

A Prototype Application for Machine Learning-Based Anomaly Detection in Well Log Data

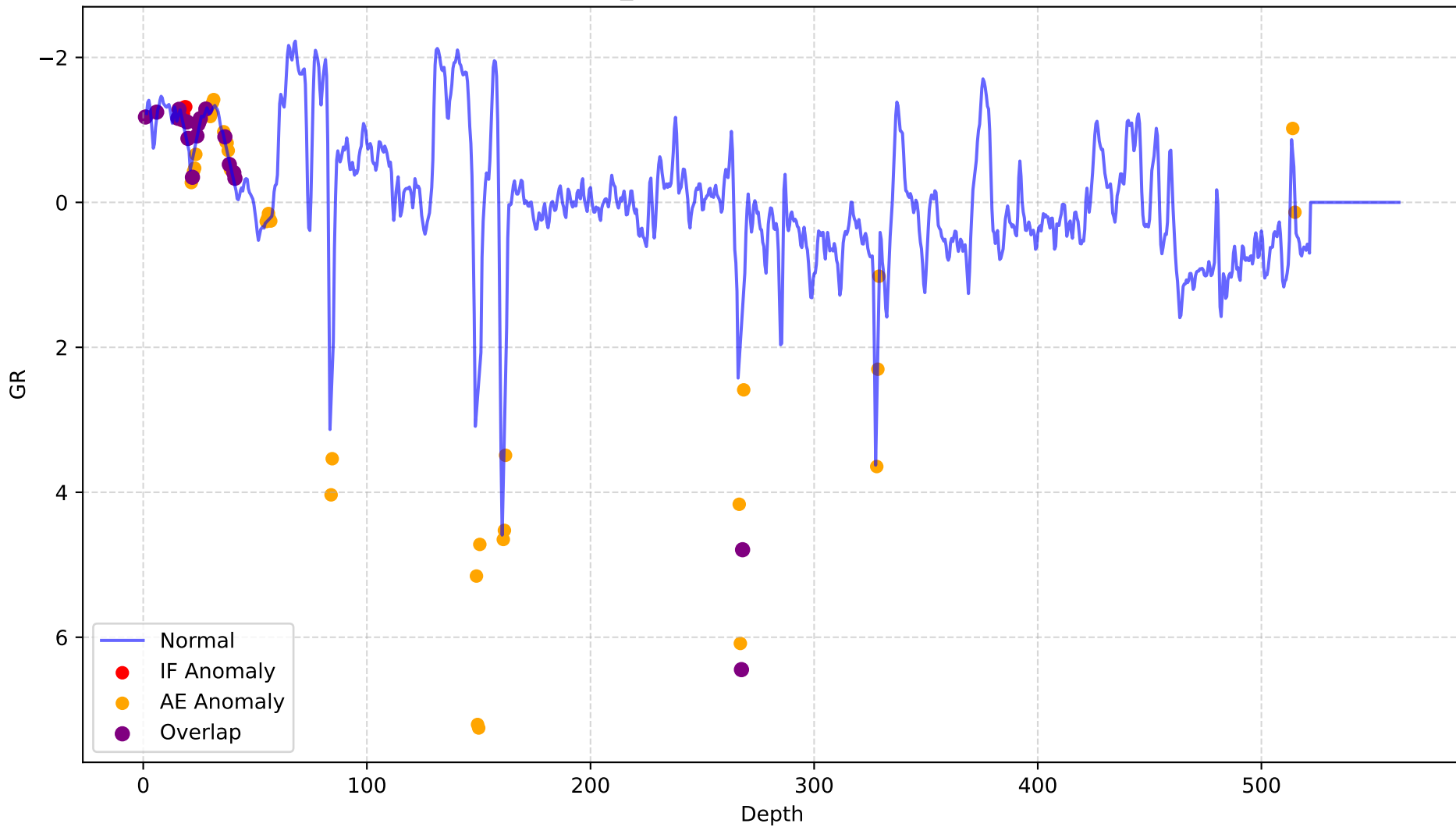
Author: Umar Zakariyya Muhammad

Email: zakariyyaumarm@gmail.com

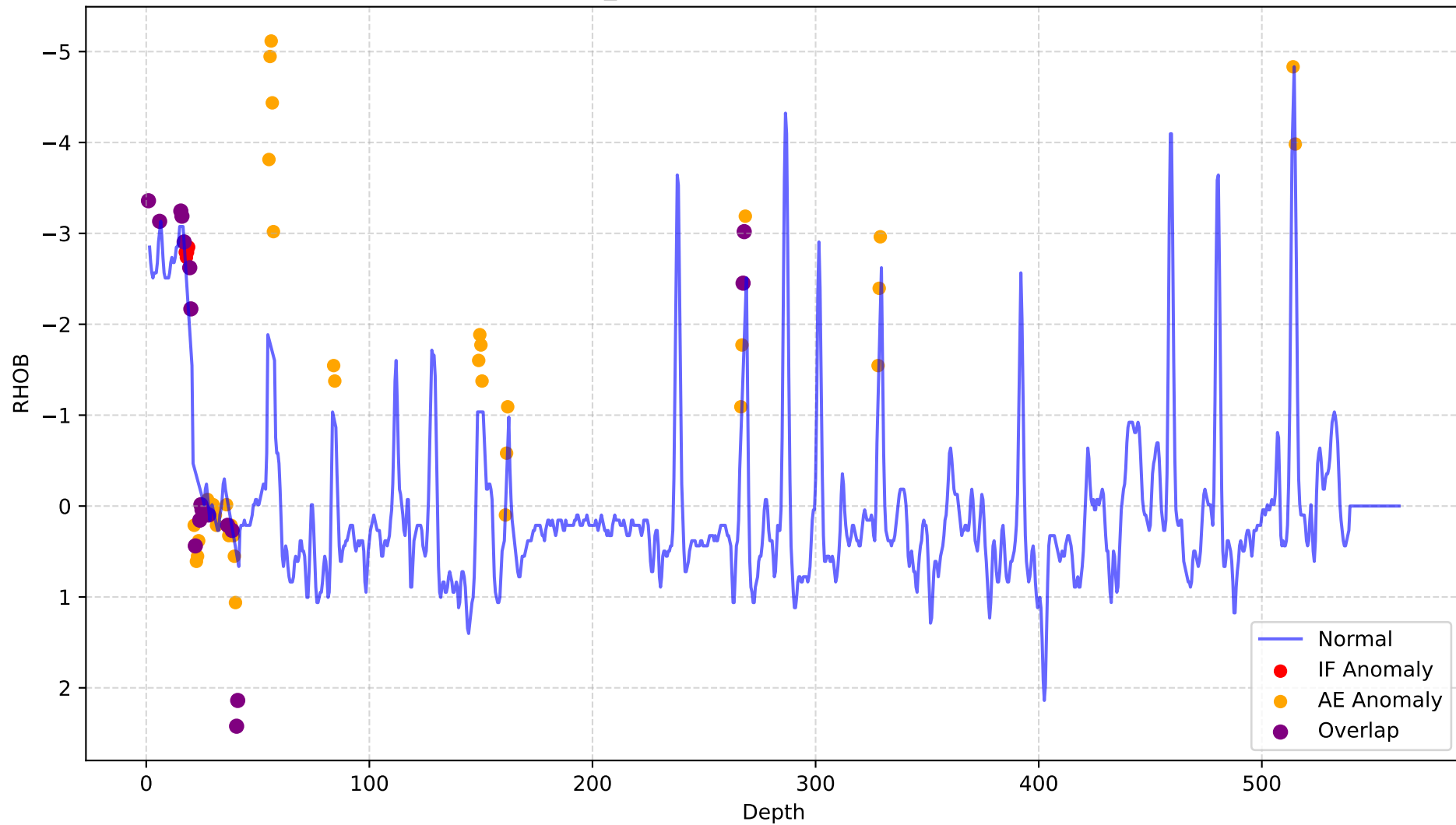
Phone: +234 8100715174

Well	Total Points	F_Anomalie	IF_%	AE_Anomalie	AE_%	Overlap	Overlap_45	AE_Recon_MAE	AE_Recon_Std
Well_1	1122	23	2.05	57	5.08	19	1.69	0.004736	0.008891
Well_2	1081	22	2.04	54	5.0	14	1.3	0.000953	0.001326
Well_3	998	20	2.0	50	5.01	12	1.2	0.001678	0.003948
Well_4	1196	24	2.01	60	5.02	18	1.51	0.001054	0.003074

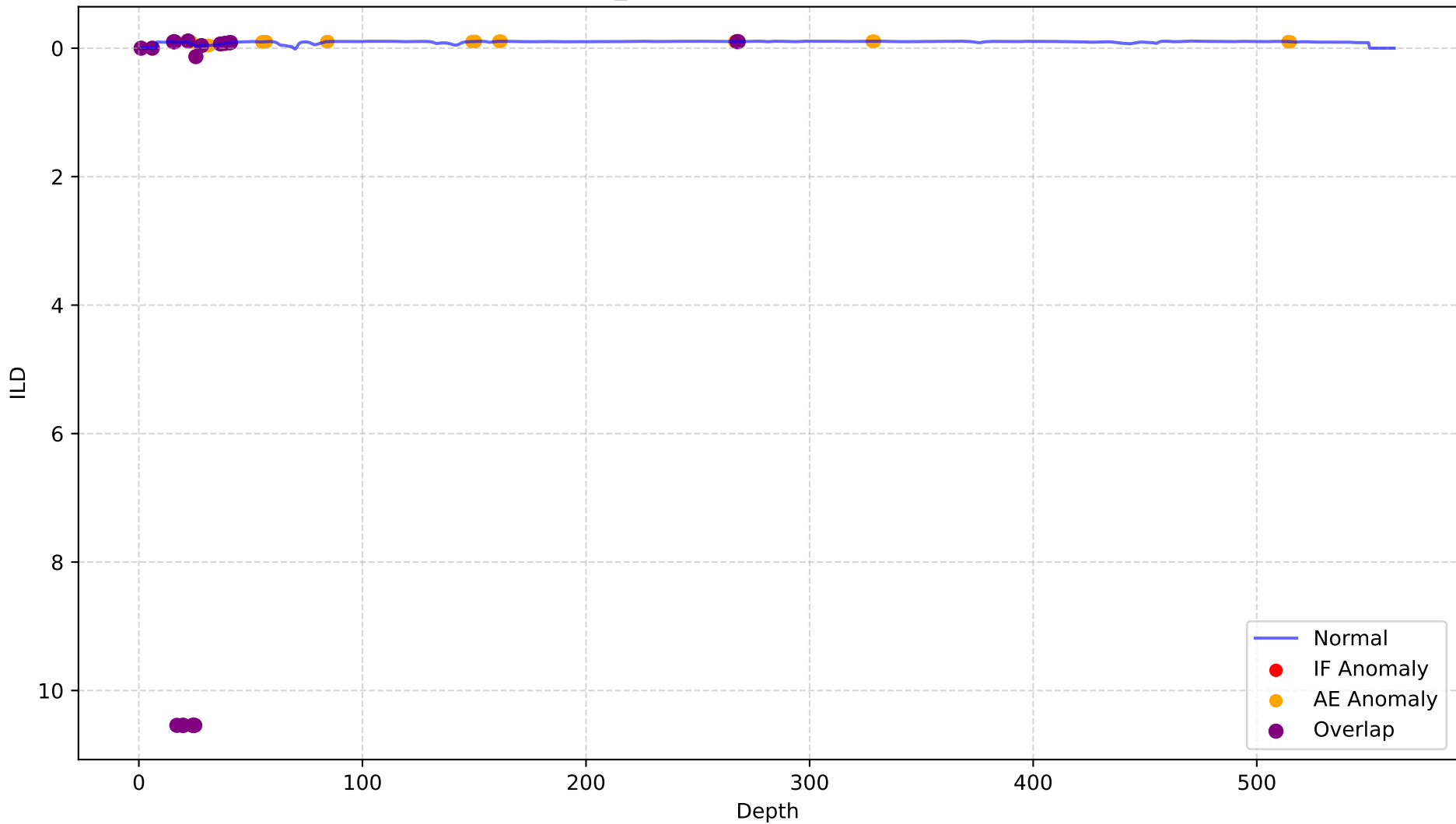
Well_1 - GR (Anomaly Detection)



