

MAIN MAP LEGEND

Topography
Surface contours and elevation in feet (interval 100 feet)
Geological boundary
Area of surficial
Thrust fault (with upper plate)
Fault, direction of movement shown

QUATERNARY
Qa Alluvium
Qb Sand and gravel
Qc Clay

CRETACEOUS - TERTIARY
Tc1 Basal Formation
Tc2 Basal Formation
Tc3 Basal Formation

CRETACEOUS
Ca Alberta Group
Ca1 Alberta Group
Ca2 Alberta Group
Ca3 Alberta Group

MESOZOIC
M1 Lower Cretaceous, Jurassic, Triassic
M2 Lower Cretaceous, Jurassic, Triassic
M3 Lower Cretaceous, Jurassic, Triassic
M4 Lower Cretaceous, Jurassic, Triassic
M5 Lower Cretaceous, Jurassic, Triassic
M6 Lower Cretaceous, Jurassic, Triassic
M7 Lower Cretaceous, Jurassic, Triassic
M8 Lower Cretaceous, Jurassic, Triassic
M9 Lower Cretaceous, Jurassic, Triassic
M10 Lower Cretaceous, Jurassic, Triassic

PALEOZOIC
P1 Upper Paleozoic
P2 Upper Paleozoic
P3 Upper Paleozoic
P4 Upper Paleozoic
P5 Upper Paleozoic
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P100 Upper Paleozoic

PRECAMBRIAN
Pr1 Precambrian
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Pr100 Precambrian

Lithology
Sand and gravel
Sandstone
Siltstone
Shale
Limestone
Fractured rock
Coal

Hydrography
Lake or trough, permanent
Lake or trough, seasonal
Infield
Large closed depression
Area inundated during floods
Stream, permanent
Stream, intermittent
Natural pond or water hole (no surface outlet)
Permanent (P) or temporary (T)
Surface water divide

Hydrography
Stream gauging station
Stream gauge
Mean annual discharge in cubic feet per second
Year of construction of observation
Number of years averaged for mean annual discharge figure
Drainage area in square miles

Hydrogeology
Spring, flow rate in gpm (1 liter = 0.264 gpm)
Spring information
C - Confined aquifer
U - Unconfined aquifer
W - Water table
D - Direction of groundwater flow
C - Conduit
Component of groundwater flow perpendicular to profile
Line of profile (see note)
Groundwater divide
Boundary of area of aquifer flow

Groundwater Probability
Range of average expected yield of wells in regional gallons per minute (1 liter = 0.264 gpm)
Probability estimated from qualitative information
Probability estimated from quantitative information
Probability estimated from hydrogeological data

Wells and Other Artificial Works
Depth Scale
Water well, nonproducing
Water well, flowing
Water well, nonproducing
Water well, 20-year yield calculated from apparent transmissivity
Water well, 20-year yield calculated from a good test or a short pump test
Water well, 20-year yield calculated from a pump test of sufficient length to reflect hydraulic conditions
Locations of Alberta Research Council test wells
Shallow, flowing
Gas well
Suspended well, drilled for oil or gas
Abandoned well, drilled for oil or gas
Shallow, nonflowing
Dam and hydroelectric station
Line of hydrogeological profile
Hydrochemistry

