TABLE 28.—*Analyses of sandstone from the Salt Wash member of the Morrison formation*

[Semiquantitative spectrographic determinations made by the rapid visual-comparison method. Comparisons of similar data with those obtained by quantitative methods show that the assigned semiquantitative class interval includes the quantitative value in about 60 percent of the determinations. These analyses were done on a custom basis as a special study by R. G. Havens. This involved a reexamination of spectrograms for elements reported as zero or trace. Determinations shown within parentheses are the result of reexamination of spectrograms, but are below the safe limit for element sensitivity. Analysts: Colorimetric, (Se) J. E. Wilson, G. T. Burrow, and J. W. Meadows; (As, Sb, Zn) R. R. Beins, W. D. Gross, and J. S. Wahlberg; Fluorimetric, H. H. Lipp and R. P. Cox; Radiometric, (1) S. P. Furman, (2) S. P. Furman and J. L. McGurk, (3) C. G. Angelo. Stratigraphic position is shown in feet above base (↑)]

Sample No.[1]	Laboratory No.	Location	Stratigraphic position (feet)	Semiquantitative spectrographic analyses																							Colorimetric analyses				Fluorimetric analyses	Analyst	Radiometric analyses
				Al	Fe	Mg	Ca	Na	K	Ti	Zr	Mn	Ba	Sr	B	V	Cr	Co	Ni	Cu	Ga	Y	Mo	Ag	Yb	Pb	Se (ppm)	As (ppm)	Sb (ppm)	Zn (ppm)	Percent U		Percent eU
		Colorado																															
L-19	54436	Dolores mine	Top ledge	x.–	0.x+	x.–	x.–	0.0x+	x.–	0.0x+	0.00x+	0.0x	0.0x	0.00x+	0.00x–	0.00x	0.0x–	0	0.00x	0.00x+	<0.0002	0	0	0	(0.0000x+)	(0.000x)	<0.5	120	----	20	0.0003	1	0.001
18	54435	do	223↑	.x+	.x	.x+	x.–	.0x	0.x+	.0x	.00x	.0x–	.0x	.00x+	<.001	.00x+	.0x–	0	.00x	.0x–	<.0002	0	0	0	0	(.000x)	<.5	65	----	19	.0002	1	<.001
15	54434	do	45↑	.x+	.x	.x+	x.–	.0x+	x.–	.0x+	.0x–	.00x+	.0x	.00x	<.001	.00x–	.0x–	0	.00x	.00x+	<.0002	0	0	0	(.0000x+)	(.000x)	<.5	3	----	14	.0002	1	.001
14	54433	do	Basal ledge	.x+	.x	.x+	x.–	.0x+	x.–	.0x–	.00x	.0x–	.0x	.00x+	<.001	.00x–	.0x–	0	.00x	.00x+	<.0002	0	0	0	0	.000x+	2	7	----	20	.0005	1	.002
23	D-84025	Tabequache Creek	Top ledge	x.–	.x	.0x+	.0x+	<.03	0	.x–	.0x	.000x+	.00x+	.00x+	<.001	.000x+	.000x	0	0	.00x–	<.0002	(.000x)	0	(0)	0	0	2	50	<1	<20	.0005	2	<.001