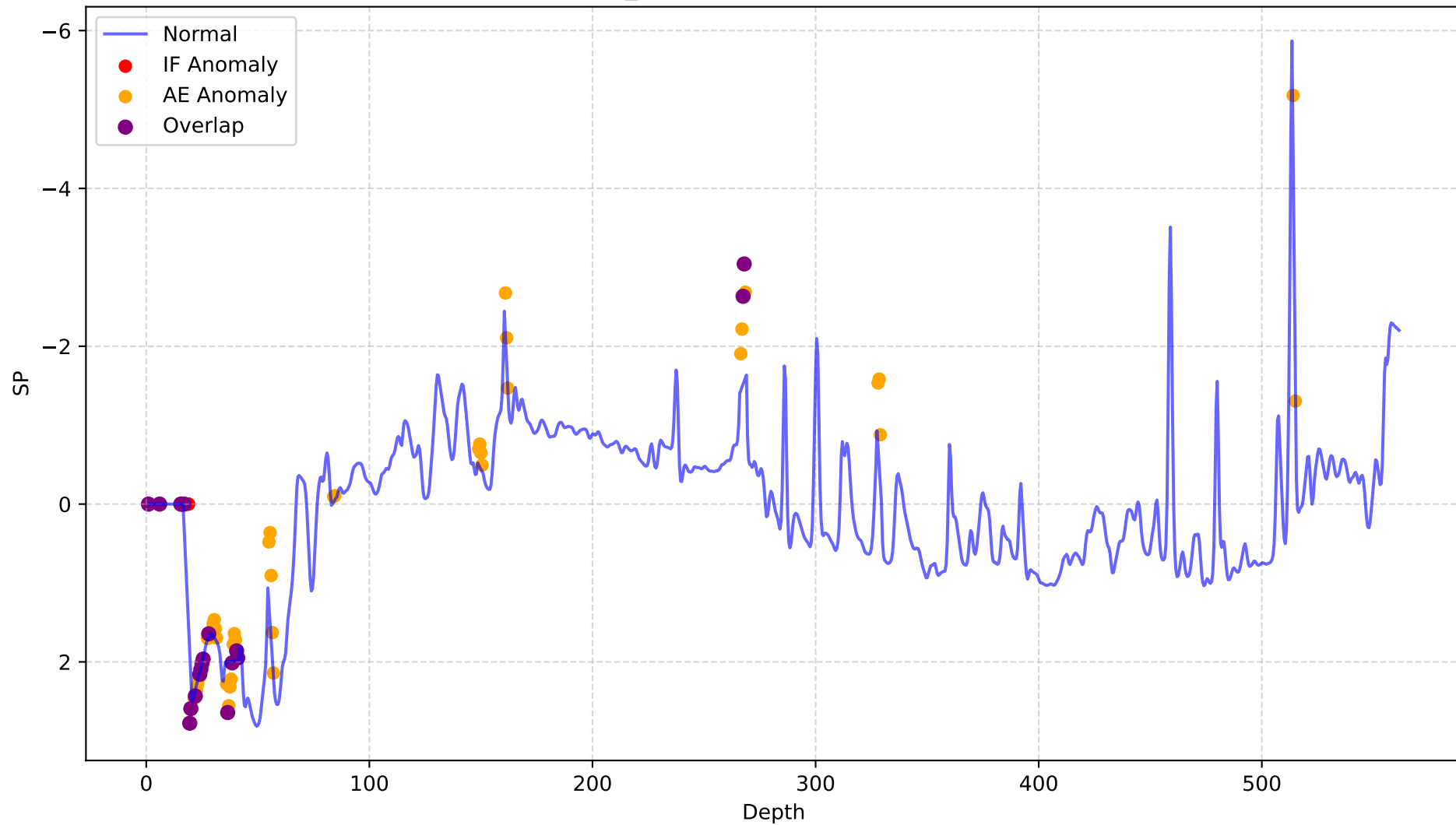
Well_1 - RHOB (Anomaly Detection)



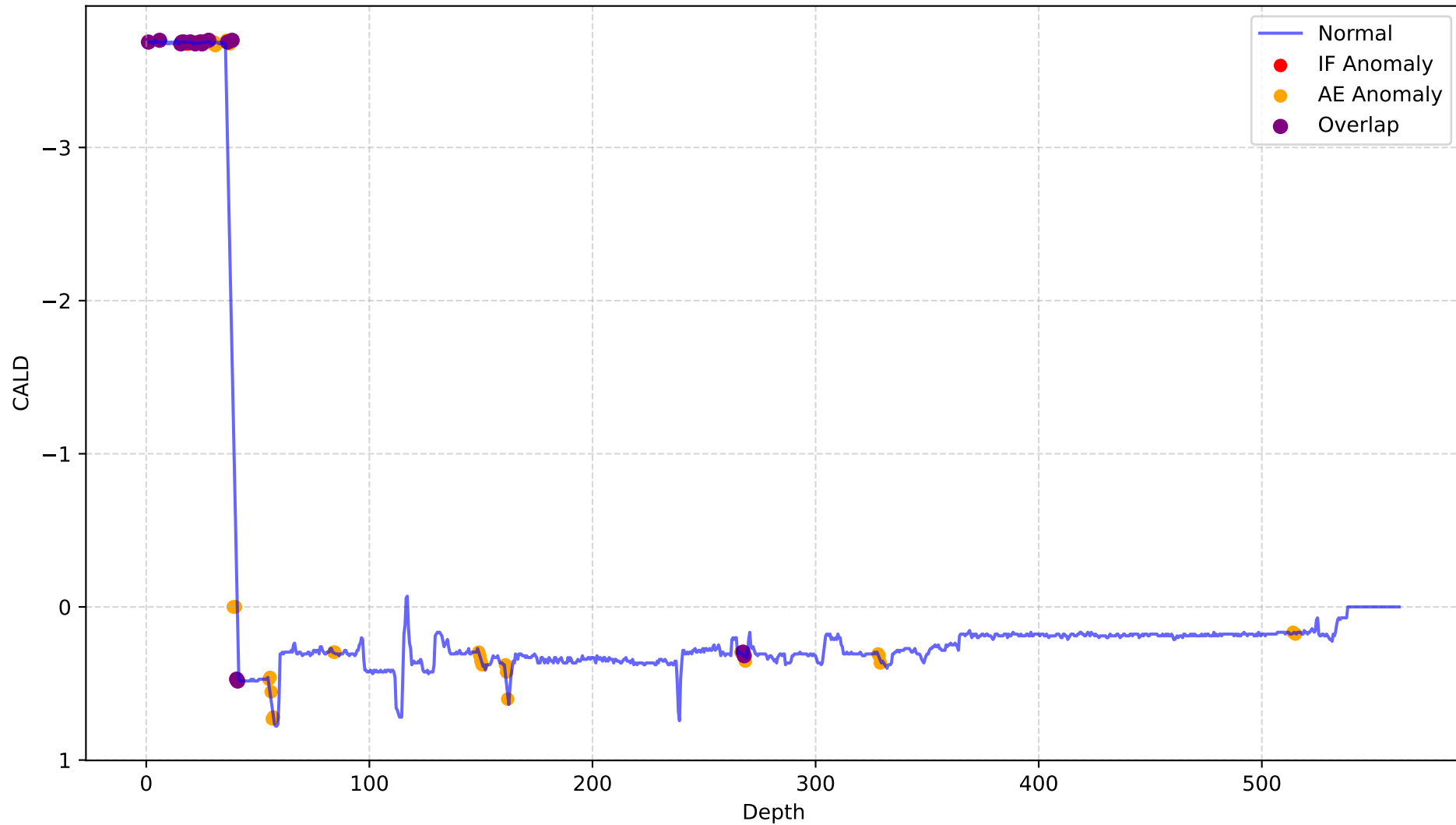
Well_1 - ILD (Anomaly Detection)



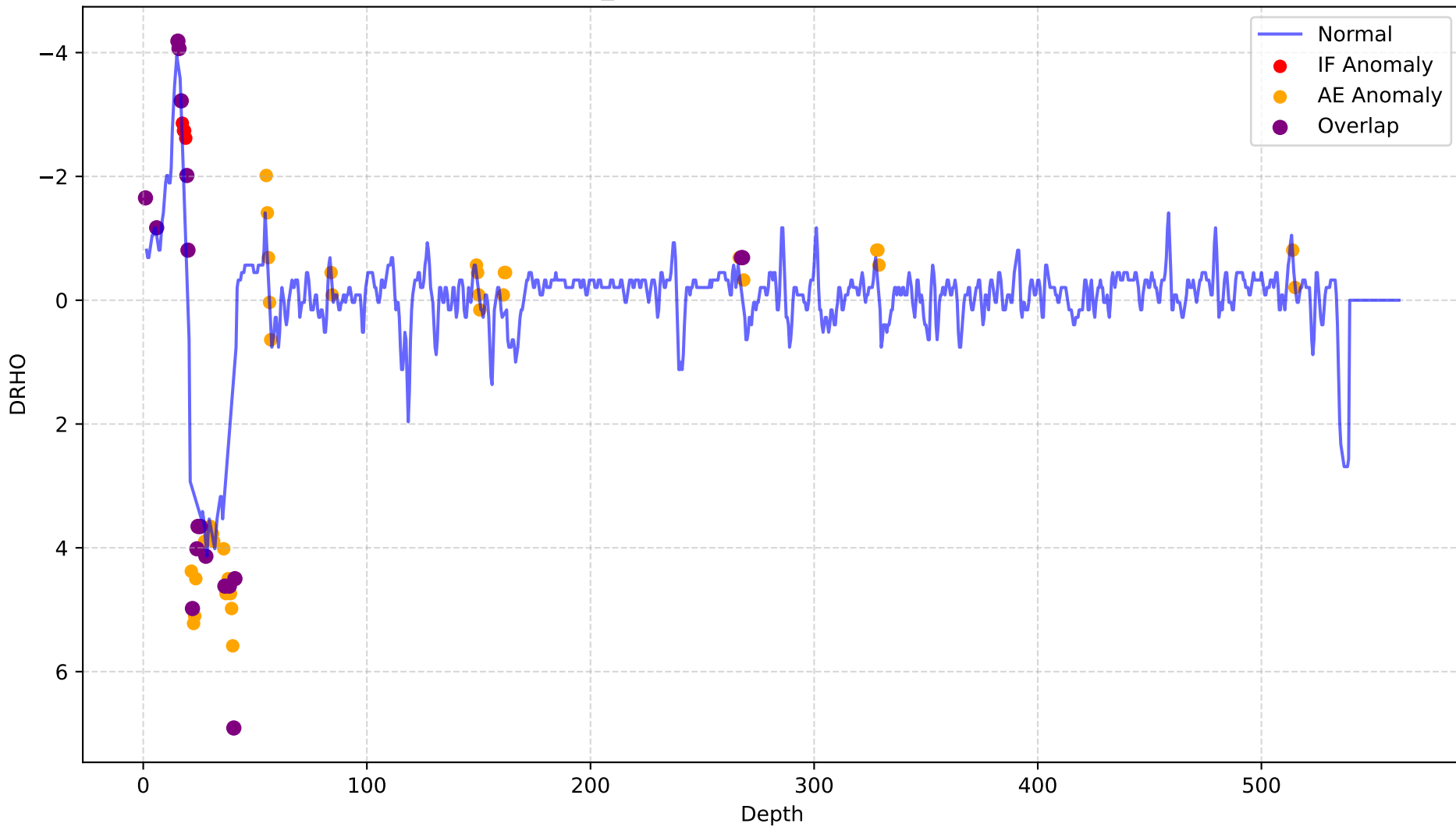
Well_1 - SP (Anomaly Detection)



