

EXPLANATION

- QUATERNARY**
- Qrs **RECENT SAND DUNES**
 - Qco **COLLUVIUM**
Debris on hill slopes; includes talus and alluvial fans.
 - Qal **ALLUVIUM**
Valley fill and flood plain deposits.
 - Qpg **PEDIMENT GRAVELS**
- UNCONFORMITY**
- TERTIARY**
- Tf **FOWKES FORMATION**
Light green and gray, to white, to pinkish tuffaceous sandstone, siltstone and shale.
 - Tw **WASATCH FORMATION**
Light gray, red and brown algal limestone interbedded with pinkish shales and siltstones.
- CRETACEOUS**
- Kbr **BEAR RIVER FORMATION**
Gray, tan, red, and variegated sandstones, dark gray shale, coal and highly fossiliferous limestone.
- TRIASSIC**
- Rt **THAYNES LIMESTONE**
Gray sandy and silty fossiliferous limestone.
 - Tw **WOODSIDE SHALE**
Nonresistant red siltstone and shale.
 - Td **DINWOODY FORMATION**
Thin beds of tan to brownish gray sandstone, siltstone, and shale.
- UNCONFORMITY**
- PERMIAN**
- Pp **PHOSPHORIA FORMATION**
Resistant light to dark gray interbedded chert and sandy limestone in upper part; lower part is nonresistant gray dolomitic limestone, dolomite and phosphatic shale with thin discontinuous phosphate beds.
 - PPw **WELLS FORMATION**
Light gray to buff fine grained quartzite and sandstone with a few dolomite and limestone units.
- MISSISSIPPIAN**
- Mb **BRAZER DOLOMITE**
Medium to dark gray bedded dolomite; black chert stringers are common.
 - Ml **LODGEPOLE LIMESTONE**
Medium gray thin-bedded limestone; highly fossiliferous.
- DEVONIAN**
- Dt **THREE FORKS FORMATION**
Nonresistant red, pink, and yellow limestone, sandstone, and siltstone.
 - Dj **JEFFERSON FORMATION**
Dark gray to dark brown massive dolomite.
- UNCONFORMITY**
- ORDOVICIAN**
- Ofh **FISH HAVEN DOLOMITE**
Medium gray thick-bedded to massive dolomite.
- NOTE: K, J-R, Q, C? strata shown on cross-sections do not outcrop in study area, but are probably present in the subsurface.

SYMBOLS

CONTACT
Dashed where inferred or approximately located

NORMAL FAULT
Showing downthrown side, dotted where covered, dashed where inferred.

THRUST FAULT
Dotted where covered; teeth on upper plate.

STRIKE-SLIP FAULT
Dotted where covered, dashed where inferred.

Strike and dip of bedding.

Strike and dip of overturned beds.

Horizontal bedding.

ANTICLINE
Showing direction of plunge.

OVERTURNED ANTICLINE
Showing dip direction of limbs.

SYNCLINE
Showing direction of plunge.

MINOR ANTICLINE
Showing direction of plunge.

MINOR SYNCLINE
Showing direction of plunge.

K
KEY BED
Showing fault offset.

O
OIL WELL
Drilling.

N
NORTH

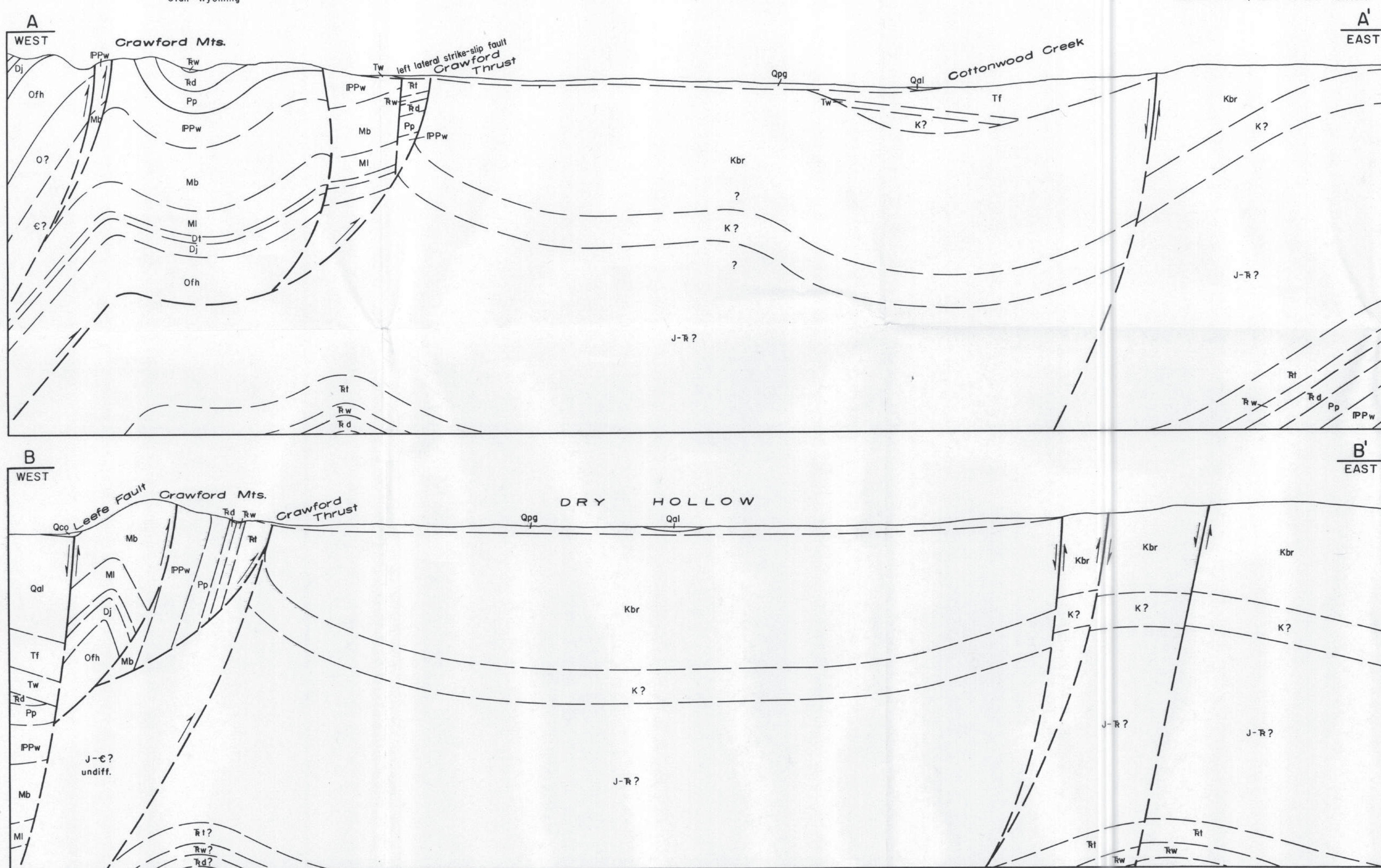
UTAH
QUADRANGLE LOCATION



Topographic base taken from U.S.G.S. Woodruff Narrows 7.5' Quadrangle
Utah-Wyoming

1 : 24,000

Contour interval 20 feet
Dotted lines represent 10-foot contours



Geologic Map
of the
WOODRUFF NARROWS QUADRANGLE, UTAH-WYOMING

VALEN D. OTT