

Period	GTS stage	GTS age	meters	d13C	d18O	add data source
Cambrian	stage 4					
Cambrian	stage 5	510	0	-2.70	-14.18	
Cambrian	stage 5	509.98202	1.5	0.37	-13.12	
Cambrian	stage 5	509.94606	4.5	-0.07	-11.81	
Cambrian	stage 5	509.9101	7.5	0.33	-15.27	
Cambrian	stage 5	509.89212	9	-0.01	-15.93	
Cambrian	stage 5	509.87414	10.5	-0.41	-16.01	
Cambrian	stage 5	509.75428	20.5	-0.35	-12.48	
Cambrian	stage 5	509.7363	22	-0.46	-17.15	
Cambrian	stage 5	509.61644	32	-0.47	-16.51	
Cambrian	stage 5	509.59247	34	-0.53	-15.04	
Cambrian	stage 5	509.53853	38.5	-0.86	-15.72	
Cambrian	stage 5	509.49658	42	-1.75	-13.74	
Cambrian	stage 5	509.44264	46.5	-0.92	-13.23	
Cambrian	stage 5	509.3887	51	-1.05	-10.88	
Cambrian	stage 5	509.33476	55.5	-0.89	-10.18	
Cambrian	stage 5	509.28082	60	-0.99	-12.04	
Cambrian	stage 5	509.22688	64.5	-0.56	-12.80	
Cambrian	stage 5	509.17295	69	-0.18	-12.42	
Cambrian	stage 5	509.11901	73.5	-0.36	-12.71	
Cambrian	stage 5	509.06507	78	-0.86	-11.81	
Cambrian	stage 5	509.01113	82.5	-0.26	-12.39	
Cambrian	stage 5	508.95719	87	-0.08	-11.28	
Cambrian	stage 5	508.90325	91.5	-0.99	-12.26	
Cambrian	stage 5	508.84932	96	-0.63	-11.51	
Cambrian	stage 5	508.79538	100.5	-1.05	-11.87	
Cambrian	stage 5	508.74144	105	-0.34	-13.46	
Cambrian	stage 5	508.6875	109.5	-0.59	-12.42	
Cambrian	stage 5	508.63356	114	-0.12	-10.11	
Cambrian	stage 5	508.57962	118.5	-0.64	-11.93	

Cambrian	stage 5	508.52568	123	-0.59	-12.35
Cambrian	stage 5	508.47175	127.5	-0.50	-12.42
Cambrian	stage 5	508.41781	132	-0.45	-12.18
Cambrian	stage 5	508.36387	136.5	-0.37	-13.08
Cambrian	stage 5	508.30993	141	-0.41	-11.84
Cambrian	stage 5	508.25599	145.5	-0.62	-10.70
Cambrian	stage 5	508.20205	150	-0.41	-11.07
Cambrian	stage 5	508.09418	159	-0.17	-12.27
Cambrian	stage 5	508.04024	163.5	-0.13	-11.53
Cambrian	stage 5	507.9863	168	-0.07	-11.71
Cambrian	stage 5	507.93236	172.5	-0.09	-12.11
Cambrian	stage 5	507.9024	175	-0.53	-12.80
Cambrian	stage 5	507.84846	179.5	-0.62	-13.11
Cambrian	stage 5	507.79452	184	-0.72	-12.21
Cambrian	stage 5	507.74058	188.5	-0.57	-12.02
Cambrian	stage 5	507.68664	193	-0.36	-11.75
Cambrian	stage 5	507.63271	197.5	-0.52	-12.19
Cambrian	stage 5	507.57877	202	-0.39	-11.50
Cambrian	stage 5	507.52483	206.5	-0.13	-11.29
Cambrian	stage 5	507.47089	211	-0.28	-9.86
Cambrian	stage 5	507.41695	215.5	-0.23	-11.25
Cambrian	stage 5	507.36301	220	-0.27	-10.49
Cambrian	stage 5	507.30908	224.5	-0.19	-11.07
Cambrian	stage 5	507.25514	229	-0.39	-11.08
Cambrian	stage 5	507.2012	233.5	-0.42	-12.49
Cambrian	stage 5	507.14726	238	0.09	-11.80
Cambrian	stage 5	507.09332	242.5	-0.40	-12.50
Cambrian	stage 5	507.06336	245	-0.64	-12.31
Cambrian	stage 5	507.01541	249	-2.09	-12.63
Cambrian	stage 5	506.94349	255	-1.37	-12.74
Cambrian	stage 5	506.91952	257	-0.70	-12.00

Cambrian	stage 5	506.89555	259	-0.72	-12.54
Cambrian	stage 5	506.87158	261	-0.17	-11.92
Cambrian	stage 5	506.8476	263	-0.03	-8.67
Cambrian	stage 5	506.82363	265	0.26	-9.70
Cambrian	stage 5	506.79966	267	-2.48	-12.80
Cambrian	stage 5	506.55993	287	-2.10	-11.01
Cambrian	stage 5	506.51	292	-0.01	-11.35
Cambrian	drumian	506.5	301	0.22	-11.48
Cambrian	drumian	506.4932	302.5	0.26	-13.21
Cambrian	drumian	506.48639	304	0.57	-10.88
Cambrian	drumian	506.46824	308	0.75	-10.03
Cambrian	drumian	506.44783	312.5	0.98	-10.85
Cambrian	drumian	506.42741	317	0.90	-11.58
Cambrian	drumian	506.407	321.5	1.12	-11.16
Cambrian	drumian	506.38658	326	1.12	-11.91
Cambrian	drumian	506.36617	330.5	0.99	-11.28
Cambrian	drumian	506.34576	335	1.28	-12.94
Cambrian	drumian	506.32534	339.5	0.75	-10.67
Cambrian	drumian	506.30493	344	0.76	-11.45
Cambrian	drumian	506.28451	348.5	0.72	-10.26
Cambrian	drumian	506.2641	353	0.18	-13.38
Cambrian	drumian	506.24368	357.5	0.65	-11.69
Cambrian	drumian	506.22327	362	0.55	-13.51
Cambrian	drumian	506.20285	366.5	0.52	-11.26
Cambrian	drumian	506.18244	371	0.77	-11.06
Cambrian	drumian	506.16202	375.5	0.67	-11.18
Cambrian	drumian	506.14161	380	0.50	-9.76
Cambrian	drumian	506.12119	384.5	0.35	-10.81
Cambrian	drumian	506.10078	389	0.20	-10.26
Cambrian	drumian	506.08036	393.5	0.23	-11.46
Cambrian	drumian	506.05995	398	0.06	-10.70

Cambrian	drumian	506.03953	402.5	-0.01	-10.42
Cambrian	drumian	506.01912	407	0.17	-10.58
Cambrian	drumian	505.9987	411.5	0.14	-10.16
Cambrian	drumian	505.97829	416	0.09	-10.26
Cambrian	drumian	505.95787	420.5	-0.06	-10.45
Cambrian	drumian	505.92839	427	-0.60	-11.33
Cambrian	drumian	505.91931	429	-0.60	-11.30
Cambrian	drumian	505.91024	431	-0.17	-10.77
Cambrian	drumian	505.89209	435	-0.62	-11.53
Cambrian	drumian	505.8989	433.5	-1.57	-11.38
Cambrian	drumian	505.87395	439	-0.78	-11.20
Cambrian	drumian	505.849	444.5	-0.83	-10.71
Cambrian	drumian	505.84219	446	-1.03	-11.22
Cambrian	drumian	505.83312	448	-1.58	-11.33
Cambrian	drumian	505.81951	451	-1.52	-11.26
Cambrian	drumian	505.78775	458	-1.14	-11.18
Cambrian	drumian	505.75146	466	0.05	-14.33
Cambrian	drumian	505.74465	467.5	-0.06	-12.42
Cambrian	drumian	505.73104	470.5	-0.06	-10.74
Cambrian	drumian	505.70382	476.5	-0.35	-10.53
Cambrian	drumian	505.68341	481	-0.25	-10.74
Cambrian	drumian	505.6698	484	-0.27	-10.70
Cambrian	drumian	505.65619	487	-0.48	-10.36
Cambrian	drumian	505.63577	491.5	-0.44	-11.33
Cambrian	drumian	505.62897	493	-0.23	-10.17
Cambrian	drumian	505.60855	497.5	0.01	-11.06
Cambrian	drumian	505.58814	502	0.12	-10.11
Cambrian	drumian	505.56092	508	-0.17	-11.75
Cambrian	drumian	505.55412	509.5	-0.50	-11.28
Cambrian	drumian	505.5337	514	-0.84	-10.21
Cambrian	drumian	505.51329	518.5	-0.94	-11.34

Cambrian	drumian	505.50648	520	-1.46	-10.76
Cambrian	drumian	505.49968	521.5	-0.28	-13.00
Cambrian	drumian	505.49287	523	1.01	-9.35
Cambrian	drumian	505.47472	527.0	1.03	-9.94
Cambrian	drumian	505.40214	543.0	0.74	-7.04
Cambrian	drumian	505.37946	548	0.48	-8.37
Cambrian	drumian	505.37265	549.5	0.28	-8.48
Cambrian	drumian	505.36585	551	0.56	-9.43
Cambrian	drumian	505.35224	554	0.34	-8.67
Cambrian	drumian	505.33863	557	0.52	-8.63
Cambrian	drumian	505.32502	560	0.39	-9.01
Cambrian	drumian	505.2978	566	0.31	-9.22
Cambrian	drumian	505.28419	569	0.44	-9.25
Cambrian	drumian	505.26377	573.5	0.08	-9.16
Cambrian	drumian	505.24336	578	-1.23	-8.63
Cambrian	drumian	505.22975	581	-0.06	-9.28
Cambrian	drumian	505.20706	586	0.39	-9.29
Cambrian	drumian	505.20253	587	-2.01	-9.29
Cambrian	drumian	505.20026	587.5	0.16	-9.08
Cambrian	drumian	505.18892	590	0.12	-9.37
Cambrian	drumian	505.18211	591.5	0.33	-9.72
Cambrian	drumian	505.17531	593	0.12	-9.08
Cambrian	drumian	505.1685	594.5	0.55	-8.70
Cambrian	drumian	505.14809	599	0.70	-10.09
Cambrian	drumian	505.14128	600.5	0.29	-8.82
Cambrian	drumian	505.13448	602	0.83	-9.57
Cambrian	drumian	505.12767	603.5	0.60	-10.40
Cambrian	drumian	505.12087	605	0.59	-11.08
Cambrian	drumian	505.11633	606	0.27	-9.79
Cambrian	drumian	505.10726	608	0.56	-8.95
Cambrian	drumian	505.0755	615	-0.32	-11.26

Cambrian	drumian	505.06189	618	0.23	-11.20
Cambrian	drumian	505.0256	626	0.23	-11.72
Cambrian	drumian	505.01199	629	0.38	-15.19
Cambrian	drumian	504.99838	632	0.50	-12.05
Cambrian	drumian	504.98477	635	0.23	-14.54
Cambrian	drumian	504.97116	638	0.45	-16.03
Cambrian	drumian	504.95755	641	-0.73	-12.53
Cambrian	drumian	504.94394	644	0.04	-14.40
Cambrian	drumian	504.93033	647	0.45	-11.72
Cambrian	drumian	504.91672	650	0.35	-10.88
Cambrian	drumian	504.90311	653	0.41	-10.53
Cambrian	drumian	504.8895	656	0.48	-11.42
Cambrian	drumian	504.87589	659	0.65	-10.97
Cambrian	drumian	504.86228	662	0.60	-10.59
Cambrian	drumian	504.84867	665	0.46	-11.07
Cambrian	drumian	504.83506	668	1.25	-14.33
Cambrian	drumian	504.81465	672.5	0.26	-13.76
Cambrian	drumian	504.74433	688	0.42	-15.08
Cambrian	drumian	504.72391	692.5	1.02	-12.38
Cambrian	drumian	504.7035	697	0.52	-10.70
Cambrian	drumian	504.66267	706	0.09	-13.34
Cambrian	drumian	504.64906	709	0.43	-11.68
Cambrian	drumian	504.61277	717	-0.29	-14.71
Cambrian	drumian	504.59235	721.5	-0.10	-11.12
Cambrian	drumian	504.57194	726	0.05	-11.30
Cambrian	drumian	504.55152	730.5	0.04	-10.87
Cambrian	drumian	504.53111	735	0.46	-11.03
Cambrian	drumian	504.51069	739.5	0.24	-10.61
Cambrian	drumian	504.49028	744	0.29	-10.46
Cambrian	drumian	504.46986	748.5	0.36	-10.36
Cambrian	drumian	504.44945	753	0.21	-12.09

Cambrian	drumian	504.42903	757.5	0.16	-13.69
Cambrian	drumian	504.40862	762	0.35	-10.98
Cambrian	drumian	504.3882	766.5	0.04	-11.06
Cambrian	drumian	504.36779	771	0.43	-11.10
Cambrian	drumian	504.34738	775.5	0.33	-11.28
Cambrian	drumian	504.32696	780	0.53	-10.39
Cambrian	drumian	504.30655	784.5	0.51	-10.85
Cambrian	drumian	504.28613	789	0.57	-10.59
Cambrian	drumian	504.26572	793.5	0.55	-10.86
Cambrian	drumian	504.2453	798	0.47	-11.74
Cambrian	drumian	504.22489	802.5	0.32	-11.71
Cambrian	drumian	504.20447	807	0.39	-10.84
Cambrian	drumian	504.18406	811.5	1.00	-11.08
Cambrian	drumian	504.16364	816	0.31	-10.81
Cambrian	drumian	504.14323	820.5	0.58	-11.88
Cambrian	drumian	504.12281	825	-0.02	-10.93
Cambrian	drumian	504.1024	829.5	-0.57	-10.89
Cambrian	drumian	504.08198	834	-0.53	-10.75
Cambrian	drumian	504.06157	838.5	0.78	-12.31
Cambrian	drumian	504.04115	843	0.01	-12.23
Cambrian	drumian	504.00032	852	0.29	-10.40
Cambrian	drumian	503.97991	856.5	0.30	-10.75
Cambrian	drumian	503.95949	861	0.25	-10.89
Cambrian	drumian	503.93908	865.5	0.49	-10.61
Cambrian	drumian	503.91866	870	0.27	-11.03
Cambrian	drumian	503.89825	874.5	0.12	-10.79
Cambrian	drumian	503.87784	879	0.55	-11.28
Cambrian	drumian	503.85742	883.5	0.30	-11.20
Cambrian	drumian	503.83701	888	0.33	-10.96
Cambrian	drumian	503.81659	892.5	-0.07	-11.53
Cambrian	drumian	503.79618	897	0.99	-12.13

Cambrian	drumian	503.77576	901.5	0.70	-11.78
Cambrian	drumian	503.75535	906	0.77	-12.63
Cambrian	drumian	503.73493	910.5	0.69	-10.94
Cambrian	drumian	503.71452	915	2.00	-11.77
Cambrian	drumian	503.6941	919.5	1.16	-12.41
Cambrian	drumian	503.67369	924	0.34	-9.92
Cambrian	drumian	503.65327	928.5	0.72	-10.34
Cambrian	drumian	503.63286	933	0.51	-10.70
Cambrian	drumian	503.59203	942	0.78	-11.12
Cambrian	drumian	503.57161	946.5	1.08	-12.08
Cambrian	drumian	503.5512	951	0.47	-11.94
Cambrian	drumian	503.53078	955.5	1.02	-12.61
Cambrian	drumian	503.51037	960	1.07	-13.03
Cambrian	drumian	503.46954	969	0.77	-12.07
Cambrian	drumian	503.42871	978	0.88	-13.87
Cambrian	drumian	503.4083	982.5	0.69	-12.63
Cambrian	drumian	503.36747	991.5	1.33	-11.25
Cambrian	drumian	503.34705	996	0.65	-12.68
Cambrian	drumian	503.30622	1005	1.07	-12.05
Cambrian	drumian	503.26539	1014	-0.04	-11.14
Cambrian	drumian	503.20415	1027.5	-0.08	-10.79
Cambrian	drumian	503.16332	1036.5	-0.09	-11.50
Cambrian	drumian	503.1429	1041	-0.21	-11.30
Cambrian	drumian	503.04083	1063.5	-0.41	-12.05
Cambrian	drumian	503.01	1072.5	0.24	-13.45
Cambrian	Guzhangian	503	1077	-0.97	-12.66
Cambrian	Guzhangian	502.94218	1086	-0.07	-14.88
Cambrian	Guzhangian	502.91327	1090.5	0.71	-10.64
Cambrian	Guzhangian	502.88436	1095	-1.21	-10.48
Cambrian	Guzhangian	502.85544	1099.5	0.45	-13.22
Cambrian	Guzhangian	502.82653	1104	0.14	-14.10

Cambrian	Guzhangian	502.79762	1108.5	0.14	-12.39
Cambrian	Guzhangian	502.76871	1113	0.12	-12.86
Cambrian	Guzhangian	502.7398	1117.5	-0.23	-16.75
Cambrian	Guzhangian	502.68198	1126.5	-1.39	-14.82
Cambrian	Guzhangian	502.59525	1140	-1.02	-15.25
Cambrian	Guzhangian	502.56633	1144.5	-1.03	-11.92
Cambrian	Guzhangian	502.50851	1153.5	-1.46	-11.71
Cambrian	Guzhangian	502.42178	1167	-1.28	-11.74
Cambrian	Guzhangian	502.39287	1171.5	-0.87	-13.45
Cambrian	Guzhangian	502.33183	1181	-0.54	-11.31
Cambrian	Guzhangian	502.29329	1187	-0.74	-10.98
Cambrian	Guzhangian	502.25474	1193	-1.49	-15.57
Cambrian	Guzhangian	502.21619	1199	-1.21	-12.58
Cambrian	Guzhangian	502.17764	1205	-1.30	-13.20
Cambrian	Guzhangian	502.13909	1211	-0.82	-11.31
Cambrian	Guzhangian	502.062	1223	-0.21	-11.63
Cambrian	Guzhangian	502.02345	1229	-0.39	-11.38
Cambrian	Guzhangian	501.9849	1235	-0.95	-12.22
Cambrian	Guzhangian	501.94635	1241	-0.69	-13.32
Cambrian	Guzhangian	501.86926	1253	0.74	-11.17
Cambrian	Guzhangian	501.79216	1265	-0.05	-11.65
Cambrian	Guzhangian	501.75361	1271	-0.99	-12.15
Cambrian	Guzhangian	501.71507	1277	-1.10	-12.52
Cambrian	Guzhangian	501.67652	1283	-0.78	-12.95
Cambrian	Guzhangian	501.63797	1289	-0.27	-11.92
Cambrian	Guzhangian	501.59942	1295	-0.21	-12.02
Cambrian	Guzhangian	501.56087	1301	-1.65	-11.92
Cambrian	Guzhangian	501.48378	1313	-1.01	-12.93
Cambrian	Guzhangian	501.44523	1319	-0.86	-12.91
Cambrian	Guzhangian	501.40668	1325	-0.77	-12.80
Cambrian	Guzhangian	501.36813	1331	-0.62	-14.14

Cambrian	Guzhangian	501.32959	1337	-0.23	-14.98
Cambrian	Guzhangian	501.29104	1343	-0.91	-12.40
Cambrian	Guzhangian	501.25249	1349	-0.19	-12.30
Cambrian	Guzhangian	501.21394	1355	-0.25	-12.08
Cambrian	Guzhangian	501.13685	1367	-0.60	-11.98
Cambrian	Guzhangian	501.0212	1385	-0.69	-12.66
Cambrian	Guzhangian	500.86701	1409	-0.79	-12.04
Cambrian	Guzhangian	500.82846	1415	-1.08	-11.87
Cambrian	Guzhangian	500.78349	1422	-0.24	-9.68
Cambrian	Guzhangian	500.75137	1427	-0.51	-10.32
Cambrian	Guzhangian	500.71924	1432	-0.60	-10.65
Cambrian	Guzhangian	500.68712	1437	-0.43	-9.45
Cambrian	Guzhangian	500.655	1442	-0.46	-10.67
Cambrian	Guzhangian	500.62287	1447	-0.44	-9.94
Cambrian	Guzhangian	500.59075	1452	-0.29	-10.38
Cambrian	Guzhangian	500.55863	1457	-0.54	-10.95
Cambrian	Guzhangian	500.5265	1462	-0.33	-10.62
Cambrian	Guzhangian	500.49438	1467	-0.17	-10.36
Cambrian	Guzhangian	500.46226	1472	-0.18	-10.07
Cambrian	Guzhangian	500.43013	1477	-0.31	-10.27
Cambrian	Guzhangian	500.39801	1482	0.22	-9.97
Cambrian	Guzhangian	500.36588	1487	0.41	-9.04
Cambrian	Guzhangian	500.33376	1492	0.45	-9.07
Cambrian	Guzhangian	500.30164	1497	0.23	-9.67
Cambrian	Guzhangian	500.26951	1502	0.22	-9.24
Cambrian	Guzhangian	500.23739	1507	0.43	-9.51
Cambrian	Guzhangian	500.20527	1512	0.61	-9.42
Cambrian	Guzhangian	500.17314	1517	0.56	-9.49
Cambrian	Guzhangian	500.14102	1522	0.58	-9.28
Cambrian	Guzhangian	500.1089	1527	0.60	-9.31
Cambrian	Guzhangian	500.07677	1532	0.70	-9.30

