

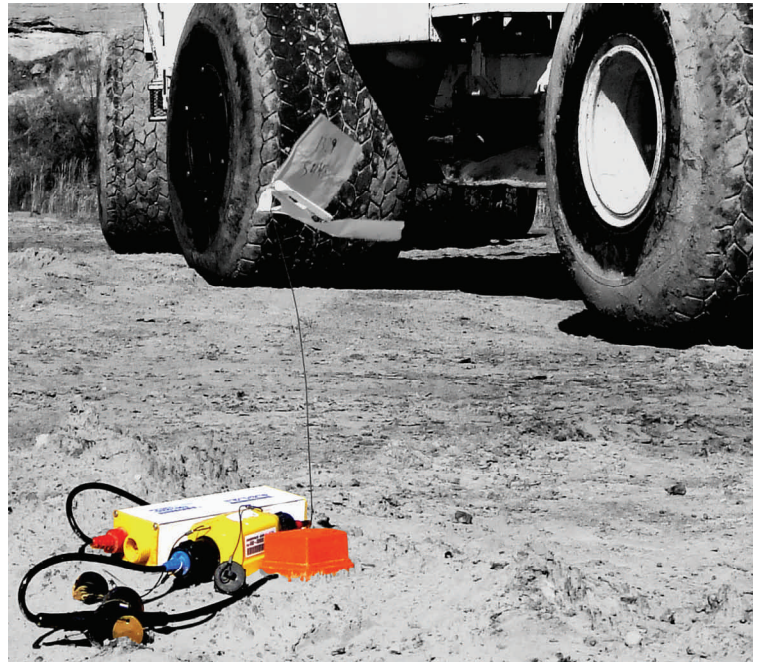
# Geospace Seismic Recorder (GSR)

## Advantages of Autonomous Nodes Over Cable Systems

In 2009, based on field tests, bp issued the following points comparing nodal seismic systems with conventional cabled seismic systems:



- **Weight:** *Recent BP field tests showed 3 times as many crew were required to deploy seismic cables versus seismic nodes in desert*
- **Environmental Impact:** *nodes have less impact as they are not all connected by a cable, therefore simple to lay out around & under obstructions.*
- **Better Subsurface Sampling & Redundancy:** *A node can be placed anywhere. Cabled systems often have coverage holes in areas with many obstructions (mountains, jungle, populated areas)*
- **Better Production Rates:** *Often up to 50% of non-productive time during a land seismic shoot can be caused by trouble-shooting cables. A recent BP field test showed 97% reliability of the nodes.*
- **Survey Size:** *As nodes become cheaper, one could potentially lay out 100's of square kilometers at one time. Cables are limited by availability & transmission losses.*
- **Safety:** *Less weight & equipment means fewer people in the field handling less equipment for a shorter time*



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