

**The Paleogene California River:
Evidence of Mojave-Uinta paleodrainage from U-Pb ages of detrital zircons**
Davis, Dickinson, Gehrels, Spencer, Lawton, and Carroll

Data Repository

Includes:

Figs. DR1-DR7

Tables DR1 and DR2

References

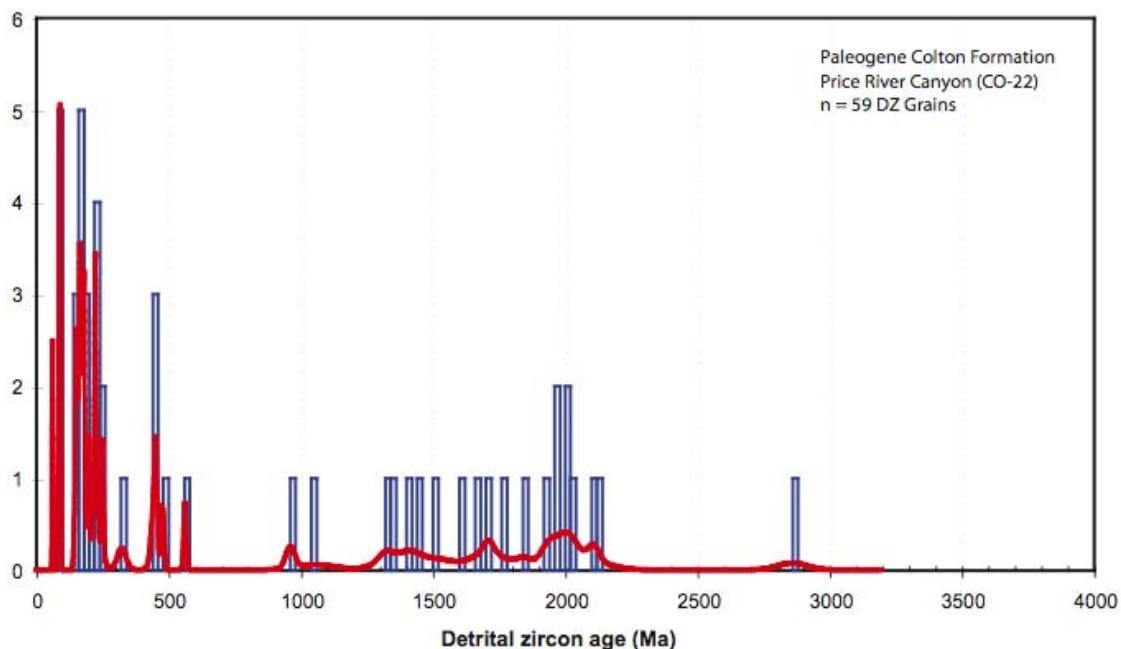


Figure DR1. Combined histogram and probability-density plot of sample from the Colton Formation in Price River Canyon (Locality 1 on Figure 1 and in Table DR1).

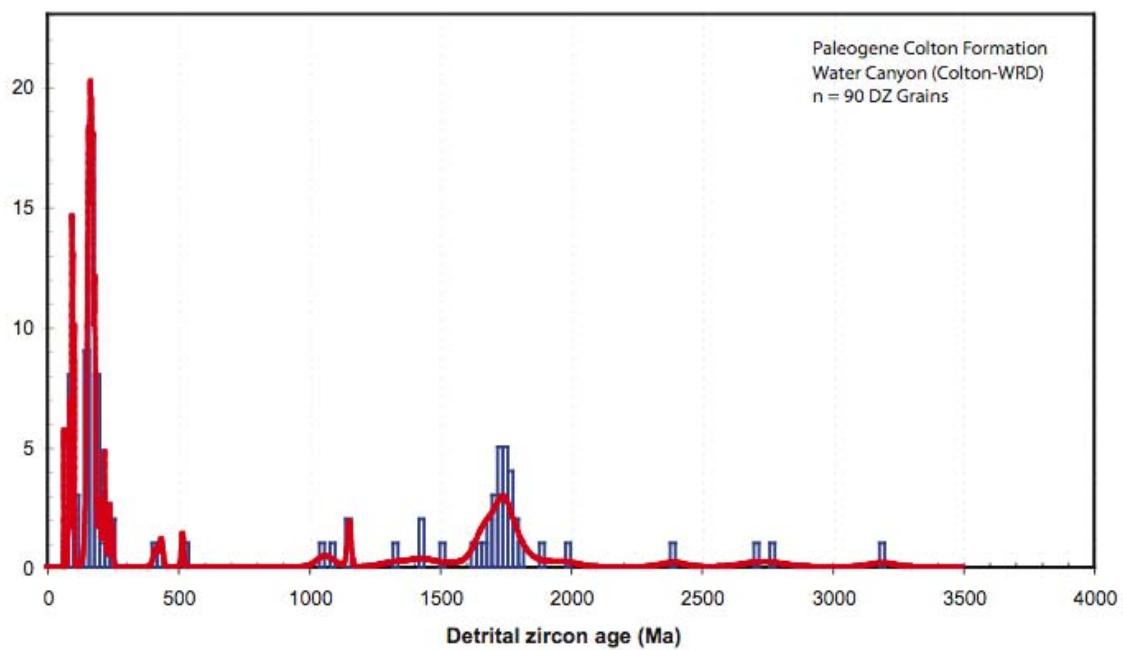


Figure DR2. Combined histogram and probability-density plot of sample from the Colton Formation in Water Canyon (Locality 2 on Figure 1 and in Table DR1).

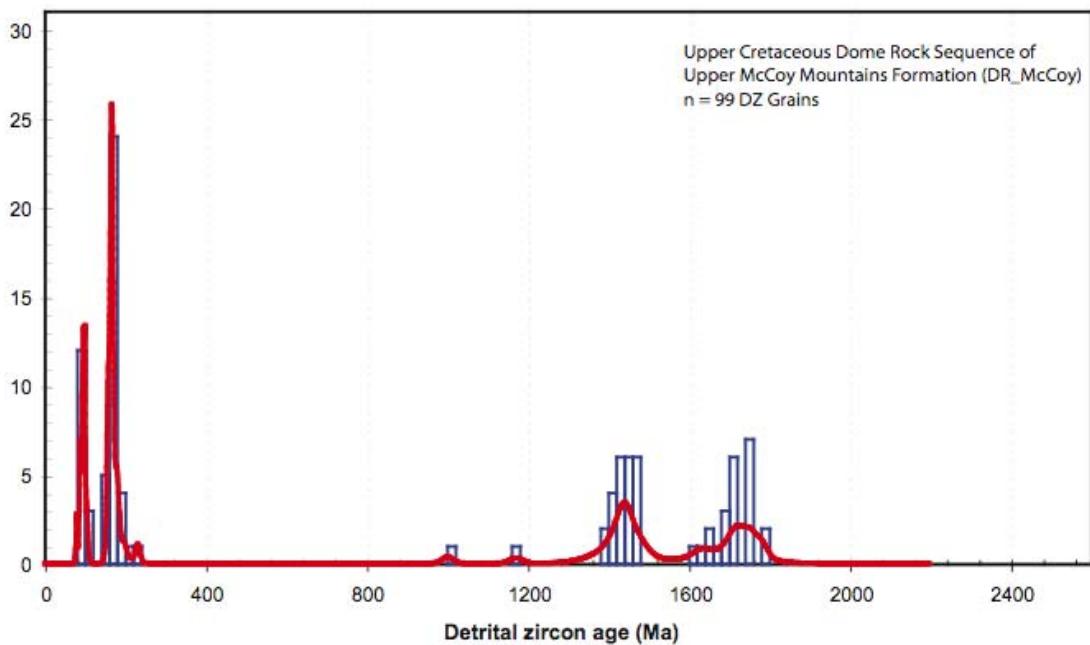


Figure DR3. Combined histogram and probability-density plot of sample from the Upper McCoy Mountains Formation in the Dome Rock Mountains (Locality 3 on Figure 1 and in Table DR1).

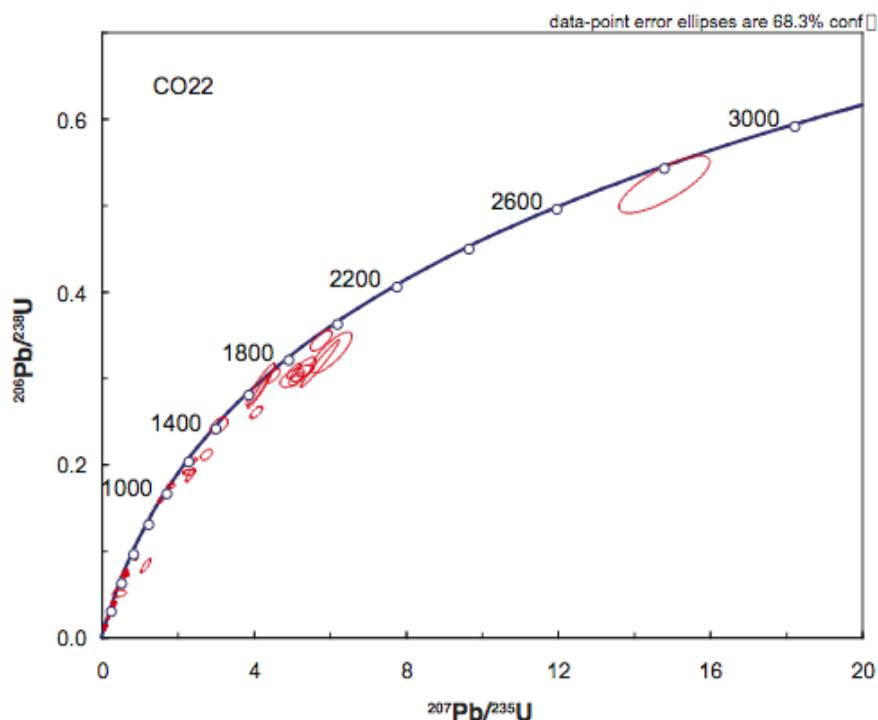


Figure DR4. Concordia plot of sample from the Colton Formation in Price River Canyon (Locality 1 on Figure 1 and in Table DR1).

