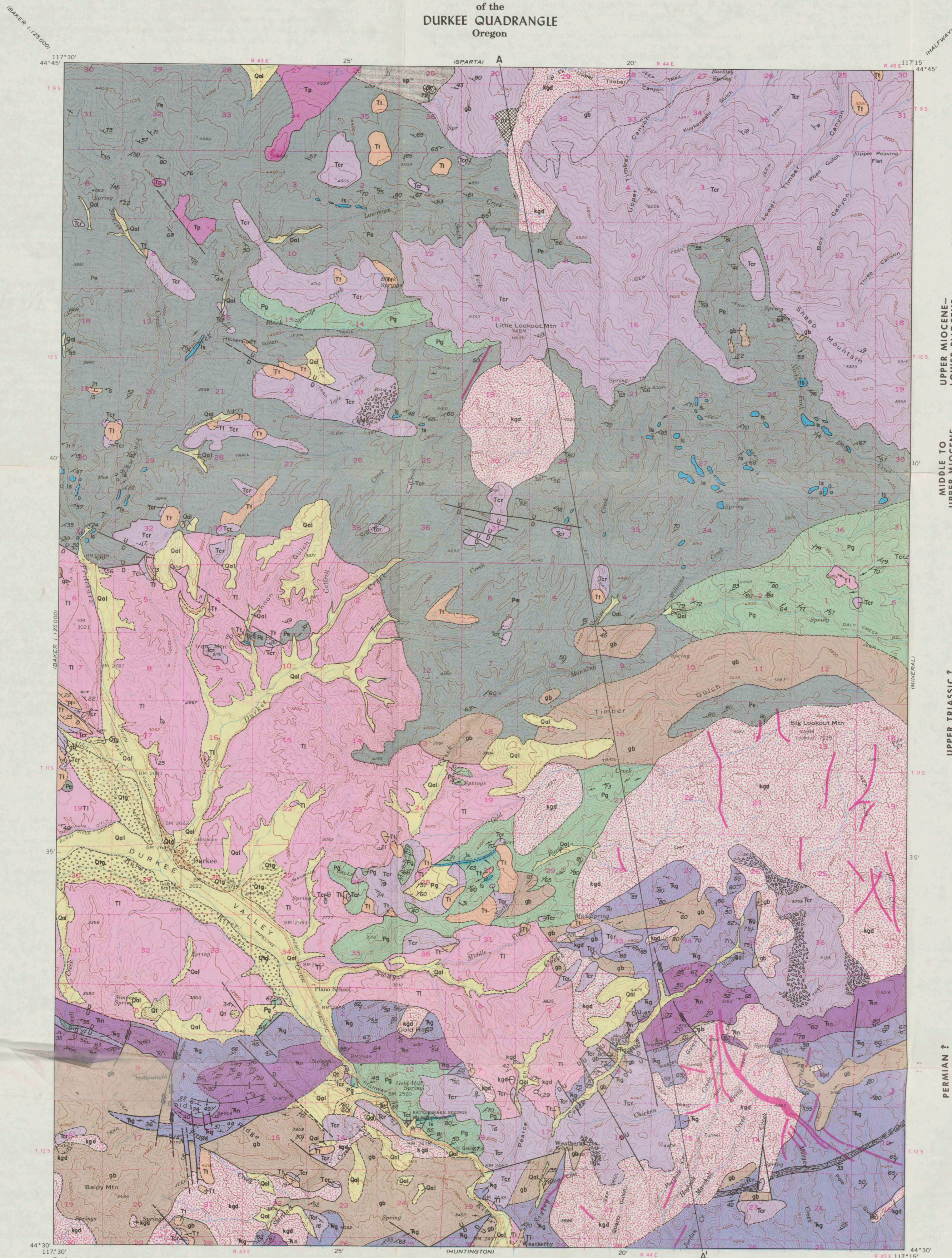


Geologic Map  
of the  
DURKEE QUADRANGLE  
Oregon

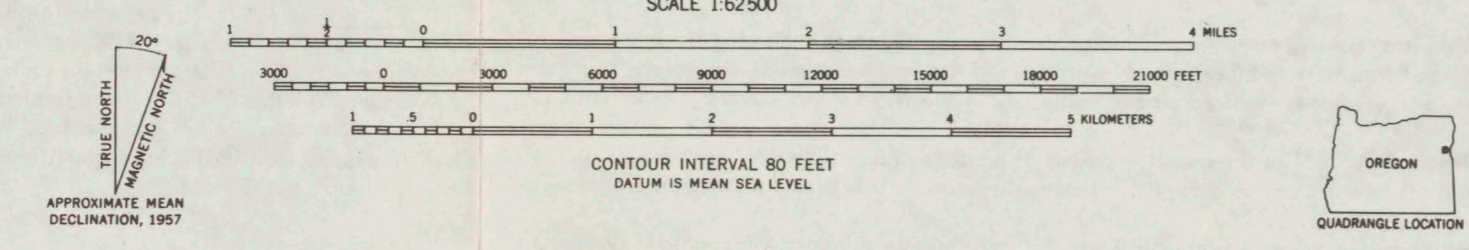
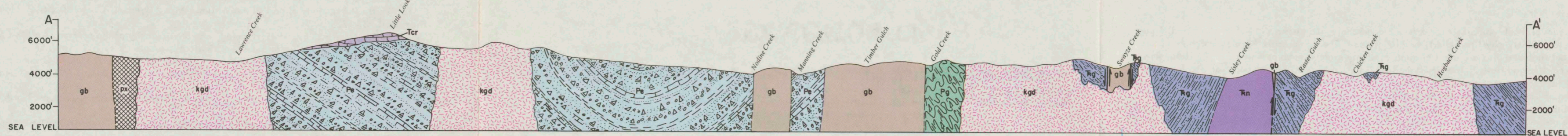


Geology by Harold J. Prostka

Based upon the Durkee Quadrangle  
topographic map issued by the  
U.S. Geologic Survey, 1957

	BEDDED ROCKS	INTRUSIVE ROCKS
PLEISTOCENE AND RECENT	<b>Qal</b> Alluvium and Colluvium <i>Includes alluvium in present valleys, colluvium, alluvial fan deposits, and older alluvium on former erosion surfaces.</i>	
	<b>Qfg</b> Terrace Deposits <i>Terraces of sand and gravel along the Burnt River.</i>	
	<b>Qtr</b> Travertine <i>Travertine interbedded with alluvium.</i>	
UNCONFORMITY		
UPPER MIOCENE - LOWER PLEIOCENE	<b>Tl</b> Lake and Stream Sediments <i>Light-colored, poorly consolidated sand and silt with minor conglomerate; contains variable amounts of rhyolitic ash, pumice, and diatomite.</i>	
	<b>Tt</b> Welded Tuff <i>A thin, resistant flow of welded tuff that underlies and is locally interbedded with lake and stream sediments.</i>	
MIDDLE TO UPPER MIOCENE	<b>Tp</b> Platy Basalt <i>Minor flows of platy-jointed olivine basalt erupted from central vents, and associated scoria and pumice.</i>	
	<b>Ter</b> Columbia River Basalt <i>Flows of olivine-basalt erupted from fissures, and basaltic agglomerate which locally underlies the basalt.</i>	
UNCONFORMITY		
UPPER JURASSIC - LOWER CRETACEOUS	<b>kgd</b> Quartz Diorite <i>Stocks of quartz diorite and minor granodiorite and trondhjemite; mostly coarse-grained but fine-grained near some margins. Locally there are abundant calcite dikes.</i>	
	<b>Ng</b> Gray Phyllite <i>Gray phyllite with lesser amounts of black slate (mapped separately), sandstone, and limestone.</i>	
