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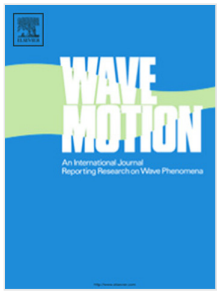

Theoretical simulations of wave field variation excited by a monopole within collar for acoustic logging while drilling

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Highlights

- Dispersion of collar waves can be influenced by the formation properties.
- Formation P waves are stronger in the collar than those near the borehole wall.
- Two types of collar waves in acoustic logging while drilling are confirmed.
- The indirect collar wave is contributed by reflection from the borehole wall.
- The borehole should not be ignored during simulating or testing tool performance.

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