

A novel in-situ N₂ generation system assisted by authigenic acid used for formation energy enhancement in oilfield

Supporting Information

Table S1 The parameters of the kinetic equation

Parameters	ΔE (kJ/mol)	m	n	A
Value	51.28	1.3291	2.0949	7.103×10^7

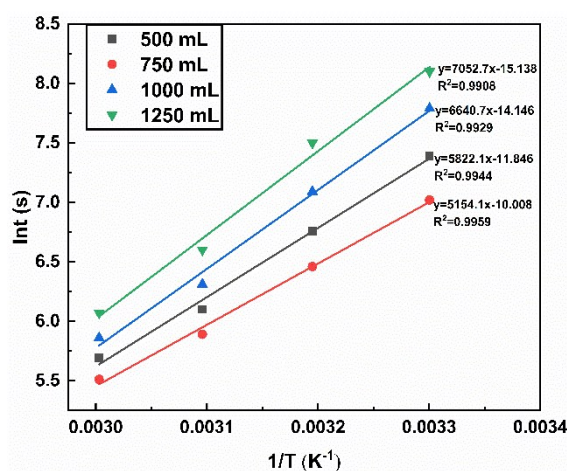


Fig. S1 Linear Relation Graph of Int-1/T

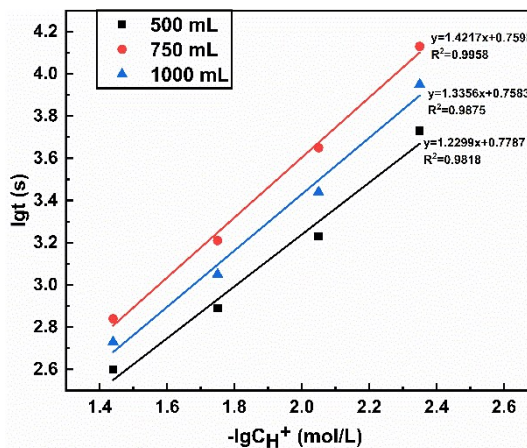


Fig. S2 Linear Relation Graph of lgt(-lgC_{H⁺})

