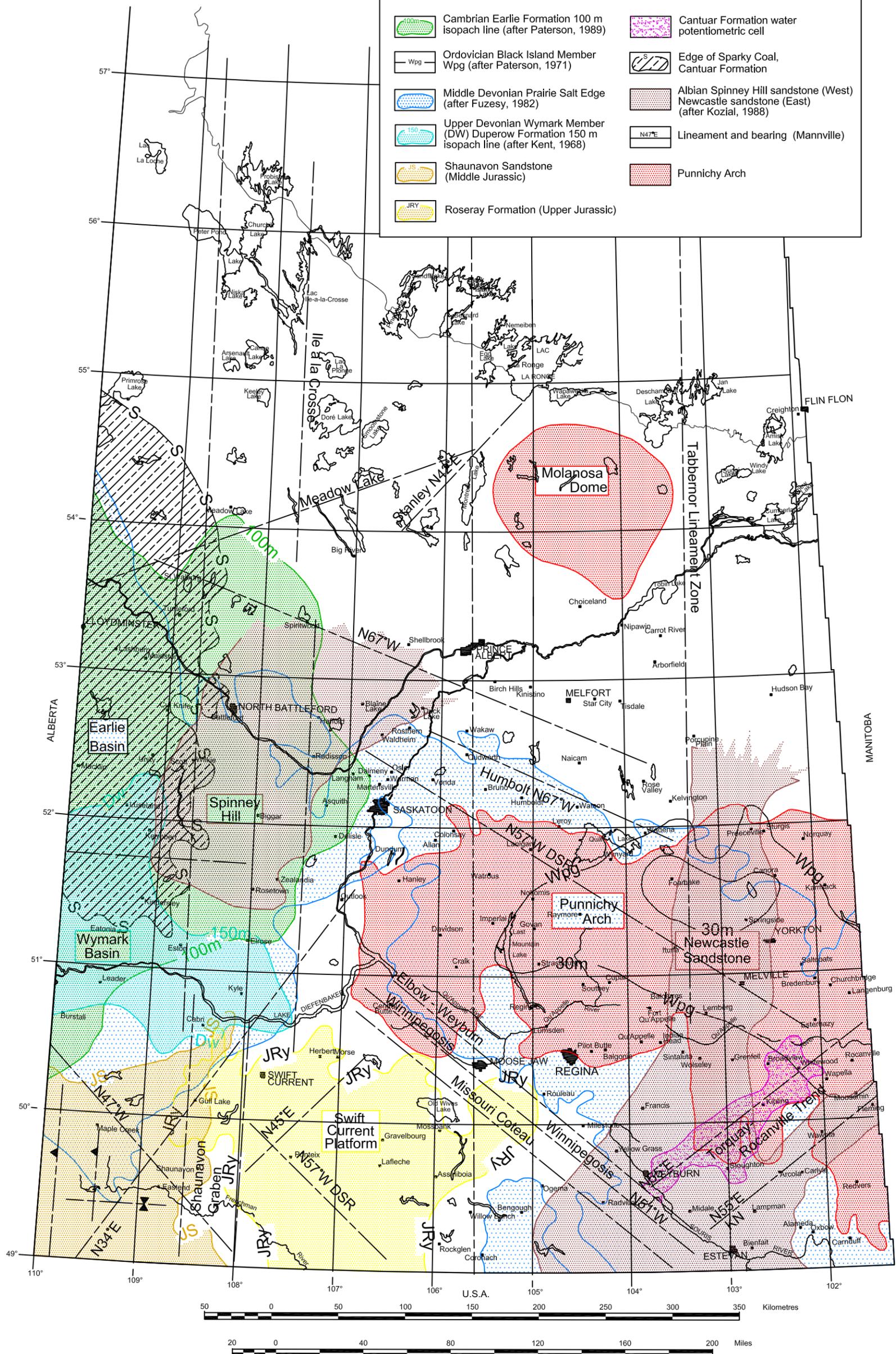
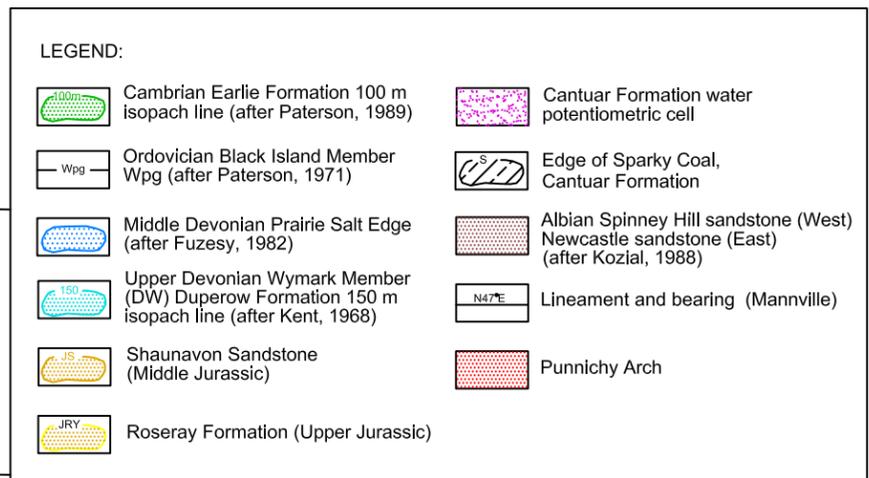


