



- LEGEND**
- Mineral deposit, placer
 - ▲ Mineral deposit, lode
 - ▨ Coal deposit
 - ▧ Oil lease
 - Gas show
 - ✕ Gravel pit
 - △ Other
 - ③ Identification in quadrangle

EXPLANATION

UNCONSOLIDATED DEPOSITS			
Qal	Qcl	Qsw	Qta
Alluvium	Colluvium	Swamp deposits	Talus
Qoa	Qsa	Qf	Qlf
Older alluvium	Silt, undifferentiated	Windblown silt	Lake sediments
Qsp	Qmp		
Terrace sand and gravels	Morainal complex		
Qhg			
High level gravels			

SEDIMENTARY ROCKS		IGNEOUS AND METAMORPHIC ROCKS	
Qcs	Qco	Tv	
Conglomeratic sandstone	Quartzite	Volcanics	
		Ga	M
		Granitics	Mafic rocks, locally contains schist
		Uk	Ultramafic

UNCONFORMITY	
Pgsa	
Schist, phyllite, gneiss, locally contains hornfels	

CONTACTS AND FAULTS

- Contact (Locally gradational and approximately located.)
- - - Fault (Dashed where approximately located; queried where doubtful; dotted where concealed.)

PROPOSED TRANS-ALASKA PIPELINE ROUTE
Approximately located. Data supplied by Alyeska Pipeline Service Company, December 1970, or earlier.

Geology by Reuben Kachadoorian, 1969 and 1970. Bedrock geology by W. W. Patton, Jr., 1967; W. W. Patton, Jr., and T. F. Miller, 1968 and 1970.

Base from U. S. Geological Survey 1:250,000 series, 1956

FIGURE 4. - Preliminary engineering geologic maps of the proposed Trans-Alaska Pipeline route, Bettles and Beaver Quadrangles.