UPPER TRIASSIC ?	<b>Nm</b> Nelson Marble <i>Massive and thin-bedded marble with interbedded calcareous phyllite.</i>	
	<b>sp</b> Serpentine <i>Bluish-black serpentine schist locally containing fresh peridotite.</i>	
LOWER TRIASSIC ?	<b>pd</b> Peridotite <i>Dark gray to greenish coarse-grained peridotite with minor dunite and pyroxene. Locally it is altered to talc-tremolite schist.</i>	
	<b>gb</b> Gabbro and Meta-gabbro <i>Dark coarse-grained noritic gabbro that is locally basified. In the northern part of the area much of it is silicified or partially recrystallized to chlorite schist. Near the late Mesozoic stocks it is baked to hornblende.</i>	
PERMIAN ?	<b>Pe ls</b> Limestone <i>Elkhorn Ridge Argillite Highly contorted chert, argillite, and tuff with minor conglomerate, and pod-like bodies of limestone which are mapped separately.</i>	
	<b>Pg ls</b> Limestone <i>"greenschist" Green and grayish green chlorite and talc schists with minor serpentine schist, phyllite, chert, and pod-like bodies of limestone (mapped separately).</i>	
Contact <i>Dashed where approximately located, dotted where concealed.</i>		Anticlinal axis <i>Showing trace of axial plane and heading and plunge of axis.</i>
Fault <i>Dashed where approximately located, U, upthrown side; D, downthrown side.</i>		Synclinal axis <i>Showing trace of axial plane and heading and plunge of axis.</i>
Bedding <i>Strike and dip of beds</i>		Lineation <i>Bearing and plunge of lineation.</i>
<i>Strike of vertical beds</i>		<i>Strike and dip of foliation</i>
<i>Strike and dip of foliation</i>		<i>Strike of vertical foliation</i>

Generalized Geologic Section



Issued by  
State of Oregon  
Department of Geology and Mineral Industries  
Portland, Oregon  
Hollis M. Dole, State Geologist