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Subject to revision

RURAL MUNICIPALITY OF SWIFT CURRENT NO-137, SASKATCHEWAN

Recent stream deposits of silts, sands and gravels in which supplies of ground water occur at depths generally not exceeding 30 feet below the surface

Glacial lake sands in which supplies of ground water are generally obtained at depths not exceeding 20 feet below the surface

Glacial lake clays in which little or no ground water occurs.
NOTE - Supplies of ground water are being obtained from beds of sand that underlie the glacial lake clays at depths of about 50 feet below the surface

Glacial till or boulder clay from which supplies of ground water are being obtained from scattered sand and gravel pockets at depths generally within 30 feet of the surface

Area of knolls and depressions in glacial drift (moraine) in which occur isolated pockets of water-bearing sands and gravels within 40 feet of the surface

Area in which the Cypress Hills formation immediately underlies the glacial drift and from which ample supplies of ground water are being obtained generally at depths of 30 to 150 feet below the surface

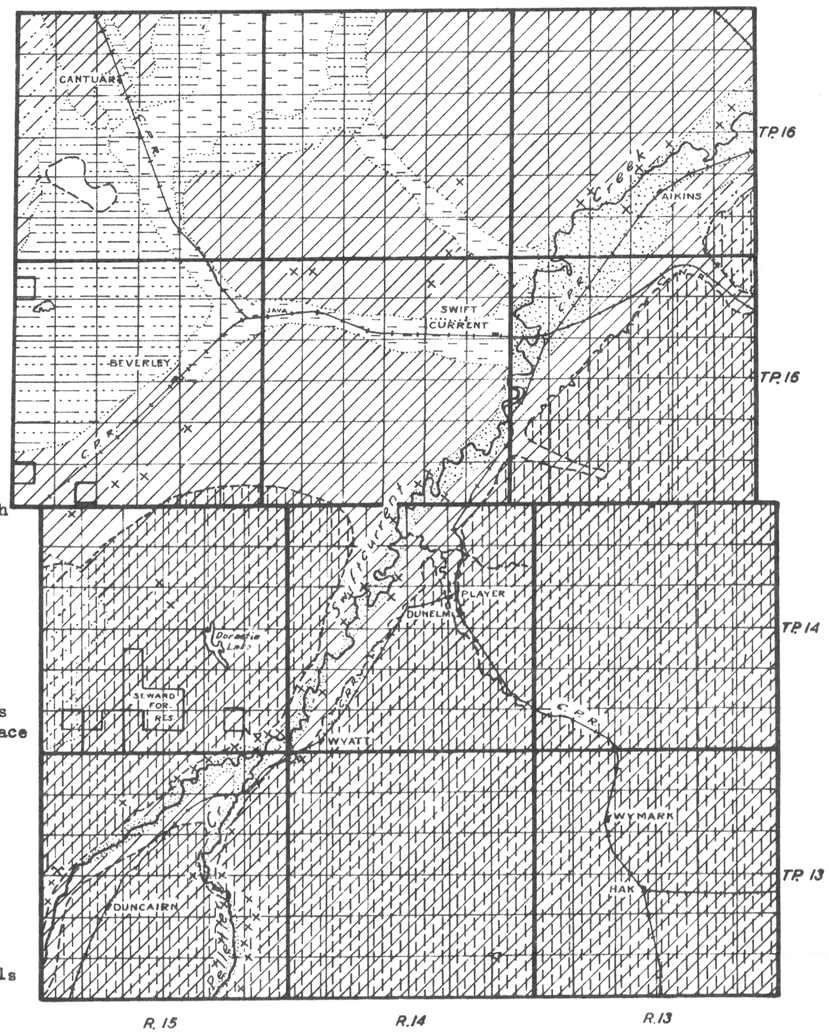
NOTE
Area in which only glacial drift symbols are shown is underlain by the Bearpaw formation. Ample supplies of usually highly mineralized ground water are being obtained from the upper sandy beds of this formation

Approximate geological boundary

Outcrop of bedrock

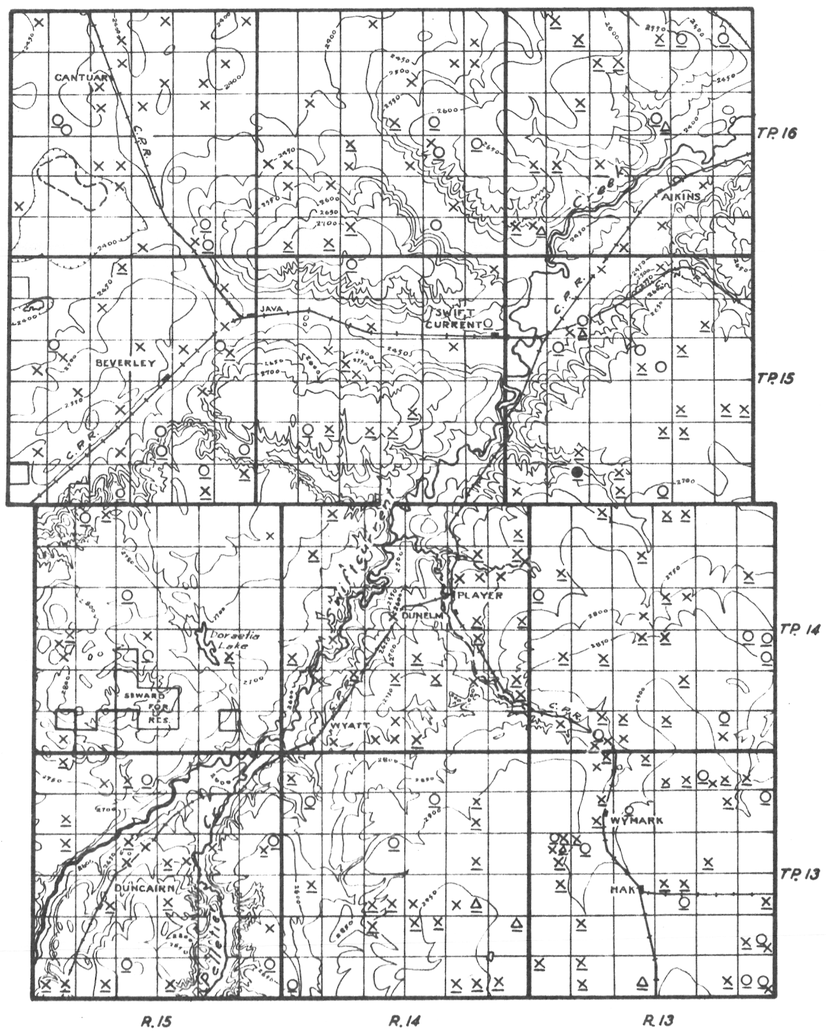
Coal prospect

FIGURE 1



Map showing the surface and bedrock geology as it affects the supply of ground water, and areas in which the ground water occurs

FIGURE 2



Map showing the drainage and relief, and the location and types of wells with source of ground water supply

Well class 1
In drift In bedrock

Flowing wells (These are usually designated as Flowing Artesian wells)

Well class 2
In drift In bedrock

Wells in which the water is under pressure but does not rise to the surface (These are usually designated as Non-flowing Artesian wells)

Well class 3
In drift In bedrock

Wells in which the water does not rise above the water table (These are usually designated as Non-Artesian wells)

Dry holes
In drift In bedrock

Contours (interval 50 feet)

0 3 6 9 12 15 18
Scale of miles

GEOLOGICAL SURVEY, DEPARTMENT OF MINES, CANADA, 1936

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