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Figure 50 - Major Phanerozoic lineaments and related structural
and sedimentary features, Saskatchewan



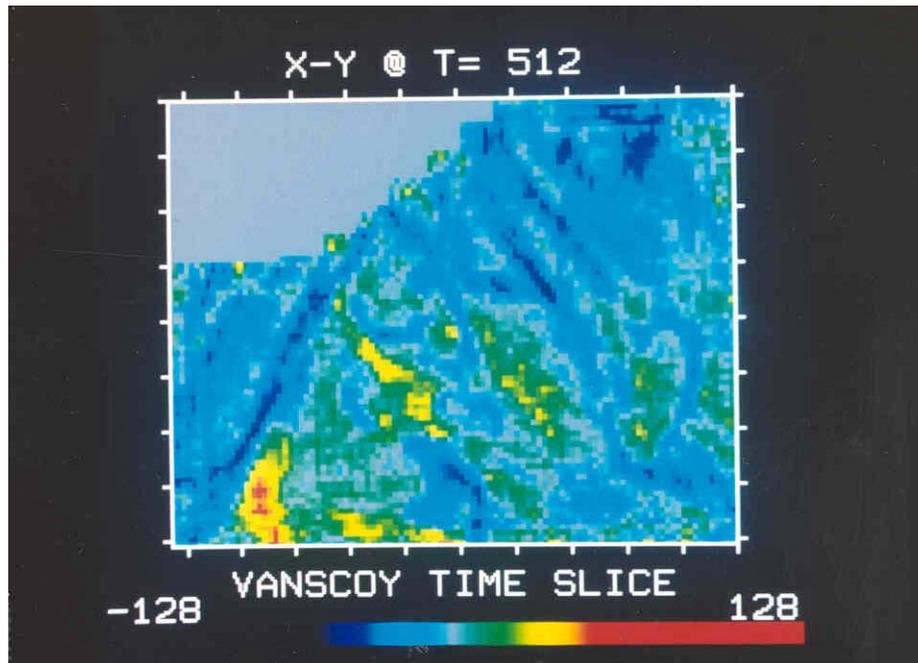
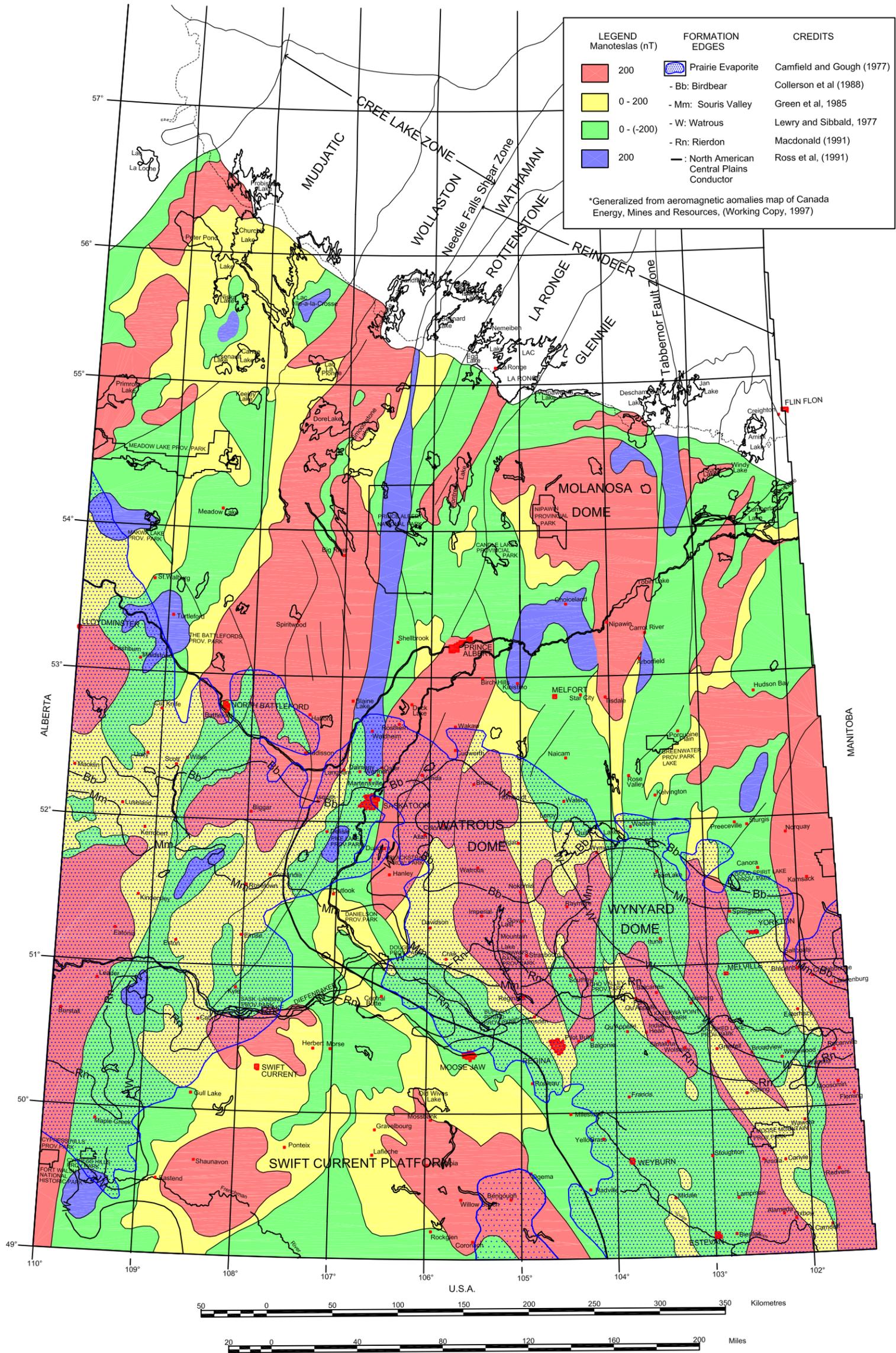


