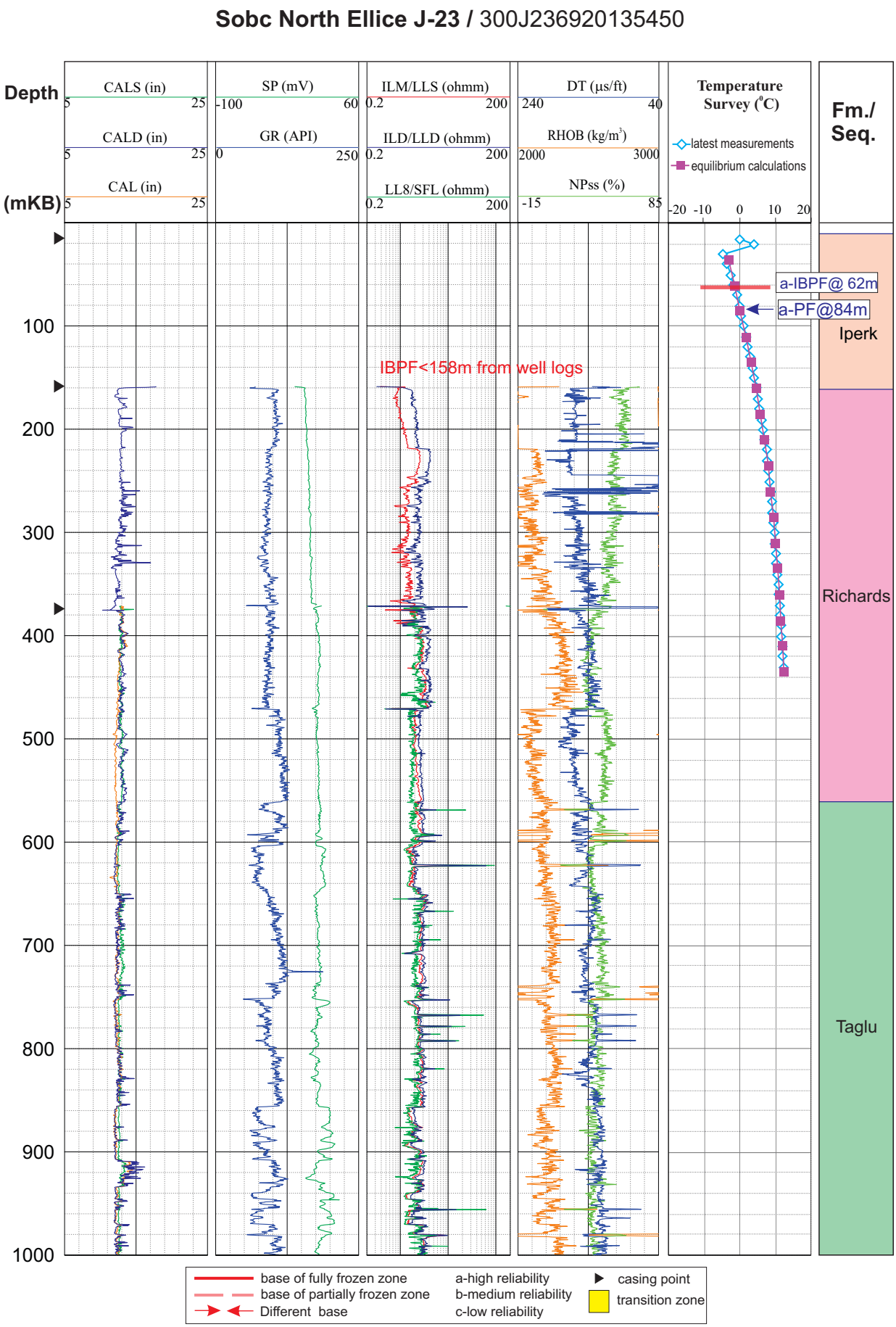

Figure 127. The base of permafrost is determined using temperature survey for the North Ellice J-23 well in the Beaufort-Mackenzie Basin.

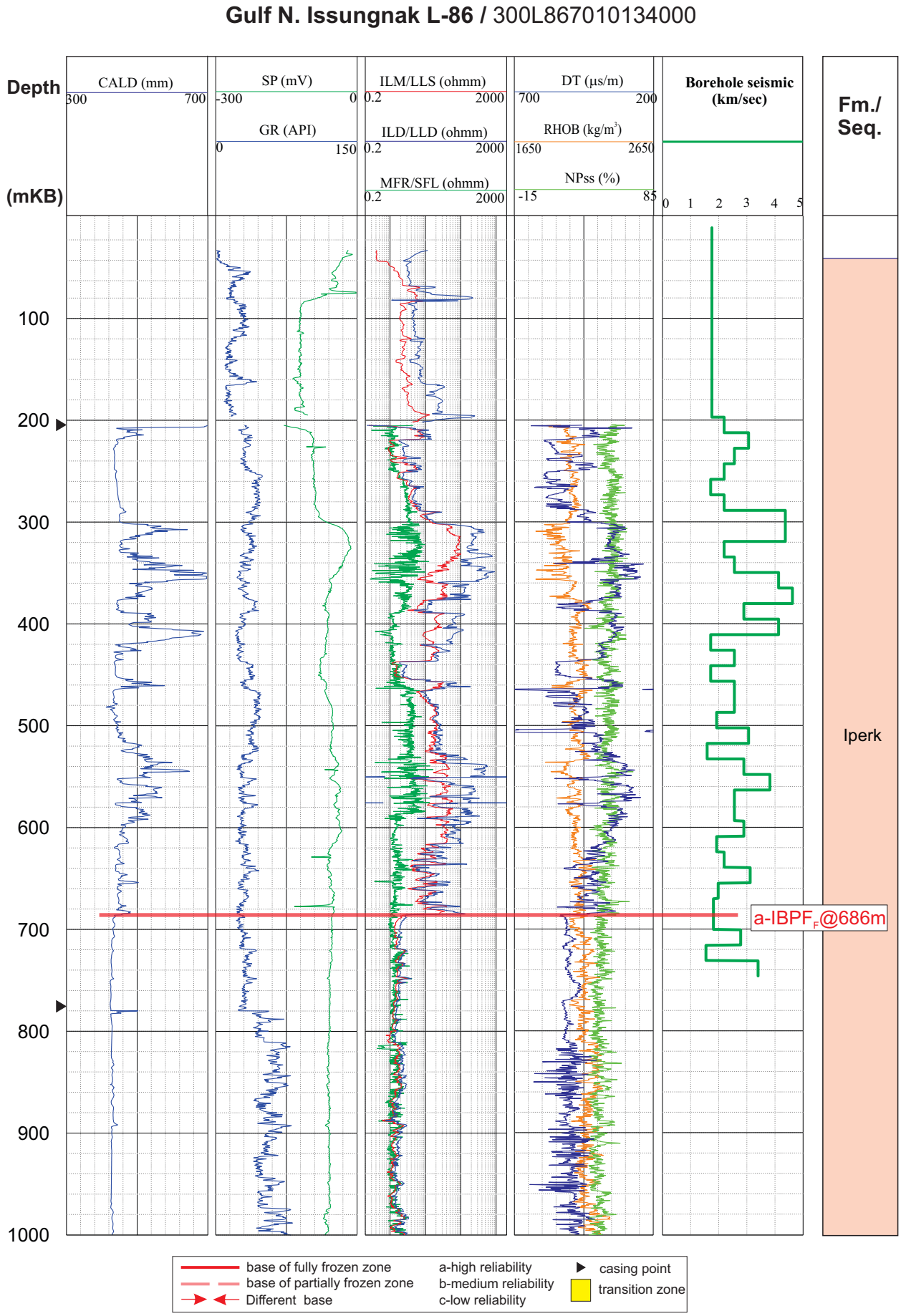

Figure 128. Determination of base of permafrost using geophysical logs and well seismic survey for the North Issungnak L-86 well in the Beaufort-Mackenzie Basin.

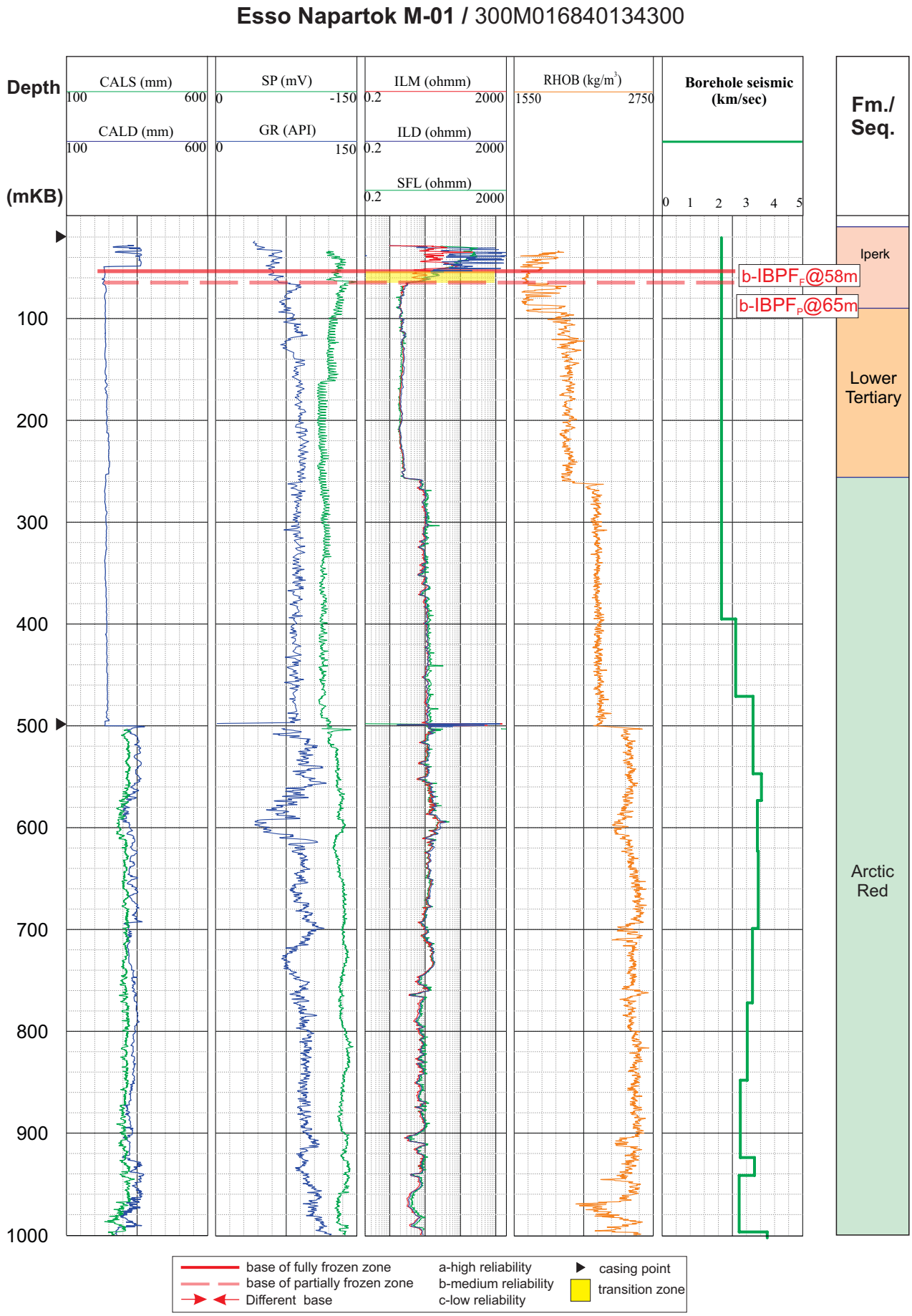

Figure 129. Determination of base of permafrost using geophysical logs and well seismic survey for the Napartok M-01 well in the Beaufort-Mackenzie Basin.

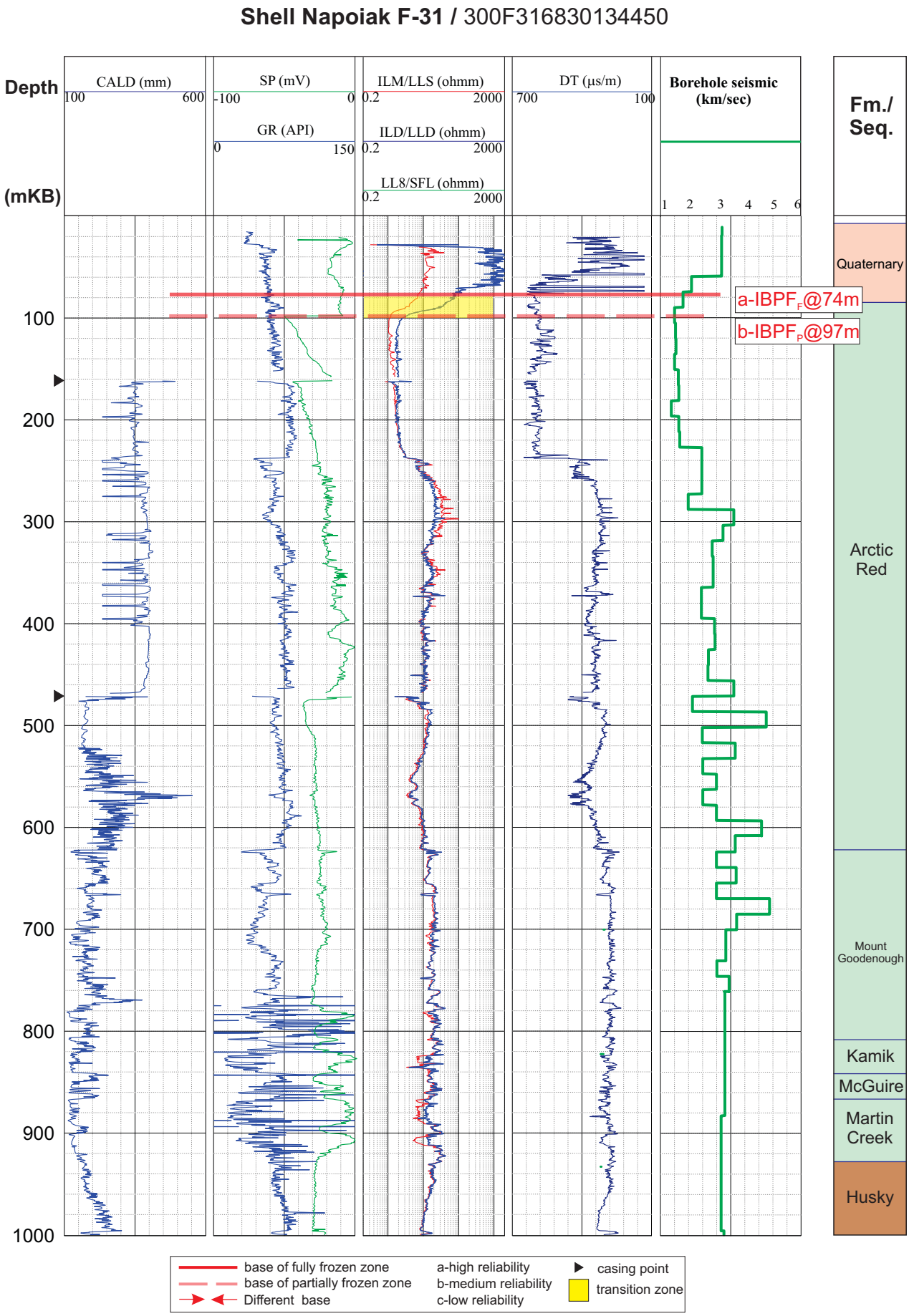

Figure 130. Determination of base of permafrost using geophysical logs and well seismic survey for the Napoiak F-31 well in the Beaufort-Mackenzie Basin.

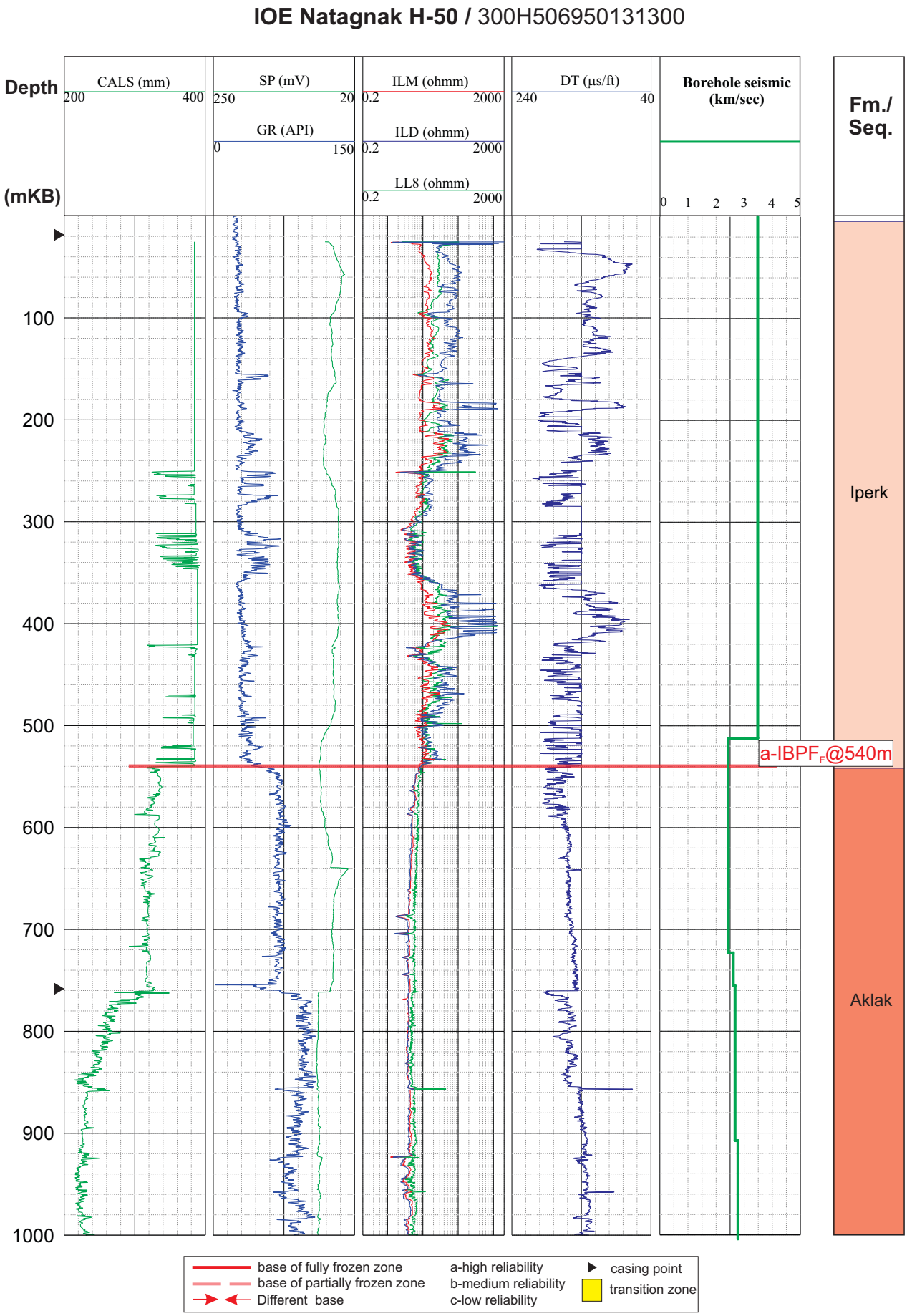

Figure 131. Determination of base of permafrost using geophysical logs and well seismic survey for the Natagnak H-50 well in the Beaufort-Mackenzie Basin.

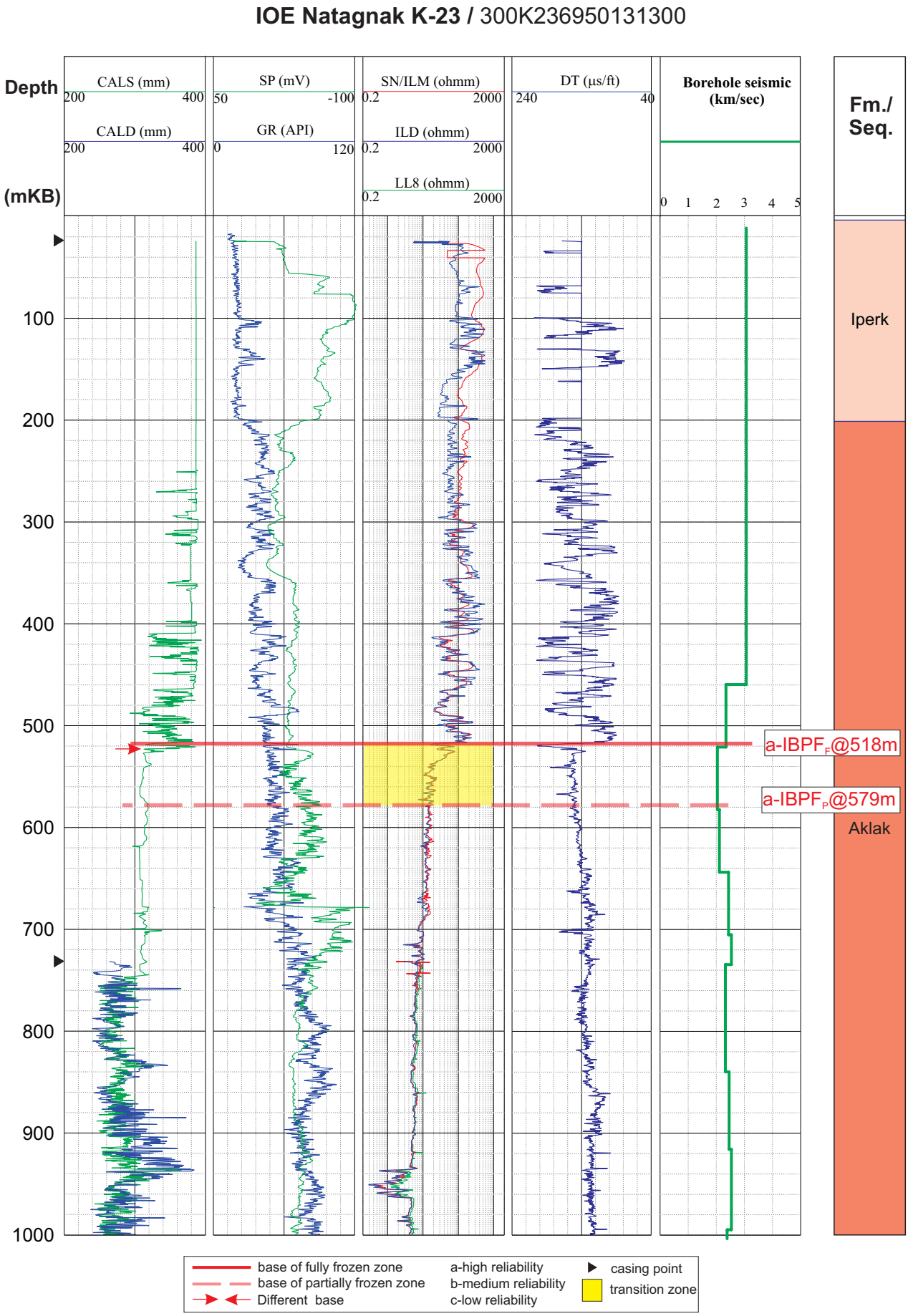

Figure 132. Determination of base of permafrost using geophysical logs and well seismic survey for the Natagnak K-23 well in the Beaufort-Mackenzie Basin.

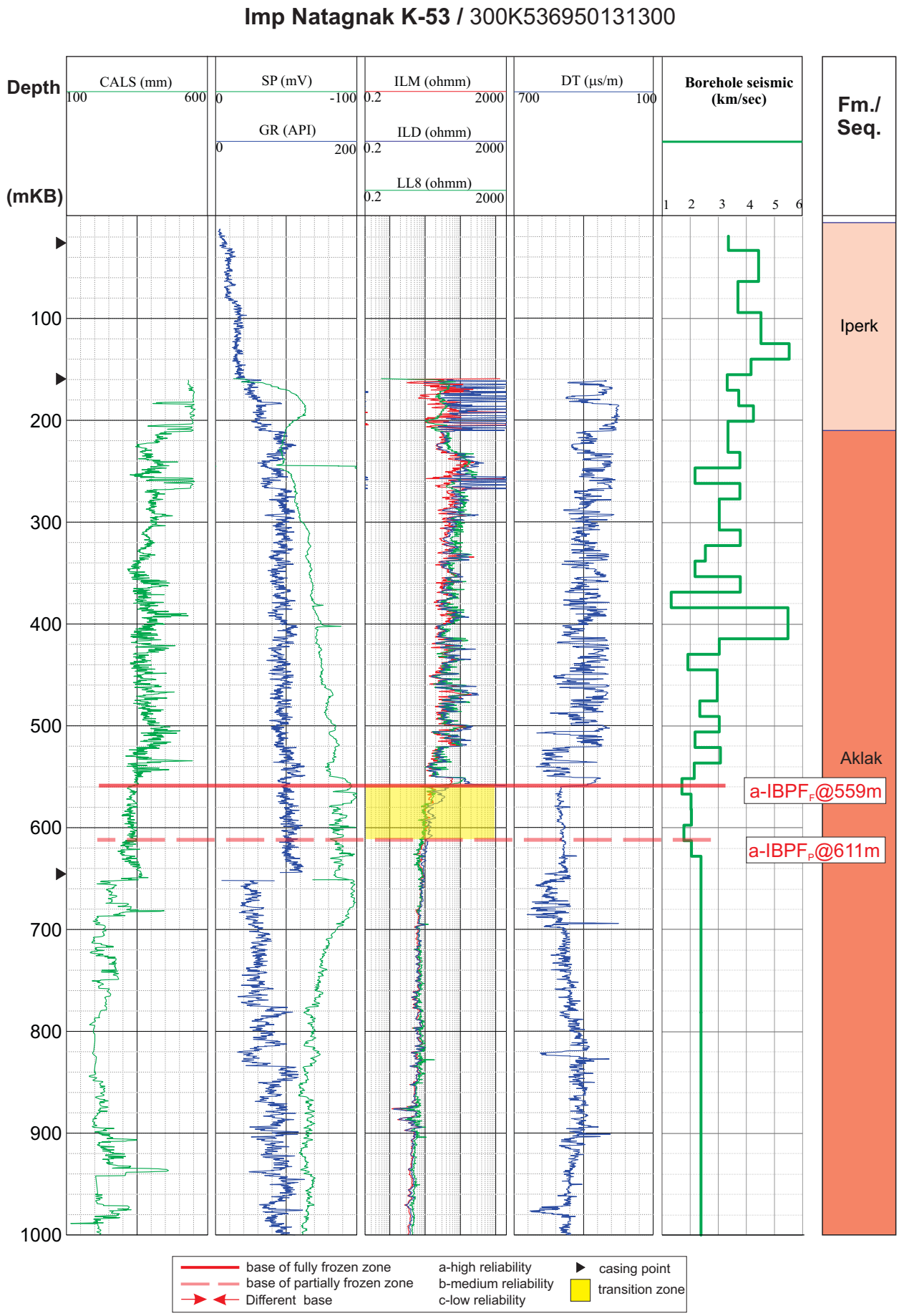

Figure 133. Determination of base of permafrost using geophysical logs and well seismic survey for the Natagnak K-53 well in the Beaufort-Mackenzie Basin.

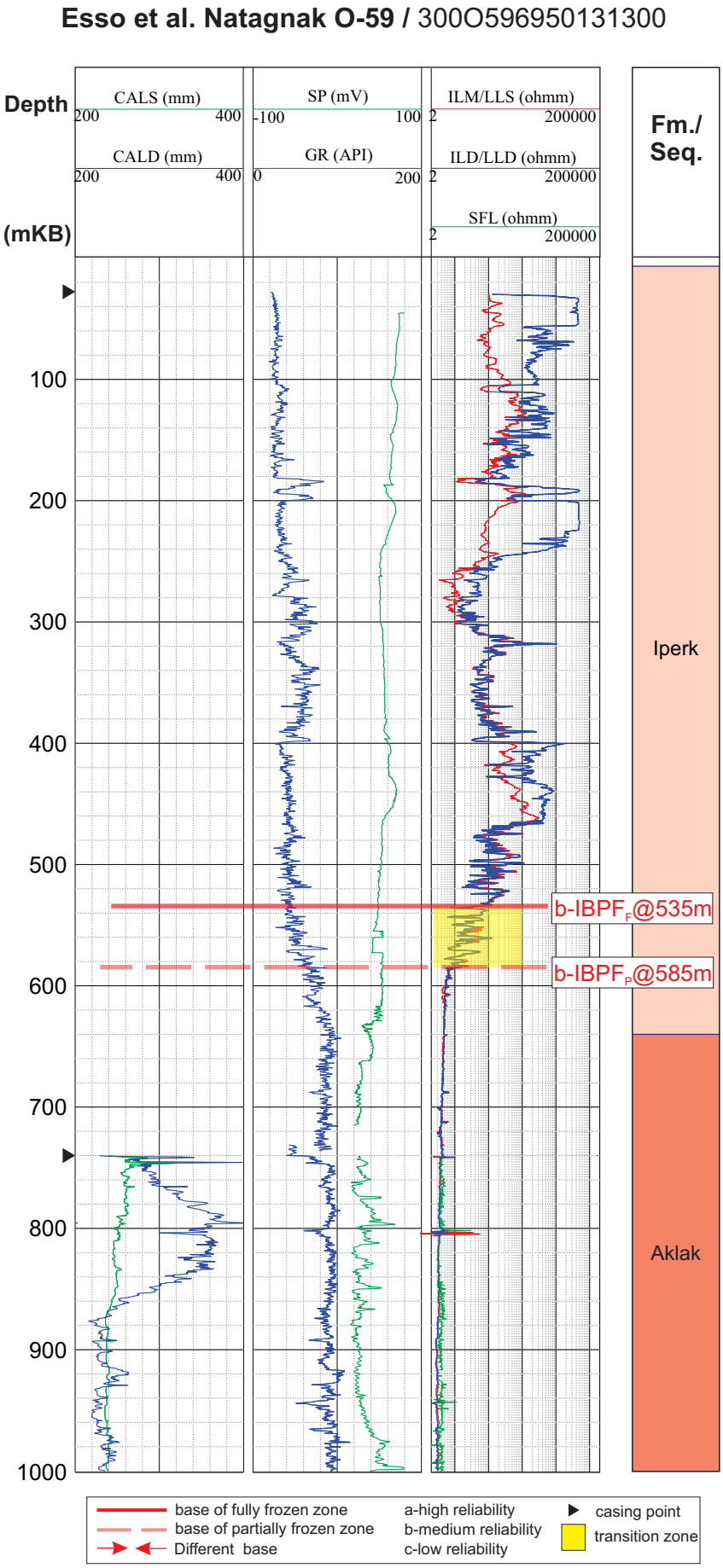

Figure 134. Determination of base of permafrost using geophysical logs for the Natagnak O-59 well in the Beaufort-Mackenzie Basin.