Cambrian	Guzhangian	500.04465	1537	0.69	-9.39
Cambrian	Guzhangian	500.01253	1542	0.50	-9.44
Cambrian	Guzhangian	499.9804	1547	0.63	-9.59
Cambrian	Guzhangian	499.94828	1552	0.73	-9.04
Cambrian	Guzhangian	499.91616	1557	0.75	-9.20
Cambrian	Guzhangian	499.88403	1562	0.93	-8.88
Cambrian	Guzhangian	499.85191	1567	0.71	-9.39
Cambrian	Guzhangian	499.81979	1572	0.80	-9.33
Cambrian	Guzhangian	499.73627	1585	0.61	-10.30
Cambrian	Guzhangian	499.71699	1588	0.69	-9.75
Cambrian	Guzhangian	499.69772	1591	0.46	-9.74
Cambrian	Guzhangian	499.68487	1593	0.67	-9.09
Cambrian	Guzhangian	499.67845	1594	0.82	-12.46
Cambrian	Guzhangian	499.66945	1595.4	0.57	-12.96
Cambrian	Guzhangian	499.66046	1596.8	0.49	-9.6
Cambrian	Guzhangian	499.65146	1598.2	0.24	-10.39
Cambrian	Guzhangian	499.56152	1612.2	0.32	-9.54
Cambrian	Guzhangian	499.50755	1620.6	0.44	-9.4
Cambrian	Guzhangian	499.48956	1623.4	0.3	-9.2
Cambrian	Guzhangian	499.46258	1627.6	0.66	-9.82
Cambrian	Guzhangian	499.43559	1631.8	0.02	-9.49
Cambrian	Guzhangian	499.4266	1633.2	0.45	-9.68
Cambrian	Guzhangian	499.4176	1634.6	0.18	-9.09
Cambrian	Guzhangian	499.40861	1636	0.1	-9.14
Cambrian	Guzhangian	499.39961	1637.4	-0.41	-9.65
Cambrian	Guzhangian	499.30967	1651.4	0.69	-9.7
Cambrian	Guzhangian	499.24671	1661.2	0.34	-13.08
Cambrian	Guzhangian	499.23771	1662.6	0.42	-8.98
Cambrian	Guzhangian	499.18375	1671	0.47	-9.08
Cambrian	Guzhangian	499.17475	1672.4	0.5	-9.51
Cambrian	Guzhangian	499.14777	1676.6	0.37	-9.74

Cambrian	Guzhangian	499.13428	1678.7	0.28	-9.83
Cambrian	Guzhangian	499.12978	1679.4	0.08	-9.66
Cambrian	Guzhangian	499.08481	1686.4	0.11	-10.25
Cambrian	Guzhangian	499.07581	1687.8	0.77	-9.88
Cambrian	Guzhangian	499.05782	1690.6	0.31	-9.16
Cambrian	Guzhangian	499.05525	1691	0.47	-9.78
Cambrian	Guzhangian	499.04883	1692	0.27	-9.4
Cambrian	Guzhangian	499.04176	1693.1	0.41	-9.29
Cambrian	Guzhangian	499.03983	1693.4	0.53	-9.55
Cambrian	Guzhangian	499.03855	1693.6	0.2	-9.12
Cambrian	Guzhangian	499.0257	1695.6	0.73	-9.42
Cambrian	Guzhangian	499.0212	1696.3	0.46	-9.31
Cambrian	Guzhangian	499.01799	1696.8	0.26	-9.23
Cambrian	Guzhangian	499.01478	1697.3	0.49	-9.28
Cambrian	Guzhangian	499.01285	1697.6	0.25	-9.49
Cambrian	Guzhangian	499.01221	1697.7	0.53	-9.14
Cambrian	Guzhangian	499.01028	1698	0.37	-9.7
Cambrian	Guzhangian	499.00642	1698.6	0.51	-9.52
Cambrian	Guzhangian	499.00385	1699	0.42	-10.22
Cambrian	Guzhangian	499.01	1699.6	0.98	-9.73
Cambrian	Paibian	499	1700	0.97	-11.03
Cambrian	Paibian	498.9989	1700.1	1.05	-9.2
Cambrian	Paibian	498.9824	1701.6	0.61	-9.17
Cambrian	Paibian	498.9714	1702.6	1.57	-7.77
Cambrian	Paibian	498.93949	1705.5	0.67	-9.27
Cambrian	Paibian	498.93399	1706	0.86	-9.43
Cambrian	Paibian	498.91859	1707.4	0.95	-10.27
Cambrian	Paibian	498.90319	1708.8	1.13	-10.01
Cambrian	Paibian	498.88779	1710.2	1.05	-10.5
Cambrian	Paibian	498.87239	1711.6	1.28	-10.26
Cambrian	Paibian	498.82618	1715.8	1.11	-11.74

Cambrian	Paibian	498.79538	1718.6	1.13	-10.85
Cambrian	Paibian	498.74917	1722.8	1.41	-10.27
Cambrian	Paibian	498.70297	1727	1.42	-10.23
Cambrian	Paibian	498.67217	1729.8	1.55	-9.87
Cambrian	Paibian	498.65677	1731.2	1.52	-9.25
Cambrian	Paibian	498.61056	1735.4	1.59	-10.2
Cambrian	Paibian	498.59516	1736.8	1.98	-9.81
Cambrian	Paibian	498.57976	1738.2	1.71	-10.12
Cambrian	Paibian	498.56436	1739.6	2.18	-9.78
Cambrian	Paibian	498.54895	1741	2.12	-10.41
Cambrian	Paibian	498.53355	1742.4	1.86	-10.3
Cambrian	Paibian	498.51815	1743.8	1.19	-7.58
Cambrian	Paibian	498.47503	1747.72	1.92	-9.39
Cambrian	Paibian	498.47195	1748	1.93	-9.1
Cambrian	Paibian	498.45655	1749.4	1.64	-10.59
Cambrian	Paibian	498.42574	1752.2	2.76	-9.39
Cambrian	Paibian	498.41034	1753.6	2.33	-9.57
Cambrian	Paibian	498.39494	1755	2.15	-9.85
Cambrian	Paibian	498.37954	1756.4	2.33	-9.76
Cambrian	Paibian	498.34873	1759.2	2.33	-9.14
Cambrian	Paibian	498.31793	1762	2.38	-9.84
Cambrian	Paibian	498.28713	1764.8	2.25	-9.05
Cambrian	Paibian	498.27173	1766.2	2.79	-13.14
Cambrian	Paibian	498.24092	1769	2.59	-10.47
Cambrian	Paibian	498.22552	1770.4	2.8	-9.38
Cambrian	Paibian	498.19472	1773.2	3.13	-11.13
Cambrian	Paibian	498.16392	1776	3.18	-8.25
Cambrian	Paibian	498.13311	1778.8	4.19	-11.83
Cambrian	Paibian	498.10231	1781.6	3.11	-10.85
Cambrian	Paibian	498.07151	1784.4	3.23	-10.6
Cambrian	Paibian	498.05611	1785.8	2.91	-14.34

Cambrian	Paibian	497.88669	1801.2	3.5	-12.58
Cambrian	Paibian	497.84048	1805.4	3.73	-11.69
Cambrian	Paibian	497.82508	1806.8	4.02	-9.75
Cambrian	Paibian	497.65567	1822.2	4.17	-9.92
Cambrian	Paibian	497.56326	1830.6	3.84	-8.72
Cambrian	Paibian	497.48625	1837.6	4	-9.36
Cambrian	Paibian	497.40924	1844.6	4.65	-8.69
Cambrian	Paibian	497.28603	1855.8	4.23	-10.75
Cambrian	Paibian	497.17822	1865.6	4.04	-9.81
Cambrian	Paibian	497.16282	1867	4.35	-9.12
Cambrian	Paibian	497.13201	1869.8	4.42	-9.24
Cambrian	Paibian	497.11353	1871.48	4.02	-9.42
Cambrian	Paibian	497.11199	1871.62	4.2	-9.18
Cambrian	Paibian	497.10121	1872.6	4.19	-9.12
Cambrian	Paibian	497.08581	1874	3.86	-9.62
Cambrian	Paibian	497.07041	1875.4	3.99	-9.96
Cambrian	Paibian	497.0396	1878.2	4.3	-9.1
Cambrian	Paibian	497.0319	1878.9	4.52	-9.43
Cambrian	Paibian	497.0242	1879.6	3.95	-10.54
Cambrian	Paibian	497.0165	1880.3	4.34	-9.09
Cambrian	Paibian	497.0088	1881	4.1	-9.03
Cambrian	Paibian	496.9934	1882.4	3.17	-13.13
Cambrian	Paibian	496.93487	1887.72	4.65	-9.33
Cambrian	Paibian	496.93179	1888	4.54	-9.69
Cambrian	Paibian	496.92255	1888.84	4.42	-9.21
Cambrian	Paibian	496.91639	1889.4	4.16	-9.21
Cambrian	Paibian	496.90099	1890.8	3.61	-9.24
Cambrian	Paibian	496.89175	1891.64	3.85	-8.97
Cambrian	Paibian	496.88559	1892.2	4.09	-8.95
Cambrian	Paibian	496.87019	1893.6	3.97	-8.8
Cambrian	Paibian	496.85479	1895	3.33	-9.36

Cambrian	Paibian	496.83168	1897.1	2.96	-10.16
Cambrian	Paibian	496.82706	1897.52	3.27	-9.63
Cambrian	Paibian	496.80858	1899.2	3.11	-9.88
Cambrian	Paibian	496.79318	1900.6	3.7	-9.46
Cambrian	Paibian	496.73157	1906.2	3.06	-10.66
Cambrian	Paibian	496.71617	1907.6	2.64	-9.64
Cambrian	Paibian	496.70077	1909	2.6	-9.91
Cambrian	Paibian	496.65457	1913.2	2.37	-9.31
Cambrian	Paibian	496.63608	1914.88	3.59	-11.44
Cambrian	Paibian	496.62838	1915.58	2.4	-7.75
Cambrian	Paibian	496.60836	1917.4	1.66	-9.15
Cambrian	Paibian	496.42354	1934.2	1.11	-9.45
Cambrian	Paibian	496.34653	1941.2	0.68	-9.52
Cambrian	Paibian	496.26953	1948.2	0.67	-8.97
Cambrian	Paibian	496.16942	1957.3	0.71	-9.22
Cambrian	Paibian	496.0385	1969.2	0.72	-9.04
Cambrian	Paibian	496.0297	1970	0.75	-9.28
Cambrian	Paibian	496.0286	1970.1	1.02	-9.04
Cambrian	Paibian	496.0275	1970.2	0.89	-9.2
Cambrian	Paibian	496.022	1970.7	1.09	-9.28
Cambrian	Paibian	496.0209	1970.8	0.91	-10.47
Cambrian	Paibian	496.0165	1971.2	1.24	-9.07
Cambrian	Paibian	496.01	1972.7	1.37	-9.21
Cambrian	stage 9,10	496	1973.9	2.55	-9.27
Cambrian	stage 9,10	495.99198	1974.2	2.55	-9.21
Cambrian	stage 9,10	495.97862	1974.7	2.76	-9.02
Cambrian	stage 9,10	495.95189	1975.7	1.54	-8.77
Cambrian	stage 9,10	495.83162	1980.2	1.46	-8.73
Cambrian	stage 9,10	495.75144	1983.2	1.16	-8.48
Cambrian	stage 9,10	495.67126	1986.2	1.07	-11.2
Cambrian	stage 9,10	495.63117	1987.7	1.21	-9.06

Cambrian	stage 9,10	495.57103	1989.95	1.34	-10.45
Cambrian	stage 9,10	495.5109	1992.2	0.96	-10.97
Cambrian	stage 9,10	495.47081	1993.7	1.15	-8.78
Cambrian	stage 9,10	495.43072	1995.2	1.35	-10.09
Cambrian	stage 9,10	495.39063	1996.7	1.21	-9.18
Cambrian	stage 9,10	495.35588	1998	0.91	-14.83
Cambrian	stage 9,10	495.11534	2007	0.82	-9.20
Cambrian	stage 9,10	495.03516	2010	0.63	-13.92
Cambrian	stage 9,10	494.66099	2024	0.70	-11.22
Cambrian	stage 9,10	494.54072	2028.5	0.40	-11.54
Cambrian	stage 9,10	494.42044	2033	0.61	-12.89
Cambrian	stage 9,10	494.30017	2037.5	0.35	-11.85
Cambrian	stage 9,10	494.1799	2042	0.22	-13.57
Cambrian	stage 9,10	494.05963	2046.5	0.90	-9.32
Cambrian	stage 9,10	493.89927	2052.5	1.27	-9.88
Cambrian	stage 9,10	493.779	2057	1.16	-10.03
Cambrian	stage 9,10	493.65873	2061.5	1.33	-9.99
Cambrian	stage 9,10	493.53846	2066	-0.70	-10.01
Cambrian	stage 9,10	493.41819	2070.5	2.59	-16.76
Cambrian	stage 9,10	493.29792	2075	0.62	-12.10
Cambrian	stage 9,10	493.17765	2079.5	0.80	-14.22
Cambrian	stage 9,10	493.01729	2085.5	0.78	-9.36
Cambrian	stage 9,10	492.77674	2094.5	0.95	-9.63
Cambrian	stage 9,10	492.65647	2099	0.58	-12.42
Cambrian	stage 9,10	492.38921	2109	1.13	-8.33
Cambrian	stage 9,10	492.26893	2113.5	1.00	-14.47
Cambrian	stage 9,10	492.14866	2118	0.19	-10.08
Cambrian	stage 9,10	492.02839	2122.5	0.27	-10.60
Cambrian	stage 9,10	491.90812	2127	0.19	-10.12
Cambrian	stage 9,10	491.78785	2131.5	0.28	-12.23
Cambrian	stage 9,10	491.66758	2136	-0.15	-14.13

Cambrian	stage 9,10	491.54731	2140.5	0.20	-9.79
Cambrian	stage 9,10	491.42704	2145	0.48	-9.38
Cambrian	stage 9,10	491.30677	2149.5	0.33	-9.36
Cambrian	stage 9,10	491.1865	2154	-0.01	-10.03
Cambrian	stage 9,10	491.06623	2158.5	-0.24	-10.64
Cambrian	stage 9,10	490.94596	2163	0.55	-11.14
Cambrian	stage 9,10	490.82569	2167.5	0.54	-10.37
Cambrian	stage 9,10	490.70541	2172	0.20	-10.54
Cambrian	stage 9,10	490.58514	2176.5	-0.12	-9.51
Cambrian	stage 9,10	490.46487	2181	-0.13	-9.53
Cambrian	stage 9,10	490.3446	2185.5	-0.58	-9.74
Cambrian	stage 9,10	490.22433	2190	-0.15	-11.37
Cambrian	stage 9,10	490.10406	2194.5	0.08	-12.30
Cambrian	stage 9,10	489.98379	2199	0.43	-10.43
Cambrian	stage 9,10	489.86352	2203.5	0.40	-12.06
Cambrian	stage 9,10	489.74325	2208	-0.07	-9.61
Cambrian	stage 9,10	489.62298	2212.5	0.46	-12.36
Cambrian	stage 9,10	489.50271	2217	0.64	-9.69
Cambrian	stage 9,10	489.38244	2221.5	0.55	-13.51
Cambrian	stage 9,10	489.26217	2226	0.76	-10.90
Cambrian	stage 9,10	489.1419	2230.5	0.24	-10.06
Cambrian	stage 9,10	489.02162	2235	0.17	-11.41
Cambrian	stage 9,10	488.90135	2239.5	0.03	-13.78
Cambrian	stage 9,10	488.78108	2244	0.00	-10.92
Cambrian	stage 9,10	488.66081	2248.5	0.07	-12.87
Cambrian	stage 9,10	488.54054	2253	-0.26	-10.14
Cambrian	stage 9,10	488.42027	2257.5	0.28	-13.08
Cambrian	stage 9,10	488.31	2262	0.62	-13.07
Ordovician	Tremadocian	488.3	2266.5	1.55	-10.97
Ordovician	Tremadocian	488.16735	2271	1.52	-10.81
Ordovician	Tremadocian	488.0347	2275.5	1.50	-11.77

Ordovician	Tremadocian	487.90206	2280	1.24	-16.40
Ordovician	Tremadocian	487.76941	2284.5	1.12	-12.33
Ordovician	Tremadocian	487.63676	2289	0.83	-11.86
Ordovician	Tremadocian	487.50411	2293.5	1.36	-13.91
Ordovician	Tremadocian	487.37146	2298	1.38	-13.68
Ordovician	Tremadocian	487.23882	2302.5	0.63	-11.74
Ordovician	Tremadocian	486.97352	2311.5	0.54	-9.98
Ordovician	Tremadocian	486.84087	2316	0.76	-11.65
Ordovician	Tremadocian	486.70822	2320.5	0.48	-9.79
Ordovician	Tremadocian	486.57558	2325	1.52	-9.54
Ordovician	Tremadocian	486.44293	2329.5	1.36	-12.57
Ordovician	Tremadocian	486.39871	2331.0	1.40	-11.50
Ordovician	Tremadocian	486.19206	2338.0	1.17	-9.96
Ordovician	Tremadocian	486.03932	2343.2	0.89	-11.66
Ordovician	Tremadocian	485.85963	2349.3	0.85	-9.10
Ordovician	Tremadocian	485.66197	2356.0	0.85	-9.53
Ordovician	Tremadocian	485.50923	2361.2	-1.20	-10.18
Ordovician	Tremadocian	485.32055	2367.6	-0.66	-9.59
Ordovician	Tremadocian	484.97015	2379.5	-0.68	-10.26
Ordovician	Tremadocian	484.78147	2385.9	-0.64	-8.91
Ordovician	Tremadocian	484.60177	2392.0	-0.64	-10.45
Ordovician	Tremadocian	484.42208	2398.1	-0.31	-12.60
Ordovician	Tremadocian	484.24239	2404.2	-0.73	-9.96
Ordovician	Tremadocian	484.03574	2411.2	-0.33	-9.66
Ordovician	Tremadocian	483.883	2416.3	-0.60	-10.20
Ordovician	Tremadocian	483.7033	2422.4	-0.40	-8.45
Ordovician	Tremadocian	483.52361	2428.5	-0.53	-13.26
Ordovician	Tremadocian	483.32595	2435.2	-0.91	-9.98
Ordovician	Tremadocian	483.16422	2440.7	-0.94	-9.35
Ordovician	Tremadocian	482.99351	2446.5	-0.76	-10.81
Ordovician	Tremadocian	482.79585	2453.2	0.11	-9.70

Ordovician	Tremadocian	482.62514	2459.0	0.70	-8.59
Ordovician	Tremadocian	482.49037	2463.6	0.15	-8.91
Ordovician	Tremadocian	482.31068	2469.7	-0.48	-8.98
Ordovician	Tremadocian	482.08606	2477.3	-0.99	-15.69
Ordovician	Tremadocian	481.89738	2483.7	-1.26	-10.26
Ordovician	Tremadocian	481.74464	2488.9	-1.22	-9.27
Ordovician	Tremadocian	481.56495	2495.0	-1.50	-10.75
Ordovician	Tremadocian	481.25048	2505.7	-1.22	-9.12
Ordovician	Tremadocian	480.73836	2523.0	-1.32	-9.31
Ordovician	Tremadocian	480.64851	2526.1	-1.03	-9.12
Ordovician	Tremadocian	480.26217	2539.2	-1.13	-10.87
Ordovician	Tremadocian	480.00161	2548.0	-1.25	-9.27
Ordovician	Tremadocian	479.75903	2556.2	-1.26	-9.32
Ordovician	Tremadocian	479.65121	2559.9	-0.73	-9.44
Ordovician	Tremadocian	479.21994	2574.5	-0.29	-8.67
Ordovician	Tremadocian	478.88751	2585.8	-0.94	-9.52
Ordovician	Tremadocian	478.61	2595.6	-1.51	-9.31
Ordovician	Floian	478.6	2607.1	-1.88	-8.22
Ordovician	Floian	478.50844	2611.7	-2.79	-8.35
Ordovician	Floian	478.38636	2617.8	-1.03	-8.66
Ordovician	Floian	478.22154	2626.0	-0.79	-9.33
Ordovician	Floian	478.08115	2633.1	-1.31	-8.73
Ordovician	Floian	477.95296	2639.5	-1.76	-8.90
Ordovician	Floian	477.89192	2642.5	-1.68	-8.65
Ordovician	Floian	477.76984	2648.6	-2.04	-9.48
Ordovician	Floian	477.39749	2667.2	-1.35	-8.99
Ordovician	Floian	477.25709	2674.2	-1.09	-9.20
Ordovician	Floian	476.95799	2689.1	-1.71	-8.66
Ordovician	Floian	476.80539	2696.8	-1.98	-8.87
Ordovician	Floian	476.70162	2701.9	-1.55	-8.22
Ordovician	Floian	476.48187	2712.9	-1.67	-8.61