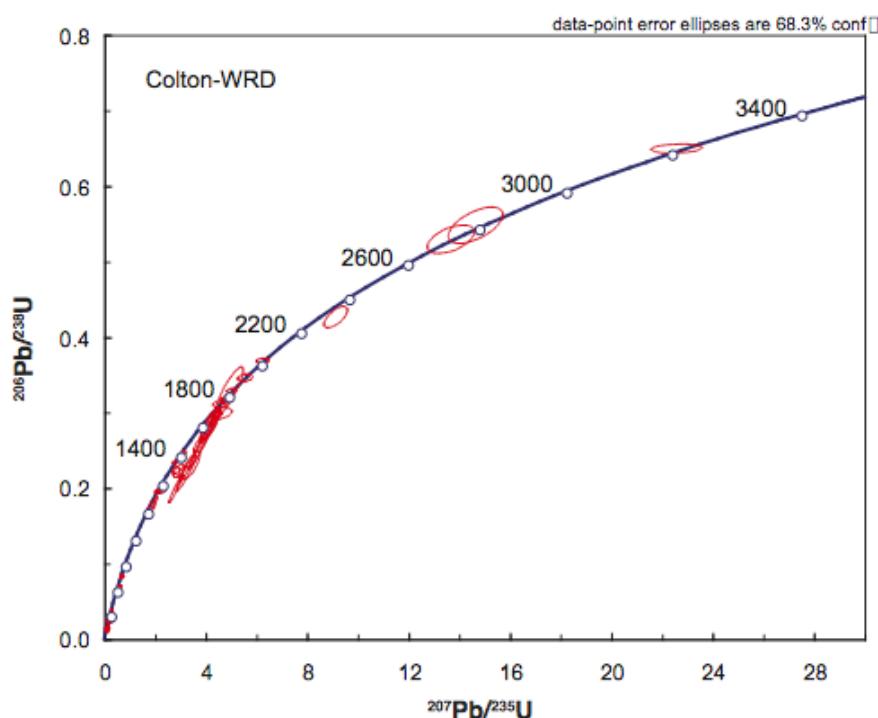


Figure DR5. Concordia plot of sample from the Colton Formation in Water Canyon (Locality 2 on Figure 1 and in Table DR1).

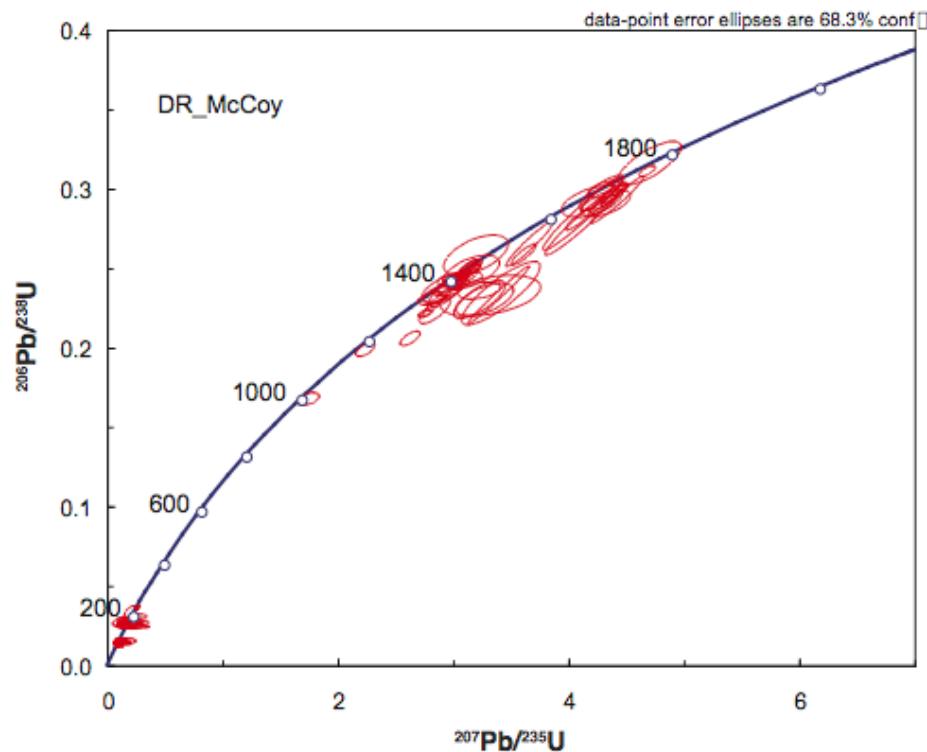


Figure DR6. Concordia plot of sample from the Upper McCoy Mountains Formation in the Dome Rock Mountains (Locality 3 on Figure 1 and in Table DR1).

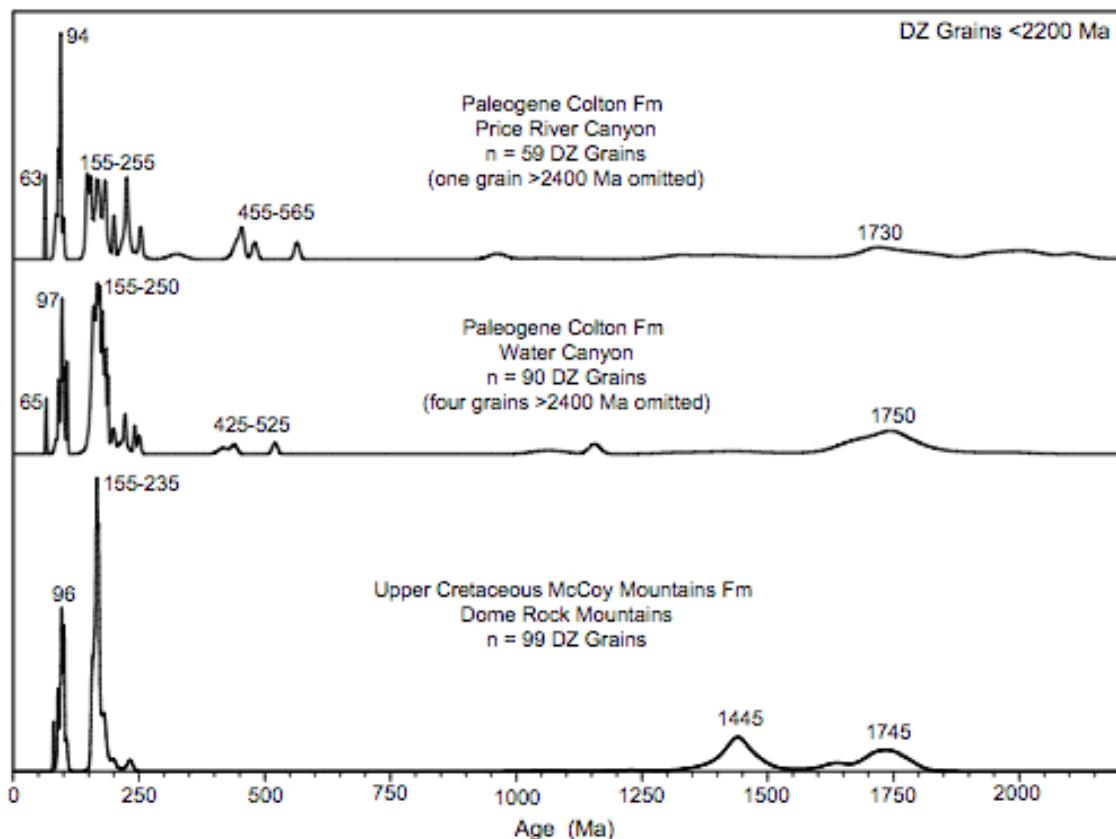


Figure DR7. Normalized U-Pb age spectra of detrital zircons from the Paleogene Colton Formation and several Mesozoic units present in the Laramide Foreland (see Figure 1 for sample locations and Dickinson and Gehrels (2008a, b, 2009) for details).

Table DR1. Sample locations and key references

Colton Formation	Locality 1 (CO-22) “Section 1” (Type Section)	Roadcut along U.S. 6 at the upper end of Price River Canyon: N 39°50.746' W 111°00.167'	(Peterson, 1976)
	Locality 2 (Colton-WRD)	Water Canyon along Bruin Point Road above Sunnyside: N 39°37.132' W 110°21.511'W	(Ryder et al., 1976)
Upper McCoy Mountains Formation (Siltstone Member)	Locality 3 (DR_McCoy) (2 samples combined)	Southeastern Dome Rock Mountains south of Quartzsite, AZ: N 33°29.575' W 114°15.931' N 33°29.394' W 114°15.963'	(Spencer et al., in review)

Table DR2. Geochronological analyses of U-Pb in zircons using LA-ICPMS.

