

EXPLANATION

- Qa

ALLUVIUM (Recent) -- Unconsolidated boulders, cobbles, pebbles, sand, and clay of varied composition.
- Tsr

SEVIER RIVER FORMATION (Tertiary) -- Consolidated and semi-consolidated pebble and boulder conglomerate of varied composition; also some thin sandstones and siltstones; abundant volcanic clasts in the conglomerate.
- Tv

VOLCANIC ROCKS UNDIVIDED (Tertiary) -- Volcanic rocks of varied composition.
- TKnh

NORTH HORN FORMATION (Cretaceous - Tertiary) -- Conglomerate with Paleozoic and Mesozoic sedimentary cobbles and pebbles in a red to gray matrix; pink micritic dolomites and limestones at the top with interbedded fine-grained, pink sandstones and white bentonitic shales; no volcanic cobbles; 550± m thick.
- UNCONFORMITY
- Jn

NAVAJO SANDSTONE (Jurassic) -- Brick red to white, fine-grained, crossbedded, massive sandstone; 100% quartz, frosted grains; 345 m thick.
- UNCONFORMITY
- CHINLE FORMATION (Triassic)
- Rcu

UPPER MEMBER -- Maroon, red, purple, and green siltstones and shales; very thin bedded; abundant calcite nodules; forms soil and rubble-covered slope; 21 m thick.
- Rcs

SHINARUMP CONGLOMERATE MEMBER -- Light brown, fluvial sandstone, gritstone, and pebble conglomerate; grains and clasts of quartz, quartzite, and chert; forms rounded ledges and cliffs; petrified wood; 97.5 m thick.
- UNCONFORMITY
- Rm

MOENKOPI FORMATION (Triassic) -- Red and green, thin-bedded siltstones and shales; ripplemarks, crossbeds, and mudcracks; Base: fossiliferous, greenish gray limestone unit contains abundant Meekoceras ammonoids. Middle: fossiliferous, gray limestones contain Pentacrinus whitei; 646.5 m thick.
- UNCONFORMITY
- Pk

KAIBAB LIMESTONE (Permian) -- Base: medium to light gray, fine-grained, cherty dolomite; medium to thin bedded, few fossils. Middle: medium gray to brown, coarse-grained, cherty, fossiliferous limestone; brachiopods, sponges, bryozoans, and crinoids. Upper: medium gray to brown, sandy dolomites, dolomitic sandstones, and chert; no fossils; 353 m thick.
- UNCONFORMITY
- Pq

QUEANTOWEAP SANDSTONE (Permian) -- Varigated pink, purple, orange brown, brown, gray, and white, fine-grained sandstone; clean with well-rounded grains; forms blocky talus-covered slopes with few ledges; 249 m thick.
- UNCONFORMITY
- Pp

PAKOON DOLOMITE (Permian) -- Pinkish brown to medium grayish brown, fine-grained dolomite; some minor chert; clear calcite blebs and nodules; basal conglomerate with corals in chert cobbles; 135.5 m thick.
- UNCONFORMITY
- Ip

CALLVILLE LIMESTONE (Pennsylvanian) -- Medium to light gray, cherty, dolomitic limestones and dolomites; chert - white; medium to thick bedded; Fusulina; 164 m thick.
- UNCONFORMITY
- Mr

REDWALL LIMESTONE (Mississippian) --UNIT A: Pinkish gray, fine-grained, basal dolomite with interbedded limestones; abundant rugose corals and crinoids. UNIT B: Dark gray to light gray and brown, fine-grained, fossiliferous limestones; thin bedded, cherty, distinct hydrocarbon odor on fresh fracture, brachiopods, Fenestella bryozoans, and crinoids. UNIT C: Light to medium brown, fine-grained sandstone; crossbedded; interbedded limestones; Lithostrotrionella and Syringopora in limestone at top of formation; 471 m thick.
- UNCONFORMITY
- Dcf

COVE FORT QUARTZITE (Devonian) -- Light pink, pinkish gray, light brown, medium-grained quartzite; highly fractured and re-silicified; quartz grains can be seen on fresh and weathered surfaces; interbedded pinkish gray, fine-grained dolomite in middle of formation; 48.5 m thick.
- Dg

