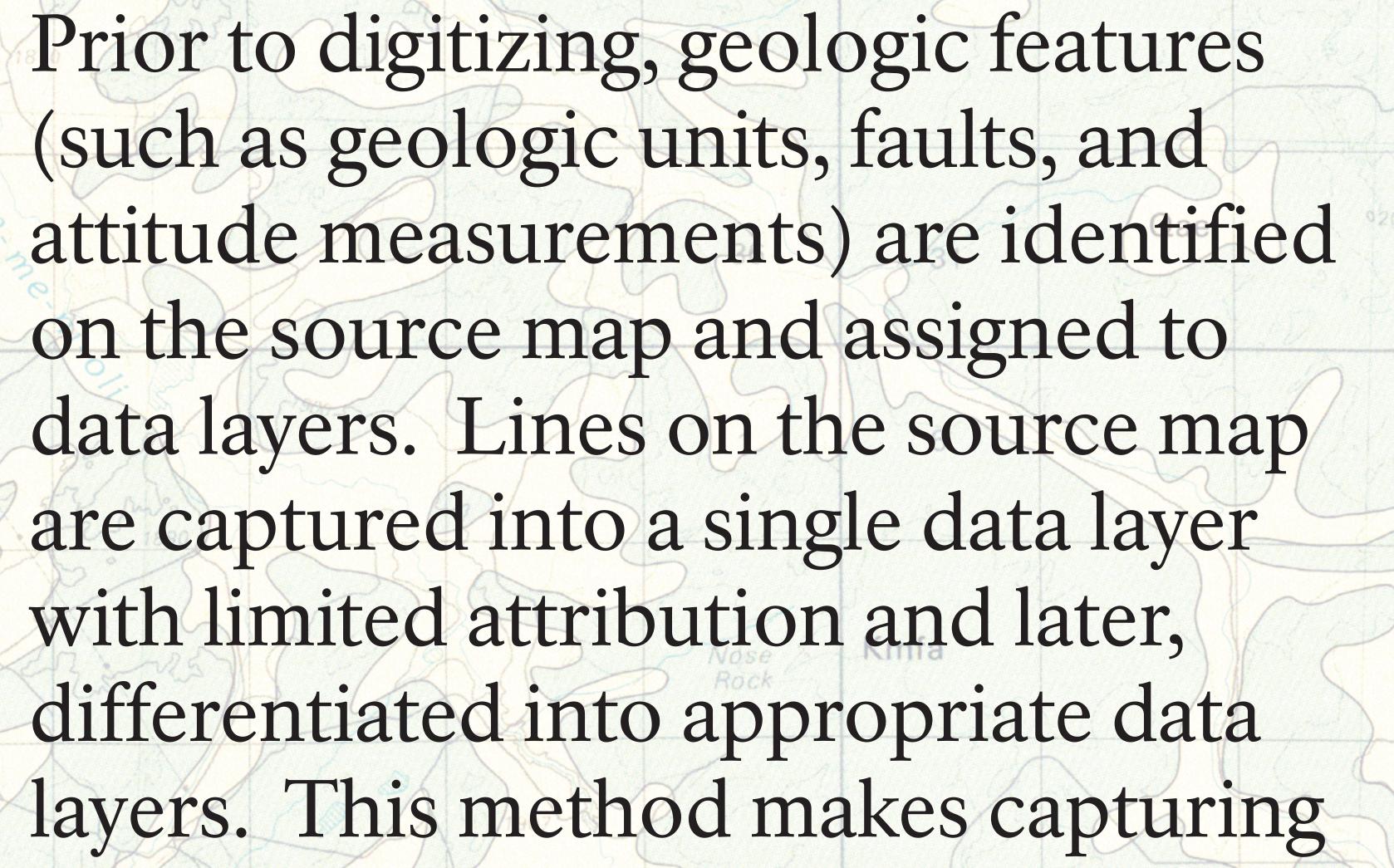
US Department of the Interior National Park Service Geologic Resources Division



Kmfa



known or cert — auadranale bour water or shoreling Geologic Unit Qfp - floodplain and channel depos Qdf - debris fan deposits Qd - dune sand)a - alluvium and slopewa) - pediment deposit Ot - Italus and alluvial fan depos Stump Formation, Redwater Memb Jca - Carmel Formation JTRg - Glen Canvon Sandstone TRc - Chinle Formation. Main Bod Ppu - Park City Formation, Upper Soft Mer PNmu - Morgan Formation, Upper Mem

Kmfa

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Qae

coincident features, such as faults and geologic contacts possible. Lines that comprise the boundaries of polygonal geologic features, like geologic units, are used to construct polygons.