Ordovician	Floian	476.33537	2720.2	-1.34	-8.86
Ordovician	Floian	476.15835	2729.1	-1.44	-8.75
Ordovician	Floian	476.03627	2735.2	-1.45	-9.06
Ordovician	Floian	475.9325	2740.3	-1.32	-8.94
Ordovician	Floian	475.82262	2745.8	-1.44	-8.45
Ordovician	Floian	475.67612	2753.1	-1.35	-8.48
Ordovician	Floian	475.57235	2758.3	-1.01	-8.50
Ordovician	Floian	475.38923	2767.5	-1.17	-8.73
Ordovician	Floian	475.17558	2778.1	-1.14	-8.59
Ordovician	Floian	475.07792	2783.0	-1.55	-9.42
Ordovician	Floian	474.95583	2789.1	-1.53	-8.25
Ordovician	Floian	474.95583	2789.1	-1.57	-8.31
Ordovician	Floian	474.84596	2794.6	-1.26	-8.63
Ordovician	Floian	474.72998	2800.4	-1.16	-8.40
Ordovician	Floian	474.614	2806.2	-1.38	-8.91
Ordovician	Floian	474.48582	2812.6	-0.98	-8.40
Ordovician	Floian	474.35153	2819.3	-1.33	-9.08
Ordovician	Floian	474.23555	2825.1	-1.07	-8.54
Ordovician	Floian	474.11957	2830.9	-0.98	-8.72
Ordovician	Floian	473.99138	2837.3	-0.90	-8.65
Ordovician	Floian	473.8754	2843.1	-1.06	-8.53
Ordovician	Floian	473.75332	2849.2	-1.00	-8.35
Ordovician	Floian	473.62513	2855.6	-0.94	-8.43
Ordovician	Floian	473.50916	2861.4	-1.23	-8.59
Ordovician	Floian	473.38707	2867.4	-1.04	-8.27
Ordovician	Floian	473.14291	2879.6	-0.94	-8.98
Ordovician	Floian	473.02083	2885.7	-0.95	-8.34
Ordovician	Floian	472.89874	2891.8	-0.88	-7.98
Ordovician	Floian	472.77666	2897.9	-1.05	-7.96
Ordovician	Floian	472.6912	2902.2	-0.79	-8.35
Ordovician	Floian	472.55691	2908.9	-1.04	-8.06

Ordovician	Floian	472.45925	2913.8	-0.91	-8.82
Ordovician	Floian	472.28833	2922.3	-1.50	-8.87
Ordovician	Floian	472.18456	2927.5	-1.70	-8.48
Ordovician	Floian	472.04417	2934.5	-1.76	-11.24
Ordovician	Floian	471.92208	2940.6	-1.05	-8.10
Ordovician	Floian	471.81	2946.7	-0.43	-8.44
Ordovician	Dapingian	471.8	2993.3	-1.06	-8.48
Ordovician	Dapingian	471.69327	3001.0	-0.81	-7.78
Ordovician	Dapingian	471.59935	3007.7	-0.73	-8.24
Ordovician	Dapingian	471.52251	3013.1	-1.36	-8.57
Ordovician	Dapingian	471.42859	3019.8	-0.85	-8.40
Ordovician	Dapingian	471.35175	3025.3	-0.53	-7.59
Ordovician	Dapingian	471.26637	3031.4	-0.55	-7.88
Ordovician	Dapingian	471.18952	3036.9	-0.54	-7.54
Ordovician	Dapingian	471.11695	3042.1	-0.16	-8.12
Ordovician	Dapingian	471.00168	3050.3	-0.27	-8.15
Ordovician	Dapingian	470.9163	3056.4	-0.57	-7.64
Ordovician	Dapingian	470.81384	3063.7	-1.04	-8.01
Ordovician	Dapingian	470.74554	3068.6	-0.64	-7.72
Ordovician	Dapingian	470.66016	3074.7	-0.64	-7.97
Ordovician	Dapingian	470.57478	3080.8	-0.23	-8.12
Ordovician	Dapingian	470.48939	3086.9	-0.55	-8.03
Ordovician	Dapingian	470.40401	3093.0	-0.46	-7.86
Ordovician	Dapingian	470.31863	3099.1	-0.65	-7.92
Ordovician	Dapingian	470.30597	3100	-0.32	-16.07
Ordovician	Dapingian	470.24294	3104.5	-0.98	-11.23
Ordovician	Dapingian	470.17991	3109	-0.99	-14.41
Ordovician	Dapingian	470.11689	3113.5	-1.11	-15.53
Ordovician	Dapingian	469.9278	3127	-1.94	-10.76
Ordovician	Dapingian	469.86478	3131.5	-0.77	-17.92
Ordovician	Dapingian	469.73872	3140.5	-0.59	-13.51

Ordovician	Dapingian	469.67569	3145	-1.13	-15.48
Ordovician	Dapingian	469.54964	3154	-0.67	-11.47
Ordovician	Dapingian	469.48661	3158.5	-1.05	-13.80
Ordovician	Dapingian	469.42358	3163	-0.97	-12.43
Ordovician	Dapingian	469.36055	3167.5	-0.92	-10.98
Ordovician	Dapingian	469.29753	3172	-0.68	-11.73
Ordovician	Dapingian	469.17147	3181	-0.37	-11.54
Ordovician	Dapingian	469.10844	3185.5	-0.81	-10.68
Ordovician	Dapingian	469.04542	3190	-0.39	-14.89
Ordovician	Dapingian	468.98239	3194.5	0.82	-15.69
Ordovician	Dapingian	468.91936	3199	-1.05	-8.62
Ordovician	Dapingian	468.85633	3203.5	-0.58	-10.21
Ordovician	Dapingian	468.7933	3208	-0.05	-14.29
Ordovician	Dapingian	468.73028	3212.5	0.80	-16.90
Ordovician	Dapingian	468.66725	3217	-0.82	-10.48
Ordovician	Dapingian	468.60422	3221.5	-2.19	-11.05
Ordovician	Dapingian	468.47817	3230.5	-0.92	-8.08
Ordovician	Dapingian	468.35211	3239.5	-0.67	-8.34
Ordovician	Dapingian	468.28908	3244	0.33	-12.34
Ordovician	Dapingian	468.22606	3248.5	-0.77	-8.05
Ordovician	Dapingian	468.16303	3253	-0.35	-8.07
Ordovician	Dapingian	468.11	3257.5	-0.63	-7.31
Ordovician	Darriwilian	468.1	3262	-0.71	-10.45
Ordovician	Darriwilian	467.85361	3266.5	-1.23	-6.56
Ordovician	Darriwilian	467.30608	3276.5	-0.79	-6.01
Ordovician	Darriwilian	467.0597	3281	-0.48	-9.60
Ordovician	Darriwilian	466.81331	3285.5	0.12	-11.91
Ordovician	Darriwilian	466.56692	3290	-0.59	-9.08
Ordovician	Darriwilian	466.32053	3294.5	0.16	-11.16
Ordovician	Darriwilian	466.07414	3299	0.08	-12.10
Ordovician	Darriwilian	465.82776	3303.5	-0.32	-7.84

Ordovician	Darriwilian	465.58137	3308	-0.45	-9.37
Ordovician	Darriwilian	464.84221	3321.5	-0.53	-8.67
Ordovician	Darriwilian	464.34943	3330.5	-0.51	-10.22
Ordovician	Darriwilian	464.10304	3335	-0.33	-11.79
Ordovician	Darriwilian	463.85665	3339.5	-0.62	-8.97
Ordovician	Darriwilian	463.61027	3344	-1.34	-7.73
Ordovician	Darriwilian	463.36388	3348.5	-1.34	-14.85
Ordovician	Darriwilian	463.11749	3353	-0.77	-7.68
Ordovician	Darriwilian	462.8711	3357.5	-0.26	-12.21
Ordovician	Darriwilian	462.62471	3362	-0.69	-11.56
Ordovician	Darriwilian	462.37833	3366.5	-0.52	-11.13
Ordovician	Darriwilian	462.13194	3371	-0.45	-10.75
Ordovician	Darriwilian	461.88555	3375.5	-1.20	-12.24
Ordovician	Darriwilian	461.63916	3380	-1.83	-14.80
Ordovician	Darriwilian	461.39278	3384.5	-0.55	-10.01
Ordovician	Darriwilian	461.14639	3389	-1.06	-9.81
Ordovician	Darriwilian	460.91	3393.5	-1.28	-8.82
Ordovician	sandbian	460.9	3399.5	-2.50	-10.78
Ordovician	sandbian	460.71417	3404	-2.01	-13.52
Ordovician	sandbian	460.52834	3408.5	-0.81	-14.01
Ordovician	sandbian	460.34251	3413	-0.83	-11.70
Ordovician	sandbian	460.15668	3417.5	-0.95	-12.14
Ordovician	sandbian	459.97085	3422	-0.39	-12.50
Ordovician	sandbian	459.76437	3427	-1.35	-5.36
Ordovician	sandbian	459.57854	3431.5	-1.20	-6.04
Ordovician	sandbian	458.95911	3446.5	-1.78	-5.56
Ordovician	sandbian	458.83522	3449.5	-2.03	-5.48
Ordovician	sandbian	458.77328	3451	-1.13	-7.06
Ordovician	sandbian	458.46356	3458.5	-1.75	-6.31
Ordovician	sandbian	458.40162	3460	-1.81	-8.03
Ordovician	sandbian	458.27773	3463	-1.79	-8.37

Ordovician	sandbian	458.21579	3464.5	-1.47	-5.70
Ordovician	sandbian	458.02996	3469	-1.44	-5.95
Ordovician	sandbian	457.96802	3470.5	-1.32	-5.08
Ordovician	sandbian	457.90607	3472	-1.61	-5.10
Ordovician	sandbian	457.84413	3473.5	-1.23	-5.19
Ordovician	sandbian	457.78219	3475	-1.91	-5.73
Ordovician	sandbian	457.72024	3476.5	-1.19	-5.32
Ordovician	sandbian	457.6583	3478	-1.44	-6.09
Ordovician	sandbian	457.53441	3481	-0.99	-4.91
Ordovician	sandbian	457.41053	3484	-2.37	-4.23
Ordovician	sandbian	457.28664	3487	-0.44	-5.18
Ordovician	sandbian	457.16275	3490	0.09	-5.49
Ordovician	sandbian	457.03887	3493	0.48	-5.03
Ordovician	sandbian	456.91498	3496	1.14	-4.63
Ordovician	sandbian	456.72915	3500.5	0.09	-4.94
Ordovician	sandbian	456.60526	3503.5	0.86	-4.65
Ordovician	sandbian	456.50202	3506	0.74	-5.59
Ordovician	sandbian	456.41943	3508	0.85	-4.59
Ordovician	sandbian	456.2749	3511.5	-0.48	-5.52
Ordovician	sandbian	456.15101	3514.5	-1.14	-4.92
Ordovician	sandbian	456.04777	3517	-0.42	-4.62
Ordovician	sandbian	455.94453	3519.5	0.14	-4.73
Ordovician	sandbian	455.92389	3520	1.74	-4.54
Ordovician	sandbian	455.90324	3520.5	2.00	-4.80
Ordovician	sandbian	455.8413	3522	1.16	-5.27
Ordovician	sandbian	455.81	3523	0.97	-6.19
Ordovician	katian	455.8	3524	1.25	-5.06
Ordovician	katian	455.73064	3525.5	1.14	-5.36
Ordovician	katian	455.66129	3527	1.48	-4.89
Ordovician	katian	455.52257	3530	2.00	-4.50
Ordovician	katian	455.38386	3533	3.69	-5.12

Ordovician	katian	455.24515	3536	3.55	-4.88	
Ordovician	katian	453.2107	3580	-2.00	-13.41	
Ordovician	katian	452.65585	3592	-1.35	-6.66	
Ordovician	katian	451.96228	3607	-0.58	-5.47	
Ordovician	katian	451.75422	3611.5	-0.13	-9.51	
Ordovician	katian	450.9913	3628	0.43	-8.28	
Ordovician	katian	450.78323	3632.5	-0.20	-6.61	
Ordovician	katian	450.57516	3637	0.13	-7.78	
Ordovician	katian	450.36709	3641.5	2.43	-8.84	
Ordovician	katian	450.15902	3646	0.68	-7.00	
Ordovician	katian	449.95095	3650.5	-0.02	-8.32	
Ordovician	katian	449.74288	3655	0.91	-5.85	
Ordovician	katian	449.53481	3659.5	0.66	-6.39	
Ordovician	katian	449.32675	3664	0.89	-6.29	
Ordovician	katian	449.11868	3668.5	0.87	-6.47	
Ordovician	katian	448.91061	3673	0.69	-6.62	
Ordovician	katian	448.70254	3677.5	0.82	-5.43	
Ordovician	katian	448.49447	3682	0.93	-5.63	
Ordovician	katian	448.2864	3686.5	0.49	-5.80	
Ordovician	katian	447.87026	3695.5	0.35	-4.23	
Ordovician	katian	447.45413	3704.5	0.89	-6.15	
Ordovician	katian	447.24606	3709	1.86	-4.57	
Ordovician	katian	447.10734	3712	1.89		kump et al 1999
Ordovician	katian	446.91777	3716.1	0.88		kump et al 1999
Ordovician	katian	446.86228	3717.3	1.73		kump et al 1999
Ordovician	katian	446.68196	3721.2	1.43		kump et al 1999
Ordovician	katian	446.54787	3724.1	2.12		kump et al 1999
Ordovician	katian	446.42765	3726.7	2.47		kump et al 1999
Ordovician	katian	446.35367	3728.3	2.93		kump et al 1999
Ordovician	katian	446.2427	3730.7	1.67		kump et al 1999
Ordovician	katian	446.17797	3732.1	1.65		kump et al 1999

Ordovician	katian	446.05313	3734.8	2.08	kump et al 1999
Ordovician	katian	445.95603	3736.9	1.68	kump et al 1999
Ordovician	katian	445.86355	3738.9	1.19	kump et al 1999
Ordovician	katian	445.72947	3741.8	0.96	kump et al 1999
Ordovician	katian	445.61	3744.6	1.25	kump et al 1999
Ordovician	hirnantian	445.6	3746.7	3.32	kump et al 1999
Ordovician	hirnantian	445.56029	3748	4.41	kump et al 1999
Ordovician	hirnantian	445.4992	3750	4.07	kump et al 1999
Ordovician	hirnantian	445.45643	3751.4	5.45	kump et al 1999
Ordovician	hirnantian	445.36479	3754.4	6.37	kump et al 1999
Ordovician	hirnantian	445.30981	3756.2	6.41	kump et al 1999
Ordovician	hirnantian	445.22428	3759	7.02	kump et al 1999
Ordovician	hirnantian	445.16624	3760.9	6.14	kump et al 1999
Ordovician	hirnantian	445.1418	3761.7	6.39	kump et al 1999
Ordovician	hirnantian	445.08071	3763.7	6.68	kump et al 1999
Ordovician	hirnantian	445.03183	3765.3	6.49	kump et al 1999
Ordovician	hirnantian	445.00129	3766.3	6.81	kump et al 1999
Ordovician	hirnantian	444.96463	3767.5	7.1	kump et al 1999
Ordovician	hirnantian	444.85466	3771.1	6.49	kump et al 1999
Ordovician	hirnantian	444.77524	3773.7	6.74	kump et al 1999
Ordovician	hirnantian	444.72331	3775.4	6.87	kump et al 1999
Ordovician	hirnantian	444.62556	3778.6	6.53	kump et al 1999
Ordovician	hirnantian	444.56752	3780.5	6.29	kump et al 1999
Ordovician	hirnantian	444.50338	3782.6	5.71	kump et al 1999
Ordovician	hirnantian	444.47894	3783.4	5.39	kump et al 1999
Ordovician	hirnantian	444.44534	3784.5	5.24	kump et al 1999
Ordovician	hirnantian	444.37814	3786.7	4.98	kump et al 1999
Ordovician	hirnantian	444.31093	3788.9	4.72	kump et al 1999
Ordovician	hirnantian	444.27428	3790.1	3.73	kump et al 1999
Ordovician	hirnantian	444.17347	3793.4	3.45	kump et al 1999
Ordovician	hirnantian	444.04823	3797.5	1.05	kump et al 1999

Ordovician	hirnantian	443.92299	3801.6	0.65		kump et al 1999
Ordovician	hirnantian	443.84968	3804	0.21		kump et al 1999
Ordovician	hirnantian	443.7	3808.9	0.49		kump et al 1999
Silurian	telychian	430	3812.8	0.08		kump et al 1999
Silurian	telychian	429.74911	3819.2	-0.77		kump et al 1999
Silurian	telychian	429.56486	3823.9	-0.13		kump et al 1999
Silurian	telychian	429.36885	3828.9	-1.16		kump et al 1999
Silurian	telychian	428.73769	3845.0	0.64	-4.26	
Silurian	telychian	428.63016	3847.7	0.23	-12.81	
Silurian	telychian	428.52262	3850.5	0.88	-6.74	
Silurian	telychian	428.41508	3853.2	2.76	-9.89	
Silurian	telychian	428.30754	3856.0	2.91	-9.21	
Silurian	telychian	428.21	3858.7	3.17	-9.69	
Silurian	sheinwood	428.2	3861.5	2.30	-8.76	
Silurian	sheinwood	428.075	3864.2	2.75	-7.75	
Silurian	sheinwood	427.95	3866.9	3.31	-7.58	
Silurian	sheinwood	427.825	3869.7	2.15	-8.16	
Silurian	sheinwood	427.7	3872.4	-0.32	-8.57	
Silurian	sheinwood	427.575	3875.2	-0.67	-8.44	
Silurian	sheinwood	427.45	3877.9	-0.42	-8.81	
Silurian	sheinwood	427.325	3880.7	-0.63	-18.59	
Silurian	sheinwood	427.2	3883.4	-0.52	-7.75	
Silurian	sheinwood	427.075	3886.1	-0.29	-8.39	
Silurian	sheinwood	426.95	3888.9	-0.50	-9.52	
Silurian	sheinwood	426.825	3891.6	-0.55	-10.30	
Silurian	sheinwood	426.7	3894.4	-1.12	-15.07	
Silurian	sheinwood	426.45	3899.9	-0.26	-9.46	
Silurian	sheinwood	426.325	3902.6	-0.08	-12.02	
Silurian	sheinwood	426.201	3905.4	-0.27	-8.83	
Silurian	homerian	426.2	3908.1	-0.38	-9.61	
Silurian	homerian	426.12326	3910.8	-0.33	-7.96	