Analysis	U (ppm)	Isotope Ratios						Err. corr	Apparent Ages (Ma)						Best age (Ma)	\pm (Ma)		
		$^{206}\text{Pb} / ^{204}\text{Pb}$	U/ Th	$^{206}\text{Pb}^* / ^{207}\text{Pb}^*$	\pm (%)	$^{207}\text{Pb}^* / ^{235}\text{U}^*$	\pm (%)		$^{206}\text{Pb}^* / ^{238}\text{U}$	\pm (%)	$^{206}\text{Pb}^* / ^{238}\text{U}^*$	\pm (Ma)	$^{207}\text{Pb}^* / ^{235}\text{U}$	\pm (Ma)	$^{206}\text{Pb}^* / ^{207}\text{Pb}^*$	\pm (Ma)		
CO22-35	949	4557	2.1	19.6780	4.7	0.0690	5.2	0.0099	2.1	0.40	63.2	1.3	67.8	3.4	232.6	109.1	63.2	1.3
CO22-20	194	1287	1.4	19.3923	12.8	0.0942	13.5	0.0132	4.2	0.31	84.8	3.5	91.4	11.8	266.2	295.1	84.8	3.5
CO22-46	105	1329	1.3	21.7646	15.6	0.0880	15.9	0.0139	3.5	0.22	88.9	3.0	85.6	13.1	-5.2	377.4	88.9	3.0
CO22-13	473	4143	2.3	18.8477	7.1	0.1032	7.4	0.0141	2.0	0.27	90.3	1.8	99.7	7.0	331.2	161.1	90.3	1.8
CO22-16	213	2196	2.0	18.2755	5.1	0.1099	5.5	0.0146	2.0	0.36	93.2	1.8	105.8	5.5	400.7	114.3	93.2	1.8
CO22-48	1239	4740	3.7	20.5607	3.6	0.0989	4.1	0.0147	2.0	0.48	94.4	1.8	95.7	3.8	130.3	85.0	94.4	1.8
CO22-61	533	3852	1.4	20.9751	5.5	0.0975	5.9	0.0148	2.0	0.34	95.0	1.9	94.5	5.3	83.2	131.2	95.0	1.9
CO22-68	933	4611	2.0	19.9378	2.3	0.1077	3.2	0.0156	2.3	0.71	99.6	2.3	103.9	3.2	202.2	52.3	99.6	2.3
CO22-69	810	2832	1.4	19.8979	3.3	0.1588	5.1	0.0229	3.9	0.76	146.1	5.6	149.6	7.1	206.9	76.5	146.1	5.6
CO22-64	960	2853	1.7	19.8539	3.9	0.1595	4.3	0.0230	1.7	0.41	146.4	2.5	150.2	6.0	212.0	90.6	146.4	2.5
CO22-2	668	4845	1.6	20.7826	3.5	0.1568	4.6	0.0236	2.9	0.64	150.6	4.3	147.9	6.3	105.0	83.1	150.6	4.3
CO22-70	475	2625	1.7	17.7266	6.4	0.1838	7.0	0.0236	3.0	0.42	150.6	4.4	171.3	11.1	468.6	141.0	150.6	4.4
CO22-5	297	4737	1.1	21.2089	4.5	0.1573	4.8	0.0242	1.7	0.35	154.1	2.5	148.4	6.7	56.8	107.9	154.1	2.5
CO22-45	315	5463	1.0	20.1081	4.2	0.1718	5.1	0.0251	2.9	0.57	159.5	4.6	161.0	7.6	182.4	98.0	159.5	4.6
CO22-56	480	11514	1.8	20.0011	1.9	0.1782	3.1	0.0258	2.5	0.81	164.5	4.1	166.5	4.8	194.8	43.1	164.5	4.1
CO22-8	345	4653	1.7	20.9696	4.2	0.1716	4.7	0.0261	2.1	0.44	166.1	3.4	160.8	7.0	83.8	100.6	166.1	3.4
CO22-19	98	1533	2.1	18.1033	9.3	0.2041	9.5	0.0268	1.8	0.19	170.4	3.1	188.6	16.3	421.9	207.8	170.4	3.1
CO22-57	216	5010	2.3	20.4910	5.8	0.1803	6.7	0.0268	3.3	0.50	170.5	5.6	168.3	10.3	138.3	135.7	170.5	5.6
CO22-36	113	2424	1.4	20.1489	10.7	0.1898	11.1	0.0277	2.9	0.26	176.4	5.0	176.5	18.0	177.7	251.2	176.4	5.0
CO22-31	173	6405	1.9	18.1518	6.2	0.2154	6.4	0.0284	1.9	0.29	180.2	3.4	198.1	11.6	415.9	137.9	180.2	3.4
CO22-44	140	2076	1.7	20.9378	9.0	0.1906	9.1	0.0289	1.2	0.14	184.0	2.2	177.2	14.8	87.4	214.3	184.0	2.2
CO22-40	383	4152	1.0	19.4622	2.6	0.2087	4.1	0.0295	3.2	0.78	187.2	5.9	192.5	7.2	258.0	59.0	187.2	5.9
CO22-33	97	4008	4.3	19.5704	12.3	0.2227	12.3	0.0316	1.5	0.12	200.6	2.9	204.2	22.8	245.2	283.2	200.6	2.9
CO22-4	396	14925	3.4	19.5639	3.1	0.2459	5.8	0.0349	5.0	0.85	221.1	10.8	223.3	11.7	246.0	71.6	221.1	10.8
CO22-23	657	30585	3.1	17.2365	3.9	0.2798	5.1	0.0350	3.3	0.65	221.6	7.1	250.5	11.2	530.4	84.6	221.6	7.1
CO22-29	1148	4740	3.8	17.3399	3.3	0.2828	3.5	0.0356	1.0	0.29	225.3	2.2	252.9	7.8	517.2	73.2	225.3	2.2
CO22-52	685	15777	2.7	19.5774	3.8	0.2530	4.4	0.0359	2.2	0.50	227.5	4.9	229.0	9.0	244.4	87.1	227.5	4.9
CO22-25	191	2916	1.7	16.5692	4.3	0.3191	7.7	0.0383	6.4	0.83	242.6	15.2	281.2	18.9	616.2	93.1	242.6	15.2
CO22-49	353	6591	2.3	19.9581	6.0	0.2775	6.1	0.0402	1.3	0.21	253.9	3.2	248.7	13.5	199.8	139.2	253.9	3.2
CO22-53	208	11121	2.0	16.0282	26.9	0.4452	27.5	0.0518	5.3	0.19	325.3	16.7	373.9	86.1	687.5	584.9	325.3	16.7
CO22-38	289	9648	3.4	17.1026	4.1	0.5784	4.4	0.0718	1.8	0.40	446.7	7.6	463.5	16.6	547.4	89.2	446.7	7.6
CO22-59	278	13239	1.4	18.0750	3.3	0.5474	4.4	0.0718	3.0	0.68	446.8	12.9	443.3	15.8	425.4	72.6	446.8	12.9
CO22-12	135	4041	0.7	15.1922	2.8	0.6639	3.0	0.0732	1.0	0.34	455.1	4.4	517.0	12.0	800.7	58.4	455.1	4.4
CO22-42	118	5769	2.2	16.9179	3.8	0.6301	4.0	0.0773	1.2	0.30	480.1	5.6	496.2	15.7	571.1	83.0	480.1	5.6
CO22-17	320	17769	3.8	14.4849	2.5	0.8716	2.7	0.0916	1.0	0.37	564.8	5.4	636.4	12.7	899.8	51.2	564.8	5.4
CO22-7	57	10851	4.4	14.1562	2.7	1.5681	3.3	0.1610	1.9	0.58	962.3	17.0	957.7	20.4	947.0	55.1	962.3	17.0
CO22-51	30	4548	1.8	13.3990	3.5	1.8124	3.7	0.1761	1.0	0.28	1045.8	9.8	1050.0	24.2	1058.6	71.5	1058.6	71.5
CO22-41	265	32895	7.3	11.7112	1.5	2.4133	1.8	0.2050	1.0	0.55	1202.0	11.0	1246.6	13.1	1324.3	29.7	1324.3	29.7
CO22-28	71	8055	3.4	11.5435	4.3	2.2889	4.5	0.1916	1.0	0.23	1130.2	10.6	1208.9	31.5	1352.2	83.6	1352.2	83.6
CO22-26	221	19461	6.3	11.2011	1.9	2.3196	3.3	0.1884	2.7	0.82	1112.9	27.8	1218.3	23.6	1410.1	36.8	1410.1	36.8
CO22-58	94	26445	3.7	11.0259	4.3	3.0745	4.9	0.2459	2.4	0.49	1417.1	30.8	1426.3	37.8	1440.2	81.8	1440.2	81.8