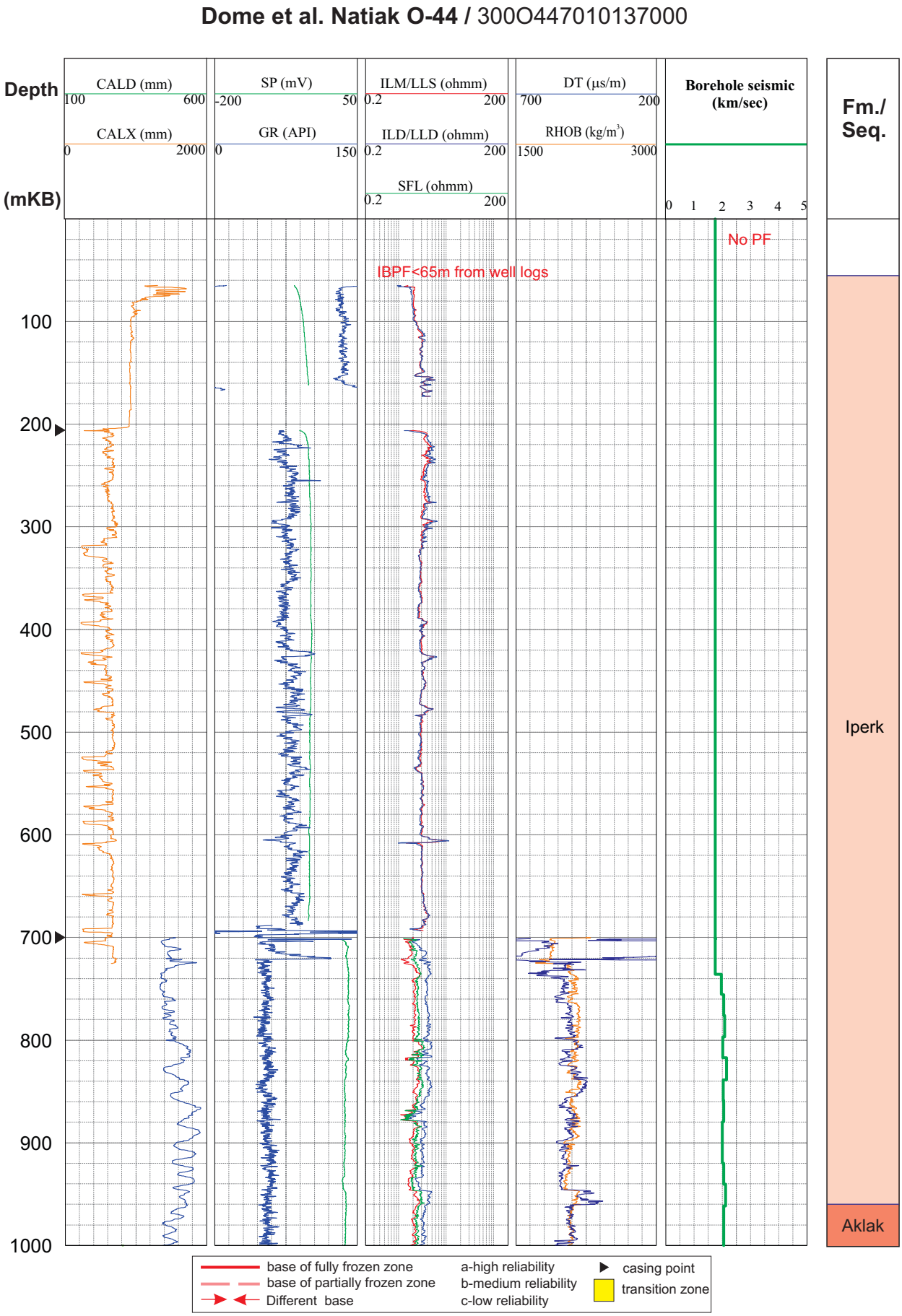

Figure 135. Geophysical well logs and well seismic survey indicate no permafrost for the Natiak O-44 well in the Beaufort-Mackenzie Basin.

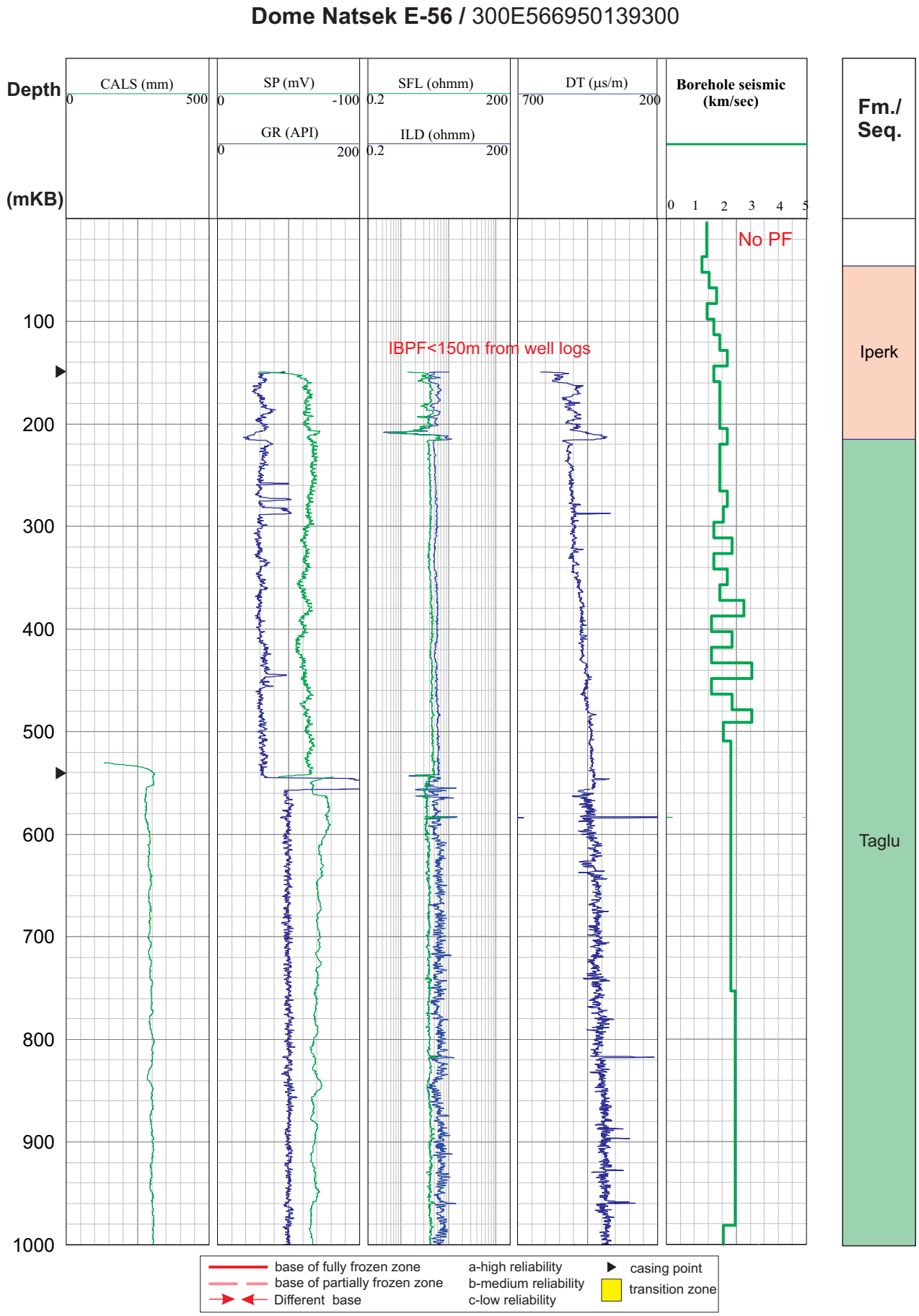

Figure 136. Geophysical logs and well seismic survey indicate no permafrost for the Natsek E-56 well in the Beaufort-Mackenzie Basin.

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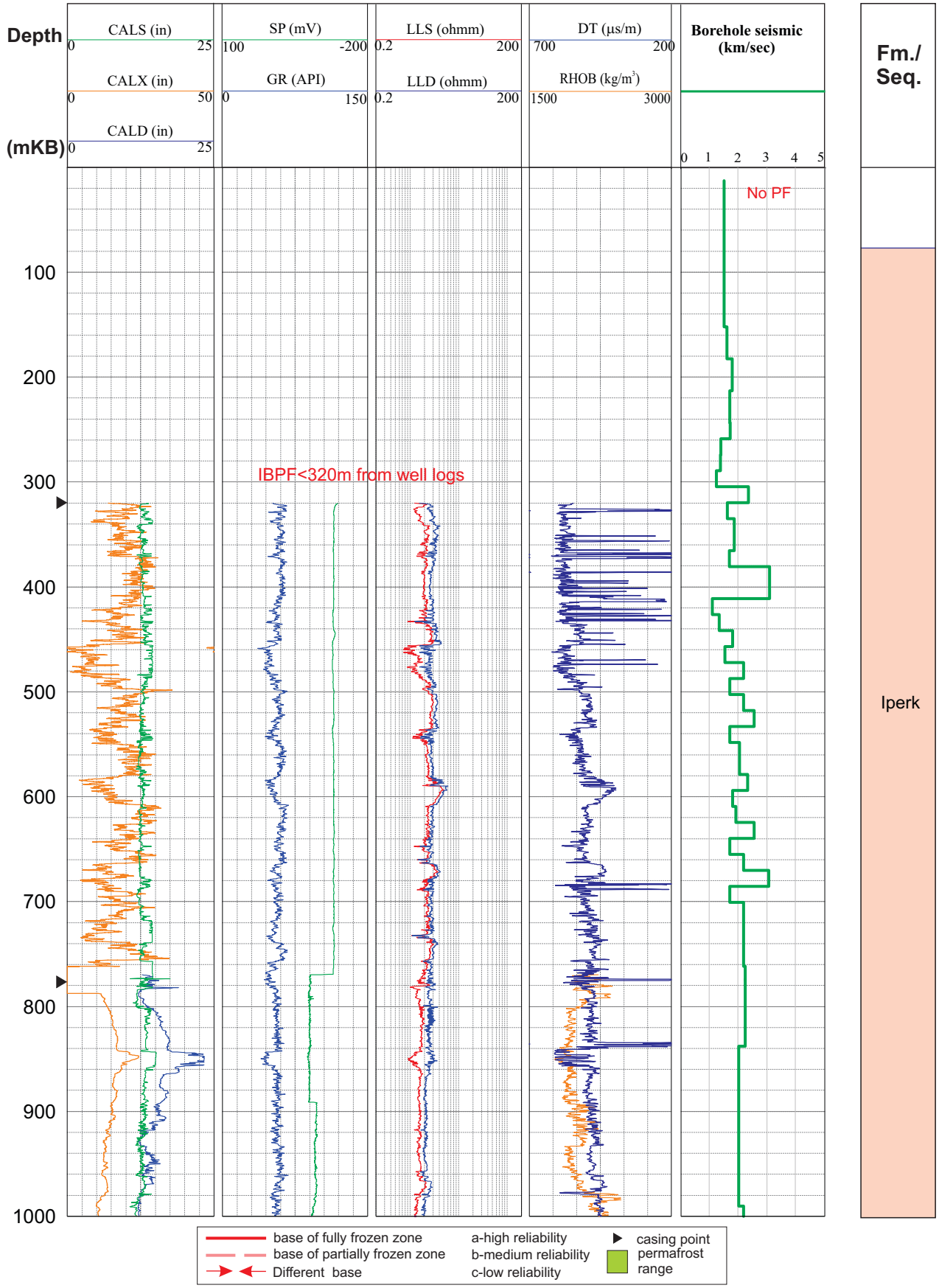

Figure 137. Geophysical logs and well seismic survey indicate no permafrost for the Nektoralik K-59 well in the Beaufort-Mackenzie Basin.

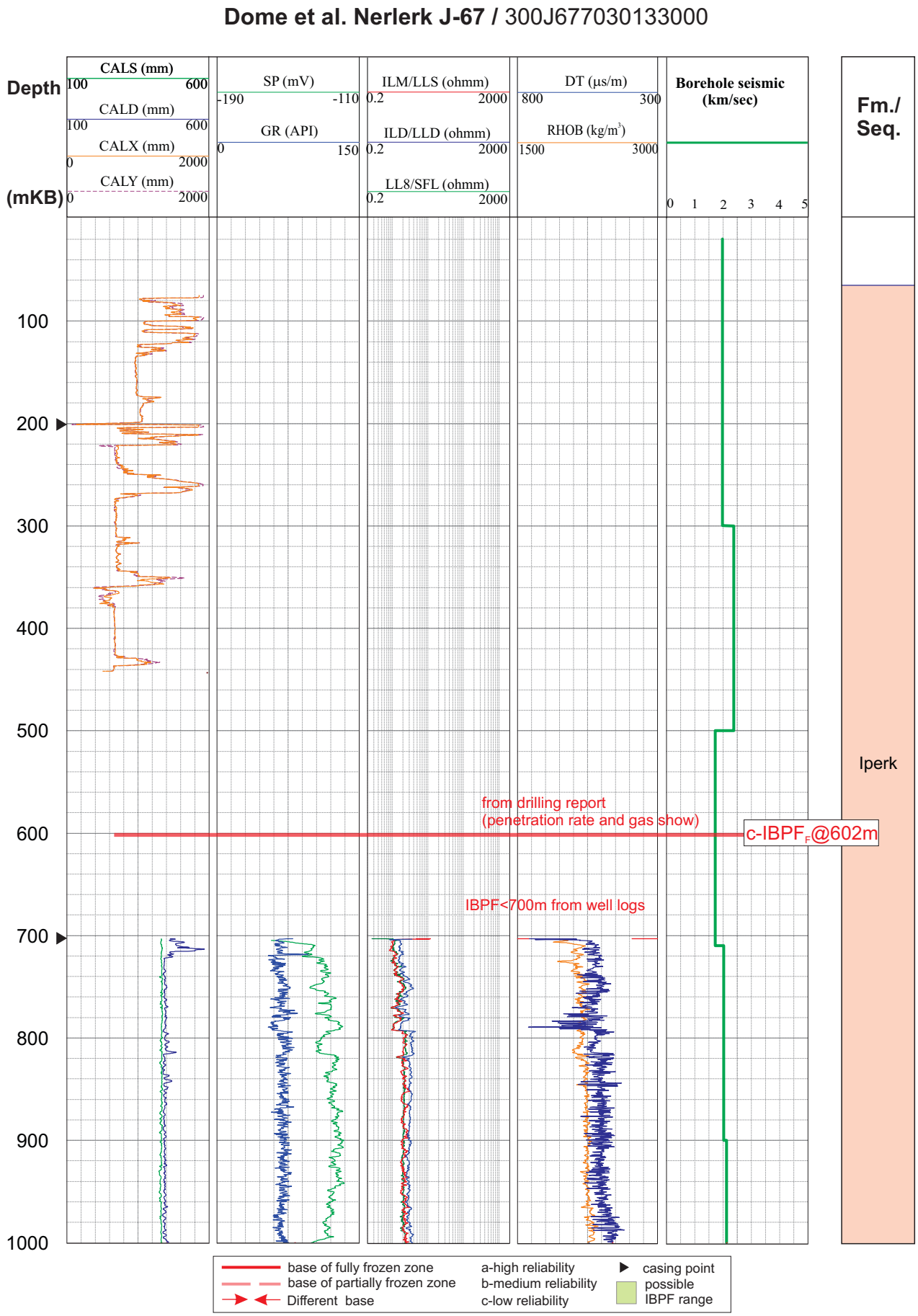

Figure 138. The base of permafrost is mainly estimated from penetration rate for the Nerlerk J-67 well. Drilling report also indicates that gas show occurs from 650 m to deeper depths, which is related to gas hydrates.

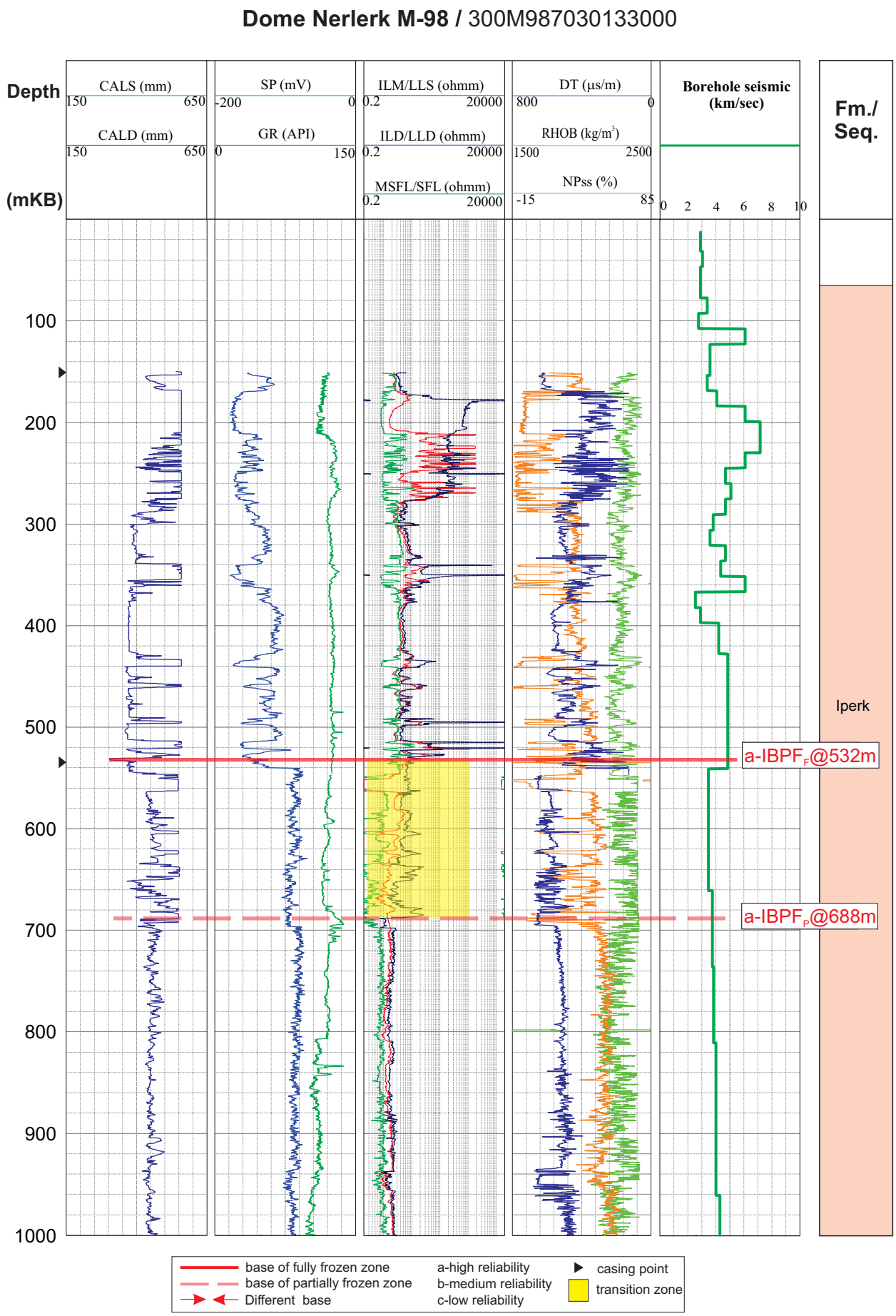

Figure 139. Determination of base of permafrost using geophysical logs and well seismic survey for the Nerlerk M-98 well in the Beaufort-Mackenzie Basin.

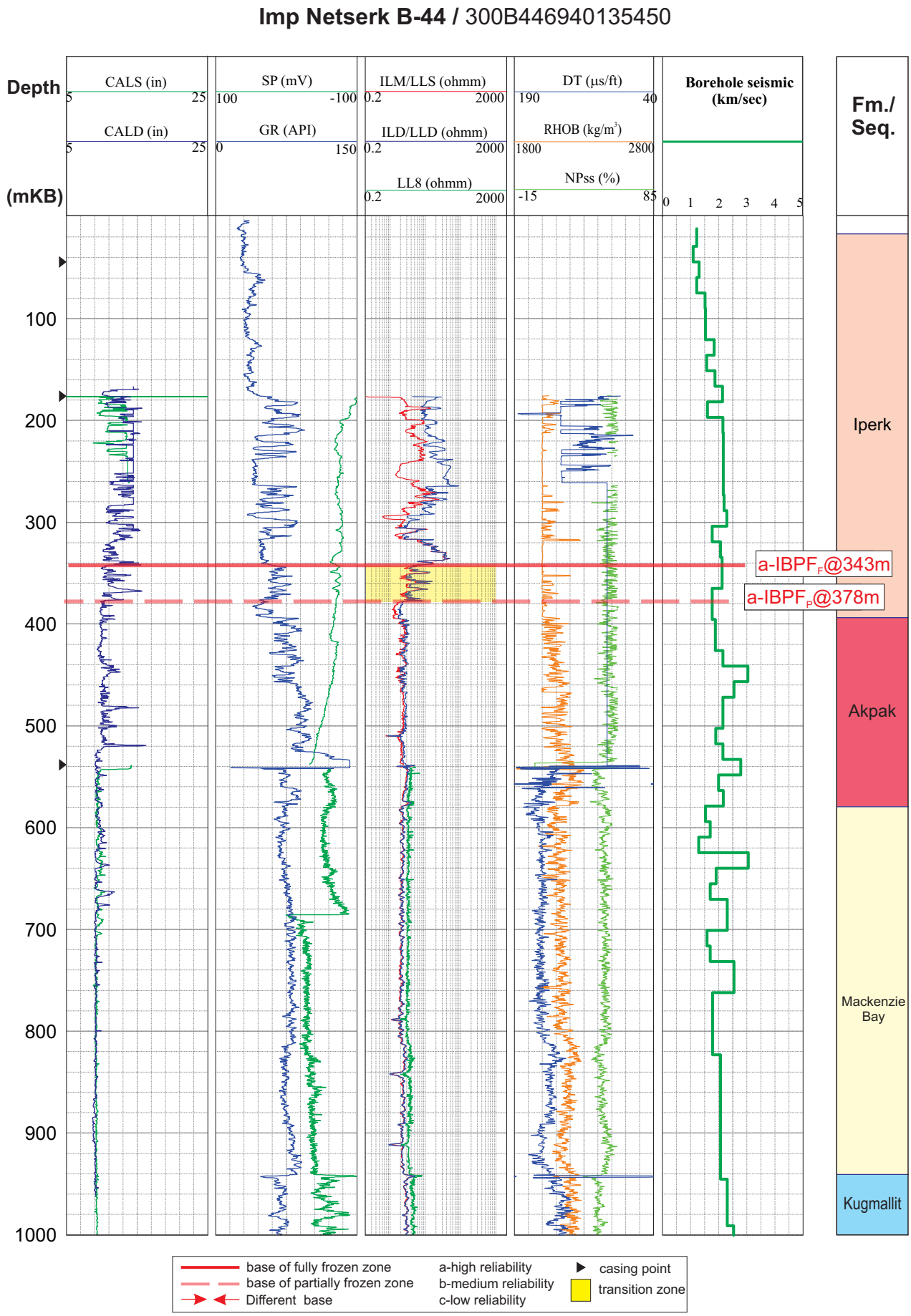

Figure 140. Determination of base of permafrost using geophysical logs and well seismic survey for the Netserk B-44 well in the Beaufort-Mackenzie Basin.

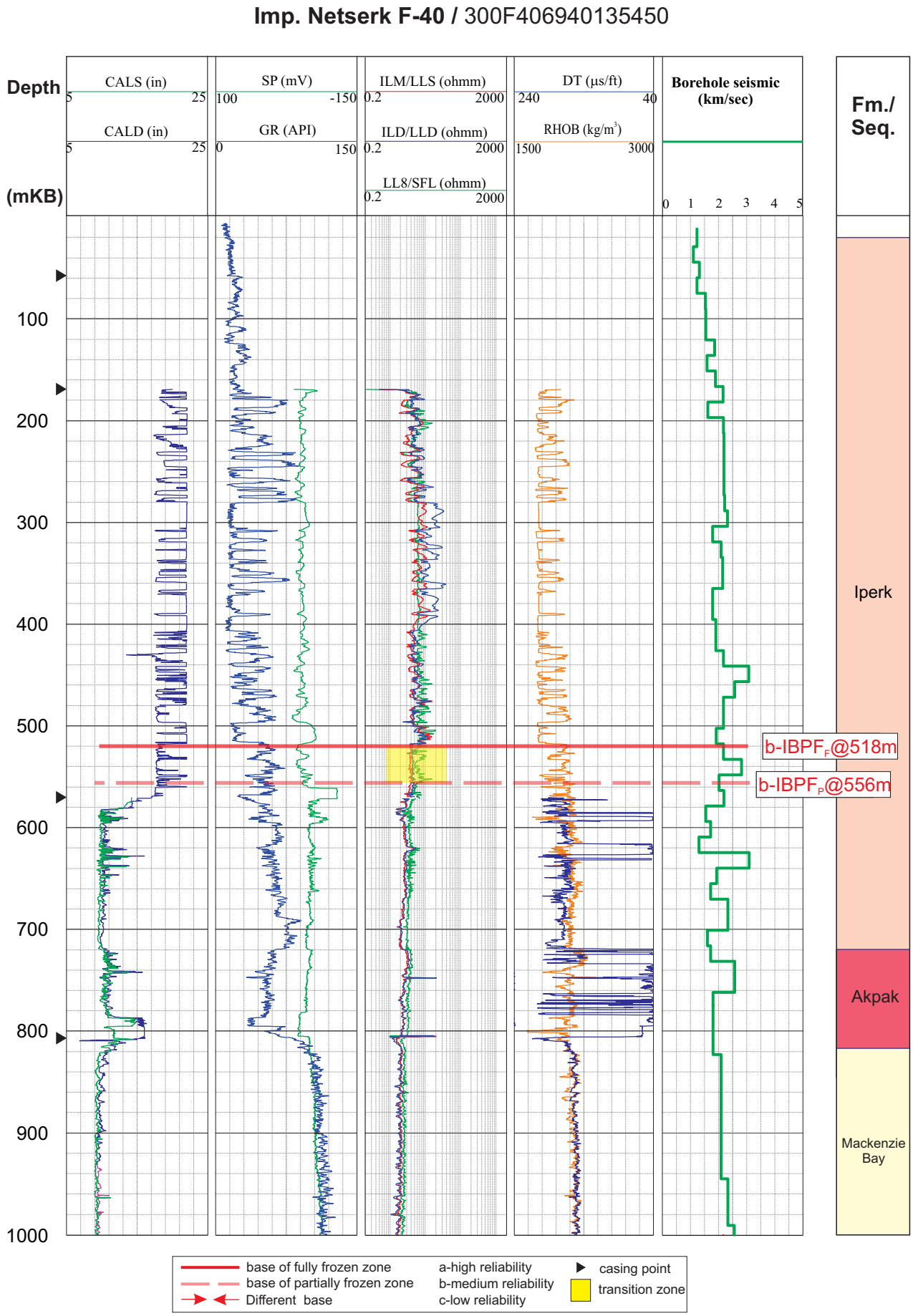

Figure 141. Determination of base of permafrost using geophysical logs and well seismic survey for the Netserk F-40 well in the Beaufort-Mackenzie Basin.

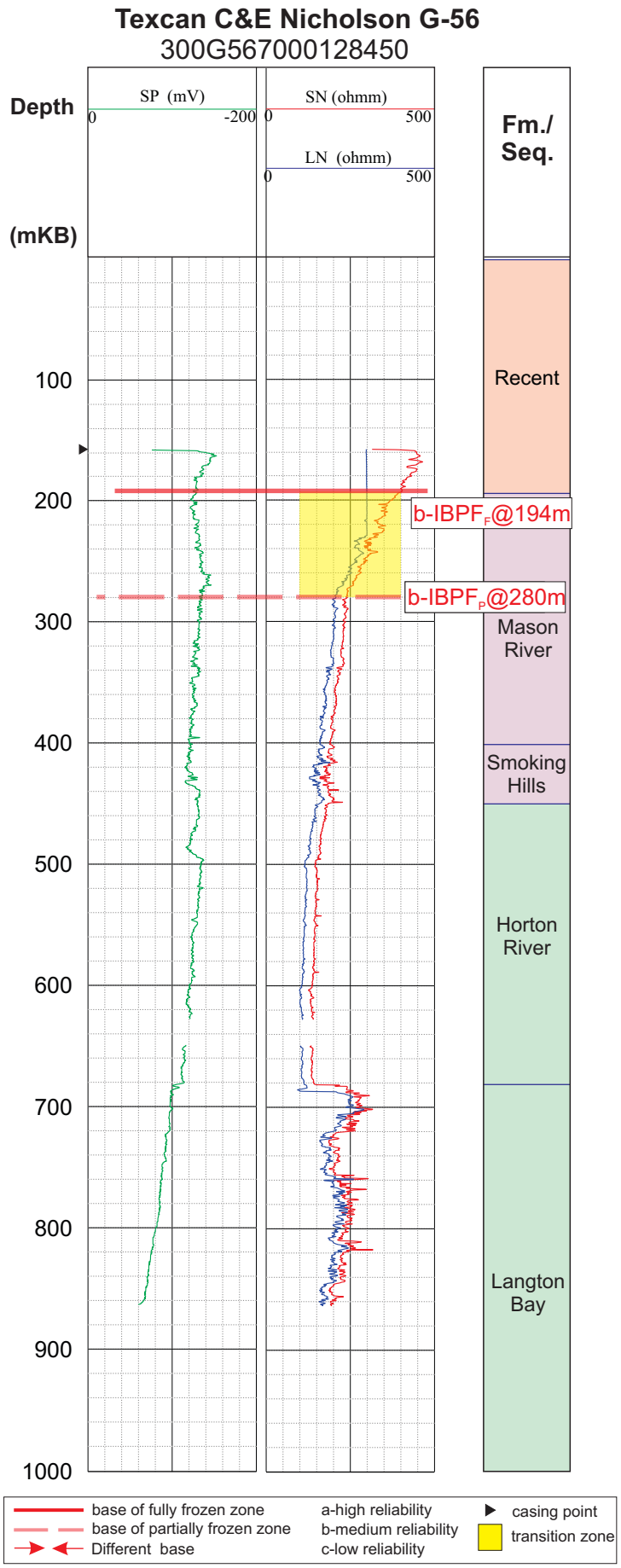

Figure 142. Determination of base of permafrost using geophysical logs for the Nicholson G-56 well in the Beaufort-Mackenzie Basin.