28	56573	Tenderfoot Mesa	do	x.–	.x+	.x	.x+	.0x	.x	.0x	.00x+	.00x+	.0x	.00x+	.00x–	.00x–	.00x–	.000x–	.000x–	.00x–	<.0002	.000x+	0	(.0000x–)	<.0001	(.0000x)	<.5	47	----	17	.0004	3	.001
27	56572	do	175↑	x.–	.x	.x+	x.–	.0x+	.x+	.0x	.00x+	.0x–	.0x+	.00x+	.00x–	.00x–	.00x	.000x–	.000x–	.00x–	<.0002	0	0	0	0	0	<.5	14	----	15	<.0001	3	.001
26	56571	do	90↑	.x+	.x	.x	x.	.x–	x.–	.0x–	.00x–	.0x	.0x	.0x–	.00x–	.00x–	.000x+	.000x–	.000x–	.00x–	<.0002	0	0	0	0	0	<.5	4	----	19	<.0001	3	.001
25	56570	do	50↑	x.–	.x	.x	x.–	.0x+	x.–	.0x	.00x	.00x+	.0x	.00x+	.00x–	.00x–	.000x+	0	.000x–	.000x+	<.0002	0	0	0	0	0	0.5	5	----	22	.0001	3	.001
45	D-84027	North Sinbad Valley	Top ledge	x.–	.x	.x	x.	.0x+	0	.0x+	.0x–	.0x–	.0x	.00x–	.00x	.00x	.000x+	0	(.000x–)	.00x–	<.0002	0	0	(0)	<.0001	0	<.5	100	----	<20	.0002	2	.001
50	D-84028	Dry Creek anticline	137↑	x.–	.x	.x	x.+	.x–	.x	.0x+	.00x	.0x	.0x–	.00x–	<.001	.000x+	.000x	0	<.0002	.00x–	<.0002	0	0	(0)	<.0001	0	<.5	<10	1	<20	.0014	2	<.001
58	D-84029	Summit Point	120↑	x.–	.x	.x+	x.+	.0x+	.x	.0x+	.00x+	.0x	.0x	.00x+	.00x	.00x	.000x+	0	.000x–	.0x	<.0002	0	0	(0)	<.0001	0	<.5	<10	1	<20	.0002	2	<.001
191	D-73019	Lower McElmo Canyon	Top ledge	.x+	.x	.x–	x.–	.0x+	.x+	.x–	.00x+	.0x	.0x	.00x+	.00x	.00x–	.00x+	0	0	.000x+	<.0002	0	0	0	0	0	3.5	<10	----	50	<.0001	1	.002
329	D-84036	Sapinero	71↑	.x	.0x+	.0x+	.x–	<.03	0	.0x–	.00x	.000x+	.0x+	.00x	<.001	.00x–	.000x–	0	0	.00x–	<.0002	0	0	(0)	0	0	<.5	<10	1	<20	.0003	2	<.001
330	D-84037	Red Canyon	82↑	.x+	.0x+	.0x+	.0x+	<.03	0	.0x+	.00x+	.000x+	.0x–	.00x+	<.001	0	.000x–	0	0	.000x+	<.0002	0	0	(0)	0	0	<.5	10	1	<20	.0002	2	<.001
333	D-84042	Bridgeport	58↑	x.–	.x	.x	x.+	.x	.x+	.0x+	.0x–	.0x	.0x+	.00x+	.00x	.000x+	.000x+	0	(.000x–)	.000x+	<.0002	0	0	(0)	0	0	<.5	<10	<1	<20	.0002	2	.001
334	D-84043	Maverick	Basal ledge	x.–	.x	.x	x.+	.x–	.x+	.0x+	.00x+	.0x	.0x–	.0x–	<.001	.000x+	.000x+	0	(.000x–)	.0x	<.0002	0	0	(0)	<.0001	0	<.5	20	<1	<20	.0002	2	<.001
340	D-84044	State line	Top ledge	x.–	.x	.x	x.+	.x	(.x)	.0x+	.0x–	.0x+	.x	.0x–	.00x–	.000x+	.000x+	(.000x)	.000x–	.00x–	<.0002	0	0	(0)	<.0001	0	<.5	10	<1	<20	.0002	2	<.001
