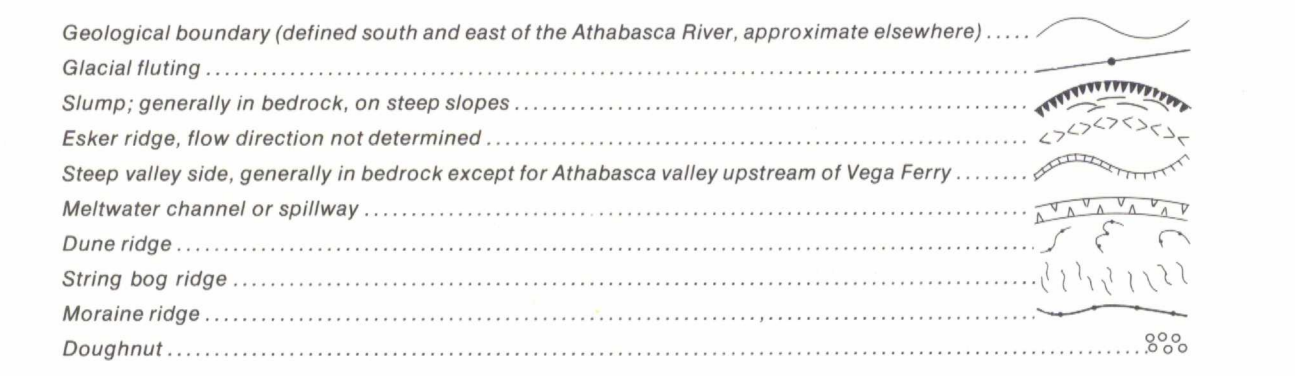




GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES

LEGEND

Unit name	Material	Topography	Stoniness* (cobbles, boulders)
QUATERNARY RECENT (POSTGLACIAL)			
19 Bogs and marshes	Peat, muck	Flat or ridged	No stones C0
18	Sand, silt	Flat, some abandoned channels	Few stones C1
17 Alluvium and	Gravel	Flat	Excessively stony C5
16 Colluvium	Undifferentiated	Flat	Moderately stony C2
15	Thinly mantled bedrock	Dissected	Moderately to very stony C2 to C4
LATE PLEISTOCENE (WISCONSIN)			
14 Deltaic deposits	Sand	Rolling, mounds and ridges	Stone-free C0
13 Fluvio-glacial deposits	Sand, gravel	Undulating	Stone-free C0
12	Gravel	Undulating	Occasional stones C1
11	Silt, clay	Flat to gently rolling	Stone-free C0
10 Glacial lake deposits	Silt, fine sand	Hummocky	Stone-free C0
9	Silt, fine sand	Hilly	Stone-free C0
8	Sand cover on silt	Undulating	Occasional stones C1
7 Ground moraine	Till: mixture of clay, silt, fine sand	Rolling	Moderately stony C1 to C2
6 Thin ground moraine	Till: mostly cobbles	Rolling, dissected	Very stony C3 to C4
5 Washed ground moraine	Till: mixture of clay, silt, cobbles on surface	Flat	Stony C2 to C3
4 Hummocky moraine	Till: mixture of silt, sand, stones	Rolling to hummocky	Stony C1 to C3
3	Till: mixture of silt, sand, stones	Hummocky to hilly	Stony C2 to C4
TERTIARY PALEOCENE			
2 Old alluvium	Gravel, sand	Flat (bench)	Excessively stony C5
1	Gravel, sand	Flat (plateau)	Excessively stony C4 to C5



Geology west of longitude 115°30' and north of Athabasca River by D.A. St-Onge, 1966, 1968 and 1973; east of longitude 115°30' and south of Athabasca River by S.H. Richard, 1967 and 1968. Compiled by D.A. St-Onge 1972, 1973

*Material and stoniness categories according to: Soil Survey Manual, U.S. Dept. Agriculture Handbook no. 18, 1951

