TERRAIN OVERVIEW ALONG ALCAN PIPELINE ROUTE

SUMMARY

A terrain overview of the Alcan Pipeline route across the Yukon Territory is presented in a series of seven maps at a reconnaissance scale of one inch to four miles. The work is intended to be an inventory of the main features known about the route. The seven maps along with this front "page" constitute the entire report. Members of the Geo-analysis Ltd. project team are given below.

The terrain units to the west of Whitehorse were demarcated by the examination of aerial photographs and through previous field experience. East of Whitehorse the terrain units along the route were defined almost exclusively on the basis of air photo interpretation.

Emphasis has been placed on the description of the physical environment along and adjacent to the center line of the route, though the more important features of the living environment have also been summarized. Site specific information is given in the notes at the bottom of each map sheet, and environmental research priorities are also noted.

The principal sources of information are listed in the references below. Where appropriate these are keyed to specific data on the maps. Only the main geological reports are shown on the reference map below. Bracketed numbers in the descriptions refer to the relevant reference number. The legend for the terrain units is shown below and is a slightly modified version of the format currently used by the Geological Survey of Canada.

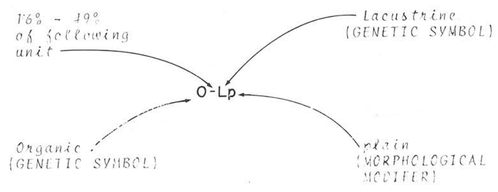
cfsm - cubic feet per square mile

MAP UNIT DESIGNATION AND LEGEND FOR TERRAIN MAPS*

Genetic Symbol		Morphological Modifier	
M	MORAINAL	p	PLAIN
G	GLACIOFLUVIAL	r	RIDGED
L	LACUSTRINE	b	BLANKET OR VENEERED
A	ALLUVIAL	t	TERRACED
C	COLLUVIAL	d	DRUMLINIZED
E	EOLIAN	h	HUMMOCKY
S	SLUMP	e	ERODED OR MODIFIED
O	ORGANIC	f	FAN
R	BEDROCK	m	ROLLING
CR	ROCK GLACIER		
CL	LAND SLIDE		

— 16% - 49% OF FOLLOWING UNIT
\ 5% - 15% OF FOLLOWING UNIT

EXAMPLE:



*MODIFIED AFTER GEOLOGICAL SURVEY OF CANADA

MP: MILE POST ALASKA HIGHWAY
ESKER RIDGE
DRUMLIN, DIRECTION OF GLACIER FLOW
CANYON OR RAVINE
SCARPS
APPROXIMATE, INFERRED CONTACT
MILE POST ON PIPELINE
PIPELINE ROUTE

SLOPES:
GENTLE: 0 - 5%
MODERATE: 6 - 15%
STEEP: 16 - 100 % (45°)

Geo-analysis Ltd.