342	D-84046	Loma	123↑	x.–	.x–	.x–	x.+	.0x+	0	.0x+	.00x	.0x	.00x+	.00x	<.001	.000x+	.000x	0	0	.00x–	<.0002	0	0	(0)	<.0001	0	.5	<10	<1	<20	.0002	2	<.001
341	D-84045	do	57↑	x.–	.x–	.0x+	x.+	.x–	(.x)	.0x	.00x	.0x	.0x+	.00x+	<.001	.000x+	.000x	0	<.0002	.000x+	<.0002	0	0	(0)	<.0001	0	.5	<10	<1	<20	.0002	2	<.001
343	D-73028	Meeker	Basal ledge	x.	.x+	.x–	x.	.x	x.	.x–	.0x	.0x	.0x–	.00x+	.00x	.00x–	.00x	0	.000x	.00x	<.0002	.00x–	0	(.0000x–)	.000x	(.000x)	<.5	<10	1	20	.0002	1	.001
344	D-84047	Burns	Top ledge	x.–	.x	.x	x.+	.x	x.–	.0x+	.0x–	.0x	.0x+	.00x+	.00x–	.000x+	.00x–	0	0	.00x–	<.0002	(.000x)	0	(0)	0	0	<.5	<10	<1	<20	.0001	2	<.001
345	D-84048	Black Ridge	68↑	x.–	.x–	.x–	x.+	.x–	.x+	.0x+	.00x+	.0x	.x–	.0x–	.00x–	.000x+	.00x–	0	0	.00x–	<.0002	0	0	(0)	<.0001	.00x–	.5	<10	<1	<20	.0002	2	.001
352	D-84051	San Miguel Canyon	Top ledge	x.	.x+	x.	x.+	.x–	.x+	.0x+	.0x	.0x	.x	.0x–	.00x	.000x+	.000x+	.000x+	.000x+	.00x	<.0002	0	0	(0)	<.0001	0	<.5	<10	1	20	.0002	2	<.001
351	D-84050	do	100↑	x.–	.x	.x	x.+	<.03	(.x)	.0x+	.0x	.0x	.0x+	.00x+	.00x	.000x+	.000x+	0	0	.00x–	<.0002	0	0	(0)	<.0001	0	<.5	<10	<1	<20	.0001	3	<.001
349	D-84049	do	Basal ledge	x.–	.x	.x+	x.	.0x	0	.0x+	.0x–	.0x–	.00x+	.00x	.00x	.000x+	.000x	(.000x)	.000x+	.0x–	<.0002	0	0	(0)	<.0001	0	.5	40	10	<20	.0001	2	<.001
356	54441	Horseshoe Bend	225↑	.x+	.x+	.x	x.	.x–	0	.0x–	.00x+	.0x	.x–	.0x–	<.001	.00x–	.0x–	0	.00x	.00x+	<.0002	0	0	0	0	(.000x–)	<.5	4	----	18	.0002	1	.001
354	54440	do	70↑	.x+	.x–	.x–	x.	.0x+	(.x)	.0x–	.00x	.0x	.0x	.00x+	<.001	.000x+	.000x–	0	(.000x–)	.000x+	<.0002	0	0	0	0	0	<.5	2	----	4	<.0001	1	<.001
366	54442	do	Basal ledge	.x+	.x+	.x+	x.–	.0x+	x.–	.0x	.00x	.0x	.0x	.00x	<.001	.00x+	.00x+	0	.00x	.0x–	<.0002	0	0	0	0	(.000x–)	<.5	3	----	39	.0002	1	.001
368	D-84053	Bilk Creek	do	x.–	.x+	.x	x.+	(.0x)	.x	.0x+	.0x–	.0x	.x–	.00x+	.00x	.000x+	.00x–	(.000x)	.000x+	.00x–	<.0002	0	0	(.0000x)	<.0001	.0x–	<.5	<10	----	70	.0003	2	.001
388	D-84040	Monitor Creek	Top ledge	x.–	.x	.x–	x.+	.0x+	0	.0x+	.00x	.0x	.0x	.00x+	0	.000x+	.00x–	0	<.0002	.00x	<.0002	0	0	(0)	0	0	<.5	20	<1	<20	.0003	2	<.001