GUILMETTE FORMATION (Devonian) -- Medium to dark gray to medium brown, fine-grained, sandy dolomite; few interbedded quartzite layers; 'twiggy' bodies and Coenites; 174.5 m thick.
- Dsi

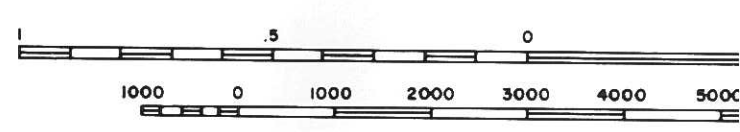
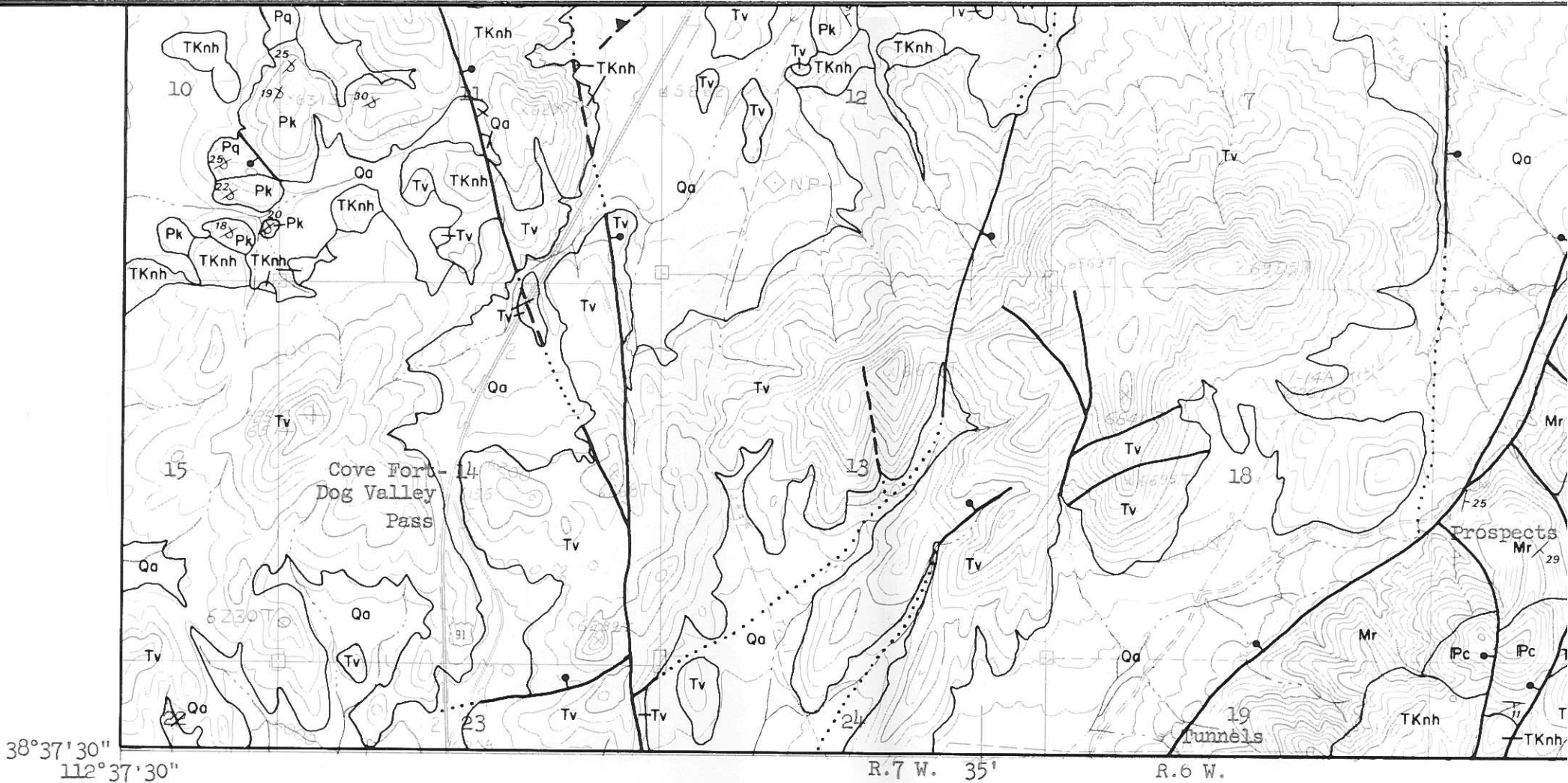
SIMONSON DOLOMITE (Devonian) -- Light gray to light brown, medium-to coarse-grained, 'sugary' dolomite; thinly laminated; thin bedded; 55.5 m thick.
- Ds