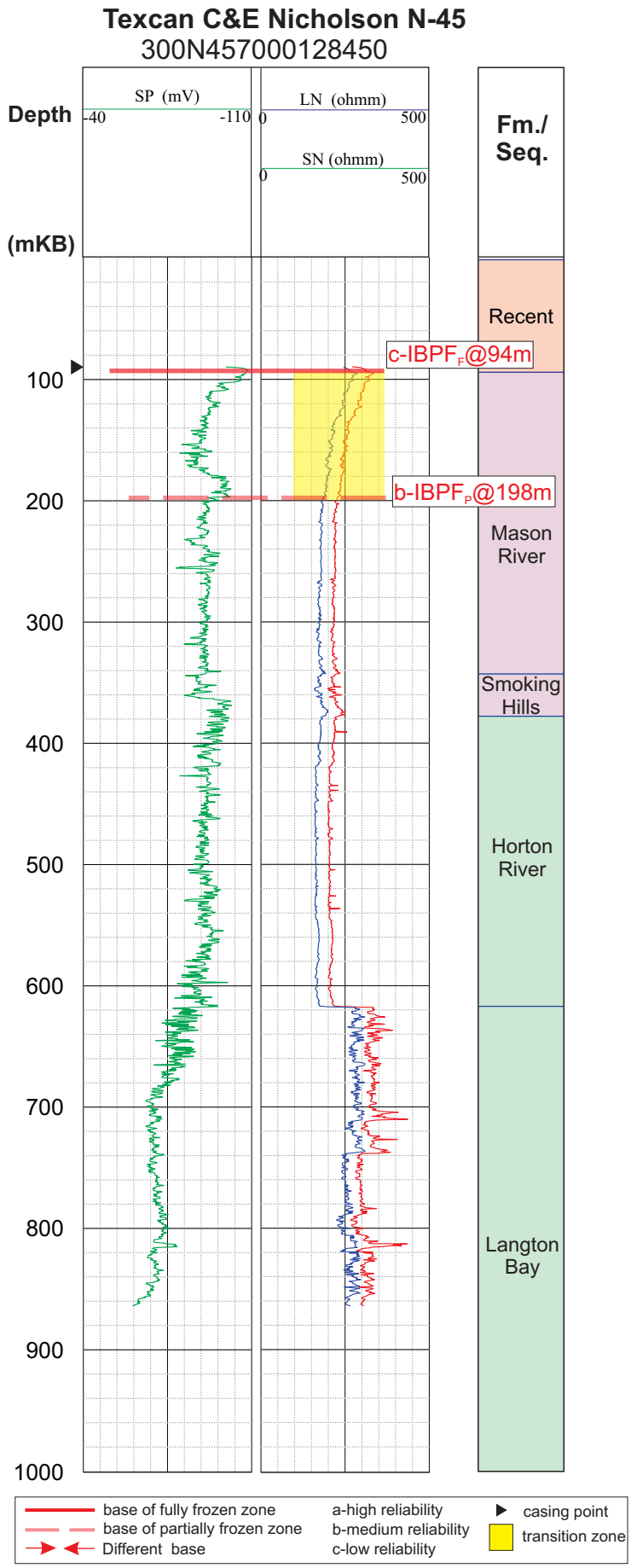

Figure 143. Determination of base of permafrost using geophysical logs for the Nicholson N-45 well in the Beaufort-Mackenzie Basin.

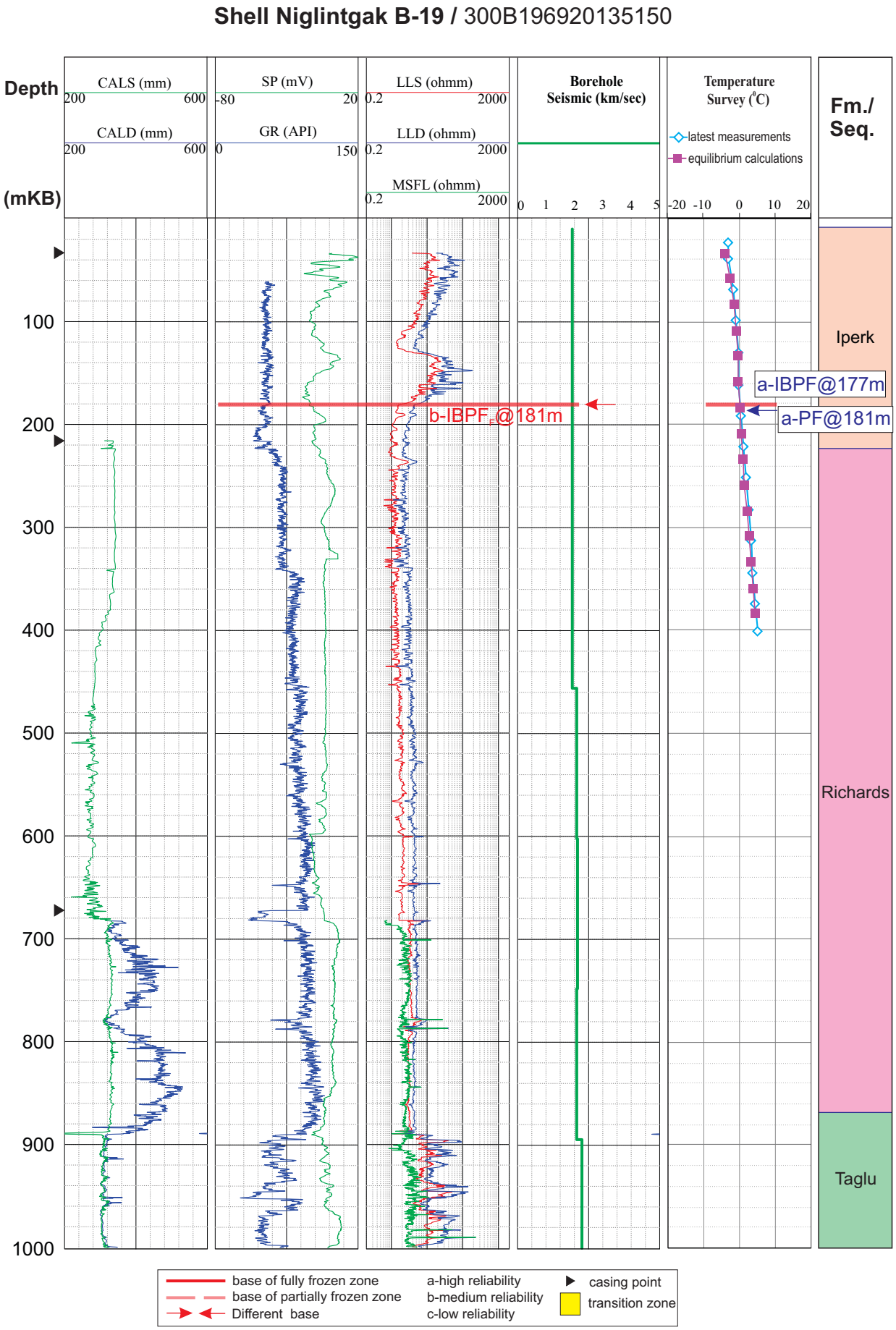

Figure 144. Determination of base of permafrost using temperature survey, well seismic survey and geophysical logs for the Niglintgak B-19 well in the Beaufort-Mackenzie Basin.

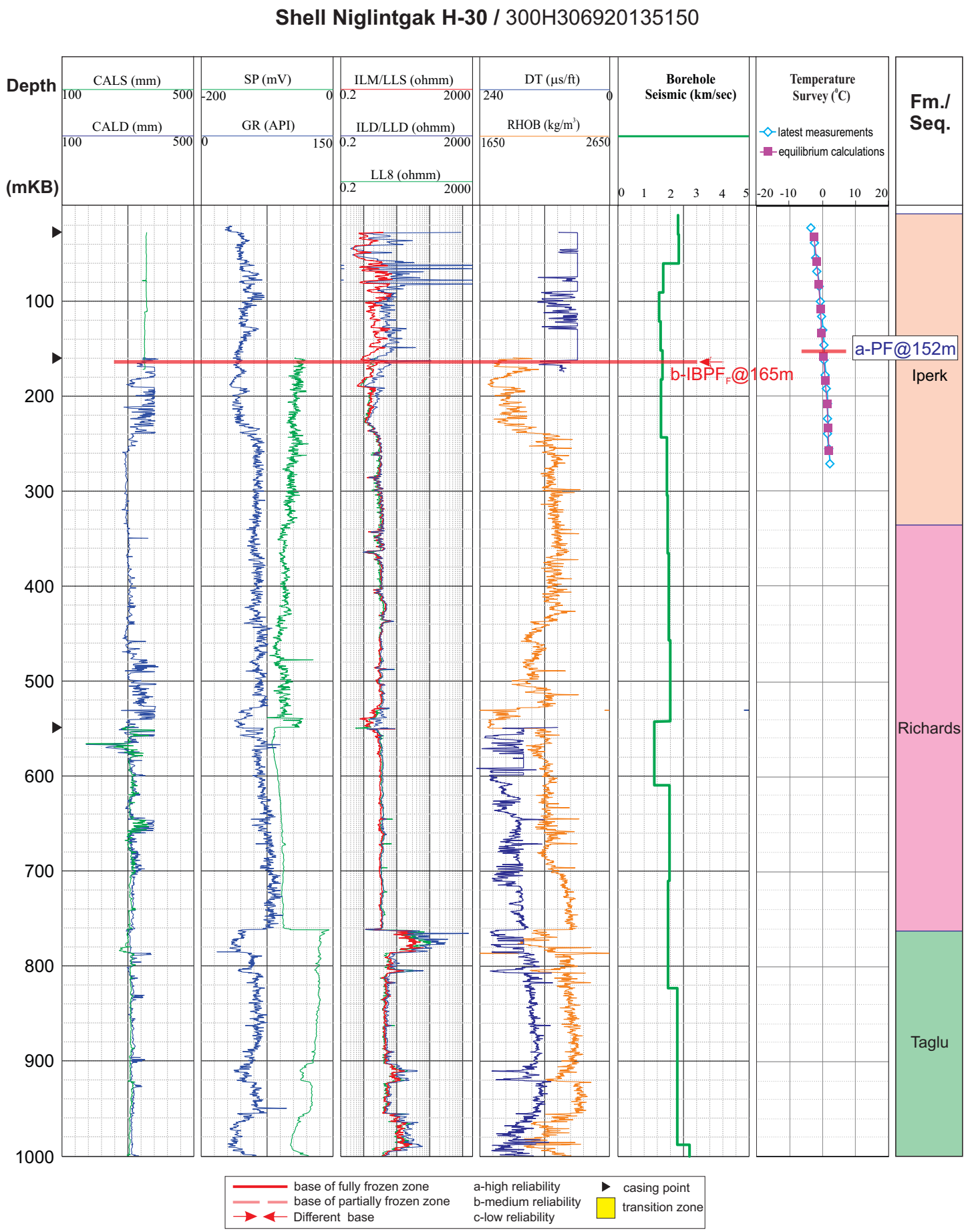

Figure 145. Determination of base of permafrost using temperature survey, well seismic survey and geophysical logs for the Niglintgak H-30 well in the Beaufort-Mackenzie Basin.

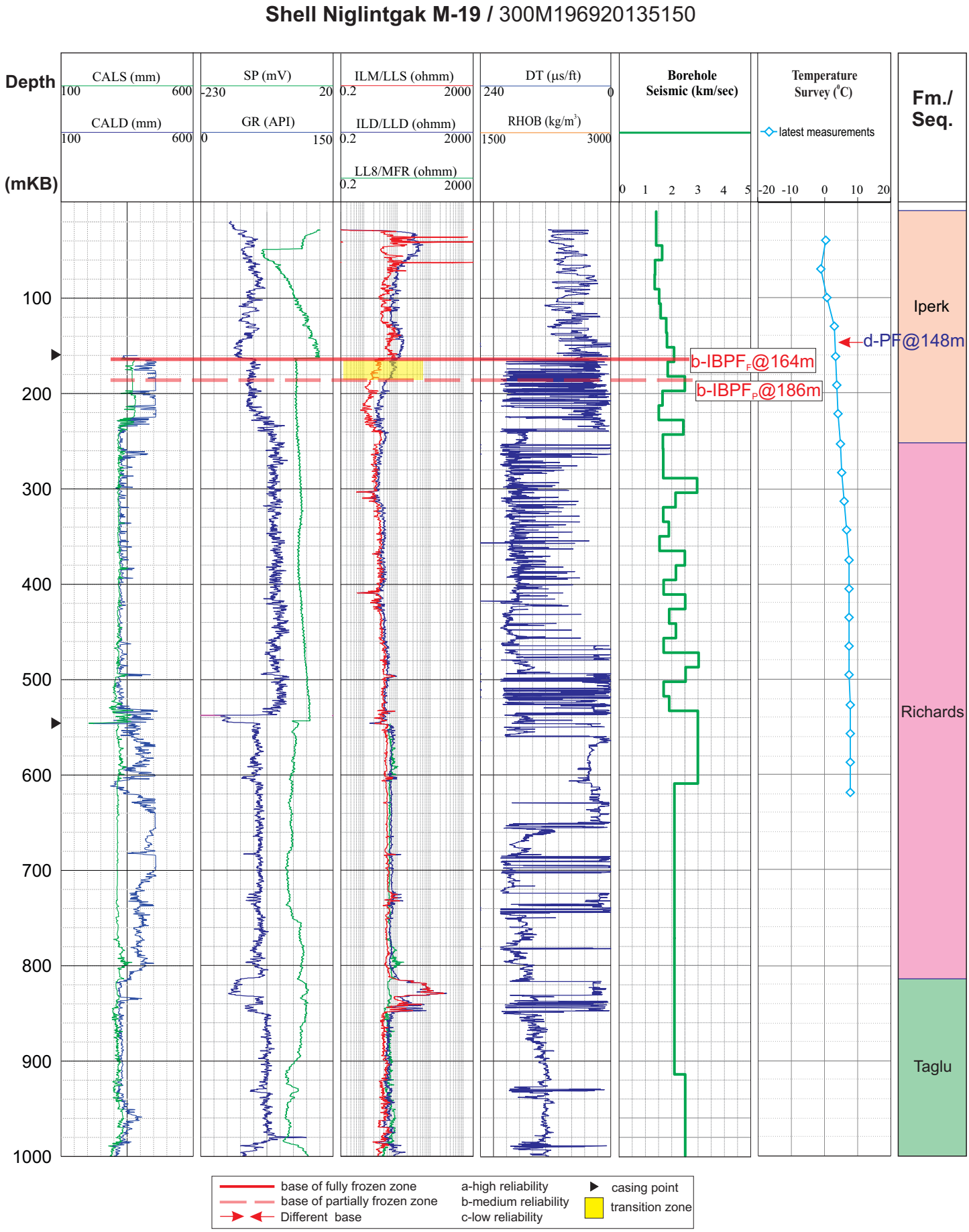

Figure 146. Determination of base of permafrost using temperature survey, well seismic survey and geophysical logs for the Niglintgak M-19 well in the Beaufort-Mackenzie Basin.

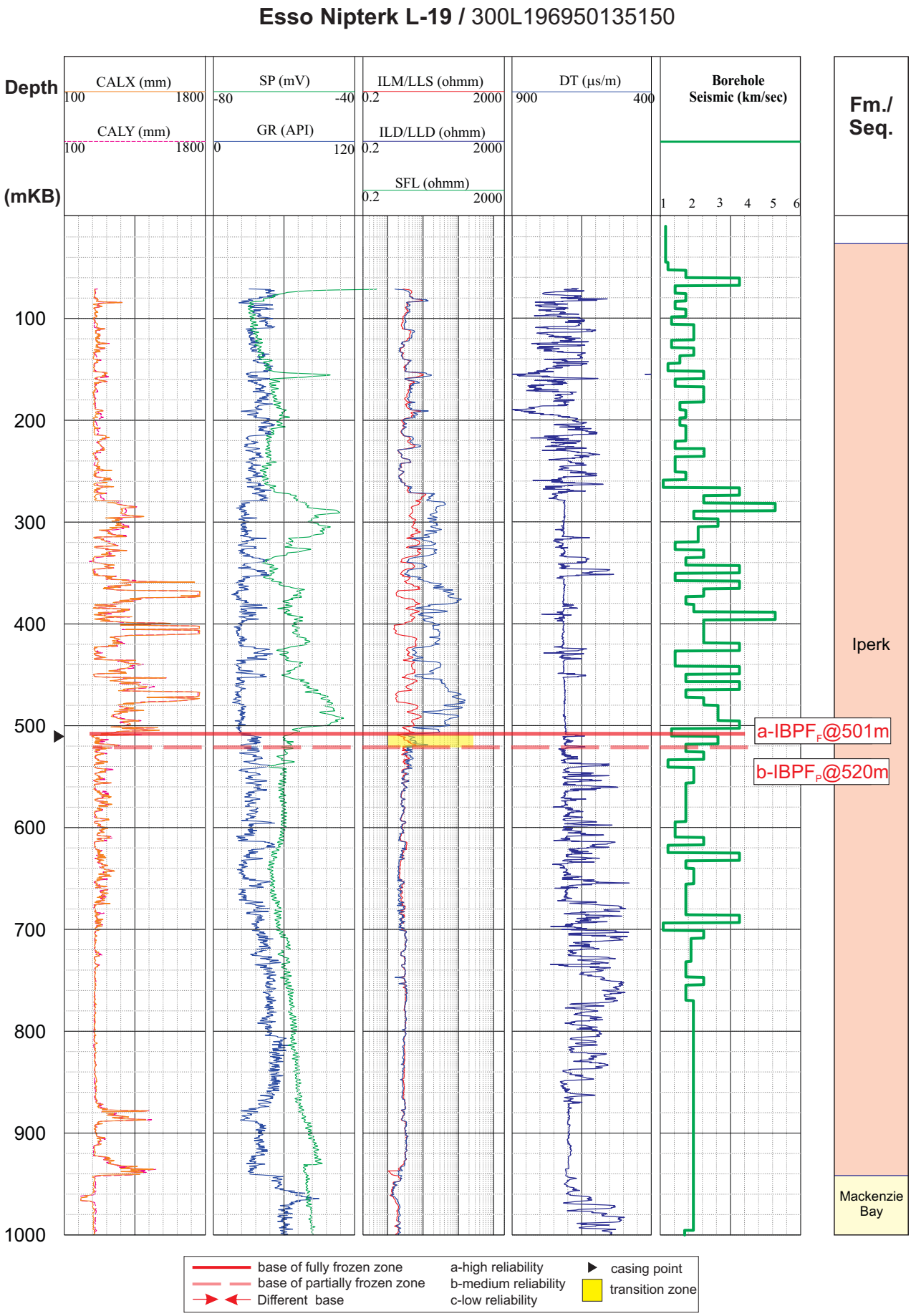

Figure 147. Determination of base of permafrost using well seismic survey and geophysical logs for the Nipterk L-19 well in the Beaufort-Mackenzie Basin.

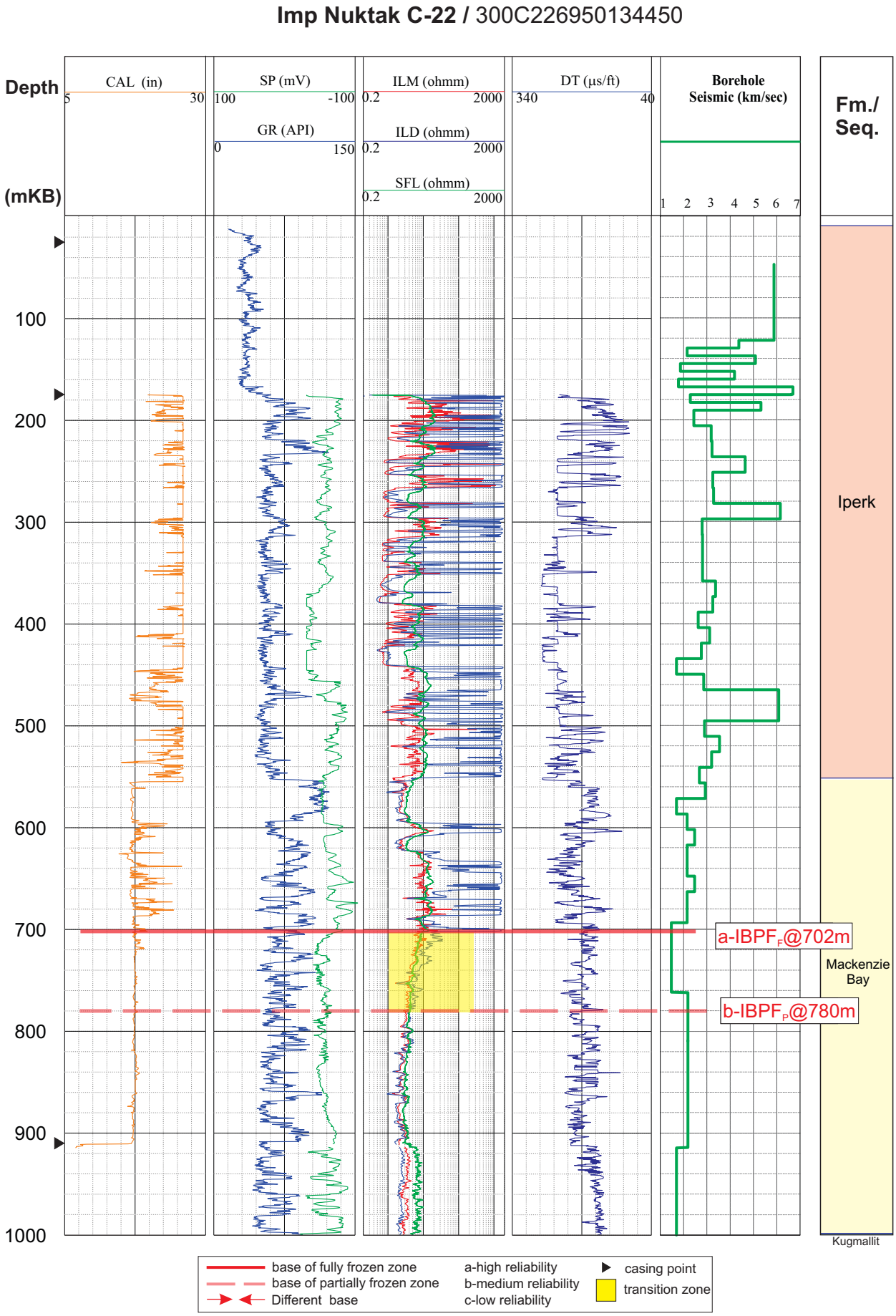

Figure 148. Determination of base of permafrost using well seismic survey and geophysical logs for the Nuktak C-22 well in the Beaufort-Mackenzie Basin.

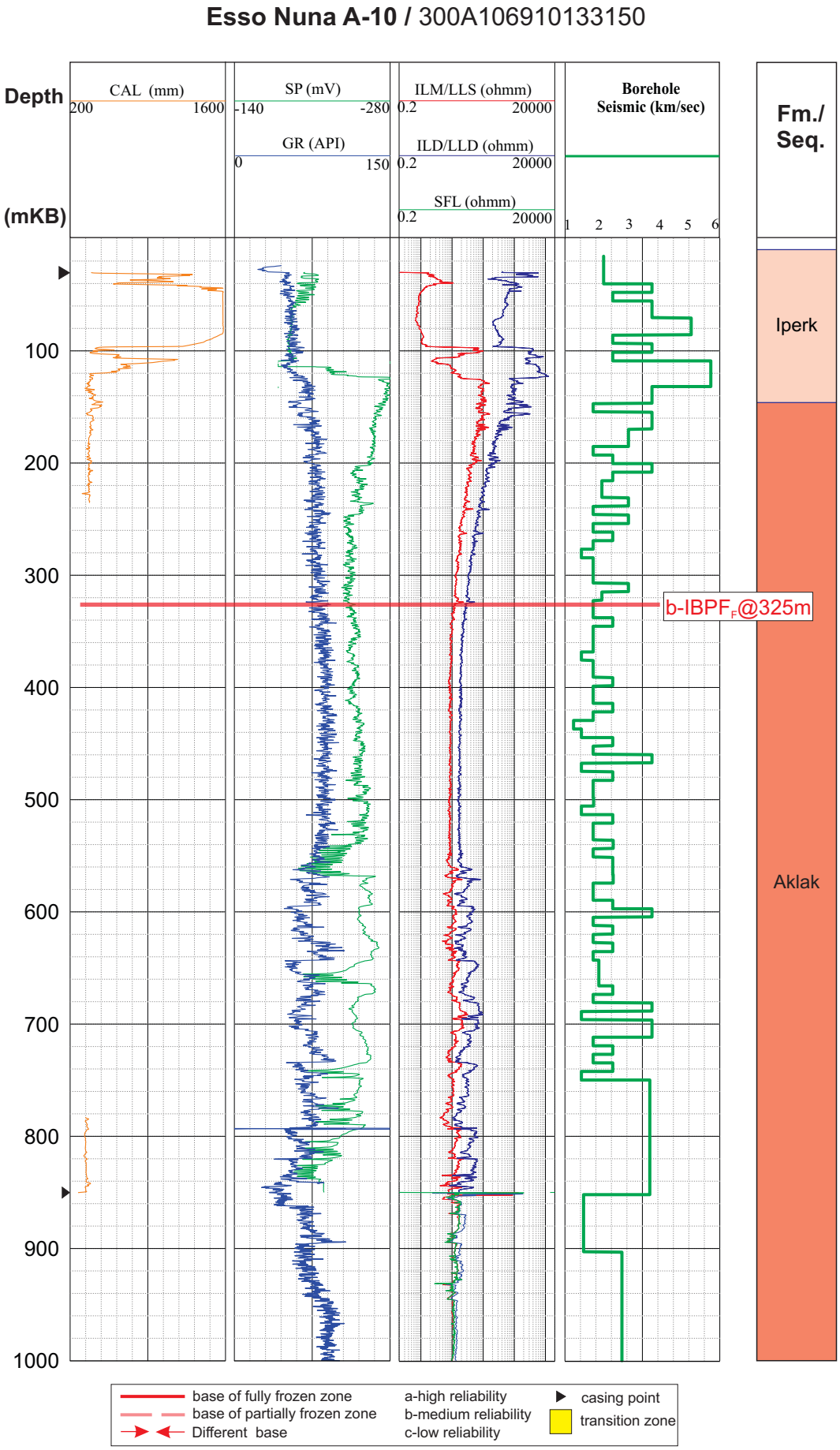

Figure 149. Determination of base of permafrost using well seismic survey and geophysical logs for the Nuna A-10 well in the Beaufort-Mackenzie Basin.

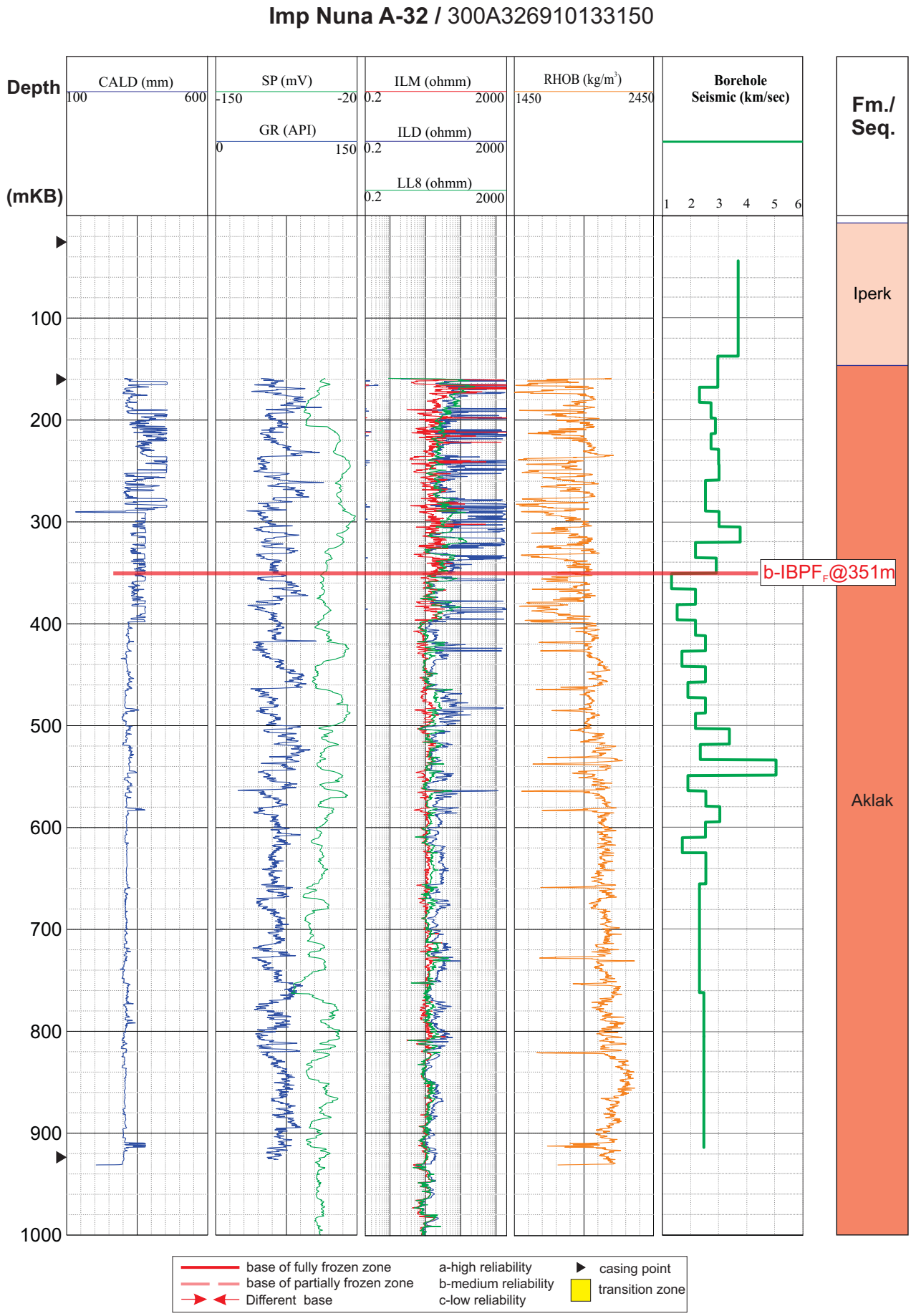

Figure 150. Determination of base of permafrost using well seismic survey and geophysical logs for the Nuna A-32 well in the Beaufort-Mackenzie Basin.