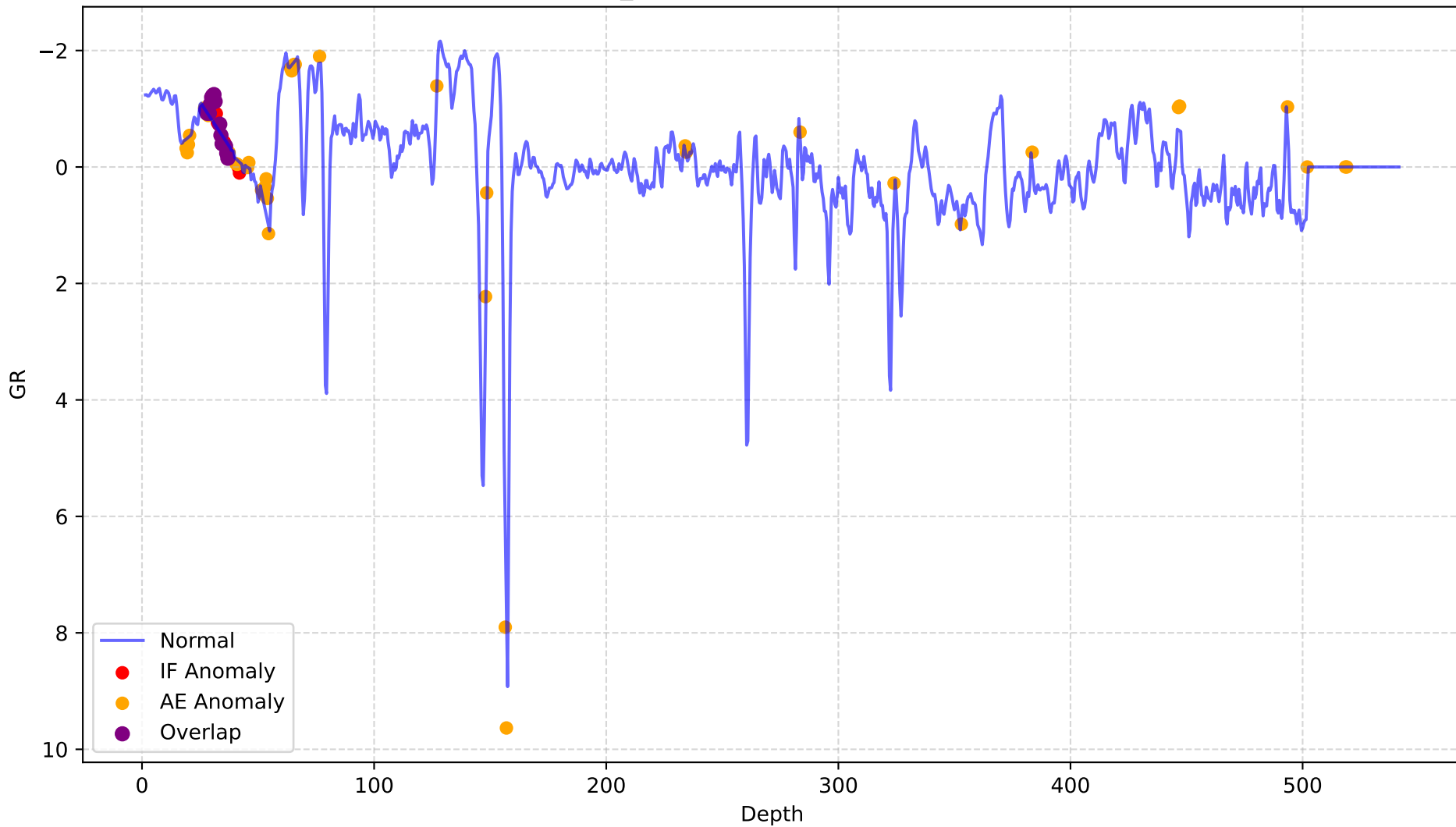
Well_1 - CALD (Anomaly Detection)



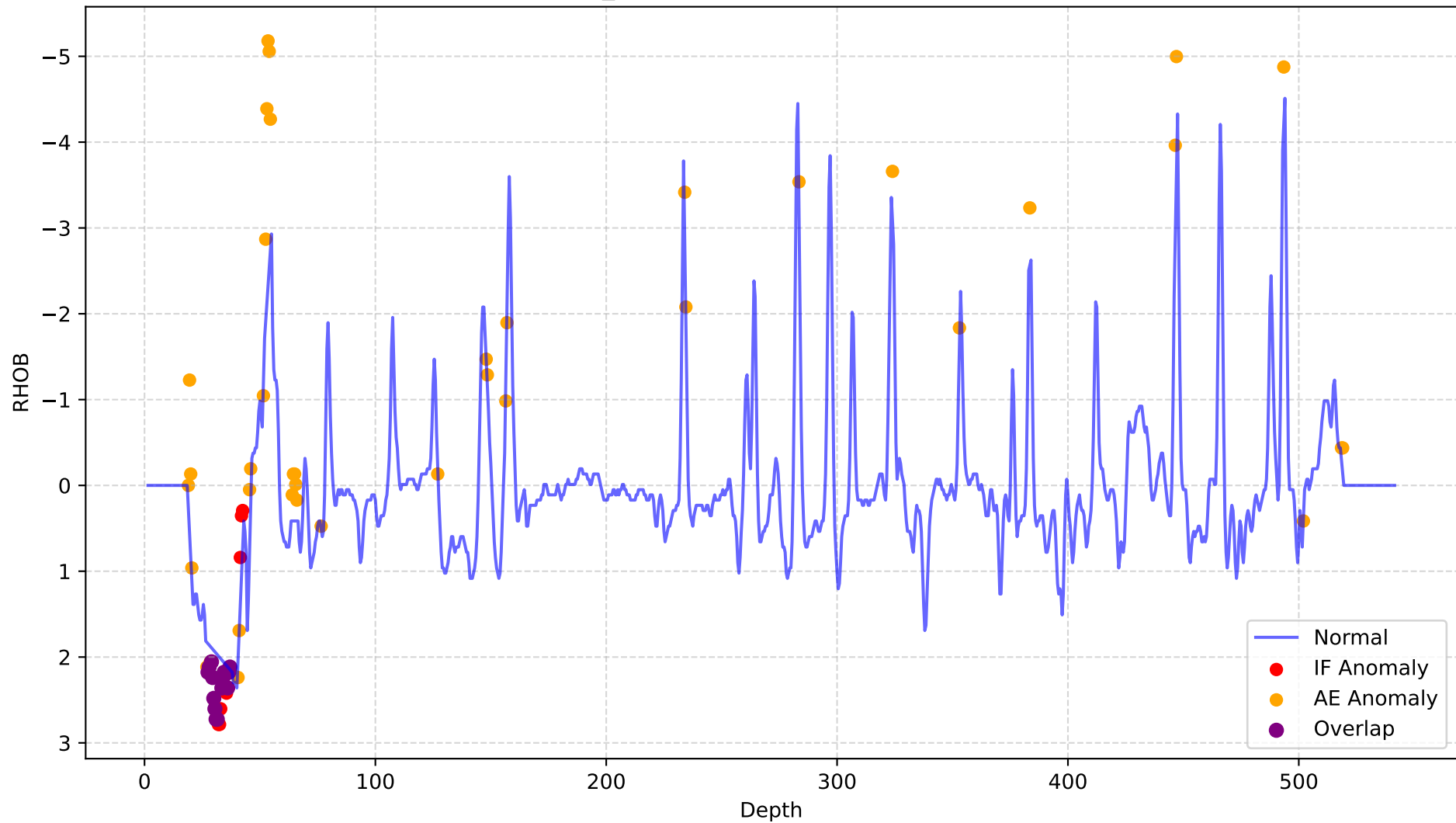
Well_1 - DRHO (Anomaly Detection)



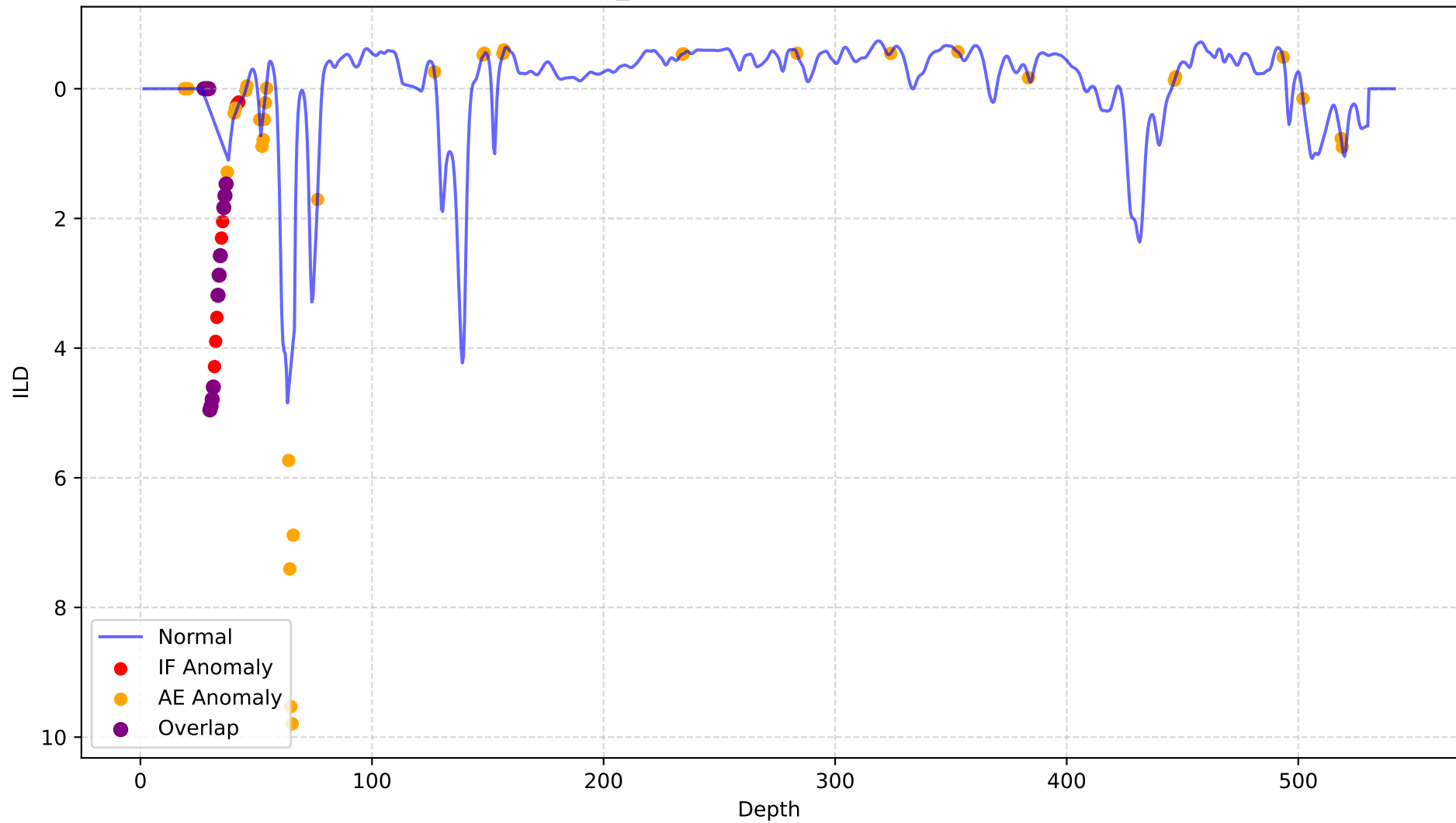
Well_2 - GR (Anomaly Detection)



