GEOLOGIC MAP OF THE MOUNTAIN VIEW LAKE AREA, STILLWATER COUNTY, MONTANA

CONTOUR INTERVAL 20 FEET, DATUM MEAN SEA LEVEL
1950

100 m 0 500 1000 feet

EXPLANATION

Stillwater Complex — PRE-CAMBRIAN — ULTRAMAFIC ZONE — BASAL ZONE

- Lowermost boundary approximate
- Norite
- Mafic dikes and sills
- Granite
- Basic pegmatite
- Dunite
- Bronzitite; Coarse bronzitite, cbr; Olivine-rich bronzitite, obr; Feldspathic bronzitite, fbr
- Harzburgite; olivine-rich harzburgite, ohz; th s, tarbanitized
- granular harzburgite: olivine-rich, ogh; serpentinized, sgh
- Poikilitic harzburgite: olivine-rich, oph; serpentinized, sph
- Chromite layers; dashed where inferred, ---; dotted where discontinuous, ····; Chromite Creek tongue
- Norite
- Nickeliferous copper sulphide pods
- Basement complex; hornfels with quartzites

Geologic boundaries
- known definitely
- Approximately located
- Inferred
- concealed

Strike and dip symbols
- igneous layering, generalized trend
- chromite layers,
- sedimentary bedding
- joints
- vertical jointing
- vertical layers

Faults
- dashed where inferred; dotted where concealed
- low angle gravity faults, approximately located. Used also to delimit larger landslide areas. Marks approximate footwall of wide fault zone.
- Shear zones in the rocks exposed in the Mouat Nickel Mine area.
- Limit of outcrop
- Trench. Dug by U.S. Bureau of Mines
- Adit
- Underground workings, shaded where following chromite
- Triangulation Station
- Collar and horizontal projection of Diamond Drill Hole

Coordinate system based on SE corner of N.E. ¼ Section 27, T.3 S., R.15 E., as 50,000 N.-50,000 mW.E. (ICMG)

Mountains (South) Coordinate

505,000 N

Base from U.S.G.S. topographic map, 1950

Geology by J.W. Peoples, A.L. Hoyeland, W.R. Jones, and Delos Flint
Assisted by C.K. Brandel, Malcom Dennett, Mortimer Staats, and E. Gladstone, 1940-43
Compilation by A.C.M.Co., 1941-43

Mt. View Lake

AREA OF NO OUTCROPS

NO OUTCROPS

MOUAT NICKEL MINE AREA

CHROMITE MINE AREA

LAKE FAULT AND DIKES

TRUE NORTH

MAGNETIC NORTH

19°