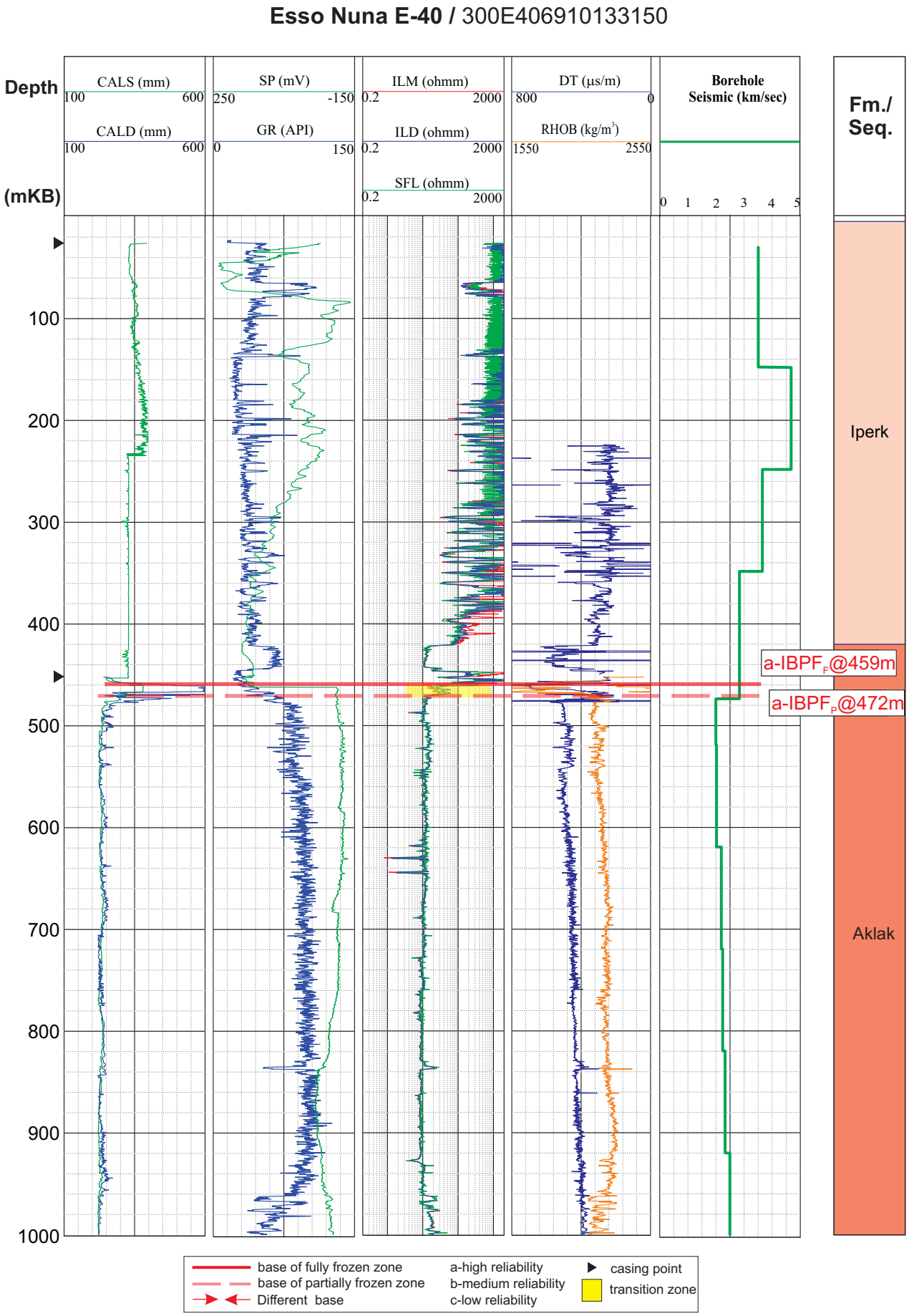

Figure 151. Determination of base of permafrost using well seismic survey and geophysical logs for the Nuna E-40 well in the Beaufort-Mackenzie Basin.

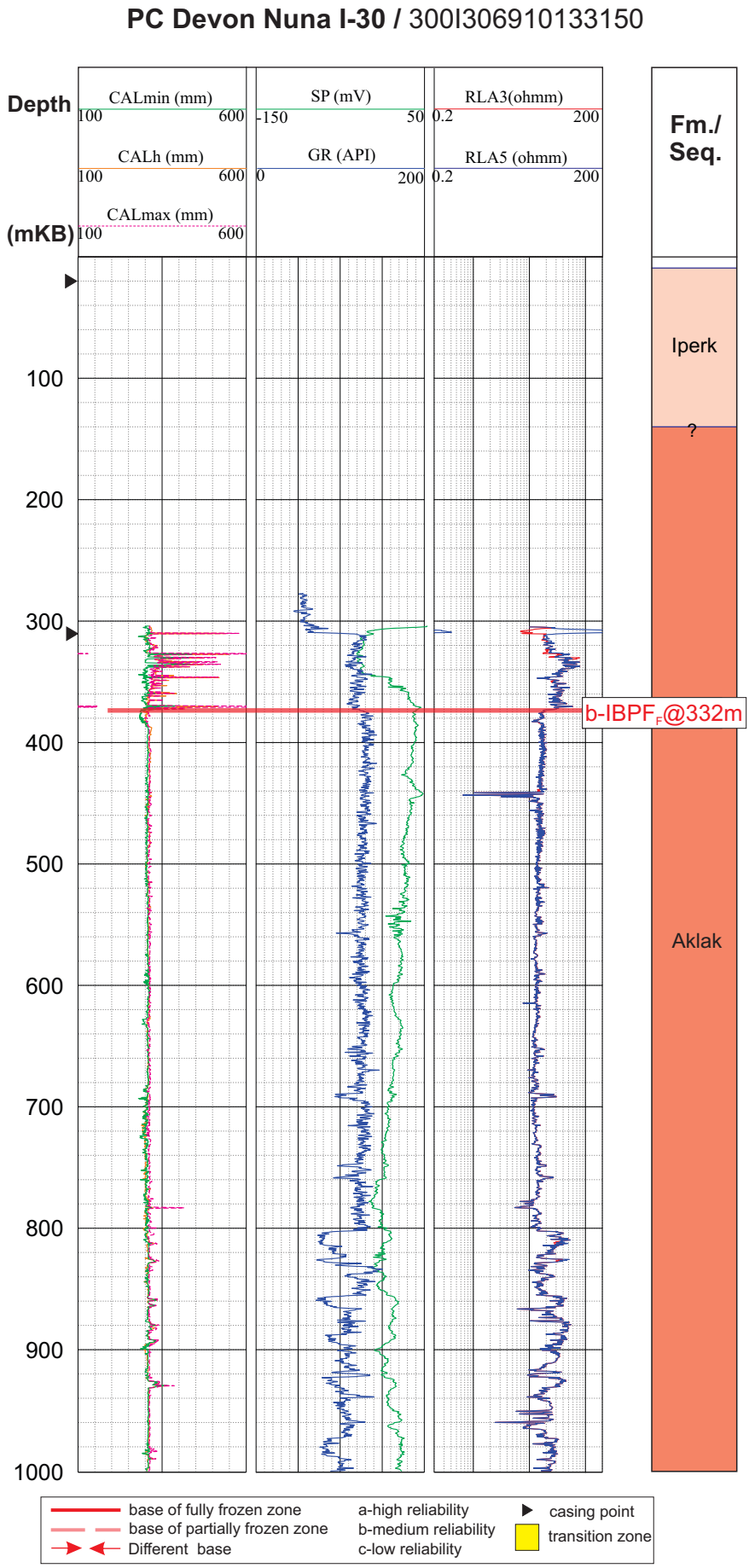

Figure 152. Determination of base of permafrost using geophysical logs for the Nuna I-30 well in the Beaufort-Mackenzie Basin.

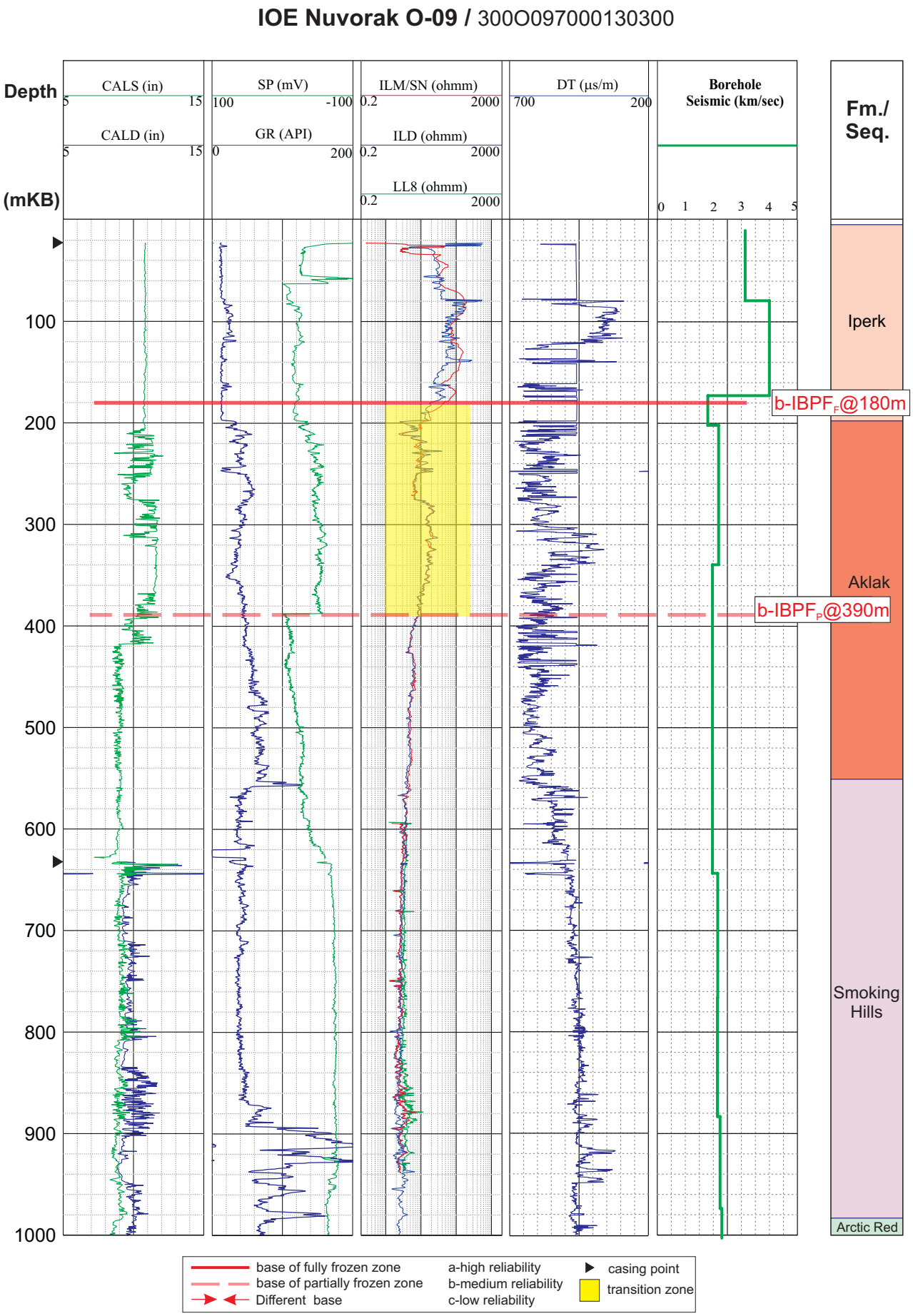

Figure 153. Determination of base of permafrost using well seismic survey and geophysical logs for the Nuvorak O-09 well in the Beaufort-Mackenzie Basin.

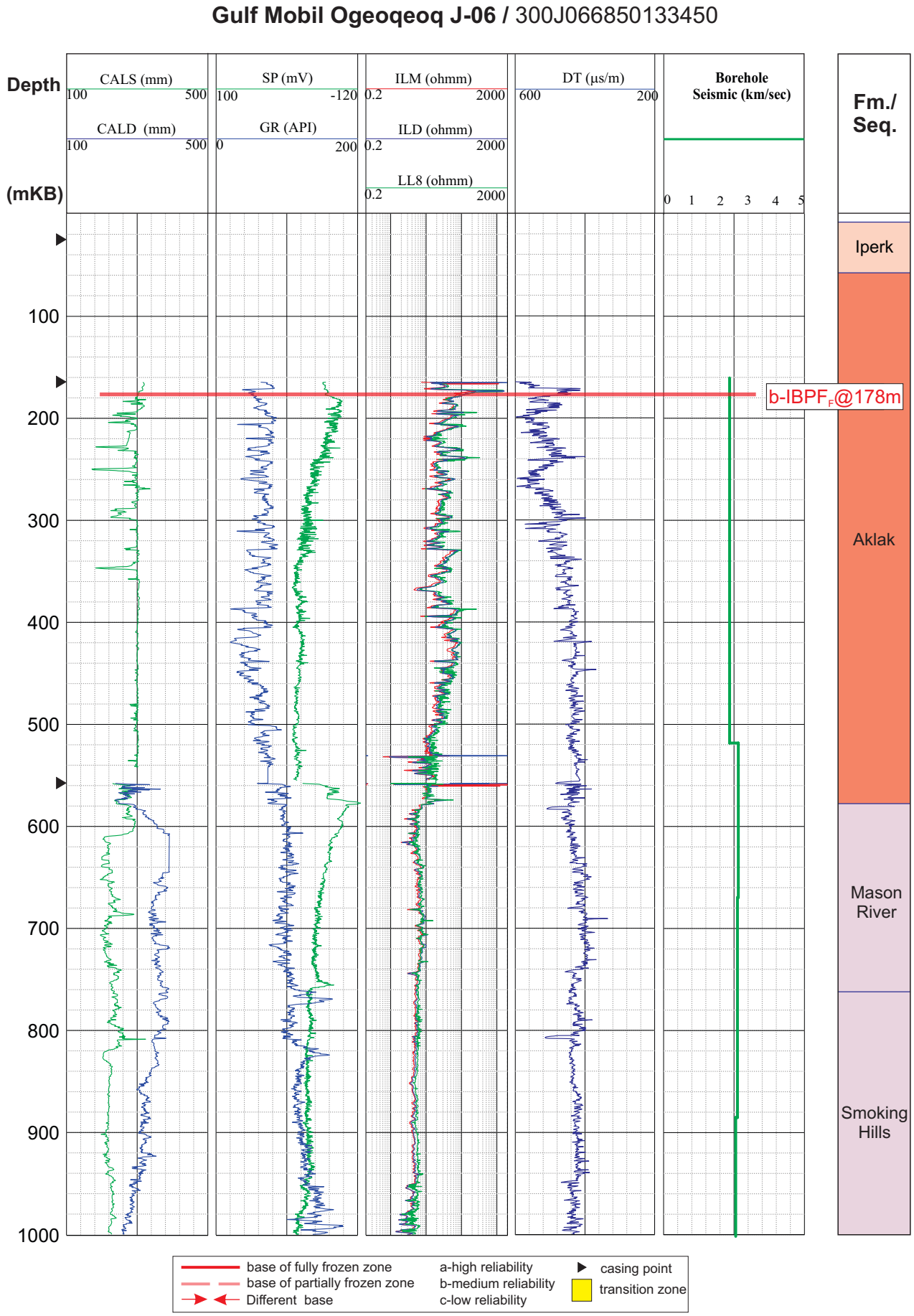

Figure 154. Determination of base of permafrost using well seismic survey and geophysical logs for the Ogeoqeoq J-06 well in the Beaufort-Mackenzie Basin.

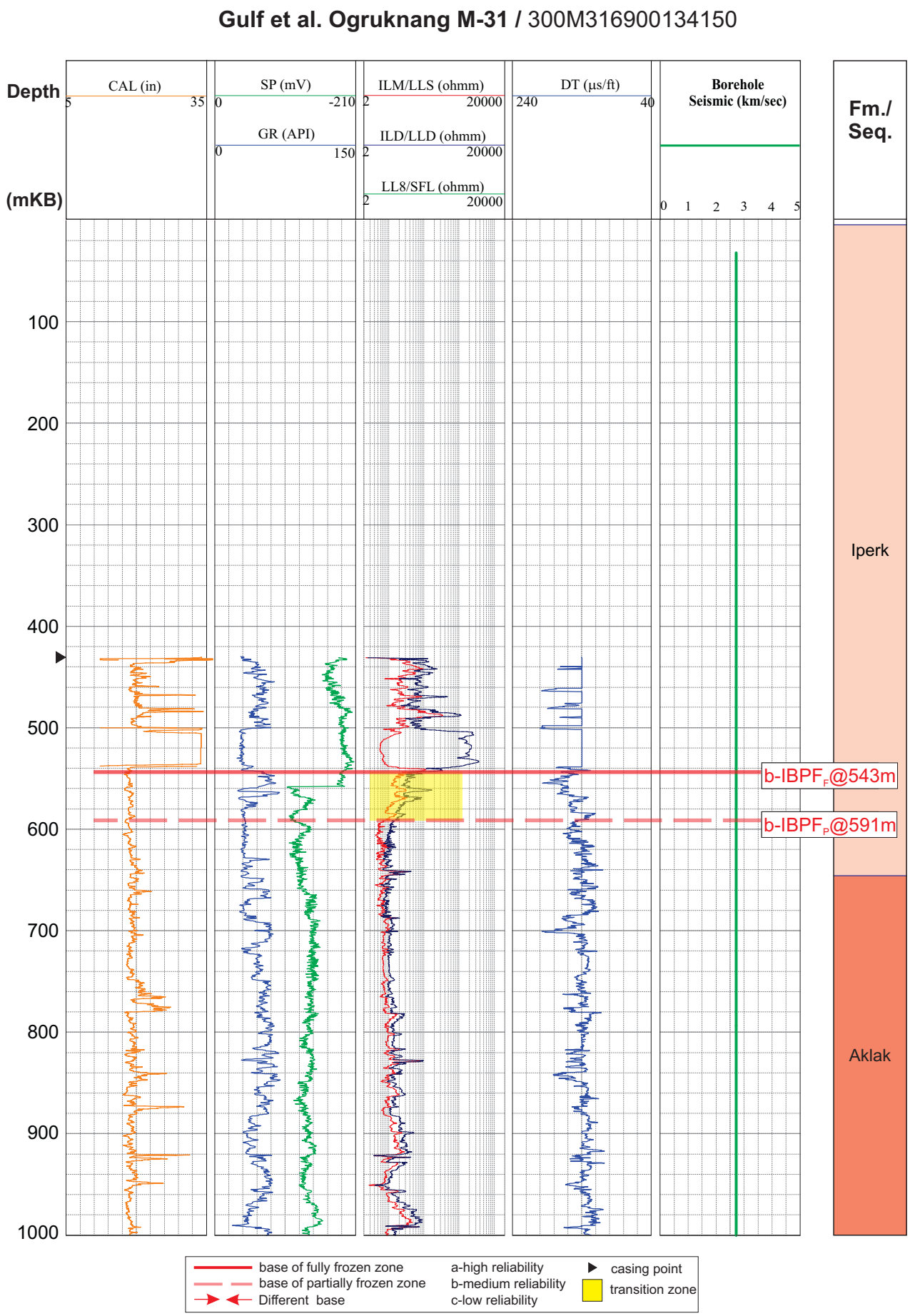

Figure 155. Determination of base of permafrost using well seismic survey and geophysical logs for the Ogruknang M-31 well in the Beaufort-Mackenzie Basin.

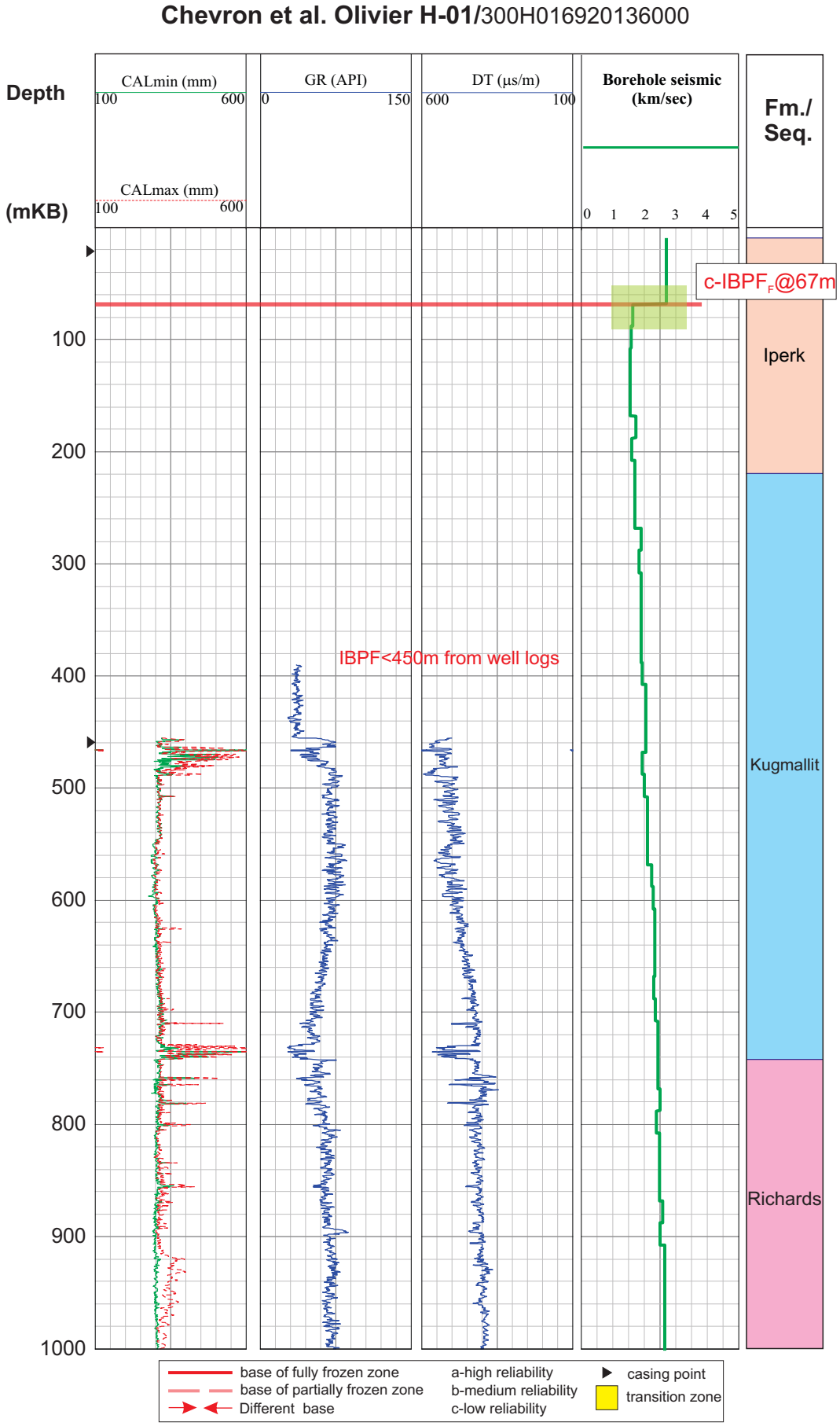

Figure 156. Log suite and well seismic survey for shallow interval (≤1000m) for the Olivier H-01 well. The base of permafrost is estimated from well seismic survey.

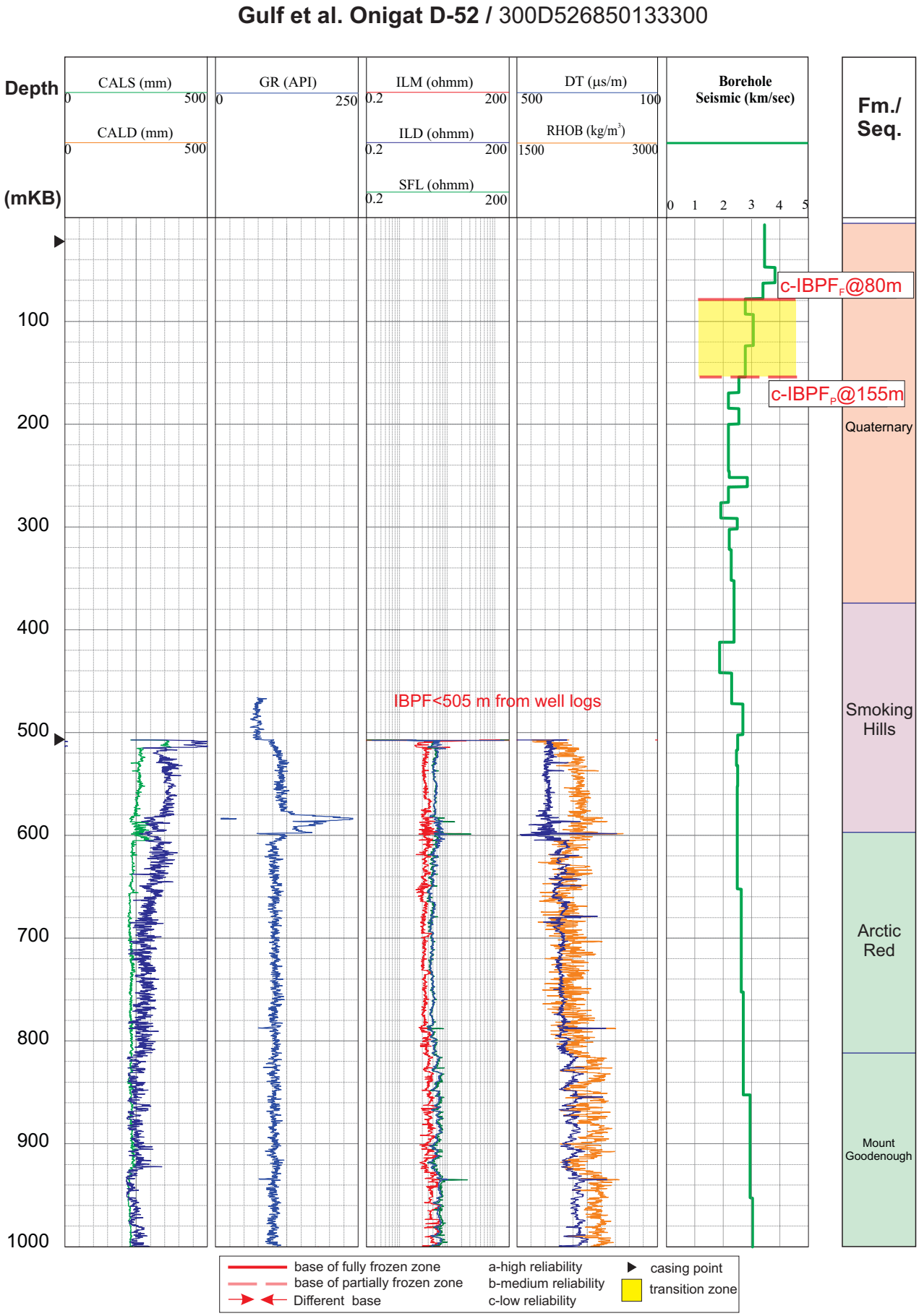

Figure 157. The base of permafrost is estimated from well seismic survey for the Onigat D-52 well in the Beaufort-Mackenzie Basin.

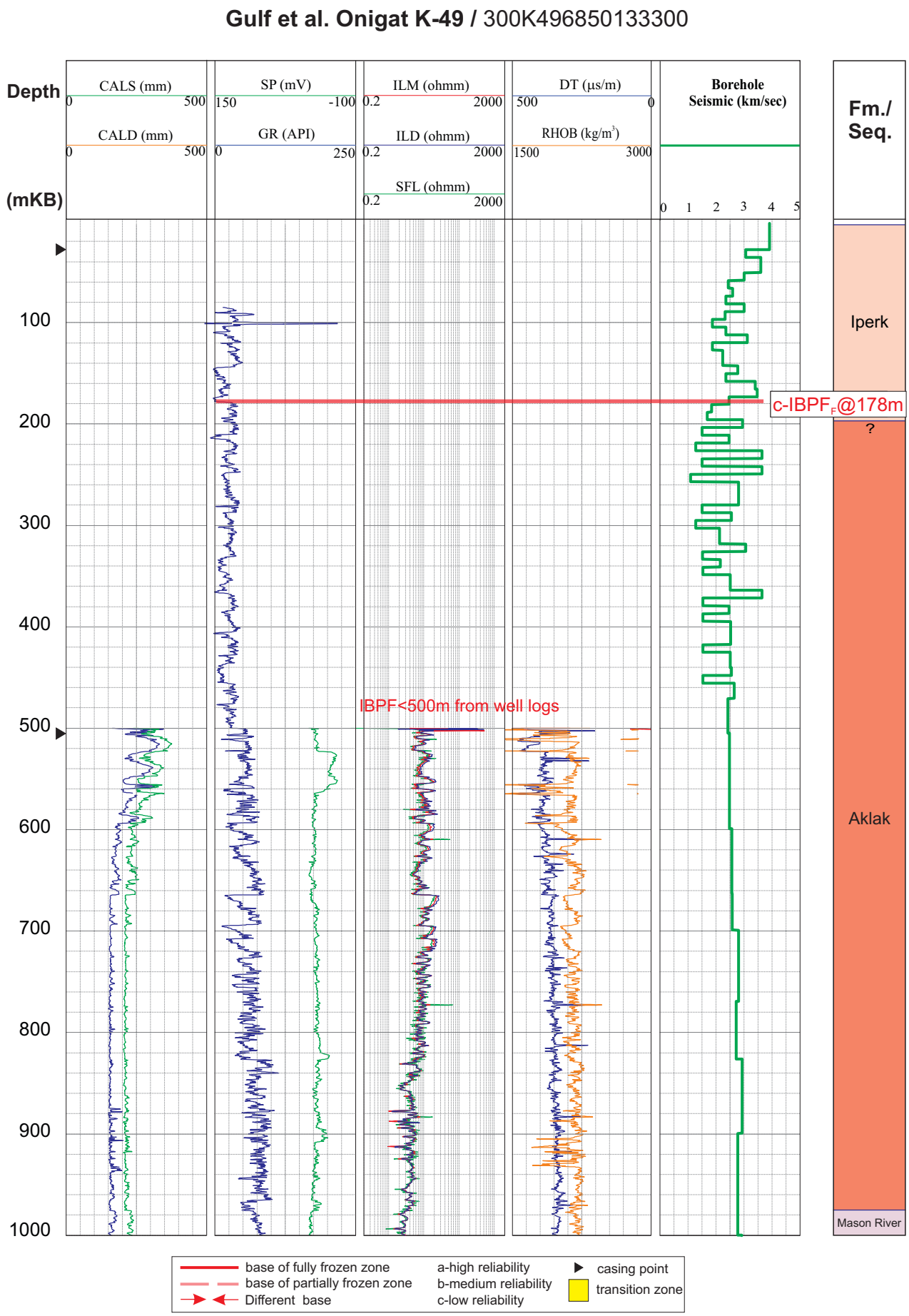

Figure 158. The base of permafrost is estimated from well seismic survey for the Onigat K-49 well in the Beaufort-Mackenzie Basin.

