^{163}Re

"Alpha decay studies of very neutron deficient isotopes of Hf, Ta, W, and Re" was published in 1979 by Hofmann et al. describing the observation of ^{163}Re (1979Ho10). Targets of ^{103}Rh, ^{nat,108,110}Pd, and ^{107,109}Ag were bombarded with beams of ^{58}Ni from the GSI UNILAC linear accelerator. Evaporation residues were separated with the high-velocity SHIP separator. "In the investigated reactions the eleven new isotopes $^{161-164}$Re, ^{160}W, $^{157-161}$Ta, and ^{156}Hf could be identified." The half-life of 260(40) ms reported for ^{163}Re corresponds to an isomeric state and the ground state half life (390(72) ms) was measured eighteen years later by Davids et al. (1997Da07).

Adapted from reference (2012Ro36)

1979Ho10 S. Hofmann, W. Faust, G. Munzenberg, W. Reisdorf *et al.*, Z. Phys. A **291**, 53 (1979).

1997Da07 C. N. Davids, P. J. Woods, J. C. Batchelder, C. R. Bingham *et al.*, Phys. Rev. C **55**, 2255 (1997).

2012Ro36 R. Robinson and M. Thoennessen, At. Data Nucl. Data Tables **98**, 911 (2012).

Please cite this abstract as: "FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:10.11578/frib/2279152"