

GEOLOGICAL SURVEY

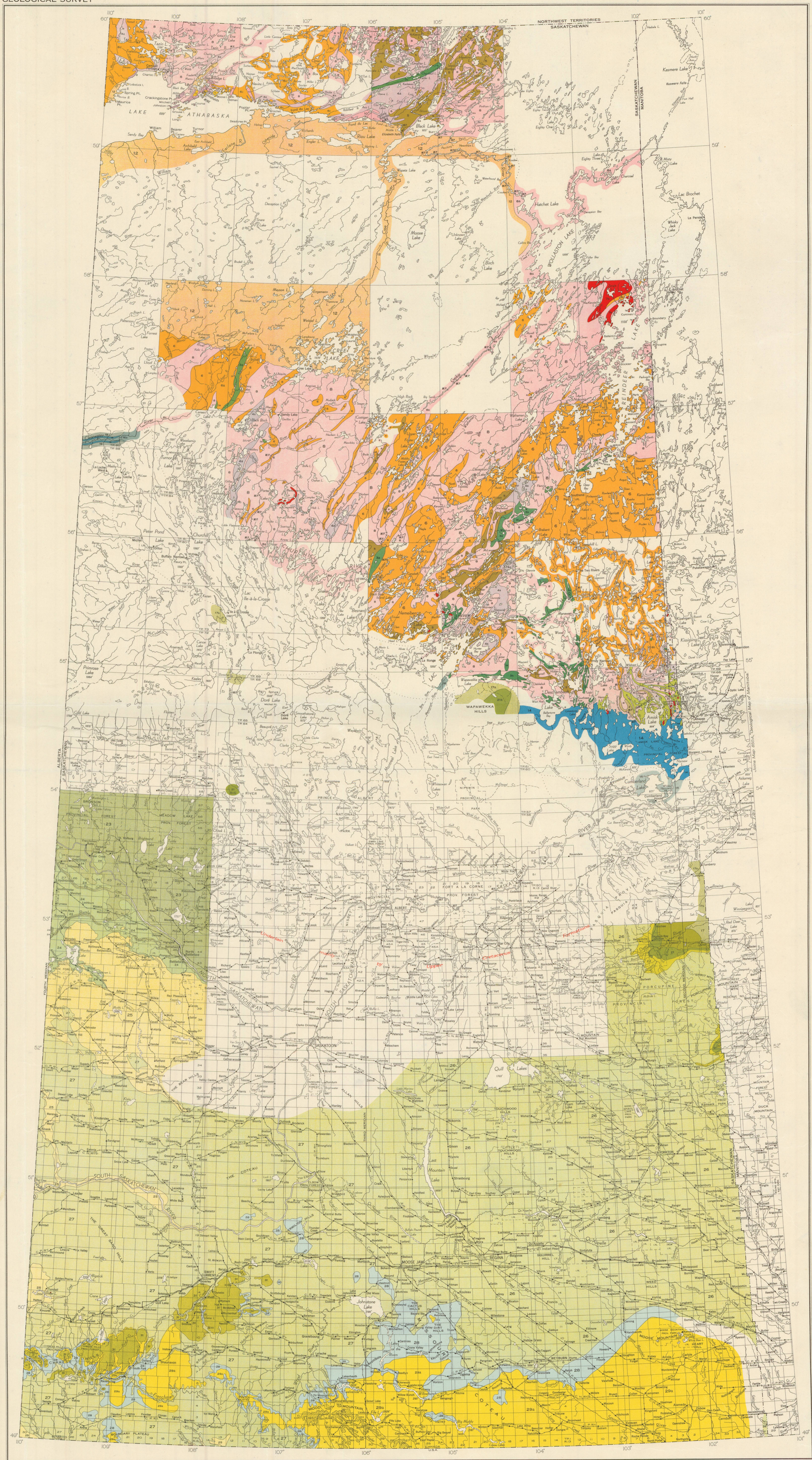
LEGEND

- TERTIARY**
- MIOCENE**
- 32, 32A WOOD MOUNTAIN FORMATION: gravel, some silt, mostly unconsolidated; 32A, probably chiefly Miocene gravels
- OLIGOCENE**
- 31 CYPRESS HILLS FORMATION: conglomerate, sandstone
- Eocene**
- 30 SWIFT CURRENT BEDS: conglomeratic sandstone, sandstone
- PALEOCENE**
- 29 RAVENSCRAIG FORMATION: sand, silt, shale, clay, lignite; 29a, includes some Upper Cretaceous beds
- CRETACEOUS**
- UPPER CRETACEOUS**
- 28 EASTEND FORMATION: buff to brown silt and fine sand, grey shale, lignite
WHITEMUD FORMATION: white, kaolinized sandstone, light colored clay and silt, lignite
BATTLE FORMATION: black and green bentonite, shale, silt
FRENCHMAN FORMATION: nearly coarse sandstone
- 27 BEARPAW FORMATION: dark and grey shale, green sand, fine-grained sand and sandstone, in part glauconitic; smooth chert pebbles, concretionary beds; bentonite; volcanic ash
- 26 RIDING MOUNTAIN FORMATION: grey and greenish grey shale, siliceous shale (Odsahk beds); abundant clay-manganese concretions; chert; equivalent to Bearpaw and older formations
- 25 OLDMAN FORMATION, PALE AND VARIATED BEDS: sandstone-sand, white to light grey bentonite, sand, silt to dark grey shale, carbonaceous shale; brown ironstone nodules; coal; 25a, includes part of Foremost Formation
- 24 RIBSTONE CREEK FORMATION: grey and greenish grey sand and sandstone; dark grey shale, sandy shale, coal, lignite
GRIZZLY HORN FORMATION: dark grey shale
BIRCH LAKE FORMATION: brownish and yellowish weathering sand and sandstone
- 23 LEA PARK FORMATION: dark grey shale with bands of ironstone nodules; fine-grained sand and sandy shale, bentonite
- 22 VERMILION RIVER FORMATION (Morden, Boyne, and Pembina members): dark grey shale, calcareous speckled shale, bentonite
- 21 FAVEL FORMATION (Kild and Assiniboine members): calcareous speckled shale, limestone, bentonite; 21a, mainly shale, age uncertain
- UPPER CRETACEOUS**
- 20 ASHVILLE FORMATION: dark grey shale; minor silt, sand, limestone, and bentonite
- LOWER (?) AND UPPER CRETACEOUS**
- 19 CLEARWATER FORMATION: shale
- LOWER CRETACEOUS**
- 18 MUMFURRAY FORMATION: sand, sandstone
- JURASSIC (?) AND CRETACEOUS LOWER CRETACEOUS AND (?) EARLIER**
- 17 SIVAN RIVER GROUP: sand, sandstone, shale, clay; 17a, sandstone, minor shale
- DEVONIAN**
- 16 Limestone, dolomite; 16a, may be Silurian
- SILURIAN**
- 15 Magnesian limestone, dolomite, limestone
- ORDOVICIAN**
- UPPER ORDOVICIAN**
- 14 Dolomite, dolomitic limestone, sandstone
- PROTEROZOIC**
- 13 Diabase
- 12 ATHABASKA SERIES: sandstone, conglomerate, arkose; minor basalt
