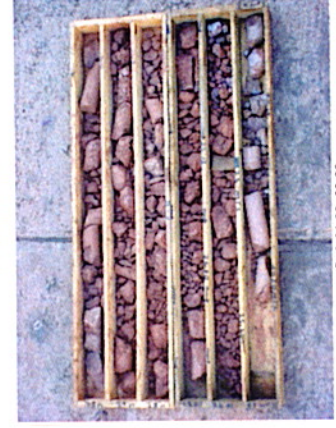
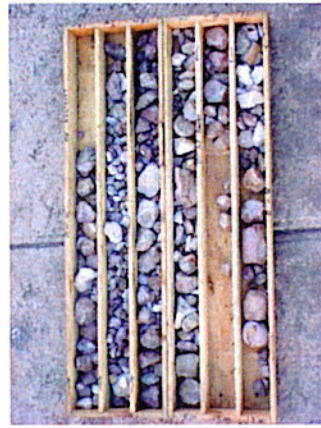


# GEOLOGICAL LOG OF CORE DRILL

**Project:** JICA Study Team: Landslide Protection    **Page:** 2 / 4  
**Core Drill #:** O-4    **Site Location:** Upper terrace near El Porvenir    **Ref. #:** B-2  
**Elevation:** 975.60    **Inclination (Angle with respect to Horizontal):** Vertical (90°)  
**Log Elaborated by:** Ing. Raul Flores Peñalba    **Date:** November 05, 2001



26.15 ~ m  
 F. Rio Chiquito  
 27.70 ~ 28.40m  
 shear zone

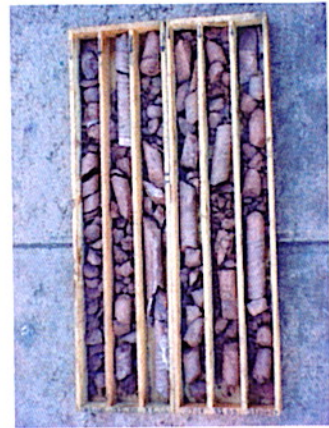
WATER CONTENT END OF DRILLING	ELEVATION (M)	DRILL DEPTH (M)	GRAPHIC LOG	CLASSIFICATION AND PHYSICAL CONDITION (COLOR)
NOV 8 16.20	960.60	15.00	[Graphic Log: Soil with small clasts]	Deiftus; area of rhyolite boulders with small lenses of clay
	944.60	16.00	[Graphic Log: Soil with small clasts]	
	943.60	17.00	[Graphic Log: Soil with small clasts]	
	942.60	18.00	[Graphic Log: Soil with small clasts]	
	941.60	19.00	[Graphic Log: Soil with small clasts]	
	940.60	20.00	[Graphic Log: Soil with small clasts]	
	939.60	21.00	[Graphic Log: Soil with small clasts]	
	938.60	22.00	[Graphic Log: Soil with small clasts]	
	937.60	23.00	[Graphic Log: Soil with small clasts]	
	936.60	24.00	[Graphic Log: Soil with small clasts]	
	935.60	25.00	[Graphic Log: Soil with small clasts]	
	934.60	26.00	[Graphic Log: Soil with small clasts]	
	933.60	27.00	[Graphic Log: Soil with small clasts]	
	932.60	28.00	[Graphic Log: Soil with small clasts]	
	931.60	29.00	[Graphic Log: Soil with small clasts]	
	930.60	30.00	[Graphic Log: Soil with small clasts]	Rock contact composed of lutite (shale) or sandstone due to small particles of quartz present on core, red color with white bands of gypsum

# GEOLOGICAL LOG OF CORE DRILL

**Project:** JICA Study Team: Landslide Protection **Page:** 3 / 4  
**Core Drill #:** O-4 **Site Location:** Upper Terrace near El Parvenir **Ref. #:** B-2  
**Elevation:** 975.60 **Inclination (Angle with respect to Horizontal):** Vertical (90°)  
**Log Elaborated by:** Ing. Raul Flores Peñalba **Date:** November 05, 2001

WATER CONTENT END OF DRILLING	ELEVATION (M)	DRILL DEPTH (M)	GRAPHIC LOG	CLASSIFICATION AND PHYSICAL CONDITION (COLOR)
	930.60	30.00		
	899.60	31.00		
	898.60	32.00		
	897.60	33.00		
	896.60	34.00		
	895.60	35.00		
	894.60	36.00		
	893.60	37.00		
	892.60	38.00		
	891.60	39.00		
	890.60	40.00		
	889.60	41.00		
	888.60	42.00		
	887.60	43.00		
	886.60	44.00		
	885.60	45.00		

Rock composed of lutite (shale) or sandstone due to small particles of quartz present on core, red color with white bands of gypsum



30.90~32.00m shear zone



34.58~ m shear zone



38.00~38.50m shear zone





# GEOLOGICAL LOG OF CORE DRILL

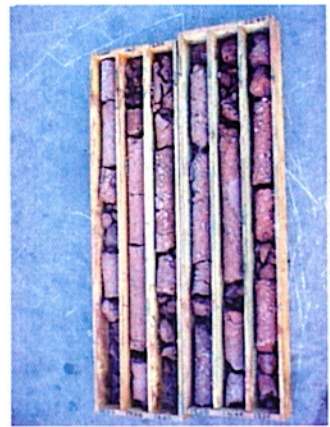
**Project:** JICA Study Team: Landslide Protection Page: 1 / 3  
**Core Drill #:** O-3 Site Location: Lower middle terrace facing gym Ref. #: B-3  
**Elevation:** 942.40 Inclinacion (Angle with respect to Horizontal): Vertical (90°)  
**Log Elaborated by:** Ing. Raul Flores Peñalba Date: October 27, 2001



B-3 0 00-6 00m



B-3 06 00-12 00m



B-3 12 00-18 00m

0.00~20.25m  
Detritus

WATER CONTENT END OF DRILLING	ELEVATION (M)	DRILL DEPTH (M)	GRAPHIC LOG	CLASSIFICATION AND PHYSICAL CONDITION (COLOR)
	942.40	0.00	[Graphic Log]	Detritus; area of rhyolite boulders with small lenses of clay
	941.40	1.00	[Graphic Log]	
	940.40	2.00	[Graphic Log]	
	939.40	3.00	[Graphic Log]	
	938.40	4.00	[Graphic Log]	
	937.40	5.00	[Graphic Log]	
OCT. 11	936.40	6.00	[Graphic Log]	
5.70	935.40	7.00	[Graphic Log]	
	934.40	8.00	[Graphic Log]	
	933.40	9.00	[Graphic Log]	
	932.40	10.00	[Graphic Log]	
	931.40	11.00	[Graphic Log]	
	930.40	12.00	[Graphic Log]	
	929.40	13.00	[Graphic Log]	
	928.40	14.00	[Graphic Log]	
	927.40	15.00	[Graphic Log]	Clay lens with detritus material of sands, gravels and pebbles