Sample No:	S033 70 GTV 1	S033 70 GTV 2
Rock Type:	Basalt, Volcanogenic breccia (glassy)	Tuffaceous (?) Phosphorite
Color:	Moderate brown (5YR 3/4) & (matrix) Grayish orange (10YR 7/4) (Cement)	yellowish-gray (5Y 7/2)
Texture:	Clastic	granular
Matrix:	basaltic glass fragments ±60%	foraminiferal tests (phosphorized, mostly obliterated) volcanic ash(?) (smectitized)
Cement:	phosphorite (francolite ?) ±40%	→ do, some nontronite component(?)
Average grain size:	± 2 mm (varies greatly) (range: medium fine sand — coarse gravel)	— not determined —
" grain shape:	angular	— not determined —
Sorting:	very poorly sorted	well-sorted (?)
porosity:	80%	±15%
Permeability:	— no —	±12%
Alteration:	Complete(?) (oxidation, hydration, zeolitization, smectitization, phosphorization of calcareous ooze cement)	Complete (phosphorization of $CaCO_3$ component, smectitization of ash(?) component)
Remarks:	Small fragment (pebble size) of crust-covered basaltic glass breccia; loosely, weakly cemented by zeolites and phosphorite with much open space; infiltration with dendritic manganese oxide (todorokite ?); contains fragments reminiscent of 64DK1 in which scoriaceous amygdaloidal basalt grades outward into amygdaloidal altered glass (palagonite ?) (same origin for this breccia ?); serves as substrate for ± 2mm-thick knobby, warty ferromanganese encrustation deposit	a few gravel-to-pebble-size fragments of fairly well-indurated phosphorite, [illegible] of color, texture and opacity, may have a volcanic ash component, totally altered to nontronite (?); penetrated by fracture from which todorokite (?) dendrites penetrate into the phosphorite ± 1mm; also such deposits [illegible] fracture faces along with brown $Fe(OH)_3$? [illegible] as substrate for ± 2mm-thick arborescent ferromanganese oxide deposits.