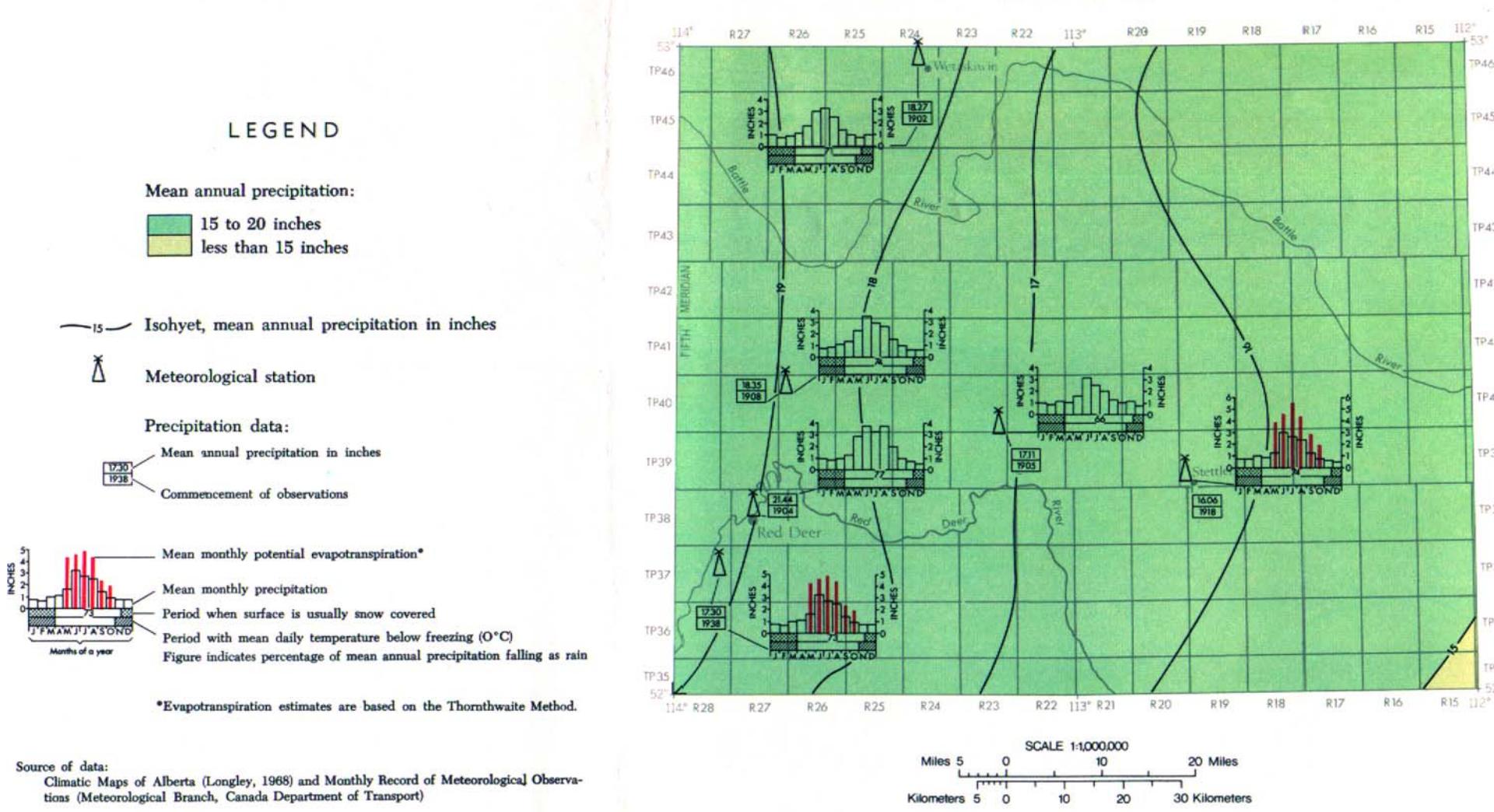


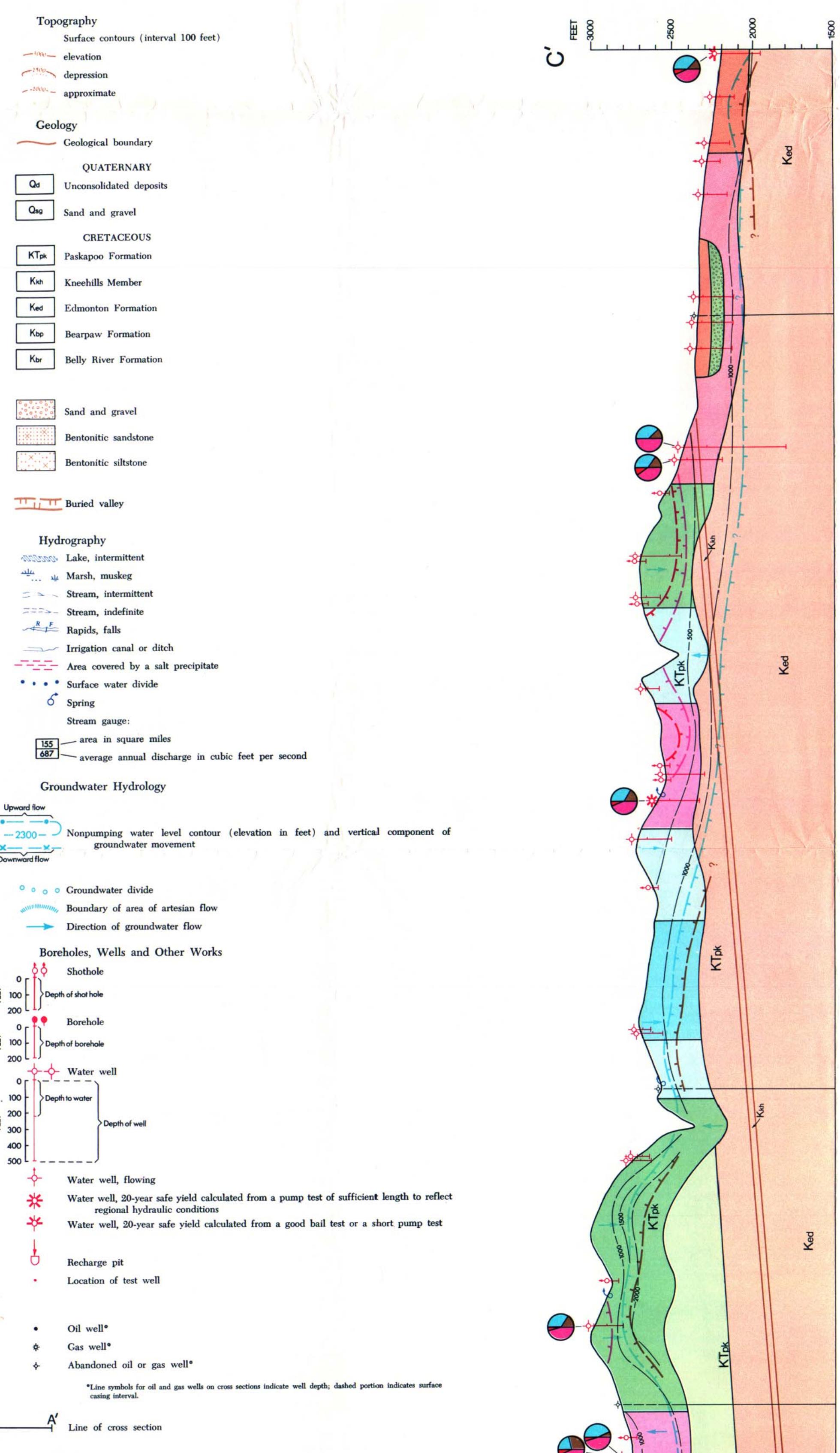


RESEARCH COUNCIL OF ALBERTA

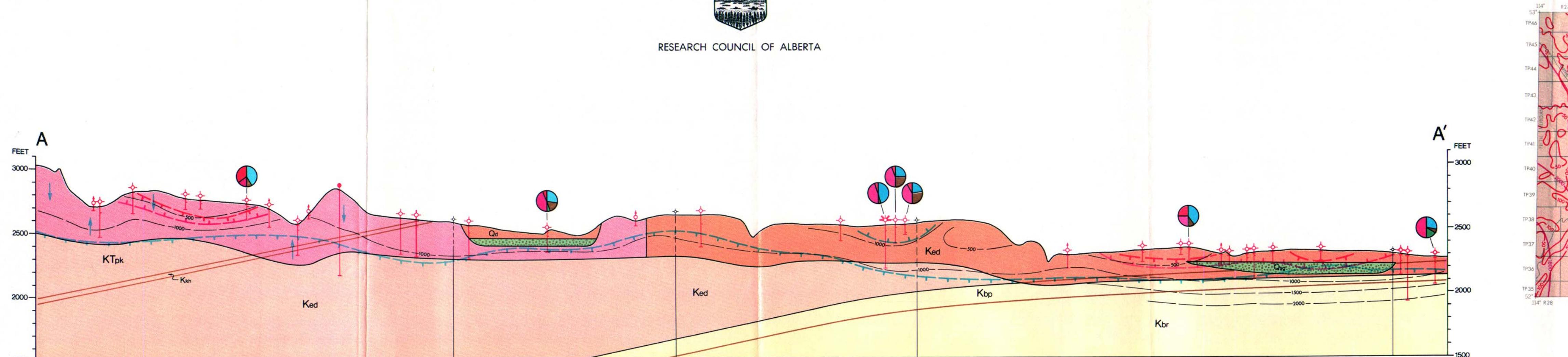
## METEOROLOGY



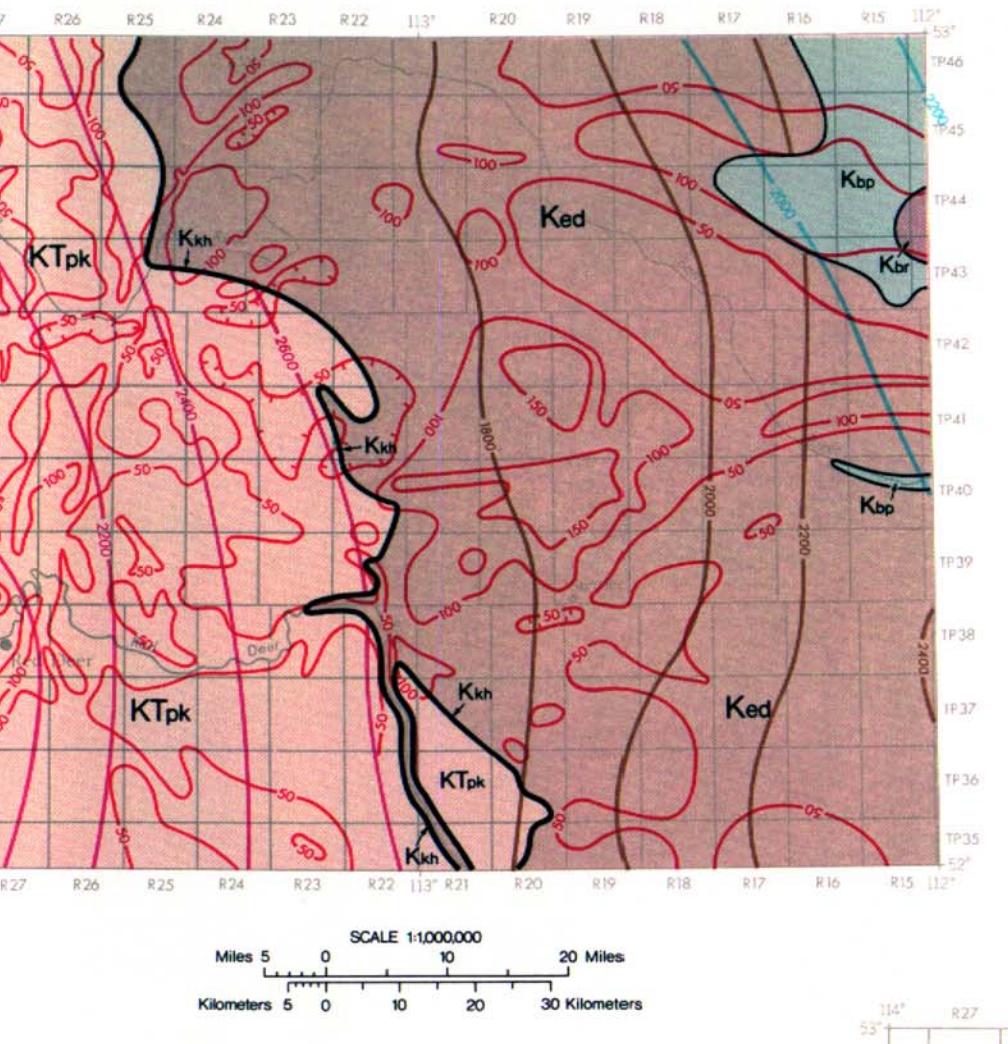
