0018175	0.0019742
1395	0	1.570	-2.1871	2.1842	-0.1359	0.0025	2.0907	1570	2091	-0.00014	-7.3E-05	0.00007	0.0018279	0.0019755
1400	0	1.570	-2.1806	2.1869	-0.1498	0.0071	2.1073	1570	2107	-0.00015	-8.1E-05	0.00008	0.0018434	0.0020061
1405	0	1.570	-2.1708	2.1896	-0.1443	0.0133	2.1128	1570	2113	-0.00014	-7.8E-05	0.00008	0.0018485	0.0020052
1410	0	1.570	-2.1578	2.1923	-0.1387	0.0211	2.1350	1570	2135	-0.00014	-7.5E-05	0.00008	0.0018692	0.0020199
1415	0	1.570	-2.1578	2.1977	-0.1332	0.0238	2.1460	1570	2146	-0.00013	-7.2E-05	0.00007	0.0018795	0.0020242
1420	0	1.570	-2.1546	2.1977	-0.1359	0.0254	2.1571	1570	2157	-0.00014	-7.3E-05	0.00007	0.0018898	0.0020375
1425	0	1.570	-2.1448	2.2003	-0.1498	0.0317	2.1737	1570	2174	-0.00015	-8.1E-05	0.00008	0.0019053	0.0020681
1430	0	1.570	-2.1351	2.2003	-0.1498	0.0365	2.1902	1570	2190	-0.00015	-8.1E-05	0.00008	0.0019207	0.0020835
1435	0	1.570	-2.1253	2.2111	-0.1248	0.0468	2.1958	1570	2196	-0.00012	-6.7E-05	0.00007	0.0019260	0.0020615
1440	0	1.570	-2.1286	2.2111	-0.1498	0.0452	2.2068	1570	2207	-0.00015	-8.1E-05	0.00008	0.0019362	0.0020990
1445	0	1.570	-2.1221	2.2138	-0.1415	0.0498	2.2290	1570	2229	-0.00014	-7.6E-05	0.00008	0.0019570	0.0021107
1450	0	1.570	-2.1156	2.2165	-0.1443	0.0544	2.2401	1570	2240	-0.00014	-7.8E-05	0.00008	0.0019673	0.0021241
1455	0	1.570	-2.1058	2.2165	-0.1526	0.0592	2.2511	1570	2251	-0.00015	-8.2E-05	0.00008	0.0019776	0.0021434
1460	0	1.570	-2.0993	2.2192	-0.1248	0.0638	2.2733	1570	2273	-0.00012	-6.7E-05	0.00007	0.0019983	0.0021339
1465	0	1.570	-2.0993	2.2219	-0.1304	0.0652	2.2733	1570	2273	-0.00013	-7E-05	0.00007	0.0019983	0.0021400
1470	0	1.570	-2.0961	2.2273	-0.1359	0.0695	2.2898	1570	2290	-0.00014	-7.3E-05	0.00007	0.0020137	0.0021614
1475	0	1.572	-2.0701	2.2246	-0.1387	0.0811	2.3009	1572	2301	-0.00014	-7.5E-05	0.00008	0.0020241	0.0021748
1480	0	1.571	-2.0733	2.2327	-0.1304	0.0836	2.3175	1571	2318	-0.00013	-7E-05	0.00007	0.0020396	0.0021812
1485	0	1.571	-2.0733	2.2327	-0.1359	0.0836	2.3286	1571	2329	-0.00014	-7.3E-05	0.00007	0.0020499	0.0021976
1490	0	1.572	-2.0668	2.2380	-0.1470	0.0895	2.3396	1572	2340	-0.00015	-7.9E-05	0.00008	0.0020602	0.0022199
1495	0	1.572	-2.0571	2.2407	-0.1359	0.0957	2.3562	1572	2356	-0.00014	-7.3E-05	0.00007	0.0020757	0.0022233
1500	0	1.571	-2.0538	2.2434	-0.1387	0.0987	2.3673	1571	2367	-0.00014	-7.5E-05	0.00008	0.0020861	0.0022367
1505	0	1.572	-2.0571	2.2461	-0.1276	0.0984	2.3784	1572	2378	-0.00013	-6.9E-05	0.00007	0.0020964	0.0022350
1510	0	1.572	-2.0473	2.2515	-0.1276	0.1060	2.3894	1572	2389	-0.00013	-6.9E-05	0.00007	0.0021067	0.0022453
1515	0	1.571	-2.0441	2.2515	-0.1526	0.1076	2.3894	1571	2389	-0.00015	-8.2E-05	0.00008	0.0021067	0.0022725
1520	0	1.571	-2.0506	2.2542	-0.1443	0.1057	2.3839	1571	2384	-0.00014	-7.8E-05	0.00008	0.0021016	0.0022583
1525	0	1.571	-2.0571	2.2515	-0.1304	0.1011	2.3673	1571	2367	-0.00013	-7E-05	0.00007	0.0020861	0.0022277
1530	0	1.571	-2.0538	2.2569	-0.1498	0.1054	2.3562	1571	2356	-0.00015	-8.1E-05	0.00008	0.0020757	0.0022384
1535	0	1.571	-2.0636	2.2488	-0.1359	0.0965	2.3507	1571	2351	-0.00014	-7.3E-05	0.00007	0.0020706	0.0022182
1540	0	1.571	-2.0733	2.2569	-0.1332	0.0957	2.3341	1571	2334	-0.00013	-7.2E-05	0.00007	0.0020551	0.0021998
1545	0	1.570	-2.0733	2.2515	-0.1470	0.0930	2.3175	1570	2318	-0.00015	-7.9E-05	0.00008	0.0020396	0.0021993
1550	0	1.570	-2.0766	2.2488	-0.1443	0.0900	2.3064	1570	2306	-0.00014	-7.8E-05	0.00008	0.0020292	0.0021860
1555	0	1.571	-2.0831	2.2515	-0.1554	0.0881	2.2898	1571	2290	-0.00016	-8.4E-05	0.00008	0.0020137	0.0021825
1560	0	1.571	-2.0928	2.2461	-0.1276	0.0805	2.2843	1571	2284	-0.00013	-6.9E-05	0.00007	0.0020086	0.0021472
1565	0	1.572	-2.0798	2.2488	-0.1470	0.0884	2.2566	1572	2257	-0.00015	-7.9E-05	0.00008	0.0019827	0.0021424
1570	0	1.572	-2.0928	2.2488	-0.1387	0.0819	2.2511	1572	2251	-0.00014	-7.5E-05	0.00008	0.0019776	0.0021283
1575	0	1.572	-2.0961	2.2461	-0.1387	0.0789	2.2345	1572	2235	-0.00014	-7.5E-05	0.00008	0.0019621	0.0021128
1580	0	1.572	-2.1026	2.2515	-0.1387	0.0784	2.2235	1572	2224	-0.00014	-7.5E-05	0.00008	0.0019518	0.0021025
1585	0	1.572	-2.1091	2.2488	-0.1276	0.0738	2.2069	1572	2207	-0.00013	-6.9E-05	0.00007	0.0019363	0.0020749
1590	0	1.572	-2.1156	2.2515	-0.1332	0.0719	2.2013	1572	2201	-0.00013	-7.2E-05	0.00007	0.0019311	0.0020758
1595	0	1.572	-2.1221	2.2434	-0.1526	0.0646	2.1792	1572	2179	-0.00015	-8.2E-05	0.00008	0.0019105	0.0020762
1600	0	1.572	-2.1318	2.2461	-0.1276	0.0610	2.1682	1572	2168	-0.00013	-6.9E-05	0.00007	0.0019002	0.0020388
1605	0	1.572	-2.1383	2.2461	-0.1304	0.0578	2.1571	1572	2157	-0.00013	-7E-05	0.00007	0.0018898	0.0020315
1610	0	1.571	-2.1481	2.2461	-0.1498	0.0529	2.1460	1571	2146	-0.00015	-8.1E-05	0.00008	0.0018795	0.0020422
1615	0	1.571	-2.1546	2.2461	-0.1276	0.0497	2.1294	1571	2129	-0.00013	-6.9E-05	0.00007	0.0018640	0.0020026
1620	0	1.570	-2.1546	2.2461	-0.1387	0.0497	2.1184	1570	2118	-0.00014	-7.5E-05	0.00008	0.0018537	0.0020044
1625	0	1.570	-2.1611	2.2407	-0.1470	0.0437	2.1073	1570	2107	-0.00015	-7.9E-05	0.00008	0.0018434	0.0020030
1630	0	1.570	-2.1741	2.2434	-0.1581	0.0386	2.0907	1570	2091	-0.00016	-8.5E-05	0.00009	0.0018279	0.0019996
1635	0	1.570	-2.1806	2.2461	-0.1304	0.0367	2.0797	1570	2080	-0.00013	-7E-05	0.00007	0.0018176	0.0019592
1640	0	1.570	-2.1806	2.2488	-0.1415	0.0380	2.0630	1570	2063	-0.00014	-7.6E-05	0.00008	0.0018020	0.0019557
1645	0	1.569	-2.1936	2.2434	-0.1359	0.0288	2.0520	1569	2052	-0.00014	-7.3E-05	0.00007	0.0017917	0.0019394
1650	0	1.569	-2.2001	2.2407	-0.1470	0.0242	2.0409	1569	2041	-0.00015	-7.9E-05	0.00008	0.0017814	0.0019411
1655	0	1.569	-2.2098	2.2461	-0.1415	0.0220	2.0243	1569	2024	-0.00014	-7.6E-05	0.00008	0.0017659	0.0019196
1660	0	1.569	-2.2131	2.2380	-0.1304	0.0164	2.0022	1569	2002	-0.00013	-7E-05	0.00007	0.0017452	0.0018869
1665	0	1.569	-2.2228	2.2434	-0.1359	0.0142	1.9967	1569	1997	-0.00014	-7.3E-05	0.00007	0.0017401	0.0018877
1670	0	1.569	-2.2293	2.2353	-0.1498	0.0069	1.9856	1569	1986	-0.00015	-8.1E-05	0.00008	0.0017297	0.0018925
1675	0	1.568	-2.2293	2.2327	-0.1387	0.0056	1.9745	1568	1975	-0.00014	-7.5E-05	0.00008	0.0017194	0.0018701
1680	0	1.569	-2.2358	2.2300	-0.1359	0.0010	1.9580	1569	1958	-0.00014	-7.3E-05	0.00007	0.0017040	0.0018516
1685	0	1.568	-2.2391	2.2246	-0.1470	-0.0033	1.9414	1568	1941	-0.00015	-7.9E-05	0.00008	0.0016885	0.0018482
1690	0	1.567	-2.2488	2.2300	-0.1415	-0.0055	1.9303	1567	1930	-0.00014	-7.6E-05	0.00008	0.0016781	0.0018318
1695	0	1.567	-2.2553	2.2273	-0.1498	-0.0101	1.9192	1567	1919	-0.00015	-8.1E-05	0.00008	0.0016678	0.0018305
1700	0	1.567	-2.2586	2.2219	-0.1498	-0.0144	1.9026	1567	1903	-0.00015	-8.1E-05	0.00008	0.0016523	0.0018150
1705	0	1.567	-2.2651	2.2219	-0.1498	-0.0177	1.8916	1567	1892	-0.00015	-8.1E-05	0.00008	0.0016420	0.0018047
1710	0	1.567	-2.2748	2.2219	-0.1526	-0.0226	1.8750	1567	1875	-0.00015	-8.2E-05	0.00008	0.0016265	0.0017923
1715														

Test Type Triaxial
Company Apache Corporation

Diameter sample = 0.9908 inch
Length of the sample = 1.0712 inch
Initial Chord Length (Gap) = 1.3985 inch
Sin(Theta0/2) = 0.880778 unitless
Theta0 = 2.155007 radians
Thickness of rubber = 0.0185 inches
Target Confining Pressure = 1570 psi
Pore Pressure = 0 psi

mass sat = 37.32
mass dry =
Test # 39B
Depth-ft = 5189.47
Well = University Lands 57-65 #1H
Density = 2.76
Job # 121499
Swi = As Received

