

# Surficial Geology of the Upper South Fork Payette River Area, South Central Idaho

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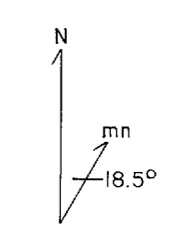
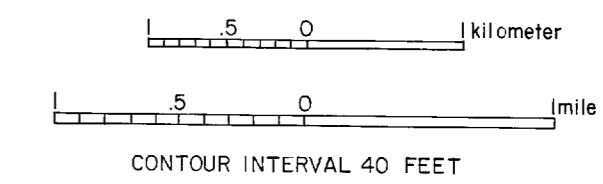
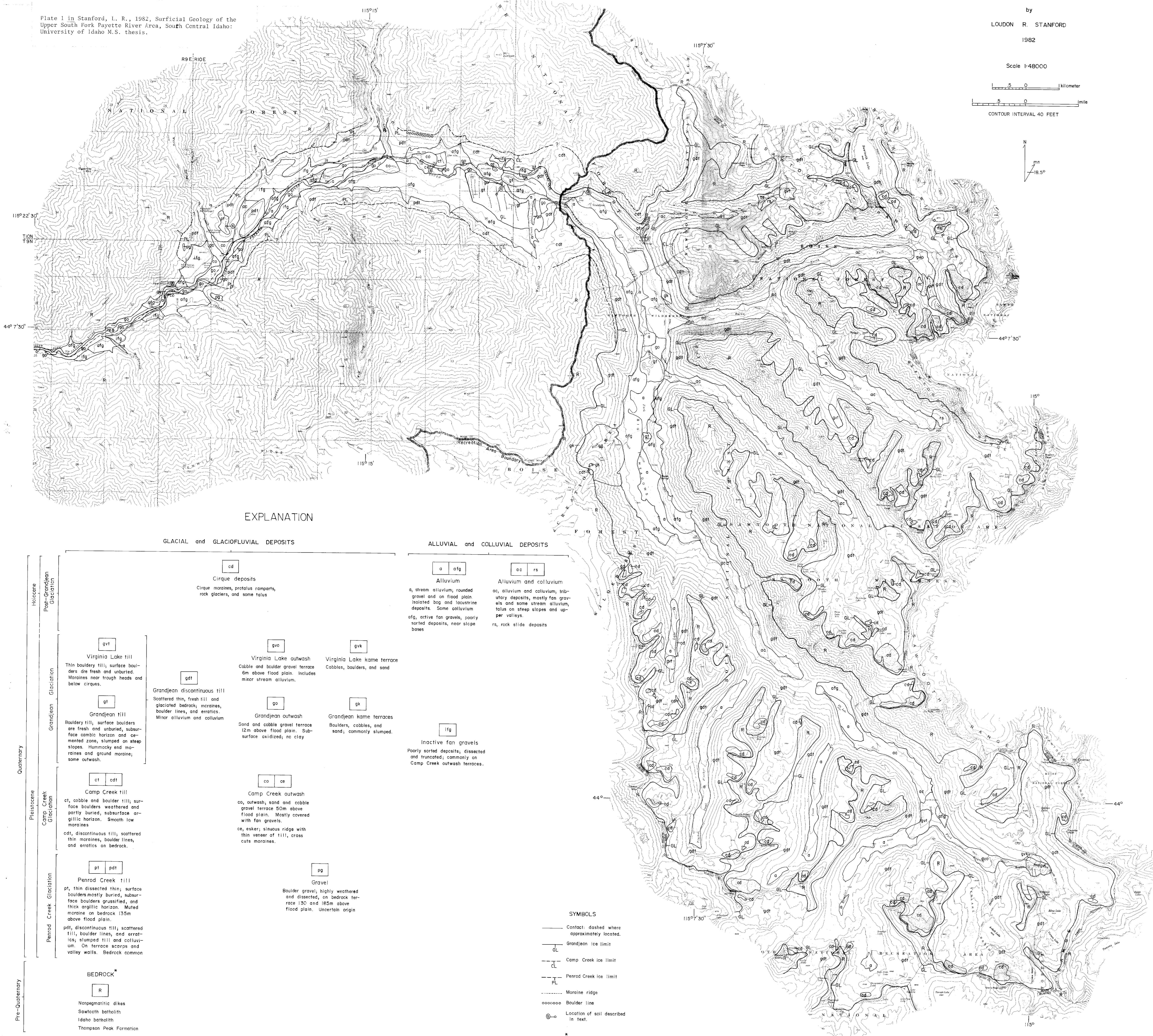