ArcMap screen captures showing two stages of digitization. The top figure shows the process of capturing geologic line features and the lower figure shows the attributes associated with geologic polygon features.

u_geology.mxd - ArcMap - ArcInfo

JTRg

Geologic Units

Qae

roperty Value

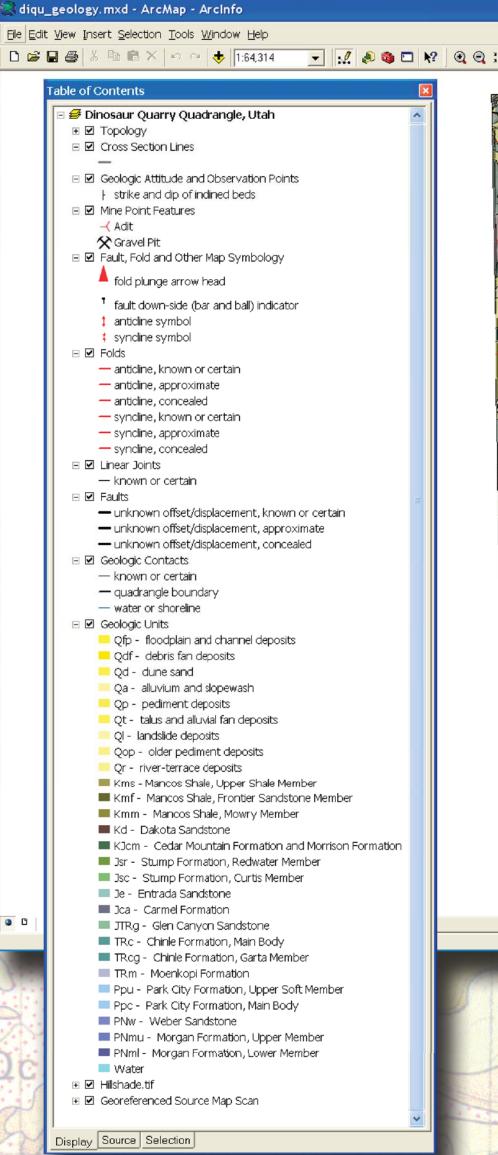
BJECTID

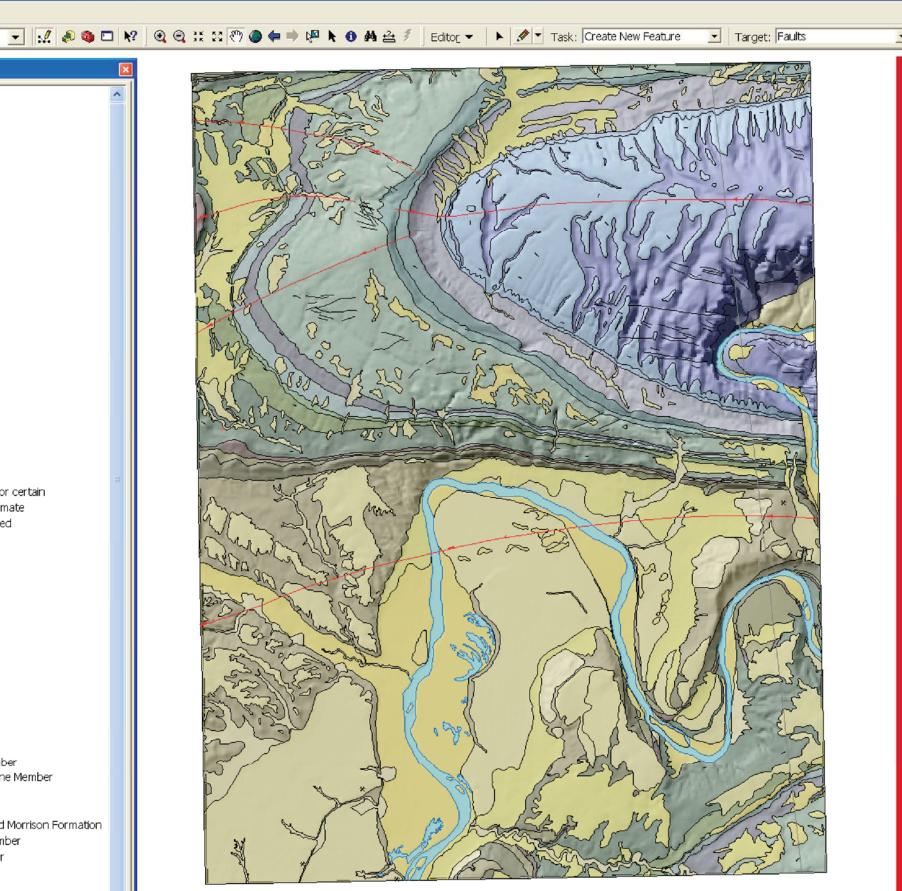
GRE team members parse components of the geologic data into assigned data layers and bring them together in a personal geodatabase. Point features are captured and attribution is completed for line and polygon features. All attribution follows the NPS GRE Geology-GIS Geodatabase Data Model's guidelines for capturing geologic data. The data model applies topology rules that ensure coincidence between geologic data layers and geometric properties within a single data layer. Relationships between tables and data layers are also established by the data model. Finally, each layer undergoes quality control.

