

GEOLOGICAL SURVEY

TABLE 27.—Analyses of sandstone from the Summerville, Cow Springs, Junction Creek, and Bluff formations

[Semi-quantitative spectrographic determinations made by the rapid visual-comparison method. Comparisons of similar data with those obtained by quantitative methods show that the assigned semi-quantitative class interval includes the quantitative value in about 60 percent of the determinations. Analysts: Spectrographic, (1) R. G. Havens, (2) P. R. Barnett; Colorimetric, J. W. Meadows and I. C. Frost; Radiometric, S. P. Furman and G. W. Boyes, Jr.]

Sample No. 1	Laboratory No.	Formation	Location	Analyst	Semi-quantitative spectrographic analyses																							Colorimetric analyses	Radiometric analyses							
					Al	Fe	Mg	Ca	Na	K	Tl	Zr	Mn	Ba	Sr	Li	Be	B	Sc	V	Cr	Co	Ni	Cu	Ga	Y	Ag	Sn	Yb	Pb	Se (ppm)	Percent eU				
L-296	D-81712	Bluff sandstone	Recapture Creek, Utah	2	x.-	0.x+	0.x	x.	0.x	x.-	0.0x+	0.0x-	0.00x+	0.0x	0.0x-	0	0	0.00x	0	0.00x-	0.000x+	0.000x-	0	0.00x-	Tr.	0.000x	0	0	—	0	—	0.002				
364	80400	do	Beclabito dome, New Mexico	1	.x+	.x-	.0x+	.x.	.0x	0	.0x+	.0x-	.0x-	.0x+	.000x+	0	0	.00x-	0	.00x-	.000x-	0	0	.00x-	0	0	0	0	0	0	0	0.001				
436	81713	do	Lonesome, Utah	2	.x+	.x-	.0x+	.x+	.0x+	.x+	.0x	.00x	.00x+	.0x-	.00x-	0	0	.00x-	0	.00x-	.000x-	0	0	.00x-	0	0	0	0	0	0	0	0	0.001			
287	81733	Junction Creek sandstone	Upper McElmo Canyon, Colo.	2	x.-	x.	.x-	x.	.0x+	x.-	.0x	.00x	.00x+	.0x-	.00x+	.0x	0	0	.00x-	0	.00x-	.000x+	.000x-	0	.00x-	0	0	0	0	0	0	<.5	0.001			
367	80401	do	Placerville, Colo.	1	x.-	.x	.x-	x.	.0x+	x.-	.0x	.00x	.00x+	.0x-	.00x+	.0x	0	0	.00x-	0	.00x-	.000x+	.000x-	0	.00x-	Tr.	.000x	0	0	0	0	0	0.001			
323	81698	Cow Springs sandstone	Marsh Pass, Ariz.	2	x.-	.x+	.x+	.x+	.0x+	x.-	.0x+	.00x+	.00x+	.0x-	.00x+	.0x	0	0	.00x-	0	.00x-	.000x-	.000x+	.00x	Tr.	.000x+	Tr.	0	0	0	0	0	0.002			
325	80399	do	Calamity Flats, Ariz.	1	x.-	.x+	.x	x.	—	x.-	.0x+	.00x+	.00x+	.0x-	.00x+	.0x	0	0	.00x-	0	.00x-	.000x-	.000x-	.000x+	.00x	Tr.	.000x+	Tr.	0	0	0	0	0	0.002		
723	81714	do	Mesa Gigante, N. Mex.	2	x.-	.x	.x-	.0x+	.x-	.x+	.0x+	.0x-	.00x+	.0x-	.00x+	.0x	0	0	Tr.	0	.00x-	.000x	.000x	0	.00x+	Tr.	.000x+	Tr.	0	0	0	0	0	0.002		
