

STUDY OF TECHNOGENIC INFLUENCE ON ACOUSTIC NOISE IN WELLS

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Abstract. In summer 2014, we in collaboration with the Institute of Applied Physics RAS carried out field studies of possible influence of an overhead high-voltage line on the measurement results of acoustic noise on a depth of 508 m in a well. Using the experimental results, we concluded that electromagnetic radiation of 50 Hz frequency can be ignored at a distance less than 180 meters. The seismic signal amplitude of the same frequency is comparable with the background level in the well.

Keywords: well, acoustic noise, technogenic influence, overhead high-voltage line.