## MAIN MAP LEGEND



## GEOLOGY



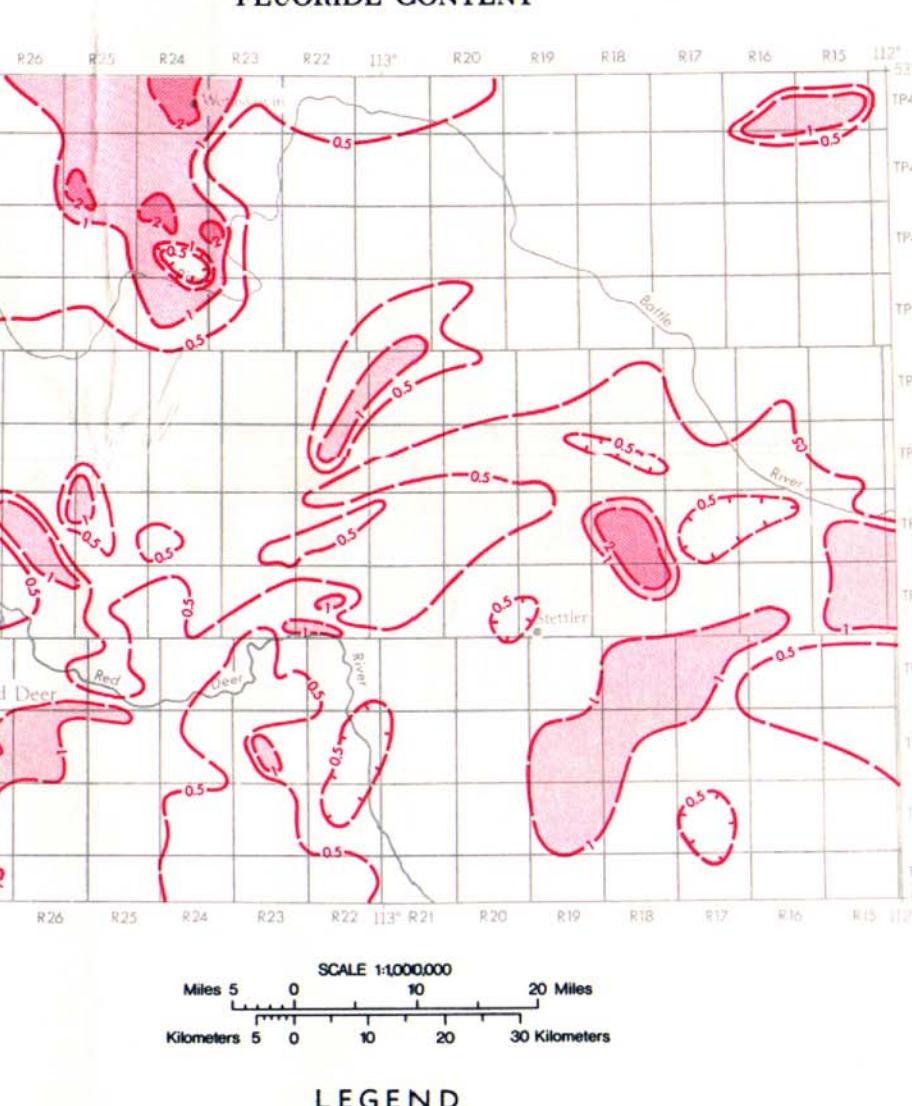
## GEOLOGY



## LEGEND

- Ktpk: Pakapo Formation; sandstone, siltstone, minor coal
  - Ksc: Koolihli Member, Edmonton Formation; tuff, shale
  - Ked: Edmonton Formation; siltstone, sandstone, coal, shale
  - Kbr: Belly River Formation; shale
  - Belly River Formation: dolomite, dolomite, shale
- Rock unit boundary
- Thickness of surficial deposits in feet
- Structure contour on top of Koolihli Member
- Structure contour on top of Belly River Formation
- Structure contour on top of Belly River Formation

