TABLE 1

Region	Uplift rate (V_z)	Thermal gradients	Topographic gradients	Structure: Dip of shear planes	Structure: Volume change	Structure: Permeability	Fluid chemistry: Depth*	Fluid chemistry: Temperature estimates (°C)	Fluid chemistry: Comp	Fluid chemistry: Isotopes O	Fluid chemistry: Isotopes C	Dominant driving force for fluid flow
Inboard	>5 mm/y	High	*Long wavelength:* steep≈11° *Short wavelength* steep≈45°	Steep	Minor	<5 km; $>10^{-14}$ m^2 >5km; dynamic only	near-surface A, B	<100	H_2O + minor CO_2	Meteoric	? Meteoric	Topographic gradients Thermal gradients Dilatancy kneading
							≤3 km C	250 - 350	H_2O, variable CO_2, NaCl	Partially rock-exchanged meteoric	Partially rock exchanged meteoric	
							Near-surface E, F	Variable, 50 - 250	H_2O	Rock-exchanged	Fractionated or organic exchanged	
Main Divide +							<1 to 3km D	240 - 280	H_2O minor CO_2	Meteoric, rock-exchanged	? Rock-exchanged	
						Static; moderate to high at shallow levels	In sediments G	50	H_2O	Meteoric	Organic-exchanged	Net volume increase
	1-2 mm/y	Moderate	*Long and short wavelength:* steep≈35°	Seep and mixed	(+)							
						Dynamic; high at depths > 15 km	<1km H	100	H_2O	Rock-exchanged	Meteoric, rock exchanged	Dilatancy kneading at depth
							>2 km? I	200	H_2O	Rock-exchanged	? Rock-exchanged	
						Static at upper crustal levels;	In sediments (cf. G)	<100	H_2O	? Meteoric / marine	Organic-exchanged	
Outboard	0.5-1.0 mm/y	Low	*Long wavelength:* moderate ≈5°	Moderate	(-)	$>10^{-15}$ m^2						Topographic gradients sediment compaction
							Near surface in basement	<100	H_2O	Meteoric	Organic-exchanged	

* Letters refer to sample locations in Figure 2 and text

\+ Mixer is beneath 15km, not sampled, and not included in this table

Table 1 - Koons