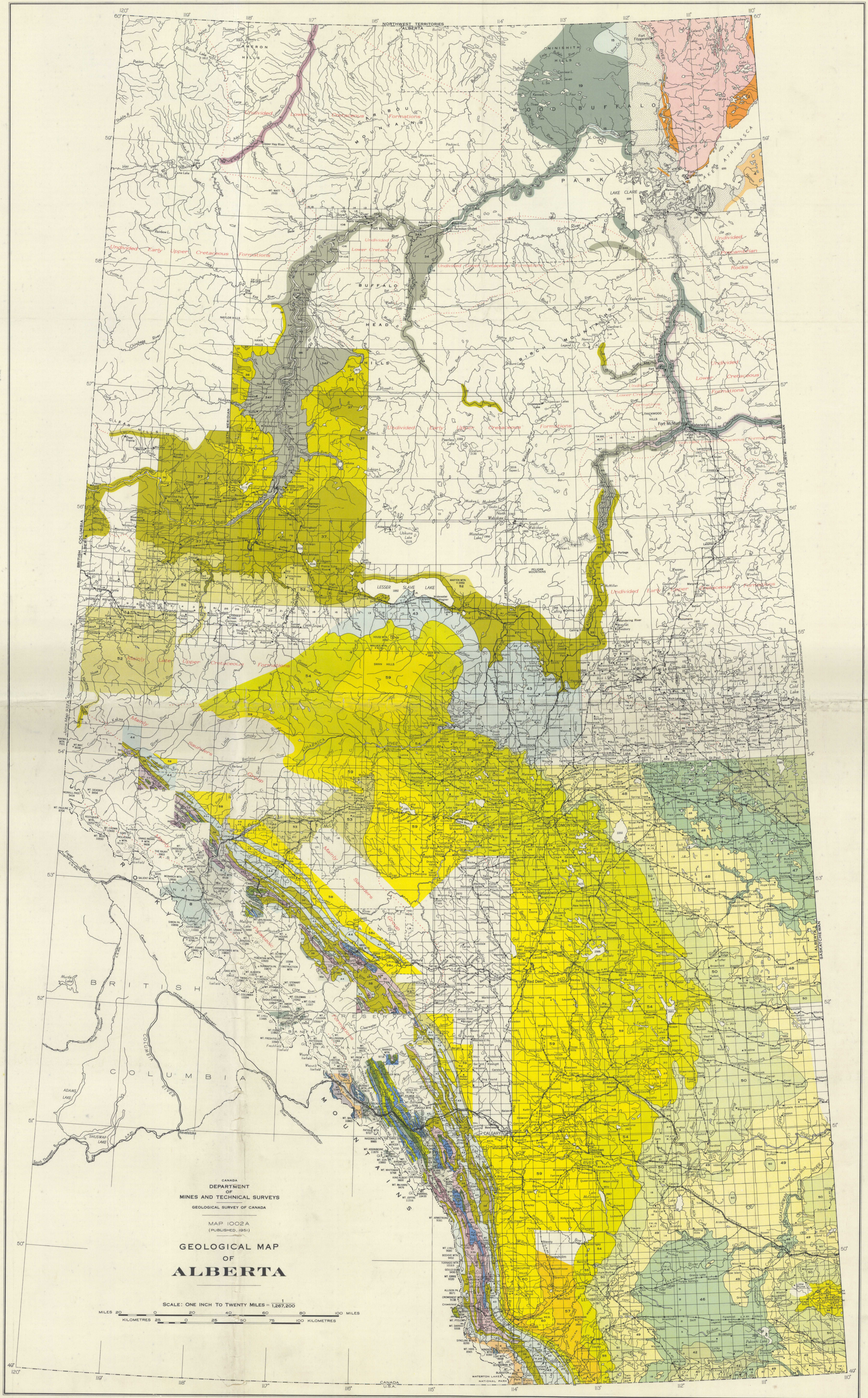


1002A

LEGEND

- MESOZOIC AND CENOZOIC**
- UPPER CRETACEOUS AND LATER**
- 52, 53 52. WAPITI GROUP: grey sandstone, shale, conglomerate with beds of coal  
53. SAUNDERS GROUP: sandstone, shale, conglomerate with beds of coal
- LOWER CRETACEOUS AND EARLIER**
- 27-31 27. Mainly sandstone and shale  
28. Mainly sandstone and shale  
29. Mainly sandstone and shale  
30. Mainly sandstone and shale  
31. Mainly sandstone and shale
- MESAZOIC**
- 43-45 43. BELLY RIVER FORMATION: grey and green sandstone and shale, thin beds  
44. BRADY FORMATION: sandstone, shale, conglomerate  
45. BRADY FORMATION: sandstone, shale, conglomerate
- UPPER CRETACEOUS**
- 54-56 54. EDMONTON FORMATION: grey sandstone and shale, grey greenish and olive green shales, thin beds  
55. ST. MARY RIVER FORMATION: sandstone and shale, thin beds  
56. ST. MARY RIVER FORMATION: sandstone and shale, thin beds
- UPPER CRETACEOUS AND PALEOGENE**
- 57 WILLOW CREEK FORMATION: varicoloured shales with thin concretions of soft, grey sandstone
- CRETACEOUS**
- 50, 51 50. BEARPAW FORMATION: grey, brown, and green shales, thin beds  
51. BEARPAW FORMATION: grey, brown, and green shales, thin beds
- CRETACEOUS AND TERTIARY**
- 58-61 58. Sandstone, shale, conglomerate, thin beds  
59. SANDSTONE, shale, conglomerate  
60. SANDSTONE, shale, conglomerate  
61. SANDSTONE, shale, conglomerate
- PALEOGENE**
- 62, 63 62. CYPRESS HILLS FORMATION: conglomerate  
63. Conglomerate, sandstone
- TERTIARY**
- QUATERNARY**
- 64, 65 64. Recent drift  
65. Recent drift
- PROTEROZOIC**
- 1-3 1. Mainly sedimentary rocks (TAZIN GROUP, in part), with associated acidic intrusions  
2. Undifferentiated granitic intrusions and other granitic and schistose, gneissic, and volcanic rocks  
3. Cherty granites and granite-gneisses, minor basic intrusions
- ARCHAIC OR PROTEROZOIC**
- 4-6 4. ATMANABIA SERIES: sandstone, arkose, conglomerate  
5. CROWLEY, HECTOR, and HECTOR FORMATIONS  
6. CROWLEY, HECTOR, and HECTOR FORMATIONS
- CAMBRIAN**
- 7-11 7. FORT MOUNTAIN (FERRIS), LAKE LOUISE, and MOUNTAIN RAIN FORMATIONS  