Figure 51 – Three-dimensional seismic time slice of the Cantuar Formation, bordering halves of Twp. 35 and 36, Rge. 8, W 3rd Mer., Saskatchewan; bearings depicted are 319°, 318°, 317°, 316°, and 028° (by permission of Cominco Ltd.).



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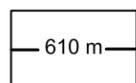
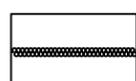
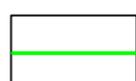
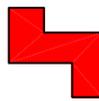
Figure 52 - Cantuar and other Phanerozoic structural and topographic elements on a background of Precambrian basement aeromagnetic patterns, Saskatchewan



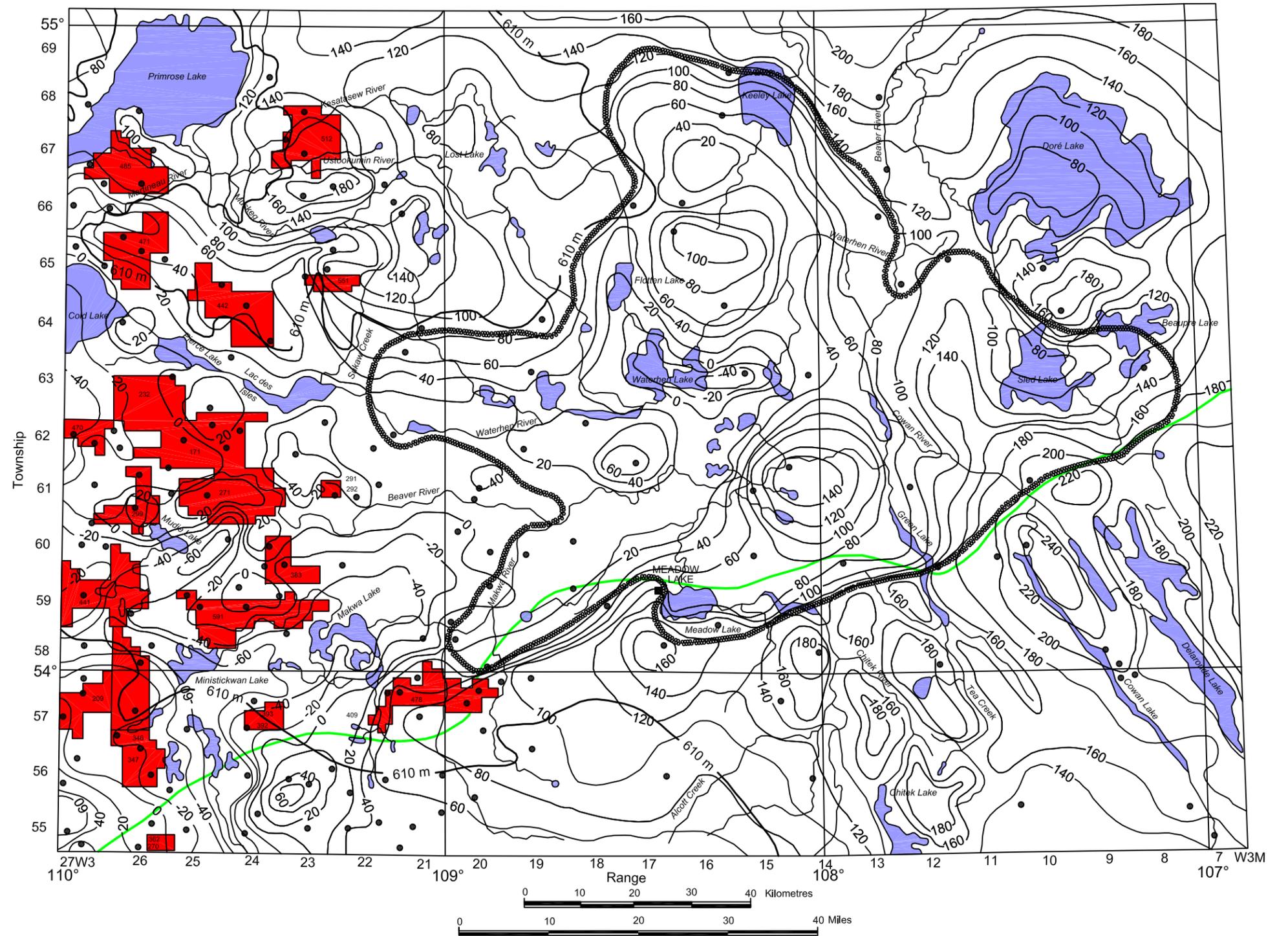
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Figure 53 - Structure contour map on the Upper Devonian Souris River Formation in the southwestern portion of the Mannville-Success Meadow Lake Basin, west-central Saskatchewan

Legend:

- 
 610 m Holocene topographic contour
- 
 Edge of Success Formation
- 
 Meadow Lake Escarpment
 (after Haidl, 1989, Kreis and Haidl, 2002)
- 
 Mannville natural gas fields
 (Saskatchewan Energy and Mines
 Reservoir Annual, 1999)

Contour Interval: 20 m





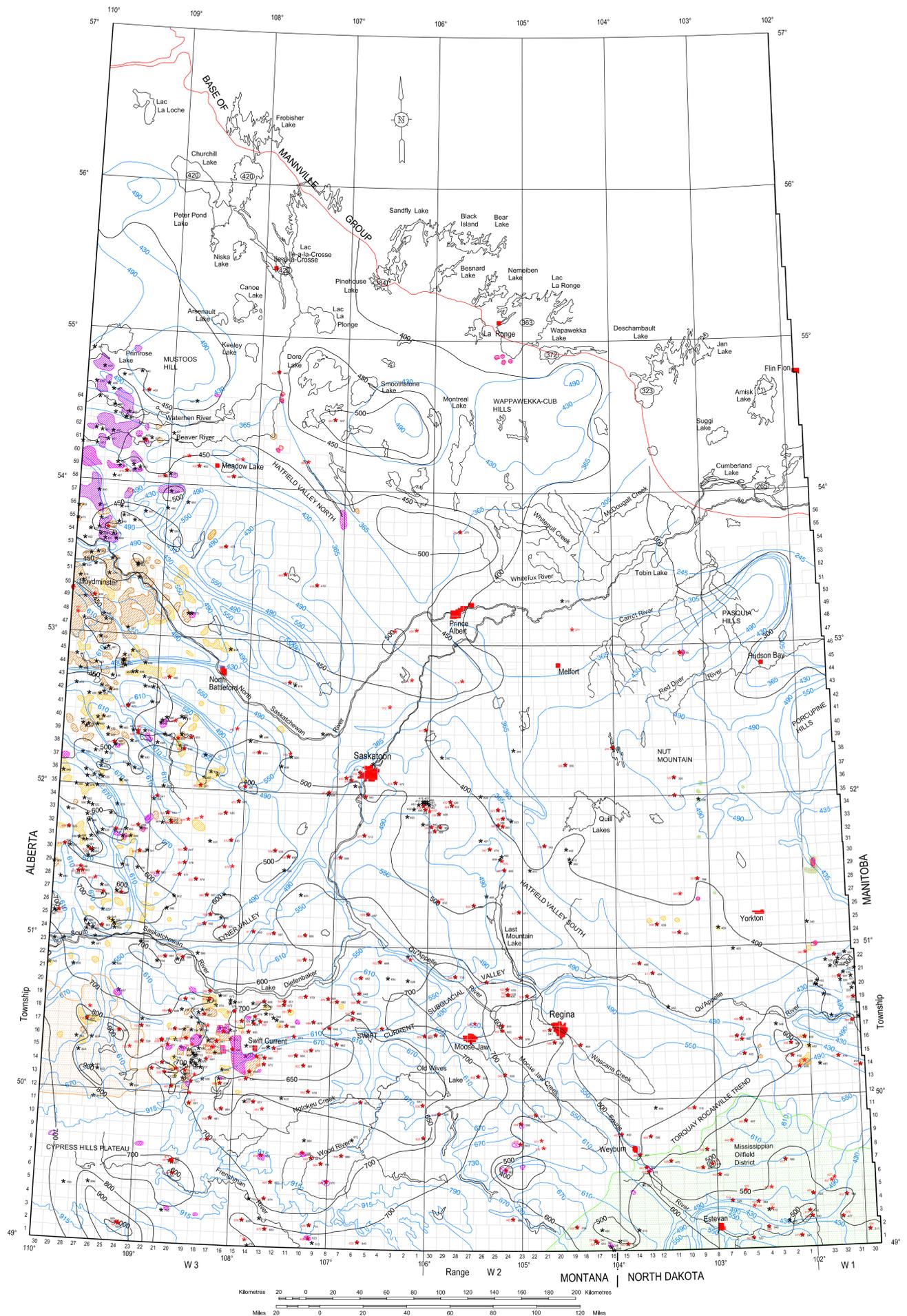
Saskatchewan
Industry and
Resources
Saskatchewan
Geological Survey

