DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY BULLETIN 894 PLATE 2 EXPLANATION BEDDED ROCKS Stream gravels, sand, and silt, glacial morainal deposits, and outwash gravels Older glacial deposits (Occurs only near the head of White River) Lava flows and associated rocks Sandstone, conglomerate, shale, and clay, with thin beds of coal Slate and graywacke (With quartz veins and numerous dikes of porphyritic granite and quartz diorite. Probably in part Upper Cretaceous. Includes the Valdez group and the Orca group and possibly some Paleozoic) Shale, sandstone, and conglomerate, cut by porphyritic intrusives (Includes Kennicott formation) Black shale of Naknek age
(Boundaries of the area not known;
occurs only along tributaries of Mc Carthy Creek) Sandstone, shale, conglomerate, and limestone
(In part Jurassic; includes some undifferentiated Jtc
Tuffaceous conglomerate Kotsina conglomerate (Occurs only at mouth of Chitina River) Shale, graywacke, and conglomerate
(In Chisana district) Tuffaceous shale of Tuxedni age (Oocurs only at mouth of Chitina River) UNCONFORMITY Shale or slate with thin-bedded calcareous argillite in the lower part; also occasional thin limestone beds
(Includes the McCarthy formation and upper
part of Kuskulana formation) Rnc Limestone (In lower part Chitistone limestone with inconspicuous shale partings; thick beds predominate. Upper part, Nizina limestone containing considerable interbedded thin shale; thin beds pre-Nikolai greenstone (Thick series of basaltic lava flows; Permian and Triassic(?)) subordinate shale (In White River and Chisana districts volcanic Glaciet UNCONFORMITY Rocks of Mississippian and Carbonifer-Limestone locally fossiliferous Granitic and light-colored porphyritic rocks A PPROXIMATE MAGNETIC DECLINATION
Mc CARTHY 1935 144° Compiled by Alaskan Branch. Topography by J. W. Bagley, C. F. Fuechsel, T. G. Gerdine, C. E. Griffin, and D. C. Witherspoon, Topographic Engineers. Areas adjacent to the International Boundary GEOLOGIC RECONNAISSANCE MAP OF THE CHITINA VALLEY AND ADJACENT AREAS, ALASKA

By Fred H. Moffit Geology from original surveys by the Alaskan Branch from 1900 to 1932, revised and coordinated through field studies by Fred H. Moffit at intervals from 1907 to from surveys by International Boundary Commission. Control by triangulation and traverse based on position of astronomic 1932, inclusive. Scale 250000 stations at Valdez and Copper Center, data by International Boundary Commission in the eastern portion, and surveys by the Copper River and Northwestern Railway. 5 0 5 10 15 20 Kilometers Surveyed in 1900, 1905, 1908, 1911, 1912, 1913, 1914, 1915, and Contour interval 200 feet. Datum is mean sea level Dotted lines represent probable topography unsurveyed

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