



“Landslide at sunuapa 401 (hydrocarbon exploration well). Risk reduction by mitigation measures: drainage, piles barrier and anchorages system, shotcrete and reforestation, Chiapas, México”.

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We report the case of a landslide of hydrocarbon exploration well “Sunuapa 401” located in Chiapas, Mexico. First we identified the determinants and triggers factors (morphology, geology, rain, seismic and volcanic activity, human activity, etc); second we assessed the threat, vulnerability and risk from geotechnical stability analysis (safety factor and critical failure surface); third, by using the methodology of valuation factors, stabilization processes were selected and designed, and finally they were built by Petróleos Mexicanos, in order to avoid a disaster (environmental, ecological and social). These construction processes included drainage elements, flattening and benching of slopes, piles barrier and anchors, shotcrete and reforestation.