Fun Practice Problem!

A chemist found four bottles of aqueous solutions numbered 1-4. She knew that the identities were KI, Pb(NO₃)₂, HNO₃, and Na₂CO₃. She just didn't know which chemical was in each bottle. The chemist mixed the chemicals together in all possible combinations and her results are below. It's your job to analyze her results and determine the identity of the chemical in each bottle.

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	ГТ	1	2	3	4 4 4 4 4
S	1	X	No reaction	Bubbles	No reaction
AMOS .	2	X	X	White precipitate	Yellow precipitate
ph (wozh	3	X	X	X	No reaction
wat	4	X	X	X	X
ILI		2			

Show your work in the space below and fill in the chart with the correct identities!

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(143)
$$HWO_3(O_4) + Va_1CO_3(a_4) \rightarrow Va_2CO_3(a_4) \rightarrow Va_2CO_2$$
 $H + CO_3^2 - O_4 + CO_2$

Identities of the chemicals:

Number	Identity
1	HWOZ
2.	Ph(Nb),
3	Was dos
4	KI,