

DESCRIPTION OF MAP UNITS

Quaternary

Qa **Eolian sand dunes (Holocene and/or Pleistocene)**—Unconsolidated deposits of wind-blown sand. Eolian deposits are widespread throughout the study area but only selected areas were mapped. Largest area is about 10 mi long and 3 mi wide in the Snake Hills (Fig. 1). Dunes vary in height from 10 to 100 ft. Dunes mapped from aerial photographs and some ground truthing on some surfaces. Locally includes caliche and alluvial fans.

Qb **Plains lake deposits (Holocene and/or Pleistocene)**—Unconsolidated, light-gray to red clay and silts. While shallower on some surfaces. Locally includes caliche and alluvial fans.

Qc **Alluvium (Holocene and/or Pleistocene)**—Unconsolidated clay, silt, sand, and gravel. Locally includes small plate deposits, alluvial fans, and slope wash. Alluvium mapped only along the Little Snake River and a few named creeks. Deposits in river channels and floodplains.

Qd **Gravel (Holocene and/or Pleistocene)**—Unconsolidated and generally unconsolidated sand and gravel deposited 40–200 ft above modern drainage. Gravel deposits mapped only where they obscure extensive areas of bedrock or contain clast lithology and are not mapped. North of the Dard arch, the gravel is composed of quartzite, quartzite, chert, and sand and were interpreted as pediment deposits by Sanders (1974, 1977). Gravel along the Little Snake River consists of sand, pebbles, cobbles, and boulders deposited on terraces. Boulders are as much as 18 in diameter and consist of quartzite, intermediate igneous rock, and basalt. Pebbles and cobbles are composed of quartzite, mafic igneous rock, and chert. Some are quartzite covered by caliche.

Qe **Landslide deposits (Holocene and/or Pleistocene)**—Shallow debris of sand and clast of bedrock; mostly in areas of steep topography where bedrock is exposed by sloughing.