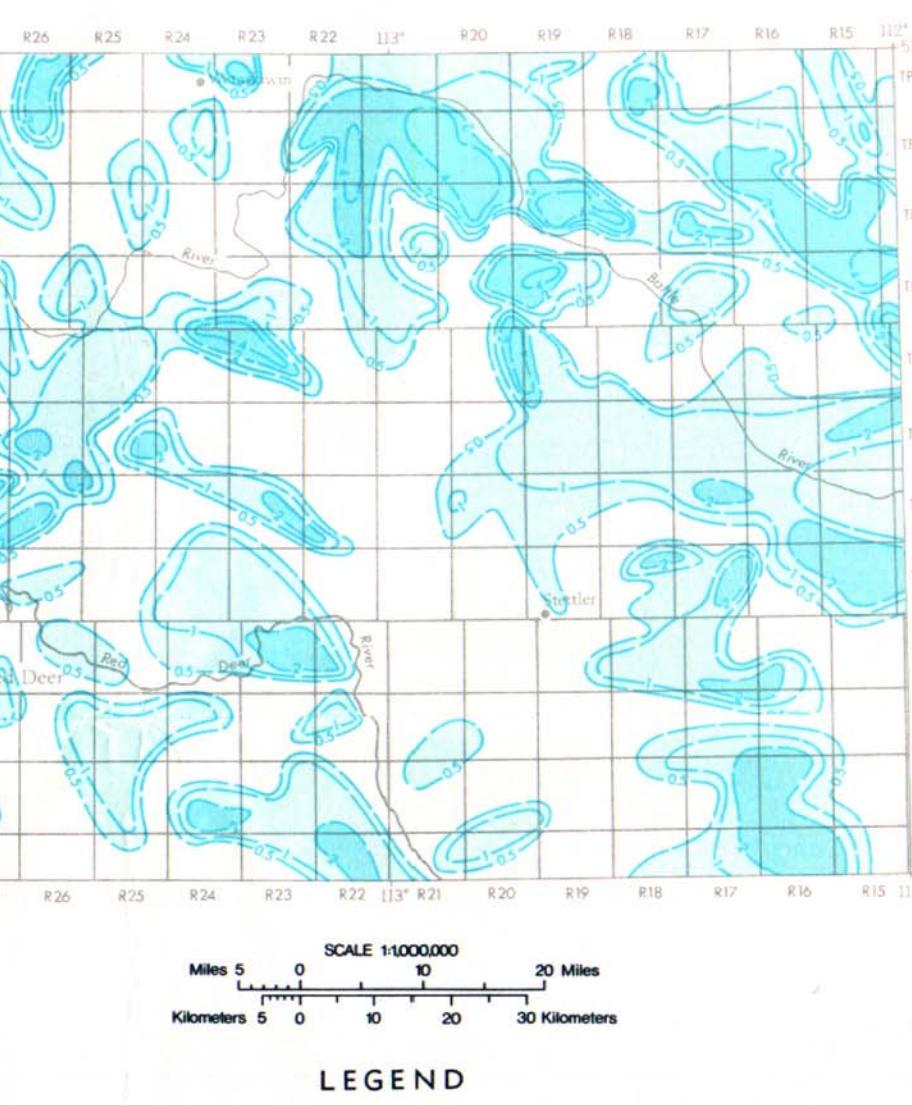
## FLUORIDE CONTENT



## LEGEND

- Fluoride content in parts per million
- Fluoride content ranging between 1 and 2 parts per million
- Fluoride content over 2 parts per million