Silurian	homerian	426.04651	3913.6	0.15	-8.25
Silurian	homerian	425.96977	3916.3	-0.09	-8.38
Silurian	homerian	425.89302	3919.1	-0.14	-8.49
Silurian	homerian	425.81628	3921.8	-0.10	-8.25
Silurian	homerian	425.73953	3924.6	-0.10	-10.12
Silurian	homerian	425.66279	3927.3	0.50	-10.39
Silurian	homerian	425.58605	3930.0	-0.28	-9.88
Silurian	homerian	425.5093	3932.8	0.13	-9.34
Silurian	homerian	425.43256	3935.5	0.25	-13.67
Silurian	homerian	425.35581	3938.3	0.06	-10.82
Silurian	homerian	425.27907	3941.0	0.23	-11.44
Silurian	homerian	425.20233	3943.8	0.37	-12.72
Silurian	homerian	425.12558	3946.5	0.19	-13.70
Silurian	homerian	425.04884	3949.2	0.73	-12.92
Silurian	homerian	424.97209	3952.0	0.34	-12.33
Silurian	homerian	424.89535	3954.7	2.37	-14.99
Silurian	homerian	424.8186	3957.5	0.48	-12.03
Silurian	homerian	424.74186	3960.2	1.14	-10.21
Silurian	homerian	424.66512	3963.0	2.80	-11.13
Silurian	homerian	424.58837	3965.7	2.47	-10.21
Silurian	homerian	424.51163	3968.4	2.65	-10.43
Silurian	homerian	424.43488	3971.2	2.05	-9.79
Silurian	homerian	424.35814	3973.9	1.45	-12.66
Silurian	homerian	424.2814	3976.7	2.18	-12.55
Silurian	homerian	424.20465	3979.4	1.80	-8.30
Silurian	homerian	424.12791	3982.2	2.24	-9.91
Silurian	homerian	424.05116	3984.9	1.60	-8.58
Silurian	homerian	423.97442	3987.6	1.56	-10.14
Silurian	homerian	423.89767	3990.4	0.85	-9.50
Silurian	homerian	423.82093	3993.1	0.81	-10.05
Silurian	homerian	423.74419	3995.9	0.84	-11.71

Silurian	homerian	423.5907	4001.4	0.87	-10.45
Silurian	homerian	423.51395	4004.1	1.00	-10.56
Silurian	homerian	423.43721	4006.8	1.13	-9.51
Silurian	homerian	423.36047	4009.6	0.97	-7.02
Silurian	homerian	423.28372	4012.3	1.21	-10.43
Silurian	homerian	423.14729	4017.2	1.26	-13.58
Silurian	homerian	423.13023	4017.8	0.93	-12.52
Silurian	homerian	423.07054	4020.0	1.15	-13.03
Silurian	homerian	423.05349	4020.6	1.35	-12.88
Silurian	homerian	422.9938	4022.7	1.17	-12.56
Silurian	homerian	422.97674	4023.3	0.81	-13.87
Silurian	homerian	422.91705	4025.4	1.54	-16.06
Silurian	homerian	422.91	4026.1	0.95	-12.37
Silurian	gorstian	422.9	4028.2	0.99	-12.43
Silurian	gorstian	422.60909	4028.8	1.49	-10.58
Silurian	gorstian	421.31	4031.5	1.32	-11.30
Silurian	ludfordian	421.3	4034.3	3.70	-8.59
Silurian	ludfordian	421.23572	4037.0	3.32	-11.18
Silurian	ludfordian	421.25433	4040.0	4.43	-10.20
Silurian	ludfordian	421.14888	4044.5	5.38	-12.48
Silurian	ludfordian	421.04342	4049.0	4.74	-8.87
Silurian	ludfordian	420.93797	4053.5	2.93	-11.44
Silurian	ludfordian	420.83252	4058.0	2.92	-9.48
Silurian	ludfordian	420.72706	4062.5	3.25	-10.40
Silurian	ludfordian	420.51615	4071.5	1.90	-8.07
Silurian	ludfordian	420.4107	4076.0	1.69	-5.83
Silurian	ludfordian	420.30524	4080.5	2.89	-9.48
Silurian	ludfordian	420.19979	4085.0	2.37	-10.88
Silurian	ludfordian	420.09434	4089.5	2.25	-13.01
Silurian	ludfordian	420.0709	4090.5	1.73	-8.46
Silurian	ludfordian	419.85999	4099.5	0.77	-7.92

Silurian	ludfordian	419.75454	4104.0	0.46	-12.62
Silurian	ludfordian	419.64909	4108.5	0.44	-8.73
Silurian	ludfordian	419.54363	4113.0	0.22	-11.16
Silurian	ludfordian	419.33272	4122.0	0.44	-6.78
Silurian	ludfordian	419.01636	4135.5	0.00	-5.87
Silurian	ludfordian	418.91091	4140.0	0.72	-8.71
Silurian	ludfordian	418.71	4149.0	0.55	-7.90
Silurian	Pridolian	418.7	4155.0	1.223	-13.003
Silurian	Pridolian	418.64934	4158.0	1.107	-9.4722
Silurian	Pridolian	418.60882	4160.5	1.34	-13.1
Silurian	Pridolian	418.60375	4160.8	1.521	-11.078
Silurian	Pridolian	418.59869	4161.1	1.474	-8.8488
Silurian	Pridolian	418.56323	4163.2	1.175	-13.395
Silurian	Pridolian	418.42139	4171.8	1.259	-11.415
Silurian	Pridolian	418.34034	4176.6	0.617	-10.108
Silurian	Pridolian	418.32008	4177.9	0.785	-11.476
Silurian	Pridolian	418.30994	4178.5	0.669	-11.832
Silurian	Pridolian	418.28462	4180.0	0.931	-11.052
Silurian	Pridolian	418.26435	4181.2	0.638	-11.15
Silurian	Pridolian	418.23902	4182.7	1.267	-16.367
Silurian	Pridolian	418.2137	4184.3	0.554	-12.441
Silurian	Pridolian	418.18837	4185.8	0.571	-10.632
Silurian	Pridolian	418.1833	4186.1	0.61	-10.525
Silurian	Pridolian	418.16304	4187.3	0.661	-12.294
Silurian	Pridolian	418.15797	4187.6	0.518	-12.107
Silurian	Pridolian	418.11745	4190.1	0.179	-9.9412
Silurian	Pridolian	418.09212	4191.6	0.157	-8.9187
Silurian	Pridolian	418.06679	4193.1	-0.269	-10.055
Silurian	Pridolian	418.04146	4194.6	0.516	-13.277
Silurian	Pridolian	418.006	4196.8	1.053	-9.4429
Silurian	Pridolian	417.88949	4203.8	0.157	-7.4867

Silurian	Pridolian	417.86417	4205.3	1.047	1.106
Silurian	Pridolian	417.74765	4212.3	0.864	-12.896
Silurian	Pridolian	417.697	4215.4	0.734	-12.642
Silurian	Pridolian	417.61088	4220.5	1.305	-13.626
Silurian	Pridolian	417.56023	4223.6	1.582	-11.751
Silurian	Pridolian	417.47917	4228.5	1.326	-12.831
Silurian	Pridolian	417.41332	4232.4	0.738	-15.123
Silurian	Pridolian	417.38799	4233.9	1.006	-9.879
Silurian	Pridolian	417.29174	4239.7	-0.446	-10.916
Silurian	Pridolian	417.01313	4256.5	2.337	-6.6723
Silurian	Pridolian	416.91182	4262.6	1.182	-7.3641
Silurian	Pridolian	416.85103	4266.3	0.955	-14.074
Silurian	Pridolian	416.65854	4277.8	0.316	-6.9678
Silurian	Pridolian	416.5015	4287.3	2.433	-7.7441
Silurian	Pridolian	416.45591	4290.0	1.532	-6.8091
Silurian	Pridolian	416.32927	4297.6	0.205	-7.7507
Silurian	Pridolian	416.21782	4304.4	2.726	-5.2215
Silurian	Pridolian	416.17223	4307.1	3.308	-10.025
Silurian	Pridolian	416.1469	4308.6	3.19	-10.244
Silurian	Pridolian	416.10131	4311.4	2.165	-12.758
Silurian	Pridolian	416.06079	4313.8	3.269	-8.6446
Silurian	Pridolian	416.01	4317.5	2.609	-14.088
Devonian	Lochkovian	416	4324.5	5.075	-6.4552
Devonian	Lochkovian	415.8495	4334.8	5.525	-5.8781
Devonian	Lochkovian	415.81409	4337.3	5.718	-5.0369
Devonian	Lochkovian	415.70184	4345	3.98	-14.85
Devonian	Lochkovian	415.63649	4349.5	2.80	-13.75
Devonian	Lochkovian	415.54936	4355.5	1.64	-11.52
Devonian	Lochkovian	415.41866	4364.5	2.73	-13.36
Devonian	Lochkovian	415.3751	4367.5	1.71	-11.37
Devonian	Lochkovian	415.30975	4372	3.00	-14.72

Devonian	Lochkovian	415.2444	4376.5	1.24	-8.61
Devonian	Lochkovian	415.17905	4381	1.24	-9.59
Devonian	Lochkovian	415.1137	4385.5	2.50	-14.25
Devonian	Lochkovian	415.04835	4390	2.09	-13.61
Devonian	Lochkovian	414.983	4394.5	1.19	-15.30
Devonian	Lochkovian	414.93217	4398	2.05	-15.85
Devonian	Lochkovian	414.88861	4401	1.99	-16.16
Devonian	Lochkovian	414.82326	4405.5	0.54	-14.50
Devonian	Lochkovian	414.74339	4411	0.36	-12.54
Devonian	Lochkovian	414.67804	4415.5	-0.61	-6.97
Devonian	Lochkovian	414.61269	4420	0.26	-13.86
Devonian	Lochkovian	414.54734	4424.5	-1.48	-8.89
Devonian	Lochkovian	414.48199	4429	-0.83	-8.57
Devonian	Lochkovian	414.41664	4433.5	-0.93	-7.62
Devonian	Lochkovian	414.35129	4438	-0.57	-7.98
Devonian	Lochkovian	414.27868	4443	0.23	-10.11
Devonian	Lochkovian	414.22785	4446.5	-0.02	-15.74
Devonian	Lochkovian	414.1625	4451	-0.08	-7.33
Devonian	Lochkovian	414.10442	4455	-0.27	-13.18
Devonian	Lochkovian	414.03907	4459.5	1.40	-19.33
Devonian	Lochkovian	413.97372	4464	2.02	-5.32
Devonian	Lochkovian	413.90837	4468.5	1.46	-7.91
Devonian	Lochkovian	413.84302	4473	-0.23	-4.06
Devonian	Lochkovian	413.77767	4477.5	2.11	-10.79
Devonian	Lochkovian	413.71232	4482	2.03	-6.70
Devonian	Lochkovian	413.58162	4491	2.14	-8.64
Devonian	Lochkovian	413.45092	4500	2.37	-9.13
Devonian	Lochkovian	413.38557	4504.5	2.26	-11.44
Devonian	Lochkovian	413.32022	4509	2.47	-7.96
Devonian	Lochkovian	413.25487	4513.5	3.33	-9.76
Devonian	Lochkovian	413.16774	4519.5	3.24	-7.08

Devonian	Lochkovian	413.10239	4524	2.45	-5.84
Devonian	Lochkovian	413.00074	4531	2.78	-7.42
Devonian	Lochkovian	412.94991	4534.5	2.87	-6.35
Devonian	Lochkovian	412.88456	4539	2.88	-8.96
Devonian	Lochkovian	412.81921	4543.5	3.05	-11.72
Devonian	Lochkovian	412.75386	4548	1.94	-6.72
Devonian	Lochkovian	412.68851	4552.5	2.40	-16.02
Devonian	Lochkovian	412.55781	4561.5	2.22	-12.89
Devonian	Lochkovian	412.49246	4566	2.50	-13.81
Devonian	Lochkovian	412.42712	4570.5	2.07	-14.30
Devonian	Lochkovian	412.36177	4575	2.00	-16.67
Devonian	Lochkovian	412.29642	4579.5	2.41	-9.38
Devonian	Lochkovian	412.23107	4584	1.92	-10.82
Devonian	Lochkovian	412.16572	4588.5	2.25	-10.89
Devonian	Lochkovian	412.10037	4593	2.49	-7.83
Devonian	Lochkovian	412.03502	4597.5	1.92	-16.26
Devonian	Lochkovian	411.96967	4602	2.36	-10.94
Devonian	Lochkovian	411.90432	4606.5	2.49	-14.66
Devonian	Lochkovian	411.84478	4610.6	2.30	-7.34
Devonian	Lochkovian	411.77362	4615.5	2.64	-7.53
Devonian	Lochkovian	411.68649	4621.5	2.21	-7.13
Devonian	Lochkovian	411.62114	4626	2.15	-9.44
Devonian	Lochkovian	411.55579	4630.5	1.95	-15.60
Devonian	Lochkovian	411.49044	4635	2.06	-11.52
Devonian	Lochkovian	411.42509	4639.5	1.74	-13.28
Devonian	Lochkovian	411.35974	4644	1.77	-13.48
Devonian	Lochkovian	411.29439	4648.5	1.21	-11.08
Devonian	Lochkovian	411.22904	4653	1.83	-11.88
Devonian	Lochkovian	411.21452	4654	2.47	-6.82
Devonian	Lochkovian	411.21	4655	2.27	-9.00
Devonian	pragian	411.2	4656	2.25	-12.37

Devonian	pragian	411.03727	4666.5	2.10	-10.35
Devonian	pragian	410.87454	4677	2.42	-8.06
Devonian	pragian	410.71181	4687.5	2.22	-12.01
Devonian	pragian	410.54908	4698	2.10	-11.66
Devonian	pragian	410.38635	4708.5	1.59	-18.89
Devonian	pragian	410.22362	4719	1.87	-13.77
Devonian	pragian	410.06089	4729.5	2.54	-4.65
Devonian	pragian	409.89815	4740	2.61	-6.50
Devonian	pragian	409.73542	4750.5	2.55	-5.89
Devonian	pragian	409.20849	4784.5	2.56	-5.98
Devonian	pragian	408.2786	4844.5	2.25	-10.52
Devonian	pragian	408.11587	4855	2.55	-7.00
Devonian	pragian	407.95314	4865.5	2.53	-11.63
Devonian	pragian	407.88339	4870	2.10	-4.72
Devonian	pragian	407.81365	4874.5	1.66	-4.48
Devonian	pragian	407.74391	4879	2.46	-2.60
Devonian	pragian	407.67417	4883.5	2.92	-11.96
Devonian	pragian	407.60443	4888	1.40	-2.96
Devonian	pragian	407.53469	4892.5	1.32	-3.48
Devonian	pragian	407.48819	4895.5	1.33	-3.82
Devonian	pragian	407.4107	4900.5	1.23	-9.73
Devonian	pragian	407.34871	4904.5	1.12	-3.32
Devonian	pragian	407.27897	4909	0.66	-3.48
Devonian	pragian	407.16273	4916.5	0.67	-3.64
Devonian	pragian	407.06199	4923	1.09	-3.42
Devonian	pragian	407.01	4927	1.77	-3.39
Devonian	Emsian	407	4931	1.28	-4.28
Devonian	Emsian	406.76639	4934	1.42	-8.54
Devonian	Emsian	406.41598	4938.5	1.25	-3.69
Devonian	Emsian	406.06557	4943	1.08	-4.46
Devonian	Emsian	405.71516	4947.5	1.23	-5.79

Devonian	Emsian	405.36475	4952	1.32	-3.63
Devonian	Emsian	405.01434	4956.5	1.24	-3.32
Devonian	Emsian	404.66393	4961	0.33	-5.50
Devonian	Emsian	404.31352	4965.5	0.77	-4.01
Devonian	Emsian	403.96311	4970	0.52	-3.66
Devonian	Emsian	403.6127	4974.5	0.41	-3.66
Devonian	Emsian	403.2623	4979	0.58	-3.61
Devonian	Emsian	402.87295	4984	0.48	-4.83
Devonian	Emsian	402.52254	4988.5	0.60	-3.80
Devonian	Emsian	402.17213	4993	-0.06	-3.94
Devonian	Emsian	401.1209	5006.5	0.10	-3.42
Devonian	Emsian	400.77049	5011	0.67	-5.39
Devonian	Emsian	400.42008	5015.5	0.35	-4.50
Devonian	Emsian	400.06967	5020	0.37	-3.85
Devonian	Emsian	399.71926	5024.5	0.24	-4.91
Devonian	Emsian	399.36885	5029	0.22	-3.94
Devonian	Emsian	399.01844	5033.5	0.52	-10.94
Devonian	Emsian	398.66803	5038	0.67	-10.77
Devonian	Emsian	398.31762	5042.5	-0.06	-9.35
Devonian	Emsian	397.96721	5047	0.60	-7.48
Devonian	Emsian	397.51	5053	0.74	-10.88
Devonian	Eifelian	397.5	5057.5	-0.35	-11.21
Devonian	Eifelian	397.39396	5062	0.40	-10.91
Devonian	Eifelian	397.28792	5066.5	0.32	-10.95
Devonian	Eifelian	397.18188	5071	0.02	-8.62
Devonian	Eifelian	397.07584	5075.5	0.63	-9.14
Devonian	Eifelian	396.9698	5080	0.29	-9.26
Devonian	Eifelian	396.78128	5088	-0.103	-3.1192
Devonian	Eifelian	396.68702	5092	-0.052	-5.756
Devonian	Eifelian	396.61868	5094.9	-0.098	-5.4235
Devonian	Eifelian	396.51971	5099.1	-0.099	-6.2203

Devonian	Eifelian	396.36183	5105.8	0.121	-4.5745
Devonian	Eifelian	396.30527	5108.2	0.702	-4.1966
Devonian	Eifelian	396.28171	5109.2	0.54	-5.1619
Devonian	Eifelian	396.25814	5110.2	2.294	-9.7886
Devonian	Eifelian	396.02957	5119.9	0.743	-9.6954
Devonian	Eifelian	395.54885	5140.3	1.94	-11.9
Devonian	Eifelian	395.49701	5142.5	1.37	-6.63
Devonian	Eifelian	395.45459	5144.3	0.77	-6.26
Devonian	Eifelian	395.41924	5145.8	0.7	-5.44
Devonian	Eifelian	395.35562	5148.5	0.741	-5.7242
Devonian	Eifelian	395.25429	5152.8	0.61	-5.3
Devonian	Eifelian	394.72409	5175.3	0.69	-6.51
Devonian	Eifelian	394.68874	5176.8	0.08	-5.6
Devonian	Eifelian	394.6369	5179	0.87	-5.31
Devonian	Eifelian	394.58034	5181.4	0.8	-6.76
Devonian	Eifelian	394.52143	5183.9	-0.06	-7.23
Devonian	Eifelian	394.4743	5185.9	0.71	-12
Devonian	Eifelian	394.42717	5187.9	0.39	-5.82
Devonian	Eifelian	394.0195	5205.2	0.57	-6.51
Devonian	Eifelian	393.97238	5207.2	0.78	-5.54
Devonian	Eifelian	393.92525	5209.2	0.91	-5.42
Devonian	Eifelian	393.87812	5211.2	-0.76	-5.96
Devonian	Eifelian	393.80742	5214.2	-1.26	-6.8
Devonian	Eifelian	393.76029	5216.2	-0.69	-5.72
Devonian	Eifelian	393.66604	5220.2	0	-10.6
Devonian	Eifelian	393.03215	5247.1	-0.12	-5.8
Devonian	Eifelian	393.00858	5248.1	0.37	-5.99
Devonian	Eifelian	392.98502	5249.1	1	-5.24
Devonian	Eifelian	392.93789	5251.1	0.55	-5.21
Devonian	Eifelian	392.89076	5253.1	-0.1	-5.02
Devonian	Eifelian	392.73288	5259.8	0.24	-4.88

Devonian	Eifelian	392.69753	5261.3	0.23	-4.99
Devonian	Eifelian	392.6504	5263.3	0.47	-5.14
Devonian	Eifelian	392.62684	5264.3	0.03	-4.85
Devonian	Eifelian	392.60327	5265.3	-0.54	-3.25
Devonian	Eifelian	392.42418	5272.9	0.51	-5.57
Devonian	Eifelian	391.81	5299.388	0.65	-5.08
Devonian	Givetian	391.8	5301.888	1.02	-8.76
Devonian	Givetian	391.71424	5304.388	0.29	-6.87
Devonian	Givetian	391.64563	5306.388	0.81	-4.95
Devonian	Givetian	391.43595	5312.5	0.83	-4.96
Devonian	Givetian	391.35362	5314.9	0.73	-4.96
Devonian	Givetian	391.28501	5316.9	0.82	-4.84
Devonian	Givetian	391.14667	5320.933	0.49	-5.35
Devonian	Givetian	391.07806	5322.933	-0.36	-5.9
Devonian	Givetian	391.00944	5324.933	0.45	-5.45
Devonian	Givetian	390.94083	5326.933	-0.32	-5.64
Devonian	Givetian	390.87222	5328.933	-0.07	-5.36
Devonian	Givetian	390.80361	5330.933	0.16	-7.39
Devonian	Givetian	390.63102	5335.964	0.5	-4.78
Devonian	Givetian	390.49509	5339.926	0.23	-7.99
Devonian	Givetian	390.31733	5345.108	0.93	-6.08
Devonian	Givetian	390.30018	5345.608	0.84	-5.87
Devonian	Givetian	390.16296	5349.608	0.69	-6.23
Devonian	Givetian	390.0772	5352.108	0.86	-6.24
Devonian	Givetian	389.97428	5355.108	1.27	-5.54
Devonian	Givetian	389.95054	5355.8	0.45	-6.14
Devonian	Givetian	389.88275	5357.776	0.22	-7.66
Devonian	Givetian	389.81414	5359.776	0.3	-7.65
Devonian	Givetian	389.71109	5362.78	0.5	-7.27
Devonian	Givetian	389.60749	5365.8	0.59	-10.6
Devonian	Givetian	389.5397	5367.776	0.59	-6.79

