## Table 1: Table of Formations in the Fernie-Elk Valley Area Part A: Triassic to Quaternary

System/ Series		Formation and Thickness	Lithology
Quatern	ary		till, sand and gravel
		unconformity	
Miocene	St.	Eugene Formation (Rocky Mountain Trench only) 50 m exposed, total thickness unknown	colluvium, fanglomerate, sand, silt and gravel
Oligocene		Kishenehn Formation (Flathead Valley only) 0-5000m	varicoloured sandstone, mudstone, clay, oil shale, limestone, conglomerate and megabreccia
		unconformity	
Upper Cretaceous	Belly River Formation 1370m		continental sandstones, shales, and minor amounts of coal
	Alberta Group	Wapiabi Formation 600-700m	dark shale, siltstone, fine sandstone, calcareous shale and limestone
		Cardium Formation 100-150m	marine sandstone, siltstone and shale
		Blackstone Formation 30-250m	dark shale, fine sandstone, siltstone, limestone and calcareous shale
		unconformity	
Lower Cretaceous		Crowsnest Formation 0-400m	alkaline tuff, volcanic breccia, volcanic conglomerate, and trachyte
	Blairmore Group 635-2400m	Ma Butte Formation 120-1875m (latter is combined thickness with Beaver Mines Formation in the Fernie Basin)	quartz-chert sandstones, grey siltstones and red mudstones, igneous and quartzite-chert pebble conglomerate
		Beaver Mines Formation 450-1875m (latter is combined thickness with Ma Butte Formation in the Fernie Basin)	grey to green feldspathic sandstone and arkose, siltstone, and grey to maroon mudstone, igneous pebble conglomerate
		Gladstone Formation 80-450m	fine quartz-chert sandstone, siltstone,and green and red mudstone; limestone and calcareous mudstone in upper part
		Cadomin Formation 15-75m	chert pebble conglomerate and sandstone, grey, green, and red mudstone
		Pocaterra Creek Member 0-90 m	sandstone, siltstone, mudstone, minor chert pebble conglomerate
	unconformity		
	Kootenay Group	Elk Formation 0-475m	sandstone, conglomerate, siltstone, thin coal
Jurassic		Mist Mountain Formation 75-665m	siltstone, sandstone, mudstone, shale, coal
		Morrissey Formation 25-65 m	fine to medium sandstone with conglomeratic beds in the upper part, and rare mudstone, siltstone and coal.
		Fernie Formation 175-400m	dark shales, sandstone, siltstone, limestone, basal coquina and phosphate pebble conglomerate
		unconformity	
Triassic	Spray River Group	Whitehorse Formation 0-10 m	calcareous and dolomitic sandstone and siltstone, sandy dolomite and solution breccia
		Sulphur Mountain Formation 0-496 m	dark shale and siltstone, calcareous and dolomitic siltstone, dolomite and sandstone
		unconformity	