390	D-84041	do	170↑	x.–	x.–	x.+	x.+	.x	.x+	.0x	.00x	.0x+	.x–	.0x–	<.001	.00x–	.000x+	.000x+	.00x–	.00x+	<.0002	0	0	(0)	0	(.000x–)	.5	<10	<1	<20	.0012	2	<.001
331	D-84038	do	49↑	.x+	.x	.x+	xx.	.x–	.x+	.0x–	.00x	.0x	.0x–	.0x–	<.001	.000x+	.000x+	0	<.0002	.00x–	<.0002	0	0	(0)	<.0001	0	----	10	<1	<20	.0003	2	<.001
405	D-84062	Escalante	Top ledge	x.–	.x	.x+	x.–	.0x+	0	.0x+	.00x+	.0x	.0x+	.00x+	<.001	.000x+	.000x+	0	0	.000x+	<.0002	(.000x)	0	(0)	<.0001	0	<.5	<10	<1	<20	.0002	2	<.001
508	D-84070	Pinon	do	x.–	.x	.x	x.+	.0x	0	.0x	.0x–	.0x–	.0x+	.0x–	.00x	.000x+	.000x	0	0	.00x–	<.0002	0	0	(0)	<.0001	0	<.5	<10	1	<20	.0001	2	<.001
557	D-84071	Lower Piedra River	Basal ledge	x.+	x.–	.x	x.–	x.–	x.–	.x–	.0x	.0x–	.x–	.0x–	(.00x–)	.00x	.00x–	.000x+	.000x+	.00x	0.000x+	.00x–	0	(0)	.000x–	0	<.5	20	----	<20	.0003	2	.001
2	56569	Skein Mesa	Top ledge	.x+	.x	.x+	x.–	.0x+	x.–	.00x+	.00x–	.0x	.0x–	.00x	0	.00x–	.000x	0	.000x–	.00x	<.0002	0	0	0	0	0	<.5	6	----	47	<.0001	3	<.001
582	56578	do	245↑	x.–	.x	.x+	x.–	.x	x.	.0x	.00x+	.0x	.0x	.00x	.00x–	.00x–	.000x+	.000x–	.000x–	.000x+	<.0002	0	0	0	0	0	<.5	6	----	11	<.0001	3	.002
588	56579	do	190↑	x.–	.x+	.x+	x.–	.0x+	.x	.0x+	.00x+	.0x	.0x	.00x	.00x–	.00x+	.00x	.000x–	.000x–	.000x+	<.0002	.000x+	0	0	0	(.000x)	<.5	6	----	17	<.0001	3	.001
603	56581	do	30↑	.x	.x–	.x+	x.–	.x–	.x	.0x–	.00x–	.0x	.00x+	.00x–	0	.000x+	.000x+	.000x–	.000x–	.000x+	<.0002	0	0	0	0	0	<.5	7	----	4	<.0001	3	<.001
599	56580	do	Basal ledge	.x	.x–	.x+	x.–	.0x+	.x	.00x+	.00x–	.0x	.00x+	.000x+	0	.000x+	.000x	.000x–	.000x–	.000x+	<.0002	0	0	0	0	0	<.5	5	----	21	<.0001	3	<.001
609	D-84074	Animas River	70↑	x.	.x+	.x	x.–	.x+	x.–	.x–	.0x–	.0x	.0x–	.00x+	.00x	.00x–	.000x+	0	0	.00x–	<.0002	(.000x+)	0	(0)	(.000x–)	0	<.5	<10	<1	<20	.0001	2	<.001
608	D-84073	do	50↑	x.–	.x+	.x–	x.–	.x	.x	.0x+	.00x+	.0x–	.00x+	.00x+	.00x	.000x+	.000x	0	0	.00x+	<.0002	0	0	(0)	<.0001	0	.5	<10	----	<20	.0001	2	.001
605	D-84072	Rio Pinos	Basal ledge	x.–	.x	.0x+	x.	.0x+	0	.0x	.00x+	.0x	.0x–	.00x–	<.001	.000x+	.000x	0	0	.000x+	<.0002	0	0	(0)	<.0001	0	<.5	<10	<1	<20	.0003	2	<.001
658	D-84081	Almont	30↑	x.–	.x–	.x–	.x	(.0x)	.x	.x–	.0x–	.00x–	.x	.00x+	.00x+	.00x+	.00x–	0	0	.000x+	<.0002	(.000x)	0	(0)	<.0001	0	<.5	<10	<1	<20	.0002	2	<.001