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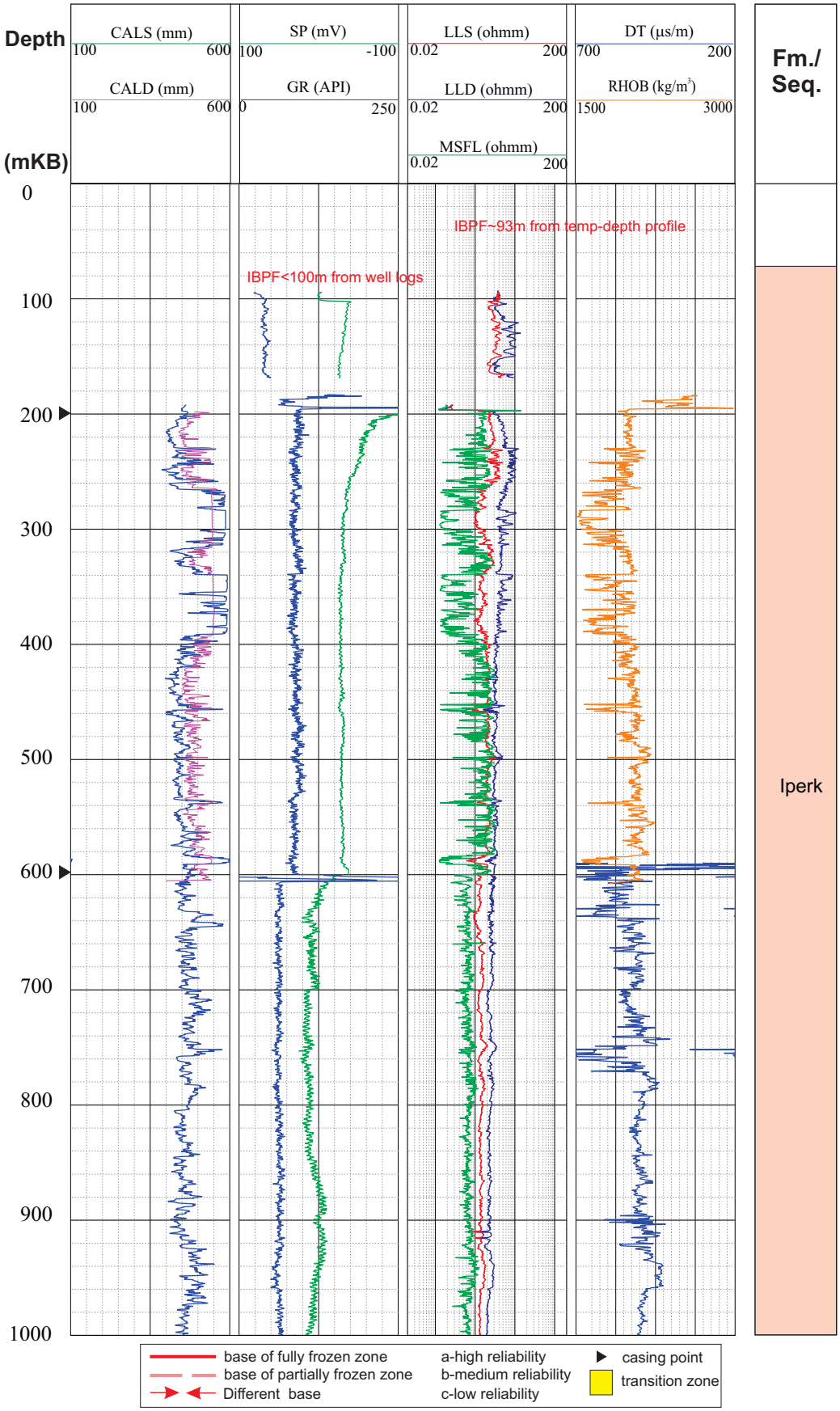

Figure 159. Log suite for shallow interval (≤1000m) for the Orvilruk O-03 well in the Beaufort-Mackenzie Basin. The base of permafrost is estimated from borehole temperature profile.

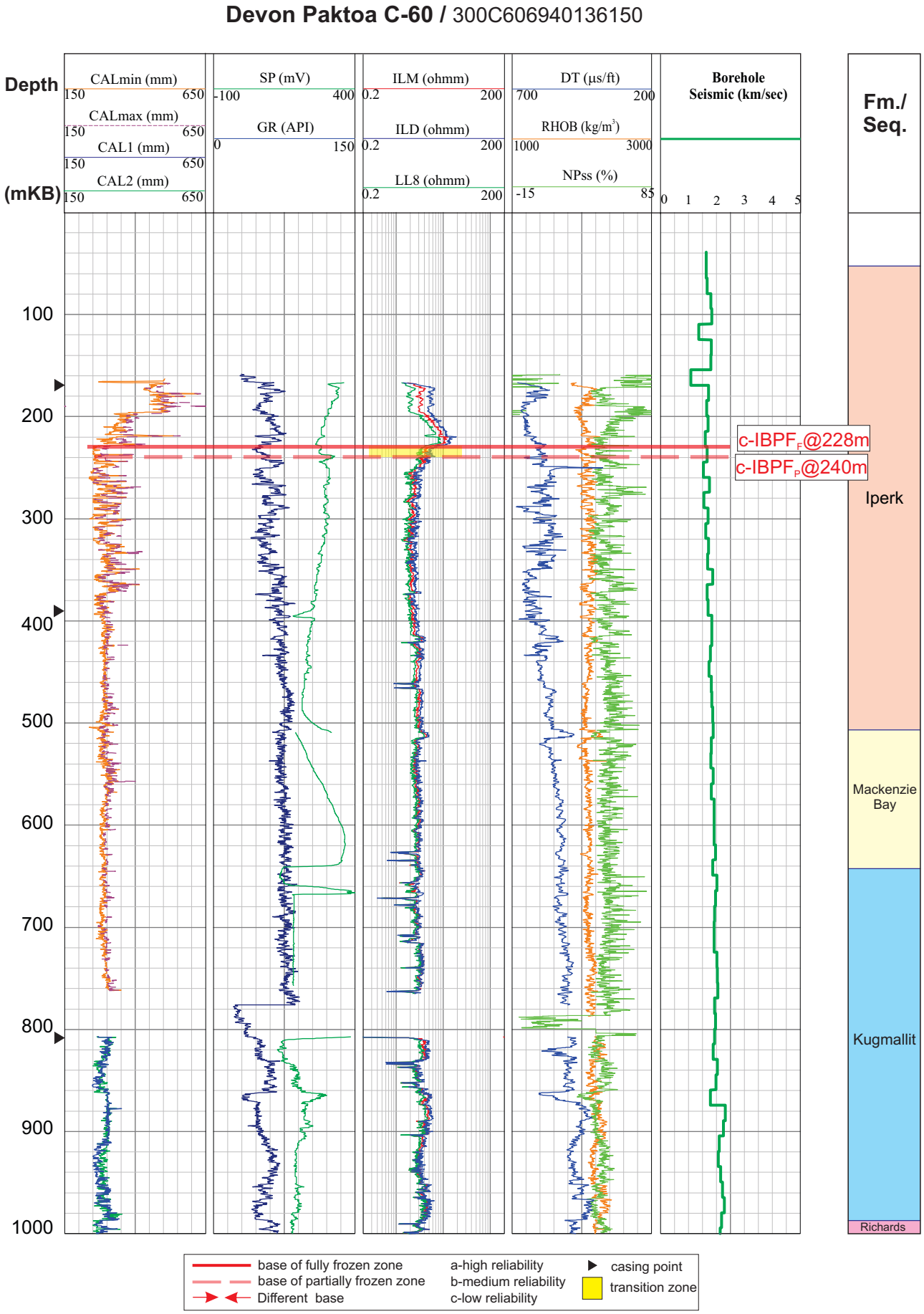

Figure 160. Determination of base of permafrost using well seismic survey and geophysical logs for the Paktoa C-60 well in the Beaufort-Mackenzie Basin.

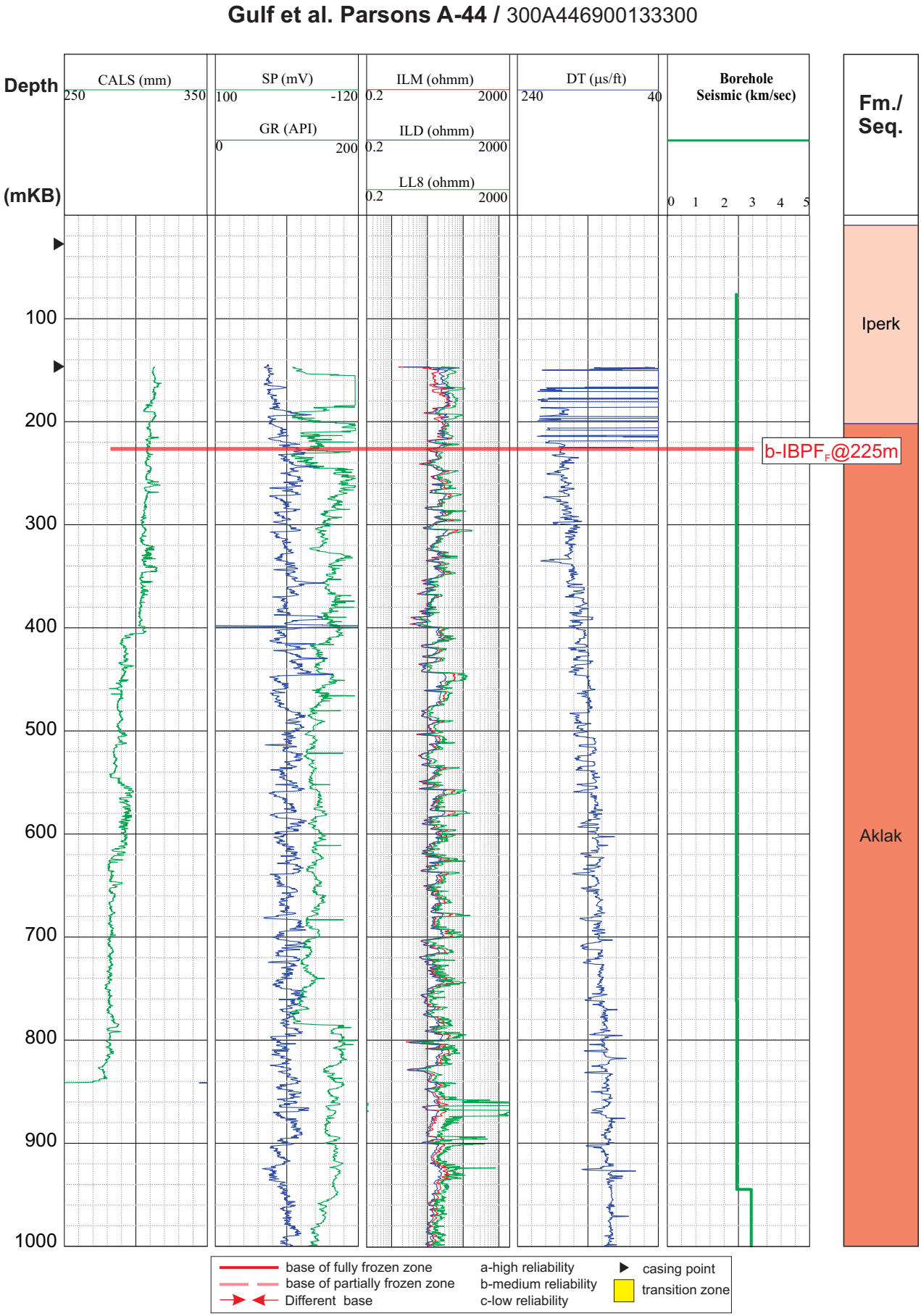

Figure 161. Determination of base of permafrost using well seismic survey and geophysical logs, as well as lithology information for the Parsons A-44 well in the Beaufort-Mackenzie Basin.

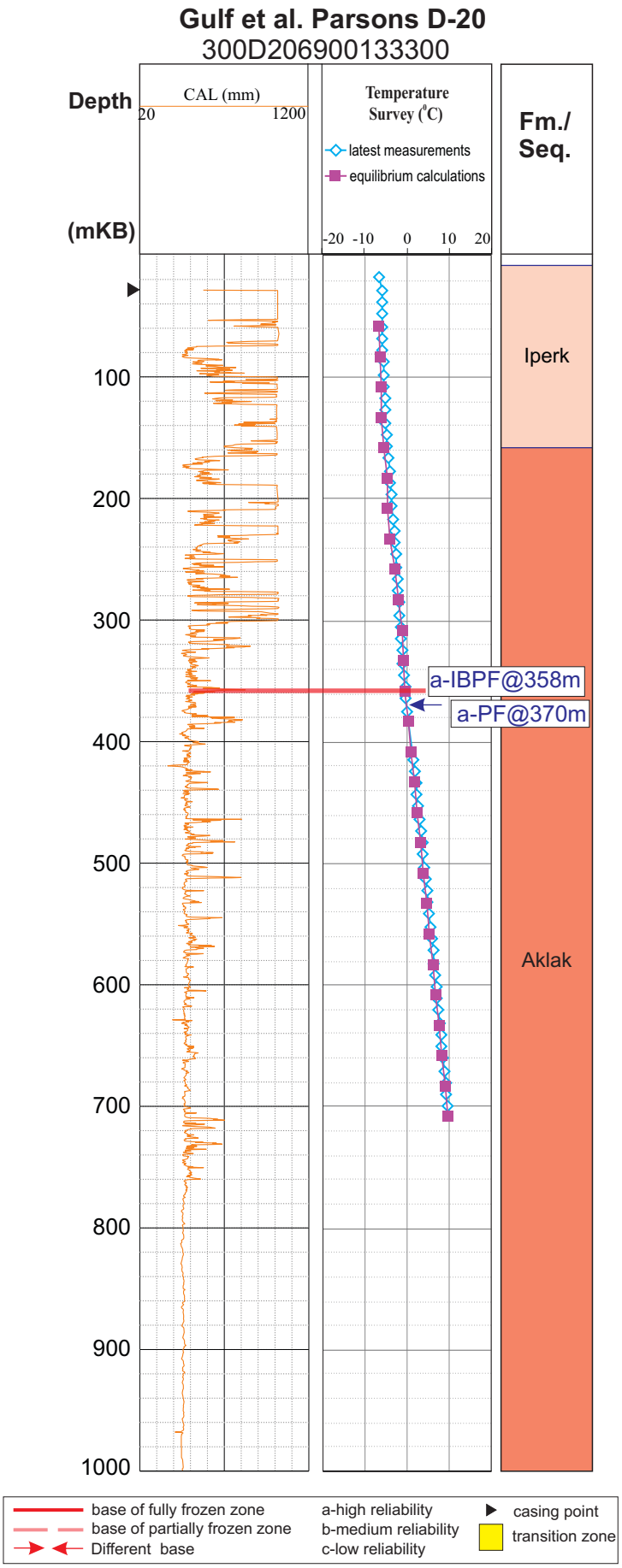

Figure 162. Determination of base of permafrost mainly using temperature survey for the Parsons D-20 well in the Beaufort-Mackenzie Basin.

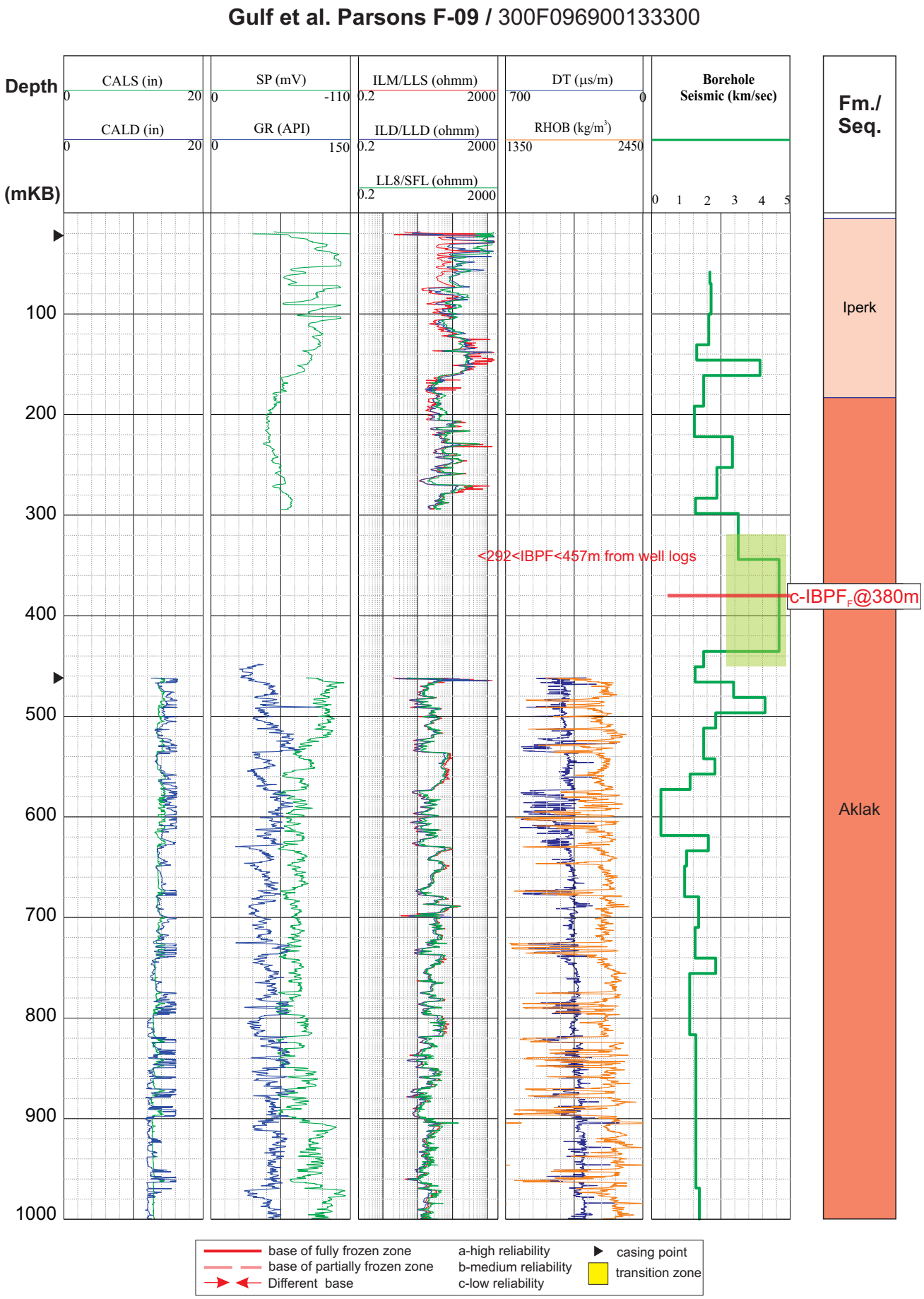

Figure 163. Determination of base of permafrost using well seismic survey and geophysical logs for the Parsons F-09 well in the Beaufort-Mackenzie Basin.

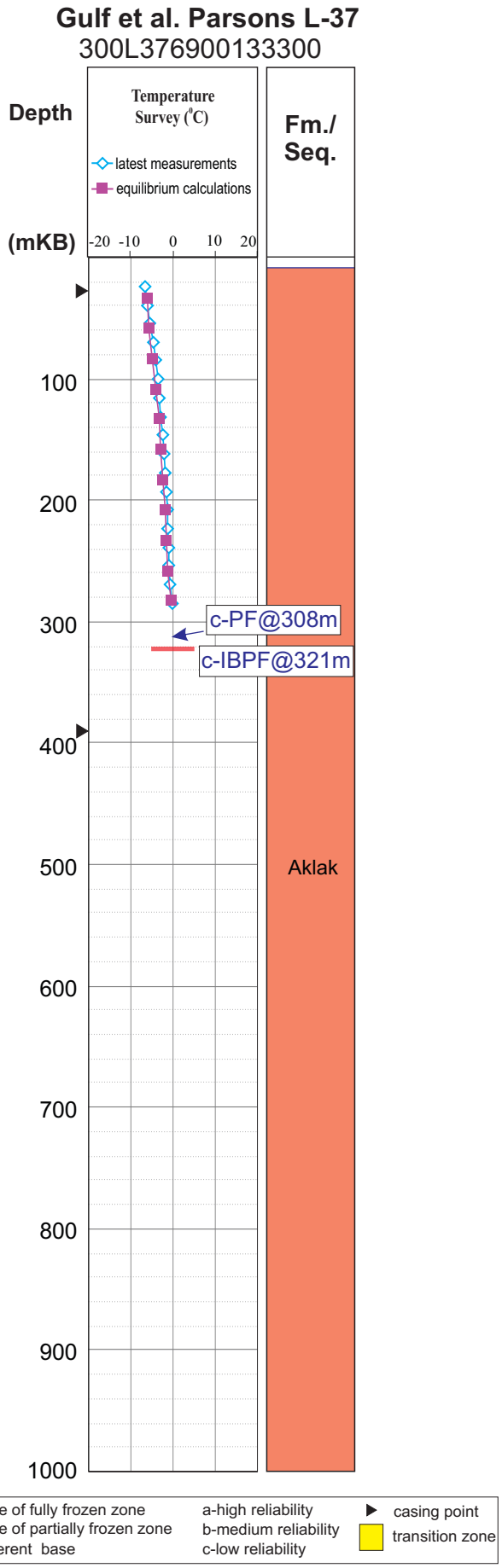

Figure 164. Determination of base of permafrost using temperature survey for the Parsons L-37 well in the Beaufort-Mackenzie Basin.

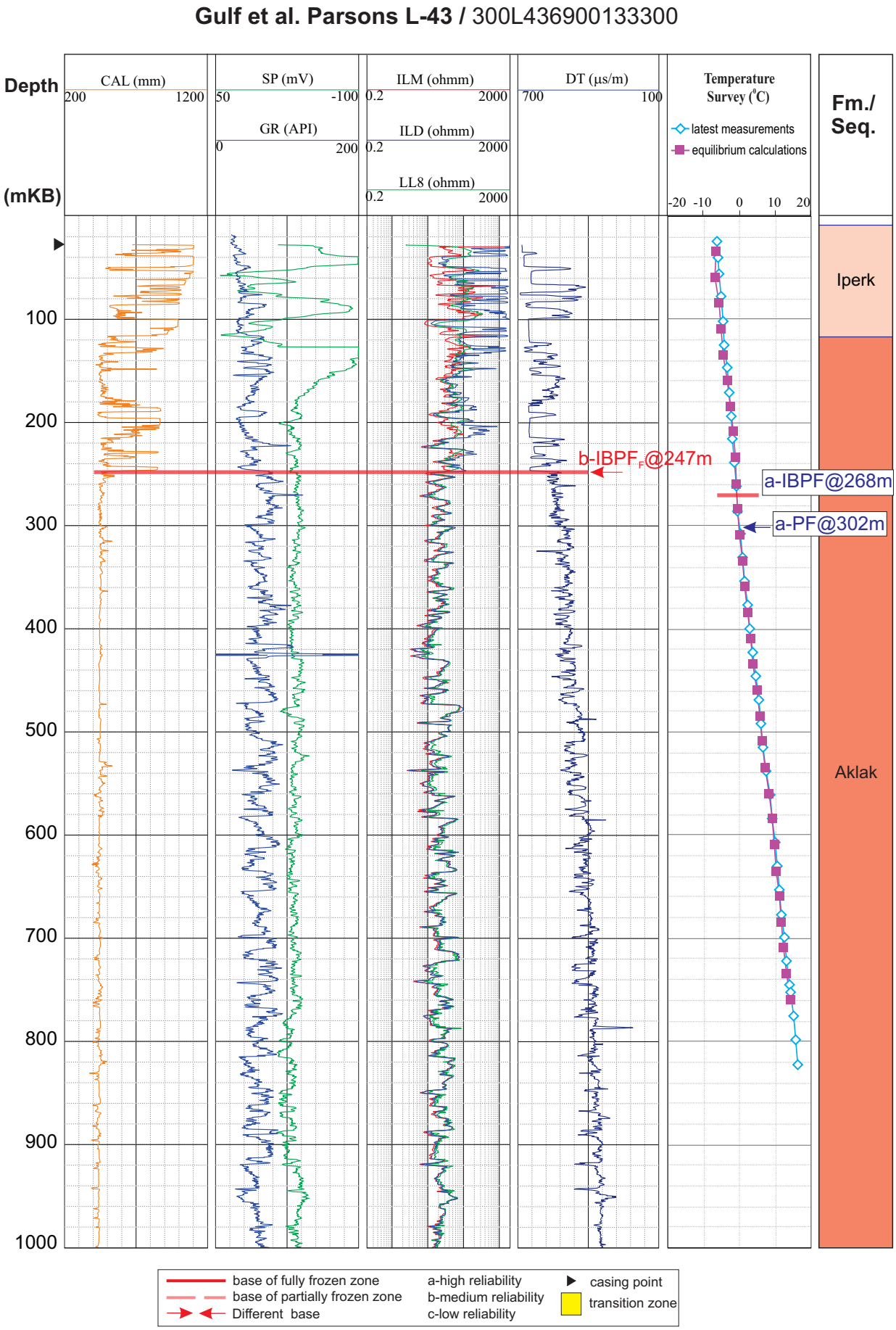

Figure 165. Determination of base of permafrost using temperature survey and geophysical logs for the Parsons L-43 well in the Beaufort-Mackenzie Basin.

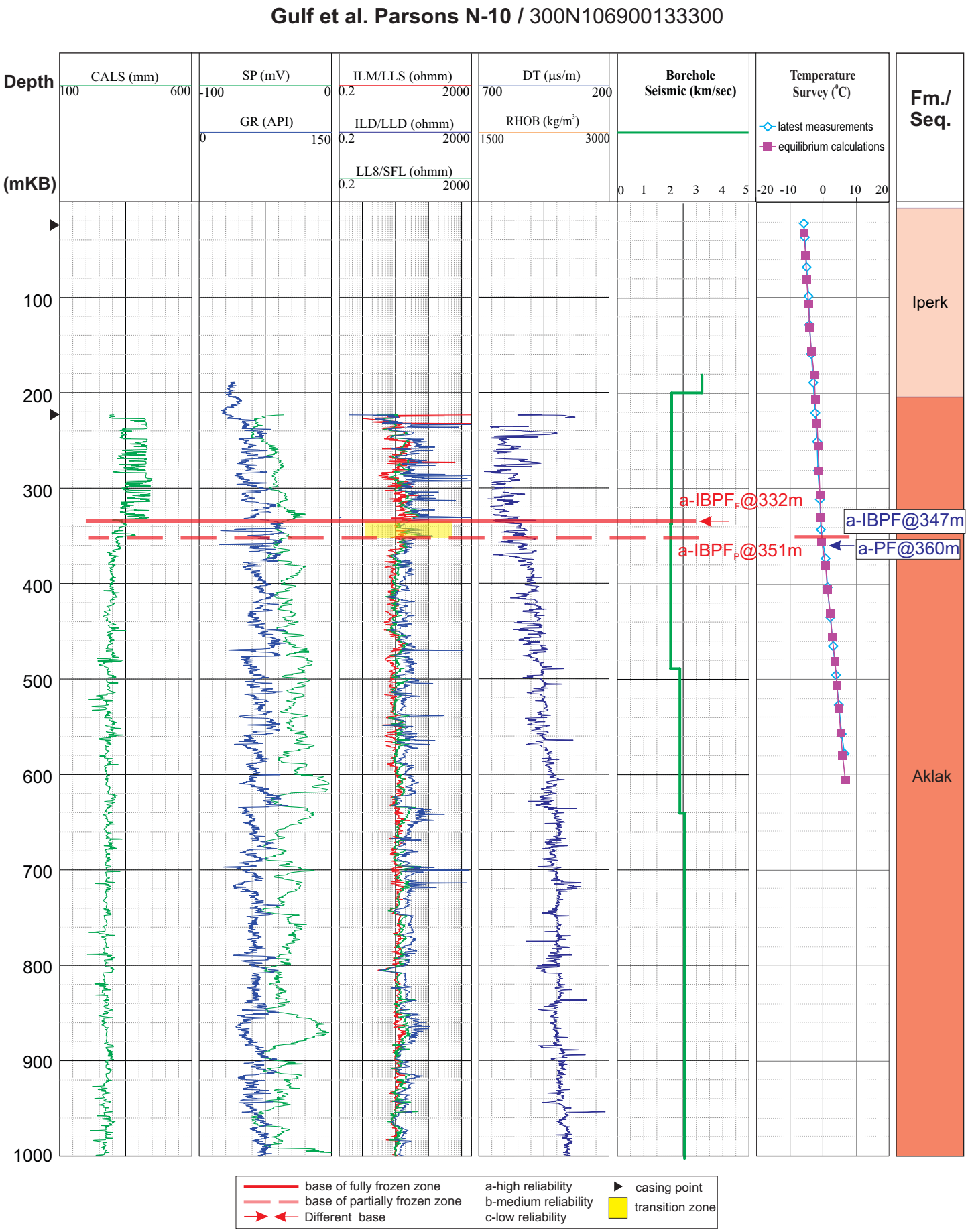

Figure 166. Determination of base of permafrost using temperature survey, well seismic survey and geophysical logs for the Parsons N-10 well in the Beaufort-Mackenzie Basin.