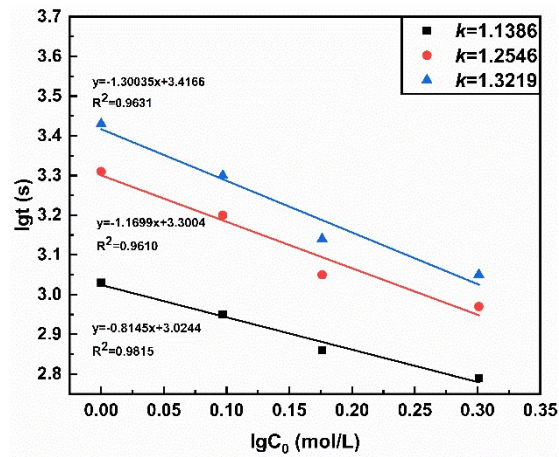


Fig. S3 Linear Relation Graph of $lgt - \lg C_0$

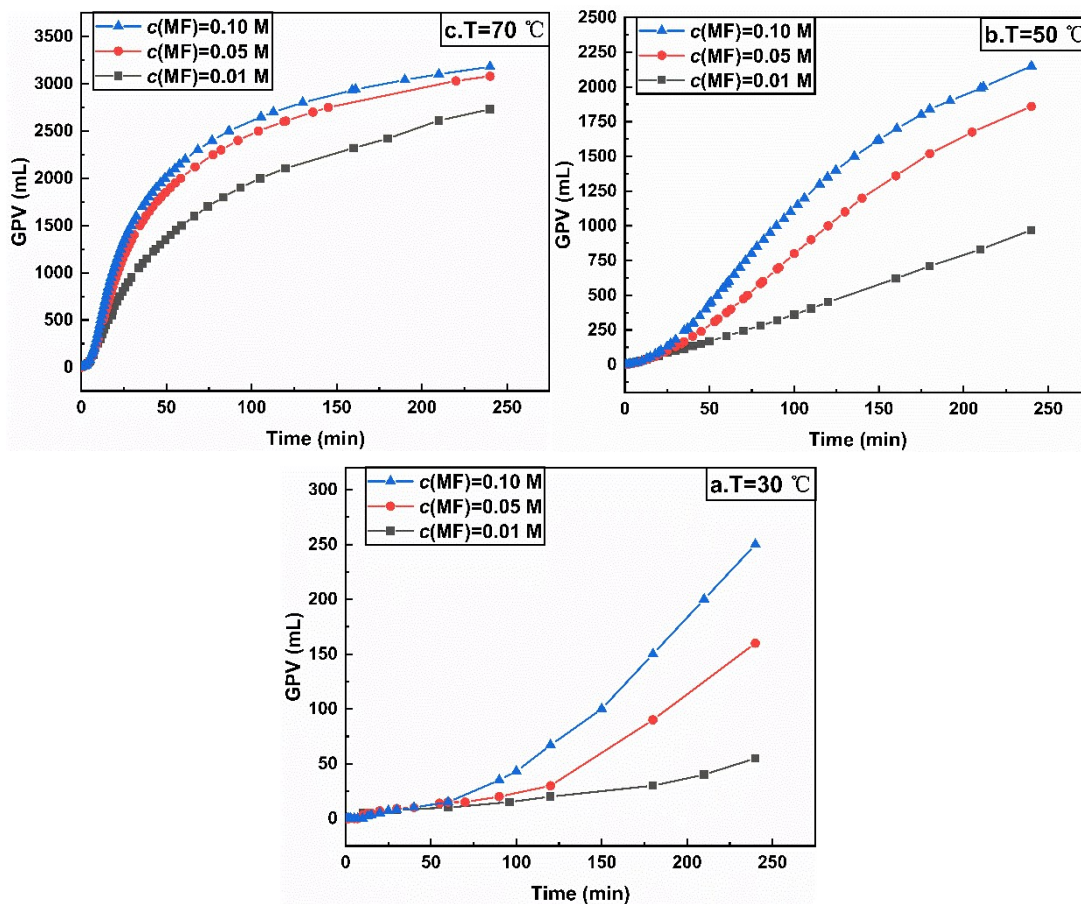


Fig. S4 GPV – time relationship with different concentration of methyl formate(MF) at 30 °C(a), 50 °C(b), 70 °C(c)