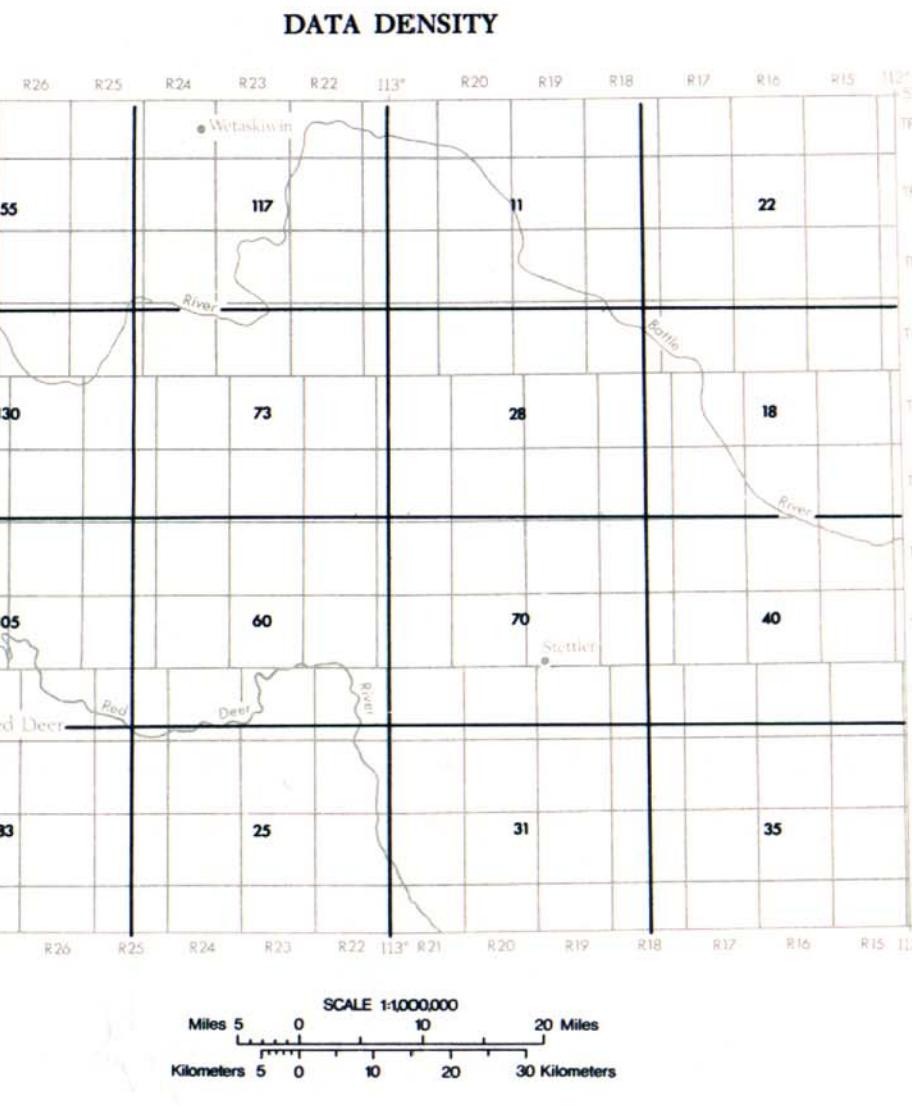
## IRON CONTENT



## LEGEND

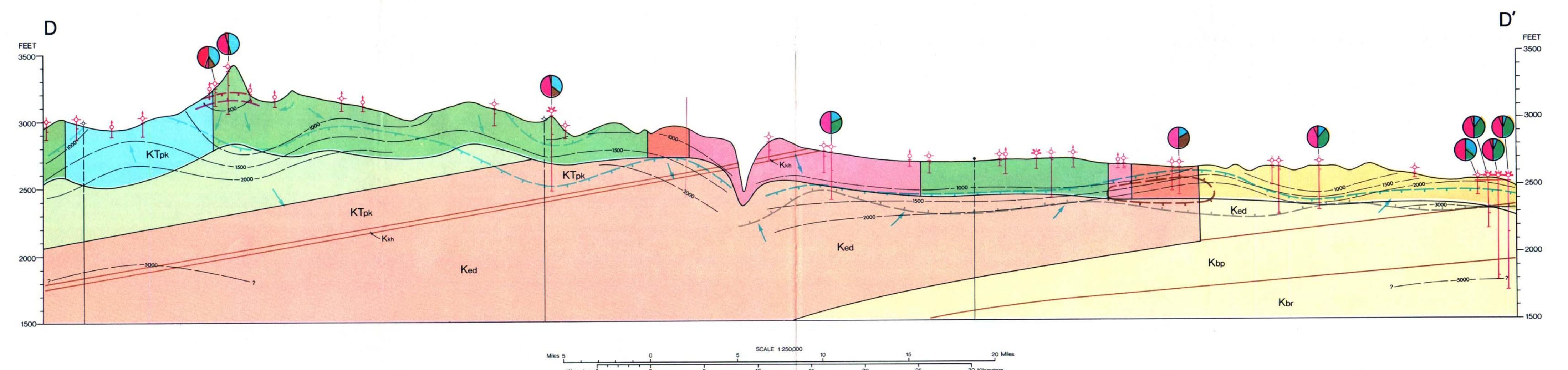
- Iron content in parts per million
- Iron content ranging between 0.5 and 2 parts per million
- Iron content over 2 parts per million