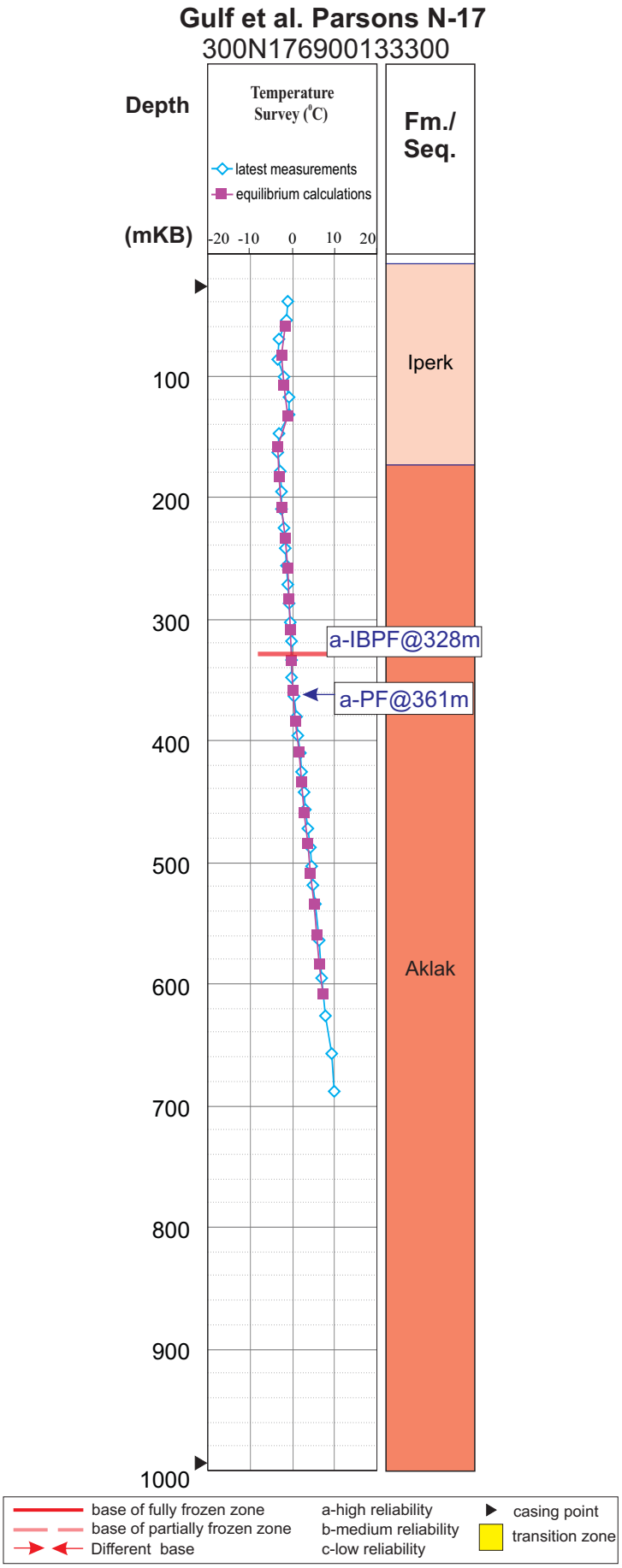

Figure 167. Determination of base of permafrost from temperature survey for the the Parsons N-17 well in the Beaufort-Mackenzie Basin.

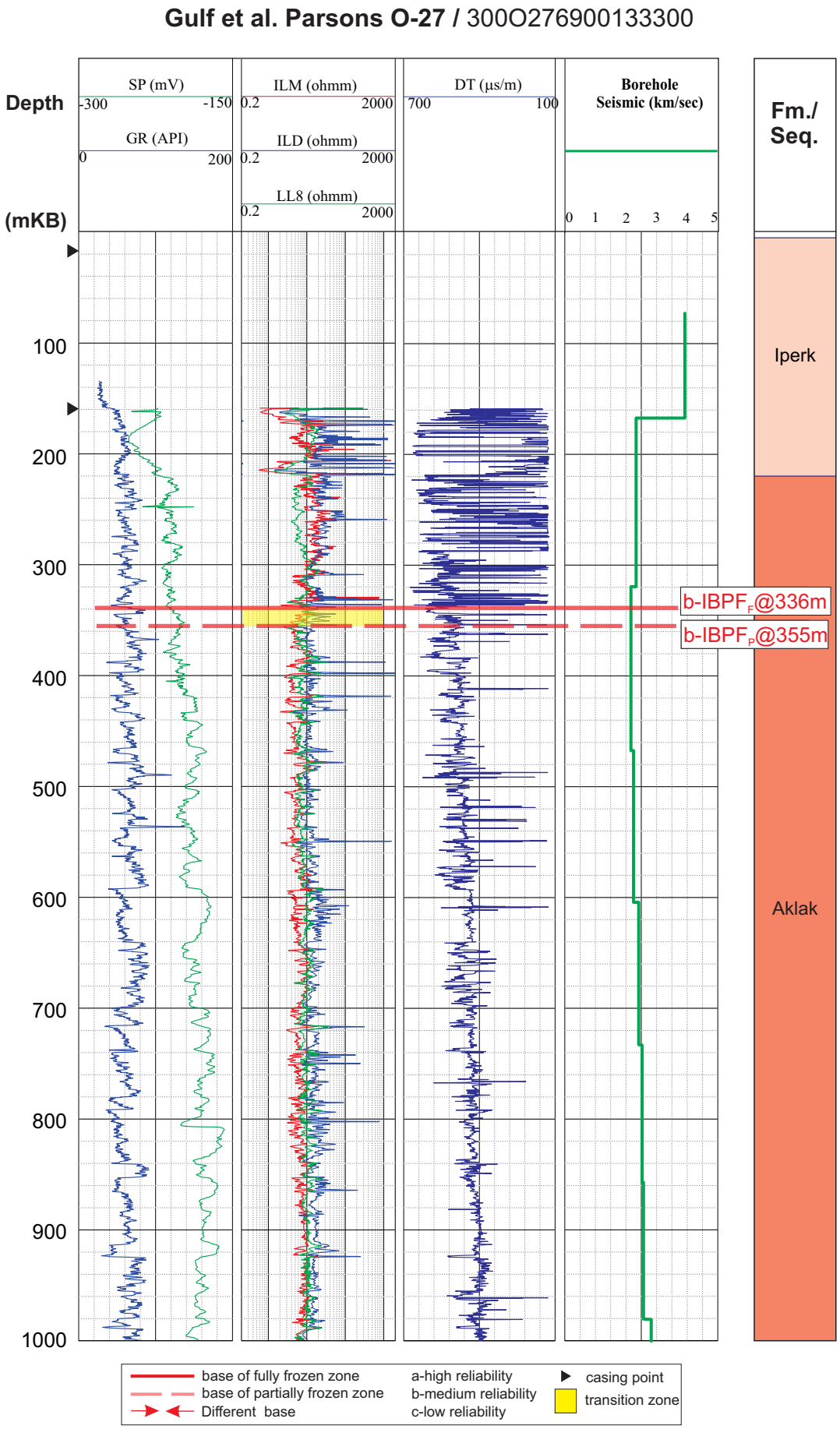

Figure 168. Determination of base of permafrost using well seismic survey and geophysical logs for the Parsons O-27 well in the Beaufort-Mackenzie Basin.

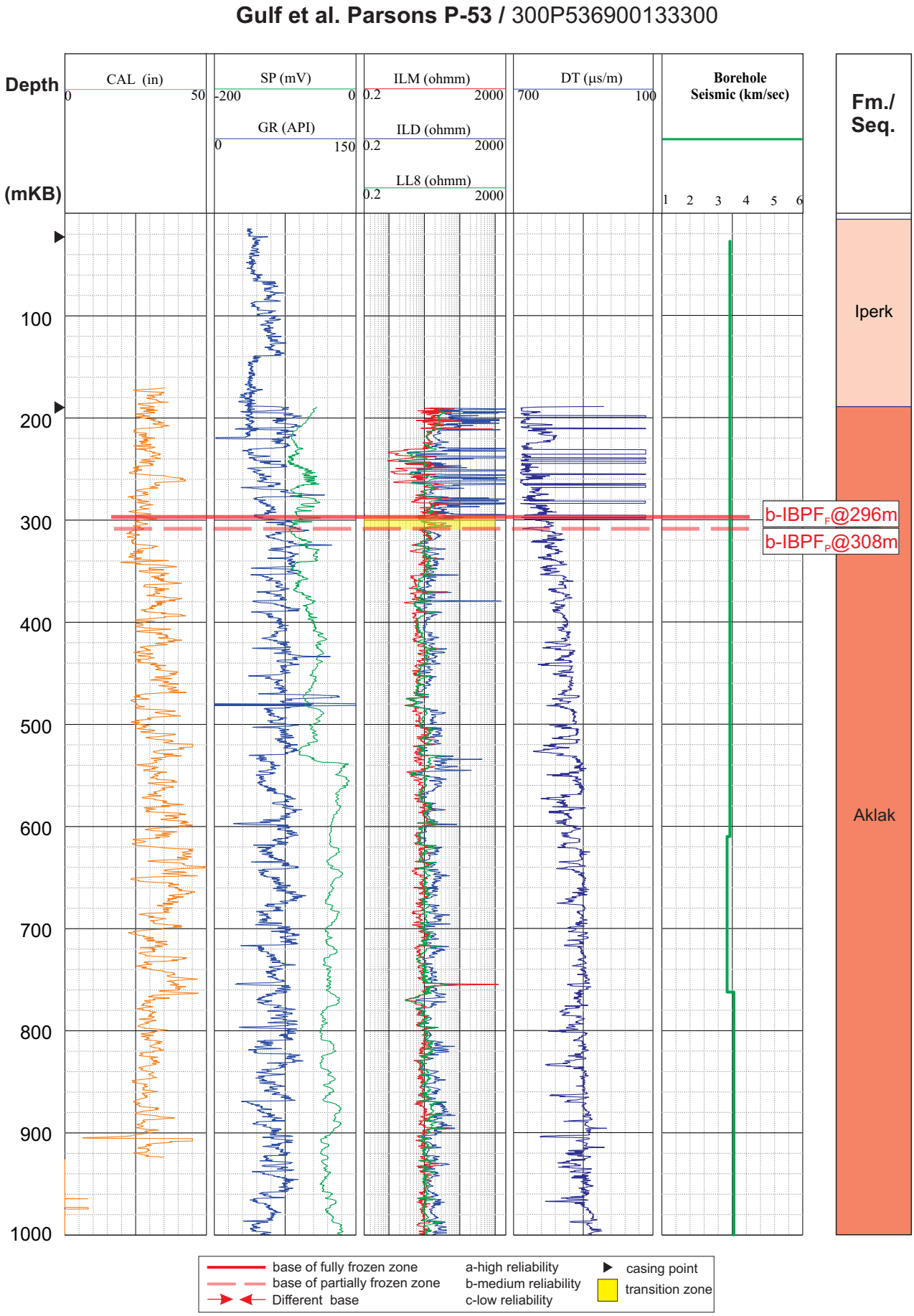

Figure 169. Determination of base of permafrost using well seismic survey and geophysical logs for the Parsons P-53 well in the Beaufort-Mackenzie Basin.

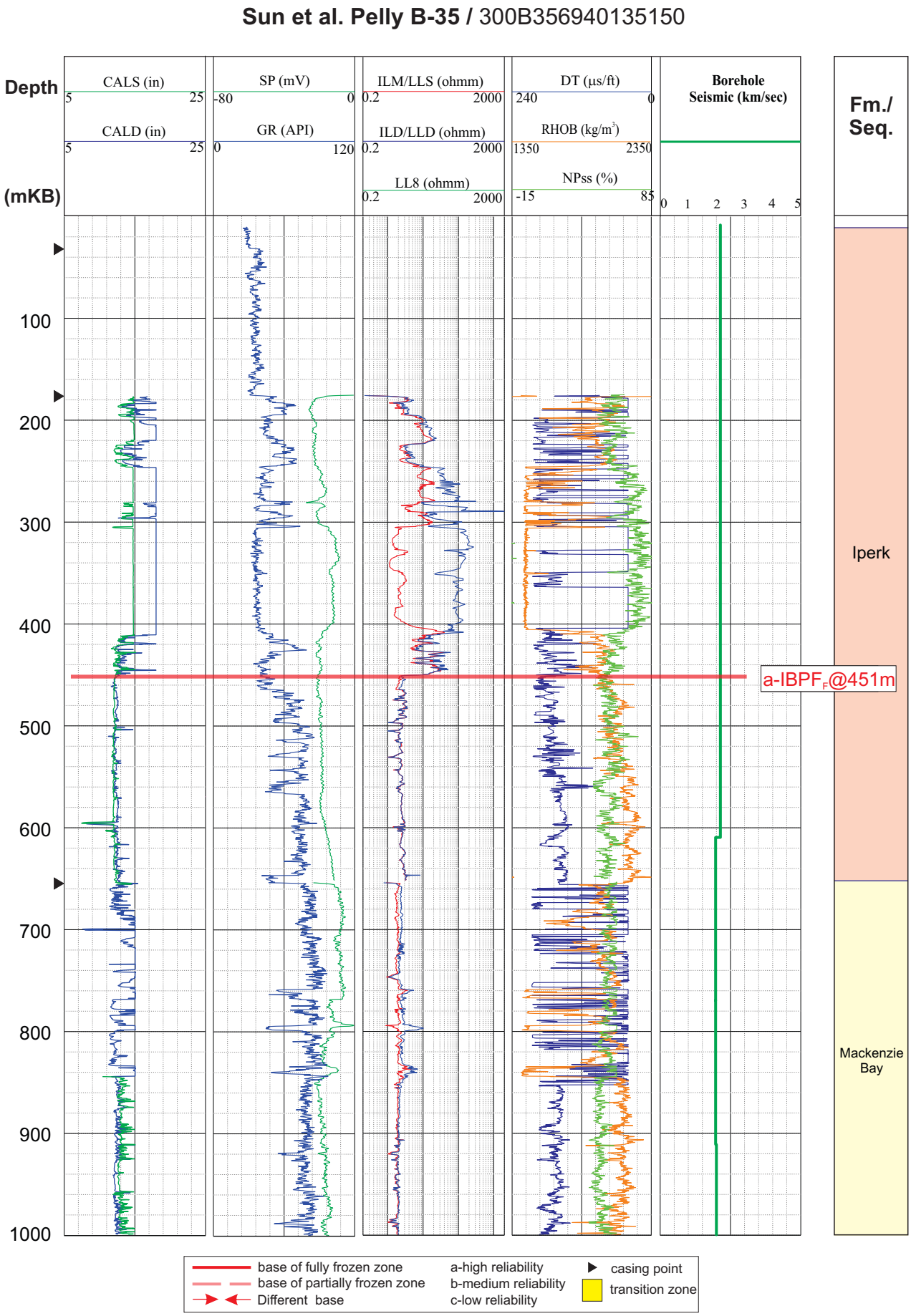

Figure 170. Determination of base of permafrost using well seismic survey and geophysical logs for the Pelly B-35 well in the Beaufort-Mackenzie Basin.

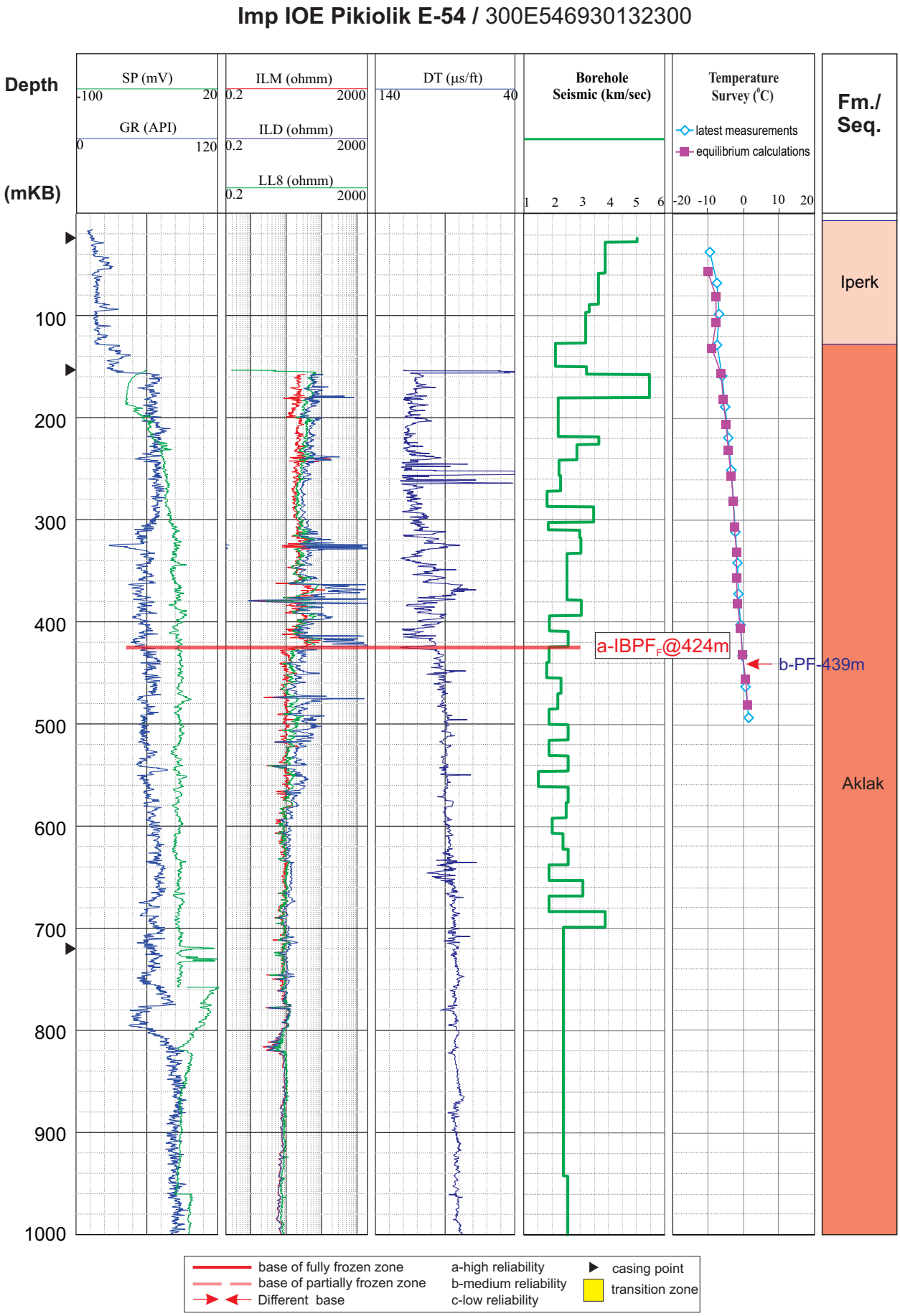

Figure 171. Determination of base of permafrost using well seismic survey and geophysical logs for the Pikiolik E-54 well in the Beaufort-Mackenzie Basin.

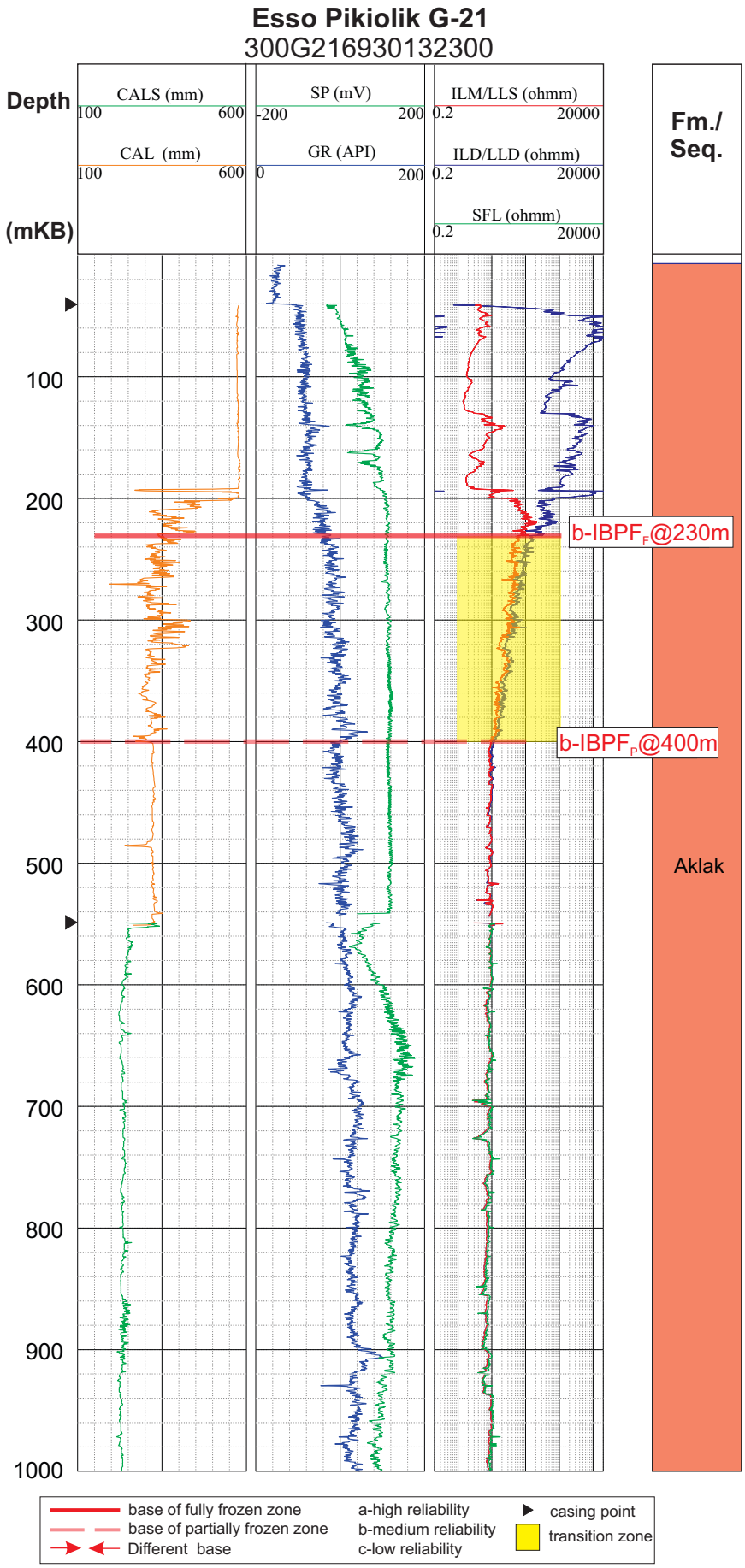

Figure 172. Determination of base of permafrost using geophysical logs for the Pikiolik G-21 well in the Beaufort-Mackenzie Basin.

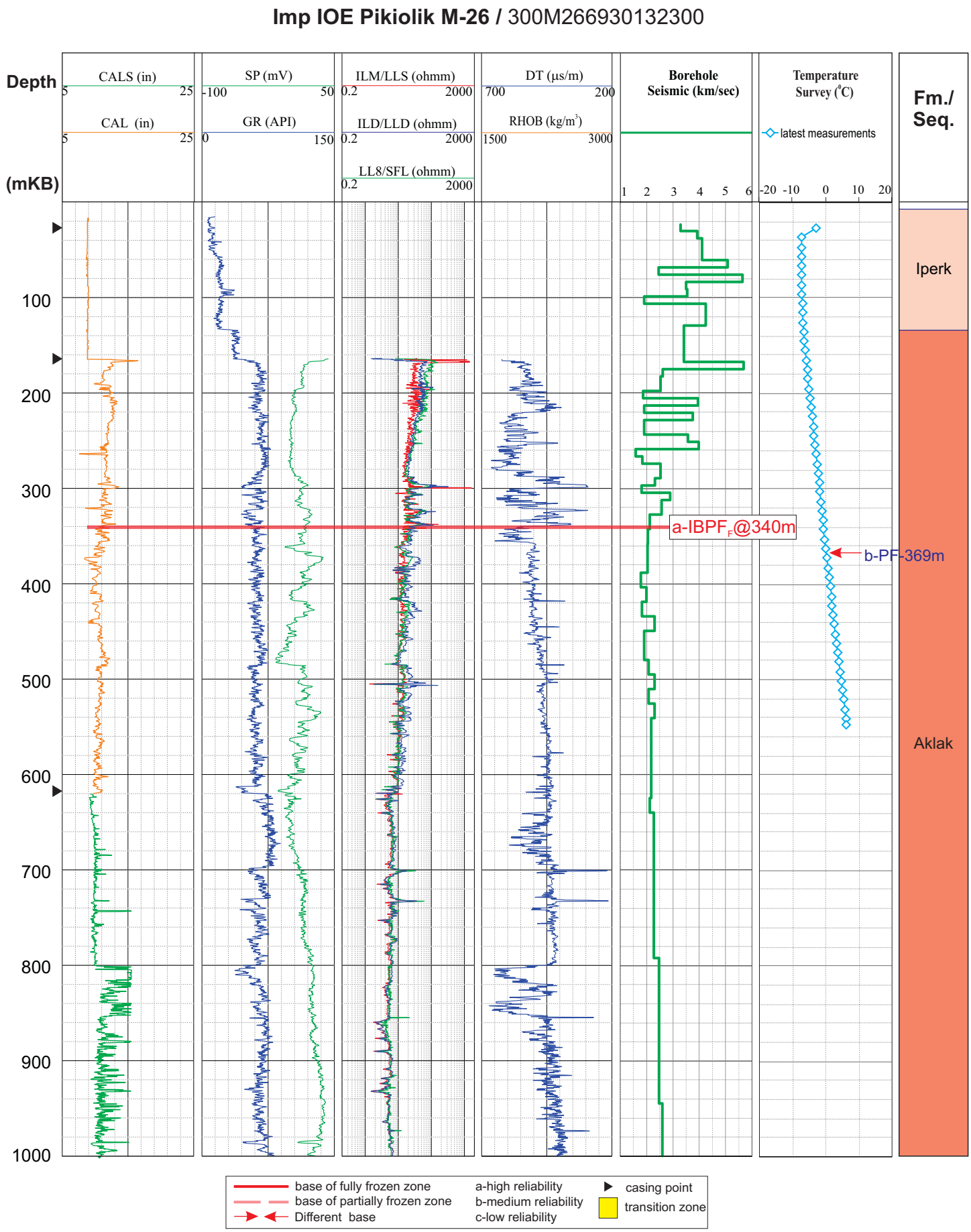

Figure 173. Determination of base of permafrost using temperature survey, well seismic survey and geophysical logs for the Pikiolik M-26 well in the Beaufort-Mackenzie Basin.

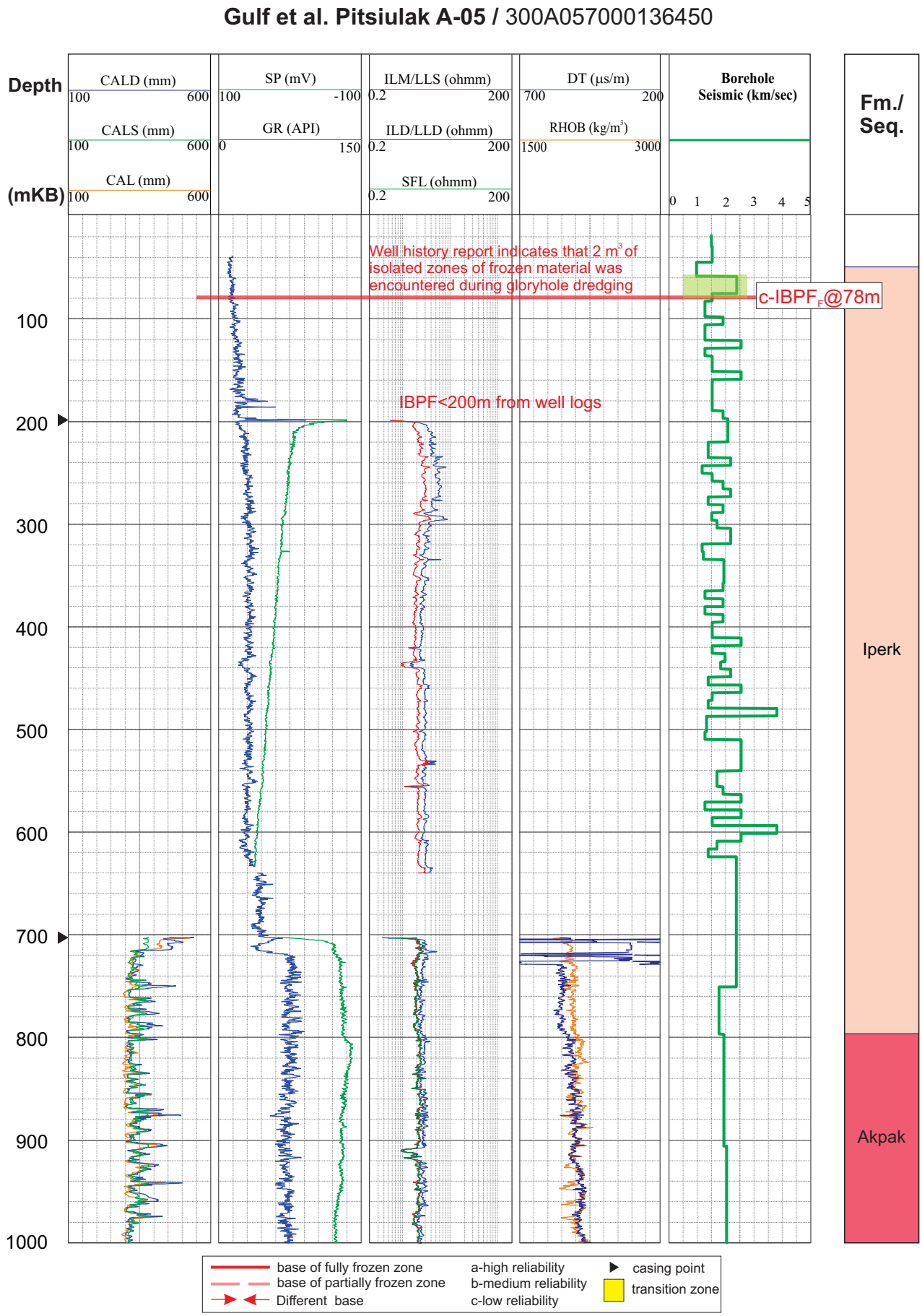

Figure 174. Well history report indicates that firm to stiff fissured silty clay occur at a depth of 51 m (below sea level), and isolated zones of frozen material were encounterred during gloryhole dredging. A possible maximum depth to base of permafrost is about 78 m, where anomaly also shown in well seismic survey, for the Pitsiulak A-05 well in the Beaufort-Mackenzie Basin.

