

Data Repository item 2003029

TABLE DR1. THIN-SECTION PETROGRAPHY OF CENOZOIC SANDSTONES FROM THE SOUTHERN MMVB \*

Thin section number	SJ-SS1	SJ-SS2	SJ-SS2B	SJ-SS5A	SJ-SS10	SJ-SS11	SJ-SS12	SJ-SS14	SJ-SS15	SJ-SS16	PB-SS1	PB-SS2
Monocrystalline quartz	41.0	37.0	33.0	22.0	30.0	41.0	35.0	43.0	61.8	67.0	46.9	34.0
Potassium feldspar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	4.0
Plagioclase	3.0	1.0	1.0	0.0	1.0	2.0	1.0	0.0	0.0	0.0	17.0	34.1
Polycrystalline quartz	20.0	36.0	44.0	36.6	50.0	46.0	49.0	45.0	31.4	26.0	7.3	4.1
Metamorphic grains †	1.0	2.0	8.0	2.4	16.0	8.0	12.0	10.0	3.9	6.0	11.5	5.2
Sedimentary grains §	35.0	24.0	14.0	39.0	3.0	3.0	3.0	2.0	2.0	1.0	9.4	18.6
Accessory components #	zr, bt	ap, zr, bt	ap, bt	zr, ap	ap	ap, zr		ap, zr	ap, zr, bt		hn, bt, vf, ap, zr	hn, bt, vf, ap, zr
Comments **	msog		debris flow									

\* Note: Total percentage of each composition reported

† Low grade metamorphic rock fragments (schists, phyllites, micaceous gneiss)

§ Chert and mudstone fragments

# ap (apatite), bt (biotite), hn (hornblende), zr (zircon), vf (volcanic fragments),

\*\* msog (mudstone with organic matter)

TABLE DR2. MACROSCOPIC PETROGRAPHIC DETERMINATIONS OF SANDSTONES

## FROM THE SOUTHERN MMVB \*

Sample number	Total quartz	Total feldspar	Metamorphic grains †	Sedimentary grains §	Accessory components #
SJ-SS3	83.0	2.0	5.0	10.0	bt, mv
SJ-SS4	82.0	1.0	6.0	11.0	
SJ-SS6	89.0	1.0	5.0	5.0	mv
SJ-SS7	90.0	1.0	4.0	5.0	mv
SJ-SS8	90.0	2.0	3.0	5.0	
SJ-SS9	90.0	2.0	3.0	5.0	bt ?
SJ-SS13	89.0	1.0	5.0	5.0	mv
SJ-SS13A	90.0	1.0	4.0	5.0	mv
PB-SS4	72.0	15.0	5.0	8.0	hn, bt, mv, vf
PB-SS3	75.0	10.0	5.0	10.0	hn, bt, mv, vf

\* Note: Total percentage of each composition reported

† Low grade metamorphic rock fragments (schists, phyllites, micaceous gneiss)

§ Chert and mudstone fragments

# bt (biotite), hn (hornblende), mv (muscovite), vf (volcanic fragments)