WYOMING STATE GEOLOGICAL SURVEY
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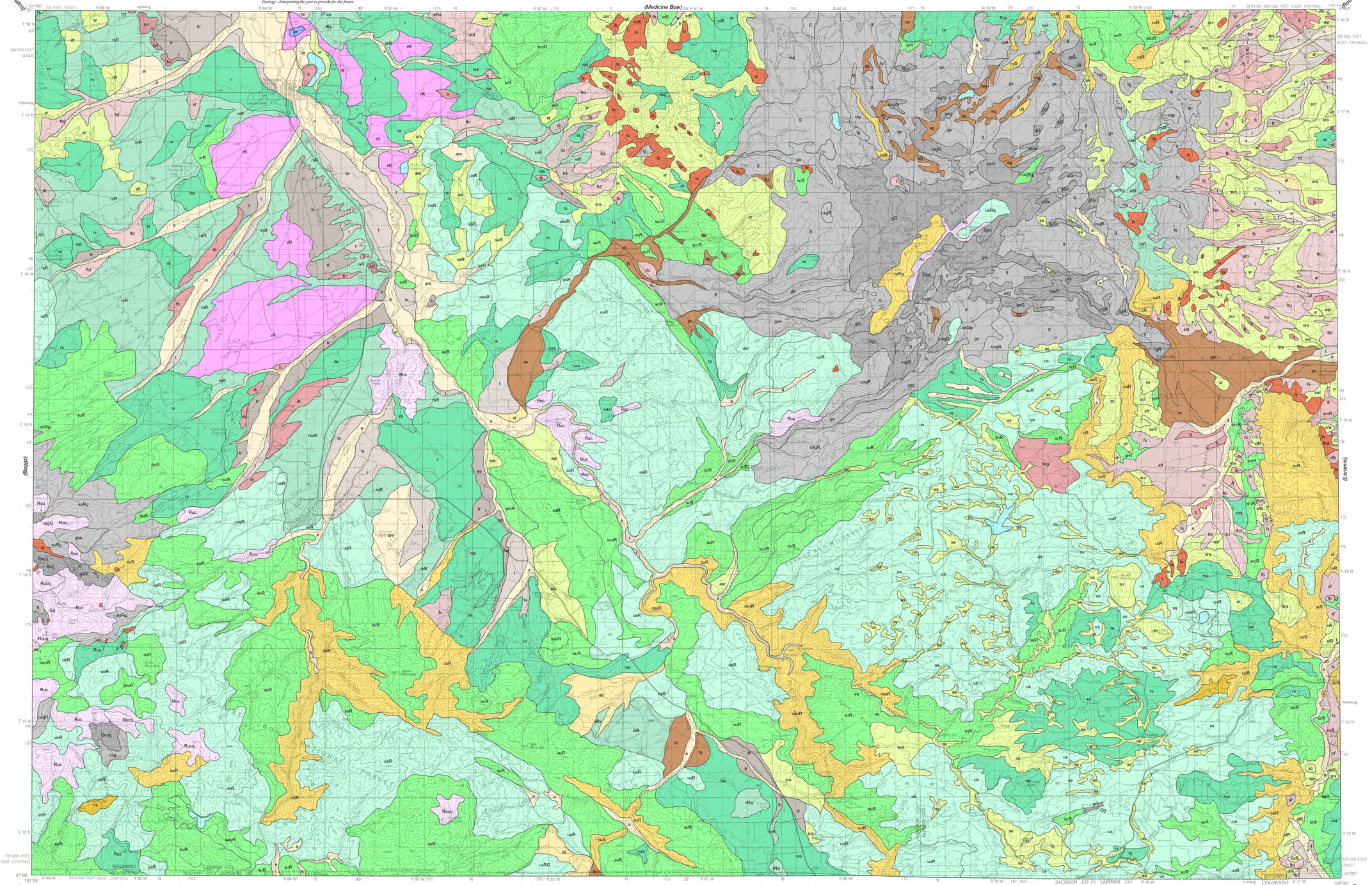
Laramie, Wyoming

Geology - Interpreting the past to provide for the future

Prepared in cooperation with the U.S. GEOLOGICAL SURVEY

OPEN FILE REPORT 05-2
Saratoga 1:100,000 - scale Surficial Geologic Map



CLASSIFICATION OF MAP UNITS

Alluvial Deposits

Alluvium

Alluvium, and alluvium mixed with either residuum or residuum and slopewash (101)
(a, ar, ars)

Alluvium mixed with terrace deposits or terrace deposits and residuum (102)
(at, atr)

Alluvial Fan Deposits

Alluvial fan deposits and alluvial fan deposits mixed with slopewash, alluvium, and/or terrace deposits (201)
(af, afi, f, fa, fi, fsa, sf)

Alluvial fan deposits grading into bench deposits or terrace deposits, or alluvial fan deposits mixed with slopewash, residuum, and/or bench deposits (202)
(fb, fl, ftr, sfb)

Alluvial fan deposits grading into dissected bench deposits (203)
(fbd)

Alluvial fan deposits that grade into dissected terrace deposits and dissected alluvial fan deposits mixed with slopewash (204)
(fhd, sfd)

Bench Deposits

Bench deposits, bench deposits mixed with slopewash and glacial deposits, and bench deposits mixed with residuum (401)
(b, bsg, rb)

Dissected bench deposits (402)
(bd)