659	D-84082	do	Basal ledge	x.–	.x–	.0x+	.x	(.0x)	0	.0x+	.00x+	.000x+	.x–	.00x+	.00x	.000x+	.000x	0	0	.00x–	<.0002	0	0	(.0000x)	<.0001	0	<.5	<10	----	<20	.0003	2	.001
799	D-84085	Stoner	do	.x+	.x	.x–	x.+	.0x+	(.x)	.0x	.00x+	.0x+	.x–	.00x+	<.001	.000x+	.000x+	0	0	.00x–	<.0002	0	0	(0)	<.0001	0	.5	<10	<1	<20	.0001	2	<.001
		Utah																															
37	D-84026	La Sal Creek	132↑	x.–	.x	.x+	xx.	.x–	x.–	.0x+	.00x+	.0x+	.0x–	.0x–	<.001	.00x	.000x+	0	(.000x–)	.00x	<.0002	(.000x)	0	(0)	<.0001	0	1	<10	----	<20	.0002	2	.002
157	56574	Floy	33↑	.x+	.x	.x	x.+	.x	x.–	.0x	.00x+	.0x	x.–	.0x+	<.00x–	.00x–	.00x–	.000x–	.000x–	.000x+	<.0002	.000x+	0	0	<.0001	(.0000x)	<.5	9	----	19	.0001	3	.002
222	D-73021	do	Basal ledge	.x+	.x–	.x–	x.	x.–	x.–	.0x+	.0x	.0x	.0x	.00x+	.00x	.00x	.000x+	0	0	.000x+	<.0002	.000x+	0	0	.000x–	(.000x)	6	<10	----	20	.0002	1	.001
158	D-84030	San Rafael River Bridge	Top ledge	.x+	.x+	.x	xx.	.x–	0	.0x	.00x	.x–	.00x+	.00x+	<.001	.000x+	.000x+	.000x+	.00x–	.00x–	<.0002	0	0.00x+	<.00005	<.0001	0	.5	250	----	<20	.0011	2	.001
159	D-84031	do	Intermediate ledge	.x+	.x–	.x–	xx.	.x–	0	.0x	.0x	.0x	.0x–	.00x+	<.001	.000x+	.000x	0	0	.00x–	<.0002	0	0	(0)	<.0001	0	<.5	<10	<1	<20	.0004	2	<.001
233	54437	Yellow Cat	Just above ore	.x+	.x	.x	x.–	.0x	.x+	.0x	.00x+	.00x+	.0x+	.00x	<.001	.0x	.0x–	.000x+	.00x+	.0x–	<.0002	0	0	0	.000x–	(.000x)	3	10	----	18	.0010	1	.002
379	D-84056	Mancos Jim Butte	Basal ledge	x.–	.x–	.x	.x+	.x–	.x	.0x+	.0x–	.0x–	.0x	.00x	(.00x–)	.000x+	.000x+	0	0	.00x–	<.0002	0	0	(0)	<.0001	0	<.5	30	<1	<20	.0004	2	<.001
391	D-84057	Recapture Creek	do	.x+	.x–	.x	x.–	.x–	.x	.0x+	.0x	.0x–	.0x	.00x	<.001	.000x+	.000x	(.000x–)	0	.000x+	<.0002	0	0	(0)	<.0001	0	<.5	30	<1	<20	.0006	2	<.001
393	D-84058	Black Mesa	do	x.–	.x	.x–	.x+	.0x+	.x+	.0x+	.0x–	.00x+	.0x	.00x–	<.001	.000x+	.000x+	0	0	.00x–	<.0002	0	0	(0)	<.0001	0	<.5	20	<1	<20	.0001	2	<.001
399	D-84060	Upper Montezuma Canyon	219↑	x.–	.x	.x	x.–	.x	.x+	.x–	.0x	.0x–	.0x+	.00x+	.00x	.00x–	.000x+	0	0	.00x–	<.0002	(.000x)	0	(0)	(.000x–)	0	<.5	<10	----	<20	.0002	2	.001