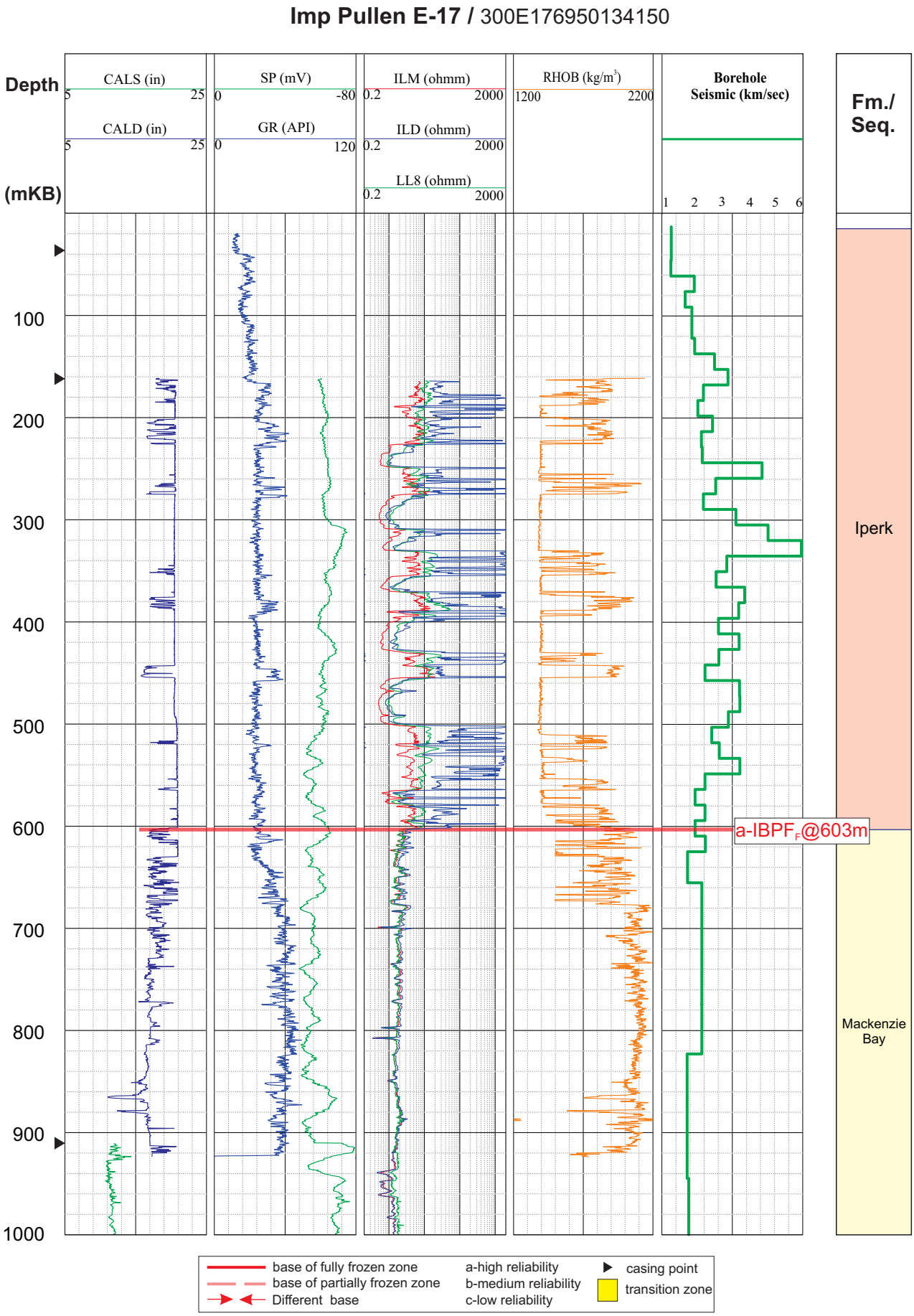

Figure 175. Determination of base of permafrost using well seismic survey and geophysical logs for the Pullen E-17 well in the Beaufort-Mackenzie Basin.

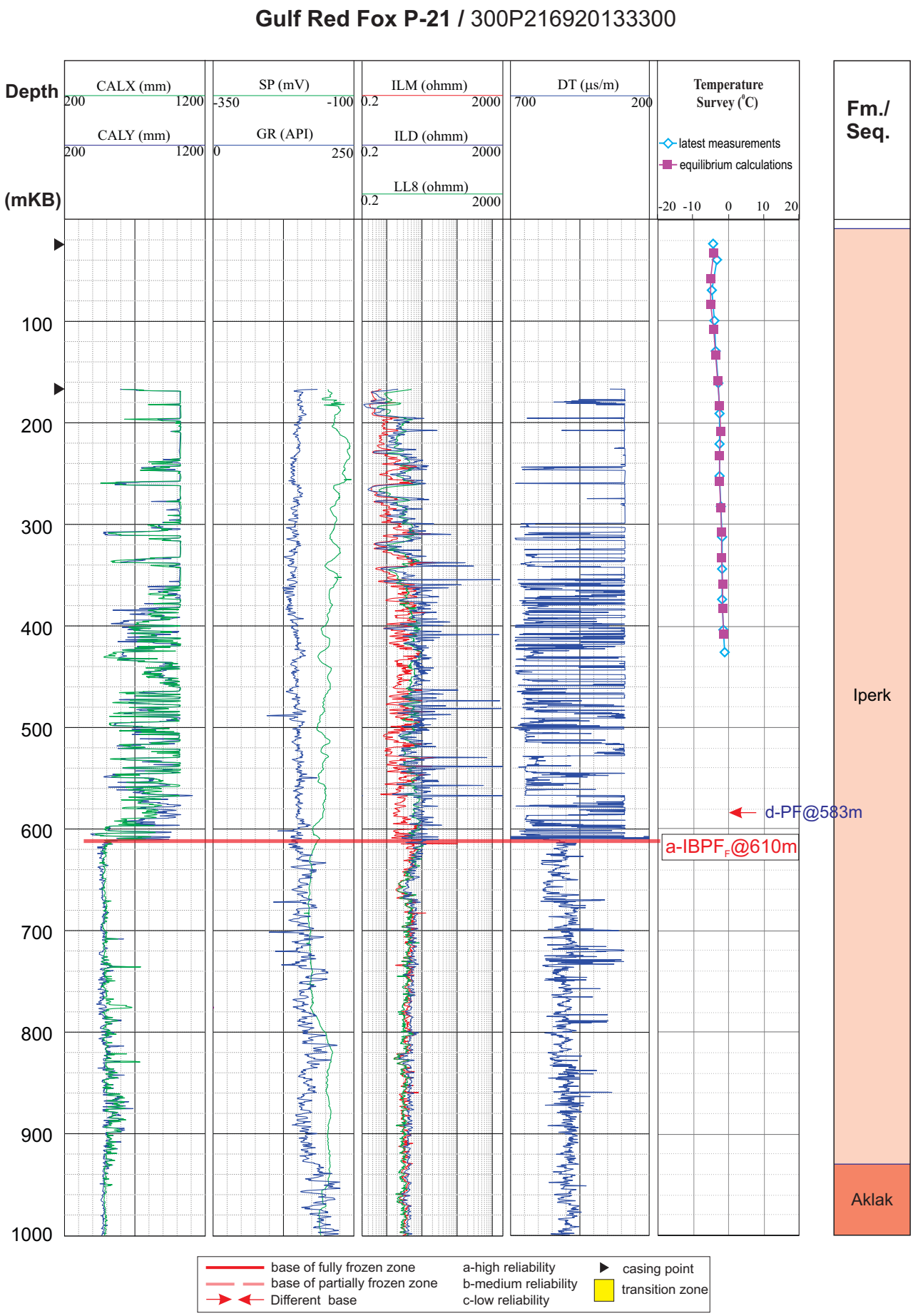

Figure 176. Determination of base of permafrost using temperature survey and geophysical logs for the Red Fox P-21 well in the Beaufort-Mackenzie Basin.

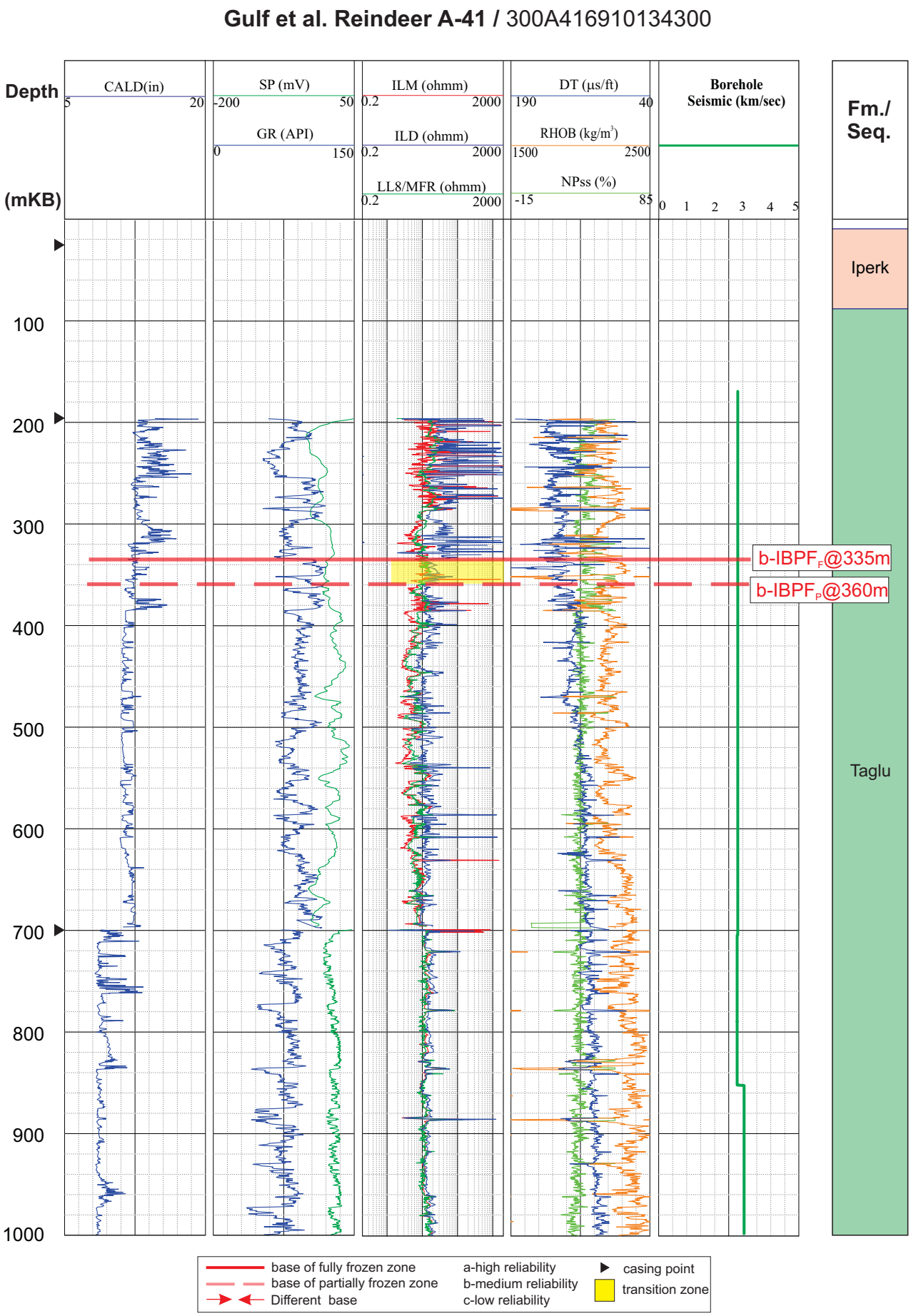

Figure 177. Determination of base of permafrost using well seismic survey and geophysical logs for the Reindeer A-41 well in the Beaufort-Mackenzie Basin.

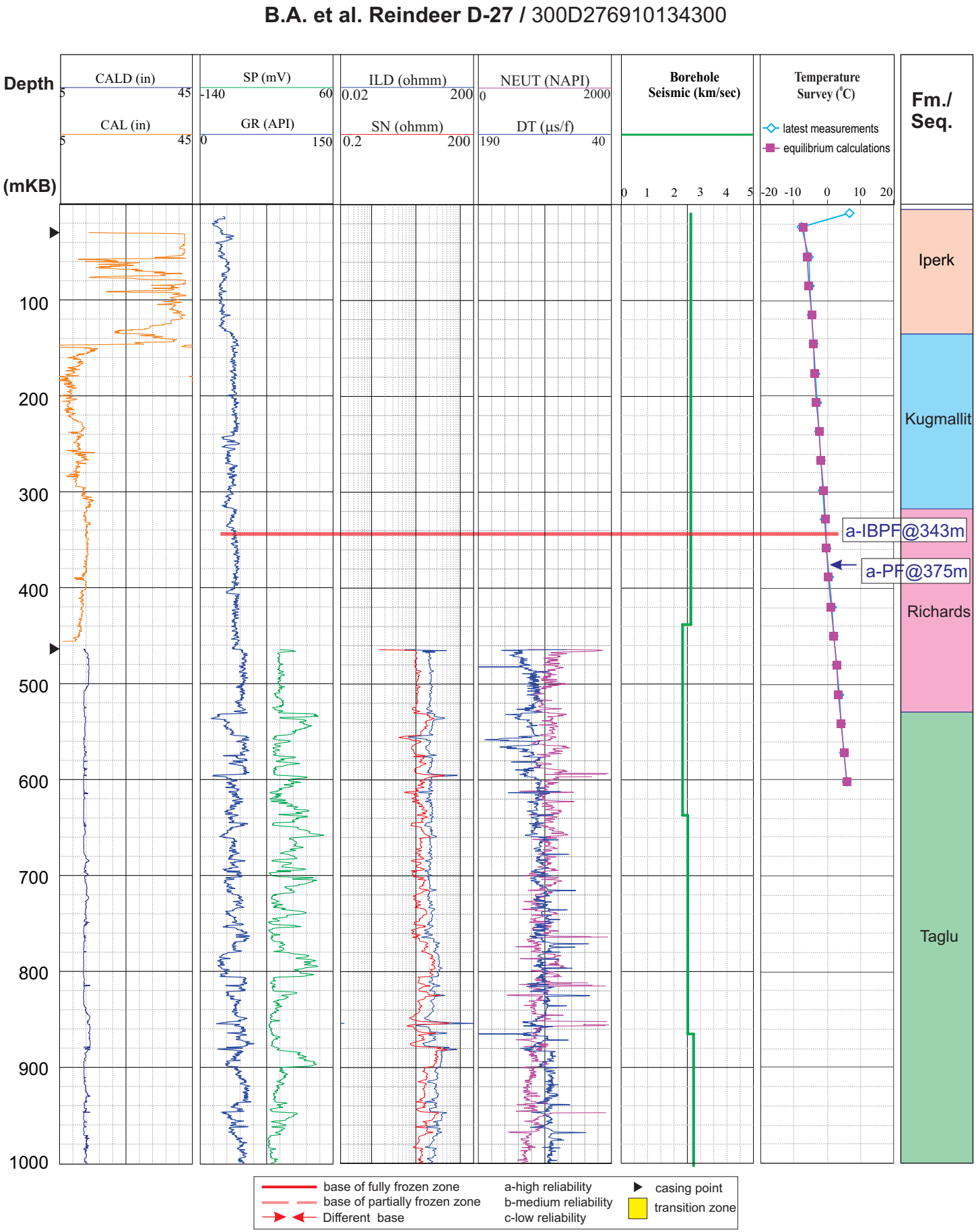

Figure 178. Determination of base of permafrost using temperature survey, well seismic survey and geophysical logs for the Reindeer D-27 well in the Beaufort-Mackenzie Basin.

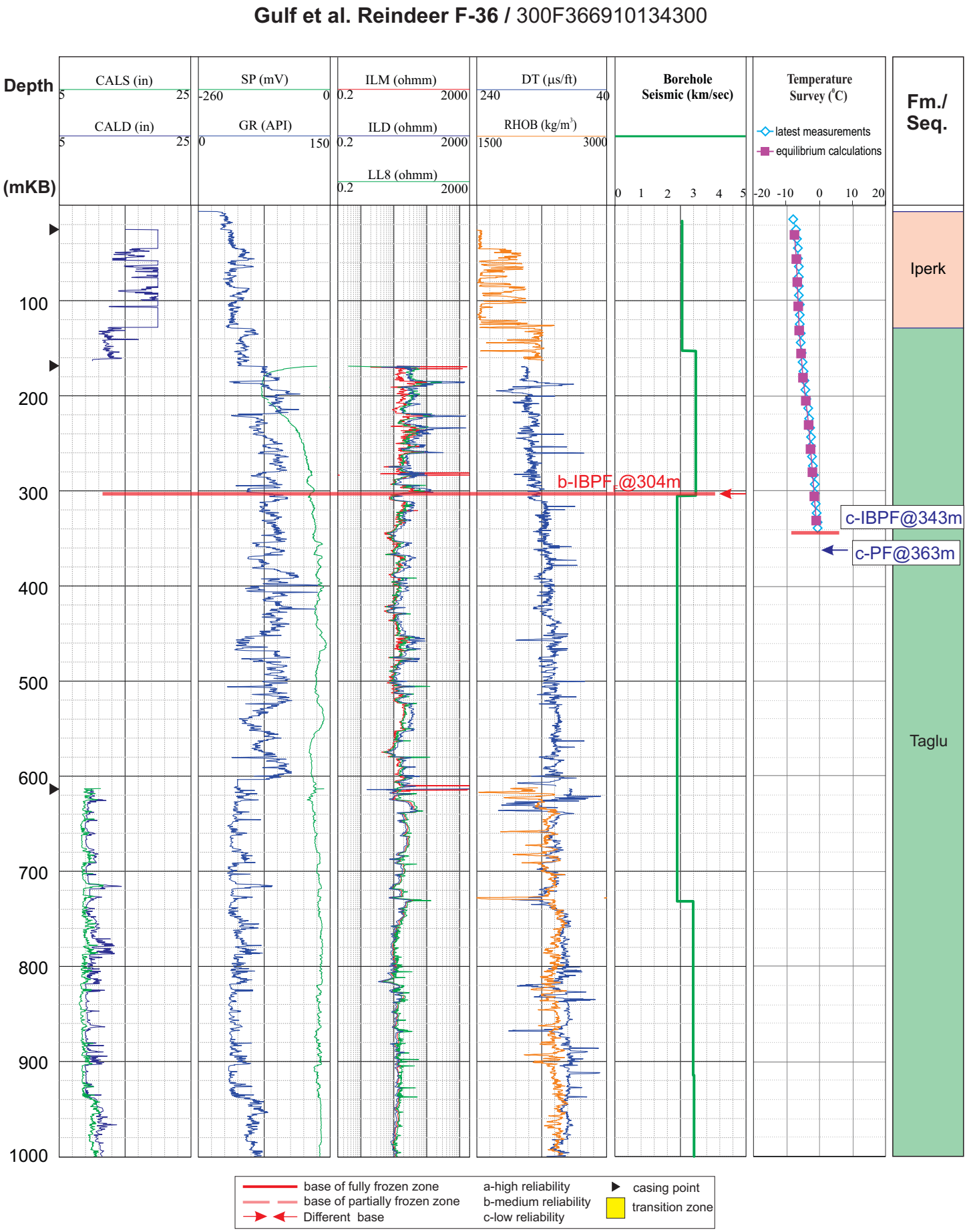

Figure 179. Determination of base of permafrost using temperature survey, well seismic survey and geophysical logs for the Reindeer F-36 well in the Beaufort-Mackenzie Basin.

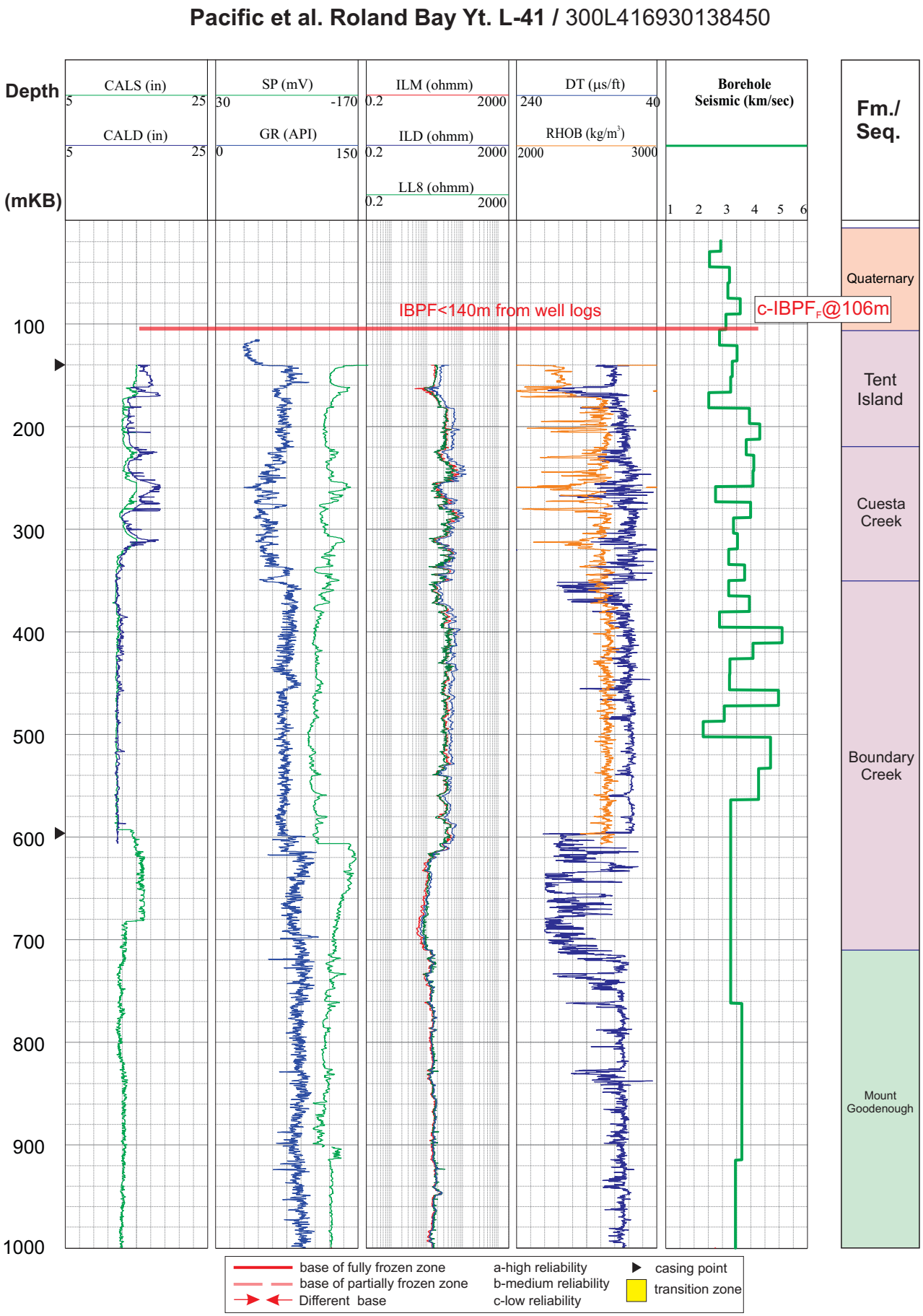

Figure 180. Log suite and well seismic survey for shallow interval (≤1000m) for the Roland Bay YT. L-41 well in the Beaufort-Mackenzie. The base of permafrost is determined from well seismic survey and lithology.

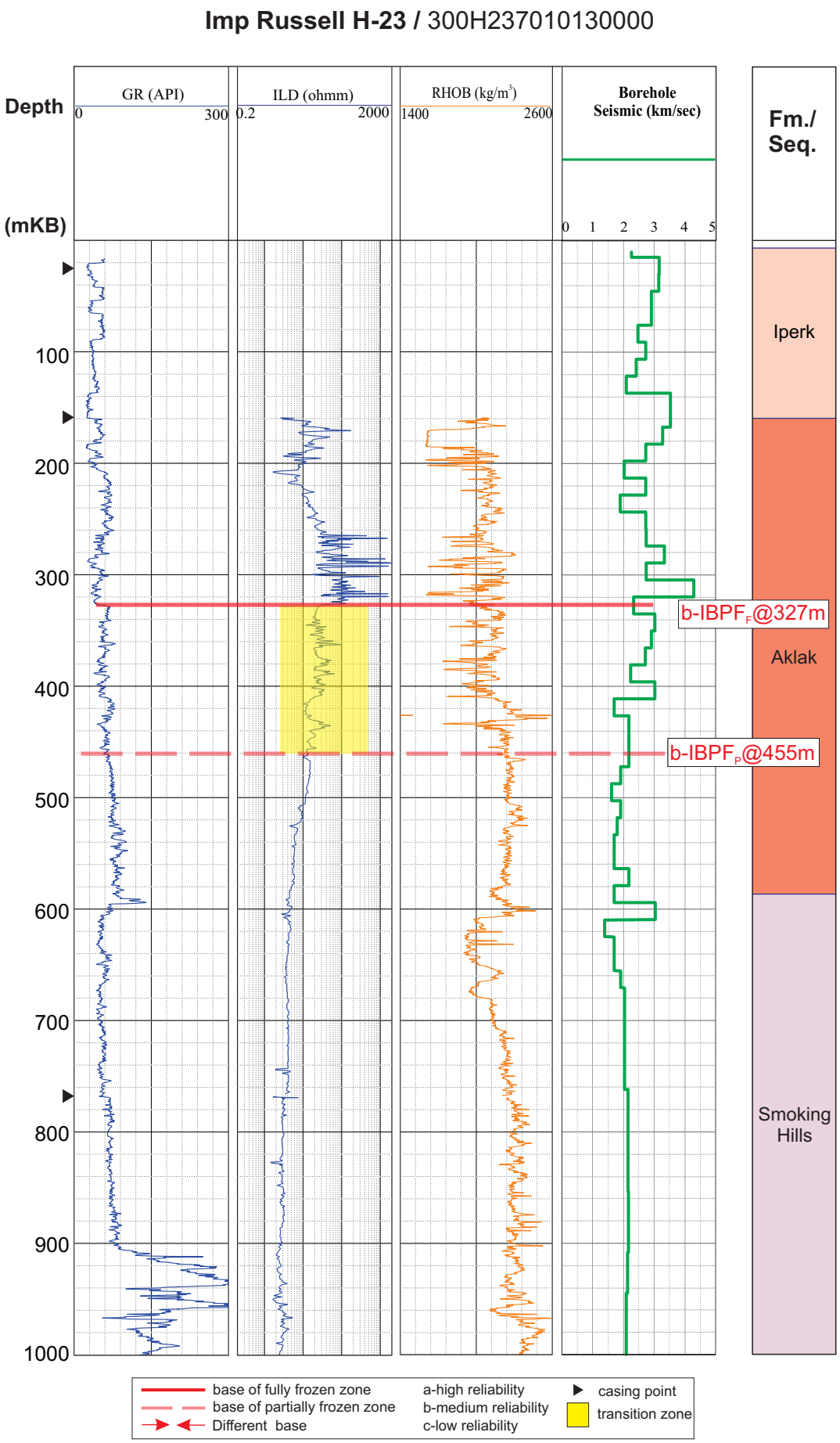

Figure 181. Determination of base of permafrost using well seismic survey and geophysical logs for the Russell H-23 well in the Beaufort-Mackenzie Basin.

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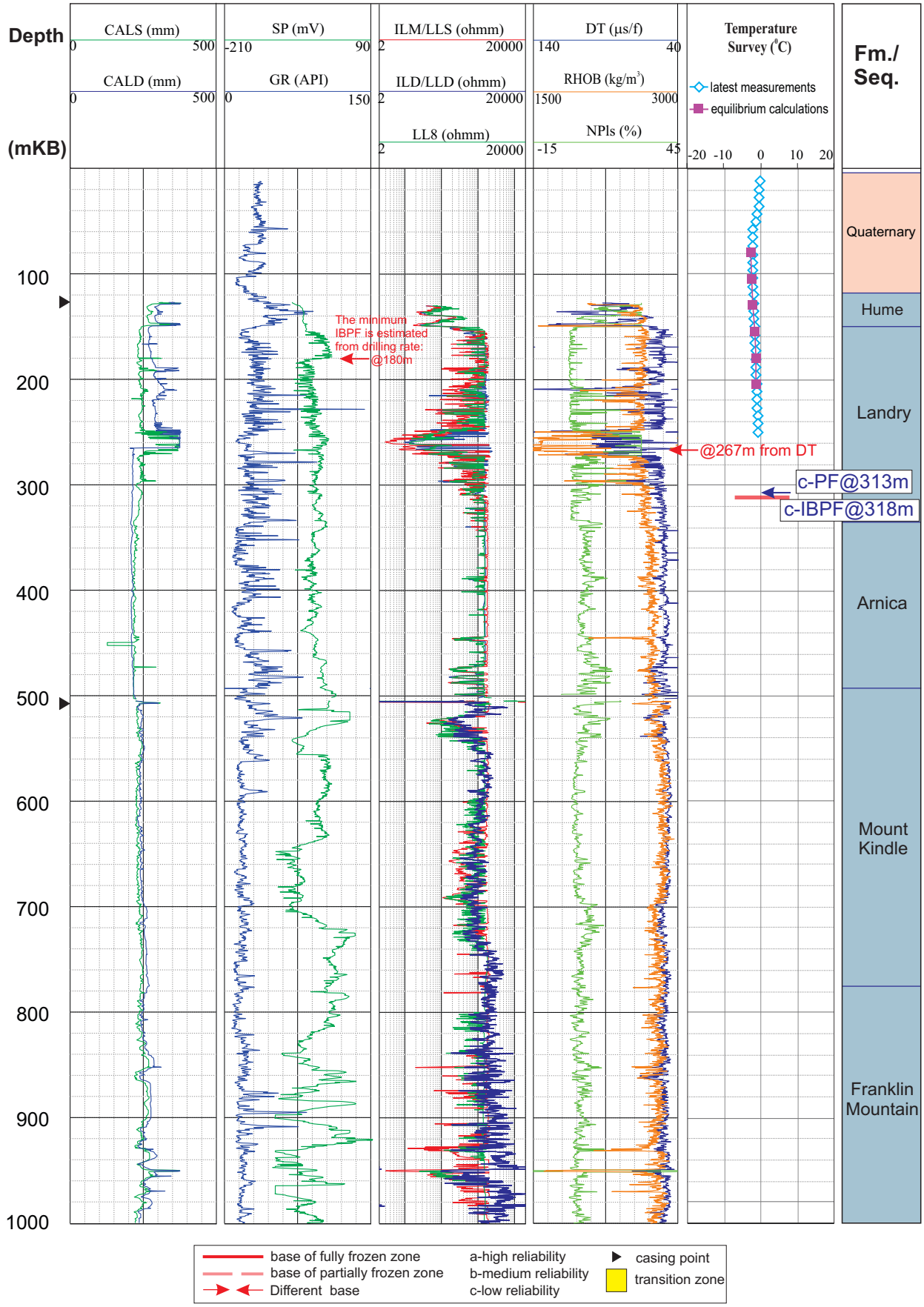

Figure 182. Base of permafrost is estimated from temperature survey for Sadene D-02 well in the Beaufort-Mackenzie Basin.