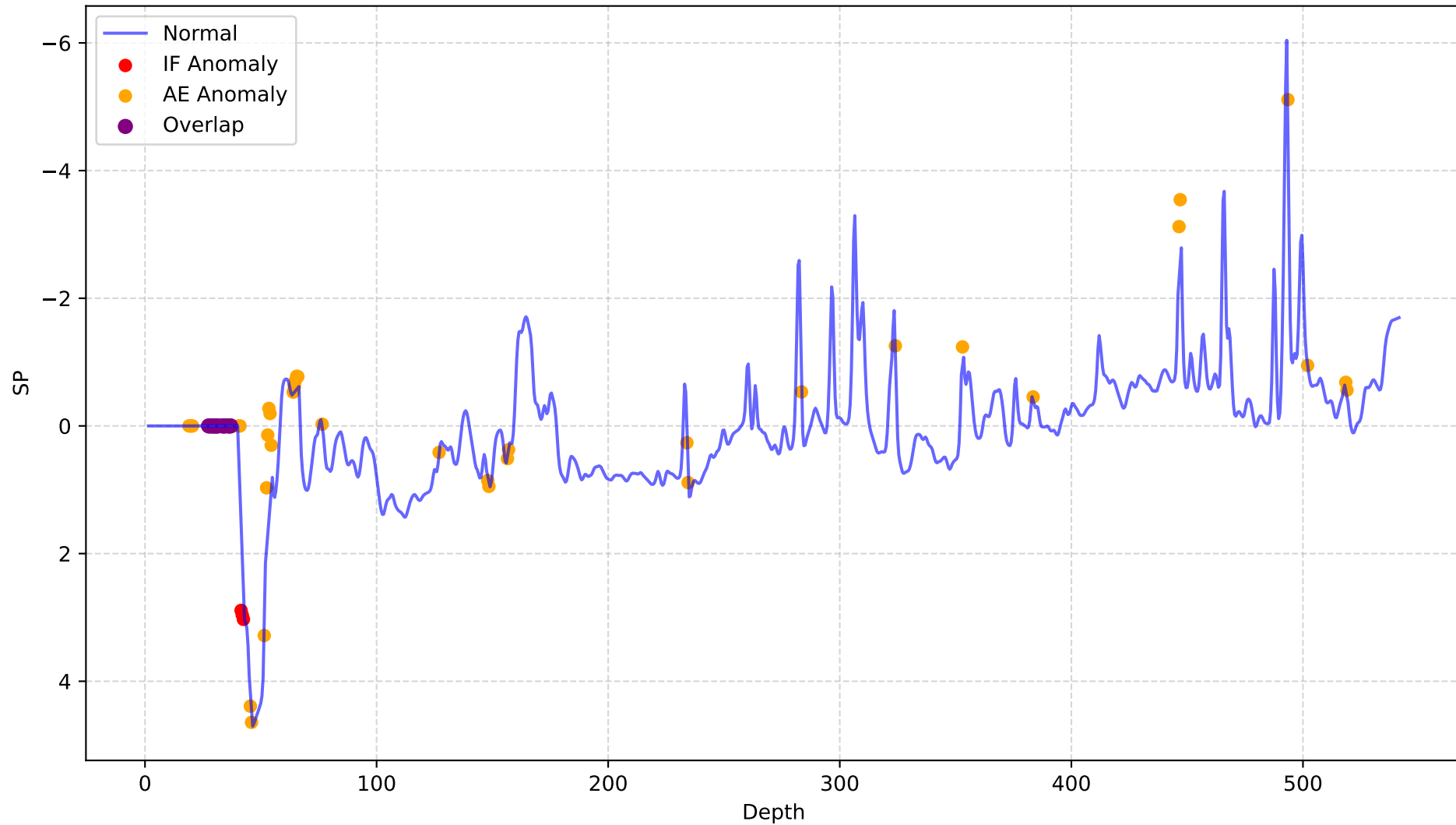
Well_2 - RHOB (Anomaly Detection)



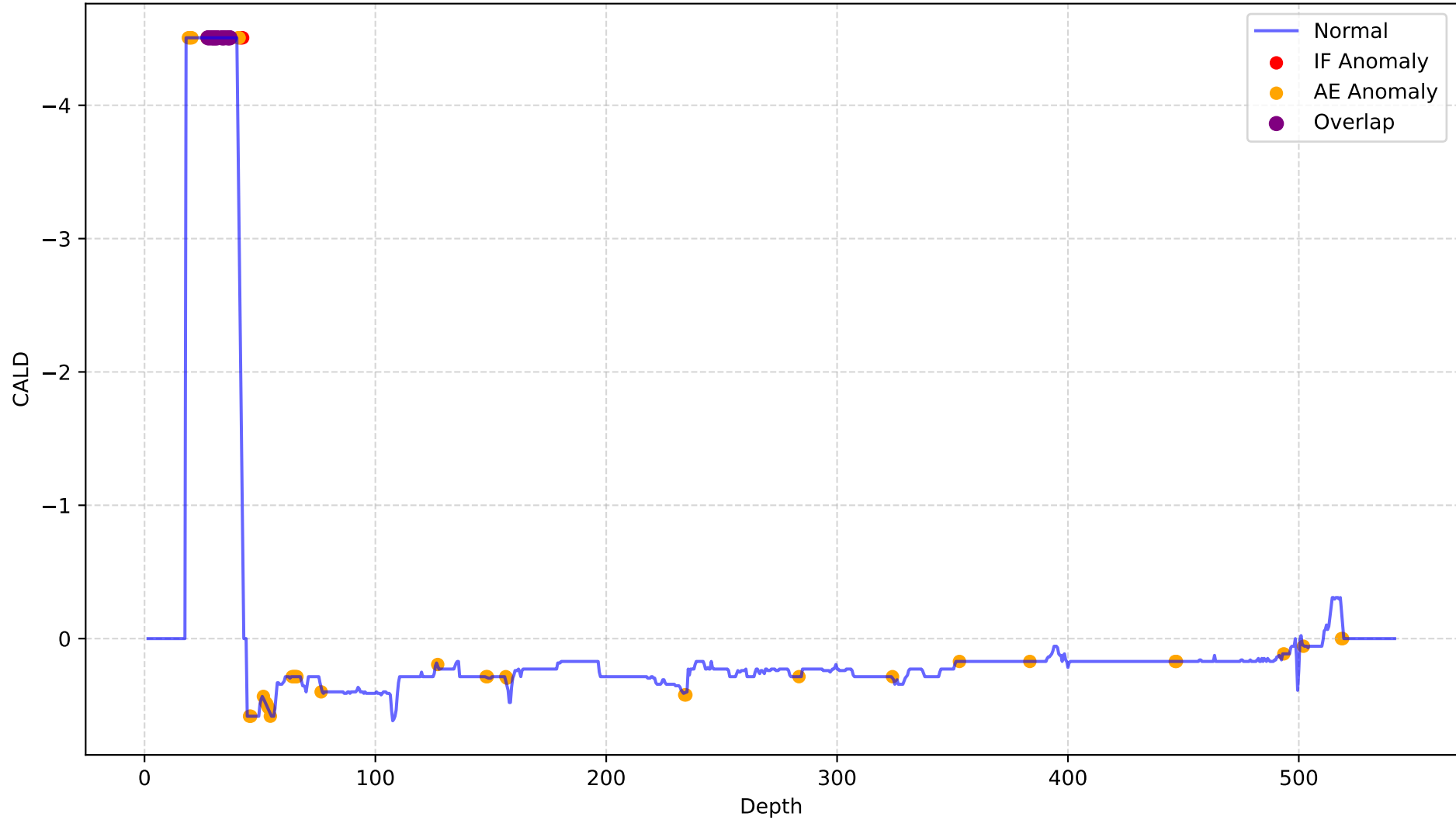
Well_2 - ILD (Anomaly Detection)



