TABLE 14.—*Semiquantitative spectrographic and radiometric analyses of samples from mineral deposits in the Ute Mountains area, Montezuma County, Colo.*

[See table 5 for code. Analysts, spectrographic: 1, R. G. Havens; 2, G. W. Boyes, Jr.; 3, N. M. Conklin; 4, P. R. Barnett; radiometric: 1, C. G. Angelo; 2, J. W. Patton; 3, D. L. Schafer, H. H. Lipp, J. E. Wilson. Sample numbers with prefix EMS were collected by E. M. Shoemaker; prefix L, by R. A. Cadigan. Values in italic are greater than background values of barren rock in the same formation. Tr., trace; ——, not detected; (*), not determined]

Sample No.		Prospect	Rock type	Analyst	Semiquantitative spectrographic analyses																												Radiometric analyses	
Field	Laboratory				Si	Al	Fe	Mg	Ca	Na	K	Ti	Mn	Ag	As	Ba	B	Be	Co	Cr	Cu	Ga	La	Li	Mo	Nb	Ni	Pb	Sc	Sr	V	Y	Yb	Zn	Zr	Sb	Sn	Analyst	eU_3O_8 (percent)
		Uranium prospects, fault controlled																																		
55–E–26B	238257	Cliff House	Leached limestone	1	X+	X	*XX*	0.X–	0.X	0.X–	X	0.X–	*0.X+*	*0.000X–*	*X–*	*X*			*0.00X*	0.000X	0.0X+	<0.001			Tr.		0.00X–	*0.00X*	0.00X–	0.0X+	0.0X	0.00X–	<0.001	0.0X+	0.00X			1	0.002
EMS–9–53	D–88145	do	Navajo Sandstone	2	XX	X	X–	.X	.X+	.0X+	.X+	.X–	.00X+		X–	>1	0.00X			.00X+	.00X+	.00X			0.0X+		.000X+	.00X–	.00X	.0X+	Tr.				.0X	*0.0X*		2	*.019*
EMS–8–53	D–88144	Cliff House No. 2	Sandstone in the Summerville	2	XX	.X	.X+	.0X+	.0X+			.0X–	.0X–		.X	.0X+			*.00X*		*.0X–*				*.00X–*		*.00X+*	*.X+*		.0X+	Tr.			*.0X+*	.00X			2	*.002*
EMS–5–53	D–88140	Cliff House No. 4	do	2	XX	.X	X+	.0X+	.X–			.0X	.0X–	*Tr.*	X	.X–			*.00X–*		.00X+				*.00X–*		*.00X*	*.0X+*		.00X+	Tr.			*.0X+*	.00X			2	*.018*
EMS–5A–53	D–88141	do	do	2	XX	.X	.X+	.0X	.0X+		Tr.	.0X	.00X		*.X–*	.X–				Tr.	.00X+						.0X		.00X	Tr.				.00X+			2	*.004*
EMS–6–53	D–88142	do	do	2	XX	.X	.X+	.0X+	.0X+			.0X	*.X–*	*.000X+*							.X+									.000X+	Tr.				.00X+			2	*.003*
EMS–7–53	D–88143	do	do	3	XX	.X+	*X*	.0X–	.0X	Tr.		.0X	.00X–							.000X–	.00X				0.00X–	.000X+	*.00X–*	.00X–	.00X–	.00X	Tr.				.0X–			3	*.049*
55–E–5	229457	Three States Natural Gas	Entrada Sandstone	3	XX	.X+	.0X+	.0X	.0X–			.0X	.000X+							.000X–	.000X+							*.0X–*		.00X–	Tr.				.00X+			3	*.088*
55–E–6	229458	do	do	3	XX	.X+	*.X–*	.0X–	.00X+			.0X–	.000X+							.000X–	.00X–							*.00X+*		.00X–					.00X+			3	*.021*
55–E–7	229459	do	do																																			
		Uranium prospects, bedded																																		
55–E–8	229460	Coffin's Prospect	do	3	XX	X–	.0X+	.X–	X–	.0X+	X–	.0X+	.0X–			.0X	.00X			.000X	*.X–*							.00X	*.X*	*Tr.*	*<.004*		.0X–			3	*.004*
55–E–9	229461	do	do	3	XX	X	*.X–*	.X+	.X+	.0X+	X–	.0X+	.0X+			.0X	.00X			.000X	*.X*							.00X	*.X+*	*.00X–*	*<.004*		.0X–			3	*.008*
