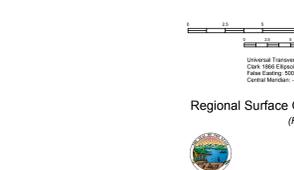


Map Unit Descriptions (From Wilson, et al. 1998)	
<b>GENERAL UNITS</b>	<b>PALEOZOIC AND PRECAMBRIAN</b>
bu Bedrock of unknown type or age	Sequences and Complexes
g Ice fields or glaciers	Ruby Metamorphic Complex
	PzZgr Pelitic and quartzitic schist
<b>QUATERNARY AND LATE TERTIARY</b>	<b>PRECAMBRIAN</b>
Qs Surficial deposits, undifferentiated	Metamorphic Rocks
	Xi Idoro metamorphic complex
<b>TERTIARY ROCKS</b>	
<b>Sedimentary Rocks</b>	
Tsu Sedimentary rocks, undivided	
Tcb Coal-bearing rocks	
<b>Igneous Rocks</b>	
Tb Volcanic and Hypabyssal Rocks	
Tb Basalt	
Thf Hypabyssal felsic and intermediate intrusive rocks	
Tm Miocene	
Tha Basaltic andesite	
<b>Eocene</b>	
Tegr Granite and granodiorite	
<b>Oligocene</b>	
Tgrd Granitic rocks	
Thgd Granodiorite and other intermediate plutonic rocks	
Tgl Gabbro	
<b>Intrusive Rocks</b>	
Tgdp Quartz Monzonite, Monzonite Breccia, and Quartz Porphyry	
<b>TERTIARY AND/OR CRETACEOUS</b>	
<b>Igneous Rocks</b>	
<b>Volcanic and Hypabyssal Rocks</b>	
TKv Flows, tuff, and breccia, undivided	
TKvi Younger Phase of Iditarod Volcanics	
TKd Dikes and subvolcanic rocks of intermediate composition	
TKgp Hypabyssal granite porphyry dikes and rhyolitic sills, and plugs	
TKvr Rhyolite and related rocks	
TKiv Mafic to intermediate volcano-plutonic complexes	
<b>Intrusive Rocks</b>	
TKi Intrusive rocks, undivided	
TKg Granitic rocks	
TKgd Granodiorite, tonalite, and monzonite dikes, and stocks	
<b>UNDIVIDED MESOZOIC ROCKS</b>	
<b>Sedimentary Rocks</b>	
KTrg Gemuk Group	
<b>CRETACEOUS ROCKS</b>	
<b>Sedimentary Rocks</b>	
Kk Kuskokwim Group, deep marine rocks	
Kkn Kuskokwim Group, non-marine and shallow-marine rocks	
<b>Igneous rocks</b>	
Kvi Volcanic and Hypabyssal Rocks	
Kvl Volcanic rocks	
<b>CRETACEOUS AND/OR JURASSIC</b>	
<b>Sedimentary Rocks</b>	
Kjf Kahlina fyisch sequence	
<b>TRIASSIC</b>	
<b>Sedimentary Rocks</b>	
Trca Calcareous sedimentary rocks	
Trog Conglomerate and volcanic sandstone	
<b>MESOZOIC AND PALEOZOIC</b>	
<b>Assemblages and Sequences</b>	
Jum Inoklo Assemblage	
TrMs Ultramafic and mafic rocks, undivided	
TrMca Sandstone, gnt, and argillite	
TrMca Chert, argillite, and volcanoclastic rocks	
<b>Stratigraphic Sequences</b>	
<b>Mystic Sequence</b>	
JDM Mystic stratigraphic sequence, undivided	
JTrv -- Tatina River Volcanics and equivalent units	
PMI -- Younger limestone	
PDsc -- Sheep Creek Formation and correlative siliciclastic units	
Dsc -- Shale and chert	
Dml -- Older limestone	
<b>Igneous Rocks</b>	
MzPz Intrusive and volcanic rocks, undivided	
<b>PALEOZOIC</b>	
<b>Dillinger and Nixon Fork Sequences</b>	
<b>Dillinger Sequence</b>	
DCd Dillinger sequence, undivided	
Dabr -- Barron Ridge Limestone and correlative units	
Stc -- Terra Cotta Mountains Sandstone and correlative units	
SCpj -- Post River Sandstone, Lyman Hills Formation, and correlative units	
<b>Nixon Fork Sequence</b>	
Dzn Shallow-marine carbonate units of Holitna basin area, undivided	
DSwc -- Whirlwind Creek Formation and unnamed correlative units	
Spf -- Paradise Fork Formation and unnamed correlative rocks	
Ont -- Noyl Mountain and Teletina Formations, and unnamed correlative rocks	
CZds -- Unnamed dolostone, sandstone, siltstone	

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**Regional Surface Geology of the Holitna Basin, Alaska**  
(From Wilson et al. 1998)  
Compiled by  
John F. Meyer Jr.  
2008

**Data Sources**  
Basemap data including hydrologic data, village and town locations, glacial, glaciofluvial, meads, and bountaries are from the State of Alaska, Core GIS database. The oil and gas basins are from the Alaska Division of Oil and Gas database, selected from the Alaska Oil and Gas Consortium Contributory database. This basin's geologic map units, faults and folds are from Wilson, F.H., et al., 1998, the indicators of petroleum from Miller, D.J., et al., 1959, and the placer deposits are from Nockberg, W.J., et al., 1967.

**References Cited**  
Kershner, C.E., 1988. Map showing sedimentary basins of onshore and continental shelf areas, Alaska. US Geological Survey, Miscellaneous Investigations Series 1-1873, scale 1:250,000.  
Miller, D.J., Payne, T.G., and Gyc, G., 1959. Geology of Prudhoe Petroleum Province in Alaska. U.S. Geological Survey Bulletin 1094, 131 p.  
Nockberg, W.J., Burdette, T.K., Berg, H.C., Brew, D.A., Gipeck, D., Robinson, M.S., Smith, J.E., and Yeard, W., 1967. Significant metalliferous lode deposits and placer districts of Alaska. U.S. Geological Survey Bulletin 1756, 104 p.  
Wilson, F.H., Dover, J.H., Bradley, D.C., Weber, F.R., Burdette, T.K., and Hessemer, P.J., 1998. Geology, Map of Central Interior Alaska. U.S. Geological Survey Open-File Report 98-133-A.