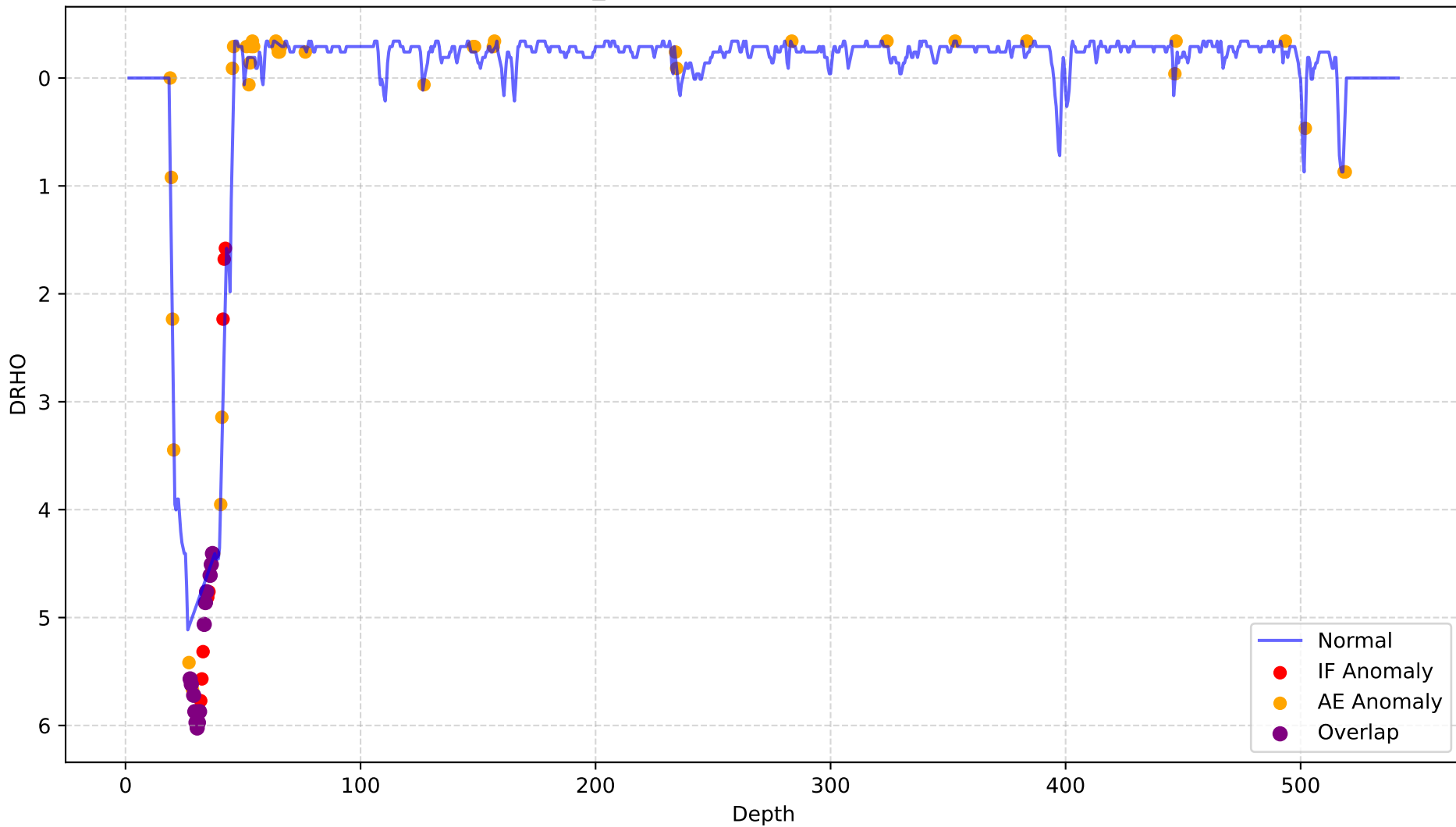
Well_2 - SP (Anomaly Detection)



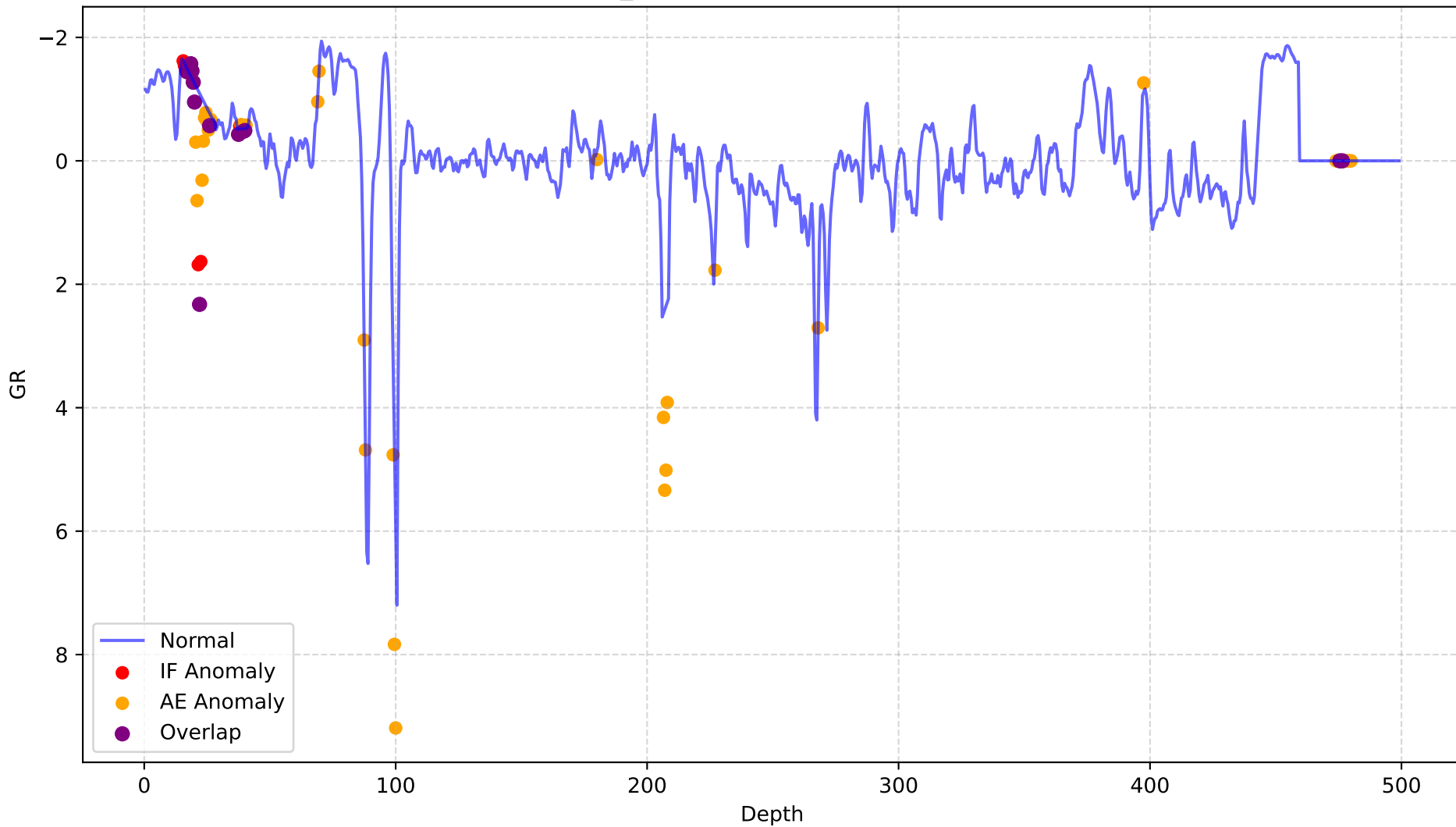
Well_2 - CALD (Anomaly Detection)



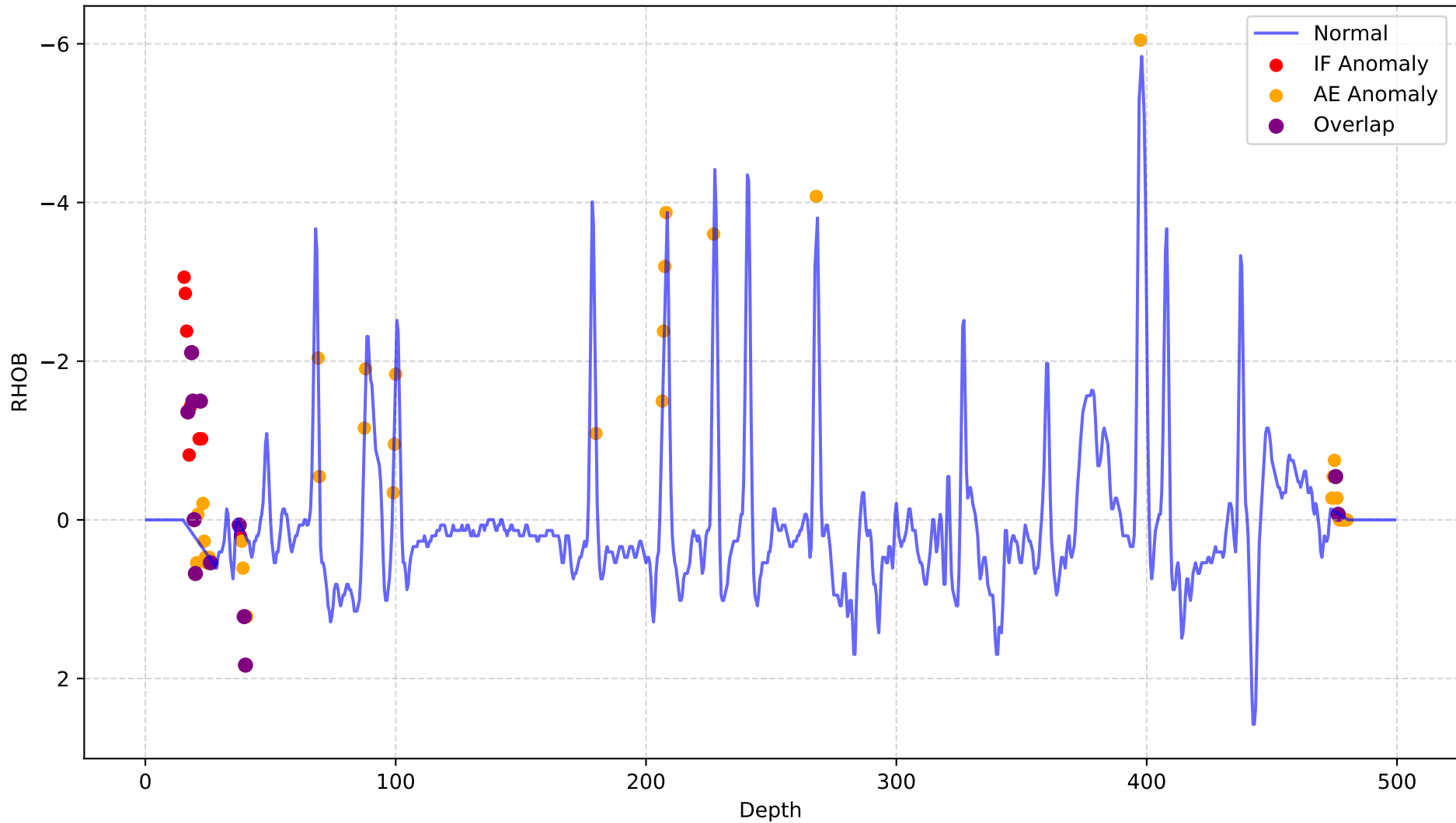
Well_2 - DRHO (Anomaly Detection)