400	D-84061	Tidwell ranch	Top ledge	x.–	.x	.x	x.+	.x	.x+	.x–	.0x–	.0x+	.0x–	.00x+	.00x	.00x–	.000x+	0	0	.000x+	<.0002	.00x–	0	(0)	.000x–	0	<.5	<10	1	<20	.0002	2	<.001
418	D-73030	Duma Point	do	x.–	.x–	.0x+	x.–	.x–	0	.0x+	.00x+	.0x–	.0x+	.00x	.00x–	.000x+	.00x–	0	0	00x–	<.0002	0	0	0	<.0001	(.000x)	2	<10	----	20	.0003	1	.001
482	D-84063	Buckhorn Flat	do	x.–	.x–	.x	x.+	.x	(.x)	.0x+	.0x	.0x+	.0x–	.00x+	.00x	.000x+	.000x+	0	0	.00x	<.0002	.000x+	0	(0)	(.000x–)	0	<.5	<10	<1	<20	.0001	2	<.001
489	D-73031	Hart Draw	156↑	x.–	.x+	.x+	x.	.x	x.–	.0x+	.0x	.0x+	.x–	.00x+	.00x–	.00x–	.00x–	(.000x–)	0	.00x–	<.0002	0	0	0	<.0001	(.000x)	<.5	<10	----	20	.0004	1	.001
495	D-84066	Cane Springs	Basal ledge	x.–	.0x+	.0x+	x.+	.0x+	.x+	.0x	.00x+	.0x–	.0x–	.00x	<.001	.000x+	.000x+	0	0	.00x	<.0002	0	0	(0)	<.0001	0	<.5	20	<1	<20	.0001	2	<.001
499	D-84067	Polar Mesa	Top ledge	x.–	.x	.x	.x+	<.03	0	.0x+	.0x–	.0x	.x	.00x	(.00x–)	.000x+	.000x+	0	(.000x–)	.00x	<.0002	(.000x)	0	(0)	<.0001	0	<.5	<10	----	<20	.0001	2	.001
501	D-84065	Church Rock	do	x.–	.x–	.x–	.x	.x–	(.x)	.0x+	.00x+	.0x	.0x–	.000x+	<.001	.0x–	.000x–	0	0	.000x+	<.0002	0	0	(0)	<.0001	0	.5	70	<1	<20	.0002	2	<.001
491	D-84064	do	Basal ledge	x.–	.x	.x	x.+	.x–	x.–	.0x+	.0x	.0x	.0x–	.0x–	.00x	.000x+	.000x+	(.000x–)	0	.00x–	<.0002	.00x–	0	(0)	.000x–	(.000x–)	<.5	<10	----	<20	.0001	2	.001
502	D-84068	Little Grand	Top ledge	x.–	.x	.x	x.	.x	0	.0x+	.00x+	.0x	.00x+	.00x	<.001	.000x+	.000x+	0	0	.00x–	<.0002	0	0	(0)	<.0001	0	<.5	<10	----	<20	.0002	2	.001
505	D-84069	Salt Valley	Basal ledge	.x+	.0x+	.x–	xx.	.0x	0	.0x–	.00x+	.0x+	.00x+	.0x–	<.001	.000x+	.000x+	0	0	.00x–	<.0002	0	0	(0)	<.0001	0	.5	<10	<1	<20	.0001	2	<.001
612	D-84076	Spring Canyon	108↑	.x	.x–	.0x+	xx.	.0x+	.x	.0x	.00x	.0x+	.00x+	.00x+	<.001	.000x+	.000x+	0	0	.00x–	<.0002	0	0	(0)	<.0001	0	<.5	20	----	<20	.0001	2	.001
611	D-84075	do	Basal ledge	.x+	.x–	.x–	xx.	.x–	.x+	.0x	.00x	.0x	.0x–	.00x+	<.001	.000x+	.000x+	0	0	.0x	<.0002	0	0	(0)	<.0001	0	<.5	10	1	<20	.0002	2	<.001
615	D-84077	Shootering Point	Top ledge	x.	.x	.x–	.x	.0x+	.x	.x–	.0x–	.00x+	.0x	.00x+	<.001	.000x+	.000x+	0	(.000x–)	.00x–	<.0002	0	0	(0)	<.0001	0	<.5	<10	<1	<20	.0001	2	<.001
