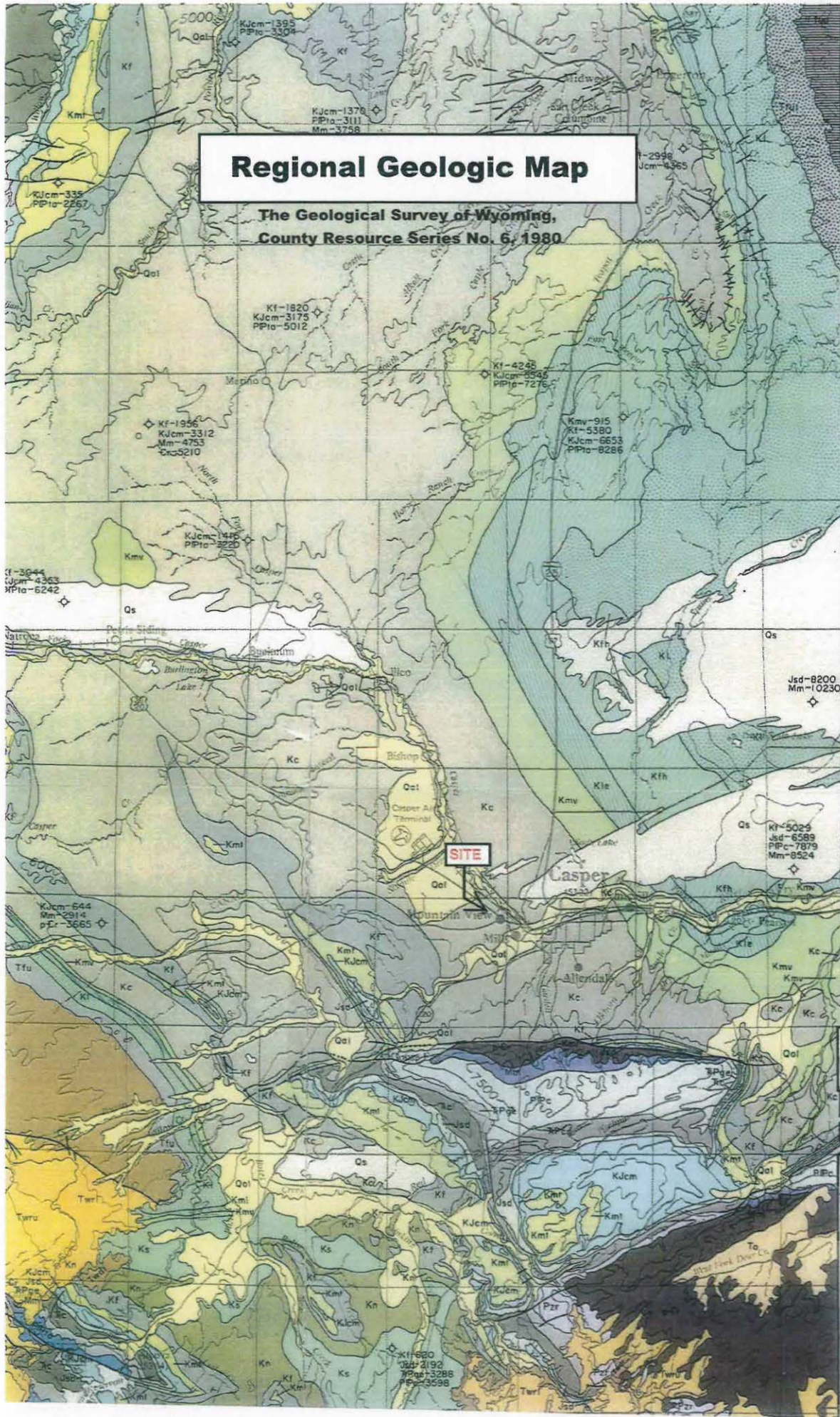


DEQ EXHIBIT 14



Regional Geologic Map

**The Geological Survey of Wyoming,
County Resource Series No. 6, 1980**

Scale and
Zone

20'

10'

43°00'

CONVERSE COUNTY

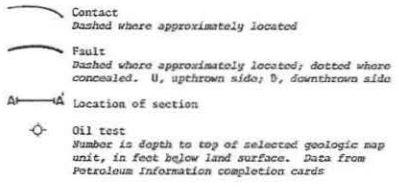
50'

40'