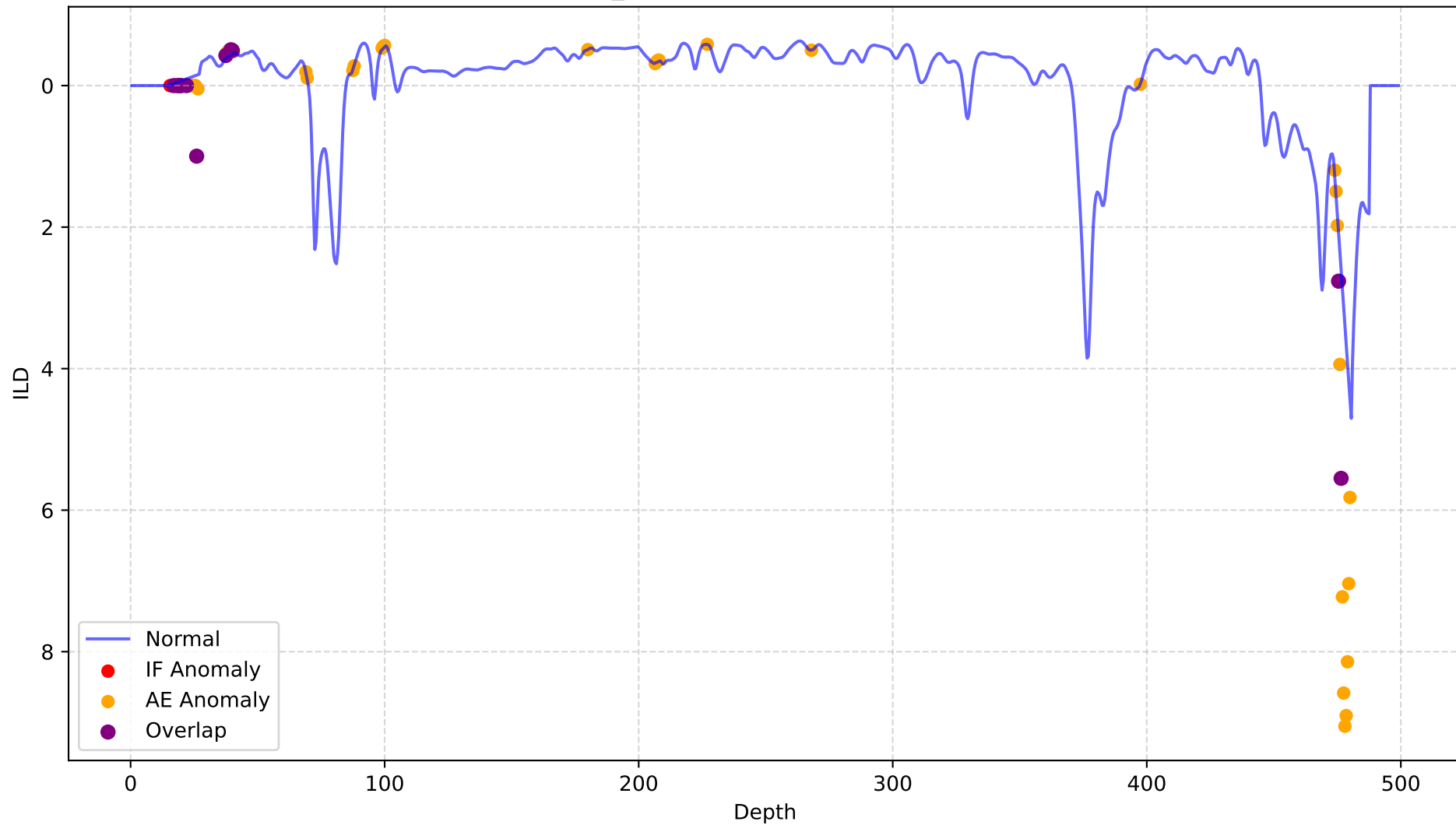
Well_3 - GR (Anomaly Detection)



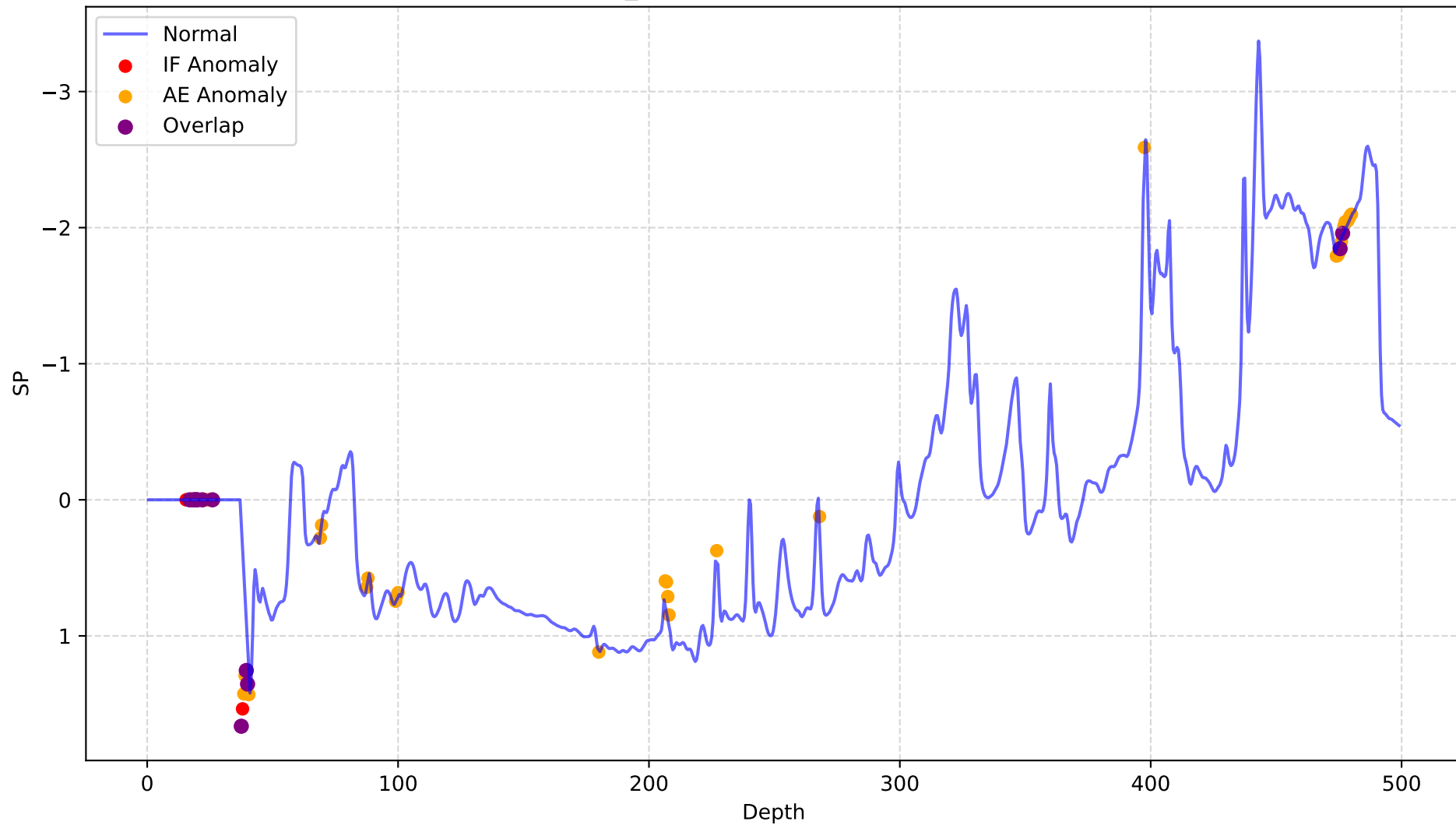
Well_3 - RHOB (Anomaly Detection)



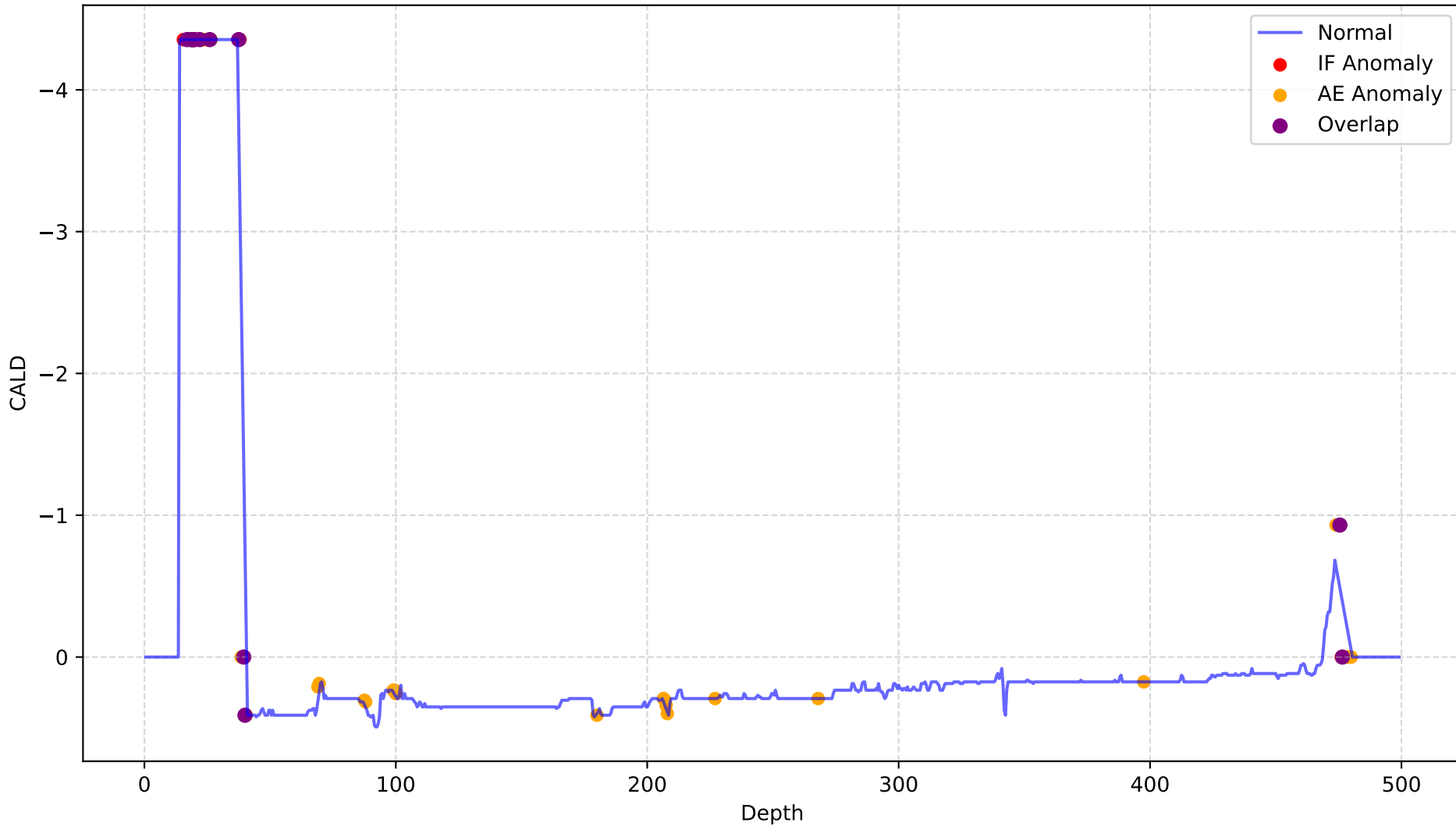
Well_3 - ILD (Anomaly Detection)