Analysis	U (ppm)	Isotope Ratios									Apparent Ages (Ma)							
		$^{206}\text{Pb}/^{204}\text{Pb}$	U/ Th	$^{206}\text{Pb}^*/^{207}\text{Pb}^*$	\pm (%)	$^{207}\text{Pb}^*/^{235}\text{U}^*$	\pm (%)	$^{206}\text{Pb}^*/^{238}\text{U}$	\pm (%)	Err. corr	$^{206}\text{Pb}^*/^{238}\text{U}^*$	\pm (Ma)	$^{207}\text{Pb}^*/^{235}\text{U}$	\pm (Ma)	$^{206}\text{Pb}^*/^{20}$ $^{7}\text{Pb}^*$	\pm (Ma)	Best age (Ma)	\pm (Ma)
CO22-32	52	12192	5.0	10.6540	3.2	2.7442	3.7	0.2120	1.9	0.52	1239.7	21.8	1340.5	27.5	1505.3	59.6	1505.3	59.6
CO22-39	286	12675	5.8	10.0458	3.8	1.1442	7.3	0.0834	6.2	0.85	516.2	30.6	774.5	39.4	1615.6	71.4	1615.6	71.4
CO22-54	50	16305	1.4	9.7076	2.0	4.1631	5.9	0.2931	5.5	0.94	1657.1	80.7	1666.8	48.2	1679.1	37.4	1679.1	37.4
CO22-3	178	13869	1.2	9.5304	1.2	4.1269	4.7	0.2853	4.5	0.97	1617.8	64.7	1659.6	38.1	1713.0	21.2	1713.0	21.2
CO22-63	719	19137	1.8	9.4114	2.0	3.5249	2.3	0.2406	1.1	0.46	1389.8	13.4	1532.8	18.2	1736.1	37.4	1736.1	37.4
CO22-65	168	14832	1.0	9.3981	2.5	4.0300	4.5	0.2747	3.7	0.82	1564.6	51.1	1640.3	36.4	1738.7	46.4	1738.7	46.4
CO22-67	192	26874	1.7	9.3686	2.2	4.0615	2.7	0.2760	1.6	0.58	1571.0	22.3	1646.6	22.4	1744.5	40.9	1744.5	40.9
CO22-50	91	36681	1.0	9.2829	1.9	4.5039	2.6	0.3032	1.8	0.69	1707.3	26.4	1731.7	21.3	1761.3	34.2	1761.3	34.2
CO22-66	444	36174	1.9	9.0473	1.7	4.3628	2.0	0.2863	1.1	0.54	1622.9	15.5	1705.3	16.6	1808.1	30.9	1808.1	30.9
CO22-18	361	47022	1.5	8.8709	1.8	4.0560	2.5	0.2610	1.7	0.70	1494.7	23.1	1645.5	20.2	1843.8	32.0	1843.8	32.0
CO22-34	49	5229	3.7	8.4372	1.5	5.0465	2.4	0.3088	1.8	0.77	1734.8	27.5	1827.2	19.9	1934.1	26.9	1934.1	26.9
CO22-15	362	21129	2.7	8.3036	3.3	4.9940	4.1	0.3008	2.4	0.58	1695.1	35.6	1818.3	34.8	1962.6	59.6	1962.6	59.6
CO22-43	116	16230	3.3	8.2346	2.2	5.7588	3.2	0.3439	2.3	0.72	1905.6	37.9	1940.2	27.7	1977.5	39.7	1977.5	39.7
CO22-24	164	29157	2.5	8.0877	2.7	5.2933	4.0	0.3105	3.0	0.74	1743.1	45.8	1867.8	34.5	2009.5	47.9	2009.5	47.9
CO22-22	97	28377	2.1	8.0651	2.0	5.1094	2.6	0.2989	1.6	0.61	1685.7	23.3	1837.7	21.7	2014.4	35.8	2014.4	35.8
CO22-27	134	38760	2.2	8.0027	2.5	5.3199	2.9	0.3088	1.5	0.51	1734.7	22.2	1872.1	24.6	2028.2	43.9	2028.2	43.9
CO22-14	298	24030	7.0	7.6392	1.2	5.7296	5.9	0.3174	5.7	0.98	1777.3	88.9	1935.9	50.6	2110.1	21.6	2110.1	21.6
CO22-11	85	11067	4.9	7.5518	3.5	6.0244	5.9	0.3300	4.7	0.80	1838.2	75.8	1979.4	51.4	2130.3	61.3	2130.3	61.3
						14.789												
CO22-37	43	13257	2.7	4.8909	3.3	7	5.3	0.5246	4.2	0.79	2718.8	93.2	2801.8	50.7	2862.1	53.4	2862.1	53.4
COL-WRD-1	596	39040	36.6	17.7415	1.8	0.5202	2.9	0.0669	2.3	0.78	417.7	9.1	425.3	10.1	466.8	40.8	65.7	0.8
COL-WRD-2	1249	45868	3.4	9.3755	4.3	3.3981	6.8	0.2311	5.2	0.77	1340.1	62.9	1504.0	53.1	1743.1	79.2	86.1	4.1
COL-WRD-3	846	12756	2.3	20.5897	5.9	0.0944	6.1	0.0141	1.6	0.26	90.2	1.4	91.6	5.4	127.0	139.6	90.2	1.4
COL-WRD-4	340	7864	0.9	18.7502	3.7	0.2006	5.3	0.0273	3.7	0.71	173.5	6.4	185.6	8.9	343.0	84.4	94.6	3.4
COL-WRD-5	248	60796	3.6	12.7544	1.2	1.9755	3.1	0.1827	2.9	0.92	1081.9	28.6	1107.2	21.0	1157.1	24.1	96.2	1.9
COL-WRD-6	508	139144	2.7	9.2467	1.8	4.2703	4.6	0.2864	4.3	0.92	1623.4	61.6	1687.6	38.3	1768.4	32.7	97.1	2.3
COL-WRD-7	868	22792	2.1	19.7457	3.1	0.1748	4.2	0.0250	2.7	0.65	159.4	4.3	163.6	6.3	224.6	72.8	97.2	1.5
COL-WRD-8	347	36712	2.0	10.6327	4.2	2.9053	4.9	0.2240	2.5	0.52	1303.2	29.7	1383.3	36.8	1509.1	78.8	98.4	5.6
COL-WRD-9	596	10928	2.3	19.7087	5.2	0.1804	7.0	0.0258	4.7	0.68	164.1	7.7	168.4	10.9	229.0	119.4	99.4	2.1
COL-WRD-10	129	3580	1.4	17.7710	10.9	0.1892	11.8	0.0244	4.5	0.38	155.3	6.9	176.0	19.1	463.1	242.7	101.0	0.6
COL-WRD-11	304	10172	1.8	20.2802	7.1	0.1643	10.7	0.0242	8.0	0.75	154.0	12.2	154.5	15.3	162.5	166.4	106.2	0.5
COL-WRD-12	293	146696	3.0	9.3555	1.1	4.3590	3.0	0.2958	2.8	0.93	1670.3	41.8	1704.6	25.1	1747.0	20.0	107.8	0.5
COL-WRD-13	1432	76724	2.5	9.8810	1.5	2.7963	6.3	0.2004	6.1	0.97	1177.4	65.5	1354.6	47.0	1646.3	28.6	154.0	12.2
COL-WRD-14	375	14144	2.1	20.0457	4.9	0.1752	7.1	0.0255	5.1	0.73	162.1	8.2	163.9	10.7	189.7	113.1	155.3	6.9
COL-WRD-15	748	188520	5.0	9.6528	2.3	3.6895	3.4	0.2583	2.5	0.74	1481.1	33.2	1569.1	27.0	1689.5	41.9	156.2	7.7
COL-WRD-16	79	3108	1.5	17.6701	18.8	0.2011	19.1	0.0258	3.4	0.18	164.0	5.6	186.1	32.4	475.7	418.1	157.8	4.7
COL-WRD-17	520	14020	1.1	20.2055	5.6	0.1710	6.6	0.0251	3.5	0.53	159.5	5.5	160.3	9.8	171.2	130.7	158.1	3.6
COL-WRD-18	140	2048	1.0	19.1530	31.5	0.0738	31.5	0.0102	1.2	0.04	65.7	0.8	72.3	22.0	294.6	736.1	158.7	5.1
COL-WRD-19	488	29300	3.7	19.4359	3.4	0.2812	3.8	0.0396	1.6	0.41	250.6	3.9	251.6	8.4	261.1	79.1	159.4	4.3
COL-WRD-21	47	14856	1.7	13.2417	4.2	1.8449	5.0	0.1772	2.8	0.55	1051.5	26.7	1061.6	33.2	1082.3	84.7	159.5	5.5
COL-WRD-22	242	11604	1.6	20.4910	9.1	0.1825	9.2	0.0271	1.1	0.12	172.6	1.9	170.2	14.4	138.3	214.5	159.7	2.1
COL-WRD-23	653	28092	2.6	9.7675	1.3	3.0199	1.8	0.2139	1.2	0.69	1249.7	14.1	1412.7	13.8	1667.7	24.3	162.1	8.2

