



- Permit Boundary
- Approximate formation contact.
- U
D Approximate fault contact, with relative displacement shown.
- Vertical/steeply dipping joint(s).
- 11/2 Bedding attitude.
- Spring.
- Bore hole. Suffix u indicates location in mine reef; d indicates approximately 90° below horiz.
- 1u, d
- Contour interval = 80 ft.

- Qal Alluvium - Limited deposits of silts and sand with cobbles and boulders of sandstone, confined to drainage basins, most extensive but of short lateral and vertical extent along Bear Creek drainage where narrow intermittent flood plain deposits are included. Includes adjoining talus/colluvial deposits.
- Tw North Horn Fm. - Predominantly shales with common irregular beds and lenses of sandstone of varying texture and occasional thin limestones, minor, erratic conglomerates. Contact with Price River Fm. generally poorly defined. Approximately 1,500 feet thick.
- Kp Price River Fm., Upper Member - Thick bedded to medium bedded friable medium-grained sandstone with common to occasional interbedded brown to carbon shale, weathers step like. Approximately 650 feet thick.
- Kc Price River Fm., Lower Member (Castlegate Ss.) - Massive cliff forming sandstone, medium to locally coarse grained with grit matrix, contains occasional gray shale layers. Approximately 175 feet thick.
- Kb Blackhawk Fm. - Thick to massive cliff forming sandstones, fine to medium grained, well cemented with slopes forming clay to carbon shales comprising 1/3 to 1/2 alternating of total thickness. Sandstones predominant in lower portion which also contains most coal beds. Approximately 725 feet thick.
- Ksp Star Point Ss (Starrs Member) - Thick, generally massive cliff forming sandstones, fine to medium grained, tan, with occasional separations by thin shale, siltstone layers. Approximately 120 feet thick.



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GEOLOGIC MAP

SCALE: 1"=500' DRWN BY: D.Z. DATE: 1/1/85

BEAR CANYON PLATE 3.4-1