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Figure 55 - Formation-water potentiometric map
of the Mannville Group and elements of the
subglacial aquifer system, Saskatchewan

Legend:

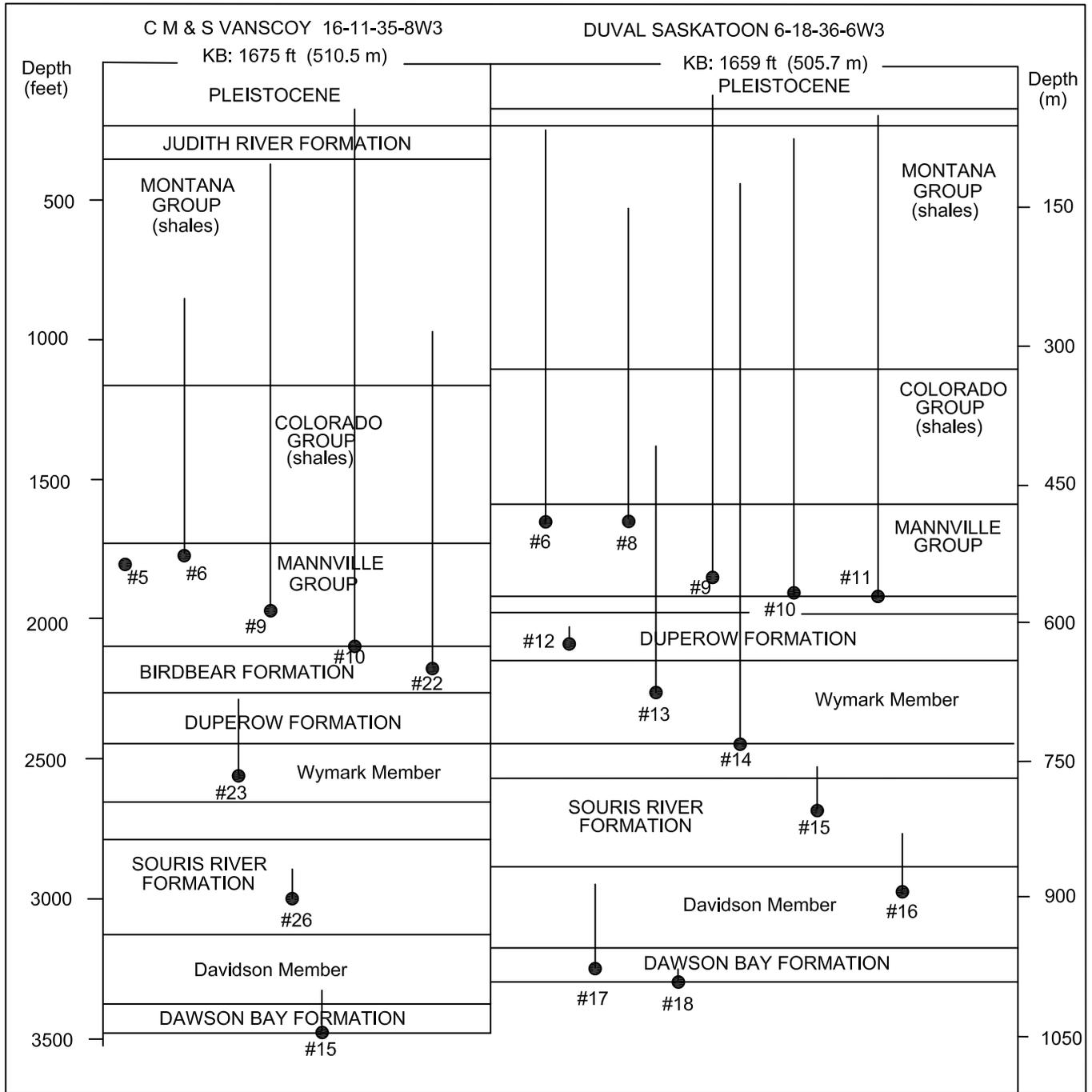
-  Gas pool
-  Gas show
-  Colorado gas and oil shows
-  Devonian oil shows in central eastern Saskatchewan
-  Oil pool
-  Oil show (Success-Mannville)
-  Oil and gas show
-  Potentiometric contours
(calculated to fresh water values, metres
a.s.l.)
-  Subglacial topographic form
lines(elevation in metres, a.s.l.)
(after Whitaker, S.H. and Pearson, D.E.,
1972)
-  Outline of Hatton gas-field district
-  Outline of Mississippian oilfield district
-  Potentiometric elevation - fresh water
(metres, msl)
-  Elevation of water in drill stem (metres,
msl)
-  Lake elevation





