WYOMING STATE GEOLOGICAL SURVEY
Laramie, Wyoming

Geology - Interpreting the past to provide for the future

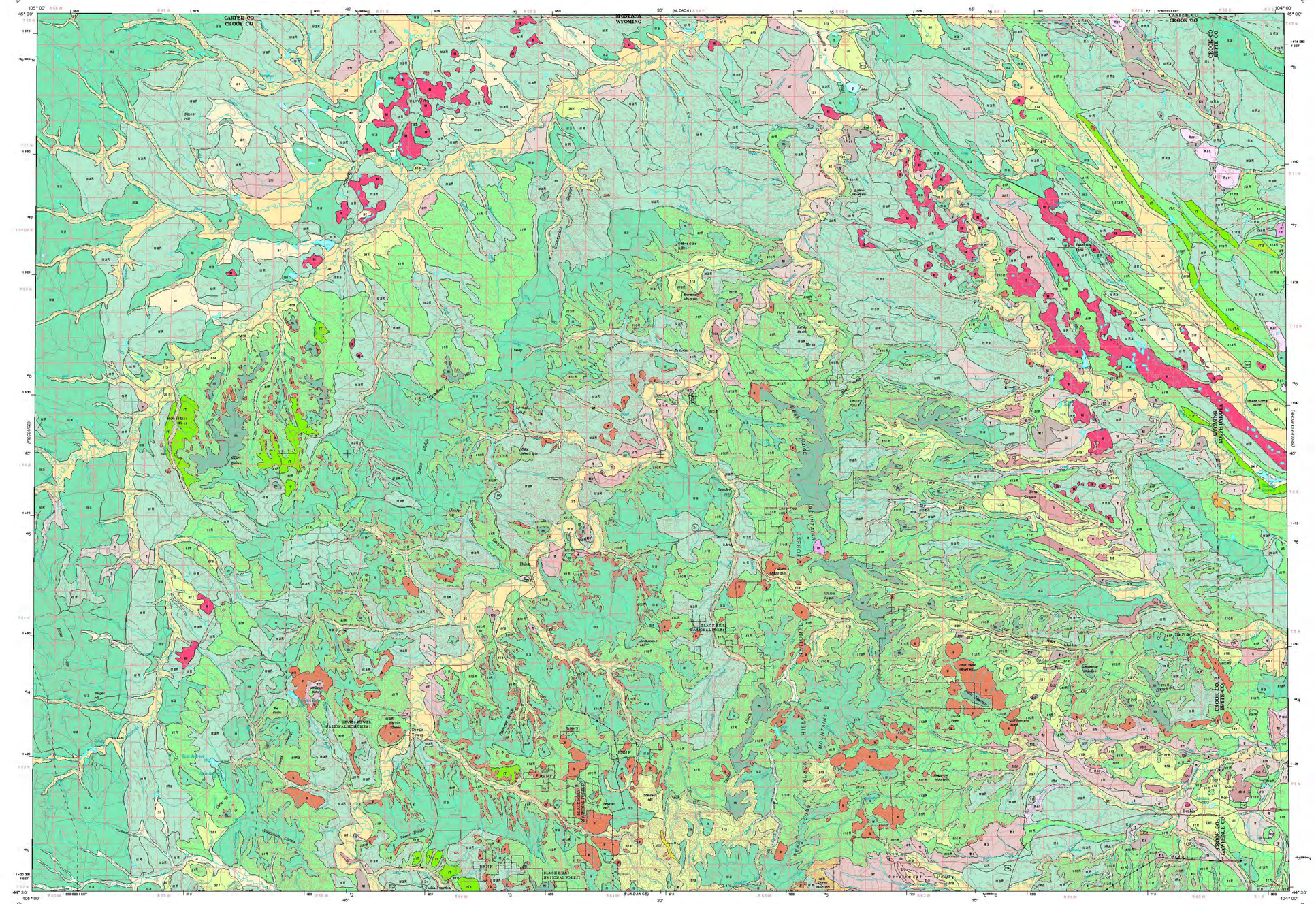
USGS
science for a changing world

Prepared in cooperation with the
U.S. GEOLOGICAL SURVEY

Geologic Hazards Section Digital Map 01-3 (HSDM 01-3)