Plunger Diameter = 2 inch

Pre Stress Test

Time (sec)	Pore Pressure (psi)	Cell Press (ksi)	Axial LVDVT 1	Axial LVDVT 2	Radial LVDVT (mills)	Axial LVDVT Avg (mills)	Axial Stress (psi)
0	0	0.102	-0.0032	0.0108	0.0000	0.0077	0.1327
5	0	0.109	-0.0097	0.0188	0.0083	0.0084	0.1438
10	0	0.119	-0.0227	0.0457	0.0000	0.0154	0.1549
15	0	0.131	-0.0487	0.0995	0.0000	0.0293	0.1715
20	0	0.144	-0.0910	0.1586	-0.0111	0.0377	0.1825
25	0	0.156	-0.1267	0.2123	-0.0111	0.0467	0.1936
30	0	0.170	-0.1625	0.2688	0.0055	0.0571	0.2047
35	0	0.183	-0.1885	0.3172	-0.0139	0.0683	0.2157
40	0	0.195	-0.2112	0.3602	0.0055	0.0784	0.2268
45	0	0.208	-0.2437	0.4140	-0.0028	0.0890	0.2378
50	0	0.220	-0.2697	0.4516	0.0028	0.0948	0.2489
55	0	0.233	-0.2892	0.4892	0.0111	0.1039	0.2600
60	0	0.245	-0.3055	0.5269	-0.0166	0.1146	0.2766
65	0	0.258	-0.3250	0.5672	-0.0139	0.1250	0.2876
70	0	0.269	-0.3477	0.5941	-0.0111	0.1271	0.3042
75	0	0.282	-0.3575	0.6264	-0.0111	0.1384	0.3097
80	0	0.295	-0.3705	0.6506	0.0000	0.1440	0.3263
85	0	0.307	-0.3932	0.6828	-0.0083	0.1487	0.3374
90	0	0.320	-0.4030	0.7070	-0.0139	0.1559	0.3485
95	0	0.332	-0.4257	0.7286	-0.0250	0.1553	0.3650
100	0	0.344	-0.4420	0.7528	-0.0250	0.1593	0.3761
105	0	0.357	-0.4615	0.7850	-0.0250	0.1657	0.3872
110	0	0.369	-0.4875	0.8092	-0.0083	0.1648	0.3982
115	0	0.381	-0.5135	0.8334	-0.0194	0.1639	0.4093
120	0	0.393	-0.5362	0.8496	-0.0083	0.1606	0.4204
125	0	0.405	-0.5622	0.8792	-0.0305	0.1624	0.4314
130	0	0.417	-0.5915	0.9034	-0.0194	0.1599	0.4536
135	0	0.430	-0.6175	0.9249	-0.0361	0.1576	0.4591
140	0	0.442	-0.6467	0.9410	-0.0361	0.1511	0.4757
145	0	0.454	-0.6760	0.9652	-0.0361	0.1485	0.4867
150	0	0.467	-0.7150	0.9840	-0.0166	0.1385	0.4978
155	0	0.479	-0.7540	1.0082	-0.0083	0.1311	0.5033
160	0	0.492	-0.7930	1.0244	-0.0166	0.1196	0.5199
165	0	0.504	-0.8255	1.0513	-0.0277	0.1168	0.5255
170	0	0.516	-0.8612	1.0647	-0.0333	0.1057	0.5476
175	0	0.528	-0.9034	1.0809	-0.0139	0.0926	0.5587
180	0	0.540	-0.9327	1.1051	-0.0333	0.0901	0.5697
185	0	0.552	-0.9782	1.1266	-0.0250	0.0781	0.5752
190	0	0.565	-1.0269	1.1400	-0.0250	0.0605	0.5918
195	0	0.577	-1.0594	1.1643	-0.0166	0.0563	0.6029
200	0	0.589	-1.0984	1.1804	-0.0222	0.0449	0.6195
205	0	0.602	-1.1439	1.1965	-0.0166	0.0302	0.6361
210	0	0.614	-1.1764	1.2181	-0.0444	0.0247	0.6416
215	0	0.625	-1.2122	1.2315	-0.0277	0.0136	0.6582
220	0	0.638	-1.2512	1.2450	-0.0333	0.0008	0.6693
225	0	0.650	-1.2869	1.2611	-0.0333	-0.0090	0.6803
230	0	0.663	-1.3194	1.2799	-0.0527	-0.0158	0.6914
235	0	0.675	-1.3519	1.2988	-0.0499	-0.0227	0.7080
240	0	0.687	-1.3779	1.3122	-0.0527	-0.0289	0.7135
245	0	0.699	-1.4104	1.3284	-0.0444	-0.0371	0.7301
250	0	0.712	-1.4364	1.3472	-0.0416	-0.0407	0.7356
255	0	0.724	-1.4656	1.3579	-0.0361	-0.0499	0.7522
260	0	0.736	-1.4851	1.3714	-0.0499	-0.0530	0.7633
265	0	0.748	-1.5079	1.3849	-0.0583	-0.0576	0.7744
270	0	0.761	-1.5339	1.4064	-0.0416	-0.0598	0.7910
275	0	0.773	-1.5599	1.4198	-0.0472	-0.0661	0.8020
280	0	0.785	-1.5826	1.4360	-0.0472	-0.0694	0.8131
285	0	0.797	-1.6086	1.4494	-0.0555	-0.0757	0.8297
290	0	0.810	-1.6216	1.4602	-0.0610	-0.0768	0.8463
295	0	0.821	-1.6411	1.4790	-0.0333	-0.0771	0.8463
300	0	0.833	-1.6574	1.4925	-0.0416	-0.0785	0.8629
305	0	0.846	-1.6736	1.4979	-0.0388	-0.0840	0.8739
310	0	0.859	-1.6834	1.5140	-0.0416	-0.0808	0.8905
315	0	0.871	-1.6996	1.5275	-0.0583	-0.0822	0.8960
320	0	0.883	-1.7126	1.5382	-0.0693	-0.0833	0.9182
325	0	0.896	-1.7289	1.5544	-0.0555	-0.0833	0.9237
330	0	0.908	-1.7451	1.5678	-0.0499	-0.0847	0.9348
335	0	0.920	-1.7549	1.5813	-0.0583	-0.0829	0.9513
340	0	0.932	-1.7776	1.5947	-0.0472	-0.0875	0.9624
345	0	0.944	-1.7874	1.6028	-0.0721	-0.0884	0.9735
350	0	0.957	-1.7939	1.6136	-0.0721	-0.0862	0.9901
355	0	0.969	-1.8101	1.6270	-0.0749	-0.0876	0.9956
360	0	0.981	-1.8264	1.6351	-0.0721	-0.0917	1.0122
365	0	0.993	-1.8361	1.6485	-0.0666	-0.0899	1.0233
370	0	1.006	-1.8459	1.6539	-0.0721	-0.0921	1.0288
375	0	1.017	-1.8589	1.6701	-0.0721	-0.0905	1.0509
380	0	1.030	-1.8719	1.6889	-0.0638	-0.0876	1.0564

Confining	Axial	Radial	True Radi	Radial	Axial	Volume
Stress	Stress	Deform	Deform	Strain	Strain	Strain
(psi)	psi	in	in	(in/in)	(in/in)	(in ³ /in ³)
102	133	0	0	0.00000	0.0000000	0.0000000
109	144	8.3E-06	4.47E-06	0.00000	0.0000104	0.0000013
119	155	0	0	0.00000	0.0000207	0.0000207
131	172	0	0	0.00000	0.0000362	0.0000362
144	183	-1.1E-05	-6E-06	0.00001	0.0000465	0.0000585
156	194	-1.1E-05	-6E-06	0.00001	0.0000569	0.0000689
170	205	5.5E-06	2.96E-06	0.00000	0.0000672	0.0000612
183	216	-1.4E-05	-7.5E-06	0.00001	0.0000775	0.0000926
195	227	5.5E-06	2.96E-06	0.00000	0.0000878	0.0000819
208	238	-2.8E-06	-1.5E-06	0.00000	0.0000981	0.0001012
220	249	2.8E-06	1.51E-06	0.00000	0.0001085	0.0001055
233	260	1.11E-05	5.97E-06	-0.00001	0.0001188	0.0001068
245	277	-1.7E-05	-8.9E-06	0.00001	0.0001343	0.0001524
258	288	-1.4E-05	-7.5E-06	0.00001	0.0001446	0.0001597
269	304	-1.1E-05	-6E-06	0.00001	0.0001601	0.0001722
282	310	-1.1E-05	-6E-06	0.00001	0.0001652	0.0001773
295	326	0	0	0.00000	0.0001807	0.0001807
307	337	-8.3E-06	-4.5E-06	0.00000	0.0001911	0.0002001
320	349	-1.4E-05	-7.5E-06	0.00001	0.0002015	0.0002166
332	365	-2.5E-05	-1.3E-05	0.00001	0.0002169	0.0002440
344	376	-2.5E-05	-1.3E-05	0.00001	0.0002272	0.0002544
357	387	-2.5E-05	-1.3E-05	0.00001	0.0002376	0.0002647
369	398	-8.3E-06	-4.5E-06	0.00000	0.0002479	0.0002569
381	409	-1.9E-05	-1E-05	0.00001	0.0002582	0.0002793
393	420	-8.3E-06	-4.5E-06	0.00000	0.0002686	0.0002776
405	431	-3.1E-05	-1.6E-05	0.00002	0.0002788	0.0003120
417	454	-1.9E-05	-1E-05	0.00001	0.0002996	0.0003206
430	459	-3.6E-05	-1.9E-05	0.00002	0.0003047	0.0003439
442	476	-3.6E-05	-1.9E-05	0.00002	0.0003202	0.0003594
454	487	-3.6E-05	-1.9E-05	0.00002	0.0003305	0.0003697
467	498	-1.7E-05	-8.9E-06	0.00001	0.0003408	0.0003589
479	503	-8.3E-06	-4.5E-06	0.00000	0.0003460	0.0003550
492	520	-1.7E-05	-8.9E-06	0.00001	0.0003615	0.0003795
504	526	-2.8E-05	-1.5E-05	0.00002	0.0003667	0.0003968
516	548	-3.3E-05	-1.8E-05	0.00002	0.0003873	0.0004235
528	559	-1.4E-05	-7.5E-06	0.00001	0.0003977	0.0004128
540	570	-3.3E-05	-1.8E-05	0.00002	0.0004080	0.0004441
552	575	-2.5E-05	-1.3E-05	0.00001	0.0004131	0.0004402
565	592	-2.5E-05	-1.3E-05	0.00001	0.0004286	0.0004557
577	603	-1.7E-05	-8.9E-06	0.00001	0.0004389	0.0004570
589	620	-2.2E-05	-1.2E-05	0.00001	0.0004544	0.0004786
602	636	-1.7E-05	-8.9E-06	0.00001	0.0004699	0.0004880
614	642	-4.4E-05	-2.4E-05	0.00002	0.0004751	0.0005233
625	658	-2.8E-05	-1.5E-05	0.00002	0.0004906	0.0005207
638	669	-3.3E-05	-1.8E-05	0.00002	0.0005009	0.0005371
650	680	-3.3E-05	-1.8E-05	0.00002	0.0005112	0.0005474
663	691	-5.3E-05	-2.8E-05	0.00003	0.0005216	0.0005788
675	708	-5E-05	-2.7E-05	0.00003	0.0005371	0.0005913
687	714	-5.3E-05	-2.8E-05	0.00003	0.0005422	0.0005994
699	730	-4.4E-05	-2.4E-05	0.00002	0.0005577	0.0006059
712	736	-4.2E-05	-2.2E-05	0.00002	0.0005628	0.0006080
724	752	-3.6E-05	-1.9E-05	0.00002	0.0005783	0.0006175
736	763	-5E-05	-2.7E-05	0.00003	0.0005887	0.0006429
748	774	-5.8E-05	-3.1E-05	0.00003	0.0005990	0.0006624
761	791	-4.2E-05	-2.2E-05	0.00002	0.0006145	0.0006597
773	802	-4.7E-05	-2.5E-05	0.00003	0.0006248	0.0006761
785	813	-4.7E-05	-2.5E-05	0.00003	0.0006352	0.0006864
797	830	-5.6E-05	-3E-05	0.00003	0.0006507	0.0007110
810	846	-6.1E-05	-3.3E-05	0.00003	0.0006662	0.0007324
821	846	-3.3E-05	-1.8E-05	0.00002	0.0006662	0.0007023
833	863	-4.2E-05	-2.2E-05	0.00002	0.0006817	0.0007269
846	874	-3.9E-05	-2.1E-05	0.00002	0.0006919	0.0007341
859	891	-4.2E-05	-2.2E-05	0.00002	0.0007074	0.0007526
871	896	-5.8E-05	-3.1E-05	0.00003	0.0007126	0.0007759
883	918	-6.9E-05	-3.7E-05	0.00004	0.0007334	0.0008086
896	924	-5.6E-05	-3E-05	0.00003	0.0007384	0.0007987
908	935	-5E-05	-2.7E-05	0.00003	0.0007488	0.0008030
920	951	-5.8E-05	-3.1E-05	0.00003	0.0007642	0.0008275
932	962	-4.7E-05	-2.5E-05	0.00003	0.0007746	0.0008258
944	974	-7.2E-05	-3.9E-05	0.00004	0.0007849	0.0008532
957	990	-7.2E-05	-3.9E-05	0.00004	0.0008004	0.0008787
969	996	-7.5E-05	-4E-05	0.00004	0.0008055	0.0008869
981	1012	-7.2E-05	-3.9E-05	0.00004	0.0008210	0.0008994
993	1023	-6.7E-05	-3.6E-05	0.00004	0.0008314	0.0009038
1006	1029	-7.2E-05	-3.9E-05	0.00004	0.0008365	0.0009149
1017	1051	-7.2E-05	-3.9E-05	0.00004	0.0008572	0.0009355
1030	1056	-6.4E-05	-3.4E-05	0.00003	0.0008623	0.0009318

