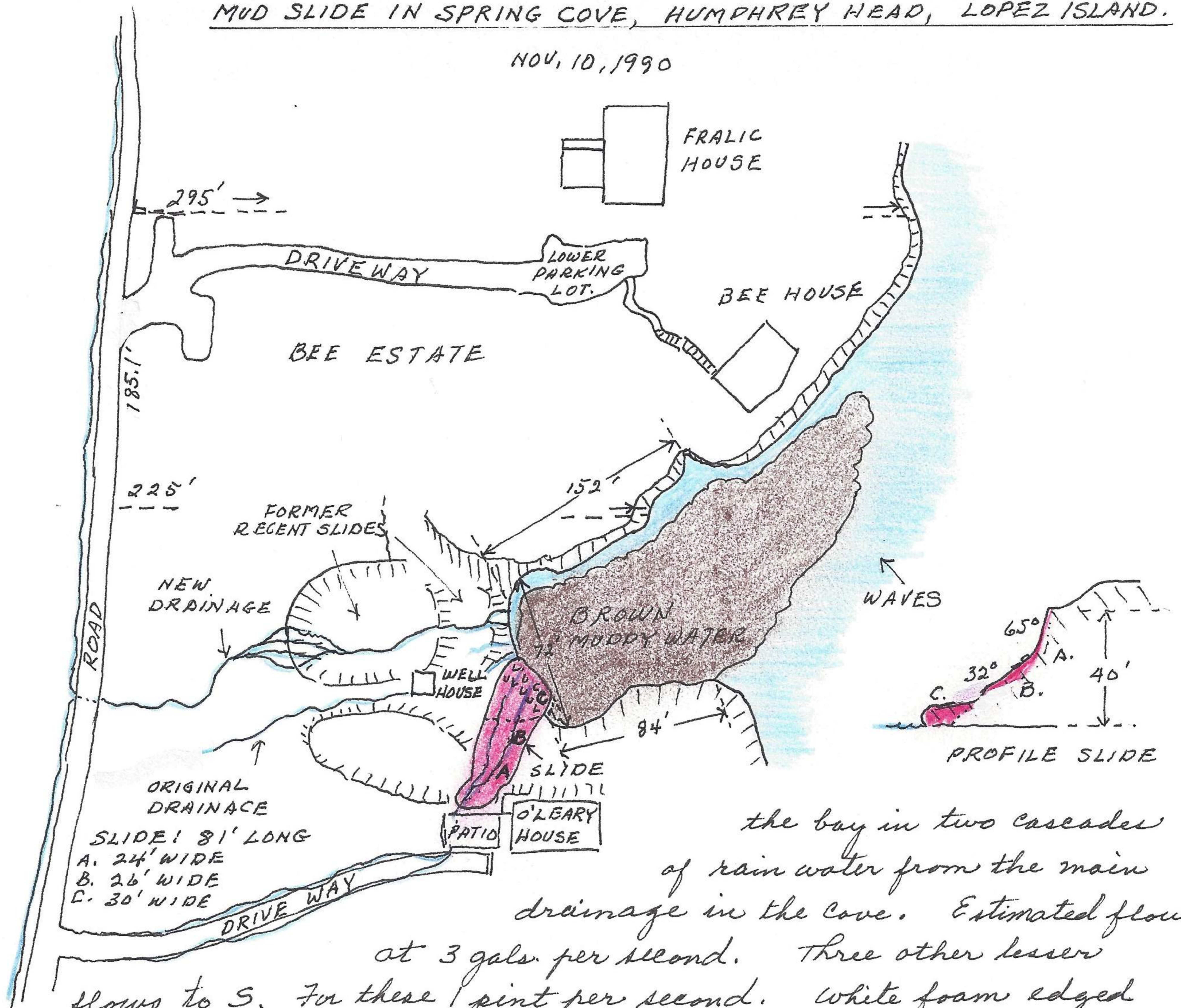


MUD SLIDE IN SPRING COVE, HUMPHREY HEAD, LOPEZ ISLAND.

NOV. 10, 1990



the bay in two cascades of rain water from the main drainage in the cove. Estimated flow at 3 gals. per second. Three other lesser flows to S. For these 1 pint per second. White foam edged the water channels and especially below cascades at edge of bay water covering 3 square yards there. Water from cove slightly brownish. The slide was smooth except a few segments of rocks below crest and hummocky at the terminal. At 11:40 AM water volume same and muddy zone temporarily extended 50' NE. The waves in N Lopez Sound in whitecaps. 12:00 P.M. water volume same and muddy water as diagrammed above. There was a distinct line of separation between muddy and clear water, especially along shore. 1:00 P.M. water volume constant and muddy water incredibly same since slide occurred. 4:00 P.M. clear drainage water from cove is now reduced 40%, muddy water reduced 50% and concentrated SW end cove. Beach now exposed has 6 rivulettes from cove.

Nov 11, 1990

Water in Spring Cove clear as is the bay, and entering at approx 1 gal. per second. (cascade drainage) at 12:30 A.M.