## DATA DENSITY

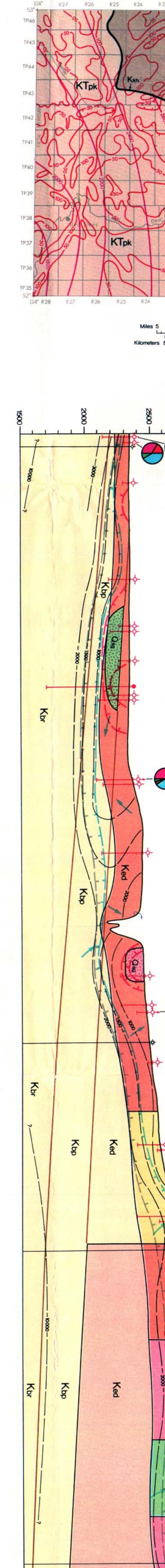


## LEGEND

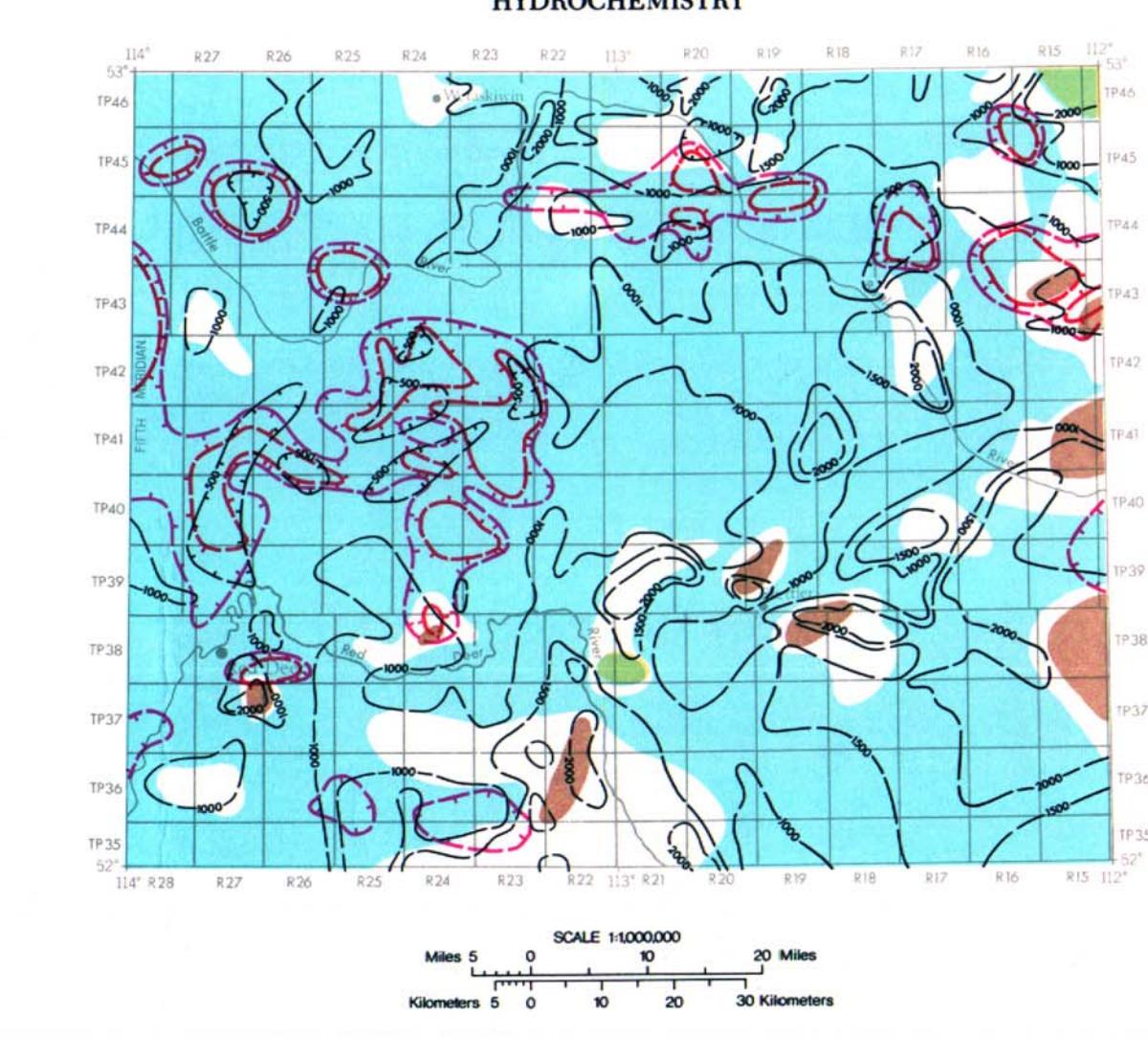
- Figures indicate the number of data points in each section of the map area used in construction of the yield area and hydrochemical maps.



## HYDROCHEMISTRY



## HYDROCHEMISTRY



## LEGEND

- Total dissolved solids in parts per million
- Bicarbonate + carbonate constituting over 60 per cent of total anions, on equivalents per million basis
- Sulfate constituting over 60 per cent of total anions, on equivalents per million basis
- Chloride constituting over 60 per cent of total anions, on equivalents per million basis
- Ionogram along which calcium + magnesium constitute 60 per cent of total cations; teeth indicate direction of lesser calcium + magnesium content
- Ionogram along which sodium + potassium constitute 60 per cent of total cations; teeth indicate direction of lesser sodium + potassium content
- Ionogram along which chloride constitutes 60 per cent of total anions; teeth indicate direction of lesser chloride content

**HYDROGEOLOGICAL MAP  
RED DEER AREA  
ALBERTA**

NTS 83A

