

EXPLANATION CONTINUED

- Coal beds
(Groups of coal beds in the Fort Union, Meeteetse, and Mesaverde formations; sc second group of coal beds in Mesaverde formation on which contours are based)
- Coal prospect
- Oil well
- Gas well
- Oil and gas well
- Show of oil and gas
- Dry hole

NOTE: Numbers at well symbols referred to in text

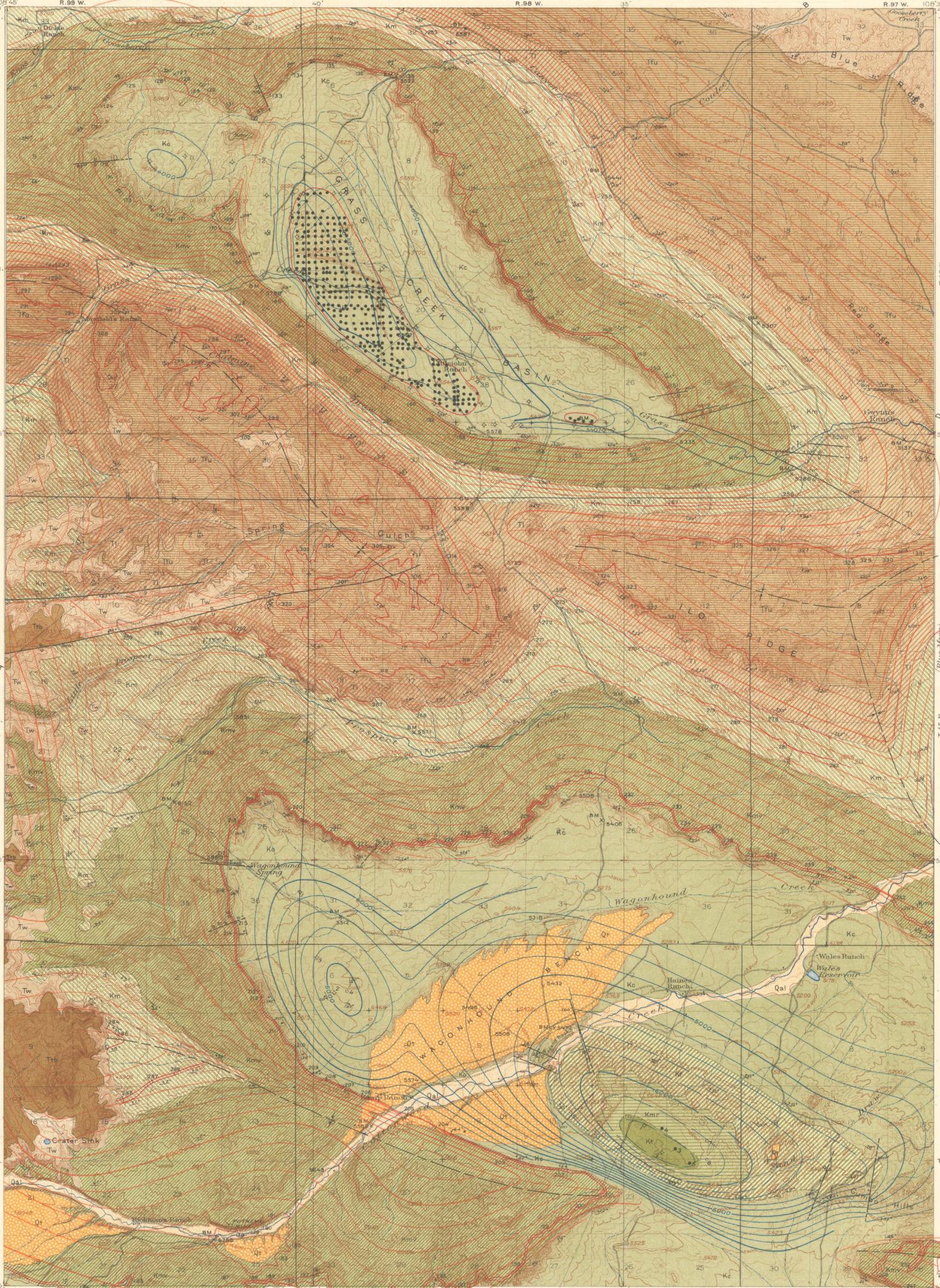
EXPLANATION

- Qal Alluvium
(Valley and flood-plain deposits along streams)
- Qt Terrace gravel
(Gravel and boulders washed from Absaroka Mountains)
- Ttb Volcanic tuff and breccia
- Tw Wasatch formation
(Vari-colored clay, sandstone, and conglomerate)
- UNCONFORMITY AND OVERLAP
- Tfu Fort Union formation
(Thin-bedded sandstone, shale, and thin beds of coal; several conglomeratic beds in basal part)
- ANGULAR UNCONFORMITY
- Tl Lance formation
(Chiefly thick-bedded, slightly consolidated buff sandstone with intercalated beds of clay and shale; several thin beds of coal in uppermost part; persistent bed of buff concretionary sandstone at base)
- Km Meeteetse formation
(Gray to white clayey sand and sandstone, locally concretionary; gray to pale olive sandy clay, brown shale, and bentonite; thin beds of coal in upper part)
- Kmv Mesaverde formation
(Massive sandstone of light-buff color, chiefly in lower part; thinly laminated sandstone and thin layers of light and dark gray shale; lower part coal bearing; a few thin coals in upper part; sc second coal group)
- Kc Cody shale