SEVY DOLOMITE (Devonian) -- Very light gray to white, dense, micritic dolomite; very fine grained sandstone at top; fossiliferous shaley section 30 m from base, contains Cephalaspis fish fragments; medium to thick bedded; 216.5 m thick.
- UNCONFORMITY
- Ob

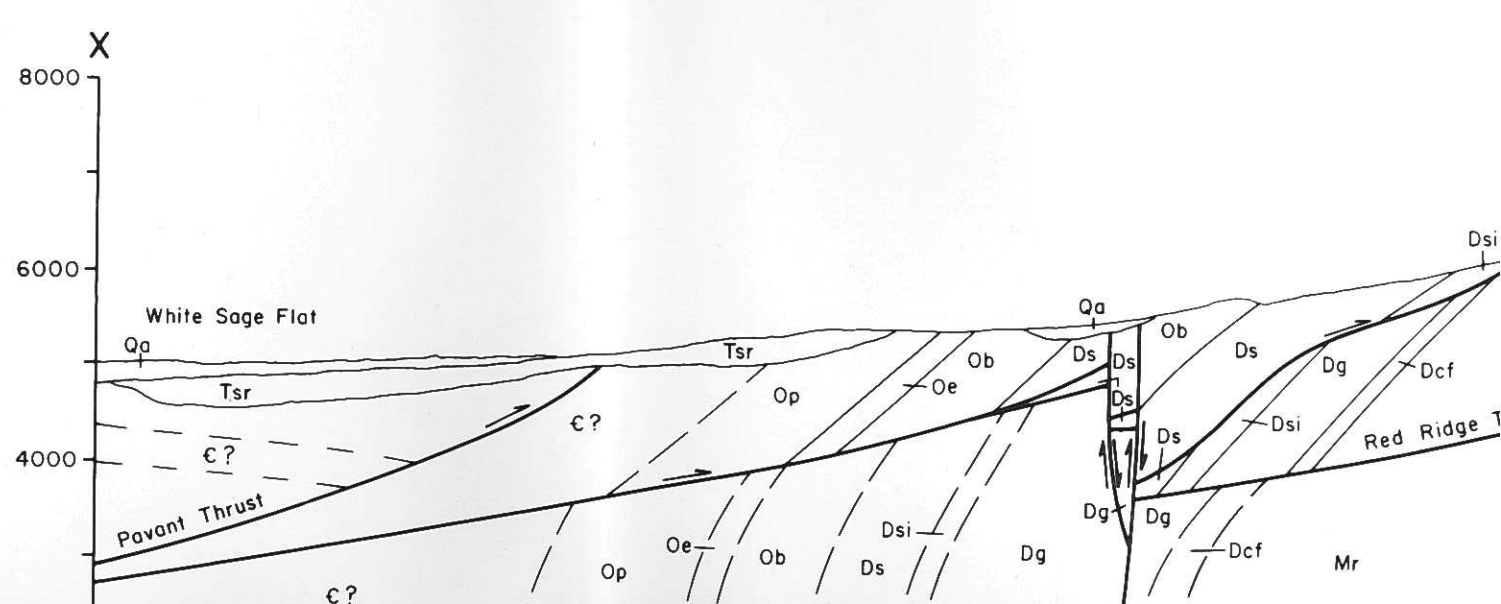
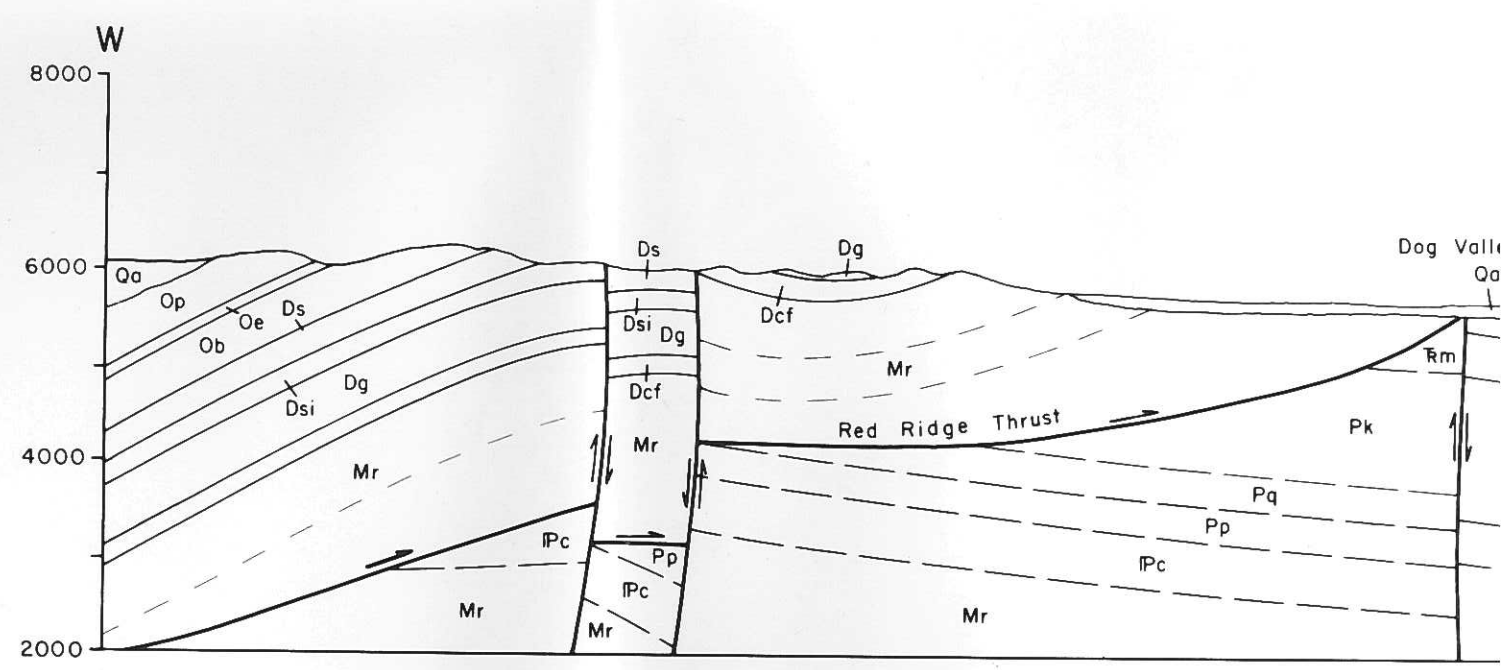
BLUEBELL DOLOMITE (Ordovician-Silurian) -- Dark gray, fine-grained, cherty dolomite; algal mat stromatolite structures in chert; few rugose corals; 172.5 m thick.
- UNCONFORMITY
- Oe

