

Can strain observation be possible in casing borehole ?

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We investigated if borehole strainmeters can observe crustal strain in not baked boreholes but cased boreholes. We made a three meter depth borehole in the observation vault near our institute. Iron pipes were inserted into the borehole and cemented to surrounded rock by cement milk. Then borehole strainmeter was fixed to the casing pipe by using expansion cement. Data observed by the strainmeter were accumulated and analyzed.

The strainmeter recorded earth tides, strain seismograms ,strain variations by water level change and so on.
More advanced results will be reported.