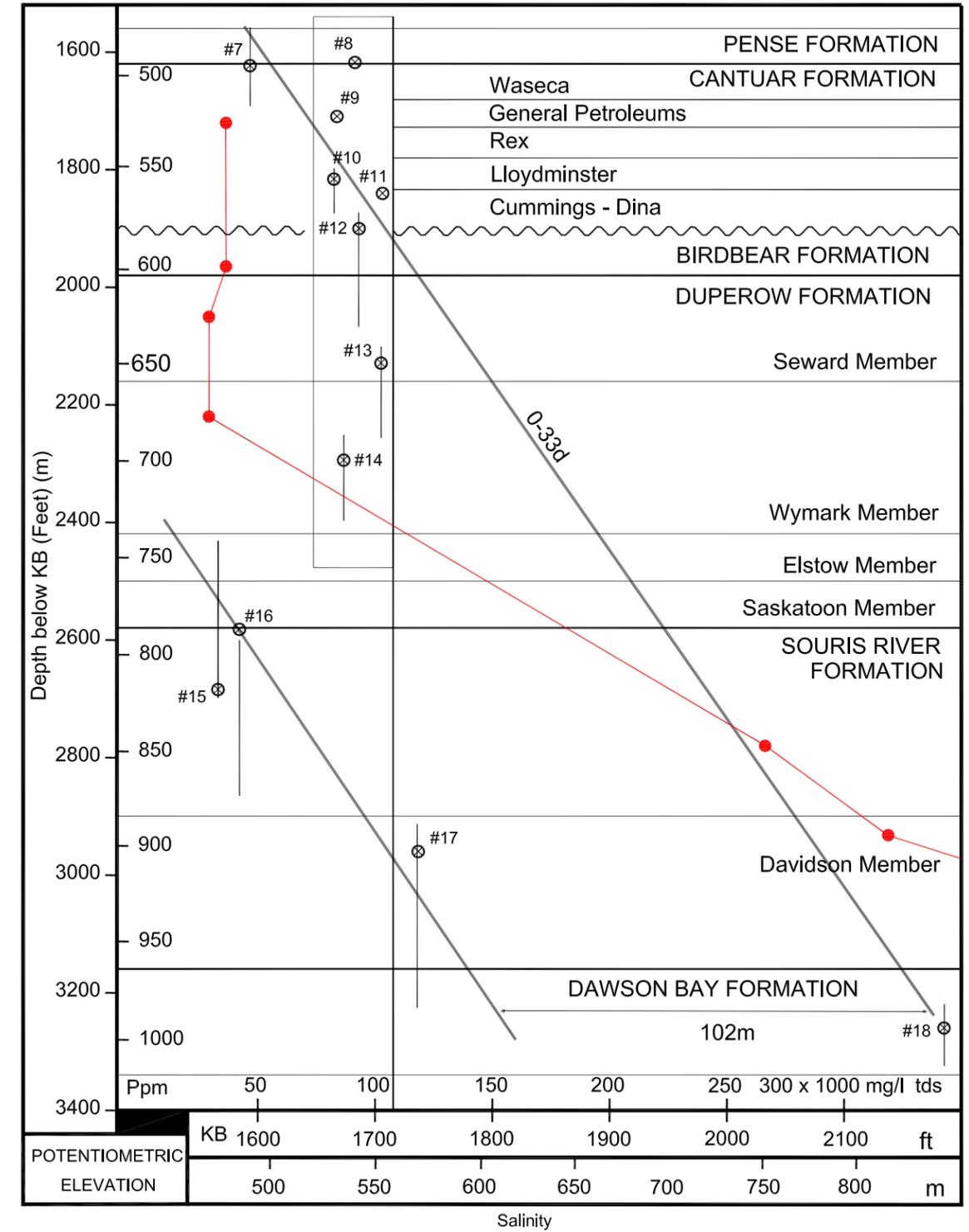
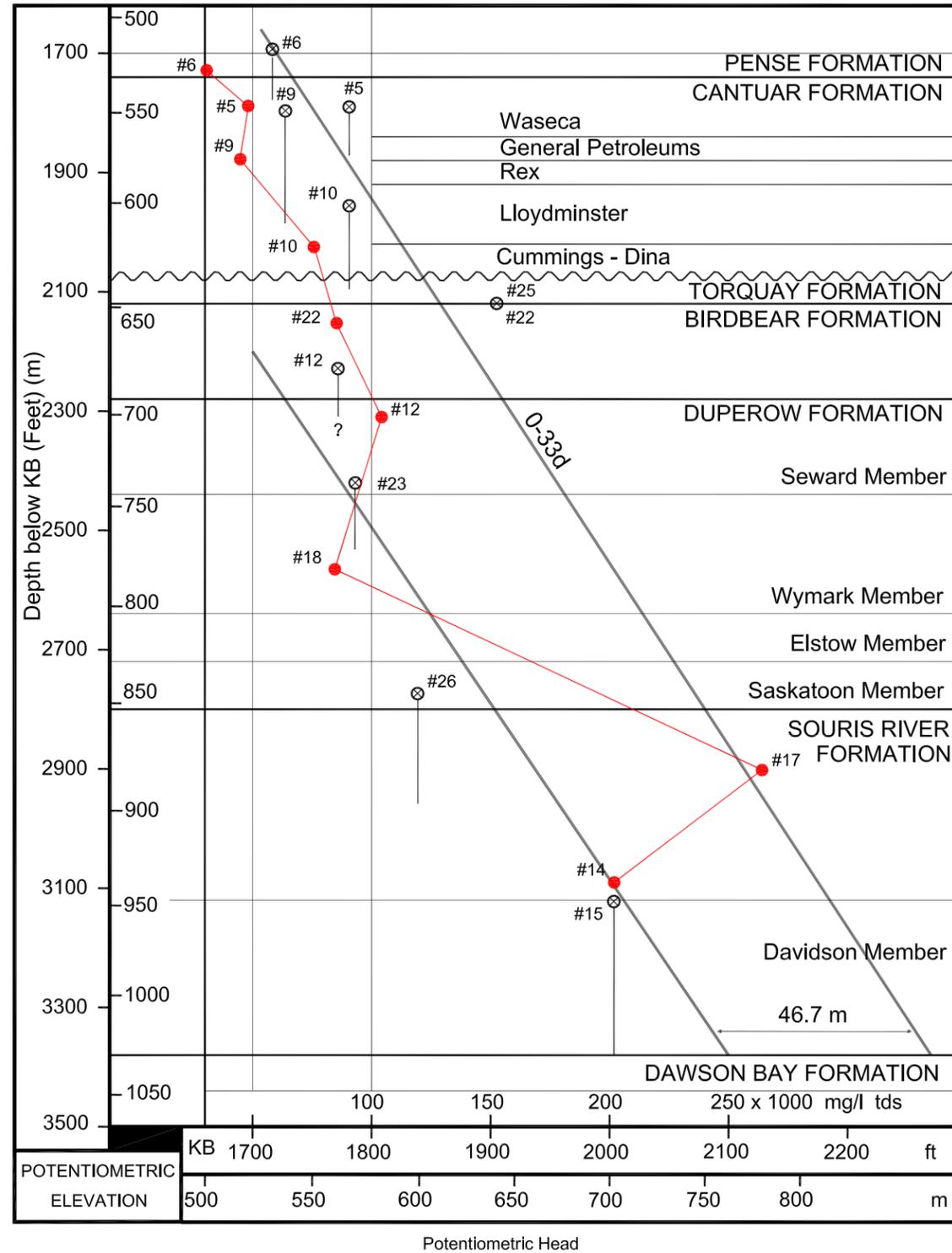
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Figure 56 - Rise of formation water in drill-stem tests of the Mannville and Devonian strata