385	0	1.042	-1.8751	1.6916	-0.0583	-0.0878	1.0730	1042	1073	-5.8E-05	-3.1E-05	0.00003	0.0008778	0.0009411
390	0	1.055	-1.8881	1.7024	-0.0749	-0.0890	1.0841	1055	1084	-7.5E-05	-4E-05	0.00004	0.0008882	0.0009695
395	0	1.067	-1.8946	1.7185	-0.0610	-0.0841	1.0952	1067	1095	-6.1E-05	-3.3E-05	0.00003	0.0008985	0.0009648
400	0	1.079	-1.9109	1.7239	-0.0527	-0.0896	1.1062	1079	1106	-5.3E-05	-2.8E-05	0.00003	0.0009088	0.0009660
405	0	1.092	-1.9174	1.7400	-0.0693	-0.0847	1.1228	1092	1123	-6.9E-05	-3.7E-05	0.00004	0.0009243	0.0009996
410	0	1.104	-1.9271	1.7481	-0.0777	-0.0856	1.1339	1104	1134	-7.8E-05	-4.2E-05	0.00004	0.0009347	0.0010191
415	0	1.116	-1.9336	1.7589	-0.0666	-0.0835	1.1449	1116	1145	-6.7E-05	-3.6E-05	0.00004	0.0009449	0.0010173
420	0	1.128	-1.9466	1.7670	-0.0721	-0.0859	1.1560	1128	1156	-7.2E-05	-3.9E-05	0.00004	0.0009553	0.0010336
425	0	1.140	-1.9531	1.7831	-0.0693	-0.0811	1.1671	1140	1167	-6.9E-05	-3.7E-05	0.00004	0.0009656	0.0010409
430	0	1.152	-1.9629	1.7831	-0.0610	-0.0860	1.1837	1152	1184	-6.1E-05	-3.3E-05	0.00003	0.0009811	0.0010474
435	0	1.165	-1.9726	1.7993	-0.0638	-0.0828	1.1892	1165	1189	-6.4E-05	-3.4E-05	0.00003	0.0009863	0.0010556
440	0	1.177	-1.9759	1.8100	-0.0777	-0.0790	1.2058	1177	1206	-7.8E-05	-4.2E-05	0.00004	0.0010018	0.0010862
445	0	1.190	-1.9889	1.8154	-0.0805	-0.0828	1.2168	1190	1217	-8.1E-05	-4.3E-05	0.00004	0.0010120	0.0010995
450	0	1.201	-1.9954	1.8181	-0.0832	-0.0847	1.2279	1201	1228	-8.3E-05	-4.5E-05	0.00005	0.0010224	0.0011128
455	0	1.213	-1.9986	1.8369	-0.0749	-0.0769	1.2445	1213	1245	-7.5E-05	-4E-05	0.00004	0.0010379	0.0011193
460	0	1.226	-2.0051	1.8423	-0.0721	-0.0775	1.2556	1226	1256	-7.2E-05	-3.9E-05	0.00004	0.0010483	0.0011266
465	0	1.238	-2.0116	1.8504	-0.0666	-0.0767	1.2722	1238	1272	-6.7E-05	-3.6E-05	0.00004	0.0010638	0.0011361
470	0	1.251	-2.0213	1.8612	-0.0805	-0.0762	1.2832	1251	1283	-8.1E-05	-4.3E-05	0.00004	0.0010740	0.0011615
475	0	1.263	-2.0311	1.8692	-0.0638	-0.0770	1.2888	1263	1289	-6.4E-05	-3.4E-05	0.00003	0.0010793	0.0011486
480	0	1.275	-2.0311	1.8827	-0.0721	-0.0703	1.3053	1275	1305	-7.2E-05	-3.9E-05	0.00004	0.0010730	0.0011730
485	0	1.288	-2.0441	1.8854	-0.0832	-0.0754	1.3164	1288	1316	-8.3E-05	-4.5E-05	0.00005	0.0011050	0.0011954
490	0	1.300	-2.0473	1.8961	-0.0777	-0.0717	1.3275	1300	1328	-7.8E-05	-4.2E-05	0.00004	0.0011154	0.0011998
495	0	1.312	-2.0538	1.9015	-0.0860	-0.0722	1.3440	1312	1344	-8.6E-05	-4.6E-05	0.00005	0.0011308	0.0012242
500	0	1.324	-2.0603	1.9096	-0.0749	-0.0715	1.3551	1324	1355	-7.5E-05	-4E-05	0.00004	0.0011412	0.0012225
505	0	1.337	-2.0668	1.9150	-0.0888	-0.0720	1.3662	1337	1366	-8.9E-05	-4.8E-05	0.00005	0.0011515	0.0012480
510	0	1.349	-2.0733	1.9231	-0.0749	-0.0712	1.3772	1349	1377	-7.5E-05	-4E-05	0.00004	0.0011618	0.0012431
515	0	1.361	-2.0733	1.9311	-0.0805	-0.0672	1.3828	1361	1383	-8.1E-05	-4.3E-05	0.00004	0.0011670	0.0012545
520	0	1.374	-2.0831	1.9338	-0.0777	-0.0707	1.4049	1374	1405	-7.8E-05	-4.2E-05	0.00004	0.0011876	0.0012720
525	0	1.385	-2.0863	1.9473	-0.0943	-0.0656	1.4104	1385	1410	-9.4E-05	-5.1E-05	0.00005	0.0011928	0.0012952
530	0	1.397	-2.0961	1.9527	-0.0749	-0.0678	1.4270	1397	1427	-7.5E-05	-4E-05	0.00004	0.0012083	0.0012896
535	0	1.410	-2.0993	1.9607	-0.0805	-0.0654	1.4326	1410	1433	-8.1E-05	-4.3E-05	0.00004	0.0012135	0.0013009
540	0	1.422	-2.1058	1.9715	-0.0860	-0.0633	1.4491	1422	1449	-8.6E-05	-4.6E-05	0.00005	0.0012289	0.0013223
545	0	1.435	-2.1123	1.9742	-0.0999	-0.0652	1.4657	1435	1466	-1E-04	-5.4E-05	0.00005	0.0012444	0.0013529
550	0	1.447	-2.1123	1.9796	-0.0777	-0.0625	1.4768	1447	1477	-7.8E-05	-4.2E-05	0.00004	0.0012548	0.0013392
555	0	1.459	-2.1123	1.9823	-0.1026	-0.0611	1.4878	1459	1488	-0.0001	-5.5E-05	0.00006	0.0012650	0.0013765
560	0	1.471	-2.1188	1.9930	-0.0888	-0.0590	1.4989	1471	1499	-8.9E-05	-4.8E-05	0.00005	0.0012754	0.0013719
565	0	1.483	-2.1156	1.9984	-0.0860	-0.0547	1.5100	1483	1510	-8.6E-05	-4.6E-05	0.00005	0.0012858	0.0013792
570	0	1.496	-2.1286	2.0092	-0.1026	-0.0558	1.5210	1496	1521	-0.0001	-5.5E-05	0.00006	0.0012960	0.0014075
575	0	1.508	-2.1286	2.0119	-0.0971	-0.0544	1.5376	1508	1538	-9.7E-05	-5.2E-05	0.00005	0.0013115	0.0014170
580	0	1.521	-2.1351	2.0200	-0.0805	-0.0537	1.5487	1521	1549	-8.1E-05	-4.3E-05	0.00004	0.0013219	0.0014093
585	0	1.532	-2.1383	2.0280	-0.0805	-0.0512	1.5598	1532	1560	-8.1E-05	-4.3E-05	0.00004	0.0013222	0.0014197
590	0	1.544	-2.1481	2.0334	-0.0888	-0.0534	1.5708	1544	1571	-8.9E-05	-4.8E-05	0.00005	0.0013425	0.0014390
595	0	1.557	-2.1481	2.0388	-0.0915	-0.0507	1.5874	1557	1587	-9.2E-05	-4.9E-05	0.00005	0.0013580	0.0014574
600	0	1.569	-2.1481	2.0442	-0.0999	-0.0480	1.6040	1569	1604	-1E-04	-5.4E-05	0.00005	0.0013735	0.0014820
605	0	1.570	-2.1513	2.0469	-0.0999	-0.0483	1.5985	1570	1599	-1E-04	-5.4E-05	0.00005	0.0013684	0.0014769
610	0	1.573	-2.1611	2.0469	-0.0832	-0.0532	1.5874	1573	1587	-8.3E-05	-4.5E-05	0.00005	0.0013580	0.0014484
615	0	1.573	-2.1708	2.0442	-0.0999	-0.0594	1.5653	1573	1565	-1E-04	-5.4E-05	0.00005	0.0013374	0.0014459
620	0	1.573	-2.1903	2.0496	-0.0860	-0.0665	1.5542	1573	1554	-8.6E-05	-4.6E-05	0.00005	0.0013270	0.0014204
625	0	1.573	-2.2066	2.0550	-0.0943	-0.0719	1.5432	1573	1543	-9.4E-05	-5.1E-05	0.00005	0.0013167	0.0014192
630	0	1.573	-2.2131	2.0496	-0.0888	-0.0778	1.5321	1573	1532	-8.9E-05	-4.8E-05	0.00005	0.0013064	0.0014029
635	0	1.572	-2.2261	2.0496	-0.1026	-0.0843	1.5155	1572	1516	-0.0001	-5.5E-05	0.00006	0.0012909	0.0014023
640	0	1.573	-2.2391	2.0523	-0.1026	-0.0895	1.5044	1573	1504	-0.0001	-5.5E-05	0.00006	0.0012805	0.0013920
645	0	1.572	-2.2423	2.0496	-0.0888	-0.0925	1.4934	1572	1493	-8.9E-05	-4.8E-05	0.00005	0.0012703	0.0013667
650	0	1.572	-2.2553	2.0496	-0.1054	-0.0990	1.4823	1572	1482	-0.00011	-5.7E-05	0.00006	0.0012599	0.0013744
655	0	1.572	-2.2716	2.0496	-0.0888	-0.1071	1.4713	1572	1471	-8.9E-05	-4.8E-05	0.00005	0.0012496	0.0013461
660	0	1.572	-2.2813	2.0496	-0.0999	-0.1133	1.4547	1572	1455	-1E-04	-5.4E-05	0.00005	0.0012341	0.0013427
665	0	1.572	-2.2911	2.0469	-0.0971	-0.1168	1.4381	1572	1438	-9.7E-05	-5.2E-05	0.00005	0.0012186	0.0013241
670	0	1.572	-2.3041	2.0415	-0.0971	-0.1274	1.4270	1572	1427	-9.7E-05	-5.2E-05	0.00005	0.0012083	0.0013138
675	0	1.572	-2.3171	2.0496	-0.0999	-0.1298	1.4049	1572	1405	-1E-04	-5.4E-05	0.00005	0.0011876	0.0012962
680	0	1.572	-2.3301	2.0442	-0.0943	-0.1390	1.3993	1572	1399	-9.4E-05	-5.1E-05	0.00005	0.0011824	0.0012849
685	0	1.572	-2.3398	2.0442	-0.0943	-0.1439	1.3828	1572	1383	-9.4E-05	-5.1E-05	0.00005	0.0011670	0.0012694
690	0	1.571	-2.3528	2.0469	-0.1137	-0.1491	1.3661	1571	1366	-0.00011	-6.1E-05	0.00006	0.0011514	0.0012749
695	0	1.572	-2.3626	2.0469	-0.1193	-0.1539	1.3606	1572	1361	-0.00012	-6.4E-05	0.00006	0.0011463	0.0012759
700	0	1.572	-2.3691	2.0442	-0.1054	-0.1585	1.3496	1572	1350	-0.00011	-5.7E-05	0.00006	0.0011360	0.0012505
705	0	1.571	-2.3821	2.0415	-0.0971	-0.1664	1.3330	1571	1333	-9.7E-05	-5.2E-05	0.00005	0.0011205	0.0012260
710	0	1.571	-2.3918	2.0388	-0.1165	-0.1726	1.3108	1571	1311	-0.00012	-6.3E-05	0.00006	0.0010998	0.0012264
715	0	1.571	-2.4146	2.0388	-0.0943	-0.1840	1.3053	1571	1305	-9.4E-05	-5.1E-05	0.00005	0.0010947	0.0011971
720	0	1.571	-2.4211	2.0442	-0.1026	-0.1845	1.2887	1571	1289	-0.0001	-5.5E-05	0.00006	0.0010792	0.0011906
725	0	1.571	-2.4341	2.0388	-0.1082	-0.1937	1.2776	1571	1278	-0.00011	-5.8E-05	0.00006	0.0010688	0.0011863
730	0	1.571	-2.4406	2.0415	-0.1054	-0.1956	1.2666	1571	1267	-0.00011	-5.7E-05	0.00006	0.0010585	0.0011730
735	0	1.571	-2.4503	2.0415	-0.0943	-0.2005	1.2500	1571	1250	-9.4E-05	-5.1E-05	0.00005	0.0010430	0.0011455
740	0	1.571	-2.4601	2.0415	-0.1082	-0.2054	1.2334	1571	1233	-0.00011	-5.8E-05	0.00006	0.0010275	0.0011451
745	0	1.571	-2.4698	2.0361	-0.1165	-0.2129	1.2279	1571	1228	-0.00012	-6.3E-05	0.00006	0.0010224	0.0011490
750	0	1.571	-2.4893	2.0388	-0.0999	-0.2213	1.2113	1571	1211	-1E-04	-5.4E-05	0.00005	0.0010069	0.0011154
755	0	1.571	-2.4893	2.0388	-0.1110	-0.2213	1.2002	1571	1200	-0.00011	-6E-05	0.00006	0.0009965	0.0011171
760	0													