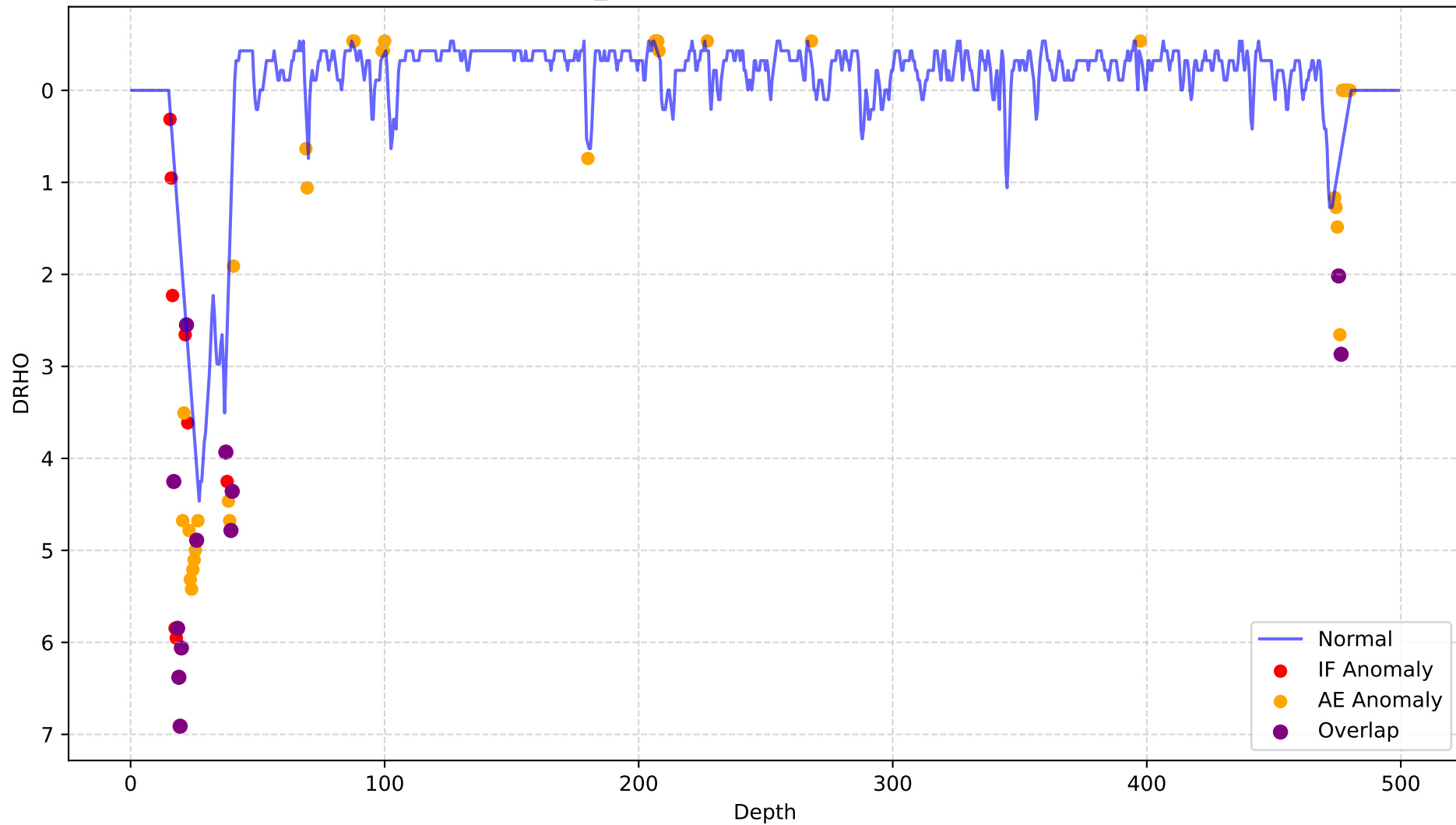
Well_3 - SP (Anomaly Detection)



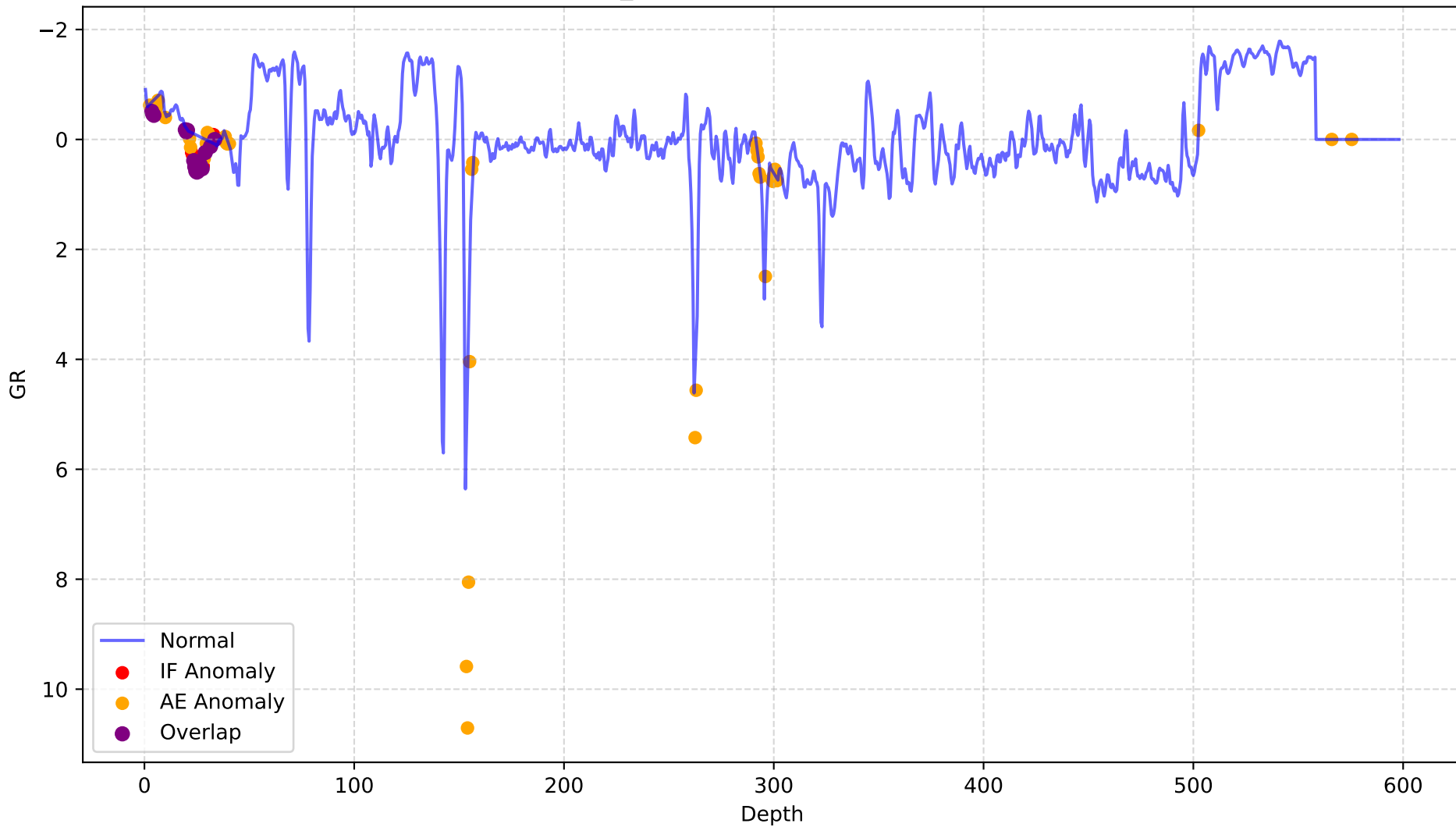
Well_3 - CALD (Anomaly Detection)



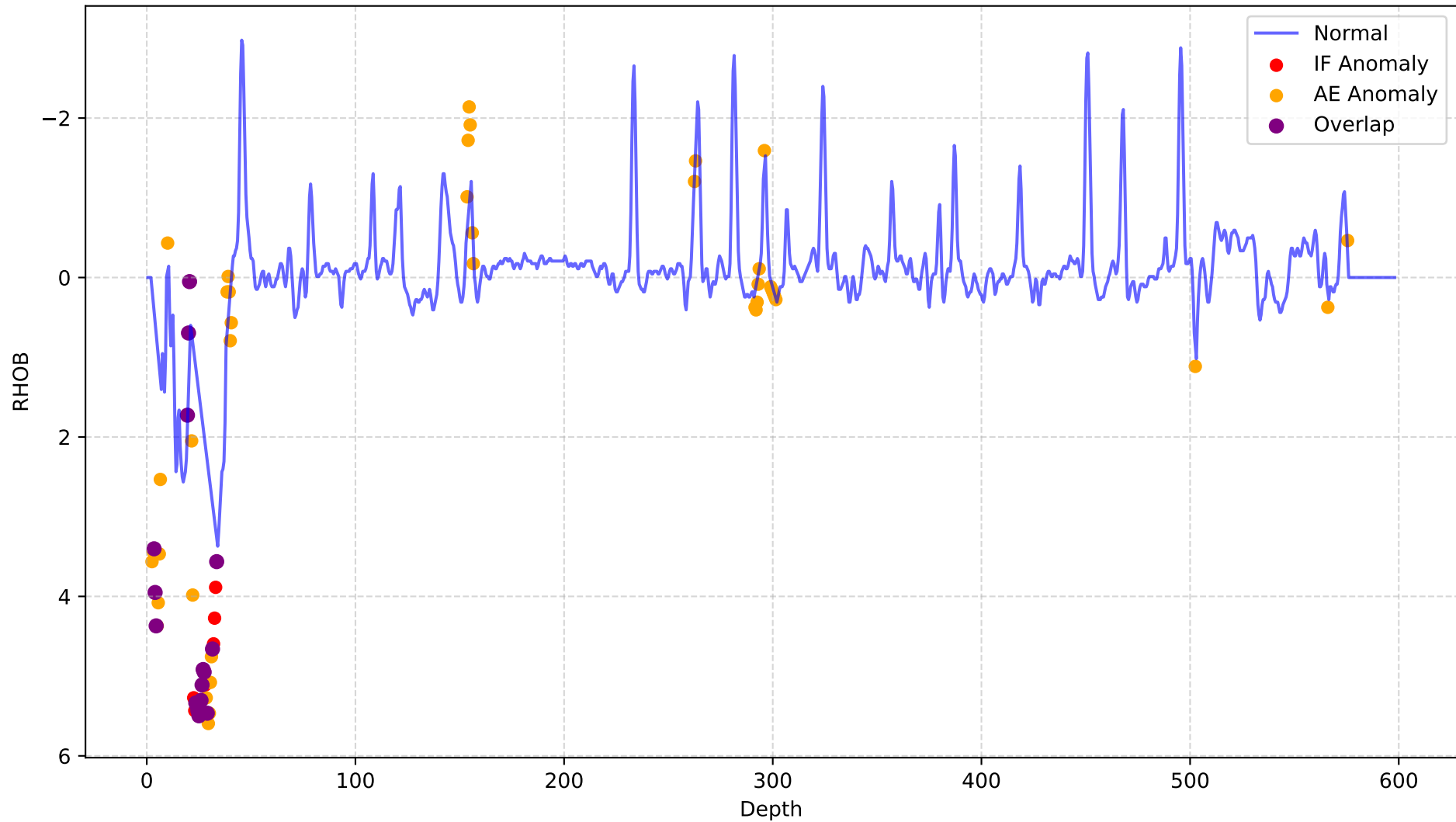
Well_3 - DRHO (Anomaly Detection)