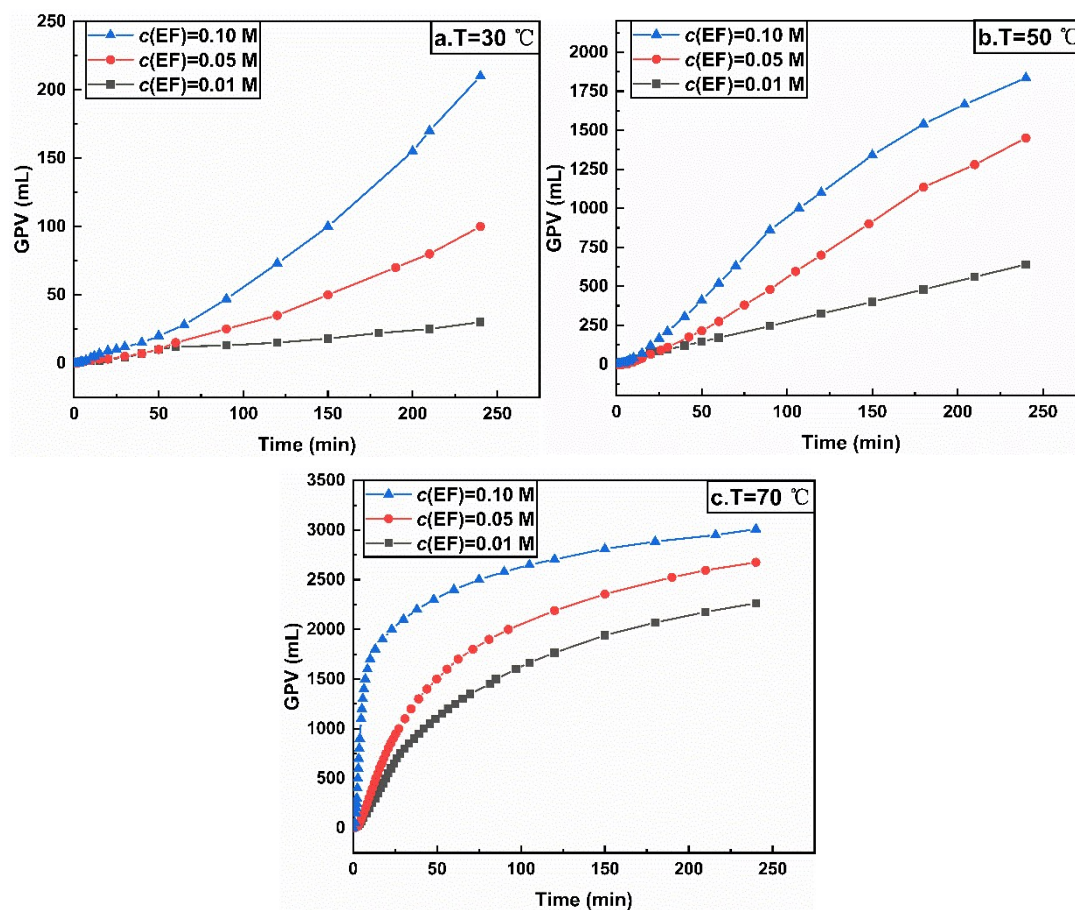


Fig. S5 GPV – time relationship with different concentration of ethyl formate (EF) at 30 °C(a), 50 °C(b), 70 °C(c)