8. FORT MOUNTAIN (FERRIS), LAKE LOUISE, and MOUNTAIN RAIN FORMATIONS  
9. FORT MOUNTAIN (FERRIS), LAKE LOUISE, and MOUNTAIN RAIN FORMATIONS  
10. FORT MOUNTAIN (FERRIS), LAKE LOUISE, and MOUNTAIN RAIN FORMATIONS  
11. FORT MOUNTAIN (FERRIS), LAKE LOUISE, and MOUNTAIN RAIN FORMATIONS
- DEVONIAN**
- 12-14 12. FERRIS GROUP  
13. FERRIS GROUP  
14. FERRIS GROUP
- ORDOVICIAN**
- 15 FITZGERALD FORMATION of gypsum, salt, and dolomite
- BILURIAN**
- 16-18 16. Mainly limestone and dolomite  
17. Mainly limestone and dolomite  
18. Mainly limestone and dolomite
- TRASSIC**
- 19-21 19. Unidentified  
20. Unidentified  
21. Unidentified
- DEVIANIAN AND LATER**
- 22 22. Unidentified
- CARBONIFEROUS AND LATER**
- 23 23. Unidentified
- JURASSIC**
- 24 24. Unidentified
- LOWER CRETACEOUS**
- 25-26 25. Unidentified  
26. Unidentified
- UPPER CRETACEOUS**
- 27-31 27. Unidentified  
28. Unidentified  
29. Unidentified  
30. Unidentified  
31. Unidentified
- MESAZOIC**
- 32-33 32. Unidentified  
33. Unidentified
- UPPER CRETACEOUS AND LATER**
- 34-35 34. Unidentified  
35. Unidentified
- LOWER CRETACEOUS**
- 36 36. Unidentified
- UPPER CRETACEOUS**
- 37-39 37. Unidentified  
38. Unidentified  
39. Unidentified
- UPPER CRETACEOUS AND LATER**
- 40 40. Unidentified
- UPPER CRETACEOUS**
- 41, 42 41. Unidentified  
42. Unidentified
- UPPER CRETACEOUS**
- 43-45 43. Unidentified  
44. Unidentified  
45. Unidentified
- UPPER CRETACEOUS**
- 46, 47 46. Unidentified  
47. Unidentified
- UPPER CRETACEOUS**
- 48, 49 48. Unidentified  
49. Unidentified
- UPPER CRETACEOUS**
- 50, 51 50. Unidentified  
51. Unidentified
- UPPER CRETACEOUS AND PALEOGENE**
- 52, 53 52. Unidentified  
53. Unidentified
- UPPER CRETACEOUS**
- 54-56 54. Unidentified  
55. Unidentified  
56. Unidentified
- UPPER CRETACEOUS AND TERTIARY**
- 57 57. Unidentified
- UPPER CRETACEOUS**
- 58-61 58. Unidentified  
59. Unidentified  
60. Unidentified  
61. Unidentified
- UPPER CRETACEOUS**
- 62, 63 62. Unidentified  
63. Unidentified
- UPPER CRETACEOUS**
- 64, 65 64. Unidentified  
65. Unidentified



