TABLE 34.—*Analyses of mudstone from the Brushy Basin 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. Analysts: Spectrographic, R. G. Havens and N. M. Conklin; Colorimetric, J. H. McCarthy and J. L. Siverly; Radiometric, J. W. Patton, S. P. Furman, J. L. McGurk, and Wayne Mountjoy]

Sample No.	Laboratory No.	Brief description	Semiquantitative spectrographic analyses																										Colorimetric analyses	Radiometric analyses
			Al	Fe	Mg	Ca	Na	K	Ti	Zr	Mn	Ba	Sr	Li	Be	B	Sc	V	Cr	Co	Ni	Cu	Ga	Y	Mo	La	Yb	Pb	Se (ppm)	Percent eU
Samples from drill core, hole 1, Spring Creek Mesa, Colo.																														
WLN–17–5	D–89351	Light green, bentonitic	x.	0.x+	0.x+	0.x+	0.x–	x.–	0.x–	0.0x–	0.0x–	0.0x–	0.0x–	0.0x–	0	0.00x	0.000x+	0.00x	0.00x	0.000x	0.000x+	0.00x+	0.000x+	0.00x–	0	0	0.000x–	0.00x–	----	0.002
19–53	89353	do	x.+	x.–	.x+	.x+	.x	x.–	.x	.0x–	.0x–	.0x	.0x–	.0x–	.000x–	.00x+	.00x–	.00x+	.00x	.000x+	.00x–	.00x	.000x+	.00x	0	.00x+	.000x	.00x–	----	.002
21–53	89355	do	x.+	x.–	.x+	.x+	.x	x.–	.x	.0x–	.0x–	.0x–	.0x–	.0x–	.000x–	.00x+	.00x–	.00x+	.00x	.00x–	.00x–	.00x	.000x+	.00x	0	.00x	.000x	.00x–	----	.002
23–53	89357	Light green	x.+	x.–	.x+	.x	.x	x.–	.x	.0x–	.00x+	.0x–	.0x–	.0x–	.000x–	.00x	.00x–	.00x+	.00x	.000x+	.00x–	.00x	.00x–	.00x	0	.00x+	.000x	.00x–	----	.001
24–53	89358	Reddish brown	x.+	x.–	x.–	.x+	.x	x.–	.x	.0x–	.0x–	.0x	.0x–	.0x	.000x–	.00x	.000x+	.00x	.00x	.000x+	.00x+	.00x+	.00x–	.00x	0	.00x	.000x	.00x–	----	.002
26–53	89360	Light brown	x.+	x.–	x.–	.x+	.x	x.–	.x	.0x–	.0x–	.0x–	.x	.0x–	0	.00x–	.000x+	.00x	.00x–	.000x	.000x+	.00x–	.00x–	.00x	0	.00x+	.000x	.00x–	----	.001
27–53	89361	White, bentonitic	x.+	x.–	x.	.x+	.x+	.x+	.x–	.0x–	.0x–	.0x+	.0x–	.000x–	.00x–	.000x+	.00x+	.00x+	.000x+	.000x	.000x	.00x	.00x	.00x	0	.00x+	.000x	.00x–	----	.002
28–53	89362	Pale green, bentonitic	x.	x.–	x.–	x.	.x	x.–	.x–	.0x–	.0x+	.x–	.0x	.0x–	.000x–	.00x–	.000x+	.00x+	.00x	.000x	.000x+	.00x–	.00x–	.00x–	0	0	.000x	Tr.	----	<.001
30–53	89364	Pale green	x.+	x.–	x.	x.–	.x+	x.–	.x	.0x–	.0x	.0x+	.0x+	0	.000x–	.00x	.00x–	.00x+	.00x	.000x+	.00x–	.00x–	.00x–	.00x	—	.00x+	.000x	.00x–	----	.001
31–53	89365	do	x.+	x.–	x.–	x.–	.x+	x.–	.x	.0x–	.0x	.0x+	.0x+	0	0	.00x	.00x–	.00x+	.00x–	.000x+	.00x–	.00x–	.000x+	.00x	0	.00x	.000x	Tr.	----	.003
32–53	89366	do	x.+	x.–	x.–	x.–	.x+	x.–	.x	.0x–	.0x	.0x+	.0x+	0	0	.00x	.00x–	.00x+	.00x	.000x+	.00x–	.00x	.000x+	.00x	—	.00x	.000x	Tr.	----	.001
33–53	89367	Pale green, bentonitic	x.+	x.–	x.–	x.+	.x+	x.	.x–	.0x–	.0x+	.0x–	.0x+	0	0	.00x–	.000x+	.00x+	.00x–	.00x	.000x+	.00x+	.00x–	.00x	0	Tr.	.000x	Tr.	----	.001