Sedimentary Rocks

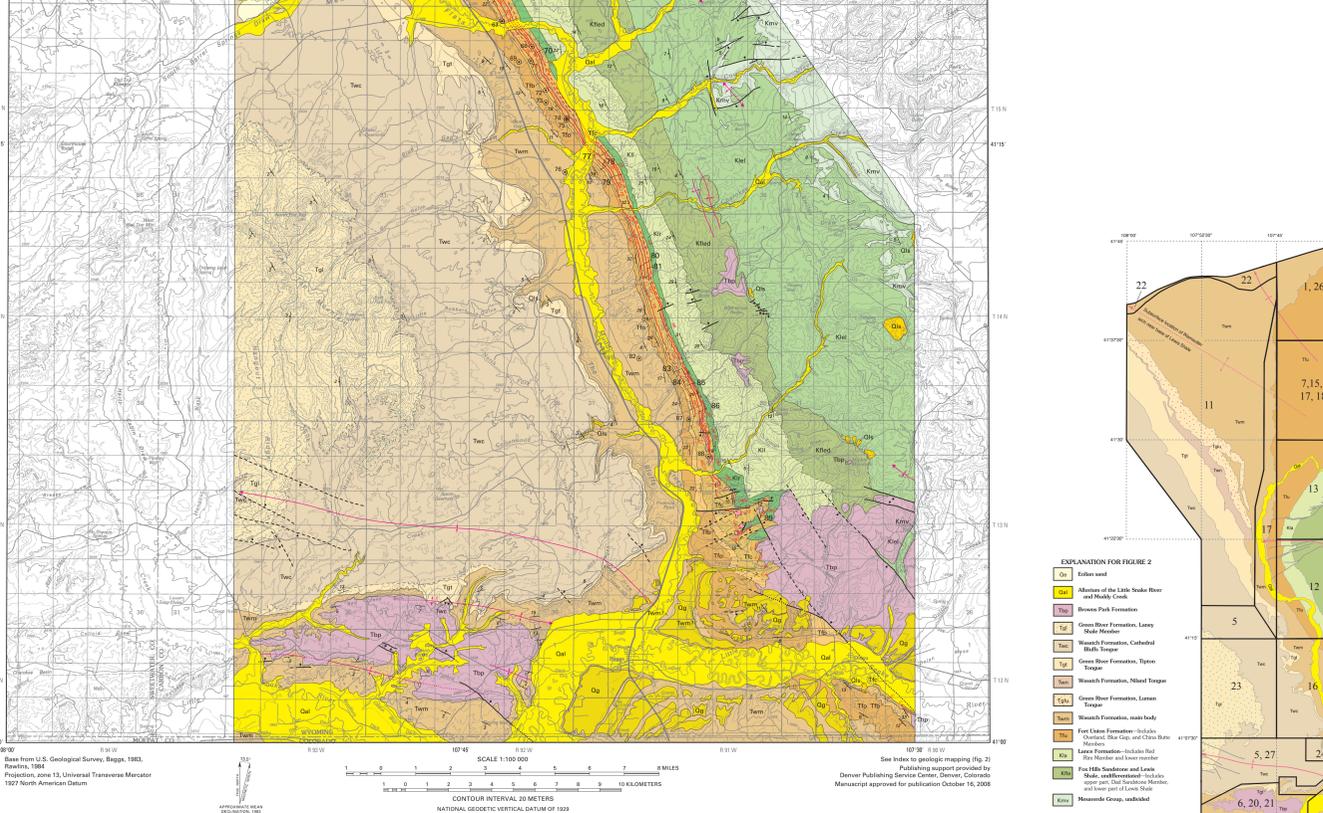
Tm **Brown Park Formation (Holocene and Oligocene)**—Consists of a fine-grained member that generally overlies, but locally intertongues with, a basal conglomerate member. The basal conglomerate member is unconsolidated and is composed of rounded to subrounded pebbles of quartzite, granite, and mafic igneous rock. The basal conglomerate member is unconsolidated and is composed of rounded to subrounded pebbles of quartzite, granite, and mafic igneous rock. The basal conglomerate member is unconsolidated and is composed of rounded to subrounded pebbles of quartzite, granite, and mafic igneous rock.

Tn **Wenatch Formation (Eocene)**—Includes the Hart Cabin Bed of the Laramie Member as well as units equivalent to the Golden River Member of the Green River Formation (Bohler, 1989). These units are collectively mapped as the Laramie Member in this report. The upper part of the unit is not exposed in the study area. The lower contact is conformable. Approximately 1,050 ft of the Laramie Member (including strata equivalent to the Golden River Member) are estimated to be preserved in outcrop in North Flg. 1.

Tp **Green River Formation (Eocene)**—Includes the Hart Cabin Bed of the Laramie Member as well as units equivalent to the Golden River Member of the Green River Formation (Bohler, 1989). These units are collectively mapped as the Laramie Member in this report. The upper part of the unit is not exposed in the study area. The lower contact is conformable. Approximately 1,050 ft of the Laramie Member (including strata equivalent to the Golden River Member) are estimated to be preserved in outcrop in North Flg. 1.

Tq **Wenatch Formation (Eocene)**—Includes the Hart Cabin Bed of the Laramie Member as well as units equivalent to the Golden River Member of the Green River Formation (Bohler, 1989). These units are collectively mapped as the Laramie Member in this report. The upper part of the unit is not exposed in the study area. The lower contact is conformable. Approximately 1,050 ft of the Laramie Member (including strata equivalent to the Golden River Member) are estimated to be preserved in outcrop in North Flg. 1.

Figure 1. Index map showing locations of townships, selected geographic features, and drill holes referred to in this report. Inset shows location of Rawlins-Little Snake River study area (labeled) and major structural features in the Greater Green River Basin, Wyoming, Colorado, and Utah.



SOURCES OF GEOLOGIC DATA

1. Block, J.M., U.S. Geological Survey, unpublished but not reviewed, 1970, and 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 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