865	0	1.570	-2.6876	1.9688	-0.1193	-0.3555	0.9015	1570	902	-0.00012	-6.4E-05	0.00006	0.0007177	0.0008473
870	0	1.570	-2.6941	1.9715	-0.1332	-0.3574	0.8904	1570	890	-0.00013	-7.2E-05	0.00007	0.0007073	0.0008520
875	0	1.570	-2.7006	1.9634	-0.1304	-0.3647	0.8794	1570	879	-0.00013	-7E-05	0.00007	0.0006971	0.0008387
880	0	1.570	-2.7136	1.9634	-0.1276	-0.3712	0.8683	1570	868	-0.00013	-6.9E-05	0.00007	0.0006867	0.0008253
885	0	1.570	-2.7201	1.9527	-0.1443	-0.3798	0.8517	1570	852	-0.00014	-7.8E-05	0.00008	0.0006712	0.0008280
890	0	1.570	-2.7266	1.9527	-0.1221	-0.3830	0.8352	1570	835	-0.00012	-6.6E-05	0.00007	0.0006558	0.0007884
895	0	1.570	-2.7363	1.9527	-0.1332	-0.3879	0.8241	1570	824	-0.00013	-7.2E-05	0.00007	0.0006454	0.0007901
900	0	1.570	-2.7428	1.9473	-0.1332	-0.3939	0.8075	1570	808	-0.00013	-7.2E-05	0.00007	0.0006299	0.0007746
905	0	1.570	-2.7526	1.9419	-0.1443	-0.4014	0.7964	1570	796	-0.00014	-7.8E-05	0.00008	0.0006196	0.0007763
910	0	1.570	-2.7526	1.9446	-0.1304	-0.4001	0.7909	1570	791	-0.00013	-7E-05	0.00007	0.0006145	0.0007561
915	0	1.570	-2.7526	1.9446	-0.1193	-0.4001	0.8075	1570	808	-0.00012	-6.4E-05	0.00006	0.0006299	0.0007595
920	0	1.571	-2.7526	1.9419	-0.1359	-0.4014	0.8296	1571	830	-0.00014	-7.3E-05	0.00007	0.0006506	0.0007982
925	0	1.570	-2.7461	1.9446	-0.1276	-0.3968	0.8407	1570	841	-0.00013	-6.9E-05	0.00007	0.0006609	0.0007996
930	0	1.570	-2.7461	1.9446	-0.1359	-0.3968	0.8573	1570	857	-0.00014	-7.3E-05	0.00007	0.0006764	0.0008241
935	0	1.570	-2.7461	1.9446	-0.1304	-0.3968	0.8628	1570	863	-0.00013	-7E-05	0.00007	0.0006816	0.0008232
940	0	1.570	-2.7363	1.9473	-0.1415	-0.3906	0.8794	1570	879	-0.00014	-7.6E-05	0.00008	0.0006805	0.0008508
945	0	1.570	-2.7233	1.9446	-0.1304	-0.3855	0.8960	1570	896	-0.00013	-7E-05	0.00007	0.0007126	0.0008542
950	0	1.570	-2.7201	1.9500	-0.1359	-0.3811	0.9015	1570	902	-0.00014	-7.3E-05	0.00007	0.0007177	0.0008653
955	0	1.570	-2.7136	1.9473	-0.1332	-0.3792	0.9236	1570	924	-0.00013	-7.2E-05	0.00007	0.0007383	0.0008830
960	0	1.570	-2.7136	1.9446	-0.1415	-0.3806	0.9292	1570	929	-0.00014	-7.6E-05	0.00008	0.0007436	0.0008973
965	0	1.570	-2.7038	1.9473	-0.1304	-0.3744	0.9458	1570	946	-0.00013	-7E-05	0.00007	0.0007591	0.0009007
970	0	1.570	-2.6941	1.9554	-0.1359	-0.3654	0.9568	1570	957	-0.00014	-7.3E-05	0.00007	0.0007693	0.0009170
975	0	1.570	-2.6908	1.9527	-0.1248	-0.3652	0.9734	1570	973	-0.00012	-6.7E-05	0.00007	0.0007848	0.0009204
980	0	1.570	-2.6876	1.9500	-0.1498	-0.3649	0.9900	1570	990	-0.00015	-8.1E-05	0.00008	0.0008003	0.0009630
985	0	1.570	-2.6811	1.9527	-0.1304	-0.3603	0.9955	1570	996	-0.00013	-7E-05	0.00007	0.0008055	0.0009471
990	0	1.570	-2.6778	1.9527	-0.1276	-0.3587	1.0121	1570	1012	-0.00013	-6.9E-05	0.00007	0.0008209	0.0009596
995	0	1.570	-2.6681	1.9554	-0.1359	-0.3524	1.0232	1570	1023	-0.00014	-7.3E-05	0.00007	0.0008313	0.0009789
1000	0	1.570	-2.6486	1.9554	-0.1359	-0.3427	1.0342	1570	1034	-0.00014	-7.3E-05	0.00007	0.0008416	0.0009892
1005	0	1.570	-2.6551	1.9581	-0.1332	-0.3446	1.0453	1570	1045	-0.00013	-7.2E-05	0.00007	0.0008519	0.0009966
1010	0	1.570	-2.6421	1.9554	-0.1415	-0.3394	1.0674	1570	1067	-0.00014	-7.6E-05	0.00008	0.0008726	0.01010263
1015	0	1.570	-2.6388	1.9581	-0.1359	-0.3365	1.0785	1570	1079	-0.00014	-7.3E-05	0.00007	0.0008829	0.01010306
1020	0	1.570	-2.6323	1.9607	-0.1332	-0.3319	1.0840	1570	1084	-0.00013	-7.2E-05	0.00007	0.0008881	0.01010328
1025	0	1.570	-2.6193	1.9554	-0.1470	-0.3281	1.1061	1570	1106	-0.00015	-7.9E-05	0.00008	0.0009087	0.01010684
1030	0	1.570	-2.6161	1.9661	-0.1415	-0.3211	1.1172	1570	1117	-0.00014	-7.6E-05	0.00008	0.0009191	0.01010728
1035	0	1.570	-2.6063	1.9661	-0.1443	-0.3162	1.1338	1570	1134	-0.00014	-7.8E-05	0.00008	0.0009346	0.01010913
1040	0	1.570	-2.6063	1.9688	-0.1276	-0.3148	1.1449	1570	1145	-0.00013	-6.9E-05	0.00007	0.0009449	0.01010835
1045	0	1.570	-2.5966	1.9715	-0.1526	-0.3086	1.1614	1570	1161	-0.00015	-8.2E-05	0.00008	0.0009603	0.01011261
1050	0	1.570	-2.5933	1.9769	-0.1387	-0.3043	1.1670	1570	1167	-0.00014	-7.5E-05	0.00008	0.0009656	0.01011162
1055	0	1.570	-2.5836	1.9796	-0.1415	-0.2981	1.1891	1570	1189	-0.00014	-7.6E-05	0.00008	0.0009862	0.01011399
1060	0	1.570	-2.5803	1.9796	-0.1470	-0.2965	1.1946	1570	1195	-0.00015	-7.9E-05	0.00008	0.0009913	0.01011510
1065	0	1.570	-2.5738	1.9823	-0.1359	-0.2919	1.2168	1570	1217	-0.00014	-7.3E-05	0.00007	0.01010120	0.01011597
1070	0	1.570	-2.5706	1.9904	-0.1387	-0.2862	1.2278	1570	1228	-0.00014	-7.5E-05	0.00008	0.01010223	0.01011730
1075	0	1.570	-2.5673	1.9850	-0.1415	-0.2873	1.2444	1570	1244	-0.00014	-7.6E-05	0.00008	0.01010378	0.01011915
1080	0	1.570	-2.5576	1.9904	-0.1248	-0.2797	1.2500	1570	1250	-0.00012	-6.7E-05	0.00007	0.01010430	0.01011786
1085	0	1.570	-2.5543	1.9957	-0.1276	-0.2754	1.2610	1570	1261	-0.00013	-6.9E-05	0.00007	0.01010533	0.01011919
1090	0	1.570	-2.5446	1.9984	-0.1248	-0.2692	1.2776	1570	1278	-0.00012	-6.7E-05	0.00007	0.01010688	0.01012044
1095	0	1.570	-2.5446	2.0011	-0.1248	-0.2678	1.2942	1570	1294	-0.00012	-6.7E-05	0.00007	0.01010843	0.01012199
1100	0	1.570	-2.5381	2.0011	-0.1443	-0.2646	1.2997	1570	1300	-0.00014	-7.8E-05	0.00008	0.01010894	0.01012462
1105	0	1.570	-2.5283	2.0065	-0.1387	-0.2570	1.3219	1570	1322	-0.00014	-7.5E-05	0.00008	0.01011102	0.01012608
1110	0	1.570	-2.5186	2.0065	-0.1359	-0.2521	1.3329	1570	1333	-0.00014	-7.3E-05	0.00007	0.01011204	0.01012681
1115	0	1.570	-2.5153	2.0173	-0.1332	-0.2451	1.3440	1570	1344	-0.00013	-7.2E-05	0.00007	0.01011308	0.01012755
1120	0	1.570	-2.5121	2.0146	-0.1332	-0.2448	1.3606	1570	1361	-0.00013	-7.2E-05	0.00007	0.01011463	0.01012910
1125	0	1.570	-2.5088	2.0173	-0.1359	-0.2419	1.3716	1570	1372	-0.00014	-7.3E-05	0.00007	0.01011566	0.01013042
1130	0	1.570	-2.5056	2.0173	-0.1276	-0.2402	1.3827	1570	1383	-0.00013	-6.9E-05	0.00007	0.01011659	0.01013055
1135	0	1.570	-2.4991	2.0254	-0.1359	-0.2330	1.3938	1570	1394	-0.00014	-7.3E-05	0.00007	0.01011773	0.01013249
1140	0	1.570	-2.4958	2.0280	-0.1304	-0.2300	1.4104	1570	1410	-0.00013	-7E-05	0.00007	0.01011928	0.01013344
1145	0	1.570	-2.4861	2.0334	-0.1415	-0.2224	1.4269	1570	1427	-0.00014	-7.6E-05	0.00008	0.01012082	0.01013619
1150	0	1.570	-2.4861	2.0334	-0.1415	-0.2224	1.4380	1570	1438	-0.00014	-7.6E-05	0.00008	0.01012185	0.01013723
1155	0	1.570	-2.4828	2.0361	-0.1443	-0.2194	1.4546	1570	1455	-0.00014	-7.8E-05	0.00008	0.01012340	0.01013908
1160	0	1.570	-2.4731	2.0415	-0.1498	-0.2119	1.4657	1570	1466	-0.00015	-8.1E-05	0.00008	0.01012444	0.01014071
1165	0	1.569	-2.4698	2.0469	-0.1470	-0.2076	1.4767	1569	1477	-0.00015	-7.9E-05	0.00008	0.01012547	0.01014144
1170	0	1.570	-2.4633	2.0442	-0.1415	-0.2057	1.4933	1570	1493	-0.00014	-7.6E-05	0.00008	0.01012702	0.01014239
1175	0	1.570	-2.4601	2.0469	-0.1359	-0.2027	1.5044	1570	1504	-0.00014	-7.3E-05	0.00007	0.01012805	0.01014282
1180	0	1.570	-2.4471	2.0577	-0.1415	-0.1908	1.5155	1570	1516	-0.00014	-7.6E-05	0.00008	0.01012909	0.01014446
1185	0	1.570	-2.4406	2.0577	-0.1415	-0.1876	1.5320	1570	1532	-0.00014	-7.6E-05	0.00008	0.01013063	0.01014600
1190	0	1.570	-2.4373	2.0577	-0.1387	-0.1859	1.5486	1570	1549	-0.00014	-7.5E-05	0.00008	0.01013218	0.01014725
1195	0	1.570	-2.4373	2.0657	-0.1470	-0.1819	1.5542	1570	1554	-0.00015	-7.9E-05	0.00008	0.01013270	0.01014867
1200	0	1.570	-2.4308	2.0657	-0.1276	-0.1786	1.5708	1570	1571	-0.00013	-6.9E-05	0.00007	0.01013425	0.01014811
1205	0	1.570	-2.4243	2.0711	-0.1443	-0.1727	1.5818	1570	1582	-0.00014	-7.8E-05	0.00008	0.01013528	0.01015095
1210	0	1.570	-2.4178	2.0738	-0.1443	-0.1681	1.5984	1570	1598	-0.00014	-7.8E-05	0.00008	0.01013683	0.01015250
1215	0	1.570	-2.4146	2.0738	-0.1415	-0.1665	1.6095	1570	1610	-0.00014	-7.6E-05	0.00008	0.01013786	0.01015324
1220	0	1.570	-2.4081	2.0792	-0.1415	-0.1605	1.6205	1570	1621	-0.00014	-7.6E-05	0.00008	0.01013889	0.01015426
1225	0	1.570	-2.3983	2.0819	-0.1415	-0.1543	1.6371	1570	1637	-0.00014	-7.6E-05	0.00008	0.01014044	0.01015581
1230	0	1.570	-2.3983	2.0819	-0.1387	-0.1543	1.6537	1570	1654	-0.00014	-7.5E-05	0.00008	0.01014199	

1345	0	1.570	-2.2488	2.1573	-0.1415	-0.0419	1.9635	1570	1964	-0.00014	-7.6E-05	0.00008	0.0017091	0.0018628
1350	0	1.570	-2.2456	2.1546	-0.1276	-0.0416	1.9746	1570	1975	-0.00013	-6.9E-05	0.00007	0.0017195	0.0018581
1355	0	1.570	-2.2358	2.1600	-0.1304	-0.0340	1.9801	1570	1980	-0.00013	-7E-05	0.00007	0.0017246	0.0018663
1360	0	1.570	-2.2326	2.1680	-0.1387	-0.0284	1.9967	1570	1997	-0.00014	-7.5E-05	0.00008	0.0017401	0.0018908
1365	0	1.570	-2.2261	2.1707	-0.1415	-0.0238	2.0077	1570	2008	-0.00014	-7.6E-05	0.00008	0.0017504	0.0019041
1370	0	1.570	-2.2163	2.1707	-0.1387	-0.0189	2.0188	1570	2019	-0.00014	-7.5E-05	0.00008	0.0017607	0.0019114
1375	0	1.570	-2.2098	2.1707	-0.1304	-0.0156	2.0354	1570	2035	-0.00013	-7E-05	0.00007	0.0017762	0.0019179
1380	0	1.570	-2.2033	2.1734	-0.1276	-0.0110	2.0520	1570	2052	-0.00013	-6.9E-05	0.00007	0.0017917	0.0019303
1385	0	1.570	-2.1968	2.1788	-0.1443	-0.0051	2.0575	1570	2058	-0.00014	-7.8E-05	0.00008	0.0017969	0.0019536
1390	0	1.570	-2.1903	2.1788	-0.1443	-0.0019	2.0796	1570	2080	-0.00014	-7.8E-05	0.00008	0.0018175	0.0019742
1395	0	1.570	-2.1871	2.1842	-0.1359	0.0025	2.0907	1570	2091	-0.00014	-7.3E-05	0.00007	0.0018279	0.0019755
1400	0	1.570	-2.1806	2.1869	-0.1498	0.0071	2.1073	1570	2107	-0.00015	-8.1E-05	0.00008	0.0018434	0.0020061
1405	0	1.570	-2.1708	2.1896	-0.1443	0.0133	2.1128	1570	2113	-0.00014	-7.8E-05	0.00008	0.0018485	0.0020052
1410	0	1.570	-2.1578	2.1923	-0.1387	0.0211	2.1350	1570	2135	-0.00014	-7.5E-05	0.00008	0.0018692	0.0020199
1415	0	1.570	-2.1578	2.1977	-0.1332	0.0238	2.1460	1570	2146	-0.00013	-7.2E-05	0.00007	0.0018795	0.0020242
1420	0	1.570	-2.1546	2.1977	-0.1359	0.0254	2.1571	1570	2157	-0.00014	-7.3E-05	0.00007	0.0018898	0.0020375
1425	0	1.570	-2.1448	2.2003	-0.1498	0.0317	2.1737	1570	2174	-0.00015	-8.1E-05	0.00008	0.0019053	0.0020681
1430	0	1.570	-2.1351	2.2003	-0.1498	0.0365	2.1902	1570	2190	-0.00015	-8.1E-05	0.00008	0.0019207	0.0020835
1435	0	1.570	-2.1253	2.2111	-0.1248	0.0468	2.1958	1570	2196	-0.00012	-6.7E-05	0.00007	0.0019260	0.0020615
1440	0	1.570	-2.1286	2.2111	-0.1498	0.0452	2.2068	1570	2207	-0.00015	-8.1E-05	0.00008	0.0019362	0.0020990
1445	0	1.570	-2.1221	2.2138	-0.1415	0.0498	2.2290	1570	2229	-0.00014	-7.6E-05	0.00008	0.0019570	0.0021107
1450	0	1.570	-2.1156	2.2165	-0.1443	0.0544	2.2401	1570	2240	-0.00014	-7.8E-05	0.00008	0.0019673	0.0021241
1455	0	1.570	-2.1058	2.2165	-0.1526	0.0592	2.2511	1570	2251	-0.00015	-8.2E-05	0.00008	0.0019776	0.0021434
1460	0	1.570	-2.0993	2.2192	-0.1248	0.0638	2.2733	1570	2273	-0.00012	-6.7E-05	0.00007	0.0019983	0.0021339
1465	0	1.570	-2.0993	2.2219	-0.1304	0.0652	2.2733	1570	2273	-0.00013	-7E-05	0.00007	0.0019983	0.0021400
1470	0	1.570	-2.0961	2.2273	-0.1359	0.0695	2.2898	1570	2290	-0.00014	-7.3E-05	0.00007	0.0020137	0.0021614
1475	0	1.572	-2.0701	2.2246	-0.1387	0.0811	2.3009	1572	2301	-0.00014	-7.5E-05	0.00008	0.0020241	0.0021748
1480	0	1.571	-2.0733	2.2327	-0.1304	0.0836	2.3175	1571	2318	-0.00013	-7E-05	0.00007	0.0020396	0.0021812
1485	0	1.571	-2.0733	2.2327	-0.1359	0.0836	2.3286	1571	2329	-0.00014	-7.3E-05	0.00007	0.0020499	0.0021976
1490	0	1.572	-2.0668	2.2380	-0.1470	0.0895	2.3396	1572	2340	-0.00015	-7.9E-05	0.00008	0.0020602	0.0022199
1495	0	1.572	-2.0571	2.2407	-0.1359	0.0957	2.3562	1572	2356	-0.00014	-7.3E-05	0.00007	0.0020757	0.0022233
1500	0	1.571	-2.0538	2.2434	-0.1387	0.0987	2.3673	1571	2367	-0.00014	-7.5E-05	0.00008	0.0020861	0.0022367
1505	0	1.572	-2.0571	2.2461	-0.1276	0.0984	2.3784	1572	2378	-0.00013	-6.9E-05	0.00007	0.0020964	0.0022350
1510	0	1.572	-2.0473	2.2515	-0.1276	0.1060	2.3894	1572	2389	-0.00013	-6.9E-05	0.00007	0.0021067	0.0022453
1515	0	1.571	-2.0441	2.2515	-0.1526	0.1076	2.3894	1571	2389	-0.00015	-8.2E-05	0.00008	0.0021067	0.0022725
1520	0	1.571	-2.0506	2.2542	-0.1443	0.1057	2.3839	1571	2384	-0.00014	-7.8E-05	0.00008	0.0021016	0.0022583
1525	0	1.571	-2.0571	2.2515	-0.1304	0.1011	2.3673	1571	2367	-0.00013	-7E-05	0.00007	0.0020861	0.0022277
1530	0	1.571	-2.0538	2.2569	-0.1498	0.1054	2.3562	1571	2356	-0.00015	-8.1E-05	0.00008	0.0020757	0.0022384
1535	0	1.571	-2.0636	2.2488	-0.1359	0.0965	2.3507	1571	2351	-0.00014	-7.3E-05	0.00007	0.0020706	0.0022182
1540	0	1.571	-2.0733	2.2569	-0.1332	0.0957	2.3341	1571	2334	-0.00013	-7.2E-05	0.00007	0.0020551	0.0021998
1545	0	1.570	-2.0733	2.2515	-0.1470	0.0930	2.3175	1570	2318	-0.00015	-7.9E-05	0.00008	0.0020396	0.0021993
1550	0	1.570	-2.0766	2.2488	-0.1443	0.0900	2.3064	1570	2306	-0.00014	-7.8E-05	0.00008	0.0020292	0.0021860
1555	0	1.571	-2.0831	2.2515	-0.1554	0.0881	2.2898	1571	2290	-0.00016	-8.4E-05	0.00008	0.0020137	0.0021825
1560	0	1.571	-2.0928	2.2461	-0.1276	0.0805	2.2843	1571	2284	-0.00013	-6.9E-05	0.00007	0.0020086	0.0021472
1565	0	1.572	-2.0798	2.2488	-0.1470	0.0884	2.2566	1572	2257	-0.00015	-7.9E-05	0.00008	0.0019827	0.0021424
1570	0	1.572	-2.0928	2.2488	-0.1387	0.0819	2.2511	1572	2251	-0.00014	-7.5E-05	0.00008	0.0019776	0.0021283
1575	0	1.572	-2.0961	2.2461	-0.1387	0.0789	2.2345	1572	2235	-0.00014	-7.5E-05	0.00008	0.0019621	0.0021128
1580	0	1.572	-2.1026	2.2515	-0.1387	0.0784	2.2235	1572	2224	-0.00014	-7.5E-05	0.00008	0.0019518	0.0021025
1585	0	1.572	-2.1091	2.2488	-0.1276	0.0738	2.2069	1572	2207	-0.00013	-6.9E-05	0.00007	0.0019363	0.0020749
1590	0	1.572	-2.1156	2.2515	-0.1332	0.0719	2.2013	1572	2201	-0.00013	-7.2E-05	0.00007	0.0019311	0.0020758
1595	0	1.572	-2.1221	2.2434	-0.1526	0.0646	2.1792	1572	2179	-0.00015	-8.2E-05	0.00008	0.0019105	0.0020762
1600	0	1.572	-2.1318	2.2461	-0.1276	0.0610	2.1682	1572	2168	-0.00013	-6.9E-05	0.00007	0.0019002	0.0020388
1605	0	1.572	-2.1383	2.2461	-0.1304	0.0578	2.1571	1572	2157	-0.00013	-7E-05	0.00007	0.0018898	0.0020315
1610	0	1.571	-2.1481	2.2461	-0.1498	0.0529	2.1460	1571	2146	-0.00015	-8.1E-05	0.00008	0.0018795	0.0020422
1615	0	1.571	-2.1546	2.2461	-0.1276	0.0497	2.1294	1571	2129	-0.00013	-6.9E-05	0.00007	0.0018640	0.0020026
1620	0	1.570	-2.1546	2.2461	-0.1387	0.0497	2.1184	1570	2118	-0.00014	-7.5E-05	0.00008	0.0018537	0.0020044
1625	0	1.570	-2.1611	2.2407	-0.1470	0.0437	2.1073	1570	2107	-0.00015	-7.9E-05	0.00008	0.0018434	0.0020030
1630	0	1.570	-2.1741	2.2434	-0.1581	0.0386	2.0907	1570	2091	-0.00016	-8.5E-05	0.00009	0.0018279	0.0019996
1635	0	1.570	-2.1806	2.2461	-0.1304	0.0367	2.0797	1570	2080	-0.00013	-7E-05	0.00007	0.0018176	0.0019592
1640	0	1.570	-2.1806	2.2488	-0.1415	0.0380	2.0630	1570	2063	-0.00014	-7.6E-05	0.00008	0.0018020	0.0019557
1645	0	1.569	-2.1936	2.2434	-0.1359	0.0288	2.0520	1569	2052	-0.00014	-7.3E-05	0.00007	0.0017917	0.0019394
1650	0	1.569	-2.2001	2.2407	-0.1470	0.0242	2.0409	1569	2041	-0.00015	-7.9E-05	0.00008	0.0017814	0.0019411
1655	0	1.569	-2.2098	2.2461	-0.1415	0.0220	2.0243	1569	2024	-0.00014	-7.6E-05	0.00008	0.0017659	0.0019196
1660	0	1.569	-2.2131	2.2380	-0.1304	0.0164	2.0022	1569	2002	-0.00013	-7E-05	0.00007	0.0017452	0.0018869
1665	0	1.569	-2.2228	2.2434	-0.1359	0.0142	1.9967	1569	1997	-0.00014	-7.3E-05	0.00007	0.0017401	0.0018877
1670	0	1.569	-2.2293	2.2353	-0.1498	0.0069	1.9856	1569	1986	-0.00015	-8.1E-05	0.00008	0.0017297	0.0018925
1675	0	1.568	-2.2293	2.2327	-0.1387	0.0056	1.9745	1568	1975	-0.00014	-7.5E-05	0.00008	0.0017194	0.0018701
1680	0	1.569	-2.2358	2.2300	-0.1359	0.0010	1.9580	1569	1958	-0.00014	-7.3E-05	0.00007	0.0017040	0.0018516
1685	0	1.568	-2.2391	2.2246	-0.1470	-0.0033	1.9414	1568	1941	-0.00015	-7.9E-05	0.00008	0.0016885	0.0018482
1690	0	1.567	-2.2488	2.2300	-0.1415	-0.0055	1.9303	1567	1930	-0.00014	-7.6E-05	0.00008	0.0016781	0.0018318
1695	0	1.567	-2.2553	2.2273	-0.1498	-0.0101	1.9192	1567	1919	-0.00015	-8.1E-05	0.00008	0.0016678	0.0018305
1700	0	1.567	-2.2586	2.2219	-0.1498	-0.0144	1.9026	1567	1903	-0.00015	-8.1E-05	0.00008	0.0016523	0.0018150
1705	0	1.567	-2.2651	2.2219	-0.1498	-0.0177	1.8916	1567	1892	-0.00015	-8.1E-05	0.00008	0.0016420	0.0018047
1710	0	1.567	-2.2748	2.2219	-0.1526	-0.0226	1.8750	1567	1875	-0.00015	-8.2E-05	0.00008	0.0016265	0.0017923
1715														