Analysis	U (ppm)	Isotope Ratios									Apparent Ages (Ma)							
		$^{206}\text{Pb}/^{204}\text{Pb}$	U/ Th	$^{206}\text{Pb}^*/^{207}\text{Pb}^*$	\pm (%)	$^{207}\text{Pb}^*/^{235}\text{U}^*$	\pm (%)	$^{206}\text{Pb}^*/^{238}\text{U}$	\pm (%)	Err. corr	$^{206}\text{Pb}^*/^{238}\text{U}^*$	\pm (Ma)	$^{207}\text{Pb}^*/^{235}\text{U}$	\pm (Ma)	$^{206}\text{Pb}^*/^{207}\text{Pb}^*$	\pm (Ma)	Best age (Ma)	\pm (Ma)
COL-WRD-24	639	10040	2.3	19.9977	4.5	0.0927	6.6	0.0134	4.8	0.73	86.1	4.1	90.0	5.6	195.2	104.7	163.4	4.8
COL-WRD-25	469	19340	2.1	18.9616	1.0	0.2475	3.9	0.0340	3.8	0.97	215.8	8.1	224.5	7.9	317.5	21.9	164.0	5.6
COL-WRD-26	220	120280	2.8	9.2019	2.7	4.7846	2.7	0.3193	0.5	0.18	1786.4	7.8	1782.2	22.7	1777.3	48.5	164.1	7.7
COL-WRD-27	353	17876	1.1	20.2836	6.3	0.1934	6.5	0.0285	1.7	0.26	180.9	3.0	179.6	10.7	162.1	146.8	165.6	3.5
COL-WRD-28	88	3088	1.3	17.2054	10.1	0.2166	10.2	0.0270	1.4	0.14	171.9	2.4	199.0	18.5	534.3	222.6	167.3	2.3
COL-WRD-29	389	6200	0.5	15.8163	31.7	0.2322	31.8	0.0266	2.7	0.08	169.5	4.5	212.0	60.9	715.8	689.0	168.3	5.9
COL-WRD-30	193	9176	1.6	19.4586	8.9	0.1879	9.0	0.0265	1.5	0.16	168.7	2.4	174.9	14.4	258.4	203.8	168.5	6.0
COL-WRD-31	271	168776	2.1	9.2383	1.6	4.7135	1.7	0.3158	0.7	0.41	1769.3	10.7	1769.6	14.2	1770.1	28.3	168.7	2.4
COL-WRD-32	440	96932	3.0	9.4965	1.7	4.0786	2.1	0.2809	1.2	0.56	1596.0	16.3	1650.0	16.8	1719.6	31.4	168.7	4.6
COL-WRD-34	222	59868	2.5	9.4644	2.3	3.9293	2.4	0.2697	0.8	0.35	1539.4	11.5	1619.7	19.4	1725.8	41.3	169.5	4.5
COL-WRD-35	114	46816	2.3	11.7152	2.3	2.7713	2.4	0.2355	0.8	0.35	1363.1	10.2	1347.9	17.9	1323.7	43.6	171.9	2.4
COL-WRD-36	121	41644	1.7	11.1013	2.2	3.0654	2.4	0.2468	1.0	0.40	1422.0	12.6	1424.1	18.8	1427.2	42.8	172.6	1.9
COL-WRD-37	77	5788	1.9	22.3713	35.4	0.1790	35.4	0.0290	0.9	0.02	184.5	1.6	167.2	54.6	-72.0	889.5	173.5	6.4
COL-WRD-39	113	11448	1.1	25.6274	27.9	0.0816	28.0	0.0152	2.4	0.09	97.1	2.3	79.7	21.5	-415.4	741.6	175.1	5.6
COL-WRD-40	157	10680	1.4	19.8926	8.4	0.1822	8.5	0.0263	1.4	0.17	167.3	2.3	170.0	13.3	207.5	195.3	175.4	2.0
COL-WRD-41	408	35384	2.5	19.1541	4.5	0.2525	6.0	0.0351	4.0	0.66	222.2	8.6	228.6	12.3	294.5	103.5	177.4	0.9
COL-WRD-42	250	17048	1.9	19.9340	5.8	0.1930	5.8	0.0279	0.5	0.09	177.4	0.9	179.1	9.5	202.6	134.0	178.5	4.0
COL-WRD-43	129	32232	1.6	17.4143	7.4	0.6652	7.5	0.0840	1.0	0.14	520.1	5.0	517.8	30.2	507.8	162.6	180.9	3.0
COL-WRD-44	196	40128	1.8	9.3899	3.1	4.3849	3.2	0.2986	0.7	0.23	1684.5	10.8	1709.5	26.2	1740.3	56.5	181.9	3.2
COL-WRD-45	94	9040	1.9	18.9598	25.0	0.2085	25.3	0.0287	3.9	0.16	182.2	7.1	192.3	44.3	317.7	575.8	182.2	7.1
COL-WRD-46	385	62184	2.7	11.0784	3.3	2.7946	3.5	0.2245	1.2	0.35	1305.8	14.5	1354.1	26.2	1431.1	62.6	184.5	1.6
COL-WRD-47	109	3280	1.5	25.8722	68.5	0.0828	68.6	0.0155	2.2	0.03	99.4	2.1	80.8	53.3	-440.3	2036.6	185.6	3.2
COL-WRD-48	232	41112	1.6	19.4875	6.7	0.2483	6.8	0.0351	1.0	0.14	222.4	2.1	225.2	13.7	255.0	154.7	188.3	1.5
COL-WRD-49	206	13172	1.4	20.4844	9.3	0.1857	9.4	0.0276	1.2	0.12	175.4	2.0	172.9	14.9	139.1	219.4	195.0	9.3
					22.557													
COL-WRD-50	36	48888	1.4	3.9757	2.9	0	3.0	0.6504	0.6	0.20	3229.9	15.2	3208.0	28.7	3194.4	45.7	199.8	3.6
COL-WRD-51	277	4144	1.3	16.6063	7.4	0.2198	8.2	0.0265	3.6	0.44	168.5	6.0	201.8	15.0	611.4	160.0	215.8	8.1
												116.						
COL-WRD-52	316	63232	3.5	9.3805	2.1	3.8215	9.0	0.2600	8.8	0.97	1489.8	5	1597.3	72.6	1742.1	38.1	222.2	8.6
COL-WRD-53	62	65024	1.8	9.4741	3.2	4.1199	6.1	0.2831	5.2	0.85	1606.9	74.1	1658.3	50.1	1723.9	59.2	222.4	2.1
COL-WRD-54	104	4684	1.3	20.2041	19.8	0.1674	20.4	0.0245	5.0	0.24	156.2	7.7	157.1	29.7	171.3	466.2	241.3	2.9
												129.						
COL-WRD-55	233	73316	2.7	9.3648	1.5	3.9427	9.6	0.2678	9.5	0.99	1529.5	5	1622.5	78.2	1745.2	27.8	250.6	3.9
COL-WRD-56	276	12912	1.0	19.7378	9.9	0.1160	9.9	0.0166	0.5	0.05	106.2	0.5	111.5	10.4	225.6	228.8	417.7	9.1
COL-WRD-57	372	38360	1.6	20.8165	5.8	0.1964	5.9	0.0296	0.8	0.14	188.3	1.5	182.0	9.8	101.2	137.2	439.3	6.2
COL-WRD-58	129	90568	1.5	9.4838	4.0	4.5396	4.1	0.3122	0.9	0.22	1751.8	14.3	1738.3	34.5	1722.0	74.3	520.1	5.0
COL-WRD-59	234	17260	1.5	19.0371	9.2	0.1995	9.7	0.0275	3.2	0.33	175.1	5.6	184.7	16.4	308.5	209.0	1051.5	26.7
COL-WRD-60	137	128048	1.9	9.1037	2.6	4.9973	2.6	0.3300	0.5	0.20	1838.1	8.3	1818.9	22.3	1796.8	47.0	1081.9	28.6
COL-WRD-61	57	2072	1.1	22.0156	48.1	0.0926	48.3	0.0148	3.6	0.08	94.6	3.4	89.9	41.6	-32.9	1232.2	1154.6	8.7
COL-WRD-62	547	17608	1.4	19.3720	2.4	0.1999	3.3	0.0281	2.3	0.68	178.5	4.0	185.0	5.6	268.6	55.5	1158.9	6.3
COL-WRD-63	173	86188	1.9	9.0956	2.0	4.8844	2.0	0.3222	0.5	0.25	1800.5	7.9	1799.6	17.1	1798.4	35.7	1323.7	43.6
COL-WRD-65	55	9556	0.8	8.9927	5.3	4.6065	5.6	0.3004	1.7	0.29	1693.5	24.6	1750.5	46.7	1819.1	97.1	1427.2	42.8

