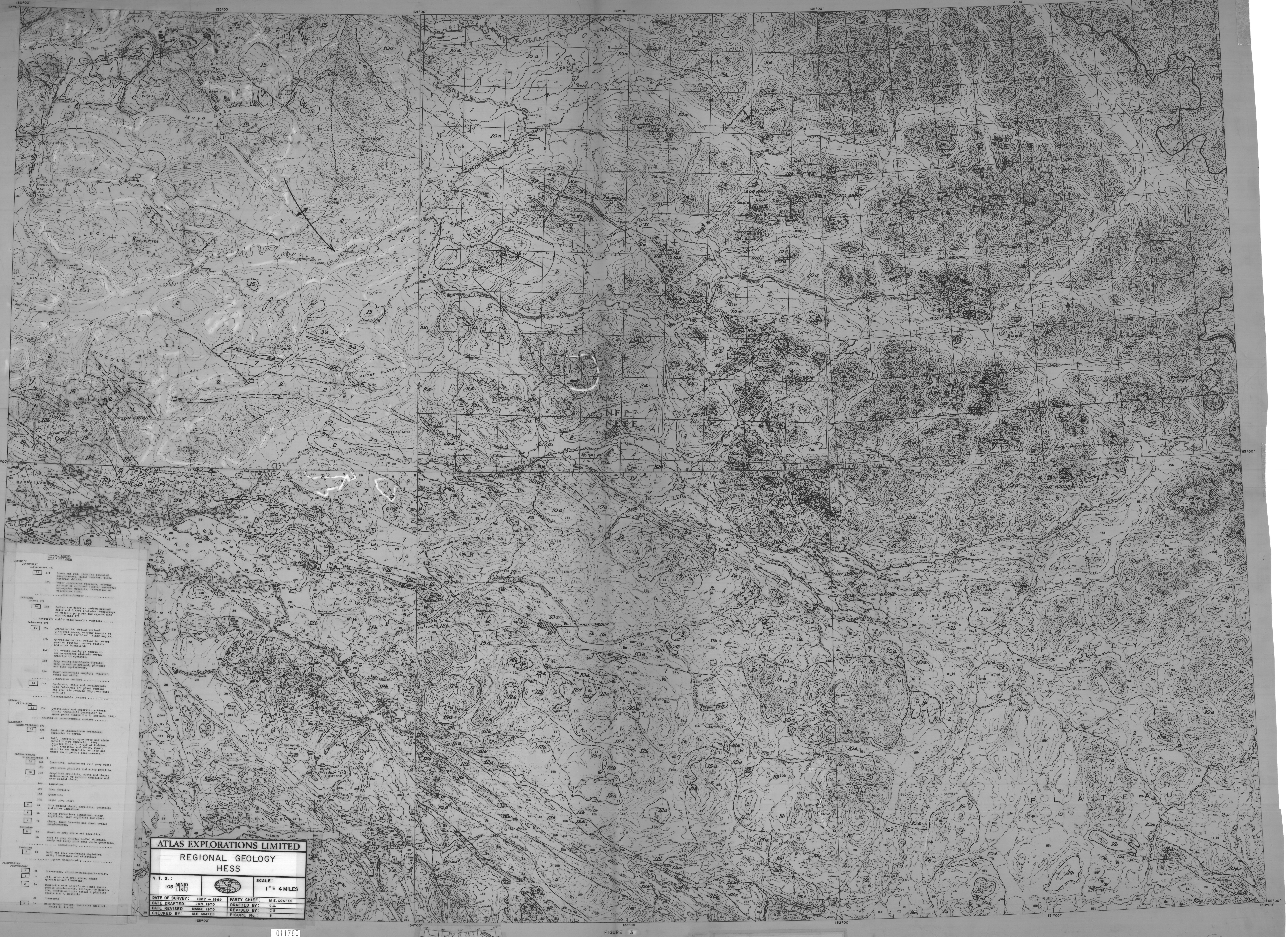

GENERAL LEGEND
HESS RIVER AREA

CENOZOIC
QUATERNARY
Pleistocene (?)

Unit	Subunit	Description
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 (?)

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

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

Paleocene (?)

Unit	Subunit	Description
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.
	15c	Quartz-muscovite porphyry "Aplite"; dikes and sills.

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

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

.... disconformable contact ....

MESOZOIC
CRETACEOUS

Unit	Subunit	Description
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 (?)

Unit	Subunit	Description
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 (?)

Unit	Subunit	Description
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

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

.... unconformity ....

Cambrian

Unit	Subunit	Description
5	5a	Buff and grey weathering phyloites, silty limestones and siltstones

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

PRECAMBRIAN
PROTEROZOIC

Unit	Subunit	Description
4	4a	Greenstone, chlorite-mica-quartz schist.
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).

ATLAS EXPLORATIONS LIMITED

REGIONAL GEOLOGY
HESS

N. T. S.: 105 · M N O / L K J	SCALE: 1" = 4 MILES
DATE OF SURVEY: 1967 → 1969	PARTY CHIEF: M.E. COATES
DATE DRAFTED: JAN. 1970	DRAFTED BY: C.G.
DATE REVISED MARCH 1970	REVISED BY: C.G.
CHECKED BY: M.E. COATES	FIGURE No.: 3

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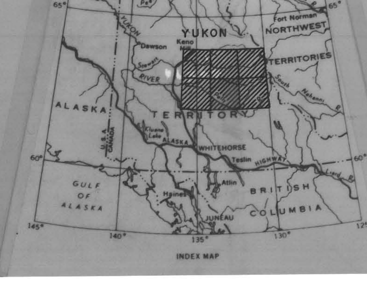

FIGURE 3
HESS DISTRICT, YUKON

REGIONAL GEOLOGY

N.T.S 105 · M N O / L K J

SCALE: 1" = 4 miles

LEGEND

Road (dry weather)	============
Horizontal control point	5418 △
Intermittent stream	
Marsh	
Contours (interval 500 feet)	5000
Height in feet above mean sea-level	462

Approximate magnetic declination, 34° 00' East