Test Type Triaxial
Company Apache Corporation

Diameter sample = 0.9908 inch
Length of the sample = 1.0712 inch
Initial Chord Length (Gap) = 1.3985 inch
Sin(Theta/2) = 0.881 unitless
Theta0 = 2.155 radians
Thickness of rubber = 0.0185 inches
Target Confining Pressure = 1570 psi
Pore Pressure = 0 psi

mass sat = 37.32
mass dry =
Test # 39B
Depth-ft = 5189.47
Well = University Lands 57-65 #1H
Density = 2.76
Job # 121499
Swi = As Received

Plunger Diameter = 2.0 inch

Time (sec)	Pore Pressure (psi)	Cell Press (ksi)	Axial LVDT 1	Axial LVDT 2	Radial LVDT (mills)	Axial Load (kip)	Axial LVDT Avg (mills)
0	0.000	1.57	0.0033	0.0000	-0.0001	0.0000	0.0585
5	0.000	1.57	0.0455	0.0054	-0.0022	0.0623	0.0846
10	0.000	1.57	0.0910	0.0215	-0.0009	0.1168	0.1116
15	0.000	1.57	0.1170	0.0431	0.0036	0.1697	0.1374
20	0.000	1.57	0.1463	0.0727	0.0066	0.2217	0.1632
25	0.000	1.57	0.1788	0.0861	0.0076	0.2763	0.1892
30	0.000	1.57	0.2080	0.1130	0.0086	0.3318	0.2162
35	0.000	1.57	0.2405	0.1292	0.0116	0.3872	0.2433
40	0.000	1.57	0.2730	0.1453	0.0134	0.4427	0.2706
45	0.000	1.57	0.3153	0.1642	0.0129	0.4998	0.2989
50	0.000	1.57	0.3543	0.1803	0.0166	0.5561	0.3253
55	0.000	1.57	0.3868	0.2045	0.0200	0.6116	0.3529
60	0.000	1.57	0.4225	0.2207	0.0231	0.6670	0.3797
65	0.000	1.57	0.4615	0.2395	0.0226	0.7250	0.4059
70	0.000	1.57	0.4908	0.2530	0.0245	0.7830	0.4322
75	0.000	1.57	0.5330	0.2772	0.0271	0.8419	0.4590
80	0.000	1.57	0.5688	0.2907	0.0290	0.9016	0.4853
85	0.000	1.57	0.6045	0.3014	0.0297	0.9621	0.5118
90	0.000	1.57	0.6402	0.3230	0.0293	1.0219	0.5386
95	0.000	1.57	0.6727	0.3391	0.0312	1.0816	0.5649
100	0.000	1.57	0.7150	0.3580	0.0297	1.1438	0.5921
105	0.000	1.57	0.7507	0.3741	0.0289	1.2052	0.6186
110	0.000	1.57	0.7865	0.3876	0.0273	1.2675	0.6449
115	0.000	1.57	0.8222	0.4037	0.0324	1.3315	0.6718
120	0.000	1.57	0.8645	0.4199	0.0352	1.3929	0.6990
125	0.000	1.57	0.9067	0.4307	0.0352	1.4535	0.7253
130	0.000	1.57	0.9360	0.4522	0.0372	1.5149	0.7524
135	0.000	1.57	0.9750	0.4684	0.0400	1.5763	0.7799
140	0.000	1.57	1.0075	0.4899	0.0416	1.6378	0.8070
145	0.000	1.57	1.0497	0.4980	0.0401	1.7017	0.8338
150	0.000	1.57	1.0887	0.5195	0.0449	1.7640	0.8613
155	0.000	1.57	1.1245	0.5384	0.0497	1.8263	0.8878
160	0.000	1.57	1.1602	0.5545	0.0509	1.8877	0.9142
165	0.000	1.57	1.2025	0.5626	0.0530	1.9500	0.9403
170	0.000	1.57	1.2415	0.5814	0.0547	2.0114	0.9671
175	0.000	1.57	1.2707	0.6030	0.0533	2.0745	0.9937
180	0.000	1.57	1.3130	0.6138	0.0535	2.1394	1.0207
185	0.000	1.57	1.3455	0.6299	0.0564	2.2051	1.0472
190	0.000	1.57	1.3844	0.6488	0.0550	2.2673	1.0743
195	0.000	1.57	1.4267	0.6622	0.0583	2.3330	1.1011
200	0.000	1.57	1.4624	0.6811	0.0636	2.3996	1.1275
205	0.000	1.57	1.4917	0.6999	0.0642	2.4618	1.1538
210	0.000	1.57	1.5274	0.7188	0.0695	2.5241	1.1815
215	0.000	1.57	1.5664	0.7349	0.0736	2.5898	1.2088
220	0.000	1.57	1.5989	0.7538	0.0785	2.6513	1.2354
225	0.000	1.57	1.6347	0.7726	0.0811	2.7118	1.2621
230	0.000	1.57	1.6737	0.7942	0.0834	2.7758	1.2889
235	0.000	1.57	1.7062	0.8130	0.0845	2.8398	1.3148
240	0.000	1.57	1.7387	0.8292	0.0867	2.9030	1.3413
245	0.000	1.57	1.7744	0.8454	0.0875	2.9704	1.3683
250	0.000	1.57	1.8134	0.8615	0.0890	3.0361	1.3959
255	0.000	1.57	1.8492	0.8777	0.0909	3.1009	1.4225
260	0.000	1.57	1.8849	0.8992	0.0936	3.1674	1.4496
265	0.000	1.57	1.9174	0.9208	0.0970	3.2331	1.4768
270	0.000	1.57	1.9531	0.9423	0.1002	3.2997	1.5040
275	0.000	1.57	1.9856	0.9558	0.1049	3.3662	1.5307
280	0.000	1.57	2.0181	0.9800	0.1107	3.4345	1.5569
285	0.000	1.57	2.0571	0.9989	0.1108	3.5010	1.5839
290	0.000	1.57	2.0896	1.0204	0.1112	3.5701	1.6105
295	0.000	1.57	2.1254	1.0366	0.1136	3.6375	1.6368
300	0.000	1.57	2.1514	1.0528	0.1161	3.7050	1.6633
305	0.000	1.57	2.1904	1.0770	0.1197	3.7732	1.6911
310	0.000	1.57	2.2261	1.0959	0.1237	3.8415	1.7182
315	0.000	1.57	2.2586	1.1147	0.1265	3.9106	1.7444
320	0.000	1.57	2.2911	1.1363	0.1290	3.9797	1.7718
325	0.000	1.57	2.3236	1.1578	0.1292	4.0488	1.7988
330	0.000	1.57	2.3594	1.1794	0.1298	4.1171	1.8256
335	0.000	1.57	2.3886	1.1955	0.1300	4.1870	1.8518
340	0.000	1.57	2.4244	1.2225	0.1317	4.2553	1.8792
345	0.000	1.57	2.4569	1.2414	0.1343	4.3244	1.9059
350	0.000	1.57	2.4861	1.2629	0.1400	4.3961	1.9321
355	0.000	1.57	2.5219	1.2791	0.1434	4.4686	1.9594
360	0.000	1.57	2.5544	1.3033	0.1502	4.5386	1.9867
365	0.000	1.57	2.5868	1.3276	0.1552	4.6103	2.0138
370	0.000	1.57	2.6161	1.3437	0.1563	4.6803	2.0399
375	0.000	1.57	2.6518	1.3707	0.1555	4.7503	2.0669
380	0.000	1.57	2.6843	1.3896	0.1578	4.8202	2.0932
385	0.000	1.57	2.7168	1.4111	0.1597	4.8928	2.1205
390	0.000	1.57	2.7461	1.4300	0.1620	4.9644	2.1465
395	0.000	1.57	2.7721	1.4569	0.1647	5.0361	2.1731
400	0.000	1.57	2.8078	1.4785	0.1686	5.1087	2.2002
405	0.000	1.57	2.8436	1.5027	0.1737	5.1812	2.2266
410	0.000	1.57	2.8696	1.5189	0.1761	5.2520	2.2526
415	0.000	1.57	2.8988	1.5432	0.1832	5.3237	2.2796
420	0.000	1.57	2.9346	1.5647	0.1876	5.3962	2.3068

For Triaxial Test
Rate 1 (Strain/min) 0.00028
Rate 2 (psi/min) 1097
Deformation mil/hr 19.275