Kmfc

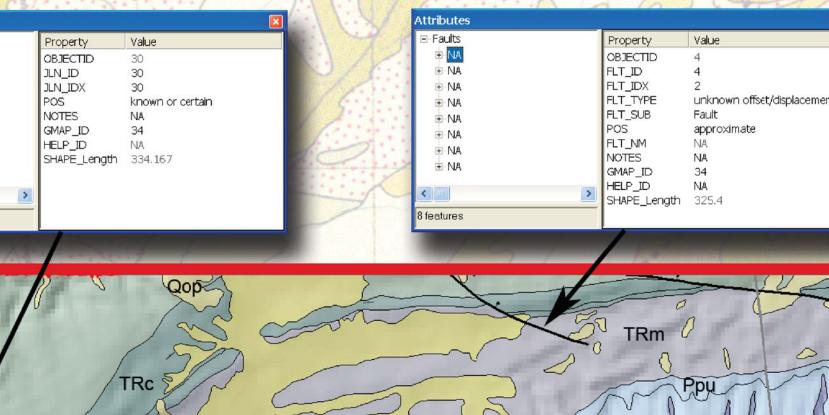
Qae

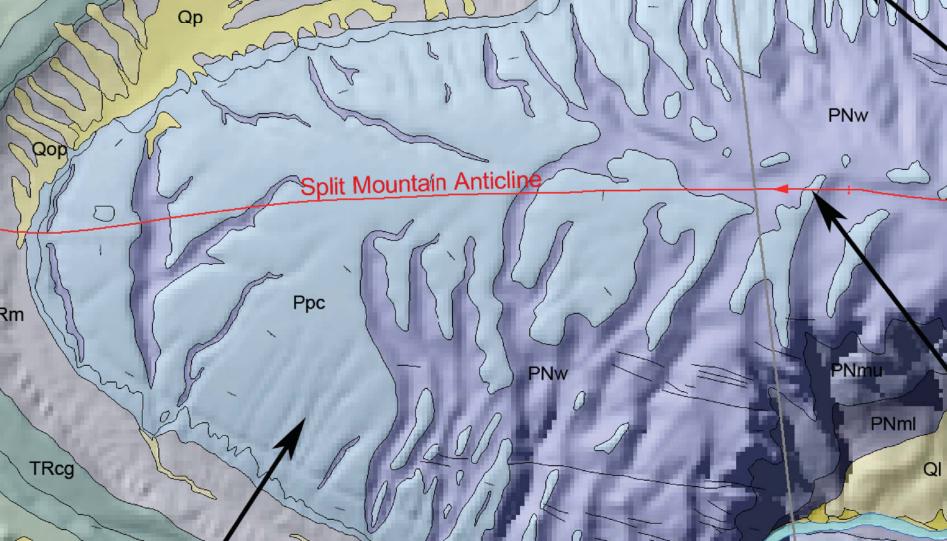
ArcMap screen capture of the final deliverable GIS data in geodatabase format for the Dinosaur Quarry Quadrangle located in Dinosaur National Monument, Colorado. The table of contents lists the geologic features present on the map.

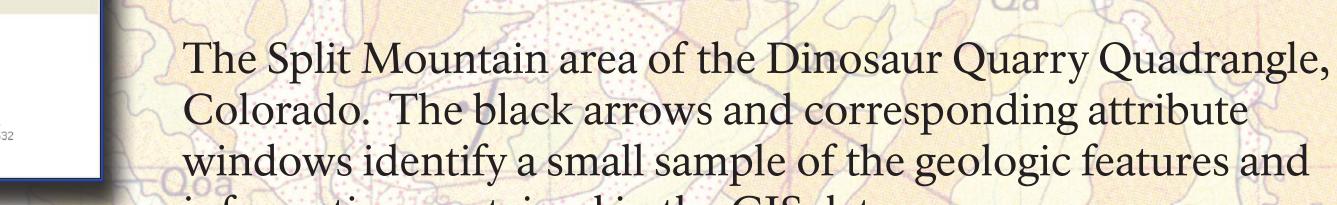




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Property

ATD TYPE

ATD_AM_ROT

HELP_ID

LD_IDX

FLD_TYPE

FLD PLN

GMAP ID

HELP ID

SHAPE_Length 6390.992

anticline

known or certain

SPLIT MOUNTAIN ANTICUME

Qoe

- SPLIT MOUNTAIN ANTICLIN

OBJECTID ATD_ID

strike and dip of inclined bed

Planar Measurement

known or certain

The GRE GIS team delivers products in personal geodatabase, shapefile, and coverage formats. In keeping with the goal of preserving the original source map information, all source map text and graphics are captured in a help file providing detailed feature descriptions and keyword searchability. FGDC compliant metadata completes the package by recording reference, processing, and geospatial information.