DEQ Exhibit 14
EQC No. 13-5802

EXPLANATION

- Qal** Alluvial deposits. Unconsolidated silt, sand, and gravel.
- Qs** Windblown deposits. Unconsolidated sand.
- To** Ogallala Formation. Heterogeneous deposits of silt, sand, and gravel, may be unconsolidated or well cemented. In some areas, may include thin deposits of sand and gravel of Pleistocene age, which on lithologic criteria cannot be separated from the Ogallala Formation.
- Ta** Aricares Formation. Light-gray sandstone, fine- to medium-grained; contains some thin beds of limestone, tuff, and conglomerate.
- Tw** White River Formation. Twru, upper member is predominantly sandstone and conglomerate. Twrl, lower member is pinkish-gray siltstone containing minor conglomerate lenses.
- Twb** Wagon Bed Formation. Bentonitic mudstone, sandstone, and conglomerate.
- Ti** Intrusive and extrusive rocks.
- Twr** Wind River Formation. Variegated claystone and shale, brown and gray sandstone, and lenticular conglomerate.
- Tfu** Fort Union Formation. Wind River Basin: Shotgun Member consists of very fine-grained sandstone and siltstone; Walsum Shale Member consists of silty and shaly claystone with a few thin beds of sandstone; unnamed lower member consists of fine- to coarse-grained sandstone, very fine-grained sandstone, and siltstone. Powder River Basin: Tfu, upper member consists of sandstone, siltstone, carbonaceous shale, and coal; Tful, lower member consists of claystone and siltstone interbedded with sandstone; carbonaceous material less abundant.
- Kl** Lance Formation. Brown and gray sandstone and shale; thin coal and carbonaceous shale beds.
- Kfn** Fox Hills Sandstone. Light-colored sandstone and gray sandy shale.
- Klm** Lance, Lewis, and Meeteetse Formations.
- Kle** Lewis Shale. Gray sandy shale and lenticular sandstone.
- Kls** Meeteetse Formation and Lewis Shale. Meeteetse Formation consists of gray carbonaceous shale interbedded with sandstone and thin coal beds.
- Ksv** Mesaverde Formation. Gray and brown massive to thin-bedded sandstone, and carbonaceous shale and coal beds; Teapot Sandstone Member at top; unnamed middle member; Parkman Sandstone Member at base.
- Ks** Steele Shale. Gray shale with numerous bentonite beds and thick lenticular sandstones.
- Kc** Cody Shale. Gray soft shale and lenticular sandstone beds; gray limy shale at base; Sussex Sandstone Member about 400 feet above Shannon Sandstone Member; Shannon Sandstone Member about 2,000 feet above base.
- Kf** Frontier Formation. Gray thick sandstone beds in upper part; lower part contains black shale and white bentonite interbedded with sandstone.
- Nat** Nowy and Thermopolis Shales. Nowy Shale is black and gray, weathers silvery gray, is hard, contains thin bentonite beds. Thermopolis shale is black and soft; Muddy Sandstone Member 150-250 feet above base.
- Kjen** Cloverly and Morrison Formations. Cloverly Formation is light-gray sandstone and lenticular conglomerate interbedded with variegated bentonitic claystone; Morrison Formation is variegated claystone and gray silty sandstone lenses.
- Jsd** Sundance Formation. Olive-gray shale and sandstone; persistent thin-bedded sandstone at base.
- Jrsp** Sundance Formation and Bell Springs Member of Nugget Sandstone. Triassic(?) Bell Springs Member consists of very fine-grained sandstone and pale red siltstone beds.
- Tc** Clugwater Group. Includes: Jelm Formation at top is red sandstone and siltstone; Alcega Limestone in middle is gray laminated limestone; and Red Peak Formation at base is red shale and siltstone.
- Foge** Goose Egg Formation. Red shale, gray dolomite and limestone, and anhydrite and gypsum beds.
- Pfc** Casper Formation. Gray and tan thick-bedded sandstone underlain by interbedded sandstone, pink and gray limestone and dolomite, and red shale; red to gray sandstone at base may be the Upper Niagassipian Darwin Sandstone Member.
- Per** Paleozoic rocks. Casper, Tensleep, Madison, and Kodjon Formations, and Cambrian rocks, undivided.
- M** Madison Limestone. Gray massive cavernous cherty limestone and dolomite.
- C** Cambrian rocks. Thin glauconitic shale interbedded with limy shale in upper part; dull pink quartzite and sandstone in lower part.
- P** Precambrian igneous and metamorphic rocks.



GEOLOGY / CRS 6, Natrona County, Wyoming

Sheet compiled by D.R. Lagesson

