Definable sets generated by standard part sets

Let R be a sufficiently saturated o-minimal expansion of a real closed field, set $\mathcal{O} := \{r \in R : |r| < m \text{ for some } m \in \mathbb{N}\}$, let $\mathrm{st} : \mathcal{O} \to \mathbb{R}$ be the standard part map (it induces for every n a map $\mathrm{st} : \mathcal{O}^n \to \mathbb{R}^n$), and for $X \subseteq R$ define $\mathrm{st}(X) := \mathrm{st}(X \cap \mathcal{O})$. Let $\mathbb{R}_{ind}$ be the field $\mathbb{R}$ expanded by all sets of the form $\mathrm{st}(X)$, where $X \subseteq R^n$ is definable in R, $n = 1, 2, \ldots$. It was observed by Hrushovski, Peterzil and Pillay that the structure $\mathbb{R}_{ind}$ is o-minimal as a consequence of a theorem by Baisalov and Poizat. Without using this theorem we obtain the following stronger version of this fact: the subsets of $\mathbb{R}^n$ that are definable in $\mathbb{R}_{ind}$ are exactly the finite unions of sets of the form $\mathrm{st}(X) \setminus \mathrm{st}(Y)$, where $X, Y \subseteq R^n$ are definable in R. We also discuss some consequences of the (proof of the) above.