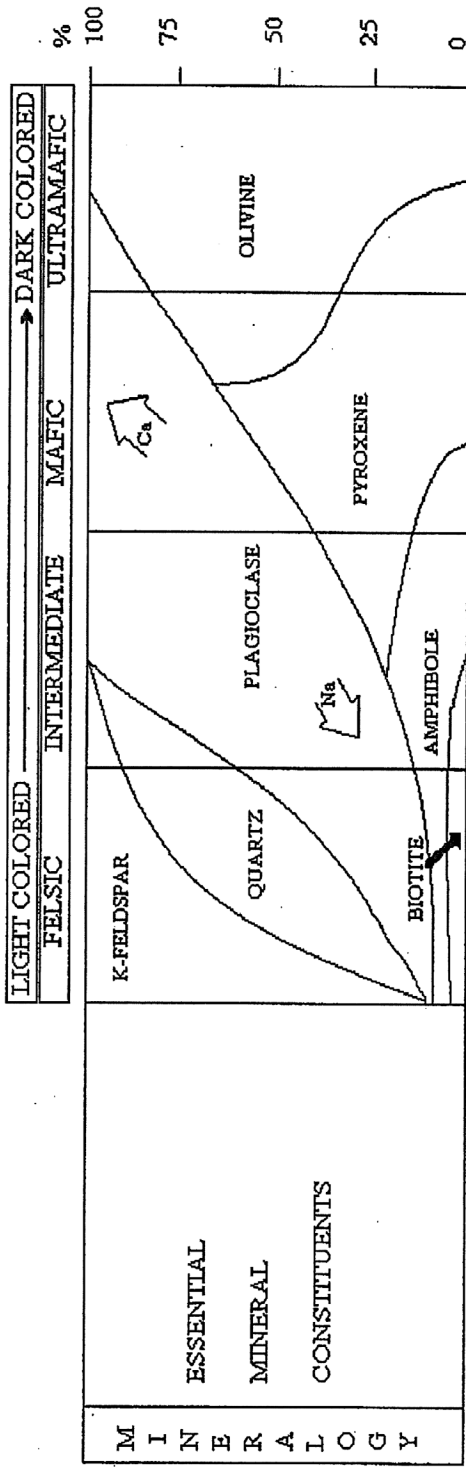


TABLE 1. CLASSIFICATION OF IGNEOUS ROCKS



		ROCK NAME					
TEXTURE		GRANITE	DIORITE	GABBRO	DUNITE PERIDOTITE PYROXENITE		
PHANERITIC (Coarse-grained)		GRANITE	DIORITE	GABBRO	Very Rare		
		GRANITE PORPHYRY	DIORITE PORPHYRY	GABBRO PORPHYRY			
APHANITIC (Fine-grained)		RHYOLITE	ANDESITE	BASALT	Very Rare		
		RHYOLITE PORPHYRY	ANDESITE PORPHYRY	BASALT PORPHYRY			
VESICULAR		PUMICE	SCORIA				
GLASSY		OBSIDIAN					
PYROCLASTIC		RHYOLITE TUFF, BASALT TUFF, VOLCANIC BRECCIA					
C L A S S I F I C A T I O N							

Table 1. CLASSIFICATION OF SEDIMENTARY ROCKS
A. Clastic Rocks

Texture		Composition		Name
Coarse Grained (over 2 mm)	GRAVEL	Rounded fragments of any rock type - quartz, quartzite, chert dominant		Conglomerate
		Angular fragments of any rock type - quartz, quartzite, chert dominant		Breccia
Medium Grained (1/16 mm to 2 mm)	SANDSTONE	Quartz with minor accessory minerals		Quartz Sandstone
		Quartz with at least 25% feldspar		Arkose
		Quartz, rock fragments and considerable clay		Graywacke
Fine Grained (1/256 - 1/16 mm)	Silt	Quartz and clay minerals		Shale
Very Fine Grained ($< 1/256$ mm)	Clay			

B. Chemical Precipitates / Nonclastic Rocks

Texture	Mineral Composition		Name
Medium to coarse grained	Calcite (CaCO ₃)	LIMESTONES	Crystalline Limestone
Microcrystalline, conchoidal fracture			Micrite
Aggregates of oolites			Oolitic Limestone
Shell fragments loosely cemented			Coquina
Abundant fossils in calcareous matrix			Fossiliferous Limestone
Shells of microscopic organisms, clay-soft			Chalk
Banded calcite			Travertine
Textures are similar to those in limestone			Dolomite (CaMg(CO ₃) ₂)
Microcrystalline, dense	Quartz (SiO ₂)	Chert	
Fine to coarse crystalline	Gypsum (CaSO ₄ ·2H ₂ O)	Gypsum	
Fine to coarse crystalline	Halite (NaCl)	Rock Salt	
Massive or laminated	Organic Matter (Carbonaceous)	Coal	

Table 1. Classification of Metamorphic Rocks

Texture		Composition					Name	
FOLiated	NONBanded	Very fine grained	M I C A	Q U A R T Z	F E L D S P A R	A M P H I B O L E	P Y R O X E N E	SLATE
		Fine grained						PHYLITE
	Banded	Medium to coarse grained	Medium to coarse grained	Plagioclase, quartz, and pyroxene	Quartz	Calcite or dolomite	HORNfels	SCHIST
		Medium to coarse grained						GNEISS
NONfoliated	Fine grained	Fine to coarse grained	Quartz	Calcite or dolomite	HORNfels	QUARTZITE		
	Fine to coarse grained					MARBLE		