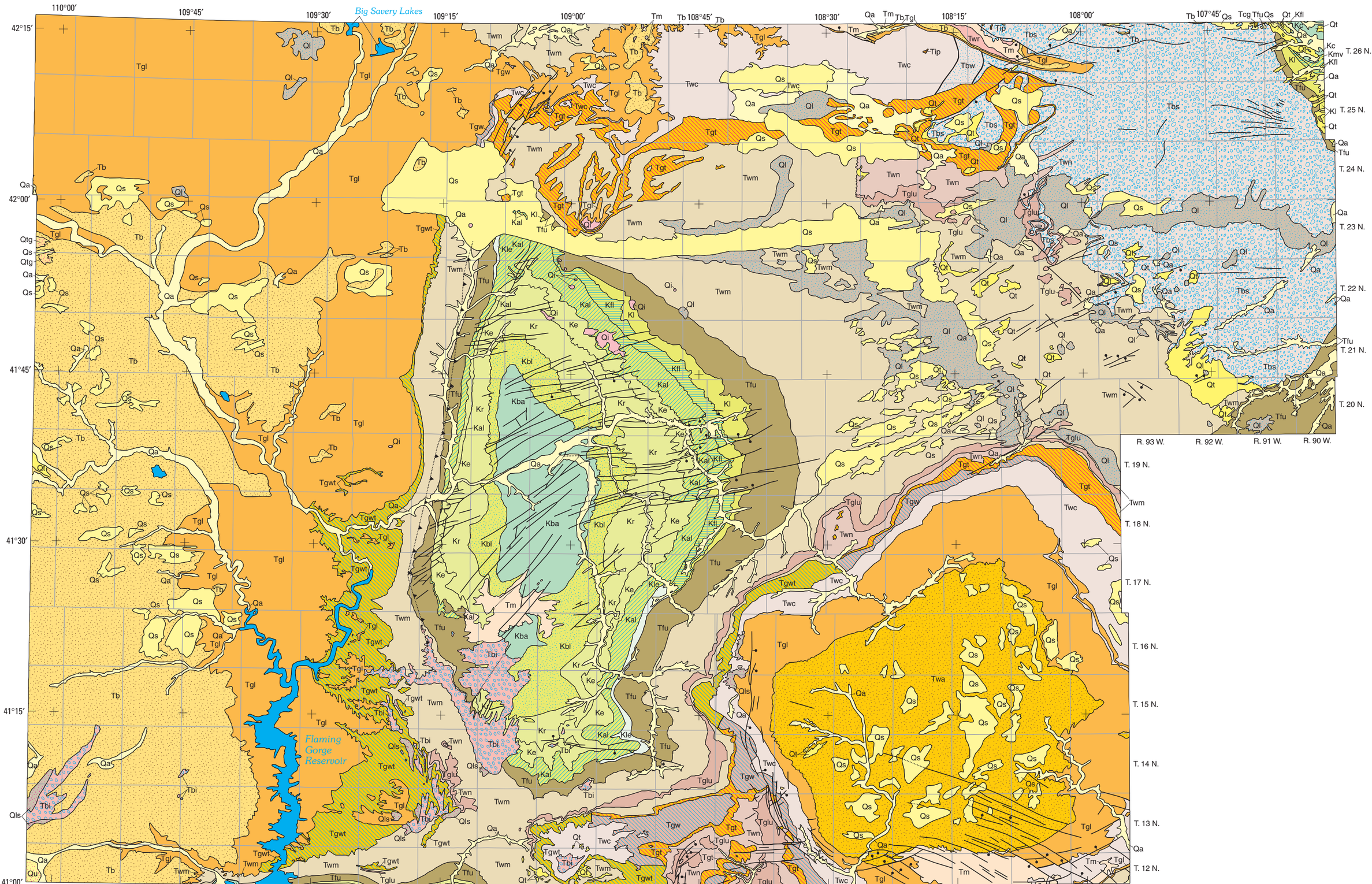
SCIENTIFIC INVESTIGATIONS REPORT 2004-5214

Bedrock geology, physiographic and structural features, and stratigraphic chart—PLATE 1A

Jon P. Mason and Kirk A. Miller, 2004, Water Resources of Sweetwater County, Wyoming



Planimetric base modified from U.S. Dept. of Commerce, Bureau of the Census digital data, 2001
Public land survey system from Wyoming Water Resources Center digital data, 1994
Hydrography modified from USGS National Hydrography Dataset (NHD) digital data, 1999
Lambert Conformal Conic projection
Standard parallels 41° and 42°, central meridian –108°45′

Geology from Love, J.D., and Christiansen, A.C., 1985

EXPLANATION

QUATERNARY UNCONSOLIDATED DEPOSITS AND IGNEOUS ROCKS

- Qa — Alluvium and colluvium
- Qt — Gravel, pediment, and fan deposits
- Qls — Landslide deposits
- Qs — Dune sand and loess
- Ql — Playa lake and other lacustrine deposits
- Qu — Undivided surficial deposits
- Qi — Alkalic extrusive and intrusive igneous rocks
- Qtg — Terrace gravel

TERTIARY SEDIMENTARY AND IGNEOUS ROCKS

- Tm — Miocene rocks
- Tbi — Bishop Conglomerate
- Twr — White River Formation
- Tip — Ice Point Conglomerate
- Twa — Washakie Formation
- Tb — Bridger Formation
- Tcg — Crooks Gap Conglomerate[1]

Green River Formation

- Tgl — Laney Member
- Tgw — Wilkins Peak Member
- Tgwt — Wilkins Peak Member and Tipton Shale Member or Tongue
- Tgt — Tipton Shale Member or Tongue
- Tglu — Luman Tongue

Wasatch Formation

- Twc — Cathedral Bluffs Tongue
- Twn — Niland Tongue
- Twm — Main body
- Tbw — Transitional unit between Battle Spring Formation and Wasatch Formation
- Tbs — Battle Spring Formation
- Tfu — Fort Union Formation

[1]The areal extent of the Crooks Gap Conglomerate in Sweetwater County is small and not shown on the stratigraphic chart.

MESOZOIC SEDIMENTARY ROCKS

- Kl — Lance Formation
- Kfl — Fox Hills Sandstone and Lewis Shale
- Kle — Lewis Shale

Mesaverde Group

- Kmv — Mesaverde Group undivided
- Kal — Almond Formation
- Ke — Ericson Sandstone
- Kr — Rock Springs Formation
- Kbl — Blair Formation
- Kc — Cody Shale
- Kba — Baxter Shale

WATER AREAS

CONTACT

FAULT--Dotted where concealed. Bar and ball on downthrown side

THRUST FAULT (CONCEALED)--Sawteeth on upper plate. Thrust fault approximately located on the basis of seismic data and drilling

PLATE 1A. BEDROCK GEOLOGY