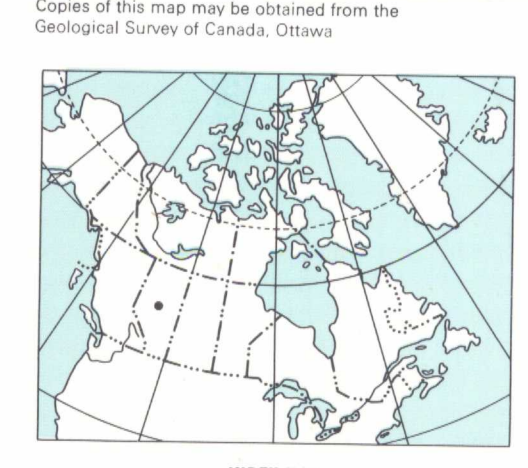
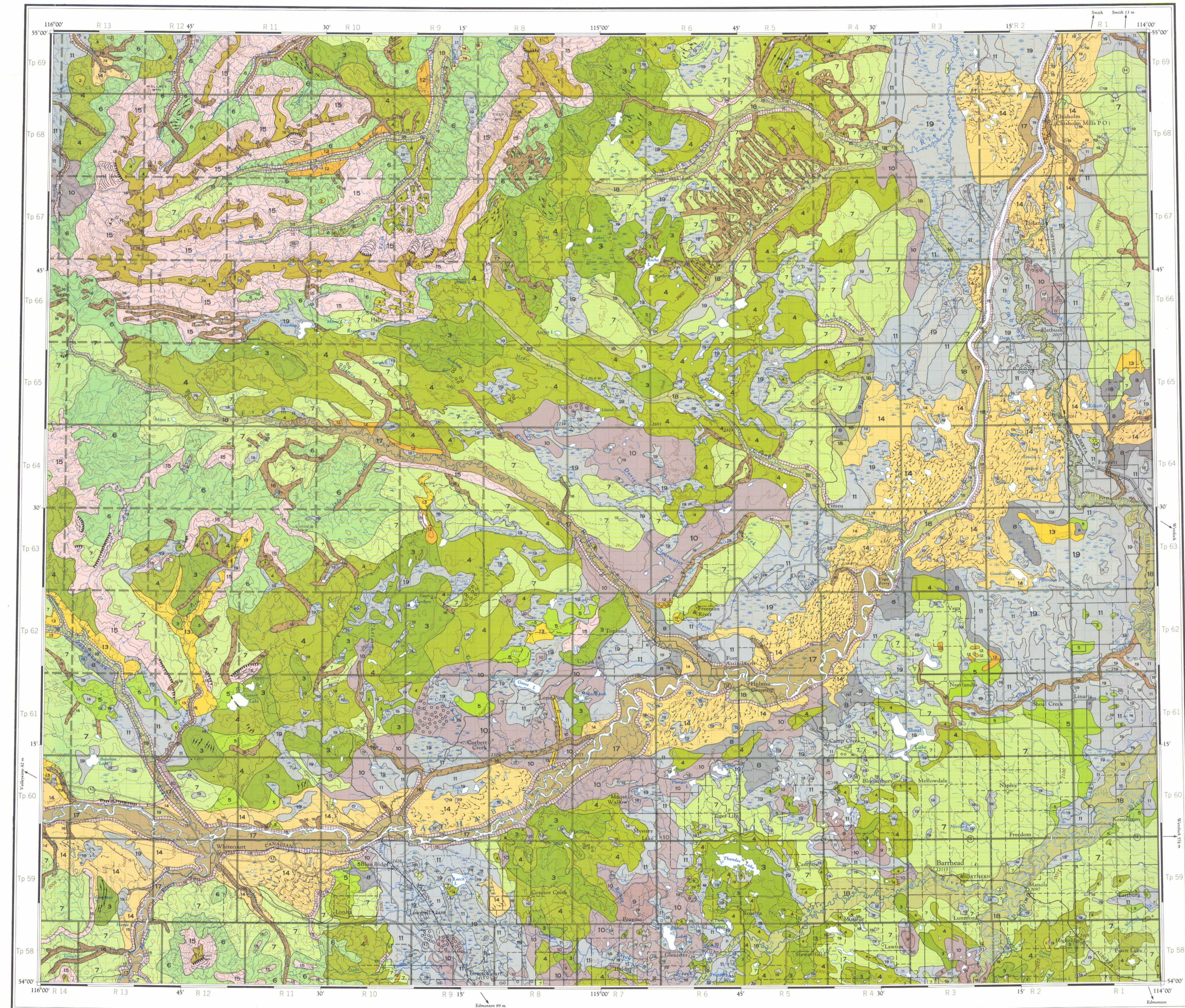
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 1972: La stratigraphie du Quaternaire des environs de Fort-Assiniboine, Alberta; Rev. geogr. Mt., vol. XXVI, no 2, p. 153-163
 1972: Sequence of Glacial Lakes in North-Central Alberta; Geol. Surv. Can., Bull. 213
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Geological cartography by T.L. Papps, Geological Survey of Canada
 Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada
 Base-map at the same scale published by the Surveys and Mapping Branch in 1961
 Copies of the topographical edition of this map may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa

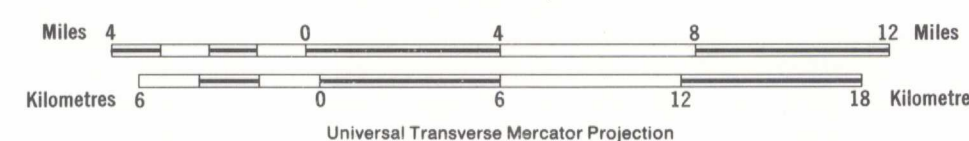
Magnetic declination 1973, varies from 24°30' easterly at centre of west edge to 23°13' easterly at centre of east edge
Mean annual change decreasing 3.3'

Elevations in feet above mean sea-level



MAP 1367A
SURFICIAL GEOLOGY
WHITECOURT
WEST OF FIFTH MERIDIAN
ALBERTA

Scale 1:250,000



Universal Transverse Mercator Projection
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83N	83-O	83P
1077A	83K	83J
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