Young (Mpsi) 4.504
Poisson's Ratio 0.27
Strength (psi) 32441
% Dev Stress 16221

Confining Stress	Axial Stress	Radial Deform	True Radi Deform	Radial Strain	Axial Strain	Volume Strain	Deviatory Stress
psi	psi	in	in	(in/in)	(in/in)	(in ³ /in ³)	(psi)
1570	1570	0	0	0.00000	0.00000000	0.00000000	0
1570	1651	-2.1E-06	-1.4E-06	0.00000	0.0000230	0.0000259	81
1570	1722	-8E-07	-5.4E-07	0.00000	0.0000474	0.0000485	152
1570	1790	3.7E-06	2.49E-06	0.00000	0.0000705	0.0000655	220
1570	1858	6.7E-06	4.51E-06	0.00000	0.0000939	0.0000848	288
1570	1928	7.7E-06	5.18E-06	-0.00001	0.0001173	0.0001068	358
1570	2000	8.7E-06	5.85E-06	-0.00001	0.0001415	0.0001297	430
1570	2072	1.17E-05	7.87E-06	-0.00001	0.0001659	0.0001500	502
1570	2144	1.35E-05	9.08E-06	-0.00001	0.0001905	0.0001722	574
1570	2218	0.000013	8.75E-06	-0.00001	0.0002160	0.0001984	648
1570	2291	1.67E-05	1.12E-05	-0.00001	0.0002397	0.0002171	721
1570	2363	2.01E-05	1.35E-05	-0.00001	0.0002646	0.0002373	793
1570	2435	2.32E-05	1.56E-05	-0.00002	0.0002887	0.0002572	865
1570	2510	2.27E-05	1.53E-05	-0.00002	0.0003121	0.0002813	940
1570	2586	2.46E-05	1.65E-05	-0.00002	0.0003355	0.0003021	1016
1570	2662	2.72E-05	1.83E-05	-0.00002	0.0003594	0.0003225	1092
1570	2739	2.91E-05	1.96E-05	-0.00002	0.0003827	0.0003432	1169
1570	2818	2.98E-05	2E-05	-0.00002	0.0004062	0.0003658	1248
1570	2895	2.94E-05	1.98E-05	-0.00002	0.0004301	0.0003902	1325
1570	2973	3.13E-05	2.11E-05	-0.00002	0.0004534	0.0004109	1403
1570	3054	2.98E-05	2E-05	-0.00002	0.0004775	0.0004371	1484
1570	3133	0.000029	1.95E-05	-0.00002	0.0005009	0.0004615	1563
1570	3214	2.74E-05	1.84E-05	-0.00002	0.0005241	0.0004869	1644
1570	3297	3.25E-05	2.19E-05	-0.00002	0.0005478	0.0005037	1727
1570	3377	3.53E-05	2.37E-05	-0.00002	0.0005719	0.0005240	1807
1570	3455	3.53E-05	2.37E-05	-0.00002	0.0005952	0.0005473	1885
1570	3535	3.73E-05	2.51E-05	-0.00003	0.0006192	0.0005686	1965
1570	3615	4.01E-05	2.7E-05	-0.00003	0.0006437	0.0005892	2045
1570	3694	4.17E-05	2.81E-05	-0.00003	0.0006677	0.0006111	2124
1570	3777	4.02E-05	2.7E-05	-0.00003	0.0006913	0.0006367	2207
1570	3858	0.000045	3.03E-05	-0.00003	0.0007157	0.0006546	2288
1570	3939	4.98E-05	3.35E-05	-0.00003	0.0007391	0.0006715	2369
1570	4018	0.000051	3.43E-05	-0.00003	0.0007625	0.0006932	2448
1570	4099	5.31E-05	3.57E-05	-0.00004	0.0007854	0.0007133	2529
1570	4179	5.48E-05	3.69E-05	-0.00004	0.0008091	0.0007347	2609
1570	4261	5.34E-05	3.59E-05	-0.00004	0.0008326	0.0007601	2691
1570	4345	5.36E-05	3.61E-05	-0.00004	0.0008563	0.0007835	2775
1570	4430	5.65E-05	3.8E-05	-0.00004	0.0008794	0.0008027	2860
1570	4511	5.51E-05	3.71E-05	-0.00004	0.0009034	0.0008286	2941
1570	4596	5.84E-05	3.93E-05	-0.00004	0.0009269	0.0008476	3026
1570	4682	6.37E-05	4.29E-05	-0.00004	0.0009499	0.0008634	3112
1570	4763	6.43E-05	4.33E-05	-0.00004	0.0009731	0.0008858	3193
1570	4844	6.96E-05	4.68E-05	-0.00005	0.0009977	0.0009031	3274
1570	4929	7.37E-05	4.96E-05	-0.00005	0.0010216	0.0009216	3359
1570	5009	7.86E-05	5.29E-05	-0.00005	0.0010452	0.0009385	3439
1570	5087	8.12E-05	5.46E-05	-0.00006	0.0010689	0.0009586	3517
1570	5170	8.35E-05	5.62E-05	-0.00006	0.0010924	0.0009790	3600
1570	5253	8.46E-05	5.69E-05	-0.00006	0.0011151	0.0010002	3683
1570	5335	8.68E-05	5.84E-05	-0.00006	0.0011384	0.0010205	3765
1570	5423	8.76E-05	5.89E-05	-0.00006	0.0011620	0.0010431	3853
1570	5508	8.91E-05	5.99E-05	-0.00006	0.0011863	0.0010653	3938
1570	5592	0.000091	6.12E-05	-0.00006	0.0012096	0.0010861	4022
1570	5678	9.37E-05	6.3E-05	-0.00006	0.0012334	0.0011062	4108
1570	5763	9.71E-05	6.53E-05	-0.00007	0.0012573	0.0011254	4193
1570	5850	0.0001	6.75E-05	-0.00007	0.0012811	0.0011449	4280
1570	5936	0.000105	7.06E-05	-0.00007	0.0013044	0.0011618	4366
1570	6025	0.000111	7.45E-05	-0.00008	0.0013271	0.0011767	4455
1570	6111	0.000111	7.46E-05	-0.00008	0.0013507	0.0012001	4541
1570	6200	0.000111	7.49E-05	-0.00008	0.0013737	0.0012226	4630
1570	6288	0.000114	7.65E-05	-0.00008	0.0013966	0.0012422	4718
1570	6375	0.000116	7.82E-05	-0.00008	0.0014197	0.0012619	4805
1570	6464	0.00012	8.06E-05	-0.00008	0.0014440	0.0012813	4894
1570	6552	0.000124	8.33E-05	-0.00008	0.0014677	0.0012996	4982
1570	6642	0.000127	8.52E-05	-0.00009	0.0014903	0.0013184	5072
1570	6732	0.000129	8.68E-05	-0.00009	0.0015141	0.0013388	5162
1570	6821	0.000129	8.7E-05	-0.00009	0.0015377	0.0013621	5251
1570	6910	0.00013	8.74E-05	-0.00009	0.0015610	0.0013846	5340
1570	7001	0.00013	8.75E-05	-0.00009	0.0015836	0.0014069	5431
1570	7089	0.000132	8.87E-05	-0.00009	0.0016074	0.0014285	5519
1570	7179	0.000134	9.04E-05	-0.00009	0.0016307	0.0014482	5609
1570	7272	0.00014	9.42E-05	-0.00010	0.0016531	0.0014629	5702
1570	7366	0.000144	9.65E-05	-0.00010	0.0016767	0.0014819	5786
1570	7457	0.00015	0.000101	-0.00010	0.0017005	0.0014964	5871
1570	7550	0.000155	0.000104	-0.00011	0.0017238	0.0015129	5980
1570	7640	0.000156	0.000105	-0.00011	0.0017464	0.0015340	6070
1570	7731	0.000156	0.000105	-0.00011	0.0017697	0.0015584	6161
1570	7822	0.000158	0.000106	-0.00011	0.0017925	0.0015781	6252
1570	7916	0.00016	0.000107	-0.00011	0.0018160	0.0015990	6346
1570	8009	0.000162	0.000109	-0.00011	0.0018383	0.0016182	6439
1570	8102	0.000165	0.000111	-0.00011	0.0018612	0.0016374	6532
1570	8196	0.000169	0.000113	-0.00011	0.0018845	0.0016554	6626
1570	8290	0.000174	0.000117	-0.00012	0.0019071	0.0016711	6720
1570	8382	0.000176	0.000119	-0.00012	0.0019295	0.0016903	6812
1570	8475	0.000183	0.000123	-0.00012	0.0019528	0.0017039	6905
1570	8569	0.000188	0.000126	-0.00013	0.0019763	0.0017214	6999

425	0.000	1.57	2.9638	1.5863	0.1924	5.4705	2.3334	1570	8665	0.000193	0.000129	-0.00013	0.0019990	0.0017376	7095
430	0.000	1.57	2.9963	1.6106	0.1956	5.5439	2.3603	1570	8760	0.000196	0.000132	-0.00013	0.0020222	0.0017564	7190
435	0.000	1.57	3.0288	1.6294	0.2016	5.6198	2.3878	1570	8859	0.000202	0.000136	-0.00014	0.0020457	0.0017718	7289
440	0.000	1.57	3.0581	1.6564	0.2029	5.6949	2.4153	1570	8956	0.000203	0.000137	-0.00014	0.0020693	0.0017936	7386
445	0.000	1.57	3.0873	1.6780	0.2066	5.7700	2.4414	1570	9054	0.000207	0.000139	-0.00014	0.0020915	0.0018108	7484
450	0.000	1.57	3.1198	1.6995	0.2119	5.8426	2.4684	1570	9148	0.000212	0.000143	-0.00014	0.0021147	0.0018268	7578
455	0.000	1.57	3.1556	1.7265	0.2148	5.9134	2.4948	1570	9240	0.000215	0.000145	-0.00015	0.0021374	0.0018456	7670
460	0.000	1.57	3.1848	1.7480	0.2155	5.9851	2.5209	1570	9333	0.000216	0.000145	-0.00015	0.0021589	0.0018671	7763
465	0.000	1.57	3.2141	1.7615	0.2173	6.0559	2.5471	1570	9424	0.000217	0.000146	-0.00015	0.0021824	0.0018872	7854
470	0.000	1.57	3.2466	1.7885	0.2222	6.1293	2.5748	1570	9520	0.000222	0.00015	-0.00015	0.0022063	0.0019045	7950
475	0.000	1.57	3.2758	1.8074	0.2241	6.2010	2.6014	1570	9613	0.000224	0.000151	-0.00015	0.0022292	0.0019247	8043
480	0.000	1.57	3.3148	1.8289	0.2287	6.2761	2.6282	1570	9710	0.000229	0.000154	-0.00016	0.0022521	0.0019415	8140
485	0.000	1.57	3.3408	1.8532	0.2345	6.3503	2.6550	1570	9806	0.000235	0.000158	-0.00016	0.0022750	0.0019565	8236
490	0.000	1.57	3.3701	1.8829	0.2407	6.4246	2.6819	1570	9903	0.000241	0.000162	-0.00016	0.0022981	0.0019711	8333
495	0.000	1.57	3.3961	1.9044	0.2423	6.4988	2.7079	1570	9999	0.000242	0.000163	-0.00016	0.0023203	0.0019911	8429
500	0.000	1.57	3.4286	1.9233	0.2458	6.5731	2.7349	1570	10095	0.000246	0.000165	-0.00017	0.0023434	0.0020095	8525
505	0.000	1.57	3.4611	1.9503	0.2505	6.6465	2.7625	1570	10190	0.000251	0.000169	-0.00017	0.0023672	0.0020269	8620
510	0.000	1.57	3.4936	1.9691	0.2545	6.7216	2.7897	1570	10288	0.000255	0.000171	-0.00017	0.0023905	0.0020448	8718
515	0.000	1.57	3.5228	1.9907	0.2577	6.7950	2.8166	1570	10383	0.000258	0.000173	-0.00018	0.0024136	0.0020635	8813
520	0.000	1.57	3.5586	2.0123	0.2640	6.8701	2.8438	1570	10480	0.000264	0.000178	-0.00018	0.0024369	0.0020783	8910
525	0.000	1.57	3.5878	2.0393	0.2680	6.9478	2.8714	1570	10581	0.000268	0.00018	-0.00018	0.0024605	0.0020964	9011
530	0.000	1.57	3.6203	2.0635	0.2697	7.0254	2.8977	1570	10682	0.00027	0.000181	-0.00018	0.0024827	0.0021164	9112
535	0.000	1.57	3.6463	2.0851	0.2719	7.0988	2.9238	1570	10777	0.000272	0.000183	-0.00018	0.0025049	0.0021356	9207
540	0.000	1.57	3.6788	2.1067	0.2759	7.1774	2.9510	1570	10879	0.000276	0.000186	-0.00019	0.0025280	0.0021532	9309
545	0.000	1.57	3.7081	2.1391	0.2816	7.2508	2.9772	1570	10974	0.000282	0.000189	-0.00019	0.0025505	0.0021680	9404
550	0.000	1.57	3.7406	2.1498	0.2877	7.3233	3.0030	1570	11068	0.000288	0.000194	-0.00020	0.0025725	0.0021817	9498
555	0.000	1.57	3.7698	2.1741	0.2942	7.3967	3.0297	1570	11164	0.000294	0.000198	-0.00020	0.0025954	0.0021958	9594
560	0.000	1.57	3.8023	2.2011	0.3018	7.4727	3.0568	1570	11262	0.000302	0.000203	-0.00020	0.0026185	0.0022086	9692
565	0.000	1.57	3.8283	2.2200	0.3068	7.5487	3.0833	1570	11361	0.000307	0.000206	-0.00021	0.0026410	0.0022243	9791
570	0.000	1.57	3.8576	2.2469	0.3095	7.6246	3.1106	1570	11459	0.00031	0.000208	-0.00021	0.0026644	0.0022440	9889
575	0.000	1.57	3.8868	2.2712	0.3149	7.7023	3.1380	1570	11560	0.000315	0.000212	-0.00021	0.0026877	0.0022600	9990
580	0.000	1.57	3.9193	2.2955	0.3173	7.7791	3.1648	1570	11659	0.000317	0.000214	-0.00022	0.0027105	0.0022795	10089
585	0.000	1.57	3.9453	2.3225	0.3204	7.8559	3.1918	1570	11759	0.000321	0.000216	-0.00022	0.0027335	0.0022983	10189
590	0.000	1.57	3.9746	2.3468	0.3259	7.9310	3.2186	1570	11856	0.000326	0.000219	-0.00022	0.0027564	0.0023138	10286
595	0.000	1.57	4.0104	2.3683	0.3306	8.0078	3.2446	1570	11956	0.000331	0.000222	-0.00022	0.0027784	0.0023293	10386
600	0.000	1.57	4.0331	2.3926	0.3342	8.0847	3.2713	1570	12056	0.000334	0.000225	-0.00023	0.0028011	0.0023472	10486
605	0.000	1.57	4.0656	2.4196	0.3398	8.1598	3.2987	1570	12153	0.00034	0.000229	-0.00023	0.0028246	0.0023630	10583
610	0.000	1.57	4.0949	2.4412	0.3438	8.2357	3.3243	1570	12252	0.000344	0.000231	-0.00023	0.0028462	0.0023792	10682
615	0.000	1.57	4.1209	2.4601	0.3475	8.3117	3.3511	1570	12350	0.000348	0.000234	-0.00024	0.0028690	0.0023970	10780
620	0.000	1.57	4.1566	2.4898	0.3527	8.3868	3.3785	1570	12448	0.000353	0.000237	-0.00024	0.0028925	0.0024135	10878
625	0.000	1.57	4.1826	2.5168	0.3584	8.4620	3.4052	1570	12545	0.000359	0.000241	-0.00024	0.0029153	0.0024285	10975
630	0.000	1.57	4.2054	2.5356	0.3668	8.5396	3.4314	1570	12646	0.000367	0.000247	-0.00025	0.0029375	0.0024393	11076
635	0.000	1.57	4.2411	2.5626	0.3718	8.6173	3.4592	1570	12747	0.000372	0.00025	-0.00025	0.0029612	0.0024562	11177
640	0.000	1.57	4.2736	2.5815	0.3763	8.6941	3.4854	1570	12846	0.000376	0.000253	-0.00026	0.0029834	0.0024723	11276
645	0.000	1.57	4.2996	2.6139	0.3841	8.7727	3.5118	1570	12948	0.000384	0.000258	-0.00026	0.0030056	0.0024839	11378
650	0.000	1.57	4.3289	2.6328	0.3902	8.8495	3.5377	1570	13048	0.00039	0.000263	-0.00026	0.0030275	0.0024975	11478
655	0.000	1.57	4.3614	2.6571	0.3961	8.9272	3.5649	1570	13149	0.000396	0.000267	-0.00027	0.0030507	0.0025127	11579
660	0.000	1.57	4.3874	2.6787	0.4035	9.0040	3.5914	1570	13248	0.000404	0.000272	-0.00027	0.0030731	0.0025251	11678
665	0.000	1.57	4.4102	2.7084	0.4113	9.0817	3.6189	1570	13349	0.000411	0.000277	-0.00028	0.0030966	0.0025379	11779
670	0.000	1.57	4.4427	2.7300	0.4168	9.1568	3.6460	1570	13446	0.000417	0.00028	-0.00028	0.0031198	0.0025537	11876
675	0.000	1.57	4.4719	2.7624	0.4212	9.2336	3.6729	1570	13546	0.000421	0.000283	-0.00029	0.0031427	0.0025706	11976
680	0.000	1.57	4.5044	2.7786	0.4253	9.3079	3.6991	1570	13642	0.000425	0.000286	-0.00029	0.0031650	0.0025873	12072
685	0.000	1.57	4.5304	2.8109	0.4328	9.3839	3.7261	1570	13741	0.000433	0.000291	-0.00029	0.0031880	0.0026002	12171
690	0.000	1.57	4.5597	2.8298	0.4404	9.4616	3.7522	1570	13842	0.000441	0.000296	-0.00030	0.0032101	0.0026119	12272
695	0.000	1.57	4.5824	2.8595	0.4437	9.5410	3.7792	1570	13945	0.000444	0.000299	-0.00030	0.0032329	0.0026302	12375
700	0.000	1.57	4.6117	2.8838	0.4522	9.6187	3.8066	1570	14045	0.000452	0.000304	-0.00031	0.0032562	0.0026421	12475
705	0.000	1.57	4.6475	2.9054	0.4567	9.6981	3.8336	1570	14148	0.000457	0.000307	-0.00031	0.0032791	0.0026588	12578
710	0.000	1.57	4.6702	2.9324	0.4609	9.7774	3.8603	1570	14251	0.000461	0.00031	-0.00031	0.0033017	0.0026757	12681
715	0.000	1.57	4.7027	2.9567	0.4659	9.8560	3.8882	1570	14353	0.000466	0.000313	-0.00032	0.0033254	0.0026926	12783
720	0.000	1.57	4.7352	2.9810	0.4749	9.9337	3.9143	1570	14454	0.000475	0.00032	-0.00032	0.0033474	0.0027024	12884
725	0.000	1.57	4.7580	3.0080	0.4807	10.0122	3.9406	1570	14556	0.000481	0.000323	-0.00033	0.0033697	0.0027168	12986
730	0.000	1.57	4.7905	3.0296	0.4893	10.0916	3.9677	1570	14659	0.000489	0.000329	-0.00033	0.0033925	0.0027280	13089
735	0.000	1.57	4.8165	3.0647	0.4953	10.1693	3.9938	1570	14759	0.000495	0.000333	-0.00034	0.0034145	0.0027418	13189
740	0.000	1.57	4.8392	3.0809	0.5008	10.2453	4.0200	1570	14858	0.000501	0.000337	-0.00034	0.0034368	0.0027566	13288
745	0.000	1.57	4.8718	3.1080	0.5049	10.3230	4.0474	1570	14959	0.000505	0.00034	-0.00034	0.0034601	0.0027744	13389
750	0.000	1.57	4.9043	3.1323	0.5109	10.3998	4.0735	1570	15059	0.000511	0.000344	-0.00035	0.0034822	0.0027884	13489
755	0.000	1.57	4.9270	3.1539	0.5181	10.4767	4.1009	1570	15158	0.000518	0.000349	-0.00035	0.0035056	0.0028019	13588
760	0.000	1.57	4.9595	3.1836	0.5261	10.5535	4.1288	1570	15258	0.000526	0.000354	-0.00036	0.0035295	0.0028150	13688
765	0.000	1.57													