Terrace Deposits

Terrace deposits and terrace deposits mixed with alluvium (601)
(t, ta)

Dissected terrace deposits and dissected terrace deposits mixed with residuum (602)
(td, tdr)

Shallow terrace deposits with residuum and/or eolian deposits and structural terrace mixed with residuum (603)
(rt, Tr, tr, tre)

Landslide Deposits

Landslides and landslides mixed with alluvium or slopewash (801)
(l, la, ls)

Playa Lake and Playa Lake Deposits

Playa lake and eolian deposits, often occurring in a deflation hollow (1001)
(ap, pe)

Slopewash

Slopewash mixed with residuum, alluvium, eolian deposits, alluvial fan deposits, grus, and/or colluvium (1101)
(as, asr, sa, sar, scr, sfr, sr, sra, src, srg, su, sua)

Slopewash mixed with scattered bedrock outcrops and alluvial fan, periglacial, and glacial deposits, alluvium, grus, and colluvium (1102)
(scR, scRq, scuR, sfR, srcR, srR, sraR, saR, sauR, suR, suRg, sucR, suaR)

Colluvium

Colluvium or colluvium mixed with slopewash (1201)
(c, cs)

Colluvium mixed with scattered bedrock outcrops and slopewash, grus, and/or periglacial deposits (1202)
(cR, csR, csRq, csuR, cuR)

Glacial Deposits

Glacial outwash mixed with alluvium, glacial deposits, and/or terrace deposits (1301)
(ag, ao, go, to)

Glacial deposits and glacial deposits mixed with alluvium, colluvium, slopewash, residuum, and landslide deposits (1302)
(csg, g, ga, gs, gsa, lg, rsg, sag)

Glacial deposits mixed with scattered bedrock outcrops and colluvium, slopewash, residuum, and/or grus (1303)
(csgR, srRg, suRg, usgR)

Glacial deposits and glaciated bedrock mixed with colluvium and/or slopewash; glacial deposits mixed with scattered bedrock and residuum; and glaciated bedrock mixed with slopewash and grus (1304)
(csgG, cgR, gG, Ggc, gGc, gGs, gsG, Gcg, Gcsg, sgG, rgR, usG)

Residuum

Residuum or residuum mixed with slopewash, alluvium, periglacial deposits, and/or grus (1401)
(r, ra, ras, rs, rsa, rsq, ru, rus, uas)

Residuum mixed with scattered bedrock outcrops and slopewash, and/or alluvium (1402)
(raR, rRa, rsR, rsRa, rsaR)

Grus mixed with slopewash and/or residuum; grus mixed with scattered bedrock or glaciated bedrock outcrops and slopewash, alluvium, periglacial deposits, and/or residuum; and grus mixed with scattered bedrock outcrops, glaciated bedrock, and slopewash (1404)
(usR, us, usaR, usGq, usr, usR, usRq, usRG)

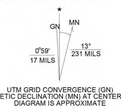
Bedrock

Bedrock mixed with colluvium, slopewash, grus, and/or glacial and periglacial deposits (1501)
(Rc, Rcu, Rcug, Rcuq, Ruc, Rucq, Rus)

Bedrock or upturned truncated bedrock with a thin mantle of eolian deposits, residuum, and/or slopewash (1502)
(rR)

Base map from U.S. Geological Survey 1:100,000-scale metric topographic map of the Saratoga, Wyoming - Colorado Quadrangle, 1982

Projection: Universal Transverse Mercator (UTM), zone 13
North American Datum of 1927 (NAD 27)
10,000-meter grid ticks: UTM, zone 13
25,000-foot grid ticks: Wyoming State Plane Coordinate System, east central and east zones



UTM GRID CONVERGENCE (GN)
1982 MAGNETIC DECLINATION (MN) AT CENTER OF SHEET
DIAGRAM IS APPROXIMATE

0 1 2 4 6 8 10 12 14 16 18 20 Kilometers

0 1 2 4 6 8 10 12 Miles

SCALE 1:100,000
Contour Interval 20 meters

0 2,000 4,000 6,000 8,000 10,000 12,000 14,000 16,000 18,000 20,000 Meters

0 5,000 10,000 15,000 20,000 25,000 30,000 35,000 40,000 45,000 50,000 55,000 60,000 65,000 Feet

Prepared in cooperation with the U.S. Geological Survey, National Cooperative Geologic Mapping Program, under Cooperative Agreement Number 04HQAGO045.

Digital cartography by Alice J. Vogelmann.

PRELIMINARY SURFICIAL GEOLOGIC MAP OF THE SARATOGA 30' x 60' QUADRANGLE, CARBON AND ALBANY COUNTIES, WYOMING, AND NORTHERN COLORADO

Compiled and mapped by

Laura L. Hallberg and James C. Case

2005

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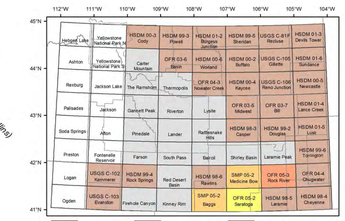

KEY TO ABBREVIATIONS

U.S. Geological Survey maps: Coal Investigations Series (C). Wyoming State Geological Survey maps: Open File Report (OFR), Hazards Section Digital Map (HSDM), and unpublished STATEMAP project (SMP).

INDEX TO 1:100,000 SCALE SURFICIAL GEOLOGIC MAPS OF WYOMING

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