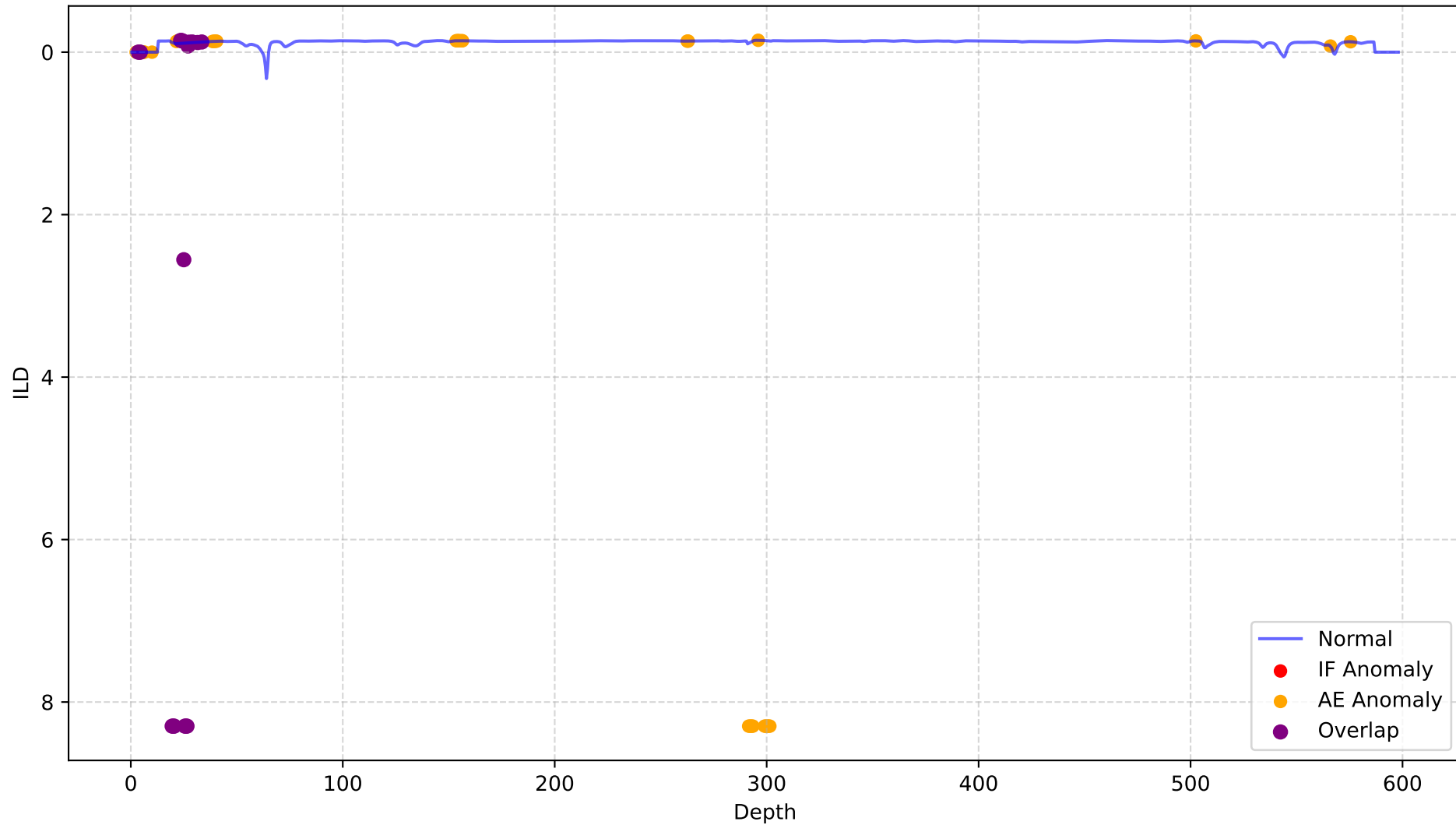
Well_4 - GR (Anomaly Detection)



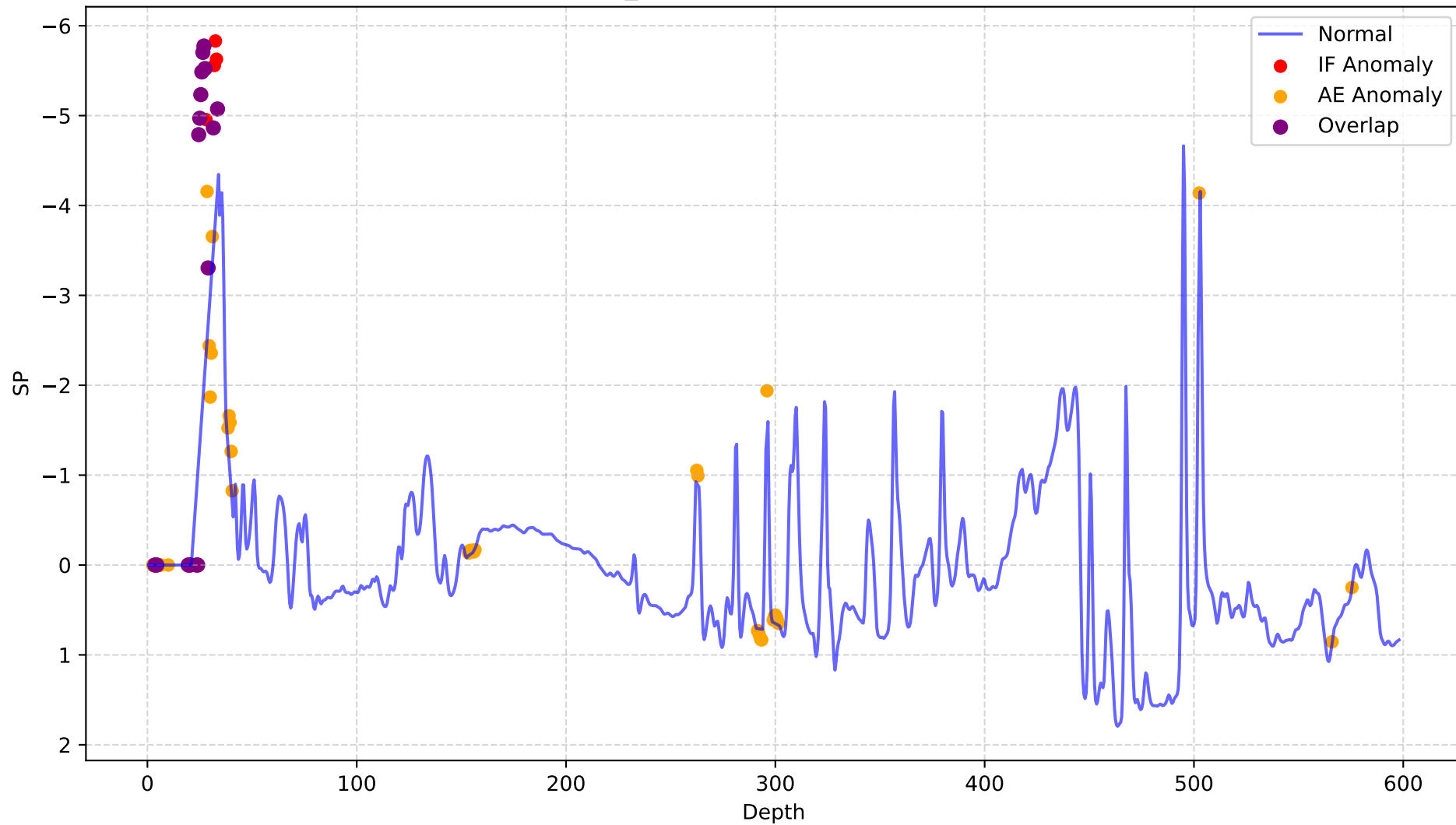
Well_4 - RHOB (Anomaly Detection)



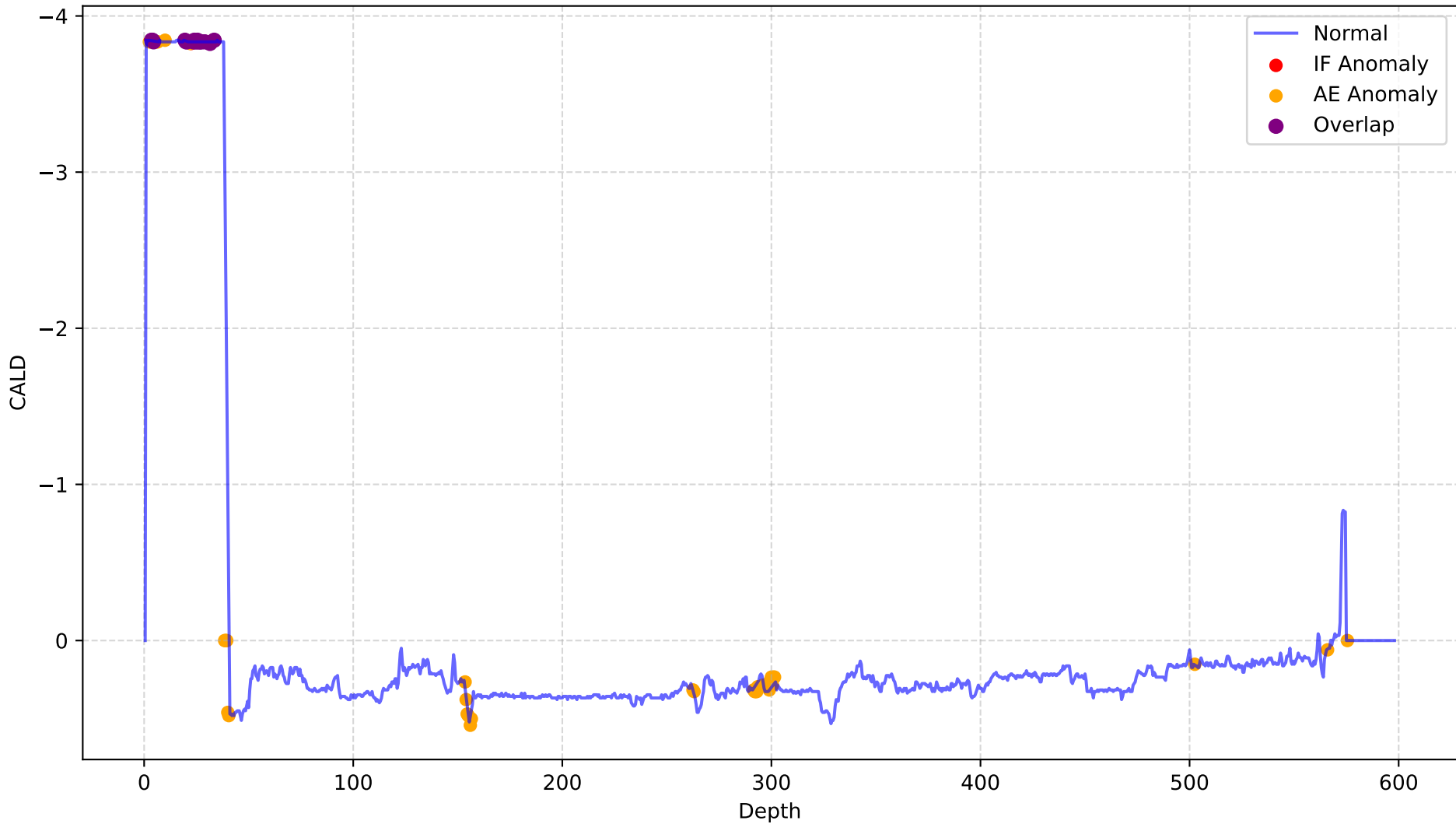
Well_4 - ILD (Anomaly Detection)



Well_4 - SP (Anomaly Detection)



Well_4 - CALD (Anomaly Detection)



Well_4 - DRHO (Anomaly Detection)