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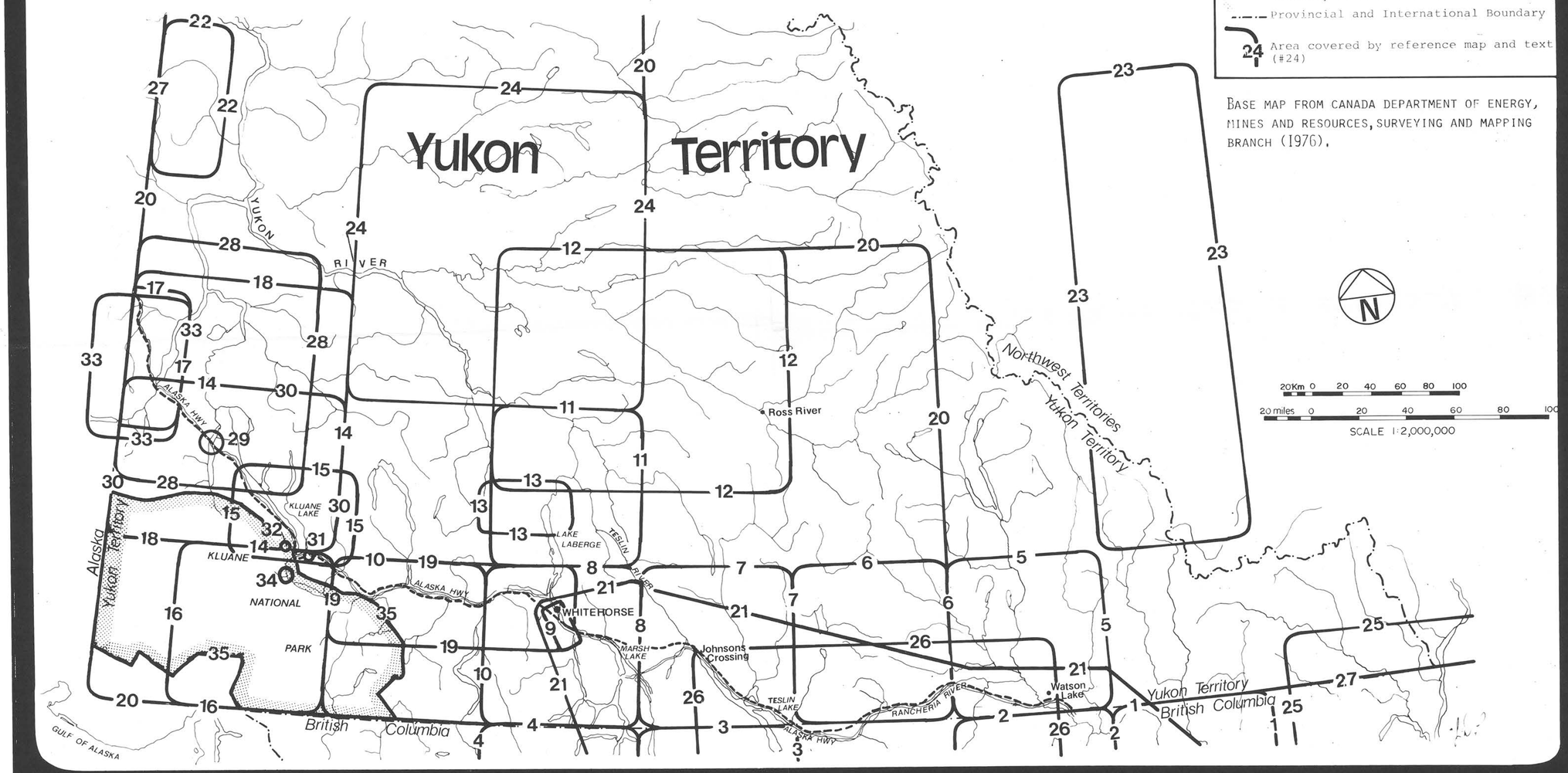
Reference Map and Text



LEGEND

----- Alcan pipeline route
Boundary of Kluane National Park
-·-·- Provincial and International Boundary
24 Area covered by reference map and text (#24)

BASE MAP FROM CANADA DEPARTMENT OF ENERGY, MINES AND RESOURCES, SURVEYING AND MAPPING BRANCH (1976).

N

20Km 0 20 40 60 80 100
20 miles 0 20 40 60 80 100
SCALE 1:2,000,000

1. G.S.C. Map: 46-1962 Rabbit River, 4 mi, Gabrielse, H.

2. G.S.C. Map: 110A McDame 4 mi, Price L.L. and H. Gabrielse 1963 (M319); 54-10 McDame, 4 mi, Gabrielse, H. 1954 (Paper 54-10)

3. G.S.C. Map: 1082A Atlin, 4 mi, Aitken, J., 1960 (M307)

4. G.S.C. Map: 19-1957 Bennett, 4 mi, Christie, R.L.

5. G.S.C. Map: 19-1966 Watson Lake, 4 mi, Gabrielse, H., 1965

6. G.S.C. Map: 10-1960 Wolf Lake, 4 mi, Muller, H. and R.L. Christie, 1959; 55-21 Wolf Lake, 4 mi, Poole W.H. 1955 (Paper 55-21)

7. G.S.C. Map: 1125A Teslin, 4 mi, Mulligan, R., 1963 (M326); 54-20 Teslin, 4 mi, Mulligan, R., 1955 (Paper 54-20).

8. G.S.C. Map: 1093A Whitehorse 4 mi, Wheeler, J.O., 1962 (M312)

9. G.S.C. Map: 49-1962 Whitehorse Copper Belt, 1 mi, Kindle, E.D., 1962

10. G.S.C. Map: 1019A, Dezadeash, 4 mi, Kindle, E.D., 1953 (M268)

11. G.S.C. Map: 372A Laberge 4 mi, W.E. Cockfield, and Leese, H.S. Bostock, 1936 (M217)

12. G.S.C. Map: 394A Pelly River, 8 mi, Johnston, J.R., 1936 (M200)

13. G.S.C. Map: 11A Braeburn - Kynocks Coal Area, 2 mi, Cairnes, D.D., 1910 (M5)

14. G.S.C. Map: 1177A Kluane Lake, 4 mi, Muller, J.E., and R.L. Christie, 1966 (M340)

15. G.S.C. Map: 152A Kluane Lake, 4 mi, Cairnes, D.D., and McConnel, 1917

16. G.S.C. Map: 1134A Kaskawulsh, 4 mi, Wheeler, J.O., 1963

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