940	0.000	1.57	5.9707	4.1025	0.8288	13.3746	5.0935	1570	18917	0.000829	0.000558	-0.00056	0.0043463	0.0032208	17347
945	0.000	1.57	5.9935	4.1295	0.8394	13.4541	5.1200	1570	19020	0.00084	0.000565	-0.00057	0.0043687	0.0032287	17450
950	0.000	1.57	6.0228	4.1593	0.8470	13.5343	5.1466	1570	19124	0.000847	0.00057	-0.00058	0.0043911	0.0032408	17554
955	0.000	1.57	6.0455	4.1863	0.8570	13.6129	5.1733	1570	19226	0.000857	0.000577	-0.00058	0.0044136	0.0032498	17656
960	0.000	1.57	6.0780	4.2080	0.8659	13.6923	5.2000	1570	19329	0.000866	0.000583	-0.00059	0.0044362	0.0032602	17759
965	0.000	1.57	6.1008	4.2377	0.8756	13.7718	5.2276	1570	19432	0.000876	0.000589	-0.00059	0.0044595	0.0032704	17862
970	0.000	1.57	6.1268	4.2621	0.8868	13.8495	5.2542	1570	19533	0.000887	0.000597	-0.00060	0.0044821	0.0032778	17963
975	0.000	1.57	6.1626	4.2864	0.8986	13.9281	5.2809	1570	19635	0.000899	0.000605	-0.00061	0.0045047	0.0032844	18065
980	0.000	1.57	6.1854	4.3135	0.9088	14.0066	5.3069	1570	19737	0.000909	0.000611	-0.00062	0.0045266	0.0032924	18167
985	0.000	1.57	6.2179	4.3432	0.9200	14.0715	5.3333	1570	19821	0.00092	0.000619	-0.00062	0.0045497	0.0033003	18251
990	0.000	1.57	6.2374	4.3676	0.9310	14.1562	5.3596	1570	19931	0.000931	0.000626	-0.00063	0.0045714	0.0033071	18361
995	0.000	1.57	6.2699	4.3865	0.9422	14.2334	5.3864	1570	20031	0.000942	0.000634	-0.00064	0.0045942	0.0033147	18461
1000	0.000	1.57	6.2927	4.4163	0.9533	14.3105	5.4142	1570	20131	0.000953	0.000641	-0.00065	0.0046180	0.0033234	18561
1005	0.000	1.57	6.3057	4.4569	0.9645	14.3877	5.4411	1570	20231	0.000965	0.000649	-0.00065	0.0046408	0.0033310	18661
1010	0.000	1.57	6.3480	4.4758	0.9758	14.4649	5.4686	1570	20331	0.000976	0.000656	-0.00066	0.0046644	0.0033392	18761
1015	0.000	1.57	6.3837	4.4894	0.9871	14.5420	5.4948	1570	20431	0.000987	0.000664	-0.00067	0.0046885	0.0033460	18861
1020	0.000	1.57	6.4130	4.5218	0.9985	14.6192	5.5219	1570	20531	0.000999	0.000672	-0.00068	0.0047096	0.0033536	18961
1025	0.000	1.57	6.4390	4.5381	1.0087	14.6964	5.5482	1570	20631	0.001009	0.000679	-0.00068	0.0047319	0.0033619	19061
1030	0.000	1.57	6.4650	4.5733	1.0238	14.7735	5.5753	1570	20731	0.001024	0.000689	-0.00070	0.0047549	0.0033646	19161
1035	0.000	1.57	6.4878	4.5976	1.0357	14.8507	5.6018	1570	20831	0.001036	0.000697	-0.00070	0.0047774	0.0033709	19261
1040	0.000	1.57	6.5171	4.6274	1.0516	14.9330	5.6284	1570	20938	0.001052	0.000707	-0.00071	0.0047996	0.0033716	19368
1045	0.000	1.57	6.5399	4.6572	1.0652	15.0055	5.6545	1570	21032	0.001065	0.000717	-0.00072	0.0048219	0.0033754	19462
1050	0.000	1.57	6.5724	4.6761	1.0835	15.0764	5.6809	1570	21124	0.001084	0.000729	-0.00074	0.0048446	0.0033732	19554
1055	0.000	1.57	6.5952	4.7086	1.0992	15.1490	5.7071	1570	21218	0.001099	0.000739	-0.00075	0.0048671	0.0033744	19648
1060	0.000	1.57	6.6212	4.7303	1.1172	15.2259	5.7343	1570	21318	0.001117	0.000752	-0.00076	0.0048903	0.0033732	19748
1065	0.000	1.57	6.6504	4.7546	1.1342	15.3053	5.7612	1570	21421	0.001134	0.000763	-0.00077	0.0049131	0.0033728	19851
1070	0.000	1.57	6.6765	4.7844	1.1496	15.3856	5.7884	1570	21525	0.00115	0.000773	-0.00078	0.0049360	0.0033748	19955
1075	0.000	1.57	6.6992	4.8115	1.1632	15.4659	5.8147	1570	21629	0.001163	0.000783	-0.00079	0.0049581	0.0033785	20059
1080	0.000	1.57	6.7350	4.8413	1.1800	15.5462	5.8419	1570	21733	0.00118	0.000794	-0.00080	0.0049811	0.0033786	20163
1085	0.000	1.57	6.7545	4.8656	1.1960	15.6265	5.8682	1570	21837	0.001196	0.000805	-0.00081	0.0050031	0.0033789	20267
1090	0.000	1.57	6.7838	4.8927	1.2086	15.7084	5.8951	1570	21944	0.001209	0.000813	-0.00082	0.0050257	0.0033845	20374
1095	0.000	1.57	6.8098	4.9144	1.2247	15.7887	5.9220	1570	22048	0.001225	0.000824	-0.00083	0.0050484	0.0033852	20478
1100	0.000	1.57	6.8359	4.9469	1.2425	15.8716	5.9492	1570	22155	0.001243	0.000836	-0.00084	0.0050712	0.0033839	20585
1105	0.000	1.57	6.8651	4.9740	1.2595	15.9544	5.9755	1570	22263	0.00126	0.000847	-0.00086	0.0050931	0.0033827	20693
1110	0.000	1.57	6.8912	4.9983	1.2766	16.0373	6.0024	1570	22370	0.001277	0.000859	-0.00087	0.0051156	0.0033820	20800
1115	0.000	1.57	6.9172	5.0281	1.2938	16.1176	6.0301	1570	22474	0.001294	0.00087	-0.00088	0.0051391	0.0033822	20904
1120	0.000	1.57	6.9465	5.0498	1.3098	16.1987	6.0567	1570	22580	0.00131	0.000881	-0.00089	0.0051615	0.0033827	21010
1125	0.000	1.57	6.9660	5.0796	1.3271	16.2773	6.0827	1570	22682	0.001327	0.000893	-0.00090	0.0051833	0.0033811	21112
1130	0.000	1.57	6.9985	5.1094	1.3437	16.3550	6.1099	1570	22782	0.001344	0.000904	-0.00091	0.0052065	0.0033817	21212
1135	0.000	1.57	7.0278	5.1392	1.3596	16.4328	6.1361	1570	22883	0.00136	0.000915	-0.00092	0.0052285	0.0033822	21313
1140	0.000	1.57	7.0506	5.1609	1.3786	16.5113	6.1613	1570	22985	0.001379	0.000927	-0.00094	0.0052496	0.0033775	21415
1145	0.000	1.57	7.0733	5.1825	1.3969	16.5882	6.1883	1570	23085	0.001397	0.00094	-0.00095	0.0052725	0.0033756	21515
1150	0.000	1.57	7.1059	5.2123	1.4106	16.6659	6.2155	1570	23186	0.001411	0.000949	-0.00096	0.0052958	0.0033802	21616
1155	0.000	1.57	7.1351	5.2340	1.4252	16.7437	6.2416	1570	23286	0.001425	0.000959	-0.00097	0.0053177	0.0033823	21716
1160	0.000	1.57	7.1612	5.2584	1.4430	16.8222	6.2694	1570	23388	0.001443	0.000971	-0.00098	0.0053414	0.0033818	21818
1165	0.000	1.57	7.1872	5.2936	1.4585	16.9008	6.2974	1570	23490	0.001459	0.000981	-0.00099	0.0053653	0.0033847	21920
1170	0.000	1.57	7.2132	5.3153	1.4776	16.9803	6.3246	1570	23593	0.001478	0.000994	-0.00100	0.0053884	0.0033818	22023
1175	0.000	1.57	7.2392	5.3397	1.4971	17.0597	6.3523	1570	23696	0.001497	0.001007	-0.00102	0.0054120	0.0033789	22126
1180	0.000	1.57	7.2718	5.3749	1.5151	17.1383	6.3801	1570	23798	0.001515	0.001019	-0.00103	0.0054356	0.0033782	22228
1185	0.000	1.57	7.2946	5.4047	1.5320	17.2177	6.4064	1570	23901	0.001532	0.001031	-0.00104	0.0054578	0.0033774	22331
1190	0.000	1.57	7.3238	5.4291	1.5487	17.2955	6.4328	1570	24002	0.001549	0.001042	-0.00105	0.0054801	0.0033770	22432
1195	0.000	1.57	7.3499	5.4562	1.5638	17.3715	6.4583	1570	24101	0.001564	0.001052	-0.00106	0.0055016	0.0033780	22531
1200	0.000	1.57	7.3759	5.4806	1.5806	17.4484	6.4848	1570	24200	0.001581	0.001063	-0.00107	0.0055240	0.0033776	22630
1205	0.000	1.57	7.4052	5.5050	1.5970	17.5261	6.5109	1570	24301	0.001597	0.001074	-0.00108	0.0055461	0.0033774	22731
1210	0.000	1.57	7.4312	5.5321	1.6147	17.6013	6.5367	1570	24399	0.001615	0.001086	-0.00110	0.0055679	0.0033752	22829
1215	0.000	1.57	7.4540	5.5538	1.6325	17.6773	6.5640	1570	24497	0.001633	0.001098	-0.00111	0.0055913	0.0033744	22927
1220	0.000	1.57	7.4898	5.5809	1.6496	17.7542	6.5916	1570	24597	0.00165	0.00111	-0.00112	0.0056148	0.0033747	23027
1225	0.000	1.57	7.5125	5.6053	1.6675	17.8311	6.6182	1570	24697	0.001668	0.001122	-0.00113	0.0056374	0.0033730	23127
1230	0.000	1.57	7.5353	5.6325	1.6867	17.9063	6.6457	1570	24794	0.001687	0.001135	-0.00115	0.0056611	0.0033706	23224
1235	0.000	1.57	7.5744	5.6623	1.7032	17.9823	6.6735	1570	24893	0.001703	0.001146	-0.00116	0.0056850	0.0033721	23323
1240	0.000	1.57	7.5939	5.6894	1.7237	18.0592	6.6999	1570	24993	0.001724	0.00116	-0.00117	0.0057073	0.0033666	23423
1245	0.000	1.57	7.6232	5.7138	1.7462	18.1352	6.7272	1570	25091	0.001746	0.001175	-0.00119	0.0057306	0.0033593	23521
1250	0.000	1.57	7.6525	5.7409	1.7649	18.2104	6.7536	1570	25189	0.001765	0.001187	-0.00120	0.0057532	0.0033565	23619
1255	0.000	1.57	7.6752	5.7708	1.7871	18.2873	6.7794	1570	25288	0.001787	0.001202	-0.00121	0.0057749	0.0033481	23718
1260	0.000	1.57	7.7078	5.7925	1.8095	18.3624	6.8061	1570	25386	0.00181	0.001217	-0.00123	0.0057976	0.0033404	23816
1265	0.000	1.57	7.7338	5.8223	1.8288	18.4376	6.8333	1570	25483	0.001829	0.00123	-0.00124	0.0058209	0.0033375	23913
1270	0.000	1.57	7.7631	5.8386	1.8483	18.5128	6.8596	1570	25581	0.001848	0.001243	-0.00125	0.0058433	0.0033334	24011
1275	0.000	1.57	7.7826	5.8684											

