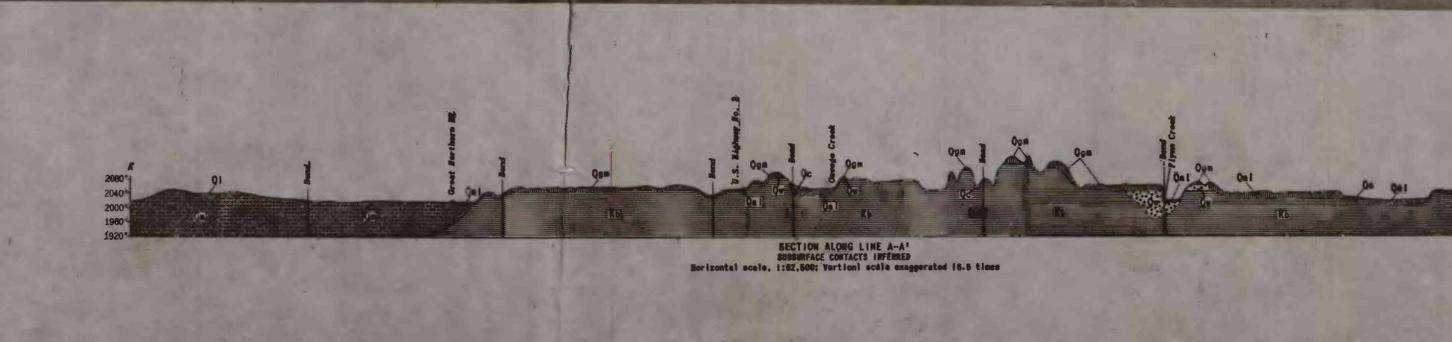


EXPLANATION

	Alluvium
Slopeside deposits derived from topographically higher deposits. That derived from Flaxville gravel is largely gravel, that from Bearpaw shale is almost entirely clay, that from the Bull Creek formation and the Fox Hills sandstone is chiefly silt and sand, and that from till is mainly to gravelly clay. Generally tan to dark brown color. Thickness of deposits highly variable, but maximum of 20 feet observed. Locally some deposits show rude prismatic cleavage.	
	Lake Clays
Dark gray clay and silty clay beds containing a few pebbles deposited in intermittent bodies of water by running water, wind, and slopeside. As much as 15 feet thick.	
	Older alluvium
Sand and gravel deposits similar to present day alluvium but at higher level, may be thicker locally than modern alluvium.	
	Outwash deposits
Sandy gravel and silt, as much as six feet thick, consist mainly of rounded brown quartzite pebbles derived from the Flaxville gravel. A small percentage of limestone, dolomite, and granitic pebbles present.	
	Kame deposits
Irregularly stratified ice-contact deposit of sand and gravel. Poorly sorted. Contains boulders as much as two feet in diameter and a very small percentage of fines. Maximum thickness of 25 feet.	
	Superficial fluvio-lacustrine silts
Buff to brown, medium- to fine-grained silt and sand; maximum thickness more than 24 feet.	
	Ice-marginal till ridges
Ridges of till as much as 30 feet high. Composition similar to ground moraine but more bouldery. Formed along front of retreating ice edge.	
	Ground moraine
Unstratified, compact, highly impervious, heterogeneous mixture of approximately 55 percent clay, 40 percent sand and gravel, and 5 percent boulders. Generally 10 to 50 feet thick. Boulders indicate long low ridges 10 to 15 feet high, 50 to 100 feet wide and up to ten miles long composed of ablation moraine which accumulated in crevasses in glacial ice. Mixture of ablation till between ridges 10 to 15 feet thick is more pebbly and less compact than underlying lodgement till.	
	Flaxville gravel
Consists of approximately 90 percent Flaxville type gravel and 10 percent glacially derived gravel. Five to 25 feet thick and generally overlain by till.	
	Bull Creek formation
Generally well-stratified sequence of shales, siltstones, sandstones, and carbonaceous shales about 200 feet thick. Overall appearance is one of rather greenish-gray color. Weathered surfaces of many beds have a gray, sandy texture. Lower 50 to 100 feet is predominantly sandstone and where cemented, sandstone. Contains vertebrate remains - usually carapaces. Infrequent quartzite pebbles found to basal 50 feet.	
	Fox Hill sandstone
Consists of upper sandstone unit 50 to 80 feet thick underlain by transitional siltstone unit 35 feet thick. Lower unit consists of thin-bedded well-laminated shale grading to silt toward top. Upper sandstone contains numerous concretions.	
	Bearpaw shale
Dark olive-gray much-jointed massive shale approximately 1,100 feet thick. Only upper 400 feet exposed. Contains abundant fossiliferous calcareous and liasitic concretions. Upper hundred feet contains a few brownish sandy clay-shale beds. This brownish zone is present and benthonic is disseminated through some shale zones.	
	Contact
	Scarp
	Gravel pit
	Irrigation or drainage ditch
	Paved road
	Contact, approximate or gradational
	Melting channel segments
	Driftless area
	Intermittent stream and small dam
	Trail or unimproved road
	Graded road
	Secondary road
	Contact inferred
	Trace of topographic break in slope on till surface inferred to reflect buried channel

Scale 67800
Contour interval 20 feet.
Datum is mean sea level.
GEOLOGIC MAP OF THE OSWEGO QUADRANGLE, MONTANA
OSWEGO MOUNT



U. S. Geological Survey
OPEN FILE REPORT
This map is preliminary and has not been edited or reviewed for conformity with Geological Survey standards or nomenclature.