

TABLE 30.—AVERAGE BULK COMPOSITIONS OF SANDY CREEK GABBRO  
AND ASSOCIATED QUARTZ-BEARING BIOTITE GABBRO  
(Microprobe analyses in weight %)

	1	2	3	4	5	6	7	8	9
SiO <sub>2</sub>	47.5	46.6	47.8	53.9	49.0	44.7	47.6	56.5	55.2
TiO <sub>2</sub>	1.39	1.91	1.76	2.74	2.60	5.02	4.99	2.89	3.34
Al <sub>2</sub> O <sub>3</sub>	16.1	14.2	16.0	14.7	17.8	13.5	12.7	14.1	13.0
FeO*	9.81	13.7	12.1	11.6	11.1	16.5	15.6	11.5	12.8
MgO	11.9	13.1	11.3	6.11	5.13	6.49	6.06	4.36	4.09
CaO	10.5	7.96	9.43	7.73	11.2	10.5	9.66	6.89	7.47
Na <sub>2</sub> O	1.82	1.85	1.60	2.51	2.28	2.04	2.11	2.53	2.46
K <sub>2</sub> O	0.25	0.40	0.25	1.04	0.36	0.48	0.53	1.54	1.50
P <sub>2</sub> O <sub>5</sub>	0.17	0.21	0.14	0.31	0.56	0.21	0.28	0.26	0.37
S	n.d	0.04	n.d	n.d	0.06	0.07	0.05	n.d	n.d
Total	99.44	99.97	100.38	100.64	100.09	99.51	99.58	100.57	100.23
Atomic									
Fe/(Fe+Mg)	0.317	0.370	0.375	0.516	0.547	0.587	0.592	0.596	0.638

\*Total Fe expressed as FeO. (Samples were prepared using the method described by Brown, 1977).

Samples:

1. Sandy Creek Gabbro, olivine-bearing, NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 9, T.3N., R.15W., Comanche County (WM-152).
2. Sandy Creek Gabbro, olivine-bearing, SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 4, T.3N., R.15W., Comanche County (WM-309).
3. Sandy Creek Gabbro, olivine-bearing, SE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 33, T.4N., R.15W., Comanche County (WM-337).
4. Quartz-bearing biotite gabbro, SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 21, T.4N., R.15W., Comanche County (WM-330).
5. Sandy Creek Gabbro, quartz-bearing, NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 4, T.3N., R.15W., Comanche County (WM-306).
6. Sandy Creek Gabbro with neither olivine nor quartz, SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 3, T.3N., R.15W., Comanche County (WM-359).
7. Sandy Creek Gabbro with quartz and K-feldspar (granophyre in mesostasis), SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 3, T.3N., R.15W., Comanche County (WM-360).
8. Quartz-rich biotite gabbro-diorite, NW $\frac{1}{4}$  sec. 29, T.4N., R.15W., Comanche County (WM-363).
9. Sandy Creek Gabbro, quartz-bearing, SE $\frac{1}{4}$  sec. 33, T.4N., R.15W., Comanche County (WM-323).

TABLE 31.—ANALYSES OF HALE SPRING PEGMATITES  
(Uranium prospect 21 of Al-Shaieb and others, 1980)

Sample #/ppm	U <sub>3</sub> O <sub>8</sub>	Ti	V	Mn	Cu	Zn	Li	Ba	Sr	Y	Zr	Nb
118	54	167	80	370	5	356	16	110	50	149	12277(?)	226
119	138	1400	50	350	3	358	54	70	70	323	6865	335
120	45	188	85	180	2	209	261	10	30	127	5417	136
201	60	2800	15	129	43	136	18	120	20	110	4100	189

118, 119, 120 are west of Highway 49, SE NE NW-9-T3N-R15W.

201 is east of Highway at main pegmatite dike (#1 of Johnson), SW NW NE-9-T3N-R15W.  
(Note: locations of these samples are listed incorrectly in the original report.)