GEOLOGIC MAP OF THE WEST FLANK OF THE ARMSTEAD ANTICLINE AREA, BEAVERHEAD COUNTY, MONTANA

(By C. W. Clark, Oregon State University)

LEGEND

CENOZOIC

QUATERNARY

- Qal — Quaternary Alluvium
- Qcl — Quaternary Colluvium

TERTIARY

- Tbd — Basalt Dike
- Tj — Jasperoid
- Ts — Unconsolidated Sediments (hills & ridges)

——— Unconformity ———

MESOZOIC

CRETACEOUS

- KTbh — Beaverhead Formation. Boulder to Pebble Conglomerate.

——— Unconformity ———

- Kk — Kootenai Formation. Sandstone, Pebble Conglomerate.

——— Unconformity ———

JURASSIC

- Jr — Rierdon Formation. Fossiliferous, Pellet Limestone.

——— Unconformity ———

TRIASSIC

- Trd — Dinwoody Formation. Fossiliferous Limestone, Silty Dolomite.

——— Unconformity ———

PALEOZOIC

PERMIAN

- Psh — Shedhorn Formation. Silty Chert.
- Pp — Phosphoria Formation. Sandy Chert, Cherty Sandstone, Sandstone, Phosphorite, Dolomite, Chert.
- Ppc — Park City Formation. Dolomite, Chert, Limestone.

PENNSYLVANIAN

- IPq — Quadrant Formation. Sandstone.

MISSISSIPPIAN

- Mcr — Conover Ranch Formation. Dolomite, Fossiliferous Limestone.
- Mlb — Lombard Formation. Limestone, Fossiliferous Limestone.

——— Unconformity ———

- Mmc — Misson Canyon Formation. Cherty Fossiliferous Limestone, Limestone, Dolomite, Solution Breccia.
- Mlp — Lodgepole Formation. Fossiliferous Limestone, Pellet Limestone, Oolite Limestone.

——— Unconformity ———

DEVONIAN

- Dtf — Three Forks Formation. Shale, Siltstone, Limestone. (lower plate only, not exposed in thesis area; see cross-section)
- Dj — Jefferson Formation. Dolomite, Limestone.

——— Unconformity ———

CAMBRIAN

- €p — Pilgrim Dolomite. Oolite Dolomite.

——— Unconformity ———

- €w — Wolsey Shale. Shale, Dolomite, Sandstone.
- €f — Flathead Sandstone. Sandstone.

——— Unconformity ———

PRECAMBRIAN

- p-€ms — Metasediments.

Formation contact: observed, inferred, covered.

Normal fault: observed, inferred, covered.

Strike-slip fault: observed, inferred, covered.

Oblique-slip fault: observed, inferred, covered.

Thrust fault: observed, inferred, covered. (teeth on upper plate)

Bedding: inclined, vertical, overturned.

Syncline, Anticline

Overturned Syncline, Overturned Anticline

A ——— A' Line of geologic cross-section.

TN GN MN 19° 1° 22' 338 mils 24 mils

UTM GRID AND 1952 MAGNETIC NORTH DECLINATION AT CENTER OF MAP

Base Maps: Eli Spring and Garfield Canyon Quadrangles; 7 1/2 minute maps, 1952, U. S. Geological Survey.

Scale 1:12,000

0 1/4 1/2 3/4 1mi.

0 1000 2000 3000 4000ft

Montana

Map location