(Upper part chiefly alternating thin-bedded buff sandstone and buff sandy shale; lower part dark-gray to dark olive-gray thin-bedded shale)
- Kf Frontier formation
(Shale, sandy shale, sandstone, bentonite, and thin beds of coal)
- Kmr Mowry shale
(Gray shale containing fish scales; several beds of sandstone and bentonite)
- Kt Thermopolis shale
(Black or dark carbonaceous shale with one very persistent and several nonpersistent beds of sandstone; numerous beds of bentonite in upper part)

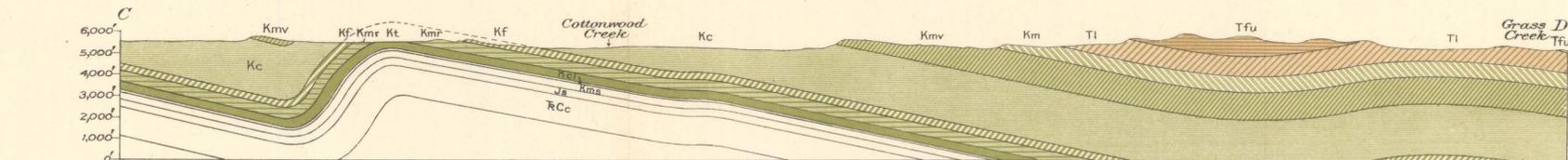
- FORMATIONS SHOWN IN SECTIONS NOT EXPOSED AT SURFACE
- Kcl Cloverly formation
 - Kms Morrison formation
 - Js Sundance formation
 - RcC Chugwater formation

- Faults
(Location at surface in black; location below surface shown in color of associated structure contours; U, upthrow; D, downthrow. Figure indicates displacement in feet)
- Syncline
(Surface position)
- Syncline
(Position on contoured coal bed)

- Strike and dip of strata
- Structure contours on top of Frontier formation. Contour interval 200 feet; datum sea level
- Structure contours on second group of coal beds (sc) in Mesaverde formation. Contour interval 200 feet; datum sea level



SECTION A-B



SECTION C-D

Topography by C. C. Gardner, R. R. Monbeck, and C. R. Fisher. Surveyed in 1912-13

GEOLOGIC MAP AND CROSS SECTIONS OF THE GRASS CREEK BASIN QUADRANGLE, WYOMING

Showing coal beds, oil and gas wells, and geologic structure

Scale 82500



Contour interval 25 feet. Datum is mean sea level.