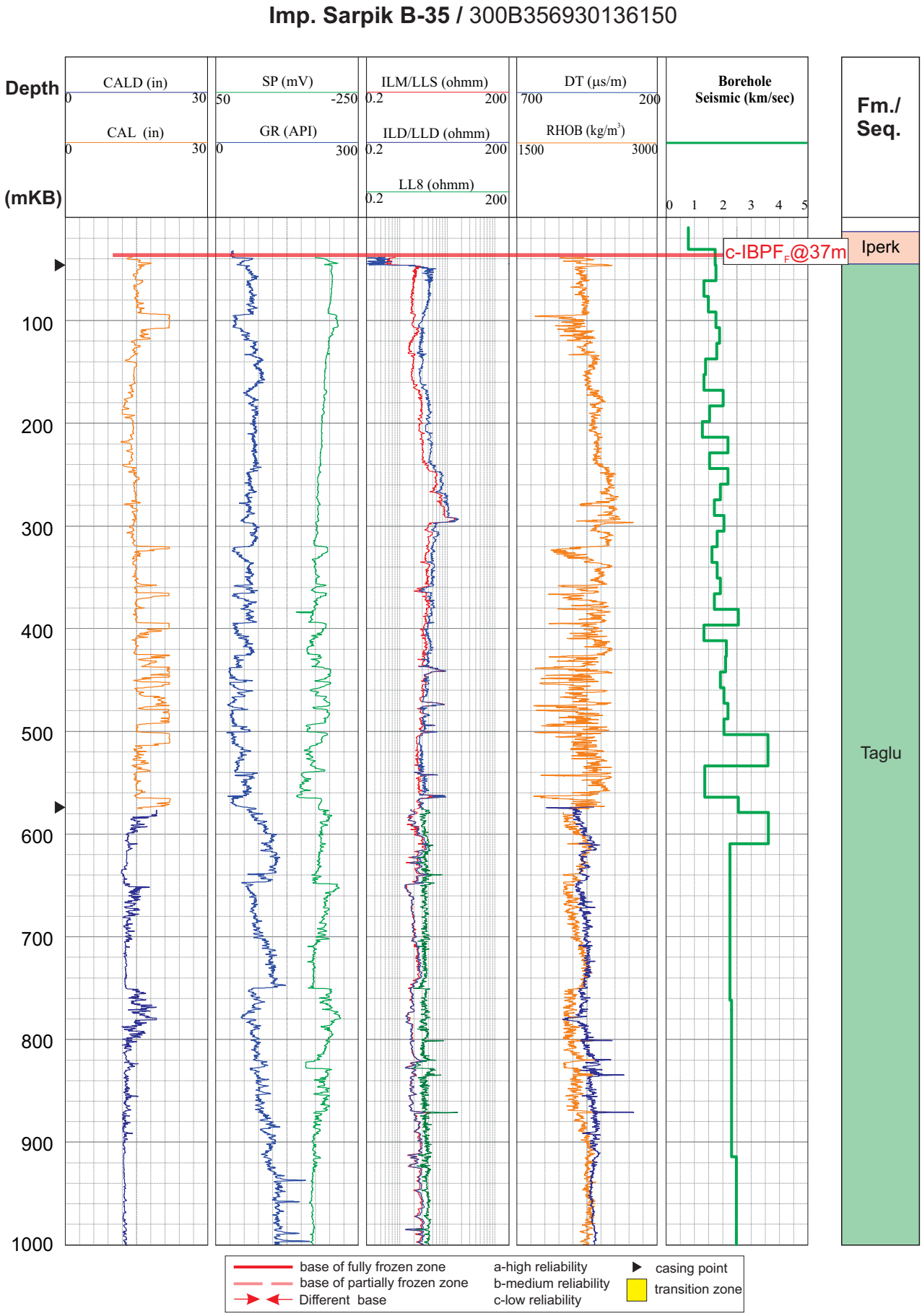

Figure 183. Log suite and well seismic survey data for the shallow interval (≤1000m) for the Sarpik B-35 well, Beaufort-Mackenzie Basin. Base of permafrost is estimated from well seismic and lithology.

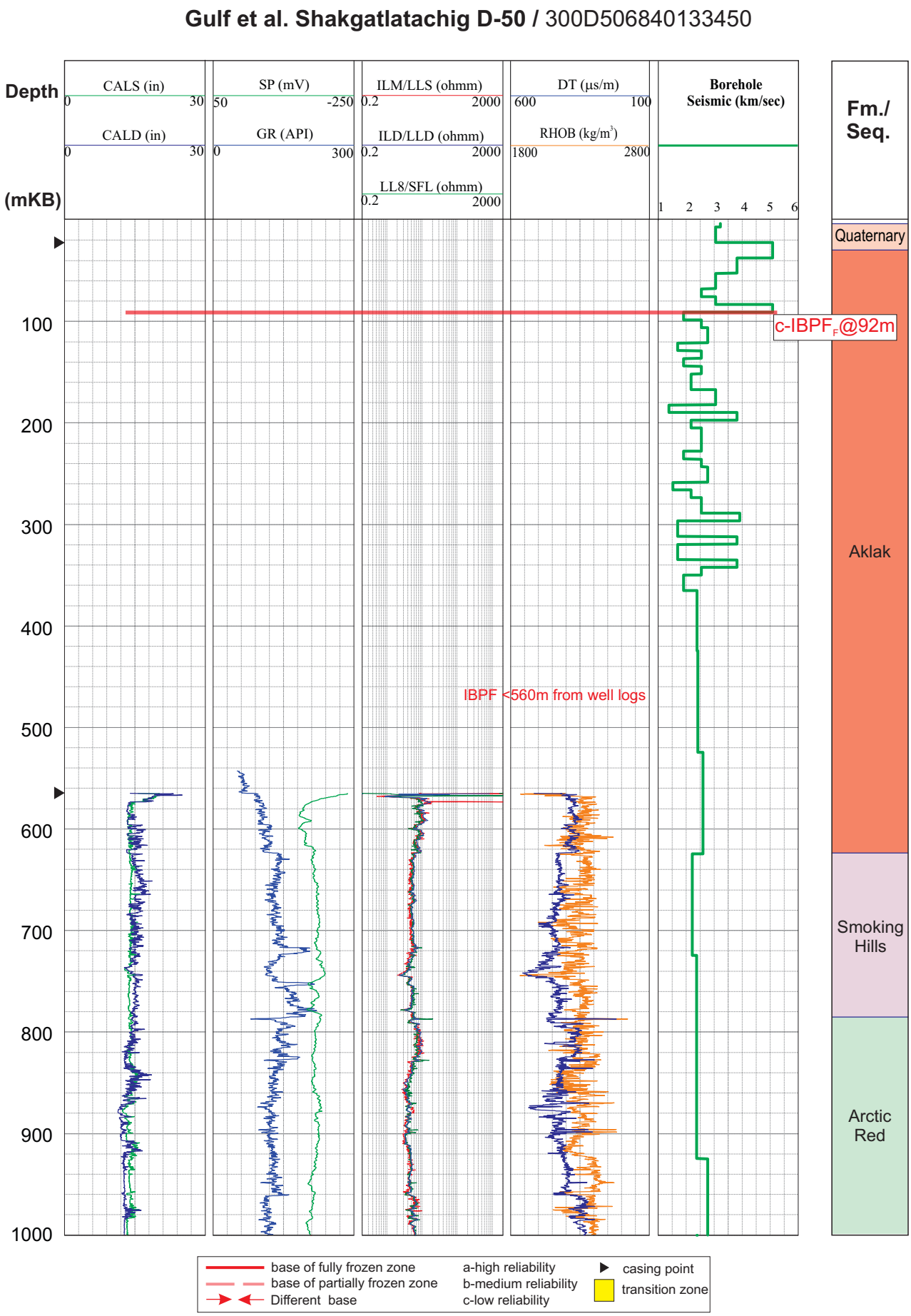

Figure 184. The base of permafrost is estimated from well seismic survey for the Shakgatlatachig D-50 well in the Beaufort-Mackenzie Basin.

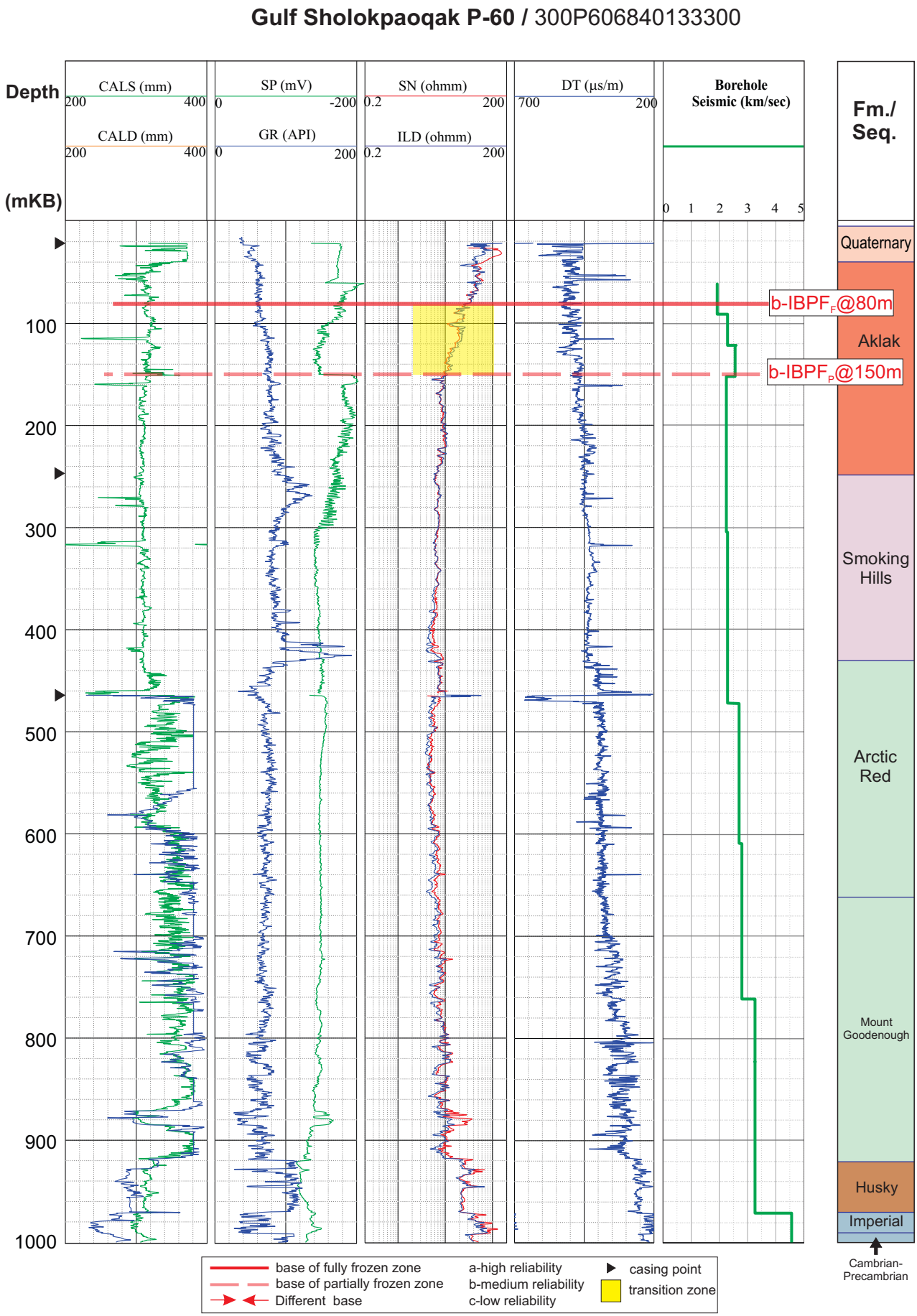

Figure 185. Determination of base of permafrost using well seismic survey and geophysical logs for the Sholokpaoqak O-60 well in the Beaufort-Mackenzie Basin.

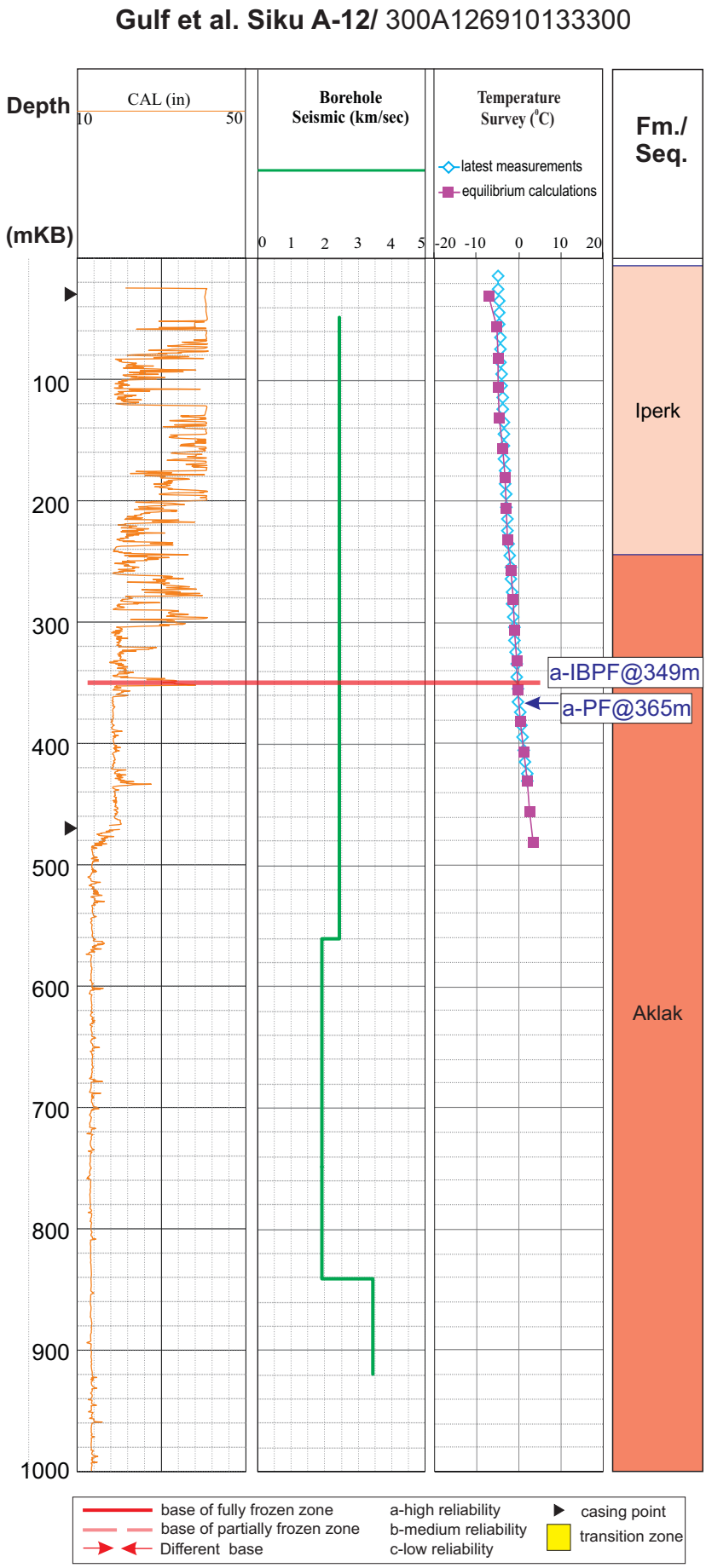

Figure 186. Determination of base of permafrost using temperature survey, well seismic survey and geophysical logs for the Siku A-12 well in the Beaufort-Mackenzie Basin.

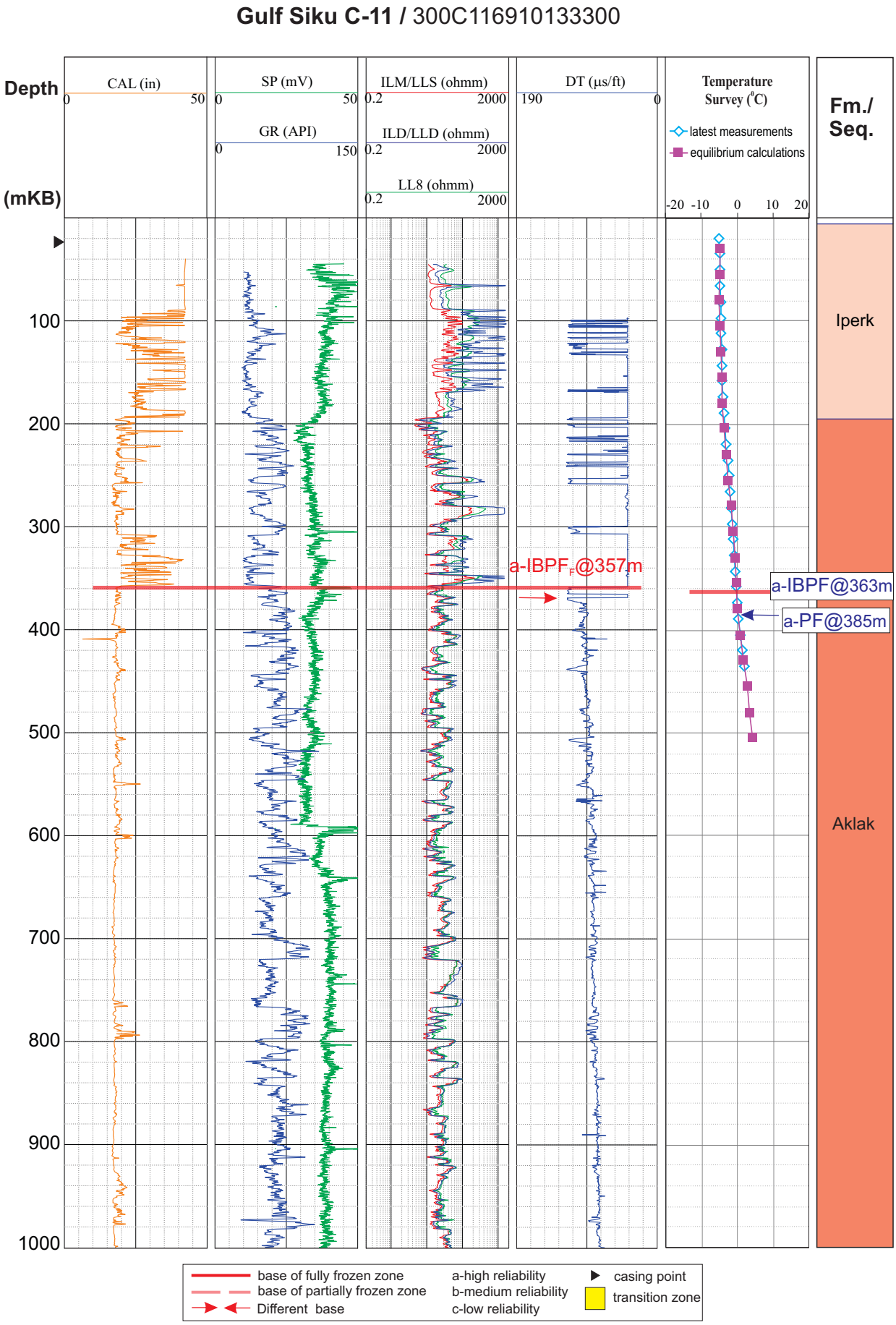

Figure 187. Determination of base of permafrost using temperature survey and geophysical logs for the Siku C-11 well in the Beaufort-Mackenzie Basin.

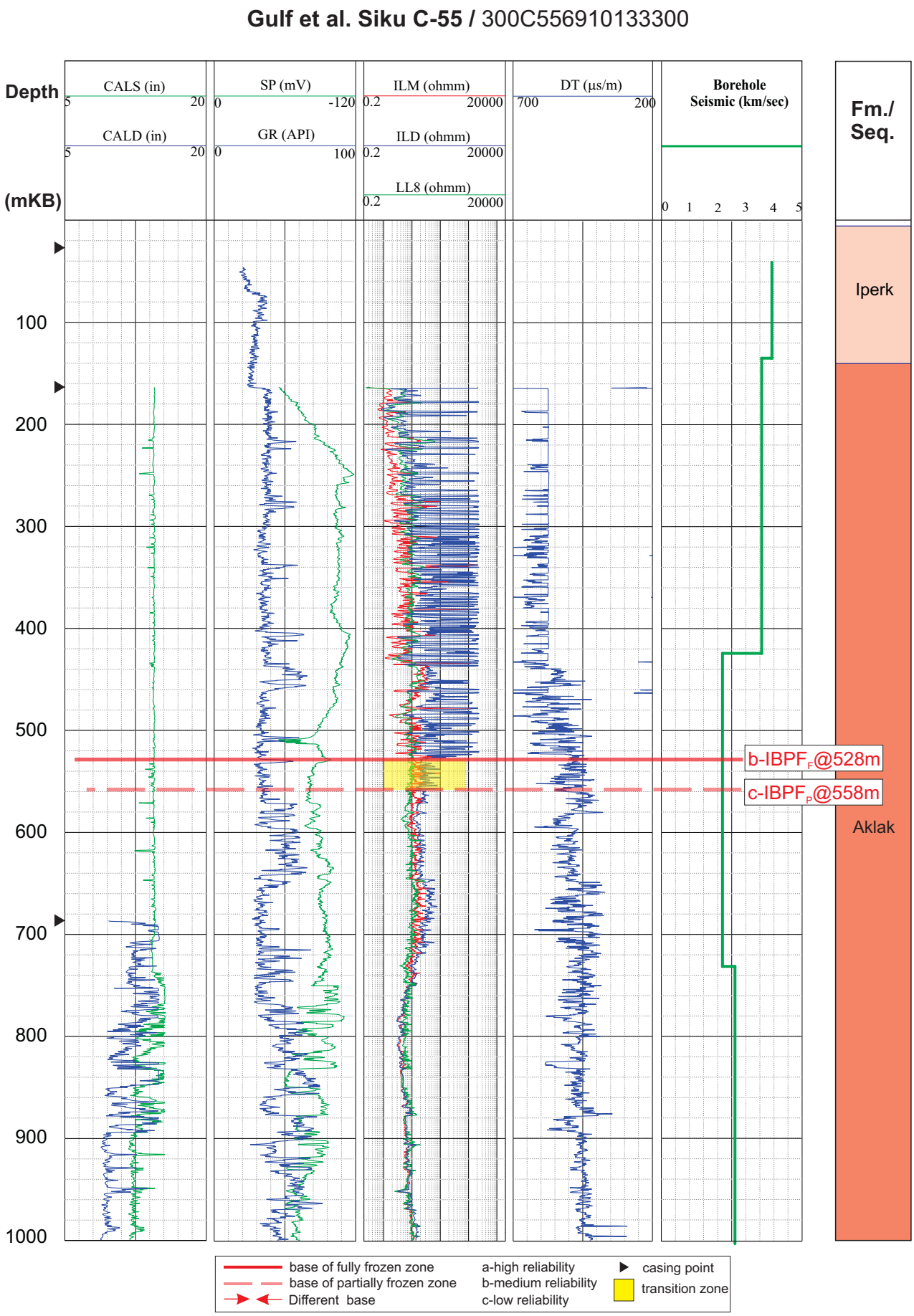

Figure 188. Determination of base of permafrost using well seismic survey and geophysical logs for the Siku C-55 well in the Beaufort-Mackenzie Basin.

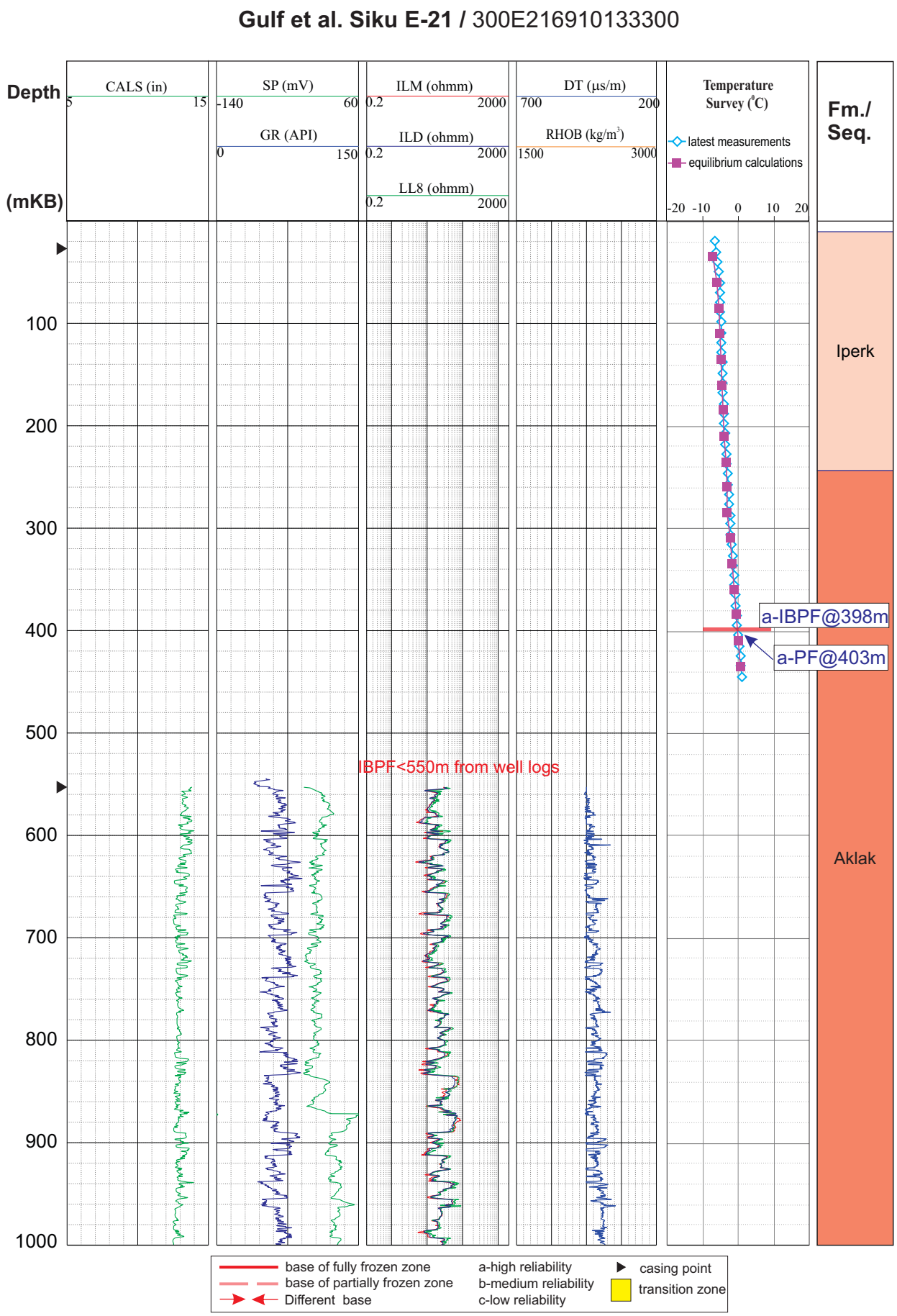

Figure 189. The base of permafrost is determined by temperature survey for the Siku E-21 well in the Beaufort-Mackenzie Basin.

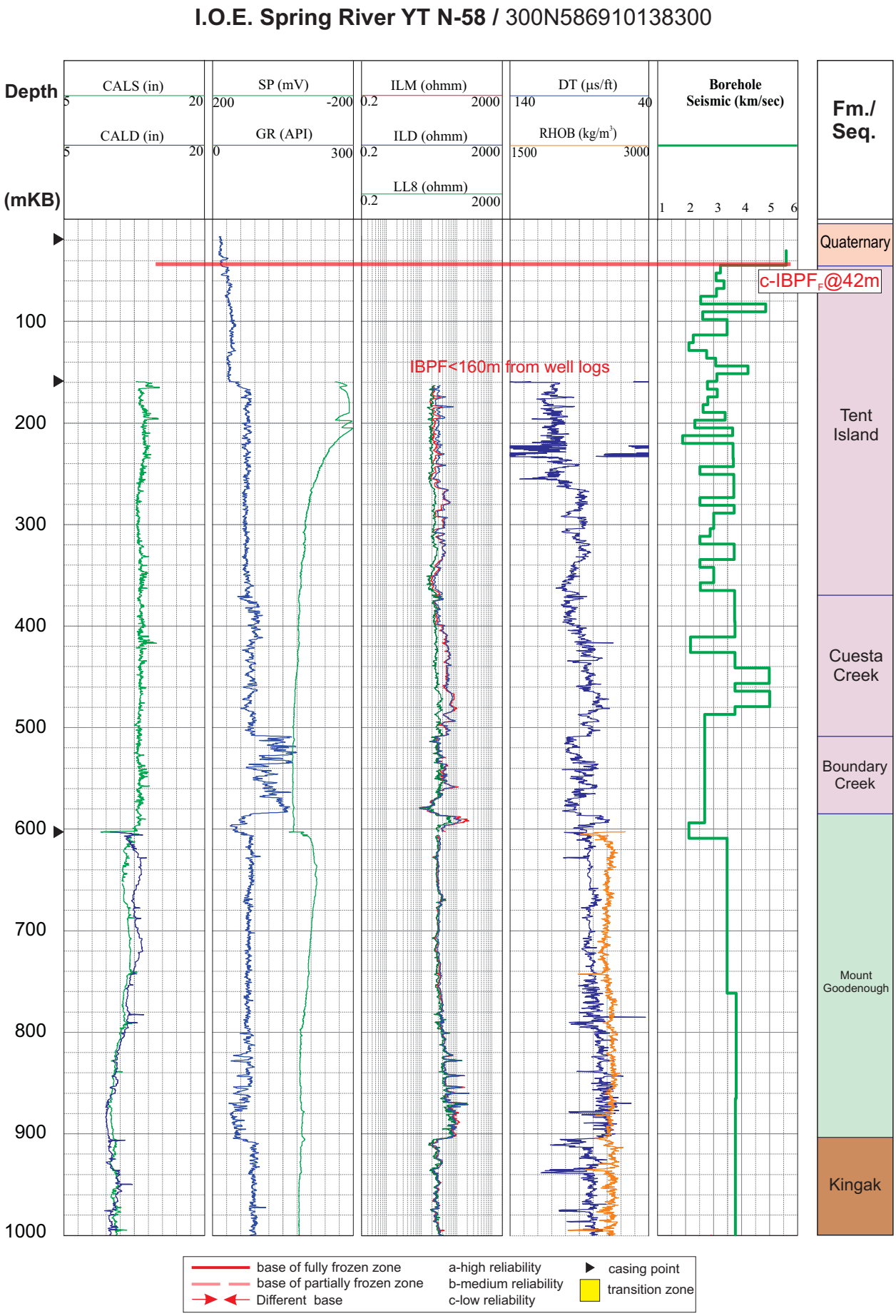

Figure 190. The base of permafrost is estimated from well seismic survey for the Spring River YT N-58 well in the Beaufort-Mackenzie Basin.