Analysis	U (ppm)	Isotope Ratios							Apparent Ages (Ma)							Best age (Ma)	\pm (Ma)	
		$^{206}\text{Pb}/^{204}\text{Pb}$	U/ Th	$^{206}\text{Pb}^*/^{207}\text{Pb}^*$	\pm (%)	$^{207}\text{Pb}^*/^{235}\text{U}^*$	\pm (%)	$^{206}\text{Pb}^*/^{238}\text{U}$	\pm (%)	Err. corr	$^{206}\text{Pb}^*/^{238}\text{U}^*$	\pm (Ma)	$^{207}\text{Pb}^*/^{235}\text{U}$	\pm (Ma)	$^{206}\text{Pb}^*/^{7}\text{Pb}^*$ 20	\pm (Ma)		
COL-WRD-66	193	6736	1.6	18.1943	9.7	0.2169	9.8	0.0286	1.8	0.18	181.9	3.2	199.3	17.8	410.7	216.8	1431.1	62.6
COL-WRD-67	79	13932	2.4	12.3077	4.7	2.2063	4.8	0.1969	0.6	0.12	1158.9	6.3	1183.1	33.3	1227.5	92.8	1509.1	78.8
COL-WRD-68	474	11044	0.6	18.3800	5.6	0.1863	6.0	0.0248	2.3	0.38	158.1	3.6	173.5	9.6	387.9	125.4	1635.1	59.1
COL-WRD-69	140	4200	1.5	20.7773	23.0	0.1048	23.0	0.0158	0.6	0.02	101.0	0.6	101.2	22.1	105.6	548.6	1646.3	28.6
COL-WRD-70	1001	21672	0.5	9.5559	2.6	3.1938	7.5	0.2214	7.0	0.94	1289.0	81.9	1455.7	57.8	1708.1	47.0	1667.7	24.3
COL-WRD-71	158	5348	1.7	21.3142	20.5	0.0995	21.3	0.0154	5.8	0.27	98.4	5.6	96.3	19.6	45.0	494.0	1687.4	39.9
COL-WRD-72	152	37820	1.9	9.4047	2.9	4.1669	3.4	0.2842	1.7	0.51	1612.6	24.8	1667.5	27.8	1737.4	53.6	1689.5	41.9
COL-WRD-73	525	17996	2.0	20.5254	5.2	0.1133	5.3	0.0169	0.5	0.10	107.8	0.5	109.0	5.4	134.4	123.1	1703.9	41.3
COL-WRD-74	71	5356	1.1	17.7695	18.8	0.2058	19.0	0.0265	2.8	0.15	168.7	4.6	190.0	32.9	463.3	419.7	1708.1	47.0
COL-WRD-75	333	15404	2.5	21.4511	9.1	0.0977	9.2	0.0152	1.5	0.17	97.2	1.5	94.6	8.4	29.7	218.8	1719.6	31.4
COL-WRD-76	418	121772	2.2	6.4746	2.5	9.1006	3.3	0.4273	2.2	0.66	2293.7	42.3	2348.2	30.2	2395.8	42.0	1722.0	74.3
					13.643													
COL-WRD-77	80	73108	1.9	5.3602	3.8	1	4.5	0.5304	2.3	0.52	2743.1	52.3	2725.3	42.5	2712.1	63.2	1723.9	59.2
COL-WRD-78	195	133384	3.0	8.6545	3.4	5.5298	3.5	0.3471	0.9	0.25	1920.7	14.8	1905.2	30.4	1888.4	61.6	1725.5	37.5
COL-WRD-79	389	30656	10.9	20.1129	4.1	0.2158	4.5	0.0315	1.8	0.41	199.8	3.6	198.4	8.1	181.9	95.3	1725.8	41.3
COL-WRD-80	147	9588	3.8	20.9953	16.7	0.2017	17.3	0.0307	4.8	0.28	195.0	9.3	186.6	29.6	80.9	397.8	1737.4	53.6
COL-WRD-82	116	5932	0.9	19.6557	11.7	0.1749	12.2	0.0249	3.3	0.27	158.7	5.1	163.6	18.4	235.2	271.5	1740.3	56.5
					14.618													
COL-WRD-83	125	162800	3.2	5.1773	3.9	0	4.9	0.5489	2.9	0.59	2820.6	66.0	2790.7	46.3	2769.2	64.3	1742.1	38.1
COL-WRD-84	1800	140764	17.2	9.9409	3.2	3.0805	4.0	0.2221	2.5	0.61	1293.0	29.1	1427.9	30.9	1635.1	59.1	1743.1	79.2
COL-WRD-85	199	44796	2.1	9.4661	2.0	4.3531	2.3	0.2989	1.2	0.49	1685.6	17.1	1703.5	19.3	1725.5	37.5	1745.2	27.8
COL-WRD-86	106	3260	1.6	17.7858	23.4	0.2017	23.5	0.0260	2.1	0.09	165.6	3.5	186.6	40.1	461.2	526.0	1747.0	20.0
COL-WRD-87	165	6496	1.3	16.9948	5.7	0.5722	5.9	0.0705	1.5	0.25	439.3	6.2	459.4	21.6	561.2	123.6	1762.9	68.0
COL-WRD-88	631	48032	2.4	19.3732	3.1	0.2714	3.3	0.0381	1.2	0.37	241.3	2.9	243.8	7.3	268.5	71.4	1768.4	32.7
					109.													
COL-WRD-89	132	143844	1.7	9.2747	3.7	4.8655	7.8	0.3273	6.9	0.88	1825.2	4	1796.3	66.0	1762.9	68.0	1770.1	28.3
COL-WRD-90	289	18304	1.5	20.2695	4.4	0.1800	5.7	0.0265	3.5	0.62	168.3	5.9	168.0	8.8	163.8	103.3	1777.3	48.5
COL-WRD-91	290	7960	1.1	19.8465	9.7	0.1743	9.8	0.0251	1.3	0.13	159.7	2.1	163.1	14.7	212.9	224.6	1796.8	47.0
COL-WRD-92	204	60616	2.4	9.6640	2.2	4.1241	2.7	0.2891	1.7	0.61	1636.8	24.0	1659.1	22.3	1687.4	39.9	1798.4	35.7
COL-WRD-93	259	12156	1.0	19.1574	9.5	0.2102	9.6	0.0292	1.8	0.18	185.6	3.2	193.7	17.0	294.1	216.3	1819.1	97.1
COL-WRD-94	44	5316	1.2	22.2518	40.4	0.1591	40.5	0.0257	3.0	0.07	163.4	4.8	149.9	56.4	-58.9	1020.3	1888.4	61.6
COL-WRD-95	68	6000	1.5	17.9901	39.9	0.1899	40.0	0.0248	3.0	0.08	157.8	4.7	176.5	64.9	435.9	922.3	1984.3	45.8
COL-WRD-96	418	164144	1.4	9.5780	2.2	3.9883	3.9	0.2771	3.2	0.82	1576.5	44.3	1631.8	31.5	1703.9	41.3	2395.8	42.0
COL-WRD-97	375	17336	2.0	19.8740	11.5	0.1043	11.6	0.0150	1.9	0.17	96.2	1.9	100.7	11.1	209.6	266.3	2712.1	63.2
COL-WRD-99	111	53216	2.8	8.2032	2.6	6.2121	2.6	0.3696	0.6	0.22	2027.5	9.9	2006.2	23.0	1984.3	45.8	2769.2	64.3
COL-WRD-100	88	49208	1.7	12.9738	3.6	2.0846	3.7	0.1961	0.8	0.22	1154.6	8.7	1143.7	25.1	1123.2	71.0	3194.4	45.7
DR_McCoy-61	183	1362	1.5	17.8320	23.2	0.0968	23.4	0.0125	2.3	0.10	80.2	1.8	93.8	20.9	455.5	522.2	80.2	1.8
DR_McCoy-80	181	1451	0.4	17.4921	18.2	0.1084	18.3	0.0138	2.4	0.13	88.1	2.1	104.5	18.2	498.0	403.4	88.1	2.1
DR_McCoy-29	295	1241	1.3	25.7308	17.1	0.0748	17.2	0.0140	1.5	0.09	89.4	1.4	73.2	12.1	-425.9	451.5	89.4	1.4
DR_McCoy-88	174	3735	1.3	13.6302	23.3	0.1477	23.3	0.0146	1.3	0.06	93.4	1.2	139.9	30.5	1024.1	477.1	93.4	1.2
DR_McCoy-90	108	1804	0.9	15.1058	18.2	0.1368	18.7	0.0150	4.3	0.23	95.9	4.1	130.1	22.8	812.7	383.3	95.9	4.1
DR_McCoy-2	22	1224	0.9	17.6410	9.2	0.1174	10.6	0.0150	5.2	0.49	96.1	5.0	112.7	11.3	479.3	204.6	96.1	5.0

