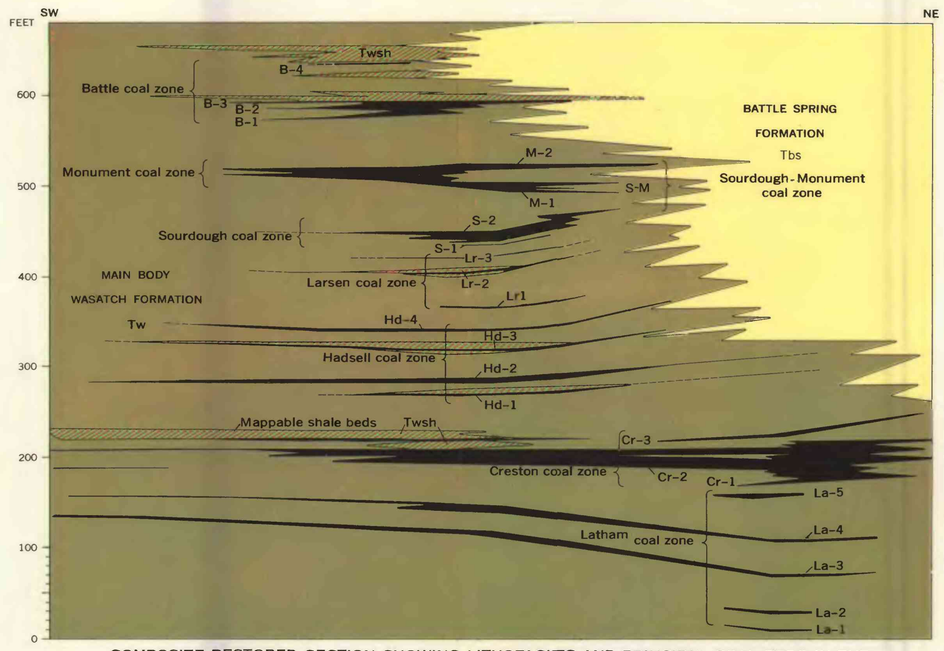
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BULLETIN 1099-B
PLATE 1



COMPOSITE RESTORED SECTION SHOWING LITHOFACIES AND PRINCIPAL COAL BEDS IN THE EASTERN RED DESERT AREA

EXPLANATION

Pleistocene and Recent — QUATERNARY

Qal — Alluvium and colluvium
Unconsolidated sand and silt along streams

Qst — Sand dunes
Discontinuous mantle of transverse dunes

Qdf — Delta and fan deposits
Unconsolidated sand and silt at stream mouths

Ql — Lacustrine deposits
Unconsolidated sand and silt covering lake flats

Miocene or Pleistocene

QTg — Gravel deposits
Surficial deposits on erosion surfaces

Eocene, Lower Eocene — TERTIARY

Tw, Tbs, Twsh — Wasatch and Battle Spring formations
Main body of Wasatch formation (Hiawatha member of Nightingale, 1930), Tw, gray to tan siltstone and arkosic sandstone, organic shale, carbonaceous shale, and coal. Shale units, Twsh, brown organic paper shale and fossiliferous arkosic sandstone and siltstone mapped separately. For details of stratigraphy and names of coal beds see composite restored section. Battle Spring formation, Tbs, gray to tan crossbedded arkosic sandstone and green sandy claystone, variegated in places, and carbonaceous shale

Contact
Dashed where approximately located; dotted where concealed

Fault
Dashed where approximately located; dotted where concealed; queried where doubtful. U, upthrown side; D, downthrown side

Syncline
Showing axis. Dashed where approximately located

Structure contour
Drawn on top of Sourdough 2 coal bed. Dashed where approximately located. Contour interval 50 feet; datum is mean sea level

Coal bed
Dashed where approximately located; dotted where concealed. See composite restored section for explanation of letter symbols

Clinker

Strike and dip of beds

Surface section of coal bed

Auger hole
Elevation of top in feet above sea level

Core hole
Elevation of top in feet above sea level

Spot elevation, in feet above sea level

State highway bench mark and elevation, in feet above sea level
Elevations 51 feet higher than true elevation

U. S. Geological Survey triangulation station

Recovered section corner

Water well

Prospect pit

Intermittent lake
Playa

Wire fence

APPROXIMATE MEAN DECLINATION, 1961

Base map compiled from aerial photographs on Bureau of Land Management land net

Geology mapped by H. D. Gower, Harold Masursky, G. W. Moore, J. R. Pierson, J. H. Sindelar, J. G. Stephens, and R. L. Sutton, 1951–53

GEOLOGIC MAP OF THE EASTERN RED DESERT AREA, GREAT DIVIDE BASIN, SWEETWATER COUNTY, WYOMING

SCALE 1:62500

1 ½ 0 1 2 3 MILES

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—10202