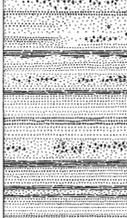
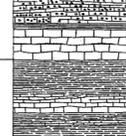
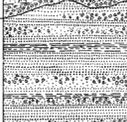
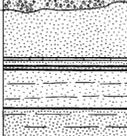
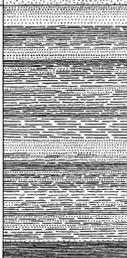
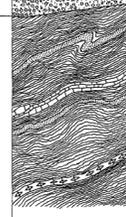
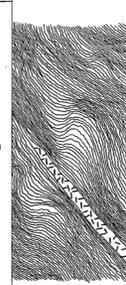


COLUMNAR SECTION

U. S. GEOLOGICAL SURVEY
CHARLES D. WALCOTT, DIRECTOR

MONTANA
THREE FORKS SHEET

GENERALIZED SECTION FOR THE THREE FORKS SHEET. SCALE: 1000 FEET = 1 INCH.												
PERIOD.	FORMATION NAME.	SYMBOL.	COLUMNAR SECTION.	THICKNESS IN FEET.	CHARACTER OF ROCKS.		PERIOD.	FORMATION NAME.	SYMBOL.	COLUMNAR SECTION.	THICKNESS IN FEET.	CHARACTER OF ROCKS.
PLEISTOCENE	Alluvium and drift.	Pal		50+	Sand, gravel, and clay.		DEVONIAN	Three Forks formation.	Dt		150-200	Orange shale and magnesian limestone.
	Glacial drift and moraines.	Fgd		100+	Sand, boulders, and unassorted material.			Jefferson limestone.	Dj		700-1000	Massive black limestone with bands of laminated magnesian limestone.
NEOCENE	Bozeman lake-beds.	Nb		1800-2500	Sand, conglomerate, limestone, clay, and volcanic dust.		CAMBRIAN	Gallatin formation.	€g		400-500	Pebbly limestone and shale. Mottled limestone.
						Flathead formation.		€f		800-1000	Greenish shale. Massive limestone. Shale, quartzite, and sandstone.	
EOCENE	Sphinx conglomerate.	Es		2000-3000	Conglomerate of limestone pebbles cemented by reddish sand.		ALGONKIAN ?	Belt formation.	bt		6000-10000	Argillite, arenaceous limestone, and micaceous sandstone. Conglomerate.
CRETACEOUS ?	Livingston formation.	lv		1000+	Conglomerate, sandstone, and andesitic tuff.							
	Laramie formation.	Kl		800-1000	Sandstone and clay, with coal beds.							
CRETACEOUS	Montana and Colorado formations.	Kmc		1800-2000	Sandstone and shale.							
	Dakota formation.	Kd		800-1000	Conglomerate, quartzite, sandstone, and shale.		ALGONKIAN	Cherry Creek formation.	Ac		7000 or more	Gneiss, mica-schist, crystalline limestone, and quartzite.
JURATRIAS	Ellis formation.	Je		300-500	Arenaceous and argillaceous limestones, and quartzite.		ARCHEAN		Agn			Gneiss and schist.
	Quadrant formation.	Cq		300-500	Cherty and red magnesian limestones.							
CARBONIFEROUS	Madison limestone.	Cm		1200-1500	Jaspersy limestone. Massive limestone. Laminated limestone.							

A. C. PEALE,
Geologist.