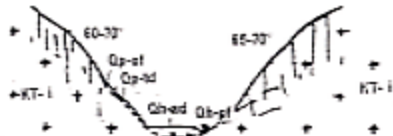



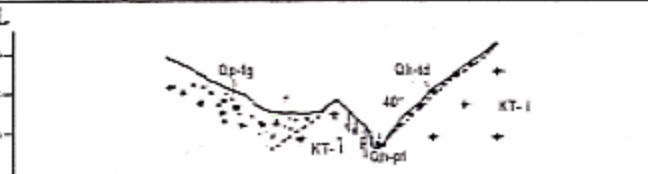
Table S.2.4.1.3 General Characteristics of Proposed Dam and Intake Site (10/18)


Site	Auco	Department : Lima	Province : Yauyos	District : Colonia	River : Cañete			
Topography	Riverbed width	Approximately 150 meters including alluvial plain.				Dam site	a. Granitic abutment shows appropriate characters in both abutments. b. Soft deposits on the slope will be removed due to the thin..	
	Characters	V-shaped valley between high granitic abutments 60-70° in angle. The valley is varied by fluvial and alluvial deposit.						
Schematic section	EL					Reservoir	a. The valley shows wide and gentle gradient of longitudinal riverbed. b. Unstable deposits are distributed in small portion.	
		Qh-pf: Present fluvial deposit Qh-ad: Alluvial deposit (cone) Qh-td: Talus deposit Qp-of: Old fluvial deposit KT-i: Andean Batholith						
Geology	Geology of Basement	Left bank		River bed		Right bank	Issues	From topographic point of view, this site is suitable for dam site. Some countermeasures against alluviums coming from the Pampa ravine should be required. Grasping of the thickness and mechanic characteristics of the fluvial, alluvial and fluvio-glacial deposit. Study on slope stability and sedimentation in the Pampa ravine.
		u. Cretaceous~l. Tertiary		u. Cretaceous~l. Tertiary		u. Cretaceous~l. Tertiary		
		Andean Batholith		Andean Batholith		Andean Batholith		
		Granodiorite, diorite		Granodiorite, diorite		Granodiorite, diorite		
	(hard, leucocratic and rock forming mineral in medium size)							
	Condition of Base-ment	Fault	No mayor fault is present.		No mayor fault is present.		No mayor fault is present.	
		Fracture	Semi-vertical joints sometimes open		No detected		Joints of different angle	
		Alteration	No present		No detected		No present	
		Weathering	Slight rusty-weathering along the fracture.		No present		Slight weathering	
	Overlying Sediment	Overlying bands composed of lod fluvial, talus and fluvio-glacial deposits on the slope.		Alluvial cone (alluvium) deposit		Small talus deposit in the concavity		
	Landslide and/or Failure	No present		No present		No present		
	Remarks	Alluviums have occurred through the Pampa ravine, which is located approximately 500 meters upstream from the proposed dam axis, on March 30 and April 2, 1972. This phenomenon caused many damages. The alluviums have been originated by slope failure of the Mt. Huamanripa.						
								

Negative No.17-34



Table S.2.4.1.3 General Characteristics of Proposed Dam and Intake Site (11/18)

Site	Churchura	Department : Lima	Province : Yauyos	District : Colonia	River : Cañete			
Topography	Riverbed width	Approximately 10 meters				Dam site	a. Many open parallel joints may cause a problem of permeability. b. Thick accumulation of talus deposit in the right slope.	
	Characters	Narrow V-shaped valley between rocky wall in the left abutment and steep slope in the right abutment.						
Schematic section						Reservoir	a. The valley shows wide and gentle slopes covered by little unstable deposits. b. Linear distribution of the fluvio-glacial deposit may be old river channel alignment.	
							Evaluation	From technical point of view, it's not feasible to construct a dam due to many open joints, wide distribution of unstable deposits and presence of alluvial cone.
Geology	Geology of Basement	Left bank	River bed	Right bank	Issues			
		u. Cretaceous~l. Tertiary	u. Cretaceous~l. Tertiary	u. Cretaceous~l. Tertiary				
		Andean Batholith Granodiorite, granite	Andean Batholith Granodiorite, granite	Andean Batholith Granodiorite, granite				
	Condition of Basement	Fault	No mayor fault is present.	No mayor fault is present.	Site photo			
		Fracture	Open parallel joints trend west-east and dips almost vertical.	No detected		Fractured		
		Alteration	No present	No present		No present		
		Weathering	Slight rusty-weathering along the fracture.	No present		No present		
	Overlying Sediment	Fluvio-glacial and/or glacial deposits overlay behind the granitic hill side.	Present fluvial deposit	Wide distribution of talus deposit of colluvial type				
	Landslide and/or Failure	No present	No present	Sliding of unstable talus deposit				
	Remarks	Exist many gully erosion in the fluvio-glacial deposit in the left slope. Alluvial cone is distributed in the rivermouth of a tributary located immediately upstream from the proposed dam in the left margin.						



Negative No.3-28