



TABLE 1. POTASSIUM-ARGON AGE DETERMINATIONS  
Sample localities are shown on map as Δ

Sample No.	Field No.	Mineral	Latitude and longitude	Unit and rock type	K <sub>2</sub> O (percent)	Ar <sup>40</sup> /K <sup>39</sup> (10 <sup>-6</sup> mole/gm)	Ar <sup>40</sup> /K <sup>39</sup> total	Age (millions of years)
1	66APl29	Biotite	67°07' N. 159°46' W.	Knc (tuff)	avg. 7.05	8.876	0.94	83.4±2.2
2	66AM110	Biotite	66°13' N. 159°42' W.	Knc (epidiotite syenite)	avg. 9.25	15.02	0.84	107±2.8
3	66AM128	Biotite	66°11' N. 160°38' W.	Km (metapelite)	avg. 8.38	13.96	0.92	110±3.0

Potassium analyses: Lott B. Scholker, U.S. Geological Survey, 1967.  
Argon analyses and age calculation: M. A. Lanphere and J. C. Van Eosen  
[Constants:  $R^{40}K = 1.19 \times 10^{-10}$  atom percent;  $K^{40} = 0.885 \times 10^{-10}$  year<sup>-1</sup>;  $K^{39} = 4.72 \times 10^{-10}$  year<sup>-1</sup>]

TABLE 2. MINERALOGICAL COMPOSITION (IN PERCENT) OF 8 TYPICAL CRETACEOUS SEDIMENTARY ROCK SAMPLES

Sample No.	66APl29	66APl31	66AM107	66APl38	66APl39	66APl40	66AM136A	66AM137
Unit	Knc	Knc	Knc	Knc	Knc	Knc	Knc	Knc
Quartz	42	9	3	1	16	3	8	3
Clay	< 1	2	7	0	0	< 1	1	< 1
Feldspar	2	13	9	34	11	9	3	6
Volcanic	0	20	34	7	2	17	< 1	1
Sedimentary	0	1	1	0	< 1	< 1	0	0
Metamorphic (except carbonate)	12	< 1	1	0	15	0	3	1
Plutonic	0	31	10	< 1	1	21	0	0
Mica	3	0	< 1	15	2	0	3	4
Carbonate (including detrital fragments)	40	< 1	0	0	38	45	80	80
Amorphous material (<0.05 mm)	2	38	38	43	14	5	0	1
Miscellaneous	< 1	0	< 1	0	< 1	3	< 1	< 1

<sup>1</sup>Chiefly plagioclase  
<sup>2</sup>Chiefly heavy minerals

TABLE 3. SEMIQUANTITATIVE SPECTROGRAPHIC ANALYSES FOR TEN ELEMENTS PLUS QUANTITATIVE ATOMIC ADSORPTION ANALYSES FOR GOLD FROM STREAM SEDIMENT SAMPLES

Locality No.	Semi-quantitative spectrographic analysis (Reported in parts per million*)										Quantitative atomic absorption analysis (Reported in parts per million)
	Be	Cu	Mo	Pb	Nb	Sn	P	Pr	Nd	Sm	
1	1.5	50	0	15	15	0	0	0	0	0	0.1
2	1.5	50	0	15	15	0	0	0	0	0	0.1
3	1.5	50	0	15	15	0	0	0	0	0	0.2
4	1.5	50	0	15	15	0	0	0	0	0	0.1
5	1.5	50	0	15	15	0	0	0	0	0	0.1
6	1.5	50	0	15	15	0	0	0	0	0	0.1
7	1.5	50	0	15	15	0	0	0	0	0	0.1
8	1.5	50	0	15	15	0	0	0	0	0	0.1
9	1.5	50	0	15	15	0	0	0	0	0	0.1
10	1.5	50	0	15	15	0	0	0	0	0	0.1

Semi-quantitative spectrographic analysis by Chris Heropoulos, U.S. Geol. Survey, 1967.  
Quantitative atomic absorption analysis by R. Martinez, U.S. Geol. Survey, 1969.  
\*Semi-quantitative spectrographic analyses are reported in parts per million to the nearest number in the series 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100, 150, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000, 8000, 9000, 10000, 15000, 20000, 30000, 40000, 50000, 60000, 70000, 80000, 90000, 100000, 150000, 200000, 300000, 400000, 500000, 600000, 700000, 800000, 900000, 1000000, 1500000, 2000000, 3000000, 4000000, 5000000, 6000000, 7000000, 8000000, 9000000, 10000000, 15000000, 20000000, 30000000, 40000000, 50000000, 60000000, 70000000, 80000000, 90000000, 100000000, 150000000, 200000000, 300000000, 400000000, 500000000, 600000000, 700000000, 800000000, 900000000, 1000000000, 1500000000, 2000000000, 3000000000, 4000000000, 5000000000, 6000000000, 7000000000, 8000000000, 9000000000, 10000000000, 15000000000, 20000000000, 30000000000, 40000000000, 50000000000, 60000000000, 70000000000, 80000000000, 90000000000, 100000000000, 150000000000, 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