EMS–15–53	D–88151	Karla Kay mine	Conglomerate of Early Cretaceous age.	2	XX	X+	*X*	.0X+	.X	.X	X–	.X	.0X+			*.X*	.00X+	Tr.	.000X+	*.00X–*	.00X	.00X–			*.00X*		.000X+	*.00X*	*.0X–*	.0X–	*.0X*	*.00X*			.0X–			2	*.018*
EMS–16–53	D–88152	do	do	2	XX	X+	*X–*	.X+	.X	.X	.X+	.X–	.0X+			>1	.00X	Tr.	*.00X–*	*.00X–*	.00X	Tr.			*.00X–*		.000X–	*.00X*	*.000X+*	.0X+	*.X–*	*.0X–*			.0X–			2	*.064*
		Copper prospects																																		
EMS–10–53	———	Battle Rock mine	Junction Creek Sandstone oxidized.	2	XX	X–	*X*	.X	.X–	.X–	Tr.	.0X	.0X–	*.000X+*		>1			*.00X–*	*.00X–*	*X–*				*.00X+*		.000X–	*.0X*		.X–	*.0X–*			*.X*	.00X+			2	.002
EMS–11–53	———	do	Vein minerals	2	X	.X+	*X*	.X	X	Tr.	0	.0X	*.X–*	*.000X–*		>1			*.00X*	.000X+	.0X				*.00X*		.000X+	*.00X*		.X+	*.0X*				.00X+			2	*<.001*
56–E–157	251976	do	Barite with iron oxides	3	X	.X–	.X+	.005	.0X	.0X+		.0X–	.00X+	*.000X+*		XX				.000X+	.00X–							.0X	.0X–	.00X–								2	*<.001*	(*)
EMS–12–53	D–88148	Dike prospects	Altered diorite porphyry	2	XX	XX	X	.0X+	.0X+	.0X+	.X+	.X	.X–						.000X–	.000X+	*X*	.00X–		*.0X+*	.000X+		Tr.		.0X	.0X–	Tr.				.0X–			2	*<.001*
EMS–13–53	D–88149	do	Mineralized diorite porphyry	2	XX	XX	X	.X	.X+	.X+	X–	.X	.X–						.00X–	.00X–	.0X+	.00X–		*.0X*	.00X–		.00X	Tr.	.000X+	.0X	.00X+	.00X–				.00X+			2	*.001*
EMS–14–53	D–88150	do	Barren diorite porphyry	2	XX	XX	X+	X	X–	X–	X–	.X	.X–						.00X	.000X+	.00X	Tr.			<.001		.00X		.000X+	.0X	.00X+	.00X	.000X		.00X		<0.002		
56–E–179–3	251983	Little Maude mine	Vein sulfides in Mancos Shale	3	XX	X	X+	.X–	XX	.0X+		.0X–	.00X+																									(*)
		Barren sandstone																																		
L–139 [1]	D–80397	Summerville Draw, Utah	Conglomerate of Early Cretaceous age.	4	XX	.X+	.X	.X	.X			.X–	.00X–			.0X	.00X–		.000X–	.000X+	.00X					Tr.				.00X	.00X–	.000X+	.000X–		.0X			4	<.001
56–E–16	244746	Southern Ute Mountains	Junction Creek Sandstone	3	XX	.X–	.X	.X–	.X	.0X+	X–	.0X+	.0X+			.0X	Tr.		.000X+	.000X+	.00X–	Tr.					.000X+	.00X–		.0X–	.00X			Tr.	.0X–			1	<.001
L–289	D–81690	McElmo Canyon	Summerville Formation		XX	X–	.X	.X+	X	.X–	X–	.0X	.0X			.X–	.00X		.000X	.00X	.000X	Tr.		.0X	.000X		.000X			.00X	.000X	.000X–			.00X			4	<.001
L–199	D–81736	Lower McElmo Canyon	Entrada Sandstone	4	XX	.X+	.X	.X+	.X+	.0X+	.X+	.0X	.0X			.0X	.00X–		.000X–	.000X	.000X+	Tr.					.000X			.00X+	.00X–				.0X–			4	.002
L–227	D–81707	Upper McElmo Canyon	Navajo Sandstone	4	XX	.X+	.0X+	.0X	X	.0X–		.0X	.0X–			.0X	.00X–		.000X	.000X	.000X+									.00X–	.00X–				.00X			4	.001

[1] Sample of the Buckhorn Conglomerate of Stokes (1944). This unit is very similar to the Karla Kay Conglomerate Member.