WYOMING STATE GEOLOGICAL SURVEY
Lance Cook, State Geologist
Laramie, Wyoming

Geology - Interpreting the past to provide for the future

Prepared in cooperation with the U.S. GEOLOGICAL SURVEY

Geologic Hazards Section Digital Map 01-6 (HSDM 01-6)
Preliminary Sundance Wyoming Surficial Geologic Map
1:100,000-Scale Series

CLASSIFICATION OF MAP UNITS

Alluvial Deposits

Alluvium

Alluvium and alluvium mixed with slopewash, residuum, and/or eolian deposits
(a, asre)

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

Alluvial Fan Deposits

Alluvial fan deposits mixed with slopewash, alluvium, and/or residuum
(af, afr, afs, asf, f, fs, fsa, sf, sfa, sfar, sfr)

Alluvial fan deposits grading into terrace deposits or bench deposits mixed with slopewash
(fb, ft, fts, stf)

Alluvial fan deposits grading into dissected bench deposits, mixed with slopewash
(fbd, ftds)

Dissected alluvial fan deposits that grade into terrace deposits, mixed with slopewash and/or residuum
(fdr, fdsr, ftd, ftdr, ftds, stfd)

Bench Deposits

Bench deposits and bench deposits mixed with residuum
(b, br)

Dissected bench deposits and dissected bench deposits mixed with slopewash
(bd, bds)

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
(td, tdr, tds)

Shallow terrace deposits mixed with residuum
(tr)

Eolian Deposits

Eolian deposits and eolian deposits mixed with residuum and/or slopewash
(e, ers)

Landslide Deposits

Landslides and landslide deposits mixed with slopewash and/or residuum
(l, ls, srl)

Mesa

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

Slopewash

Slopewash and slopewash mixed with residuum, alluvium and/or colluvium
(as, asr, s, sa, sar, scr, sr, sra, src)

Slopewash mixed with scattered bedrock outcrops and residuum, alluvium, alluvial fan deposits, and/or colluvium
(saR, scR, scrR, sfR, sraR, srcR, srR)

Colluvium

Colluvium mixed with scattered bedrock outcrops and slopewash
(csR)

Residuum

Residuum mixed with slopewash, alluvium, and/or eolian deposits
(r, ra, rae, ras, res, rs, rsa, rsae, rse)

Residuum mixed with scattered bedrock outcrops and slopewash, alluvium, and/or colluvium
(raR, rasR, rRs, rsaR, rscR, rsR, rsRa)

Bedrock

Bedrock mixed with colluvium, slopewash, residuum, and/or alluvial deposits
(R, Rcs, Rcsr, Rrs, Rrsa, Rs, Rsr)

Bedrock with a thin mantle of residuum,
(rR)

Structural terrace/terrace deposits

Structural terrace with a mantle of residuum, and/or slopewash
(rT, rTs)

Clinker

Clinker mixed with residuum, alluvium and/or slopewash
(krs, rsk)

Clinker mixed with scattered bedrock outcrops slopewash and residuum
(rRsk, rsRk)

Karst

Karst mixed with residuum and alluvial deposits
Karst (arK)

Mined Areas

Mined (M)

Lake

Lake

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. Geologic Survey, various years

GN
8°21'
E MILS

UTM GRID
DECLINATION AT CENTER OF SHEET
DIAGRAM IS APPROXIMATE

SCALE 1:100 000
KILOMETERS
MILES
FEET

WYOMING

QUADRANGLE LOCATION

Produced with QuadView by Geoware

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

Prepared in cooperation with the U.S. Geological Survey, National Cooperative Geologic Mapping Program, under Cooperative Agreement Number 00HQAG0123

PRELIMINARY DIGITAL SURFICIAL GEOLOGIC MAP OF THE SUNDANCE 30' x 60' QUADRANGLE, CROOK AND WESTON COUNTIES, WYOMING, AND SOUTHWESTERN SOUTH DAKOTA

mapped and compiled by
Laura L. Halberg and James C. Case, 1999
digital cartography by
Bret L. Noecker, 2001