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Junxiao Zhao* (jxzhao@gucas.ac.cn), School of Mathematical Sciences of Graduate, University of Chinese Academy of Sciences, Shijingshan District Yuquanlu No.49A, Beijing, 100049, Peoples Rep of China, and **Robert Conte**, SPEC CEA/Saclay, Orme des Merisiers, Gif-sur-Yvette Cedex, 91191 Paris, France. *A connection between HH3 and KdV with one source.*

In the system made of KdV with one source, we first show by applying the Painlevé test that the two components of the source must have the same potential. Then, we show that the computation of the Lax pair naturally introduces a new term proportional to the inverse of the squared eigenfunction. This allows us to prove the identity between the travelling wave reduction and one of the three integrable cases of the cubic Hénon-Heiles system. (Received September 20, 2007)