CANADA  
DEPARTMENT OF MINES AND TECHNICAL SURVEYS  
GEOLOGICAL SURVEY OF CANADA  
MAP 1002A  
(PUBLISHED 1951)  
GEOLOGICAL MAP OF ALBERTA

SCALE: ONE INCH TO TWENTY MILES = 1:267,200  
MILES 0 20 40 60 80 100  
KILOMETRES 0 20 40 60 80 100

**NOTES**

Formational names inserted in parentheses and in lower case letters, as for example "Fox Hills" (FERRIS), etc., are alternative names that have appeared in published maps and reports but that have in most instances been superseded by the names in this map. Such names are to be distinguished on the one hand from age terms also in parentheses and in lower case letters, such as Lower Cambrian, Devonian, etc., and on the other from words in parentheses and in capital letters. Abbreviations have been used as part of a formational name, as LOON (RIVER) FORMATION. They should not be distinguished from names in parentheses and in capital letters that represent the component formations of a group, as BLAIRMORE GROUP, which is complete in the Cretaceous of Alberta. Similarly, the term "Belly River" has been replaced largely by "ALBERTA", for which it is not an exact equivalent. Also, the formational name Fox Hills, originally adopted from the type area in South Dakota and applied to that area, is now believed to be more nearly equivalent to the younger EASTEND and WHITELUTZ formations, and has been replaced as such. The stratigraphic position of the FERRIS FORMATION is uncertain, or though it is lithologically allied to the underlying Middle Cambrian ELDON FORMATION and occurs below a widespread diastrophic break, it contains a few hours of Upper Cambrian. Recent investigations have indicated that the Upper Cretaceous LA BICHE FORMATION can be included into other formations that have been recognized elsewhere under the name, and that it should more properly be referred to as a GROUP.

**Geology derived mainly from published and unpublished maps and reports of the Geological Survey of Canada and the Research Council of Alberta, and in part from information kindly supplied by Imperial Oil Limited. Completion by the Research Council of Alberta was facilitated by the active cooperation of members of the Geological Survey Division of the Research Council of Alberta.**

Cartography by the Mapping Division, Geological Survey of Canada, 1950.

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