Devonian	Givetian	389.47109	5369.776	1.02	-9.04
Devonian	Givetian	389.33387	5373.776	1.3	-9.15
Devonian	Givetian	388.33065	5403.02	1.18	-9.54
Devonian	Givetian	388.19343	5407.02	0.63	-10.9
Devonian	Givetian	388.05621	5411.02	0.43	-9.09
Devonian	Givetian	387.86012	5416.736	0.25	-10.4
Devonian	Givetian	387.61999	5423.736	0.07	-7.54
Devonian	Givetian	387.51707	5426.736	-0.42	-8.94
Devonian	Givetian	387.50461	5427.099	-0.65	-5.77
Devonian	Givetian	387.44188	5428.928	1.2	-6.22
Devonian	Givetian	387.35823	5431.366	0.76	-6.29
Devonian	Givetian	387.33731	5431.976	1.21	-15.9
Devonian	Givetian	386.5531	5454.836	0.72	-5.37
Devonian	Givetian	386.48449	5456.836	0.5	-4.7
Devonian	Givetian	386.39872	5459.336	0.2	-5.3
Devonian	Givetian	386.36442	5460.336	0.15	-4.96
Devonian	Givetian	386.21005	5464.836	-0.12	-6.36
Devonian	Givetian	386.13485	5467.028	0.32	-5.76
Devonian	Givetian	386.06624	5469.028	0.38	-5.22
Devonian	Givetian	385.99763	5471.028	-0.16	-5.95
Devonian	Givetian	385.92902	5473.028	-0.62	-7.34
Devonian	Givetian	385.86041	5475.028	0.03	-5.54
Devonian	Givetian	385.59113	5482.878	0.18	-5.23
Devonian	Givetian	385.48821	5485.878	0.6	-9.15
Devonian	Givetian	385.43722	5487.364	-0.28	-5.07
Devonian	Givetian	385.4196	5487.878	-0.36	-6.86
Devonian	Givetian	385.40292	5488.364	-0.15	-6.13
Devonian	Givetian	385.35146	5489.864	0.16	-4.98
Devonian	Givetian	385.31	5491.364	-0.55	-6.29
Devonian	Frasnian	385.3	5491.878	0.27	-5.61
Devonian	Frasnian	385.02041	5499	0.10	-4.38

Devonian	Frasnian	384.84376	5503.5	-0.06	-7.62
Devonian	Frasnian	384.66711	5508	-1.04	-7.98
Devonian	Frasnian	384.31381	5517	-0.18	-11.00
Devonian	Frasnian	384.13717	5521.5	1.01	-9.35
Devonian	Frasnian	383.96052	5526	1.32	-4.46
Devonian	Frasnian	383.78387	5530.5	0.87	-12.24
Devonian	Frasnian	383.60722	5535	1.62	-2.60
Devonian	Frasnian	383.43057	5539.5	-0.14	-11.25
Devonian	Frasnian	383.25392	5544	0.40	-9.04
Devonian	Frasnian	383.07727	5548.5	-0.01	-7.62
Devonian	Frasnian	382.46882	5564	0.82	-7.77
Devonian	Frasnian	382.29217	5568.5	0.93	-7.33
Devonian	Frasnian	382.11552	5573	0.55	-9.43
Devonian	Frasnian	381.93887	5577.5	-0.44	-14.95
Devonian	Frasnian	381.76222	5582	1.61	-10.78
Devonian	Frasnian	381.58557	5586.5	1.32	-8.96
Devonian	Frasnian	381.40892	5591	2.39	-11.47
Devonian	Frasnian	381.23228	5595.5	2.09	-9.44
Devonian	Frasnian	381.05563	5600	-1.23	-11.63
Devonian	Frasnian	380.87898	5604.5	1.41	-10.03
Devonian	Frasnian	380.70233	5609	2.23	-8.26
Devonian	Frasnian	380.52568	5613.5	0.97	-7.07
Devonian	Frasnian	380.17238	5622.5	2.92	-11.96
Devonian	Frasnian	379.99574	5627	0.88	-8.50
Devonian	Frasnian	379.81909	5631.5	0.14	-10.47
Devonian	Frasnian	379.64244	5636	0.96	-12.33
Devonian	Frasnian	379.46579	5640.5	0.68	-16.02
Devonian	Frasnian	379.07324	5650.5	2.19	-8.57
Devonian	Frasnian	378.60217	5662.5	2.35	-7.10
Devonian	Frasnian	378.48441	5665.5	1.33	-8.37
Devonian	Frasnian	378.36664	5668.5	1.33	-11.46

Devonian	Frasnian	378.30776	5670	1.40	-7.61	
Devonian	Frasnian	378.18999	5673	0.52	-7.95	
Devonian	Frasnian	378.07223	5676	1.69	-7.96	
Devonian	Frasnian	377.95446	5679	2.51	-7.38	
Devonian	Frasnian	377.8367	5682	1.21	-9.00	
Devonian	Frasnian	377.67968	5686	1.14	-7.88	
Devonian	Frasnian	377.56191	5689	1.13	-6.84	
Devonian	Frasnian	377.32638	5695	1.3		joachimski et al 2002
Devonian	Frasnian	377.28712	5696	0.85		joachimski et al 2002
Devonian	Frasnian	377.18898	5698.5	1.15		joachimski et al 2002
Devonian	Frasnian	377.14973	5699.5	1.75		joachimski et al 2002
Devonian	Frasnian	377.1301	5700	1.8		joachimski et al 2002
Devonian	Frasnian	377.09085	5701	1.35		joachimski et al 2002
Devonian	Frasnian	377.04767	5702.1	0.65		joachimski et al 2002
Devonian	Frasnian	376.94168	5704.8	2.05		joachimski et al 2002
Devonian	Frasnian	376.9299	5705.1	1.8		joachimski et al 2002
Devonian	Frasnian	376.89457	5706	1.75		joachimski et al 2002
Devonian	Frasnian	376.81606	5708	2.1		joachimski et al 2002
Devonian	Frasnian	376.80821	5708.2	1.2		joachimski et al 2002
Devonian	Frasnian	376.79643	5708.5	1.6		joachimski et al 2002
Devonian	Frasnian	376.76503	5709.3	1.95		joachimski et al 2002
Devonian	Frasnian	376.74933	5709.7	1.8		joachimski et al 2002
Devonian	Frasnian	376.71792	5710.5	1.7		joachimski et al 2002
Devonian	Frasnian	376.67867	5711.5	1.2		joachimski et al 2002
Devonian	Frasnian	376.50202	5716	-0.2		joachimski et al 2002
Devonian	Frasnian	376.30574	5721	-0.5		joachimski et al 2002
Devonian	Frasnian	376.10947	5726	1.3		joachimski et al 2002
Devonian	Frasnian	376.07021	5727	2.05		joachimski et al 2002
Devonian	Frasnian	376.03095	5728	2.3		joachimski et al 2002
Devonian	Frasnian	376.01133	5728.5	1.9		joachimski et al 2002
Devonian	Frasnian	375.9917	5729	2.15		joachimski et al 2002

Devonian	Frasnian	375.97992	5729.3	1.38	joachimski et al 2002
Devonian	Frasnian	375.96815	5729.6	2.12	joachimski et al 2002
Devonian	Frasnian	375.95637	5729.9	0.65	joachimski et al 2002
Devonian	Frasnian	375.79542	5734	0.2	joachimski et al 2002
Devonian	Frasnian	375.69729	5736.5	0.7	joachimski et al 2002
Devonian	Frasnian	375.68158	5736.9	0.15	joachimski et al 2002
Devonian	Frasnian	375.66588	5737.3	0.38	joachimski et al 2002
Devonian	Frasnian	375.65803	5737.5	-0.8	joachimski et al 2002
Devonian	Frasnian	375.63055	5738.2	0.18	joachimski et al 2002
Devonian	Frasnian	375.56774	5739.8	-0.6	joachimski et al 2002
Devonian	Frasnian	375.4696	5742.3	0.25	joachimski et al 2002
Devonian	Frasnian	375.44213	5743	-0.2	joachimski et al 2002
Devonian	Frasnian	375.40287	5744	0.18	joachimski et al 2002
Devonian	Frasnian	375.32436	5746	0.38	joachimski et al 2002
Devonian	Frasnian	375.28511	5747	-0.38	joachimski et al 2002
Devonian	Frasnian	375.24585	5748	0.68	joachimski et al 2002
Devonian	Frasnian	375.22622	5748.5	-0.7	joachimski et al 2002
Devonian	Frasnian	375.20659	5749	0.34	joachimski et al 2002
Devonian	Frasnian	375.19874	5749.2	1.88	joachimski et al 2002
Devonian	Frasnian	375.18697	5749.5	2.37	joachimski et al 2002
Devonian	Frasnian	375.16734	5750	2.68	joachimski et al 2002
Devonian	Frasnian	375.14771	5750.5	2.7	joachimski et al 2002
Devonian	Frasnian	375.12808	5751	1.84	joachimski et al 2002
Devonian	Frasnian	375.10846	5751.5	2.1	joachimski et al 2002
Devonian	Frasnian	375.08883	5752	2.6	joachimski et al 2002
Devonian	Frasnian	375.04957	5753	3.28	joachimski et al 2002
Devonian	Frasnian	375.01032	5754	2.95	joachimski et al 2002
Devonian	Frasnian	374.81404	5759	1.9	joachimski et al 2002
Devonian	Frasnian	374.79441	5759.5	2.68	joachimski et al 2002
Devonian	Frasnian	374.7159	5761.5	2.08	joachimski et al 2002
Devonian	Frasnian	374.53926	5766	3.2	joachimski et al 2002

Devonian	Frasnian	374.51	5767	2.9	joachimski et al 2002
Devonian	Famennian	374.5	5770	3.73	joachimski et al 2002
Devonian	Famennian	374.45049	5771	3	joachimski et al 2002
Devonian	Famennian	374.41087	5771.8	3.38	joachimski et al 2002
Devonian	Famennian	374.40097	5772	2.8	joachimski et al 2002
Devonian	Famennian	374.38612	5772.3	2.9	joachimski et al 2002
Devonian	Famennian	374.36136	5772.8	2.2	joachimski et al 2002
Devonian	Famennian	374.35146	5773	2.35	joachimski et al 2002
Devonian	Famennian	374.30194	5774	2.83	joachimski et al 2002
Devonian	Famennian	374.20291	5776	2.95	joachimski et al 2002
Devonian	Famennian	374.17816	5776.5	2.6	joachimski et al 2002
Devonian	Famennian	374.1534	5777	1.7	joachimski et al 2002
Devonian	Famennian	374.05437	5779	1.85	joachimski et al 2002
Devonian	Famennian	373.90583	5782	1.68	joachimski et al 2002
Devonian	Famennian	373.8068	5784.00	0.987	-7.8672
Devonian	Famennian	373.28689	5794.50	0.176	-10.426
Devonian	Famennian	372.54417	5809.50	0.475	-8.8919
Devonian	Famennian	372.24709	5815.50	0.909	-8.8171
Devonian	Famennian	372.04903	5819.50	0.706	-7.2827
Devonian	Famennian	371.97476	5821.00	0.397	-6.9503
Devonian	Famennian	371.95	5821.50	0.255	-7.299
Devonian	Famennian	371.87573	5823.00	0.102	-6.5477
Devonian	Famennian	371.80146	5824.50	0.164	-10.504
Devonian	Famennian	371.72718	5826.00	-0.089	-8.8084
Devonian	Famennian	371.65291	5827.50	0.139	-6.7488
Devonian	Famennian	371.57864	5829.00	0.007	-6.3191
Devonian	Famennian	371.50437	5830.50	-0.313	-6.5338
Devonian	Famennian	371.4301	5832.00	-0.276	-6.2469
Devonian	Famennian	371.35583	5833.50	-0.098	-5.9784
Devonian	Famennian	371.28155	5835.00	-0.126	-6.0859
Devonian	Famennian	371.20728	5836.50	-0.05	-5.4117

Devonian	Famennian	371.13301	5838.00	0.112	-6.2188
Devonian	Famennian	371.05874	5839.50	-0.115	-6.1998
Devonian	Famennian	370.98447	5841.00	0.507	-6.237
Devonian	Famennian	370.91019	5842.50	0.897	-6.1476
Devonian	Famennian	370.83592	5844.00	1.101	-6.1321
Devonian	Famennian	370.76165	5845.50	0.479	-6.3307
Devonian	Famennian	370.68738	5847.00	0.569	-6.2843
Devonian	Famennian	370.61311	5848.50	0.222	-6.2829
Devonian	Famennian	370.53883	5850.00	0.711	-6.6246
Devonian	Famennian	370.46456	5851.50	0.54	-6.2416
Devonian	Famennian	370.39029	5853.00	0.253	-6.5684
Devonian	Famennian	370.31602	5854.50	0.269	-6.5676
Devonian	Famennian	370.24175	5856.00	0.713	-6.231
Devonian	Famennian	370.16748	5857.50	0.327	-6.5548
Devonian	Famennian	370.01893	5860.50	0.552	-6.5705
Devonian	Famennian	369.94466	5862.00	-0.12	-6.3696
Devonian	Famennian	369.79612	5865.00	0.264	-6.225
Devonian	Famennian	369.72184	5866.50	0.193	-6.388
Devonian	Famennian	369.64757	5868.00	0.395	-5.9301
Devonian	Famennian	369.5733	5869.50	0.324	-6.0612
Devonian	Famennian	369.49903	5871.00	0.288	-5.9115
Devonian	Famennian	369.42476	5872.50	0.094	-6.3544
Devonian	Famennian	369.35049	5874.00	0.152	-6.8234
Devonian	Famennian	369.27621	5875.50	0.1	-6.1798
Devonian	Famennian	369.20194	5877.00	0.518	-6.1258
Devonian	Famennian	368.97913	5881.50	0.647	-6.0203
Devonian	Famennian	368.38495	5893.50	0.571	-6.2522
Devonian	Famennian	368.01359	5901.00	-0.571	-6.0784
Devonian	Famennian	367.7165	5907.00	-1.805	-5.2122
Devonian	Famennian	367.04806	5920.50	-1.009	-5.8522
Devonian	Famennian	366.99854	5921.50	0.59	-6.41

Devonian	Famennian	366.00825	5941.50	1.01	-4.2
Devonian	Famennian	364.96845	5962.50	0.64	-4.82
Devonian	Famennian	362.64126	6009.50	2.31	-6.02
Devonian	Famennian	362.39369	6014.50	2.03	-6.14
Devonian	Famennian	362.04709	6021.50	1.65	-5.9
Devonian	Famennian	361.94806	6023.50	2.48	-4.65
Devonian	Famennian	361.20534	6038.50	0.87	-3.58
Devonian	Famennian	361.13107	6040.00	3.82	-6.30
Devonian	Famennian	361.0568	6041.50	3.72	-5.65
Devonian	Famennian	360.98252	6043.00	4.17	-5.87
Devonian	Famennian	360.83398	6046.00	3.83	-6.43
Devonian	Famennian	360.75971	6047.50	4.36	-5.66
Devonian	Famennian	360.68544	6049.00	4.77	-6.00
Devonian	Famennian	360.61117	6050.50	4.75	-5.63
Devonian	Famennian	360.53689	6052.00	4.71	-5.75
Devonian	Famennian	360.46262	6053.50	4.83	-6.09
Devonian	Famennian	360.38835	6055.00	4.72	-6.24
Devonian	Famennian	360.31408	6056.50	4.88	-5.91
Devonian	Famennian	360.23981	6058.00	4.85	-6.18
Devonian	Famennian	360.16553	6059.50	4.24	-5.24
Devonian	Famennian	360.09126	6061.00	4.95	-6.33
Devonian	Famennian	360.01699	6062.50	4.88	-5.99
Devonian	Famennian	359.94272	6064.00	5.20	-6.03
Devonian	Famennian	359.86845	6065.50	4.96	-6.37
Devonian	Famennian	359.79417	6067.00	4.59	-6.09
Devonian	Famennian	359.7199	6068.50	4.41	-5.83
Devonian	Famennian	359.64563	6070.00	3.89	-6.31
Devonian	Famennian	359.57136	6071.50	2.09	-5.18
Devonian	Famennian	359.49709	6073.00	2.33	-6.61
Devonian	Famennian	359.34854	6076.00	0.27	-5.93
Devonian	Famennian	359.27427	6077.50	-0.02	-5.79

Devonian	Famennian	359.21	6079.00	1.24	-6.32
Mississippian	Tournaisian	359.2	6081.00	0.72	-5.66
Mississippian	Tournaisian	359.14406	6083	2.16	-4.11
Mississippian	Tournaisian	358.9578	6089.66	2.67	-4.81
Mississippian	Tournaisian	358.87501	6092.62	2.2	-4.7
Mississippian	Tournaisian	358.70944	6098.54	2.4	-5.41
Mississippian	Tournaisian	358.64736	6100.76	2.67	-6.41
Mississippian	Tournaisian	358.44039	6108.16	1.6	-6.72
Mississippian	Tournaisian	358.31622	6112.6	2.99	-7.45
Mississippian	Tournaisian	358.11429	6119.82	3.29	-4.6
Mississippian	Tournaisian	358.01081	6123.52	3.21	-4.92
Mississippian	Tournaisian	357.88663	6127.96	3.67	-3.73
Mississippian	Tournaisian	357.86594	6128.7	3.79	-5
Mississippian	Tournaisian	357.78315	6131.66	4.03	-4.11
Mississippian	Tournaisian	357.76245	6132.4	3.86	-4.62
Mississippian	Tournaisian	357.67967	6135.36	4.18	-3.66
Mississippian	Tournaisian	357.55549	6139.8	4.07	-3.97
Mississippian	Tournaisian	357.5141	6141.28	4.43	-3.49
Mississippian	Tournaisian	357.45201	6143.5	4.58	-4.34
Mississippian	Tournaisian	357.32784	6147.94	5.37	-3.19
Mississippian	Tournaisian	357.26575	6150.16	5.36	-3.54
Mississippian	Tournaisian	357.12087	6155.34	5.5	-3.77
Mississippian	Tournaisian	357.05878	6157.56	6.25	-3.87
Mississippian	Tournaisian	356.9967	6159.78	6.47	-3.13
Mississippian	Tournaisian	356.93461	6162	6.88	-2.66
Mississippian	Tournaisian	356.88734	6163.69	7.1	-3.01
Mississippian	Tournaisian	356.83113	6165.7	7.02	-3.14
Mississippian	Tournaisian	356.81043	6166.44	6.86	-3.09
Mississippian	Tournaisian	356.74834	6168.66	6.96	-3.27
Mississippian	Tournaisian	356.68625	6170.88	6.29	-4.2
Mississippian	Tournaisian	356.64486	6172.36	7.04	-3.02

Mississippian	Tournaisian	356.62416	6173.1	5.87	-4.55
Mississippian	Tournaisian	356.52068	6176.8	6.61	-3.37
Mississippian	Tournaisian	356.49999	6177.54	6.63	-3.39
Mississippian	Tournaisian	356.4172	6180.5	6.24	-3.33
Mississippian	Tournaisian	356.37581	6181.98	6.55	-2.74
Mississippian	Tournaisian	356.33442	6183.46	5.95	-2.49
Mississippian	Tournaisian	356.25163	6186.42	5.75	-3.07
Mississippian	Tournaisian	356.12746	6190.86	5.47	-3.41
Mississippian	Tournaisian	356.10676	6191.6	5.27	-3.26
Mississippian	Tournaisian	356.02398	6194.56	4.98	-3.1
Mississippian	Tournaisian	356.00328	6195.3	4.9	-4.56
Mississippian	Tournaisian	355.94119	6197.52	3.8	-3.53
Mississippian	Tournaisian	355.8791	6199.74	4.51	-4.92
Mississippian	Tournaisian	355.83995	6201.14	4.54	-3.89
Mississippian	Tournaisian	355.75493	6204.18	4.82	-3.56
Mississippian	Tournaisian	355.71353	6205.66	4.5	-4.5
Mississippian	Tournaisian	355.69284	6206.4	4.57	-3.9
Mississippian	Tournaisian	355.65256	6207.84	3.85	-4.06
Mississippian	Tournaisian	355.63075	6208.62	3.65	-4.27
Mississippian	Tournaisian	355.48476	6213.84	4.84	-3.4
Mississippian	Tournaisian	355.44448	6215.28	4.81	-3.7
Mississippian	Tournaisian	355.33932	6219.04	5.23	-3.5
Mississippian	Tournaisian	355.27779	6221.24	5.6	-3.24
Mississippian	Tournaisian	355.17543	6224.9	5.73	-3.52
Mississippian	Tournaisian	355.13404	6226.38	5.56	-3.96
Mississippian	Tournaisian	355.06804	6228.74	5.76	-3.29
Mississippian	Tournaisian	354.96847	6232.3	5.63	-3.51
Mississippian	Tournaisian	354.89184	6235.04	6.04	-4.08
Mississippian	Tournaisian	354.80794	6238.04	6.36	-3.9
Mississippian	Tournaisian	354.752	6240.04	6.02	-3.24
Mississippian	Tournaisian	354.71844	6241.24	5.94	-3.64