Preliminary Devils Tower Wyoming Surficial Geologic Map

1:100,000-Scale Series



Blue 10 000-meter ticks: Universal Transverse Mercator, zone 13
25 000-foot grid ticks: Wyoming Coordinate System of 1927, East zone

Digital public land survey, boundaries, hydrography, hypsography, and transportation by the U.S. Geological Survey, various years

UTM GRID
DECLINATION AT CENTER OF SHEET
DIAGRAM IS APPROXIMATE

SCALE 1:100 000

KILOMETERS

MILES

FEET

GENERALIZED LOCATION

Produced with QuadView by Geoware

This report is preliminary and has not been reviewed for conformity with Wyoming State Geological Survey editorial standards

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CLASSIFICATION OF MAP UNITS

Alluvial Deposits

Alluvium

- Alluvium and alluvium mixed with residuum, lacustrine deposits, and/or slopewash (a, ar, ars, awr)
- Alluvium mixed with terrace deposits with slopewash and/or residuum (at, atr, atsr)

Alluvial Fan Deposits

- Alluvial fan deposits mixed with slopewash, alluvium, and/or residuum (af, afr, afs, asf, f, fsa, fsr, sf, sfa, sfr)
- Alluvial fan deposits grading into bench deposits or terrace deposits, mixed with slopewash (fb, ft, fts, sft)
- Alluvial fan deposits grading into dissected bench deposits (fbd)
- Dissected alluvial fan deposits that grade into terrace deposits, mixed with slopewash (ftds)

Bench Deposits

- Bench deposits (b)
- Dissected bench deposits and dissected bench deposits mixed with slopewash (bd, bds, sbd)

Bench Deposits or mesa caprock undifferentiated

- Bench deposits/mesa caprock with a thin cover of residuum (rb/m)

Terrace Deposits

- Terrace deposits and terrace deposits mixed with alluvium, and/or slopewash (t, ta, ts)
- Dissected terrace deposits and dissected terrace deposits mixed with slopewash, and/or residuum (std, td, tdr, tds)
- Terrace mixed with residuum (tr)

Landslide Deposits

- Landslide deposits with slopewash (l, ls, slf)

Playa Lake and Playa Lake Deposits

- Playa lake deposits (p)

Slopewash

- Slopewash mixed with residuum, alluvium and/or colluvium (as, asr, sa, sar, scr, sr, sra, src)
- Slopewash mixed with scattered bedrock outcrops and residuum, alluvium, and/or colluvium (asR, saR, sarR, scR, scrR, sR, sraR, srcR, srR, srRa)

Colluvium

- Colluvium mixed with scattered bedrock outcrops and slopewash (csR)

Residuum

- Residuum mixed with slopewash and alluvium (r, ra, ras, rs, rsa)
- Residuum mixed with scattered bedrock outcrops, slopewash, and alluvium (raR, rasR, rRa, rRs, rsaR, rsR, rsRa)

Mesa

- Mesa caprock mixed with a thin cover of residuum (rm)

Bedrock

- Bedrock mixed with colluvium, slopewash, residuum (Rc, Rcs, Rrs, Rrsc, Rsc, Rsr)
- Bedrock or unburned truncated bedrock with a thin mantle of residuum or slopewash (rR, sR)

Karst

- Karst areas (Krs)

Structural terrace/ terrace deposits

- Structural terrace/ terrace deposits with a mantle of residuum, mixed with slopewash (rT, rTs, rTA)
- Dissected structural terrace with a mantle of residuum (rTd)

Mined Areas

- Mined areas M

Volcanic neck

- Volcanic neck v

Lake

- Lake

PRELIMINARY DIGITAL SURFICIAL GEOLOGIC MAP OF THE DEVILS TOWER 30' x 60' QUADRANGLE, CROOK COUNTY, WYOMING AND WESTERN SOUTH DAKOTA, SOUTHEASTERN MONTANA

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