Plate 1 in Stanford, L. R., 1982, Surficial Geology of the  
Upper South Fork Payette River Area, South Central Idaho:  
University of Idaho M.S. thesis.



EXPLANATION

GLACIAL and GLACIOFLUVIAL DEPOSITS

ALLUVIAL and COLLUVIAL DEPOSITS

Quaternary	Holocene Post-Grandjean Glaciation	<b>cd</b> Cirque deposits Cirque moraines, proglacial ramparts, rock glaciers, and some talus	<b>a</b> <b>afg</b> Alluvium a, stream alluvium, rounded gravel and on flood plain isolated bog and lacustrine deposits. Some colluvium afg, active fan gravels, poorly sorted deposits, near slope bases	<b>ac</b> <b>rs</b> Alluvium and colluvium ac, alluvium and colluvium, tribu- tary deposits, mostly fan gra- vels and some stream alluvium, talus on steep slopes and up- per valleys rs, rock slide deposits
		<b>gvt</b> Virginia Lake till Thin bouldery till, surface bould- ers are fresh and unburied. Moraines near trough heads and below cirques.	<b>gvo</b> Virginia Lake outwash Cobble and boulder gravel terrace 6m above flood plain. Includes minor stream alluvium.	<b>gk</b> Virginia Lake kame terrace Cobbles, boulders, and sand
	Grandjean Glaciation	<b>gt</b> Grandjean till Bouldery till, surface boulders are fresh and unburied, subsur- face calcic horizon and ce- mented zone, slumped on steep slopes. Hummock and moraine and ground moraine; some outwash.	<b>gdt</b> Grandjean discontinuous till Scattered thin, fresh till and glaciated bedrock, moraines, boulder lines, and erratics. Minor alluvium and colluvium	<b>gk</b> Grandjean kame terraces Boulders, cobbles, and sand; commonly slumped.
		<b>co</b> <b>oe</b> Camp Creek outwash co, outwash, sand and cobble gravel terrace 50m above flood plain. Mostly covered with fan gravels. oe, esker; sinuous ridge with thin veneer of till, cross cuts moraines.	<b>ifg</b> Inactive fan gravels Poorly sorted deposits, dissected and truncated; commonly on Camp Creek outwash terraces.	
Pleistocene Camp Creek Glaciation	<b>ct</b> <b>cdt</b> Camp Creek till ct, cobble and boulder till, sur- face boulders weathered and partly buried, subsurface ar- gillitic horizon. Smooth low moraines cdt, discontinuous till, scattered thin moraines, boulder lines, and erratics on bedrock.			
	<b>pt</b> <b>pdt</b> Penrod Creek till pt, thin dissected thin, surface boulders mostly buried, subsur- face boulders gussified, and thick argillitic horizon. Muted moraine on bedrock 135m above flood plain. pdt, discontinuous till, scattered till, boulder lines, and erratics; slumped till and colluvium. On terrace scarp and valley walls. Bedrock common			
Pre-Quaternary	Pre-Quaternary Glaciation	<b>pg</b> Gravel Boulder gravel, highly weathered and dissected, on bedrock ter- race 130 and 185m above flood plain. Uncertain origin		
		<b>R</b> BEDROCK* Nonpegmatitic dikes Sawtooth batholith Idaho batholith Thompson Peak Formation		

- SYMBOLS**
- Contact: dashed where approximately located.
  - Grandjean ice limit
  - Camp Creek ice limit
  - Penrod Creek ice limit
  - Marine ridge
  - o o o o o Boulder line
  - ⊙ Location of soil described in text.
- \*References  
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