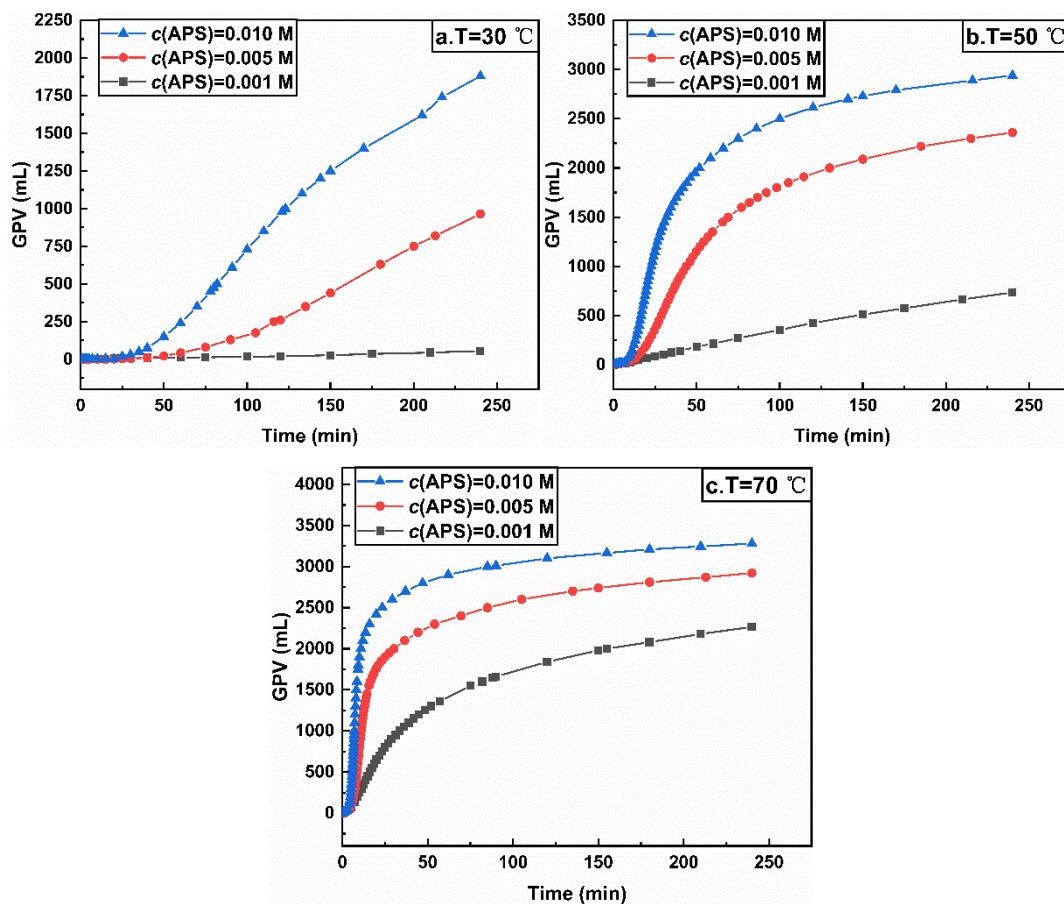


Fig. S6 GPV – time relationship with different concentration of ammonium persulfate(APS) at 30 °C(a), 50 °C(b), 70 °C(c)

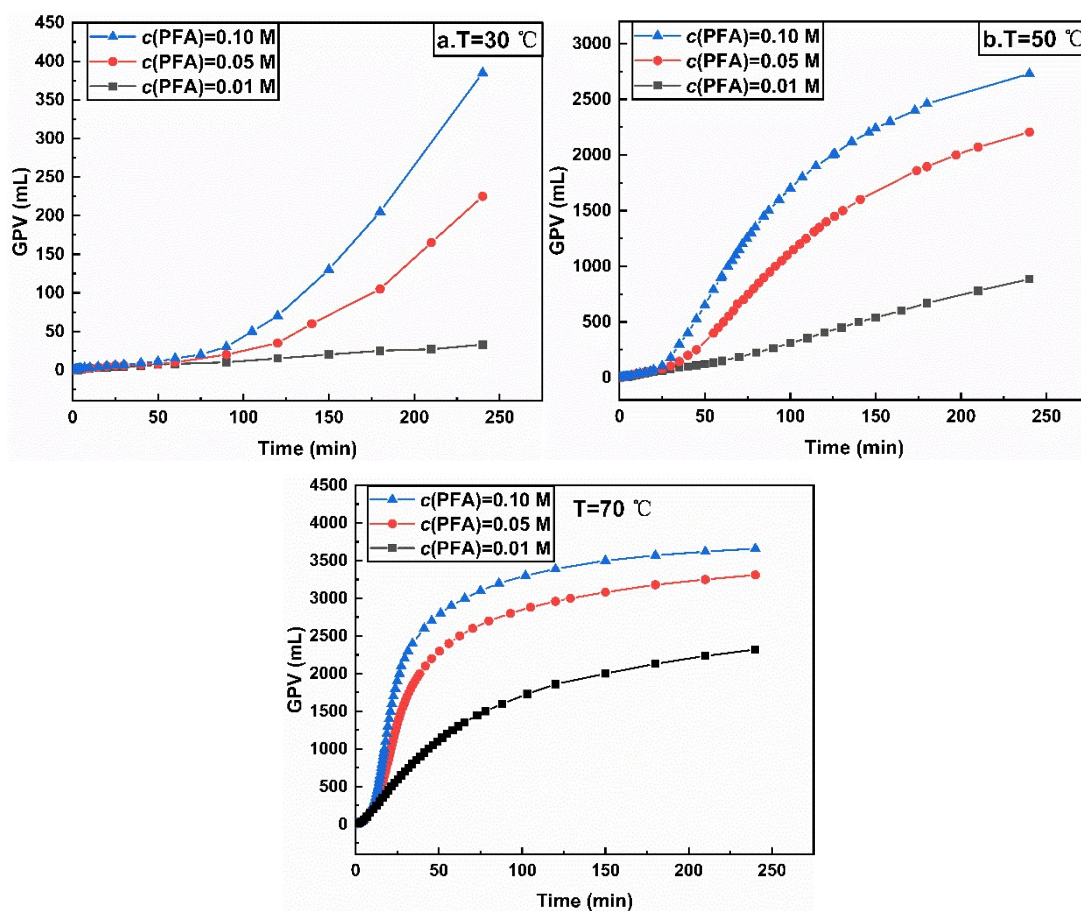


Fig. S7 GPV – time relationship with different concentration of paraformaldehyde(PFA) at 30 °C(a), 50 °C(b), 70 °C(c)