616	D-84078	do	Intermediate ledge	x.–	.x–	.x–	x.+	.0x+	.x+	.0x+	.0x–	.0x–	.0x–	.00x	<.001	.00x–	.000x+	0	0	.00x–	<.0002	0	0	(0)	<.0001	0	<.5	10	----	<20	.0001	2	.001
621	D-84079	Summerville Draw	Top ledge	x.–	.x	.x	x.	.x+	.x	.x–	.0x	.0x–	.0x–	.00x–	(.00x–)	.000x+	.000x+	0	0	.00x–	<.0002	0	0	(0)	<.0001	0	<.5	80	<1	<20	.0001	2	<.001
625	D-84080	Mounds	Basal ledge	x.–	.x+	x.–	x.+	.x+	.x	.0x+	.00x+	.0x	.x	.0x–	.00x–	.000x+	.00x–	0	(.000x–)	.00x–	<.0002	(.000x)	0	(0)	<.0001	0	<.5	<10	1	<20	.0002	2	<.001
628	D-73034	Drunk Mans Point	do	.x–	.x–	.0x	x.+	.x–	0	.00x+	.00x–	.0x+	.0x–	.00x	.00x–	.00x–	.00x–	0	0	.000x+	<.0002	0	0	0	<.0001	0	<.5	<10	<1	20	.0003	1	.000
637	D-73035	Hall Creek	Top ledge	x.–	.x	.0x	.0x+	.x	x.	.0x+	.00x+	.00x+	.0x	.00x	.00x	.00x–	.000x	0	.000x–	.000x+	<.0002	0	0	0	<.0001	0	<.5	10	1	<20	.0002	1	.000
805	D-84086	Flattop Butte	40↑	.x+	.x–	.0x+	x.	.0x+	0	.0x	.0x–	.0x–	.0x	.00x–	<.001	.000x+	.000x	0	0	.000x+	<.0002	0	0	(0)	<.0001	0	<.5	10	1	<20	.0004	2	.001
806	D-84087	do	Basal ledge	x.–	.x	.x–	x.+	.x	.x+	.x–	.0x	.0x	.0x–	.0x–	(.00x–)	.00x–	.00x	0	0	.00x–	<.0002	(.000x+)	0	(0)	(.000x–)	0	<.5	10	----	<20	.0004	2	.002
811	D-84088	Crescent Creek	Top ledge	x.–	.x–	.0x+	x.+	.0x	0	.0x+	.00x+	.0x	.0x	.00x+	<.001	.000x+	.000x	0	0	.00x–	<.0002	0	0	(0)	<.0001	0	<.5	<10	----	<20	.0001	2	.001
814	D-84091	Factory Butte	do	.x+	.x–	.0x+	.x+	.x–	0	.0x	.0x	.0x–	.0x–	.00x	<.001	.000x+	.000x	0	0	.00x–	<.0002	0	0	(0)	<.0001	0	<.5	20	<1	<20	.0001	2	<.001
813	D-84090	do	90↑	x.–	.x–	.x–	x.	.x	.x+	.0x+	.0x	.0x–	.0x	.00x	<.001	.000x+	.000x+	0	0	.00x	<.0002	(.000x+)	0	(0)	.000x–	0	.5	<10	<1	<20	.0002	2	<.001
812	D-84089	do	Basal ledge	.x+	.x–	.0x+	xx.	.x–	(.x)	.0x	.00x	.0x+	.0x–	.00x+	<.001	.000x+	.000x+	0	0	.00x–	<.0002	0	0	(0)	<.0001	0	<.5	<10	1	<20	.0002	2	<.001
817	D-84092	Caneville	100↑	x.–	.x–	.x–	x.+	.x	.x+	.0x+	.0x–	.0x	.0x	.00x	.00x	.000x+	.000x+	0	0	.00x–	<.0002	0	0	(0)	<.0001	0	1	<10	1	<20	.0003	2	.001
821	D-84093	Collette Creek	Basal ledge	x.–	.x–	.0x+	x.+	.x–	.x	.0x+	.00x+	.0x	.0x–	.00x	.00x–	.000x+	.000x+	0	0	.00x–	<.0002	0	0	(0)	<.0001	0	<.5	<10	<1	<20	.0001	2	<.001