Analysis	U (ppm)	Isotope Ratios									Apparent Ages (Ma)							Best age (Ma)	\pm (Ma)
		$^{206}\text{Pb}/^{204}\text{Pb}$	U/ Th	$^{206}\text{Pb}^*/^{207}\text{Pb}^*$	\pm (%)	$^{207}\text{Pb}^*/^{235}\text{U}^*$	\pm (%)	$^{206}\text{Pb}^*/^{238}\text{U}$	\pm (%)	Err. corr	$^{206}\text{Pb}^*/^{238}\text{U}^*$	\pm (Ma)	$^{207}\text{Pb}^*/^{235}\text{U}$	\pm (Ma)	$^{206}\text{Pb}^{20}/^{7}\text{Pb}^*$	\pm (Ma)			
DR_McCoy-37	223	2267	1.5	18.5410	22.4	0.1121	22.5	0.0151	1.5	0.07	96.5	1.4	107.9	23.0	368.3	511.4	96.5	1.4	
DR_McCoy-93	136	4343	1.0	15.8202	27.7	0.1315	27.7	0.0151	1.5	0.06	96.6	1.5	125.5	32.7	715.3	598.3	96.6	1.5	
DR_McCoy-87	231	1313	0.8	14.4670	40.6	0.1461	41.6	0.0153	8.7	0.21	98.1	8.4	138.5	53.8	902.4	873.8	98.1	8.4	
DR_McCoy-10	141	1262	1.6	19.9887	30.6	0.1058	30.7	0.0153	3.4	0.11	98.1	3.3	102.1	29.9	196.3	725.0	98.1	3.3	
DR_McCoy-74	158	1336	0.7	17.4426	31.7	0.1213	32.1	0.0153	4.9	0.15	98.2	4.7	116.3	35.3	504.3	714.5	98.2	4.7	
DR_McCoy-13	253	2754	1.2	18.0044	7.5	0.1189	7.9	0.0155	2.4	0.30	99.3	2.3	114.1	8.5	434.1	167.0	99.3	2.3	
DR_McCoy-20	477	4313	1.6	19.7670	7.9	0.1099	8.1	0.0158	1.5	0.18	100.8	1.5	105.9	8.1	222.1	183.6	100.8	1.5	
DR_McCoy-65	367	3930	1.4	20.3637	16.9	0.1076	16.9	0.0159	0.9	0.06	101.6	0.9	103.8	16.7	152.9	398.8	101.6	0.9	
DR_McCoy-89	203	2734	1.6	20.0454	25.5	0.1147	25.6	0.0167	2.5	0.10	106.6	2.6	110.3	26.8	189.7	602.0	106.6	2.6	
DR_McCoy-44	221	1441	0.3	17.6896	15.1	0.1916	15.2	0.0246	1.9	0.13	156.6	3.0	178.0	24.9	473.2	336.1	156.6	3.0	
DR_McCoy-59	59	1764	0.6	14.4745	33.9	0.2353	33.9	0.0247	1.7	0.05	157.3	2.6	214.5	65.7	901.3	718.4	157.3	2.6	
DR_McCoy-58	130	3163	0.6	21.3098	22.0	0.1599	22.1	0.0247	2.0	0.09	157.3	3.2	150.6	30.9	45.5	531.0	157.3	3.2	
DR_McCoy-91	54	1065	0.8	14.4915	16.2	0.2377	16.8	0.0250	4.4	0.26	159.1	6.9	216.6	32.7	898.9	335.8	159.1	6.9	
DR_McCoy-94	86	1761	0.5	21.4101	20.0	0.1617	20.1	0.0251	2.3	0.12	159.9	3.7	152.2	28.4	34.2	482.7	159.9	3.7	
DR_McCoy-26	242	3801	0.7	20.7895	10.7	0.1691	10.7	0.0255	1.3	0.12	162.3	2.1	158.6	15.8	104.2	252.5	162.3	2.1	
DR_McCoy-66	137	6045	0.6	25.9718	29.9	0.1354	30.0	0.0255	2.0	0.07	162.4	3.2	129.0	36.4	-450.4	804.0	162.4	3.2	
DR_McCoy-52	133	3563	0.6	18.2599	15.0	0.1935	15.2	0.0256	2.6	0.17	163.1	4.1	179.6	25.0	402.6	337.0	163.1	4.1	
DR_McCoy-81	125	4604	0.7	17.3493	16.7	0.2044	16.9	0.0257	2.5	0.15	163.7	4.1	188.9	29.1	516.1	368.6	163.7	4.1	
DR_McCoy-72	84	1965	0.6	23.5335	20.1	0.1509	20.3	0.0257	2.7	0.13	163.9	4.4	142.7	27.0	-197.2	507.6	163.9	4.4	
DR_McCoy-17	64	897	0.4	23.8575	32.6	0.1492	32.7	0.0258	3.1	0.10	164.3	5.1	141.2	43.2	-231.6	840.8	164.3	5.1	
DR_McCoy-15	165	2440	0.9	23.4802	18.2	0.1523	18.2	0.0259	1.1	0.06	165.0	1.7	143.9	24.4	-191.6	457.1	165.0	1.7	
DR_McCoy-99	224	2432	0.4	18.7805	16.3	0.1912	16.4	0.0260	2.3	0.14	165.7	3.7	177.6	26.8	339.3	370.9	165.7	3.7	
DR_McCoy-28	168	3163	0.5	20.1974	6.4	0.1787	6.5	0.0262	1.2	0.19	166.6	2.0	167.0	10.1	172.1	150.3	166.6	2.0	
DR_McCoy-82	229	4928	0.7	19.0290	8.2	0.1901	8.3	0.0262	1.5	0.18	166.9	2.5	176.7	13.5	309.5	186.8	166.9	2.5	
DR_McCoy-11	136	2211	1.0	22.2512	27.6	0.1625	27.7	0.0262	1.6	0.06	166.9	2.7	152.9	39.3	-58.8	684.8	166.9	2.7	
DR_McCoy-53	90	2267	0.9	17.4387	30.0	0.2083	30.1	0.0263	1.7	0.06	167.6	2.8	192.1	52.7	504.7	674.7	167.6	2.8	
DR_McCoy-23	213	4788	0.7	18.8298	10.1	0.1929	10.6	0.0263	3.3	0.31	167.6	5.4	179.1	17.4	333.4	229.8	167.6	5.4	
DR_McCoy-56	73	1530	0.5	18.4850	17.1	0.1969	17.2	0.0264	2.0	0.12	167.9	3.4	182.5	28.8	375.1	387.6	167.9	3.4	
DR_McCoy-57	200	3610	0.8	18.3846	12.8	0.1981	12.9	0.0264	1.4	0.11	168.0	2.4	183.5	21.6	387.3	288.5	168.0	2.4	
DR_McCoy-41	190	3975	0.5	20.8481	12.5	0.1753	12.6	0.0265	1.5	0.12	168.6	2.5	164.0	19.1	97.6	297.8	168.6	2.5	
DR_McCoy-76	291	8717	1.0	20.0436	8.2	0.1827	8.3	0.0266	1.2	0.14	169.0	2.0	170.4	13.0	189.9	190.9	169.0	2.0	
DR_McCoy-45	146	3652	0.7	21.2922	20.8	0.1732	20.9	0.0267	1.0	0.05	170.1	1.7	162.2	31.3	47.5	502.4	170.1	1.7	
DR_McCoy-9	189	2781	0.7	20.6067	12.6	0.1800	12.7	0.0269	1.5	0.12	171.2	2.5	168.1	19.6	125.1	296.9	171.2	2.5	
DR_McCoy-5	133	1856	0.6	20.6346	13.6	0.1819	14.1	0.0272	3.4	0.24	173.2	5.8	169.7	22.0	121.9	322.7	173.2	5.8	
DR_McCoy-77	47	1368	0.5	14.2543	23.5	0.2638	23.7	0.0273	3.5	0.15	173.5	5.9	237.7	50.4	932.8	488.4	173.5	5.9	
DR_McCoy-42	40	1823	0.7	26.1760	27.7	0.1438	28.0	0.0273	4.3	0.15	173.6	7.3	136.4	35.8	-471.1	745.2	173.6	7.3	
DR_McCoy-67	24	1517	0.4	22.4260	48.8	0.1682	49.5	0.0274	8.8	0.18	174.0	15.0	157.8	72.5	-78.0	1261.0	174.0	15.0	
DR_McCoy-86	163	3010	0.7	18.7027	13.5	0.2043	13.7	0.0277	2.0	0.15	176.2	3.5	188.8	23.5	348.7	306.8	176.2	3.5	
DR_McCoy-68	96	1808	0.8	18.9062	17.9	0.2083	18.0	0.0286	2.2	0.12	181.6	3.9	192.1	31.6	324.2	409.3	181.6	3.9	
DR_McCoy-51	76	1581	0.8	20.2004	23.5	0.1953	23.6	0.0286	2.0	0.08	181.8	3.5	181.1	39.1	171.7	554.9	181.8	3.5	
DR_McCoy-64	80	1814	0.8	26.0328	32.5	0.1558	32.5	0.0294	2.3	0.07	186.9	4.2	147.1	44.6	-456.6	875.5	186.9	4.2	
DR_McCoy-83	60	3503	6.2	16.4779	20.2	0.2614	20.4	0.0312	2.9	0.14	198.3	5.7	235.8	42.9	628.2	439.2	198.3	5.7	