Mississippian	Tournaisian	354.61216	6245.04	6.62	-3.44
Mississippian	Tournaisian	354.4052	6252.44	5.77	-3.6
Mississippian	Tournaisian	354.36045	6254.04	5.83	-2.76
Mississippian	Tournaisian	354.08077	6264.04	4.83	-2.87
Mississippian	Tournaisian	353.99687	6267.04	4.74	-3.7
Mississippian	Tournaisian	353.63329	6280.04	4.86	-2.97
Mississippian	Tournaisian	353.49345	6285.04	4.67	-3.3
Mississippian	Tournaisian	353.43863	6287.00	4.53	-4.07
Mississippian	Tournaisian	353.41766	6287.75	3.98	-4.40
Mississippian	Tournaisian	353.39668	6288.50	4.03	-4.46
Mississippian	Tournaisian	353.3757	6289.25	4.18	-5.21
Mississippian	Tournaisian	353.35473	6290.00	3.94	-4.25
Mississippian	Tournaisian	353.33515	6290.70	3.83	-6.96
Mississippian	Tournaisian	353.33375	6290.75	3.88	-3.21
Mississippian	Tournaisian	353.31278	6291.50	3.44	-4.26
Mississippian	Tournaisian	353.2918	6292.25	3.45	-3.86
Mississippian	Tournaisian	353.27082	6293.00	2.98	-4.95
Mississippian	Tournaisian	353.24985	6293.75	2.71	-4.85
Mississippian	Tournaisian	353.24286	6294.00	2.50	-7.21
Mississippian	Tournaisian	353.22887	6294.50	2.33	-4.04
Mississippian	Tournaisian	353.2079	6295.25	1.44	-5.49
Mississippian	Tournaisian	353.16595	6296.75	2.20	-4.24
Mississippian	Tournaisian	353.14497	6297.50	1.85	-4.84
Mississippian	Tournaisian	353.12399	6298.25	1.85	-4.30
Mississippian	Tournaisian	353.10302	6299.00	1.88	-4.13
Mississippian	Tournaisian	353.08204	6299.75	1.60	-4.71
Mississippian	Tournaisian	353.06107	6300.50	1.39	-4.56
Mississippian	Tournaisian	353.04009	6301.25	1.85	-4.55
Mississippian	Tournaisian	353.0331	6301.50	1.92	-5.96
Mississippian	Tournaisian	353.02191	6301.90	2.03	-5.91
Mississippian	Tournaisian	352.99814	6302.75	2.20	-3.56

Mississippian	Tournaisian	352.95619	6304.25	2.22	-4.67
Mississippian	Tournaisian	352.93521	6305.00	2.55	-6.23
Mississippian	Tournaisian	352.92822	6305.25	2.67	-4.30
Mississippian	Tournaisian	352.91424	6305.75	3.01	-4.64
Mississippian	Tournaisian	352.89326	6306.50	3.16	-1.64
Mississippian	Tournaisian	352.87228	6307.25	2.92	-2.63
Mississippian	Tournaisian	352.85131	6308.00	2.88	-2.56
Mississippian	Tournaisian	352.83033	6308.75	3.17	-1.27
Mississippian	Tournaisian	352.82334	6309.00	2.40	-3.81
Mississippian	Tournaisian	352.79537	6310.00	2.53	-4.25
Mississippian	Tournaisian	352.73944	6312.00	2.90	-5.43
Mississippian	Tournaisian	352.6835	6314.00	2.41	-6.40
Mississippian	Tournaisian	352.5996	6317.00	2.40	-6.88
Mississippian	Tournaisian	352.54366	6319.00	2.37	-6.34
Mississippian	Tournaisian	352.51569	6320.00	2.88	-6.22
Mississippian	Tournaisian	352.45976	6322.00	2.93	-6.23
Mississippian	Tournaisian	352.43179	6323.00	2.83	-6.37
Mississippian	Tournaisian	352.37586	6325.00	1.94	-5.01
Mississippian	Tournaisian	352.34789	6326.00	2.02	-5.17
Mississippian	Tournaisian	352.29195	6328.00	1.64	-3.26
Mississippian	Tournaisian	352.23602	6330.00	1.63	-2.65
Mississippian	Tournaisian	352.18008	6332.00	1.73	-5.05
Mississippian	Tournaisian	352.15211	6333.00	1.83	-4.57
Mississippian	Tournaisian	352.12414	6334.00	1.48	-5.52
Mississippian	Tournaisian	352.09618	6335.00	1.54	-4.79
Mississippian	Tournaisian	352.04024	6337.00	1.22	-3.91
Mississippian	Tournaisian	352.01227	6338.00	1.63	-4.04
Mississippian	Tournaisian	351.98431	6339.00	1.60	-4.72
Mississippian	Tournaisian	351.95634	6340.00	1.87	-4.71
Mississippian	Tournaisian	351.92837	6341.00	1.80	-4.25
Mississippian	Tournaisian	351.87243	6343.00	1.96	-4.91

Mississippian	Tournaisian	351.8165	6345.00	2.03	-3.91
Mississippian	Tournaisian	351.7326	6348.00	1.61	-6.19
Mississippian	Tournaisian	351.70463	6349.00	1.92	-5.63
Mississippian	Tournaisian	351.64869	6351.00	2.14	-6.02
Mississippian	Tournaisian	351.62072	6352.00	1.77	-6.60
Mississippian	Tournaisian	351.56479	6354.00	2.20	-5.81
Mississippian	Tournaisian	351.50885	6356.00	2.68	-4.55
Mississippian	Tournaisian	351.48089	6357.00	2.76	-4.75
Mississippian	Tournaisian	351.42495	6359.00	2.12	-5.18
Mississippian	Tournaisian	351.22918	6366.00	2.02	-5.91
Mississippian	Tournaisian	351.17324	6368.00	1.15	-4.33
Mississippian	Tournaisian	351.14527	6369.00	1.27	-4.54
Mississippian	Tournaisian	351.1173	6370.00	1.10	-4.75
Mississippian	Tournaisian	351.06137	6372.00	0.74	-4.80
Mississippian	Tournaisian	350.97746	6375.00	0.99	-4.69
Mississippian	Tournaisian	350.9495	6376.00	1.12	-4.30
Mississippian	Tournaisian	350.92153	6377.00	0.23	-5.45
Mississippian	Tournaisian	350.86559	6379.00	0.96	-4.34
Mississippian	Tournaisian	350.80966	6381.00	0.65	-5.82
Mississippian	Tournaisian	350.75372	6383.00	1.88	-3.95
Mississippian	Tournaisian	350.69779	6385.00	2.31	-3.66
Mississippian	Tournaisian	350.61388	6388.00	1.86	-4.05
Mississippian	Tournaisian	350.58592	6389.00	2.44	-4.15
Mississippian	Tournaisian	350.52998	6391.00	1.46	-4.31
Mississippian	Tournaisian	350.47404	6393.00	1.94	-4.59
Mississippian	Tournaisian	350.36217	6397.00	2.32	-4.07
Mississippian	Tournaisian	350.33421	6398.00	2.20	-4.68
Mississippian	Tournaisian	350.27827	6400.00	2.16	-4.89
Mississippian	Tournaisian	350.22233	6402.00	2.38	-4.16
Mississippian	Tournaisian	350.1664	6404.00	2.45	-3.75
Mississippian	Tournaisian	350.13843	6405.00	2.35	-3.75

Mississippian	Tournaisian	350.08249	6407.00	2.29	-3.96
Mississippian	Tournaisian	350.02656	6409.00	2.38	-4.63
Mississippian	Tournaisian	349.97062	6411.00	2.59	-4.04
Mississippian	Tournaisian	349.94266	6412.00	2.47	-3.97
Mississippian	Tournaisian	349.83078	6416.00	2.39	-4.19
Mississippian	Tournaisian	349.74688	6419.00	2.29	-3.36
Mississippian	Tournaisian	349.71891	6420.00	2.16	-3.78
Mississippian	Tournaisian	349.66298	6422.00	2.36	-5.50
Mississippian	Tournaisian	349.60704	6424.00	2.32	-3.19
Mississippian	Tournaisian	349.55111	6426.00	2.19	-5.40
Mississippian	Tournaisian	349.49517	6428.00	2.40	-3.27
Mississippian	Tournaisian	349.43924	6430.00	2.30	-4.98
Mississippian	Tournaisian	349.41127	6431.00	2.55	-3.92
Mississippian	Tournaisian	349.35533	6433.00	2.33	-4.29
Mississippian	Tournaisian	349.2994	6435.00	2.23	-5.68
Mississippian	Tournaisian	349.24346	6437.00	2.47	-3.67
Mississippian	Tournaisian	349.15956	6440.00	2.53	-3.41
Mississippian	Tournaisian	349.13159	6441.00	2.53	-3.84
Mississippian	Tournaisian	349.10362	6442.00	2.51	-4.20
Mississippian	Tournaisian	349.07565	6443.00	2.51	-4.62
Mississippian	Tournaisian	349.04769	6444.00	2.50	-3.86
Mississippian	Tournaisian	349.01972	6445.00	2.25	-4.69
Mississippian	Tournaisian	348.99175	6446.00	2.20	-3.70
Mississippian	Tournaisian	348.93581	6448.00	2.19	-4.86
Mississippian	Tournaisian	348.90785	6449.00	2.27	-4.29
Mississippian	Tournaisian	348.87988	6450.00	2.07	-4.47
Mississippian	Tournaisian	348.85191	6451.00	2.05	-4.65
Mississippian	Tournaisian	348.82394	6452.00	1.96	-3.94
Mississippian	Tournaisian	348.79598	6453.00	1.64	-4.66
Mississippian	Tournaisian	348.76801	6454.00	1.54	-4.41
Mississippian	Tournaisian	348.74004	6455.00	1.67	-3.81

Mississippian	Tournaisian	348.65614	6458.00	1.53	-4.84
Mississippian	Tournaisian	348.62817	6459.00	1.73	-4.75
Mississippian	Tournaisian	348.6002	6460.00	2.15	-4.48
Mississippian	Tournaisian	348.57223	6461.00	1.64	-5.16
Mississippian	Tournaisian	348.54427	6462.00	1.78	-5.22
Mississippian	Tournaisian	348.5163	6463.00	2.32	-4.64
Mississippian	Tournaisian	348.48833	6464.00	1.80	-5.42
Mississippian	Tournaisian	348.46036	6465.00	0.99	-5.50
Mississippian	Tournaisian	348.43239	6466.00	0.25	-6.53
Mississippian	Tournaisian	348.37646	6468.00	-0.51	-6.37
Mississippian	Tournaisian	348.34849	6469.00	0.85	-5.85
Mississippian	Tournaisian	348.32052	6470.00	0.85	-5.67
Mississippian	Tournaisian	348.29256	6471.00	0.00	-6.23
Mississippian	Tournaisian	348.26459	6472.00	0.56	-5.99
Mississippian	Tournaisian	348.23662	6473.00	-0.64	-6.15
Mississippian	Tournaisian	348.20865	6474.00	1.18	-5.69
Mississippian	Tournaisian	348.18068	6475.00	1.10	-5.87
Mississippian	Tournaisian	348.15272	6476.00	1.31	-5.67
Mississippian	Tournaisian	348.12475	6477.00	1.42	-5.83
Mississippian	Tournaisian	348.06881	6479.00	1.12	-5.78
Mississippian	Tournaisian	348.01288	6481.00	0.48	-6.20
Mississippian	Tournaisian	347.98491	6482.00	0.99	-5.96
Mississippian	Tournaisian	347.95694	6483.00	0.99	-5.87
Mississippian	Tournaisian	347.92897	6484.00	0.95	-5.92
Mississippian	Tournaisian	347.84507	6487.00	1.03	-6.25
Mississippian	Tournaisian	347.78913	6489.00	1.06	-5.94
Mississippian	Tournaisian	347.76117	6490.00	1.14	-5.80
Mississippian	Tournaisian	347.7332	6491.00	1.36	-5.97
Mississippian	Tournaisian	347.70523	6492.00	1.40	-5.82
Mississippian	Tournaisian	347.6493	6494.00	1.53	-5.50
Mississippian	Tournaisian	347.62133	6495.00	1.42	-7.80

Mississippian	Tournaisian	347.59336	6496.00	1.67	-5.84
Mississippian	Tournaisian	347.56539	6497.00	1.80	-5.72
Mississippian	Tournaisian	347.50946	6499.00	1.75	-5.58
Mississippian	Tournaisian	347.45352	6501.00	1.72	-6.03
Mississippian	Tournaisian	347.39759	6503.00	2.17	-5.43
Mississippian	Tournaisian	347.36962	6504.00	1.78	-5.48
Mississippian	Tournaisian	347.25775	6508.00	1.81	-5.48
Mississippian	Tournaisian	347.22978	6509.00	2.01	-5.08
Mississippian	Tournaisian	347.17384	6511.00	1.90	-5.03
Mississippian	Tournaisian	347.14588	6512.00	1.72	-5.55
Mississippian	Tournaisian	346.92213	6520.00	1.66	-5.87
Mississippian	Tournaisian	346.89416	6521.00	1.65	-5.88
Mississippian	Tournaisian	346.78229	6525.00	2.05	-5.71
Mississippian	Tournaisian	346.72636	6527.00	2.29	-4.83
Mississippian	Tournaisian	346.61449	6531.00	2.16	-5.57
Mississippian	Tournaisian	346.53058	6534.00	2.29	-5.09
Mississippian	Tournaisian	346.47465	6536.00	2.20	-5.44
Mississippian	Tournaisian	346.41871	6538.00	2.48	-6.94
Mississippian	Tournaisian	346.27887	6543.00	2.42	-5.32
Mississippian	Tournaisian	346.25091	6544.00	2.39	-5.53
Mississippian	Tournaisian	346.19497	6546.00	2.53	-5.75
Mississippian	Tournaisian	346.167	6547.00	2.37	-5.53
Mississippian	Tournaisian	346.0831	6550.00	2.53	-5.48
Mississippian	Tournaisian	346.05513	6551.00	2.73	-5.49
Mississippian	Tournaisian	346.02716	6552.00	2.52	-5.45
Mississippian	Tournaisian	345.85936	6558.00	3.05	-4.41
Mississippian	Tournaisian	345.80342	6560.00	2.94	-4.94
Mississippian	Tournaisian	345.77545	6561.00	2.90	-5.26
Mississippian	Tournaisian	345.71952	6563.00	2.94	-4.57
Mississippian	Tournaisian	345.60765	6567.00	2.91	-5.29
Mississippian	Tournaisian	345.55171	6569.00	2.78	-5.33

Mississippian	Tournaisian	345.52374	6570.00	2.55	-5.27
Mississippian	Tournaisian	345.41187	6574.00	2.97	-5.30
Mississippian	Tournaisian	345.35594	6576.00	2.83	-4.83
Mississippian	Tournaisian	345.31	6578.00	2.34	-5.08
Mississippian	Visean	345.3	6579.00	2.38	-5.14
Mississippian	Visean	345.22217	6580.00	2.40	-5.00
Mississippian	Visean	345.14434	6581.00	2.49	-4.26
Mississippian	Visean	344.91084	6584.00	2.56	-4.84
Mississippian	Visean	344.28818	6592.00	2.14	-5.37
Mississippian	Visean	344.05469	6595.00	2.41	-5.27
Mississippian	Visean	343.66553	6600.00	2.53	-5.43
Mississippian	Visean	343.43203	6603.00	2.71	-4.87
Mississippian	Visean	343.27637	6605.00	2.67	-4.99
Mississippian	Visean	342.96504	6609.00	2.10	-5.42
Mississippian	Visean	342.80938	6611.00	2.09	-5.16
Mississippian	Visean	342.73155	6612.00	1.86	-5.90
Mississippian	Visean	342.57588	6614.00	2.39	-5.68
Mississippian	Visean	342.42022	6616.00	2.84	-4.52
Mississippian	Visean	342.10889	6620.00	2.29	-5.32
Mississippian	Visean	342.03106	6621.00	2.12	-5.20
Mississippian	Visean	341.87539	6623.00	2.23	-5.46
Mississippian	Visean	341.4084	6629.00	2.26	-4.44
Mississippian	Visean	341.33057	6630.00	2.23	-4.60
Mississippian	Visean	341.09707	6633.00	2.28	-5.07
Mississippian	Visean	340.94141	6635.00	2.16	-4.48
Mississippian	Visean	340.63008	6639.00	2.04	-4.72
Mississippian	Visean	340.47442	6641.00	1.95	-4.44
Mississippian	Visean	339.6961	6651.00	1.79	-4.35
Mississippian	Visean	339.30694	6656.00	1.63	-4.21
Mississippian	Visean	339.15128	6658.00	1.74	-4.54
Mississippian	Visean	339.07344	6659.00	1.27	-4.82

Mississippian	Visean	338.99561	6660.00	1.59	-4.68
Mississippian	Visean	338.91778	6661.00	1.39	-4.47
Mississippian	Visean	338.87886	6661.50	1.26	-5.23
Mississippian	Visean	338.76212	6663.00	1.20	-3.90
Mississippian	Visean	338.69985	6663.80	1.07	-4.76
Mississippian	Visean	338.68428	6664.00	0.65	-4.04
Mississippian	Visean	338.22352	6669.92	0.54	-4.01
Mississippian	Visean	338.08965	6671.64	0.70	-4.29
Mississippian	Visean	337.8795	6674.34	-0.41	-4.50
Mississippian	Visean	337.77832	6675.64	-0.09	-4.53
Mississippian	Visean	337.6857	6676.83	0.36	-5.13
Mississippian	Visean	337.5277	6678.86	0.23	-4.38
Mississippian	Visean	337.4164	6680.29	-0.13	-4.44
Mississippian	Visean	337.35024	6681.14	-0.71	-4.55
Mississippian	Visean	337.19458	6683.14	-0.64	-4.46
Mississippian	Visean	337.09184	6684.46	-0.84	-5.54
Mississippian	Visean	337	6685.64	-0.82	-6.31
Mississippian	Serpukhovian	321	6763.90	1.66	-2.50
Mississippian	Serpukhovian	320.95538	6764.10	-0.48	-5.69
Mississippian	Serpukhovian	320.34192	6766.85	-0.44	-6.81
Mississippian	Serpukhovian	320.19692	6767.50	-0.59	-6.04
Mississippian	Serpukhovian	320.15231	6767.70	-0.78	-5.20
Mississippian	Serpukhovian	319.77308	6769.40	0.67	-4.04
Mississippian	Serpukhovian	319.57231	6770.30	1.11	-4.08
Mississippian	Serpukhovian	319.27115	6771.65	0.96	-4.51
Mississippian	Serpukhovian	318.80269	6773.75	1.52	-3.95
Mississippian	Serpukhovian	318.64654	6774.45	1.01	-3.88
Mississippian	Serpukhovian	318.59077	6774.70	0.75	-4.46
Mississippian	Serpukhovian	318.23385	6776.30	1.17	-3.76
Mississippian	Serpukhovian	318.11	6776.90	1.29	-3.83
Pennsylvanian	Bashkirian	318.1	6779.50	1.33	-4.14