- 11 Granite
- 10 Gabbro, norite, amphibolite, peridotite
- 9 BEAVERLODGE SERIES: quartzite, conglomerate, iron formation
- CHIEFLY ACIDIC INTRUSIVE ROCKS**
- 8 Granite, granodiorite, quartz diorite, and granite, with gneiss and porphyritic pegmatites; minor pegmatite and siltite; 8a, undifferentiated granitic intrusions and older gneiss and schists; sedimentary and volcanic rocks
- CHIEFLY BASIC INTRUSIVE ROCKS**
- 7 Diorite, gabbro, anorthosite, amphibolite, hornblende, gneiss, peridotite, serpentinite; 7a, hornblende schist and gneiss associated with granitic rocks
- COMPLEX OF SEDIMENTARY, VOLCANIC, AND INTRUSIVE ROCKS**
- 6 Sedimentary and volcanic rocks and intrusions (mainly acidic); 6a, chiefly volcanic rocks (6a) associated with intrusions (mainly basic); 6b, sedimentary rocks (6) associated with acidic intrusions; 6c, chiefly sedimentary rocks (6a) associated with acidic intrusions
- VOLCANIC AND SEDIMENTARY ROCKS**
- 5 Andesite, rhyolite, quartzite, gneiss; derived biotite, hornblende, and garnetiferous schists and gneisses. Undifferentiated 5a and 5b
- CHIEFLY SEDIMENTARY ROCKS**
- 4 Quartzite, gneiss, arkose, conglomerate, derived micaceous and garnetiferous gneisses and schists (Moose group and Rosemary gneiss); 4a, quartzite, arkose, gneiss, arkose, conglomerate, limestone, dolomite, iron formation; derived micaceous and garnetiferous gneisses and schists; includes Tazin group, in part may be of the same age as 2
- CHIEFLY VOLCANIC ROCKS**
- 3 Hornblende granite and schist (Moose group, in minor part); 3a, andesite, basalt, rhyolite, dacite, tuff, agglomerate, gneiss, derived schists and gneisses; includes Tazin group, in part may be of the same age as 1
- CHIEFLY SEDIMENTARY ROCKS**
- 2 Gneiss, quartzite, slate, argillite, tuff, derived schists
- CHIEFLY VOLCANIC ROCKS**
- 1 Andesite, basalt, rhyolite, dacite, tuff, breccia, agglomerate, quartz porphyry, gneiss, derived schists and gneisses; includes Amisk volcanic rocks

Productive metal mine R.M. 110
Developed water-power site 287
Undeveloped water-power site 82

Geology derived mainly from published and unpublished maps and reports of the Geological Survey and, in part, from map information kindly supplied by Imperial Oil Limited. Cartography by the Drafting and Reproducing Division, 1946.

For Mineral Occurrences and Glacial Striae see Map 895A, Mineral Map of Saskatchewan, scale: 1 inch to 20 miles, Geological Survey, Canada, 1947.



MAP 895A
(PUBLISHED 1947)
GEOLOGICAL MAP
OF
SASKATCHEWAN

SCALE: ONE INCH TO TWENTY MILES = 1:267,200
MILES 0 10 20 30 40 50 60 70 80 90 100
KILOMETRES 0 10 20 30 40 50 60 70 80 90 100