825	D-84094	Navajo Point	do	x.–	.x	.x–	x.+	.0x+	.x+	.0x+	.0x–	.0x–	.0x	.00x	.00x–	.00x–	.000x+	0	0	.00x–	<.0002	0	0	(0)	<.0001	0	<.5	<10	<1	<20	.0001	2	<.001
831	D-84095	Warm Creek	do	x.–	.x	.x–	x.	.0x+	(.x)	.0x	.0x–	.0x+	.0x–	.00x	.00x–	.000x+	.000x+	0	0	.00x–	<.0002	0	0	(0)	<.0001	0	<.5	<10	<1	<20	.0001	2	<.001
834	D-84096	Garden ranch	do	x.–	.x–	.x	xx.	.x	x.–	.0x+	.00x+	.0x	.0x–	.00x+	.00x	.000x+	.000x+	0	0	.00x	<.0002	.000x+	0	(0)	<.0001	0	.5	<10	<1	<20	.0002	2	<.001
845	84115	Hanksville	162↑	x.–	.x–	.x–	xx.	.x	x.–	.x–	.0x–	.x–	.0x–	.00x+	0	.00x	.000x+	0	0	.00x–	0	.00x–	0	0	.000x–	0	----	----	----	----	----	1	.002
850	84116	Pine Creek	63↑	x.–	.x–	.x–	xx.	.x–	x.–	.0x+	.00x+	.0x+	.0x–	.0x–	0	.00x+	.000x+	0	0	.00x–	0	0	0	0	Tr.	0	----	----	----	----	----	1	.001
		New Mexico																															
359	56576	Beclabito dome	75↑	x.–	.x	.x	x.–	.x	x.–	.0x+	.0x–	.0x–	.0x	.00x+	.00x–	.00x	.000x+	.000x–	0	.000x+	<.0002	0	0	(.0000x–)	<.0001	0	<.5	8	----	16	.0004	2	.001
378	D-84055	Oak Creek	Top ledge	x.+	.x+	.x	x.–	.x+	x.–	.x–	.0x	.0x–	.0x+	.00x+	(.00x–)	.00x–	.00x+	0	0	.00x–	<.0002	(.000x–)	0	(0)	(.000x–)	(.000x–)	<.5	<10	----	<20	.0002	2	.001
377	D-84054	do	41↑	x.–	.x	.x	x.	.x	.x+	.0x+	.0x	.0x–	.0x	.00x+	(.00x–)	.00x–	.00x–	0	0	.00x–	<.0002	0	0	(.0000x)	<.0001	(.000x–)	.5	<10	<1	<20	.0001	2	.001
744	D-84084	Sanastee	33↑	x.–	.x	.x–	xx.	.x	.x+	.0x+	.0x–	.x–	.0x–	.0x–	.00x–	.00x–	.00x	0	0	.00x–	<.0002	.000x+	0	(0)	.000x–	0	<.5	<10	<1	<20	.0002	2	<.001
743	D-84083	do	Basal ledge	x.	.x	.x	x.+	.x+	x.–	.x–	.0x–	.0x	.0x+	.0x–	.00x–	.00x–	.000x+	(.000x–)	0	.00x–	<.0002	.000x+	0	(0)	<.0001	0	<.5	<10	----	<20	.0002	2	.002
854	D-84117	Beautiful Mountain	39↑	x.	.x	.x+	x.+	.x	x.–	.x–	.0x–	.0x	.0x	.0x–	.00x–	.00x+	.000x+	0	0	.00x–	Tr.	.000x+	0	0	.000x–	0	----	----	----	----	----	1	.002
		Arizona																															
300	D-84034	Sahtah Wash	Basal ledge	x.–	.x	.x	x.+	.x–	.x+	.0x+	.00x	.0x	.0x	.00x+	<.001	.0x–	.000x	0	0	.00x–	<.0002	0	0	(0)	<.0001	0	<.5	<10	<1	<20	.0010	2	.001
321	D-73027	Marsh Pass	60↑	x.–	.x	.0x+	.x–	.x	x.–	.0x+	.00x+	.00x	.0x	.00x	.00x	.000x+	.000x	0	0	.000x+	<.0002	0	.00x–	0	<.0001	0	<.5	<10	----	20	.0001	1	.001

[1] Samples furnished by R. A. Cadigan.