Pennsylvanian	Bashkirian	318.08691	6779.80	0.70	-4.73
Pennsylvanian	Bashkirian	318.06946	6780.20	1.16	-3.76
Pennsylvanian	Bashkirian	318.03238	6781.05	1.15	-3.88
Pennsylvanian	Bashkirian	318.02147	6781.30	0.90	-3.48
Pennsylvanian	Bashkirian	317.98875	6782.05	0.33	-3.51
Pennsylvanian	Bashkirian	317.95298	6782.87	-0.23	-3.73
Pennsylvanian	Bashkirian	317.93858	6783.20	-1.13	-3.62
Pennsylvanian	Bashkirian	317.80334	6786.30	-1.50	-3.71
Pennsylvanian	Bashkirian	317.79461	6786.50	-1.60	-4.22
Pennsylvanian	Bashkirian	317.78589	6786.70	-1.07	-3.89
Pennsylvanian	Bashkirian	317.76408	6787.20	-1.74	-3.01
Pennsylvanian	Bashkirian	317.7619	6787.25	-1.25	-3.67
Pennsylvanian	Bashkirian	317.74444	6787.65	-1.86	-3.81
Pennsylvanian	Bashkirian	317.74226	6787.70	-1.73	-3.79
Pennsylvanian	Bashkirian	317.67682	6789.20	-1.34	-4.89
Pennsylvanian	Bashkirian	317.6681	6789.40	-1.35	-4.99
Pennsylvanian	Bashkirian	317.66374	6789.50	-0.56	-4.03
Pennsylvanian	Bashkirian	317.60702	6790.80	2.86	-2.81
Pennsylvanian	Bashkirian	317.5983	6791.00	0.21	-3.99
Pennsylvanian	Bashkirian	317.58739	6791.25	1.29	-3.67
Pennsylvanian	Bashkirian	317.5538	6792.02	1.87	-3.72
Pennsylvanian	Bashkirian	317.55031	6792.10	1.79	-3.80
Pennsylvanian	Bashkirian	317.54682	6792.18	1.99	-3.26
Pennsylvanian	Bashkirian	317.49577	6793.35	2.09	-3.00
Pennsylvanian	Bashkirian	317.46742	6794.00	1.93	-3.78
Pennsylvanian	Bashkirian	317.4456	6794.50	1.65	-4.80
Pennsylvanian	Bashkirian	317.41725	6795.15	1.82	-3.59
Pennsylvanian	Bashkirian	317.36489	6796.35	1.92	-3.58
Pennsylvanian	Bashkirian	317.36489	6796.35	1.88	-3.61
Pennsylvanian	Bashkirian	317.35181	6796.65	2.24	-3.13
Pennsylvanian	Bashkirian	317.22747	6799.50	2.37	-3.01

Pennsylvanian	Bashkirian	317.18821	6800.40	2.36	-3.26
Pennsylvanian	Bashkirian	317.15112	6801.25	2.57	-2.85
Pennsylvanian	Bashkirian	317.12931	6801.75	2.87	-2.95
Pennsylvanian	Bashkirian	317.10095	6802.40	2.48	-3.16
Pennsylvanian	Bashkirian	317.03988	6803.80	2.84	-2.71
Pennsylvanian	Bashkirian	317.0137	6804.40	2.98	-2.64
Pennsylvanian	Bashkirian	317.00934	6804.50	2.07	-3.21
Pennsylvanian	Bashkirian	316.89155	6807.20	1.06	-4.38
Pennsylvanian	Bashkirian	316.75849	6810.25	1.87	-3.46
Pennsylvanian	Bashkirian	316.66687	6812.35	2.45	-3.06
Pennsylvanian	Bashkirian	316.64724	6812.80	2.92	-2.66
Pennsylvanian	Bashkirian	316.57918	6814.36	2.51	-2.35
Pennsylvanian	Bashkirian	316.56435	6814.70	3.01	-2.86
Pennsylvanian	Bashkirian	316.42038	6818.00	3.01	-3.00
Pennsylvanian	Bashkirian	316.35712	6819.45	2.28	-2.66
Pennsylvanian	Bashkirian	316.3135	6820.45	2.54	-3.53
Pennsylvanian	Bashkirian	316.31132	6820.50	2.10	-3.00
Pennsylvanian	Bashkirian	316.15862	6824.00	2.11	-2.67
Pennsylvanian	Bashkirian	316.09318	6825.50	1.96	-2.68
Pennsylvanian	Bashkirian	316.05392	6826.40	1.85	-3.25
Pennsylvanian	Bashkirian	316.04083	6826.70	2.22	-3.17
Pennsylvanian	Bashkirian	315.9623	6828.50	1.46	-3.46
Pennsylvanian	Bashkirian	315.91213	6829.65	2.17	-5.59
Pennsylvanian	Bashkirian	315.91213	6829.65	1.77	-3.01
Pennsylvanian	Bashkirian	315.80961	6832.00	2.29	-3.14
Pennsylvanian	Bashkirian	315.76599	6833.00	2.77	-2.63
Pennsylvanian	Bashkirian	315.64601	6835.75	2.57	-2.37
Pennsylvanian	Bashkirian	315.59148	6837.00	2.91	-2.27
Pennsylvanian	Bashkirian	315.47369	6839.70	2.88	-2.36
Pennsylvanian	Bashkirian	315.44533	6840.35	2.75	-3.22
Pennsylvanian	Bashkirian	315.38862	6841.65	2.92	-1.95

Pennsylvanian	Bashkirian	315.37989	6841.85	2.46	-3.33
Pennsylvanian	Bashkirian	315.35153	6842.50	2.71	-2.62
Pennsylvanian	Bashkirian	315.34717	6842.60	2.86	-3.44
Pennsylvanian	Bashkirian	315.32754	6843.05	2.59	-1.83
Pennsylvanian	Bashkirian	315.32536	6843.10	2.63	-2.46
Pennsylvanian	Bashkirian	315.31445	6843.35	2.44	-2.45
Pennsylvanian	Bashkirian	315.25774	6844.65	2.82	-4.72
Pennsylvanian	Bashkirian	315.22065	6845.50	2.03	-1.69
Pennsylvanian	Bashkirian	315.20757	6845.80	2.63	-5.24
Pennsylvanian	Bashkirian	315.19012	6846.20	2.24	-1.67
Pennsylvanian	Bashkirian	315.01561	6850.20	2.78	-4.81
Pennsylvanian	Bashkirian	314.97198	6851.20	2.78	-4.83
Pennsylvanian	Bashkirian	314.92836	6852.20	1.87	-2.55
Pennsylvanian	Bashkirian	314.7953	6855.25	2.38	-2.60
Pennsylvanian	Bashkirian	314.78439	6855.50	1.95	-6.87
Pennsylvanian	Bashkirian	314.70586	6857.30	1.78	-2.59
Pennsylvanian	Bashkirian	314.68187	6857.85	1.28	-4.43
Pennsylvanian	Bashkirian	314.44847	6863.20	3.28	-2.59
Pennsylvanian	Bashkirian	314.42665	6863.70	2.17	-3.09
Pennsylvanian	Bashkirian	314.38521	6864.65	3.26	-5.80
Pennsylvanian	Bashkirian	314.15181	6870.00	2.11	-1.79
Pennsylvanian	Bashkirian	314.02093	6873.00	2.61	-1.84
Pennsylvanian	Bashkirian	314.01875	6873.05	2.25	-2.48
Pennsylvanian	Bashkirian	313.9424	6874.80	2.17	-2.35
Pennsylvanian	Bashkirian	313.86823	6876.50	2.27	-2.33
Pennsylvanian	Bashkirian	313.82461	6877.50	2.04	-2.00
Pennsylvanian	Bashkirian	313.80279	6878.00	3.24	-0.28
Pennsylvanian	Bashkirian	313.7788	6878.55	2.52	-2.69
Pennsylvanian	Bashkirian	313.67192	6881.00	2.49	-2.46
Pennsylvanian	Bashkirian	313.6392	6881.75	2.13	-3.07
Pennsylvanian	Bashkirian	313.63047	6881.95	1.93	-4.92

Pennsylvanian	Bashkirian	313.54104	6884.00	2.68	-2.80
Pennsylvanian	Bashkirian	313.49959	6884.95	2.09	-2.99
Pennsylvanian	Bashkirian	313.37962	6887.70	2.04	-3.41
Pennsylvanian	Bashkirian	313.23565	6891.00	1.81	-3.40
Pennsylvanian	Bashkirian	313.12658	6893.50	2.49	-3.08
Pennsylvanian	Bashkirian	313.01752	6896.00	2.65	-3.53
Pennsylvanian	Bashkirian	312.83865	6900.10	2.17	-3.69
Pennsylvanian	Bashkirian	312.75576	6902.00	1.54	-4.33
Pennsylvanian	Bashkirian	312.60743	6905.40	2.08	-3.08
Pennsylvanian	Bashkirian	312.56599	6906.35	2.43	-2.40
Pennsylvanian	Bashkirian	312.41984	6909.70	2.29	-2.39
Pennsylvanian	Bashkirian	312.29768	6912.50	3.03	-1.54
Pennsylvanian	Bashkirian	312.17989	6915.20	2.66	-2.30
Pennsylvanian	Bashkirian	312.0272	6918.70	1.33	-2.34
Pennsylvanian	Bashkirian	311.92686	6921.00	2.57	-2.22
Pennsylvanian	Bashkirian	311.84615	6922.85	1.00	-2.60
Pennsylvanian	Bashkirian	311.71	6926.20	2.22	-2.30
Pennsylvanian	Moscovian	311.7	6928.90	1.63	-2.98
Pennsylvanian	Moscovian	311.64732	6930.45	0.99	-2.60
Pennsylvanian	Moscovian	311.61163	6931.50	1.25	-3.55
Pennsylvanian	Moscovian	311.42266	6937.06	1.67	-4.21
Pennsylvanian	Moscovian	311.34313	6939.40	2.48	-2.62
Pennsylvanian	Moscovian	311.33973	6939.50	2.07	-3.40
Pennsylvanian	Moscovian	311.29894	6940.70	2.07	-2.86
Pennsylvanian	Moscovian	311.27515	6941.40	2.69	-2.91
Pennsylvanian	Moscovian	311.20378	6943.50	2.61	-2.25
Pennsylvanian	Moscovian	311.09502	6946.70	2.26	-2.59
Pennsylvanian	Moscovian	311.03384	6948.50	1.60	-3.09
Pennsylvanian	Moscovian	310.8503	6953.90	2.06	-3.03
Pennsylvanian	Moscovian	310.76873	6956.30	1.62	-3.32
Pennsylvanian	Moscovian	310.73134	6957.40	1.91	-0.62

Pennsylvanian	Moscovian	310.61918	6960.70	1.99	1.40
Pennsylvanian	Moscovian	310.49173	6964.45	1.92	-3.03
Pennsylvanian	Moscovian	310.44755	6965.75	1.32	-5.58
Pennsylvanian	Moscovian	310.41866	6966.60	3.22	-3.31
Pennsylvanian	Moscovian	310.37787	6967.80	2.53	-2.66
Pennsylvanian	Moscovian	310.27931	6970.70	2.49	-0.87
Pennsylvanian	Moscovian	310.20453	6972.90	3.32	1.55
Pennsylvanian	Moscovian	310.12126	6975.35	3.18	-2.49
Pennsylvanian	Moscovian	310.0142	6978.50	3.58	-2.64
Pennsylvanian	Moscovian	309.98531	6979.35	2.77	-2.60
Pennsylvanian	Moscovian	309.97851	6979.55	2.53	-2.68
Pennsylvanian	Moscovian	309.94452	6980.55	1.96	-2.92
Pennsylvanian	Moscovian	309.86125	6983.00	4.30	-3.02
Pennsylvanian	Moscovian	309.81027	6984.50	3.30	-2.55
Pennsylvanian	Moscovian	309.50778	6993.40	3.87	-3.85
Pennsylvanian	Moscovian	309.39562	6996.70	3.32	-3.16
Pennsylvanian	Moscovian	309.19509	7002.60	3.07	-3.71
Pennsylvanian	Moscovian	309.15431	7003.80	2.93	-2.69
Pennsylvanian	Moscovian	309.13051	7004.50	2.64	-2.99
Pennsylvanian	Moscovian	309.08973	7005.70	3.16	-2.88
Pennsylvanian	Moscovian	309.03705	7007.25	3.85	-2.97
Pennsylvanian	Moscovian	308.98097	7008.90	3.24	-3.04
Pennsylvanian	Moscovian	308.94528	7009.95	3.39	-2.59
Pennsylvanian	Moscovian	308.83312	7013.25	3.24	-3.26
Pennsylvanian	Moscovian	308.73965	7016.00	2.88	-1.95
Pennsylvanian	Moscovian	308.63089	7019.20	3.98	-3.16
Pennsylvanian	Moscovian	308.49834	7023.10	3.31	-2.49
Pennsylvanian	Moscovian	308.37258	7026.80	3.11	-2.60
Pennsylvanian	Moscovian	308.27742	7029.60	2.68	-3.25
Pennsylvanian	Moscovian	308.01911	7037.20	2.09	-2.49
Pennsylvanian	Moscovian	308.01571	7037.30	1.74	-2.87

Pennsylvanian	Moscovian	307.98512	7038.20	1.09	-2.43
Pennsylvanian	Moscovian	307.98342	7038.25	1.02	-2.56
Pennsylvanian	Moscovian	307.95283	7039.15	1.39	-3.67
Pennsylvanian	Moscovian	307.92734	7039.90	2.26	-2.30
Pennsylvanian	Moscovian	307.88995	7041.00	2.50	-2.51
Pennsylvanian	Moscovian	307.84577	7042.30	2.13	-0.11
Pennsylvanian	Moscovian	307.83557	7042.60	1.99	-1.11
Pennsylvanian	Moscovian	307.62825	7048.70	1.86	-2.75
Pennsylvanian	Moscovian	307.58406	7050.00	1.85	-3.39
Pennsylvanian	Moscovian	307.51609	7052.00	2.71	-2.80
Pennsylvanian	Moscovian	307.42772	7054.60	3.31	-2.97
Pennsylvanian	Moscovian	307.40053	7055.40	3.89	-2.45
Pennsylvanian	Moscovian	307.35804	7056.65	2.74	-2.91
Pennsylvanian	Moscovian	307.31386	7057.95	2.89	-2.86
Pennsylvanian	Moscovian	307.21699	7060.80	2.22	-2.89
Pennsylvanian	Moscovian	307.21	7061.30	2.71	-2.74
Pennsylvanian	Kasimovian	307.2	7063.60	2.38	-2.58
Pennsylvanian	Kasimovian	307.18092	7065.35	1.91	-2.17
Pennsylvanian	Kasimovian	307.14983	7068.20	1.89	0.11
Pennsylvanian	Kasimovian	307.11494	7071.40	1.96	-2.78
Pennsylvanian	Kasimovian	307.10403	7072.40	1.92	-2.95
Pennsylvanian	Kasimovian	307.09313	7073.40	1.51	-2.74
Pennsylvanian	Kasimovian	307.09204	7073.50	1.45	-2.93
Pennsylvanian	Kasimovian	307.09204	7073.50	1.52	-2.77
Pennsylvanian	Kasimovian	307.09149	7073.55	1.14	-4.72
Pennsylvanian	Kasimovian	307.03587	7078.65	1.55	-2.37
Pennsylvanian	Kasimovian	307.01897	7080.20	1.81	-3.15
Pennsylvanian	Kasimovian	306.98298	7083.50	2.15	-2.01
Pennsylvanian	Kasimovian	306.92409	7088.90	1.29	-5.93
Pennsylvanian	Kasimovian	306.90337	7090.80	1.59	-4.46
Pennsylvanian	Kasimovian	306.88865	7092.15	2.50	-3.38

Pennsylvanian	Kasimovian	306.87011	7093.85	1.46	-3.02
Pennsylvanian	Kasimovian	306.86847	7094.00	2.10	-3.38
Pennsylvanian	Kasimovian	306.83576	7097.00	2.04	-3.02
Pennsylvanian	Kasimovian	306.80359	7099.95	2.97	-0.29
Pennsylvanian	Kasimovian	306.78287	7101.85	1.89	-4.63
Pennsylvanian	Kasimovian	306.75888	7104.05	1.01	-5.36
Pennsylvanian	Kasimovian	306.7556	7104.35	2.18	-0.89
Pennsylvanian	Kasimovian	306.74415	7105.40	2.23	-3.80
Pennsylvanian	Kasimovian	306.64001	7114.95	1.95	-2.66
Pennsylvanian	Kasimovian	306.63946	7115.00	2.10	-2.59
Pennsylvanian	Kasimovian	306.63946	7115.00	2.15	-2.35
Pennsylvanian	Kasimovian	306.63728	7115.20	2.52	-1.57
Pennsylvanian	Kasimovian	306.63292	7115.60	2.17	-2.60
Pennsylvanian	Kasimovian	306.62201	7116.60	2.62	-2.01
Pennsylvanian	Kasimovian	306.60783	7117.90	3.02	-3.76
Pennsylvanian	Kasimovian	306.60129	7118.50	2.95	-3.31
Pennsylvanian	Kasimovian	306.5773	7120.70	2.73	-3.01
Pennsylvanian	Kasimovian	306.56858	7121.50	2.24	-2.70
Pennsylvanian	Kasimovian	306.5544	7122.80	2.14	-2.78
Pennsylvanian	Kasimovian	306.55276	7122.95	1.92	-2.70
Pennsylvanian	Kasimovian	306.54513	7123.65	2.04	-3.22
Pennsylvanian	Kasimovian	306.5195	7126.00	2.11	-4.57
Pennsylvanian	Kasimovian	306.48406	7129.25	2.14	-3.20
Pennsylvanian	Kasimovian	306.48297	7129.35	3.12	-3.29
Pennsylvanian	Kasimovian	306.47751	7129.85	3.01	-3.71
Pennsylvanian	Kasimovian	306.45134	7132.25	2.48	-2.76
Pennsylvanian	Kasimovian	306.44316	7133.00	2.90	-2.66
Pennsylvanian	Kasimovian	306.42789	7134.40	2.65	-3.89
Pennsylvanian	Kasimovian	306.42789	7134.40	2.65	-3.96
Pennsylvanian	Kasimovian	306.4159	7135.50	2.45	-2.43
Pennsylvanian	Kasimovian	306.41481	7135.60	2.63	-2.55

Pennsylvanian	Kasimovian	306.39736	7137.20	2.82	-0.44
Pennsylvanian	Kasimovian	306.38864	7138.00	2.90	-2.84
Pennsylvanian	Kasimovian	306.3701	7139.70	2.21	-3.08
Pennsylvanian	Kasimovian	306.3701	7139.70	1.75	-3.93
Pennsylvanian	Kasimovian	306.36737	7139.95	2.31	-1.92
Pennsylvanian	Kasimovian	306.31448	7144.80	3.19	-2.97
Pennsylvanian	Kasimovian	306.31339	7144.90	2.73	-2.81
Pennsylvanian	Kasimovian	306.31284	7144.95	3.29	-2.47
Pennsylvanian	Kasimovian	306.29158	7146.90	2.33	-3.54
Pennsylvanian	Kasimovian	306.28013	7147.95	2.97	-2.94
Pennsylvanian	Kasimovian	306.2774	7148.20	2.69	-2.27
Pennsylvanian	Kasimovian	306.27304	7148.60	2.31	-2.90
Pennsylvanian	Kasimovian	306.2654	7149.30	2.36	-3.17
Pennsylvanian	Kasimovian	306.26322	7149.50	1.87	-3.17
Pennsylvanian	Kasimovian	306.21415	7154.00	2.61	0.68
Pennsylvanian	Kasimovian	306.11764	7162.85	2.35	-3.39
Pennsylvanian	Kasimovian	306.09255	7165.15	2.18	-2.34
Pennsylvanian	Kasimovian	306.09255	7165.15	2.33	-2.61
Pennsylvanian	Kasimovian	306.06038	7168.10	3.29	-2.62
Pennsylvanian	Kasimovian	306.03039	7170.85	4.08	-2.80
Pennsylvanian	Kasimovian	306.0004	7173.60	3.69	-3.68
Pennsylvanian	Kasimovian	305.96932	7176.45	3.00	-3.19
Pennsylvanian	Kasimovian	305.9655	7176.80	2.76	-2.88
Pennsylvanian	Kasimovian	305.9655	7176.80	2.64	-3.12
Pennsylvanian	Kasimovian	305.96169	7177.15	1.63	-4.01
Pennsylvanian	Kasimovian	305.9546	7177.80	1.91	-3.15
Pennsylvanian	Kasimovian	305.9197	7181.00	2.36	-2.33
Pennsylvanian	Kasimovian	305.88917	7183.80	2.81	-3.77
Pennsylvanian	Kasimovian	305.87063	7185.50	3.02	-3.94
Pennsylvanian	Kasimovian	305.86354	7186.15	2.97	-2.43
Pennsylvanian	Kasimovian	305.85427	7187.00	2.88	-3.00

