

**Supplementary Information for Correction for a possible reversible adsorption over the
“inert” material**

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Figure S1: TAP multi-pulse experiment results showing the zeroth moments plotted as a function of pulse number for Oxygen (■), Hydrogen (▲) and Ethylene (●).

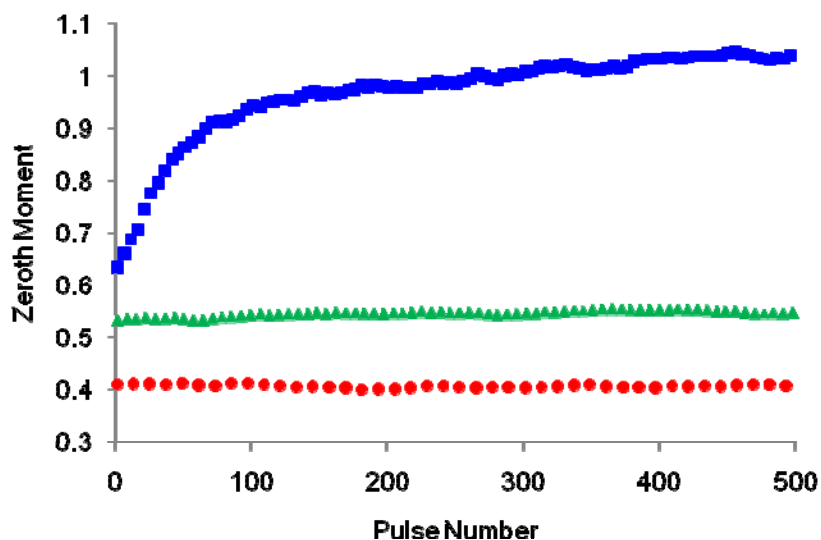


Figure S2: The desorption rate constants, r_l , of oxygen observed for (♦) fresh catalyst

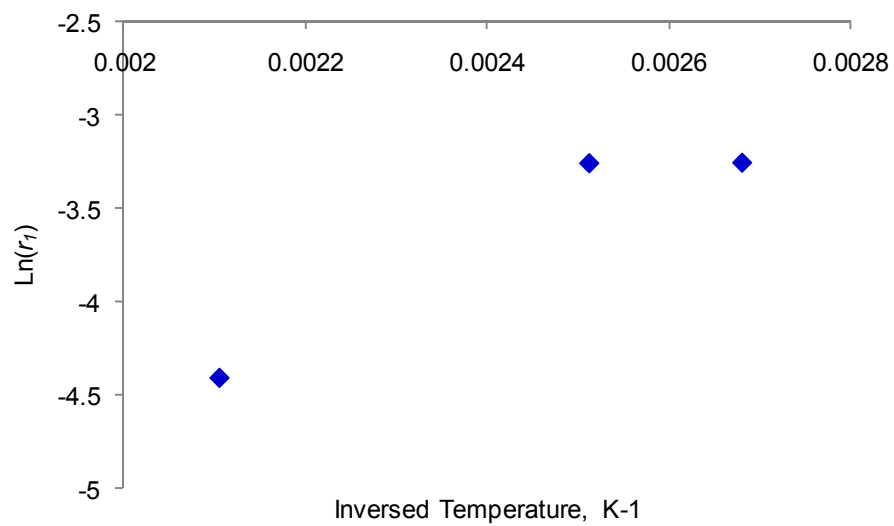


Figure S3: The desorption rate constants, K_d , of oxygen observed for (♦) fresh catalyst

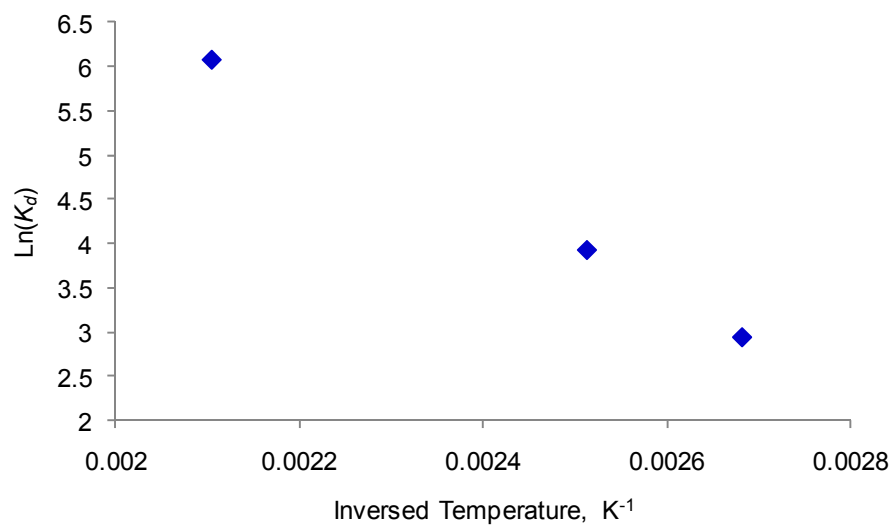


Figure S4: The adsorption rate constants, K_a , of oxygen observed for (♦) fresh catalyst