728	81699	do	Collette Creek, Utah	2	x.-	.x	.x-	x.	.x-	.x+	.0x+	.00x	.00x	.0x-	.00x	.0x	0	0	.00x-	0	.00x-	.000x	.000x	0	.00x+	Tr.	.000x+	Tr.	0	0	0	0	0	0.002		
755	81700	do	Longhouse Valley, Ariz.	2	x.-	.x	.x-	x.	.x-	.x	.0x-	.00x-	.00x+	.0x-	.00x	.0x	0	0	.00x-	0	.00x-	.000x+	.000x-	0	.00x-	Tr.	.000x+	Tr.	0	0	0	0	0	0.001		
765	81715	do	Fort Wingate, N. Mex.	2	x.-	.x+	.x	x.	.x-	x.	.0x+	.0x-	.0x-	.0x-	.00x-	.0x	0	0	.00x-	0	.00x-	.000x	.000x	0	.00x-	Tr.	.000x+	Tr.	0	0	0	0	0	0.001		
779	81701	do	Haystack Butte, N. Mex.	2	x.-	.x	.x-	x.	.x-	.x+	.0x+	.00x	.00x+	.0x-	.00x+	.0x	0	0	.00x-	0	.00x-	.000x	.000x	0	.00x-	Tr.	.000x+	Tr.	0	0	0	0	0	0.001		
129	80396	Summerville formation	Dry Creek anticline, Colorado	1	.x+	.x	.x-	x.	.x-	x.	.0x+	.0x-	.0x-	.0x	.00x+	0	0	.00x-	0	.00x-	.000x	.000x	0	.00x-	Tr.	.000x	Tr.	0	0	0	0	0	0	0.001		
230	81689	do	Eastern San Rafael Swell, Utah	2	.x	.x-	.0x+	xx.	.x-	.x+	.0x+	.0x-	.0x-	.0x	.00x	0	0	.00x-	0	.00x-	.000x	.000x	0	.00x-	Tr.	.000x	Tr.	0	0	0	0	0	0	0.001		
289	81690	do	McElmo Canyon, Colo.	2	x.-	.x	.0x+	xx.	.x-	.x+	.0x-	.00x	.0x-	.0x-	.00x+	0	0	0	0	.00x-	0	.00x-	.000x	.000x	0	.00x-	Tr.	.000x+	Tr.	0	0	0	0	0	0.001	
315	81691	do	Recapture Creek, Utah	2	x.-	.x	.x+	x.	.x-	x.	.0x	.00x	.0x-	.0x-	.0x	.0x	0	0	.00x	0	.00x	.000x	.000x	0	.00x-	Tr.	.000x	Tr.	0	0	0	0	0	0.001		
363	81692	do	Horseshoe Bend, Colo.	2	x.-	.x	.x+	.0x+	.x	x.-	.0x+	.00x+	.00x-	.0x-	.00x+	0	0	.00x-	0	.00x+	.000x+	.000x-	.000x	.000x	0	.00x-	Tr.	.000x	Tr.	0	0	0	0	0	0.001	
403	81693	do	Tidwell ranch, Utah	2	.x+	.x	x.-	x.	.x-	x.	.0x	.00x+	.0x-	.0x-	.0x-	0	0	.00x-	0	.00x-	.000x	.000x	.000x	.000x	0	.00x-	Tr.	.000x	Tr.	0	0	0	0	0	0.001	
435	81694	do	Montezuma Canyon, Utah	2	.x	.0x+	.x-	xx.	—	.x	.00x	.00x-	.x-	.0x-	.0x-	0	0	0	0	.00x-	0	.00x-	.000x	.000x	0	.00x-	Tr.	.000x	Tr.	0	0	0	0	0	0.001	
523	81695	do	Placerville, Colo.	2	.x+	.x	x.-	x.	—	.x+	.0x-	.00x+	.0x-	.0x-	.00x+	0	0	.00x-	0	.00x-	.000x	.000x	.000x	.000x	0	.00x-	Tr.	.000x	Tr.	0	0	0	0	0	0.002	
949	81696	do	Hart Draw, Utah	2	x.-	.x+	.x-	x.	—	x.-	.0x+	.00x	.0x-	.00x+	.0x-	.0x-	0	0	.00x-	0	.00x-	.000x	.000x	.000x	.000x	0	.00x-	Tr.	.000x	Tr.	0	0	0	0	0	0.001
968	81697	do	Last Chance, Utah	2	.x+	.x	.x	.x	—	.x+	.0x-	.00x	.00x+	.0x-	.00x-	0	0	.00x-	0	.00x-	.000x	.000x	.000x	.000x	.000x	0	.00x-	Tr.	.000x	Tr.	0	0	0	0	0	0.001

1 Samples furnished by R. A. Cadigan.