



- CLASSIFICATION OF MAP UNITS**
- Alluvial deposits**
    - Alluvium
      - Alluvium and alluvium with scattered collan deposits, residuum, slopewash, and/or bedrock outcrops (101) (a, ac, af, ar, asr, ars, ca, car)
      - Alluvium mixed with terrace deposits, with collan deposits or residuum (102) (at, ar, ars, ra)
    - Alluvial Fan Deposits
      - Alluvial fan deposits and alluvial fan deposits mixed with slopewash, alluvium, residuum, and/or collan deposits (201) (af, f, fa, fr, fs, fsr, fsr, ft, ftr, ftr)
      - Alluvial fan deposits grading into bench or terrace deposits mixed with collan deposits (fb, fl, flc)
      - Dissected alluvial fan deposits that grade into bench deposits (203) (fdb)
      - Dissected alluvial fan deposits grading into terrace deposits, mixed with residuum and/or slopewash (204) (fd, fld, fldr, fldr)
    - Old Alluvial Plain Deposits
      - Old alluvial plain deposits with scattered collan deposits mixed with residuum and terrace deposits (301) (ca, car)
    - Bench Deposits
      - Bench deposits and bench deposits mixed with collan deposits and/or residuum (401) (b, be, br, brs, br)
      - Dissected bench deposits with scattered deposits of residuum (402) (bd, bdr)
    - Terrace Deposits
      - Terrace deposits and terrace deposits mixed with collan deposits, slopewash, or alluvium and residuum (601) (et, tr, l, te, ts)
      - Dissected terrace deposits and dissected terrace deposits mixed with scattered collan deposits or residuum (602) (td, tdr, tdr)
      - Dissected shallow terrace deposits covered with residuum and shallow terrace deposits mixed with residuum and/or collan deposits (603) (rt, tr, trc)
  - Eolian deposits**
    - Eolian deposits and eolian deposits mixed with residuum and/or slopewash and alluvium (701) (e, cr, era, ers, es)
  - Landslide deposits**
    - Landslide deposits, landslide deposits mixed with slopewash, and Tertiary landslide deposits mixed with residuum or slopewash and residuum (801) (l, ls, rl, rsl)
  - Mesa**
    - Mesa capped covered by residuum (901) (m)
  - Playa lake deposits**
    - Playa lake deposits and playa lake deposits mixed with alluvial and eolian deposits (1001) (acp, cap, p, pc)
  - Slopewash**
    - Slopewash and slopewash mixed with alluvium, residuum, or colluvium and/or collan deposits (1101) (ss, shs, ssa, ssr, ssc, ssc, ssr, sc, scf, sr, sra, sra, ssa, ssa)
    - Slopewash mixed with scattered bedrock outcrops and residuum, alluvium, colluvium, eolian deposits, alluvial fan deposits, and gneiss (1102) (sSr, ssRr, sarR, sCR, sCRr, sCR, sCRr, sCR, sCRr, sCR, sCRr, sCR, sCRr)
  - Residuum**
    - Residuum and residuum mixed with slopewash, alluvium, eolian deposits, and/or alluvial fan deposits (1401) (r, ra, ra, ra, rs, rsa, rsa, rsc, rsf)
    - Residuum mixed with scattered bedrock outcrops and alluvium, slopewash, and/or collan deposits (1402) (rR, rAr, rAr, rAr, rAr, rAr, rAr)
    - Gneiss mixed with bedrock outcrops and/or slopewash (1404) (uR, uRr)
  - Bedrock**
    - Bedrock mixed with slopewash, collan, gneiss, residuum, and/or collan deposits (1501) (Rr, Rr, Rr, Rr, Rr, Rr, Rr, Rr, Rr, Rr, Rr, Rr, Rr, Rr, Rr, Rr)
    - Bedrock with a thin mantle of collan deposits, residuum, and/or slopewash (1502) (rR, rRr, rR)
    - Truncated bedrock: Shallow bench deposits on truncated, upturned bedrock mixed with scattered collan deposits, collan deposits covering shallow terrace deposits and truncated, upturned bedrock, and residuum on truncated, upturned bedrock mixed with scattered collan deposits and/or shallow terrace deposits (1503) (btr, ctr, rnr, rnr)
  - Lake**
    - Water bodies (1601) (LAKE)
  - Mined areas**
    - Open pit mine/quarry (reclaimed) (1700) (M)

Yellowstone National Park	Carly	Power	Burgess	Sheldon	Parkland	Overhead
Yellowstone National Park S	Center Mountain	Barth	Wardell	Butcher	Sheldon	Sanders
Jackson Lake	The Ranchman	Thompson	Monterey	Clyde	Ross Junction	Newcastle
Jackson	Quartz Peak	Elmer	Meredith	Sage	Big	Lewis Creek
Alton	Pinnacle	Lander	Redoubt	Coyne	Douglas	Spring
Panorama	Forest	South Fork	Barnd	Shirley Basin	Lindsay Peak	Thompson
Kameteau	Rock Springs	Red Desert	Palmer	Medicine Bow	Rock River	Chapman
Exterior	Finch Canyon	Kinsky Run	Stopp	Sandridge	Lansing	Cheyenne

Base map from U.S. Geological Survey 1:100,000-scale metric topographic map of the Shirley Basin, Wyoming Quadrangle, 1981.  
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 zone.



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**PRELIMINARY SURFICIAL GEOLOGIC MAP OF THE SHIRLEY BASIN 30' x 60' QUADRANGLE, CARBON, NATRONA, ALBANY, AND CONVERSE COUNTIES, WYOMING**

by  
**Laura L. Hallberg and James C. Case**

2007

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