37–53	89371	Reddish brown	x.	x.–	x.–	x.	x.–	x.–	.x–	.0x	.x–	.0x+	.0x	0	0	.00x	.000x+	.00x	.00x–	.00x	.000x	.00x–	.000x+	.00x	0	0	.000x	.00x–	----	.001
40–53	89374	Light green, bentonitic	x.+	x.–	x.–	.x	x.–	x.	.x	.0x–	.0x–	.0x–	.0x+	0	.000x–	.00x–	.00x–	.00x+	.00x–	.00x+	.000x	.00x–	.00x	.00x	0	.00x	.000x	.00x	----	.002
42–53	89376	do	x.+	x.–	x.–	x.	.x+	x.	.x	.0x–	.0x	.0x–	.0x+	0	.000x–	.00x–	.000x+	.00x	.00x–	.00x+	.000x+	.00x–	.00x–	.00x	0	.00x	.000x	.00x–	----	.002
44–53	89379	Reddish brown	x.	x.–	.x+	x.+	.x+	x.	.x–	.0x–	.x–	.0x–	.0x–	0	0	.00x	.000x	.00x+	.00x	.000x+	.00x–	.00x–	.000x+	.00x	0	0	.000x	Tr.	----	.001
47–53	89381	do	x.+	x.	x.–	.x	.x	x.	.x	.0x	.0x–	.0x	.0x–	0	.000x–	.00x+	.00x–	.00x+	.00x–	.000x+	.00x–	.00x	.00x–	.00x	0	0	.000x	.00x–	----	.003
48–53	89382	Pale green	x.+	x.–	.x+	x.+	.x	x.	.x–	.0x–	.0x	.0x	.0x–	.0x–	0	.00x	.000x+	.00x+	.00x	.000x	.000x+	.00x	.000x+	.00x–	0	0	.000x–	Tr.	----	.001
50–53	89384	Reddish brown	x.+	x.	.x+	.x	.x	x.–	.x	.0x–	.0x–	.0x	.0x–	.0x+	.000x–	.00x+	.000x+	.00x+	.00x	.000x+	.00x–	.00x+	.00x–	.00x–	0	0	.000x	.00x–	----	.003
51–53	89385	Light green, bentonitic	x.+	x.–	.x+	.x–	.x	x.–	.x	.0x–	.00x+	.0x	.0x–	.0x+	0	.00x+	.000x+	.00x+	.00x	.000x+	.00x–	.00x	.00x–	.00x–	0	0	.000x	Tr.	----	.004
Samples from outcrop near Cactus Rat mine, Yellow Cat district, Utah																														
AM–1–53	D–88093	Gray green	x.	x.–	x.–	x.+	0.x	x.–	0.x–	0.0x–	0.0x+	0.00x+	0.0x–	0.0x–	0	0.00x+	0.000x+	0.00x	0.00x	0.00x–	0.00x–	0.00x+	0.00x–	0.00x–	0	0	0.000x–	0.000x+	<2	0.004
2–53	88094	Maroon purple	xx.	x.	x.	.x	.x	x.–	.x	.0x–	.0x–	.0x–	.0x–	0	Tr.	.00x+	.00x–	.00x+	.00x+	.000x+	.00x–	.00x	.00x–	.00x–	0	0	.000x–	Tr.	<2	.003
4–53	88096	Reddish brown	xx.	x.	.x+	.0x	.x	x.–	.x	.0x–	.0x	.00x+	.0x–	.0x–	0	.00x+	.000x+	.0x–	.00x	.000x+	.000x+	.00x	.00x–	.00x–	Tr.	0	.000x	.00x–	<2	.002
5–53	88097	Green	xx.	x.	x.–	.x	.x+	x.–	.x	.0x–	.0x–	.0x–	.0x	Tr.	.000x	.00x	.00x–	.00x	.00x	.000x+	.00x–	.00x–	.00x–	.00x+	0	.00x+	.000x	.000x+	5	.002
6–53	88098	Light green, bentonitic	xx.	x.	x.	.x+	x.–	x.–	.x	.0x–	.00x+	.0x–	.0x	0	.000x–	.00x	.00x–	.00x	.00x–	.000x+	.000x+	.00x–	.00x–	.00x+	0	.00x+	.000x	.00x–	10	.001
7–53	88099	Pale green, bentonitic	xx.	x.	x.	.x+	.x+	x.–	.x	.0x–	.00x+	.0x–	.0x–	Tr.	Tr.	.00x	.00x–	.00x	.00x–	.000x+	.00x	.00x	.00x–	.00x+	0	.00x+	.000x+	.000x+	8	.001
8–53	88100	Green, bentonitic	xx.	x.	x.	.x	.x+	x.–	.x	.0x–	.0x–	.0x–	.0x–	Tr.	.000x–	.00x	.00x–	.0x	.00x	.00x–	.00x–	.00x–	.00x–	.00x+	0	.00x+	.000x	Tr.	5	.001
11–53	88103	Pale green, bentonitic	xx.	x.–	x.	.x	.x+	x.–	.x	.0x–	.0x–	.0x–	.0x	0	.000x–	.00x+	.00x–	.0x–	.00x	.000x+	.00x–	.00x–	.00x	.00x+	0	.00x+	.000x	.00x+	<2	.004