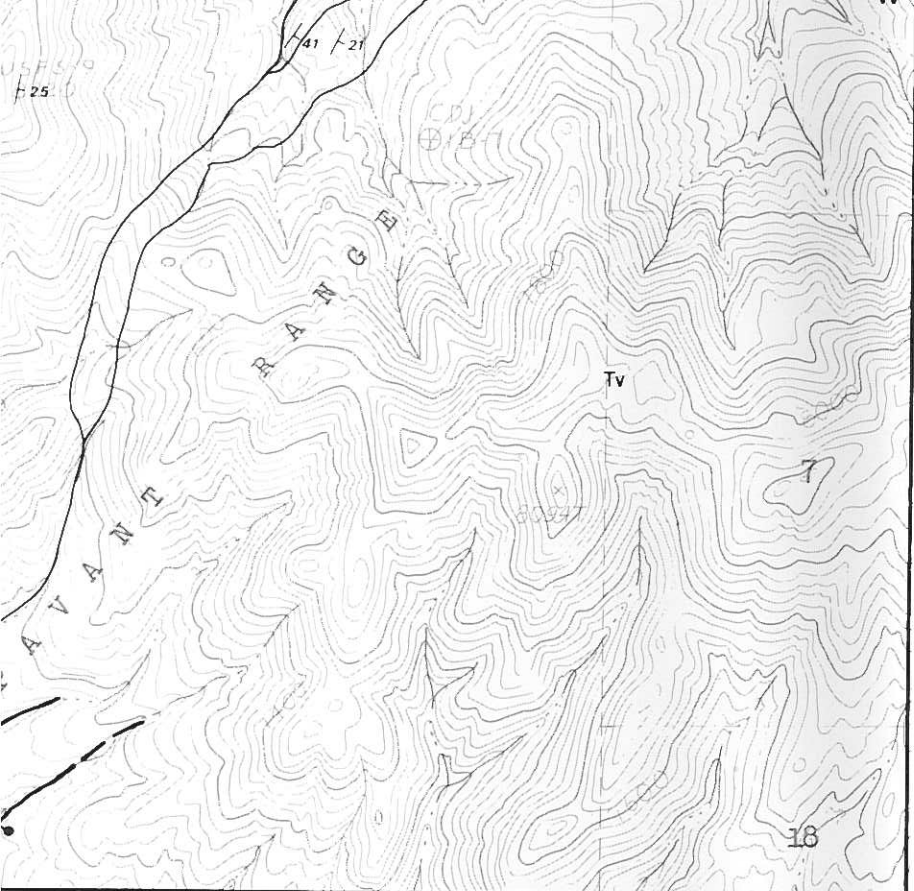
EUREKA QUARTZITE (Ordovician) -- White to light pink quartzite; highly fractured and re-silicified; forms resistant ledge or quartzite rubble covered slope; 45 m thick.
- Op

POGONIP GROUP (Ordovician) -- Medium gray, fine grained limestone and limestone intraformational conglomerate; occasional cherty and sandy layers; top of formation is orange to yellowish orange shales with thin interbedded purplish gray, fossiliferous limestones; Orthis brachiopods, trilobite fragments, gastropods, crinoids, and worm trails; 343 m thick.
- THRUST



Geology Southern Pavar





- Eu** CAMBRIAN ROCKS UNDIVIDED -- Medium gray limestones and dolomites; *Glossopleura* in thin limestone and shaley units at base; 125 m thick.
- Cp** PIOCHE FORMATION (Cambrian) -- LOWER MEMBER: Olive green to greenish gray phyllitic shale; thin interbedded quartzites and dolomites; *Skolithos* tubes and worm burrows; 59 m thick. TATOW MEMBER: Mottled, bluish gray limestone; *Chancelloria eros* sponge spicules and trilobite fragments; greenish gray thin-bedded, micaceous shale; ripplemarks and worm burrows; blue gray massive dolomite; weathers light brown; meringue weathering; 27.4 m thick.
- Et** TINTIC QUARTZITE (Cambrian) -- White, light pink, and purple indurated quartzite; crossbedded; few thin lenticular pebble conglomerate layers; glauconite near the top; highly fractured and re-silicified; 172 m thick.

SYMBOLS

- Strike and dip of beds 15°
- Strike and dip of overturned beds 15°
- Strike of vertical beds
- Strike of horizontal beds
- Depositional contact, dashed where approximately located
- Strike-slip fault, dashed where approximately located
- Thrust fault, dashed where approximately located, dotted where concealed, sawteeth on upper plate
- Normal fault, dashed where approximately located, dotted where concealed, ball on downthrown block

Valley Area, Millard County, Utah

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