Legend:

- Tds
- ⊗ Drill stem test intervals



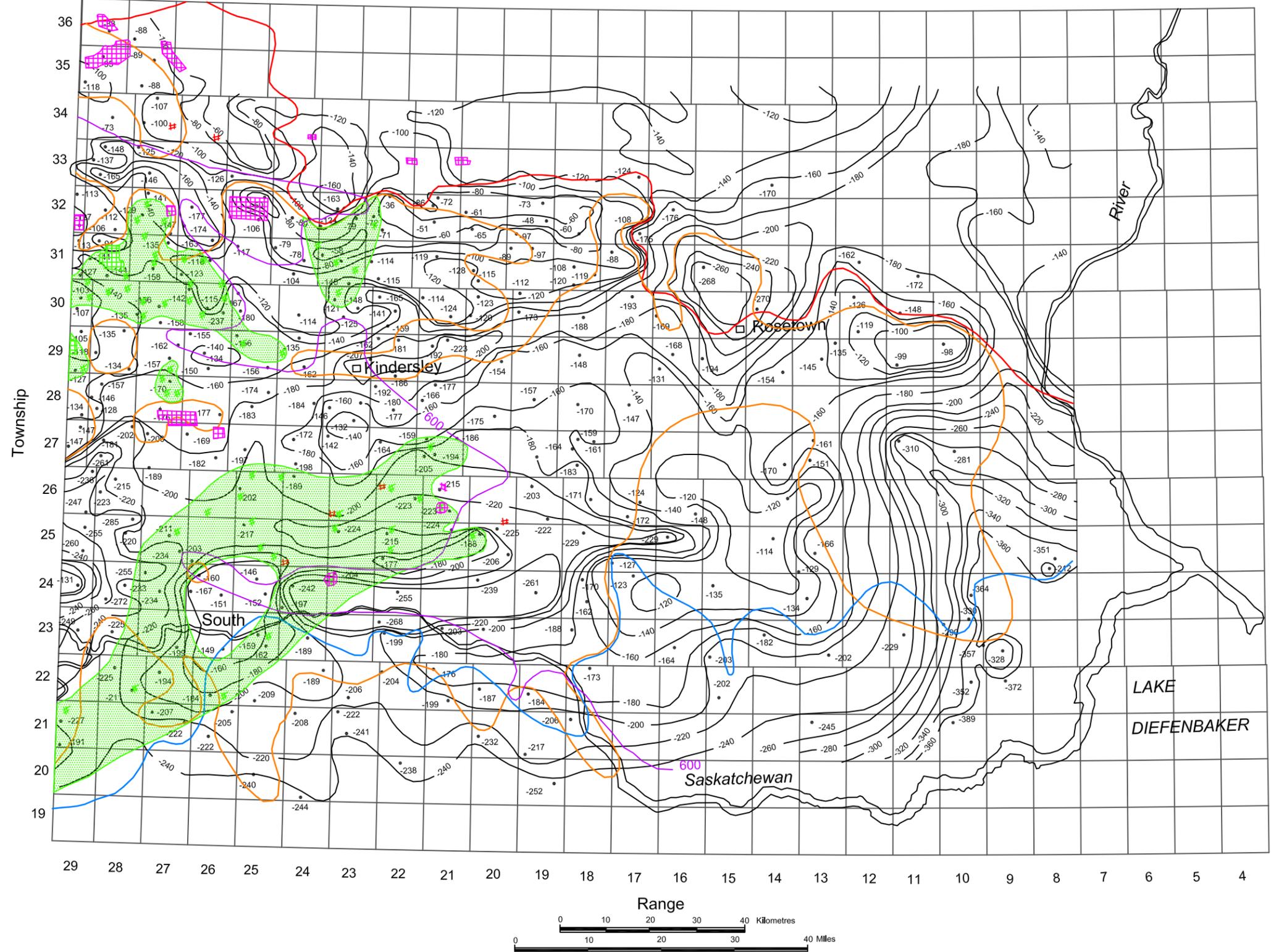


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Figure 58 - Distribution of oil shows in the Success and Mannville formations on the Kindersley structural terrace, Saskatchewan

Legend:

-  Erosional edge middle Jurassic Shaunavon-Gravelbourg formations
-  Erosional edge Jura-Cretaceous Success formation
-  Erosional edge Mississippian Madison formation
-  Oil show distributions in Success formation
-  Cretaceous Mannville oil pools and shows
-  Mississippian oil shows
-  -600 Potentiometric contours
-  Contours on the Paleozoic and Jurassic erosion surface; Contour Interval 20 m





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Figure 59 - Location of Mannville heavy-oil fields, Lloydminster area of Alberta and Saskatchewan