Pennsylvanian	Kasimovian	305.83955	7188.35	3.07	-2.77
Pennsylvanian	Kasimovian	305.80083	7191.90	2.27	-2.95
Pennsylvanian	Kasimovian	305.77575	7194.20	1.26	-4.73
Pennsylvanian	Kasimovian	305.73922	7197.55	1.29	-2.29
Pennsylvanian	Kasimovian	305.70486	7200.70	2.36	-3.28
Pennsylvanian	Kasimovian	305.67378	7203.55	3.65	-3.72
Pennsylvanian	Kasimovian	305.65743	7205.05	3.18	-2.31
Pennsylvanian	Kasimovian	305.65743	7205.05	2.76	-4.36
Pennsylvanian	Kasimovian	305.64052	7206.60	4.12	-3.38
Pennsylvanian	Kasimovian	305.6089	7209.50	3.73	-4.57
Pennsylvanian	Kasimovian	305.58381	7211.80	2.47	-3.05
Pennsylvanian	Kasimovian	305.58381	7211.80	2.61	-3.99
Pennsylvanian	Kasimovian	305.53747	7216.05	3.65	-3.82
Pennsylvanian	Kasimovian	305.52056	7217.60	3.34	-3.18
Pennsylvanian	Kasimovian	305.50802	7218.75	3.19	-3.76
Pennsylvanian	Kasimovian	305.48567	7220.80	3.46	-2.91
Pennsylvanian	Kasimovian	305.47258	7222.00	3.24	-1.90
Pennsylvanian	Kasimovian	305.46004	7223.15	2.75	-2.86
Pennsylvanian	Kasimovian	305.44368	7224.65	3.62	-3.51
Pennsylvanian	Kasimovian	305.42132	7226.70	1.47	-4.34
Pennsylvanian	Kasimovian	305.41805	7227.00	1.89	-3.65
Pennsylvanian	Kasimovian	305.41314	7227.45	3.13	-0.79
Pennsylvanian	Kasimovian	305.4126	7227.50	3.39	-0.25
Pennsylvanian	Kasimovian	305.4126	7227.50	3.13	-0.79
Pennsylvanian	Kasimovian	305.4126	7227.50	3.28	-0.12
Pennsylvanian	Kasimovian	305.4006	7228.60	2.92	-1.78
Pennsylvanian	Kasimovian	305.39624	7229.00	2.72	-4.23
Pennsylvanian	Kasimovian	305.35425	7232.85	3.75	-2.94
Pennsylvanian	Kasimovian	305.35262	7233.00	3.07	-1.79
Pennsylvanian	Kasimovian	305.33244	7234.85	3.32	-3.81
Pennsylvanian	Kasimovian	305.31663	7236.30	1.51	-4.33

Pennsylvanian	Kasimovian	305.30682	7237.20	3.01	-2.45
Pennsylvanian	Kasimovian	305.29809	7238.00	1.89	-3.48
Pennsylvanian	Kasimovian	305.29591	7238.20	2.22	-3.01
Pennsylvanian	Kasimovian	305.26319	7241.20	2.50	-3.04
Pennsylvanian	Kasimovian	305.22939	7244.30	3.11	-2.93
Pennsylvanian	Kasimovian	305.2283	7244.40	3.25	-3.45
Pennsylvanian	Kasimovian	305.19852	7247.13	1.55	-3.12
Pennsylvanian	Kasimovian	305.16832	7249.90	1.02	-5.77
Pennsylvanian	Kasimovian	305.1585	7250.80	2.17	-2.60
Pennsylvanian	Kasimovian	305.12906	7253.50	2.48	-1.96
Pennsylvanian	Kasimovian	305.10288	7255.90	1.69	-3.77
Pennsylvanian	Kasimovian	305.06962	7258.95	2.78	-5.38
Pennsylvanian	Kasimovian	305.02982	7262.60	1.90	-5.89
Pennsylvanian	Kasimovian	305.01346	7264.10	2.52	-5.64
Pennsylvanian	Kasimovian	304.98456	7266.75	2.80	-4.79
Pennsylvanian	Kasimovian	304.96929	7268.15	2.64	-4.19
Pennsylvanian	Kasimovian	304.96602	7268.45	2.39	-3.37
Pennsylvanian	Kasimovian	304.96439	7268.60	2.28	-2.72
Pennsylvanian	Kasimovian	304.92458	7272.25	1.29	-1.54
Pennsylvanian	Kasimovian	304.80735	7283.00	2.26	-5.08
Pennsylvanian	Kasimovian	304.80517	7283.20	1.63	-4.34
Pennsylvanian	Kasimovian	304.78554	7285.00	1.84	-1.80
Pennsylvanian	Kasimovian	304.77027	7286.40	2.43	-2.79
Pennsylvanian	Kasimovian	304.76536	7286.85	2.22	-2.11
Pennsylvanian	Kasimovian	304.75173	7288.10	2.05	-5.76
Pennsylvanian	Kasimovian	304.71901	7291.10	1.66	-2.71
Pennsylvanian	Kasimovian	304.68848	7293.90	2.52	-4.02
Pennsylvanian	Kasimovian	304.67975	7294.70	0.69	-5.80
Pennsylvanian	Kasimovian	304.67975	7294.70	2.79	-3.26
Pennsylvanian	Kasimovian	304.62904	7299.35	1.91	-1.57
Pennsylvanian	Kasimovian	304.56143	7305.55	1.15	-8.03

Pennsylvanian	Kasimovian	304.54289	7307.25	2.83	-2.94
Pennsylvanian	Kasimovian	304.51617	7309.70	1.94	-5.18
Pennsylvanian	Kasimovian	304.45074	7315.70	1.21	-3.93
Pennsylvanian	Kasimovian	304.44965	7315.80	1.07	-5.11
Pennsylvanian	Kasimovian	304.43111	7317.50	2.17	-2.97
Pennsylvanian	Kasimovian	304.38422	7321.80	1.91	-3.29
Pennsylvanian	Kasimovian	304.38149	7322.05	2.05	-4.61
Pennsylvanian	Kasimovian	304.37113	7323.00	2.19	-2.13
Pennsylvanian	Kasimovian	304.33405	7326.40	2.29	-5.31
Pennsylvanian	Kasimovian	304.32903	7326.86	2.85	-4.02
Pennsylvanian	Kasimovian	304.31878	7327.80	2.60	-5.07
Pennsylvanian	Kasimovian	304.28716	7330.70	2.86	-4.40
Pennsylvanian	Kasimovian	304.26753	7332.50	2.71	-4.84
Pennsylvanian	Kasimovian	304.23645	7335.35	2.76	-3.58
Pennsylvanian	Kasimovian	304.21518	7337.30	2.70	-2.55
Pennsylvanian	Kasimovian	304.16829	7341.60	0.33	-3.62
Pennsylvanian	Kasimovian	304.13666	7344.50	0.99	-3.05
Pennsylvanian	Kasimovian	304.12194	7345.85	2.08	-2.23
Pennsylvanian	Kasimovian	304.08813	7348.95	2.49	-0.98
Pennsylvanian	Kasimovian	304.05793	7351.72	2.33	0.69
Pennsylvanian	Kasimovian	304.02379	7354.85	1.48	-6.99
Pennsylvanian	Kasimovian	303.9938	7357.60	1.53	-5.81
Pennsylvanian	Kasimovian	303.99326	7357.65	2.58	-4.43
Pennsylvanian	Kasimovian	303.97853	7359.00	2.50	-3.90
Pennsylvanian	Kasimovian	303.96872	7359.90	1.98	-5.70
Pennsylvanian	Kasimovian	303.95454	7361.20	1.95	-3.29
Pennsylvanian	Kasimovian	303.95214	7361.42	0.72	-7.40
Pennsylvanian	Kasimovian	303.94691	7361.90	1.35	-5.68
Pennsylvanian	Kasimovian	303.92728	7363.70	0.87	-6.02
Pennsylvanian	Kasimovian	303.86403	7369.50	2.76	-5.40
Pennsylvanian	Kasimovian	303.86239	7369.65	2.25	-5.73

Pennsylvanian	Kasimovian	303.82422	7373.15	1.65	-5.11
Pennsylvanian	Kasimovian	303.82368	7373.20	1.00	-6.22
Pennsylvanian	Kasimovian	303.81495	7374.00	2.17	-2.36
Pennsylvanian	Kasimovian	303.8095	7374.50	2.51	-6.00
Pennsylvanian	Kasimovian	303.8035	7375.05	2.87	-3.03
Pennsylvanian	Kasimovian	303.79532	7375.80	2.85	-4.79
Pennsylvanian	Kasimovian	303.77842	7377.35	1.69	-6.64
Pennsylvanian	Kasimovian	303.77133	7378.00	2.76	-2.32
Pennsylvanian	Kasimovian	303.76642	7378.45	2.86	-2.42
Pennsylvanian	Kasimovian	303.73861	7381.00	1.94	-6.59
Pennsylvanian	Kasimovian	303.73861	7381.00	1.76	-7.51
Pennsylvanian	Kasimovian	303.73316	7381.50	2.28	-7.09
Pennsylvanian	Kasimovian	303.72117	7382.60	2.52	-4.03
Pennsylvanian	Kasimovian	303.71026	7383.60	2.52	-3.33
Pennsylvanian	Kasimovian	303.70808	7383.80	2.33	-2.24
Pennsylvanian	Kasimovian	303.69826	7384.70	2.65	-3.01
Pennsylvanian	Kasimovian	303.68572	7385.85	2.43	-6.29
Pennsylvanian	Kasimovian	303.67209	7387.10	2.46	-6.85
Pennsylvanian	Kasimovian	303.6541	7388.75	2.53	-3.86
Pennsylvanian	Kasimovian	303.64592	7389.50	1.95	-1.48
Pennsylvanian	Kasimovian	303.63065	7390.90	2.36	-3.53
Pennsylvanian	Kasimovian	303.6132	7392.50	1.71	-4.16
Pennsylvanian	Kasimovian	303.59902	7393.80	2.07	-3.42
Pennsylvanian	Kasimovian	303.5903	7394.60	1.72	-6.08
Pennsylvanian	Kasimovian	303.58812	7394.80	1.38	-6.08
Pennsylvanian	Kasimovian	303.58158	7395.40	2.24	-3.73
Pennsylvanian	Kasimovian	303.58103	7395.45	1.86	-3.98
Pennsylvanian	Kasimovian	303.56903	7396.55	1.35	-3.49
Pennsylvanian	Kasimovian	303.53795	7399.40	1.25	-2.80
Pennsylvanian	Kasimovian	303.5325	7399.90	0.34	-6.16
Pennsylvanian	Kasimovian	303.50524	7402.40	1.49	-0.39

Pennsylvanian	Kasimovian	303.45507	7407.00	1.40	-3.45
Pennsylvanian	Kasimovian	303.4518	7407.30	1.28	-3.02
Pennsylvanian	Kasimovian	303.44744	7407.70	1.48	-2.20
Pennsylvanian	Kasimovian	303.43544	7408.80	1.82	-3.56
Pennsylvanian	Kasimovian	303.42563	7409.70	1.70	-2.60
Pennsylvanian	Kasimovian	303.4169	7410.50	1.79	-3.54
Pennsylvanian	Kasimovian	303.41	7412.05	0.41	-7.60
Pennsylvanian	Gzhelian	303.4	7413.60	0.11	-8.24
Pennsylvanian	Gzhelian	303.26268	7414.80	0.76	-5.73
Pennsylvanian	Gzhelian	303.06814	7416.50	1.78	-5.29
Pennsylvanian	Gzhelian	303.0567	7416.60	2.22	-5.22
Pennsylvanian	Gzhelian	302.72484	7419.50	1.53	-4.89
Pennsylvanian	Gzhelian	302.69051	7419.80	1.82	-4.56
Pennsylvanian	Gzhelian	302.59896	7420.60	1.14	-5.91
Pennsylvanian	Gzhelian	302.55319	7421.00	0.44	-7.34
Pennsylvanian	Gzhelian	302.50741	7421.40	1.33	-6.39
Pennsylvanian	Gzhelian	302.16411	7424.40	1.97	-2.24
Pennsylvanian	Gzhelian	301.88375	7426.85	1.83	-6.25
Pennsylvanian	Gzhelian	301.71782	7428.30	1.52	-6.86
Pennsylvanian	Gzhelian	301.53472	7429.90	2.18	-0.25
Pennsylvanian	Gzhelian	301.37108	7431.33	2.80	0.55
Pennsylvanian	Gzhelian	301.28296	7432.10	0.45	-6.65
Pennsylvanian	Gzhelian	301.26008	7432.30	1.43	-6.62
Pennsylvanian	Gzhelian	301.10559	7433.65	1.84	-5.87
Pennsylvanian	Gzhelian	300.871	7435.70	2.25	-5.40
Pennsylvanian	Gzhelian	300.83667	7436.00	2.93	-4.66
Pennsylvanian	Gzhelian	300.68791	7437.30	2.26	-3.73
Pennsylvanian	Gzhelian	300.61925	7437.90	3.63	-4.98
Pennsylvanian	Gzhelian	300.53914	7438.60	2.52	-5.31
Pennsylvanian	Gzhelian	300.32172	7440.50	2.25	-3.23
Pennsylvanian	Gzhelian	300.32057	7440.51	2.48	-2.80

Pennsylvanian	Gzhelian	300.31027	7440.60	2.16	-4.34
Pennsylvanian	Gzhelian	300.1844	7441.70	2.95	-4.26
Pennsylvanian	Gzhelian	299.98986	7443.40	2.07	-5.85
Pennsylvanian	Gzhelian	299.97841	7443.50	2.40	-4.80
Pennsylvanian	Gzhelian	299.78388	7445.20	2.32	-4.24
Pennsylvanian	Gzhelian	299.76671	7445.35	1.90	-4.97
Pennsylvanian	Gzhelian	299.72666	7445.70	3.88	-3.00
Pennsylvanian	Gzhelian	299.29181	7449.50	3.53	-6.06
Pennsylvanian	Gzhelian	299.22315	7450.10	3.72	-5.30
Pennsylvanian	Gzhelian	299.14304	7450.80	3.03	-2.13
Pennsylvanian	Gzhelian	299.00572	7452.00	2.40	-4.40
Pennsylvanian	Gzhelian	299.01	7452.05	2.52	-4.09
Permian	Asselian	299	7452.50	3.04	-1.51

<u>stage</u>	<u>age base</u>	<u>my</u>	<u>meters</u>	<u>my/m</u>	
stage 5	510	3.5	292	0.011986301	0.011986301
Drumian	506.5	3.5	771.5	0.004536617	0.004536617
Guzhangian	503	4	622.6	0.006424671	0.006424671
Paibian	499	3	272.7	0.0110011	0.0110011
stage 9, 10	496	7.7	288.1	0.026726831	0.026726831
(stage 10)	492	3.7	ombined with 9		
Tremadocian	488.3	9.7	329.0664	0.029477333	0.029477333
Floian	478.6	6.8	339.5472	0.020026671	0.020026671
Dapingian	471.8	3.7	264.1696	0.014006154	0.014006154
Darriwilian	468.1	7.2	131.5	0.054752852	0.054752852
Sandbian	460.9	5.1	123.5	0.041295547	0.041295547
Katian	455.8	10.2	220.6	0.046237534	0.046237534
Hirnantian	445.6	1.9	62.2	0.030546624	0.030546624
Rhuddanian	443.7	4.7	missing		
Aeronian	439	3	missing		
Telychian	436	6	missing		
Telychian	430	1.8	45.916	0.039202021	0.039202021
Sheinwoodian	428.2	2	43.8912	0.045567221	0.045567221
Homerian	426.2	3.3	117.9576	0.027976154	0.027976154
Gorstian	422.9	1.6	3.3528	0.477213076	0.477213076
Ludfordian	421.3	2.6	114.7192	0.022664035	0.022664035
Pridolian	418.7	2.7	162.4584	0.016619639	0.016619639
Lochkovian	416	4.8	330.5312	0.014522078	0.014522078
Pragian	411.2	4.2	271	0.015498155	0.015498155
Emsian	407	9.5	122	0.077868852	0.077868852
Eifelian	397.5	5.7	241.888	0.023564625	0.023564625
Givetian	391.8	6.5	189.476	0.034305136	0.034305136
Frasnian	385.3	10.8	275.1224	0.039255255	0.039255255
Famennian	374.5	15.3	309.00	0.049514563	0.049514563
Tournaisian	359.2	13.9	497.00	0.027967807	0.027967807
Visean	345.3	8.3	106.64	0.077831958	0.077831958
Visean	337	8.7	missing		
Serpukhovian	328.3	7.3	missing		
Serpukhovian	321	2.9	13.00	0.223076923	0.223076923
Bashkirian	318.1	6.4	146.70	0.043626449	0.043626449
Moscovian	311.7	4.5	132.40	0.033987915	0.033987915

Kasimovian	307.2	3.8	348.45	0.010905438	0.010905438
Gzhelian	303.4	4.4	38.45	0.11443433	0.11443433
Asselian	299				

TABLE DR1. Stages and Zones of each Formation in the Paleozoic (Middle Cambrian-Lower Permian) composite (see Figure 2).

<u>Formation/Member</u>	<u>Stage/Series</u>	<u>Zone(s)</u>	<u>Formation/Member</u>	<u>Stage/Series</u>
Cambrian			Devonian	
Pioche (Tatow Mbr)	Delamaran	<i>Plagiura/Albertella</i>	Roberts Mtns (part)	Lochkovian
Howell	Delamaran	<i>Glossopleura</i>	Windmill	Lochkovian/Pragian
Chisholm	Delamaran/Marjuman	<i>Glossopleura/Ehmaniella</i>	Rabbit Hill	Pragian
Dome	Marjuman	<i>Ehmaniella</i>	McColley Cyn	Pragian/Emsian
Whirlwind	Marjuman	<i>Ehmaniella</i>	Denay (part)	Eifelian
Swasey	Marjuman	<i>Ehmaniella</i>	Denay (part)	Givetian
Wheeler	Marjuman	<i>Bolaspidella</i>	Devils Gate	Frasnian/Famennian
Marjum	Marjuman	<i>Bolaspidella</i>	West Range	Famennian
Weeks	Marjuman	<i>Cedaria/Crepicephalus</i>	<i>Pilot (clastic)</i>	Famennian
Big Horse	Marjuman/Stepteoan	<i>Cedaria/Crepicephalus</i>	Mississippian	
Johns Wash	Stepteoan	<i>Aphelaspis</i>	<i>Pilot (clastic)</i>	Kinderhookian
Corset Spring	Stepteoan	<i>Dunderbergia/Elvinia</i>	Dawn	Kinderhookian
Whipple Cave (part)	Stepteoan/Sunwaptan	<i>Elvinia-Saukia</i>	Anchor	Kinderhookian/Osagean
Ordovician			Pennsylvanian	
Whipple Cave (part)	Ibexian	<i>proavus</i>	Bullion	Osagean
House	Ibexian	<i>intermedius-manitouensis</i>	Yellowpine	Meramecian
Parker Spring	Ibexian	low diversity- <i>deltatus/costatus</i>	Battleship Wash	Meramecian/Chesterian
Shingle	Ibexian/Whiterockian	<i>deltatus/costatus-laevis</i>	<i>Indian Sprg (clastic)</i>	Chesterian
Antelope Valley	Whiterockian	<i>laevis-sweeti</i>	Bird Spring (part)	Chesterian
Copenhagen	Whiterock/Mohawkian	<i>sweeti-tenuis</i>	Pennsylvanian	
<i>Eureka (clastic)</i>	Mohawkian/Cincinnati	nondiagnostic	Bird Spring (part)	Morrowan
Hanson Creek (part)	Cincinnati	<i>ornatus-persculptus</i>	Bird Spring (part)	Atokan
Silurian			Bird Spring (part)	Desmoinesian
Hanson Creek (part)	Llandoveryan (part)	<i>nathani-?</i>	Bird Spring (part)	Missourian
Roberts Mtns (part)	Llandoveryan (Telychian)	<i>celloni-amorphognathoides</i>	Bird Spring (part)	Virgillian
Roberts Mtns (part)	Wenlockian	<i>ranuliformis-crassa</i>		
Roberts Mtns (part)	Ludlovian/Pridolian	<i>ploekensis-detorta</i>		

Zone(s)*

conodont

hesperius-eurekaensis

eurekaensis-pesavis

sulcatus

kindlei-patula

costatus-kockelianus

ensensis-norrisi

falsiovalis-triangularis

crepida-marginifera

margin.-expansa

conodont

sulcata-sandbergi

lwr crenulata/isosticha

isosticha/lwr typicus

upper typicus-lower texanus

homopuncataus/cavusgnathus

cavusgnath.-naviculus

naviculus-lwr muricatus

upper muricatus

conodont/foraminifera

noduliferous-klapperi

Profusulinella-Fusulinella

Fusulina

Triticites

Triticites