GEOLOGIC

GEOLOGIC AN

GENERAL LEGEND
HESS RIVER AREA

CENOZOIC
QUATERNARY
Pleistocene (?)

17	17a	Brown and red, limonite cemented conglomerate, plant remains, slide material debris.
	17b	Rusty calcareous seepages, varying amounts of enclosed clastic material; hot-spring deposits, travertine or calcareous tufa.

.....disconformity .....

TERTIARY
Eocene (?)

16	16a	Gabbro and diorite; medium-grained sills and dikes; includes outpourings of dacitic porphyry and crystalline equivalents (?).

....intrusive and/or unconformable contacts .....

Paleocene (?)

15	15a	Granodiorite; medium-grained granitoid rocks, varying amounts of biotite and hornblend, minor augite.
	15b	Quartz-monzonite; medium to coarse-grained plutonic rocks; biotite and minor hornblende.
	15c	Orthoclase porphyry; medium to coarse-grained plutonic rocks; granitic to syenitic.
	15d	Grey augite-hornblende diorite; fine to medium-grained, plutonic and dike equivalents.
	15e	Quartz-muscovite porphyry "Aplite"; dikes and sills.

.....intrusive contact .....

14	14a	Sandstone, shale and conglomerate with Paleocene (?) plant remains and granitic pebbles (May post-date unit 15)

..... disconformable contact .....

MESOZOIC
CRETACEOUS

13	13a	Quartz-mica and chloritic schists; blocky "Keno-Hill Quartzite" in upper parts (Units 2 & 3, Bostock; 1947)

.....faulted or unconformable contact .....

PALEOZOIC
PERMO-TRIASSIC (?)

12	12a	Basic to intermediate volcanics; vesicular in parts.
	12b	Tuff, limestone, quartzite and slate (Anvil Group; Campbell, 1966), Includes Units 7, 9 &10 of Roddick, 1967, sandstone and shale, quartz sericite and graphitic schists and minor chert pebble conglomerate.

CARBONIFEROUS
Mississippian (?)

11	11a	Quartzite, interbedded with grey slate
	11b	Grey-green phyllite and silty phyllite.
10	10a	Graphitic argillite, slate and cherty carbonaceous or pyritic argillite and grey bedded chart.
	10b	Limestone
	10c	Grey phyllite
	10d	Quartzite
	10e	Light grey chert
9	9a	Thin-bedded chert, argillite, quartzite and minor limestone.
8	8a	Kalzas Formation: limestone, minor argillite, limy argillite and chert.
7	7a	Chert, chert breccia and chert pebble conglomerate.

Devonian

6	6a	Green to grey slate and argillite
	6b	Buff to grey thickly bedded dolomite, sandy and silty plus some white quartzite.

..... unconformity .....

Cambrian

5	5a	Buff and grey weathering phyloites, silty limestones and siltstones

.....great unconformity .....

PRECAMBRIAN
PROTEROZOIC

4	4a	Greenstone, chlorite-mica-quartzschist.
3	3a	Red, green and grey slate, minor quartzite and limestone.
2	2a	Quartzite with intraformational quartz pebble conglomerate, feldspathic quartzite, quartz-sericite schist & phyllite (Units 6 & 7, Bostock)
	2b	Limestone
1	1a	Mayo Group: Schist, quartzite (Bostock, Units 1, 4 & 5).

001071