1455	0.000	1.57	8.7559	6.8322	2.7044	21.1366	7.8509	1570	28984	0.002705	0.001819	-0.00184	0.0066996	0.0030272	27414
1460	0.000	1.57	8.7852	6.8594	2.7288	21.2049	7.8767	1570	29073	0.002729	0.001836	-0.00185	0.0067219	0.0030164	27503
1465	0.000	1.57	8.8112	6.8812	2.7544	21.2707	7.9025	1570	29158	0.002755	0.001853	-0.00187	0.0067444	0.0030040	27588
1470	0.000	1.57	8.8373	6.9083	2.7778	21.3408	7.9292	1570	29249	0.002778	0.001869	-0.00189	0.0067675	0.0029954	27679
1475	0.000	1.57	8.8633	6.9355	2.8029	21.4092	7.9559	1570	29338	0.002803	0.001886	-0.00190	0.0067907	0.0029845	27768
1480	0.000	1.57	8.8894	6.9573	2.8270	21.4758	7.9826	1570	29424	0.002827	0.001902	-0.00192	0.0068139	0.0029750	27854
1485	0.000	1.57	8.9154	6.9872	2.8542	21.5399	8.0102	1570	29507	0.002854	0.00192	-0.00194	0.0068383	0.0029625	27937
1490	0.000	1.57	8.9480	7.0116	2.8801	21.6057	8.0378	1570	29592	0.00288	0.001938	-0.00196	0.0068627	0.0029517	28022
1495	0.000	1.57	8.9740	7.0388	2.9076	21.6689	8.0645	1570	29674	0.002908	0.001956	-0.00197	0.0068862	0.0029378	28104
1500	0.000	1.57	8.9936	7.0714	2.9353	21.7322	8.0919	1570	29756	0.002935	0.001975	-0.00199	0.0069104	0.0029244	28186
1505	0.000	1.57	9.0294	7.0932	2.9630	21.7937	8.1184	1570	29836	0.002963	0.001993	-0.00201	0.0069339	0.0029103	28266
1510	0.000	1.57	9.0587	7.1204	2.9913	21.8586	8.1455	1570	29921	0.002991	0.002012	-0.00203	0.0069576	0.0028956	28351
1515	0.000	1.57	9.0815	7.1448	3.0197	21.9210	8.1722	1570	30001	0.00302	0.002031	-0.00205	0.0069812	0.0028806	28431
1520	0.000	1.57	9.1173	7.1693	3.0506	21.9851	8.1994	1570	30085	0.003051	0.002052	-0.00207	0.0070052	0.0028627	28515
1525	0.000	1.57	9.1368	7.1938	3.0796	22.0483	8.2255	1570	30167	0.00308	0.002072	-0.00209	0.0070281	0.0028462	28597
1530	0.000	1.57	9.1694	7.2237	3.1085	22.1116	8.2527	1570	30249	0.003109	0.002091	-0.00211	0.0070522	0.0028310	28679
1535	0.000	1.57	9.1922	7.2536	3.1393	22.1748	8.2790	1570	30331	0.003139	0.002112	-0.00213	0.0070753	0.0028123	28761
1540	0.000	1.57	9.2182	7.2808	3.1696	22.2381	8.3054	1570	30413	0.00317	0.002132	-0.00215	0.0070985	0.0027944	28843
1545	0.000	1.57	9.2476	7.2999	3.2003	22.2987	8.3323	1570	30491	0.0032	0.002153	-0.00217	0.0071224	0.0027766	28921
1550	0.000	1.57	9.2704	7.3325	3.2331	22.3585	8.3604	1570	30569	0.003233	0.002175	-0.00220	0.0071475	0.0027572	28999
1555	0.000	1.57	9.2964	7.3597	3.2661	22.4192	8.3873	1570	30648	0.003266	0.002197	-0.00222	0.0071714	0.0027363	29078
1560	0.000	1.57	9.3257	7.3842	3.2973	22.4756	8.4142	1570	30721	0.003297	0.002218	-0.00224	0.0071956	0.0027181	29151
1565	0.000	1.57	9.3485	7.4196	3.3317	22.5329	8.4408	1570	30795	0.003332	0.002241	-0.00226	0.0072193	0.0026951	29225
1570	0.000	1.57	9.3811	7.4468	3.3631	22.5919	8.4671	1570	30872	0.003363	0.002262	-0.00228	0.0072428	0.0026759	29302
1575	0.000	1.57	9.4006	7.4713	3.3955	22.6457	8.4930	1570	30941	0.003396	0.002284	-0.00231	0.0072660	0.0026552	29371
1580	0.000	1.57	9.4299	7.4957	3.4284	22.6970	8.5198	1570	31008	0.003429	0.002306	-0.00233	0.0072904	0.0026348	29438
1585	0.000	1.57	9.4495	7.5257	3.4603	22.7491	8.5464	1570	31075	0.00346	0.002328	-0.00235	0.0073145	0.0026156	29505
1590	0.000	1.57	9.4788	7.5529	3.4911	22.7987	8.5740	1570	31140	0.003491	0.002349	-0.00237	0.0073388	0.0025991	29570
1595	0.000	1.57	9.4983	7.5883	3.5241	22.8474	8.6010	1570	31203	0.003524	0.002371	-0.00239	0.0073645	0.0025790	29633
1600	0.000	1.57	9.5211	7.6182	3.5557	22.8995	8.6281	1570	31270	0.003556	0.002392	-0.00241	0.0073891	0.0025607	29700
1605	0.000	1.57	9.5439	7.6482	3.5870	22.9542	8.6553	1570	31341	0.003587	0.002413	-0.00244	0.0074137	0.0025428	29771
1610	0.000	1.57	9.5733	7.6781	3.6200	23.0097	8.6820	1570	31413	0.00362	0.002435	-0.00246	0.0074377	0.0025220	29843
1615	0.000	1.57	9.5961	7.7053	3.6551	23.0670	8.7083	1570	31488	0.003655	0.002459	-0.00248	0.0074612	0.0024978	29918
1620	0.000	1.57	9.6221	7.7353	3.6884	23.1251	8.7344	1570	31563	0.003689	0.002481	-0.00250	0.0074844	0.0024758	29993
1625	0.000	1.57	9.6547	7.7570	3.7231	23.1849	8.7608	1570	31641	0.003723	0.002505	-0.00253	0.0075078	0.0024521	30071
1630	0.000	1.57	9.6775	7.7815	3.7571	23.2439	8.7869	1570	31717	0.003757	0.002527	-0.00255	0.0075309	0.0024291	30147
1635	0.000	1.57	9.7003	7.8142	3.7919	23.2986	8.8139	1570	31788	0.003792	0.002551	-0.00257	0.0075553	0.0024062	30218
1640	0.000	1.57	9.7264	7.8360	3.8267	23.3199	8.8408	1570	31816	0.003827	0.002574	-0.00260	0.0075816	0.0023853	30246
1645	0.000	1.57	9.7557	7.8660	3.8617	23.3268	8.8683	1570	31825	0.003862	0.002598	-0.00262	0.0076094	0.0023655	30255
1650	0.000	1.57	9.7817	7.8905	3.8968	23.4070	8.8948	1570	31929	0.003897	0.002621	-0.00265	0.0076317	0.0023401	30359
1655	0.000	1.57	9.8143	7.9150	3.9320	23.4528	8.9212	1570	31988	0.003932	0.002645	-0.00267	0.0076560	0.0023166	30418
1660	0.000	1.57	9.8469	7.9368	3.9675	23.4986	8.9480	1570	32048	0.003968	0.002669	-0.00269	0.0076807	0.0022931	30478
1665	0.000	1.57	9.8730	7.9640	4.0031	23.5444	8.9750	1570	32107	0.004003	0.002693	-0.00272	0.0077056	0.0022697	30537
1670	0.000	1.57	9.8925	7.9940	4.0389	23.5903	9.0013	1570	32166	0.004039	0.002717	-0.00274	0.0077298	0.0022453	30596
1675	0.000	1.57	9.9153	8.0212	4.0748	23.6361	9.0286	1570	32226	0.004075	0.002741	-0.00277	0.0077550	0.0022217	30656
1680	0.000	1.57	9.9218	8.0575	4.1129	23.6819	9.0561	1570	32285	0.004113	0.002767	-0.00279	0.0077805	0.0021954	30715
1685	0.000	1.57	9.9153	8.1384	4.1584	23.7277	9.0823	1570	32345	0.004159	0.002797	-0.00282	0.0078045	0.0021577	30775
1690	0.000	1.57	9.9316	8.1683	4.2022	23.7735	9.1087	1570	32404	0.004202	0.002827	-0.00285	0.0078287	0.0021225	30834
1695	0.000	1.57	9.9609	8.1983	4.2419	23.8193	9.1364	1570	32464	0.004242	0.002854	-0.00288	0.0078544	0.0020942	30894
1700	0.000	1.57	9.9837	8.2283	4.2837	23.8652	9.1622	1570	32523	0.004284	0.002882	-0.00291	0.0078781	0.0020612	30953
1705	0.000	1.57	10.0065	8.2528	4.3249	23.9110	9.1891	1570	32582	0.004325	0.002909	-0.00294	0.0079028	0.0020299	31012
1710	0.000	1.57	10.0261	8.2910	4.3662	23.9653	9.2170	1570	32653	0.004366	0.002937	-0.00296	0.0079282	0.0019992	31083
1715	0.000	1.57	10.0587	8.3182	4.4070	24.0072	9.2443	1570	32707	0.004407	0.002965	-0.00299	0.0079536	0.0019693	31137
1720	0.000	1.57	10.0750	8.3428	4.4476	24.0482	9.2705	1570	32760	0.004448	0.002992	-0.00302	0.0079780	0.0019385	31190
1725	0.000	1.57	10.1075	8.3728	4.4907	24.0893	9.2976	1570	32814	0.004491	0.003021	-0.00305	0.0080033	0.0019053	31244
1730	0.000	1.57	10.1336	8.4055	4.5313	24.1328	9.3241	1570	32870	0.004531	0.003048	-0.00308	0.0080278	0.0018746	31300
1735	0.000	1.57	10.1597	8.4300	4.5709	24.1790	9.3501	1570	32930	0.004571	0.003075	-0.00310	0.0080517	0.0018447	31360
1740	0.000	1.57	10.1792	8.4600	4.6119	24.2226	9.3763	1570	32987	0.004612	0.003102	-0.00313	0.0080759	0.0018133	31417
1745	0.000	1.57	10.1988	8.4900	4.6515	24.2696	9.4028	1570	33047	0.004652	0.003129	-0.00316	0.0081002	0.0017838	31477
1750	0.000	1.57	10.2248	8.5200	4.6909	24.3166	9.4308	1570	33108	0.004691	0.003156	-0.00318	0.0081260	0.0017562	31538
1755	0.000	1.57	10.2574	8.5418	4.7332	24.3610	9.4585	1570	33166	0.004733	0.003184	-0.00321	0.0081518	0.0017245	31596
1760	0.000	1.57	10.2770	8.5745	4.7746	24.4020	9.4851	1570	33219	0.004775	0.003212	-0.00324	0.0081766	0.0016931	31649
1765	0.000	1.57	10.2998	8.6045	4.8158	24.4490	9.5130	1570	33280	0.004816	0.00324	-0.00327	0.0082023	0.0016629	31710
1770	0.000	1.57	10.3259	8.6427	4.8579	24.4943	9.5401	1570	33339	0.004858	0.003268	-0.00330	0.0082273	0.0016307	31769
1775	0.000	1.57	10.3519	8.6700	4.8987	24.5362	9.5665	1570	33393	0.004899	0.003295	-0.00333	0.0082519	0.0015999	31823
1780	0.000	1.57	10.3682	8.6973	4.9398	24.5798	9.5929	1570	33450	0.00494	0.003323	-0.00335	0.0082764	0.0015685	31880
1785	0.000	1.57	10.3976	8.7328	4.9825	24.6259	9.6203	1570	33510	0.004983	0.003352	-0.00338	0.0083016	0.0015358	31940
1790	0.000														

Formation Brine Salinity

Company: **Apache Corporation**
Well: University Lands 57-65 #1H
Location: Schleicher County, Texas

Date: 22-Mar-2013
File: Hou-121499
Analyst(s): CS, CR

Sample No.	Depth	Core Water by Weight Loss Total	Chloride as-is	Equivalent Calculated NaCl, mg/L	Resistivity Ohm-meters @ 77F
	feet	cc	mg/l	as-is	as-is
9	5041.00	2.51	48020	79175	0.09
28	5180.50	1.98	61169	100855	0.07