DR_McCoy-7	16	1253	0.3	23.9064	14.8	0.1929	17.1	0.0334	8.6	0.50	212.1	18.0	179.1	28.1	-236.8	374.4	212.1	18.0
DR_McCoy-34	1472	6286	9.4	19.2374	1.5	0.2628	2.8	0.0367	2.3	0.84	232.1	5.3	236.9	5.9	284.6	34.7	232.1	5.3
DR_McCoy-95	52	10242	1.8	13.3531	3.2	1.7358	3.5	0.1681	1.5	0.43	1001.6	14.2	1021.9	22.9	1065.5	64.4	1001.6	14.2
DR_McCoy-96	149	27046	1.0	12.3106	1.9	2.2329	2.4	0.1994	1.5	0.62	1171.9	16.0	1191.4	17.0	1227.0	37.4	1171.9	16.0
DR_McCoy-43	90	11450	0.8	11.3500	2.5	2.8081	2.8	0.2312	1.1	0.41	1340.5	13.7	1357.7	20.8	1384.8	48.8	1384.8	48.8
DR_McCoy-39	80	15820	0.9	11.2828	2.4	2.8583	2.8	0.2339	1.4	0.50	1354.9	17.1	1371.0	20.9	1396.2	45.9	1396.2	45.9
DR_McCoy-55	47	10632	1.2	11.2336	3.5	2.9121	4.3	0.2373	2.6	0.59	1372.4	31.7	1385.1	32.6	1404.5	66.5	1404.5	66.5
DR_McCoy-47	62	11418	1.0	11.2327	2.5	2.9854	2.8	0.2432	1.2	0.42	1403.4	14.6	1403.9	21.2	1404.7	48.5	1404.7	48.5
DR_McCoy-71	74	18793	1.0	11.2278	1.2	2.9350	1.6	0.2390	1.2	0.71	1381.5	14.3	1391.0	12.3	1405.5	22.1	1405.5	22.1
DR_McCoy-36	44	9261	1.0	11.1786	4.8	3.1904	5.8	0.2587	3.2	0.55	1483.0	42.5	1454.8	44.8	1413.9	92.4	1413.9	92.4
DR_McCoy-49	130	27221	1.8	11.1114	1.2	2.7537	1.4	0.2219	0.7	0.52	1292.0	8.2	1343.1	10.1	1425.5	22.1	1425.5	22.1
DR_McCoy-16	74	10907	0.5	11.1112	2.7	2.9374	2.9	0.2367	1.1	0.37	1369.6	13.1	1391.6	21.7	1425.5	50.9	1425.5	50.9
DR_McCoy-33	342	41215	1.6	11.0841	0.9	2.8489	2.7	0.2290	2.5	0.94	1329.4	30.3	1368.5	20.1	1430.2	16.8	1430.2	16.8
DR_McCoy-21	259	34019	1.8	11.0757	1.0	3.0924	2.1	0.2484	1.9	0.89	1430.2	24.2	1430.8	16.3	1431.6	18.4	1431.6	18.4
DR_McCoy-63	70	16290	1.3	11.0629	2.2	2.9277	3.3	0.2349	2.5	0.75	1360.1	30.2	1389.1	25.0	1433.8	41.9	1433.8	41.9
DR_McCoy-25	90	14781	1.6	11.0433	1.6	3.0311	2.1	0.2428	1.3	0.64	1401.1	16.5	1415.5	15.7	1437.2	30.2	1437.2	30.2
DR_McCoy-38	814	109742	3.1	11.0248	0.7	3.0919	1.0	0.2472	0.7	0.71	1424.1	8.9	1430.7	7.6	1440.4	13.4	1440.4	13.4
DR_McCoy-79	229	40762	1.3	11.0203	0.9	3.0521	1.1	0.2439	0.7	0.63	1407.2	8.8	1420.8	8.5	1441.2	16.5	1441.2	16.5
DR_McCoy-24	316	29072	1.4	10.9903	0.7	3.0843	2.2	0.2458	2.1	0.95	1417.0	26.3	1428.8	16.8	1446.4	13.4	1446.4	13.4
DR_McCoy-19	207	40278	1.2	10.9903	1.6	3.1302	2.3	0.2495	1.7	0.74	1435.9	22.3	1440.1	18.0	1446.4	29.9	1446.4	29.9
DR_McCoy-27	123	17402	0.7	10.9758	1.4	3.1356	1.9	0.2496	1.3	0.67	1436.4	16.1	1441.5	14.4	1448.9	26.5	1448.9	26.5
DR_McCoy-100	42	8124	1.3	10.9203	3.3	3.0829	3.5	0.2442	1.2	0.33	1408.4	14.6	1428.5	26.8	1458.5	62.8	1458.5	62.8
DR_McCoy-3	91	10603	1.5	10.8750	2.1	2.8350	3.2	0.2236	2.4	0.74	1300.9	27.9	1364.9	23.9	1466.4	40.4	1466.4	40.4
DR_McCoy-78	230	53810	1.4	10.8742	1.1	3.1692	1.3	0.2499	0.7	0.55	1438.2	9.0	1449.7	9.9	1466.6	20.4	1466.6	20.4
DR_McCoy-22	101	19327	1.3	10.8623	1.4	3.1241	1.8	0.2461	1.2	0.65	1418.4	15.0	1438.6	13.9	1468.6	26.1	1468.6	26.1
DR_McCoy-84	42	7121	1.2	10.8609	4.3	3.1498	5.1	0.2481	2.8	0.54	1428.7	35.4	1445.0	39.4	1468.9	81.8	1468.9	81.8
DR_McCoy-62	216	26170	1.1	10.8556	1.6	2.6190	2.1	0.2062	1.5	0.68	1208.5	16.0	1306.0	15.6	1469.8	29.6	1469.8	29.6
DR_McCoy-50	153	21504	1.0	10.8318	1.4	3.0562	1.7	0.2401	1.0	0.56	1387.2	11.9	1421.8	12.9	1474.0	26.3	1474.0	26.3
DR_McCoy-12	170	3969	1.6	10.1194	3.5	3.2211	3.8	0.2364	1.5	0.39	1368.0	18.3	1462.3	29.4	1602.0	65.1	1602.0	65.1
DR_McCoy-6	116	15467	1.2	10.0143	1.1	3.6568	3.7	0.2656	3.5	0.96	1518.4	47.4	1562.0	29.2	1621.4	19.8	1621.4	19.8
DR_McCoy-4	251	35631	1.4	9.9075	1.0	3.6048	1.9	0.2590	1.7	0.86	1484.9	21.9	1550.6	15.2	1641.3	17.9	1641.3	17.9
DR_McCoy-75	6	2933	1.2	9.8707	3.0	3.2222	4.6	0.2307	3.4	0.75	1338.0	41.3	1462.5	35.4	1648.2	56.2	1648.2	56.2
DR_McCoy-31	25	5559	0.8	9.7295	4.1	3.2682	5.0	0.2306	2.9	0.58	1337.7	35.2	1473.5	39.2	1674.9	76.0	1674.9	76.0
DR_McCoy-32	30	3429	2.1	9.7009	8.0	3.3133	8.7	0.2331	3.6	0.42	1350.8	44.3	1484.2	68.3	1680.4	147.1	1680.4	147.1
DR_McCoy-8	50	7666	1.2	9.6085	3.5	4.1969	4.1	0.2925	2.2	0.54	1653.9	32.7	1673.4	34.0	1698.0	64.3	1698.0	64.3
DR_McCoy-60	76	25157	1.3	9.6048	1.7	4.2776	3.0	0.2980	2.4	0.82	1681.3	36.0	1689.1	24.3	1698.7	31.0	1698.7	31.0
DR_McCoy-70	313	22741	2.2	9.5896	1.0	4.2405	2.2	0.2949	2.0	0.89	1666.1	28.8	1681.9	18.1	1701.6	18.7	1701.6	18.7
DR_McCoy-40	74	19045	1.4	9.5631	2.2	4.3256	2.5	0.3000	1.2	0.48	1691.4	17.6	1698.3	20.3	1706.7	39.8	1706.7	39.8
DR_McCoy-54	87	21382	1.1	9.5410	1.5	4.1230	5.7	0.2853	5.5	0.97	1618.0	78.1	1658.9	46.2	1711.0	26.8	1711.0	26.8
DR_McCoy-69	301	29482	15.0	9.5035	0.8	4.0746	1.7	0.2808	1.5	0.87	1595.6	20.8	1649.2	13.7	1718.2	15.0	1718.2	15.0
DR_McCoy-85	198	14116	1.7	9.5017	0.8	3.3891	5.2	0.2336	5.1	0.99	1353.1	62.2	1501.9	40.5	1718.6	15.1	1718.6	15.1
DR_McCoy-35	20	1440	0.6	9.4967	3.5	3.4072	6.6	0.2347	5.6	0.85	1359.0	68.9	1506.1	52.0	1719.5	64.1	1719.5	64.1
DR_McCoy-98	101	24165	2.1	9.3816	1.4	4.1252	5.4	0.2807	5.2	0.97	1594.8	73.3	1659.3	43.9	1741.9	24.9	1741.9	24.9
DR_McCoy-48	180	17482	1.6	9.3797	1.0	4.3140	1.7	0.2935	1.4	0.82	1658.9	19.9	1696.0	13.7	1742.3	17.7	1742.3	17.7
DR_McCoy-46	191	51376	1.6	9.3570	1.1	4.3900	1.8	0.2979	1.4	0.76	1681.0	20.0	1710.5	14.6	1746.7	20.9	1746.7	20.9
DR_McCoy-92	382	79600	4.7	9.3151	0.7	4.3887	1.7	0.2965	1.6	0.91	1673.9	23.3	1710.2	14.3	1754.9	12.8	1754.9	12.8

DR_McCoy-97	110	61488	1.5	9.3131	1.0	4.3009	1.7	0.2905	1.4	0.81	1644.0	20.2	1693.5	14.1	1755.3	18.2	1755.3	18.2
DR_McCoy-18	108	12303	1.6	9.2988	2.7	4.3192	3.3	0.2913	1.9	0.58	1648.0	27.6	1697.0	26.9	1758.1	48.5	1758.1	48.5
DR_McCoy-1	42	6715	0.7	9.2920	2.6	4.6946	3.9	0.3164	2.9	0.74	1772.0	44.6	1766.3	32.4	1759.5	47.2	1759.5	47.2
DR_McCoy-30	125	22283	1.1	9.1848	0.7	4.6770	1.0	0.3116	0.7	0.71	1748.4	10.7	1763.1	8.3	1780.7	12.8	1780.7	12.8
DR_McCoy-14	137	25552	1.2	9.1572	0.8	4.4195	3.4	0.2935	3.3	0.97	1659.1	48.1	1716.0	28.1	1786.2	15.0	1786.2	15.0

Notes:

All uncertainties are reported at the 1-sigma level, and include only measurement errors. Systematic errors would increase age uncertainties by 0.9-1.2%.

U concentration and U/Th are calibrated relative to Sri Lanka zircon and/or NIST SRM 610 and are accurate to ~20%.

Common Pb correction is from ^{204}Pb , with composition interpreted from Stacey and Kramers (1975) and uncertainties of 1.0 for $^{206}\text{Pb}/^{204}\text{Pb}$, 0.3 for $^{207}\text{Pb}/^{204}\text{Pb}$, and 2.0 for $^{208}\text{Pb}/^{204}\text{Pb}$.

U/Pb and $^{206}\text{Pb}/^{207}\text{Pb}$ fractionation is calibrated relative to fragments of a large Sri Lanka zircon of 563.5 ± 3.2 Ma (2-sigma).

U decay constants and composition as follows: $^{238}\text{U} = 9.8485 \times 10^{-10}$, $^{235}\text{U} = 1.55125 \times 10^{-10}$, $^{238}\text{U}/^{235}\text{U} = 137.88$

Analytical methods as described by Gehrels et al. (2008).

Data Repository References

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