WYOMING STATE GEOLOGICAL SURVEY
Laramie, Wyoming

Geologic Hazards Section Digital Map 01-05 (HSDM 01-05)

Preliminary Lusk Wyoming Surficial Geologic Map

1:100,000-Scale Series

CLASSIFICATION OF MAP UNITS

Alluvial Deposits

Alluvium
- Alluvium and alluvium mixed with residuum, slopewash, and/or eolian deposits (a, acr, arc, arse, raw)
- Alluvium mixed with terrace deposits with scattered eolian deposits (at, ate)

Alluvial Fan Deposits
- Alluvial fan deposits mixed with slopewash, residuum and/or eolian deposits (sfre, sft)
- Alluvial fan deposits grading into terrace deposits (fi)
- Alluvial fan deposits mixed with slopewash, residuum and/or eolian deposits (fbdr)
- Alluvial fan deposits grading into terrace deposits (ftdr)

Bench Deposits
- Bench deposits and bench deposits mixed with eolian deposits and/or residuum (b, bc, br, eb)
- Dissected bench deposits and dissected bench deposits mixed with slopewash, and/or eolian deposits (bd, bde, bdr, bds, ebd)

Bench Deposits or mesa caprock undifferentiated
- Bench deposits / mesa caprock and bench deposits/mesa caprock with a thin cover of residuum (b/m)
- Dissected bench deposits / mesa caprock (b/md)

Terrace Deposits
- Terrace deposits and terrace deposits mixed with alluvium, eolian deposits, residuum, and/or slopewash (t, ta, tar, te, ts)
- Dissected terrace deposits and dissected terrace deposits mixed with slopewash, eolian deposits, and/or residuum (etd, etdr, std, td, tde, tdr, tdre, tds)
- Shallow terrace deposits or shallow terrace deposits / structural terrace mixed with residuum, alluvium, and/or eolian deposits (ttr, tat, tr, tre)
- Dissected terrace deposits with residuum (ttd)

Eolian Deposits
- Eolian deposits and eolian deposits mixed with residuum and/or slopewash (e, er, era, ers, esr)
- Eolian deposits mixed with scattered bedrock outcrops residuum and/or slopewash (erR, ersR)

Landslide Deposits
- Landslide deposits (l)

Slopewash
- Slopewash and slopewash mixed with residuum, alluvium and/or eolian deposits (asr, esa, sar, scr, sr, sra, srae, sre)
- Slopewash mixed with scattered bedrock outcrops and residuum, alluvium, colluvium, and/or eolian deposits (saR, scR, sfRe, sfR, sraR, srcR, srR, srRa, srRe, srRf)

Colluvium
- Colluvium mixed with scattered bedrock outcrops, slopewash, and/or residuum (csR, csrR)

Residuum
- Residuum mixed with slopewash, alluvium, and/or eolian deposits (rae, ras, rasc, re, rs, rsa, rsac, rsc)
- Residuum mixed with scattered bedrock outcrops and slopewash, alluvium, colluvium and/or eolian deposits (rasR, reR, rRae, rRe, rRs, rRsa, rRsc, rRse, rsaR, rscR, rseR, rsfR, rsR, rsRa, rsRe)

Mesa
- Mesa caprock mixed with a thin cover of residuum and/or eolian deposits (rm, rme)

Bedrock
- Bedrock mixed with colluvium, slopewash, residuum and/or clinker (Rcs, Rcsr, Rrs, Rrsa, Rs, Rsc, Rse)

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. Geological Survey, various years

UTM GRID
DECLINATION AT CENTER OF SHEET
DIAGRAM IS APPROXIMATE

SCALE 1:100 000

KILOMETERS 1 0 1 2 3 4 5 6 7 8 9 10

MILES 1 0 1 2 3 4 5

FEET 5000 0 5000 10000 15000 20000 25000

WYOMING

QUADRANGLE LOCATION

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 99HQAG0164

PRELIMINARY DIGITAL SURFICIAL GEOLOGIC MAP OF THE LUSK 30' x 60' QUADRANGLE, CONVERSE AND NIOBRARA COUNTIES, WYOMING AND NORTHWESTERN NEBRASKA

mapped and compiled by
Laura L. Hallberg and James C. Case, 1999
digital cartography by
Abby L. Kirkaldie, 2001