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seismic survey method of investigating subterranean structure particularly as related to exploration for petroleum natural gas and mineral deposits

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seismic methods are employed in mineral exploration to characterize the subsurface and identify potential ore bodies the technique helps in mapping geological structures determining rock types and assessing the composition of the earth s crust

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the three phases of the seismic exploration project data acquisition processing and interpretation essence of the two seismic techniques reflection a and refraction b dependence of the

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seismic exploration of the earth has a long history dating back almost 200 years working by generating

propagating waves of alternating pressure that cause localized regions of compression and rarefaction the seismic method is dependent upon the elastic properties of the host medium

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exploration seismology deals with the use of artificially generated elastic waves to locate mineral deposits including hydrocarbons ores water geothermal reservoirs etc archaeological sites and to obtain geological information for engineering

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the main objective of the seismic exploration method is to map the structure of subsurface formations to infer the existence of possible petroleum traps in addition the method can be used to identify lithology rock type fluid content oil gas or water and fine structures fractures

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today seismic exploration encompasses more than just the search for resources seismic technology is used in the search for waste disposal sites in determining the stability of the ground under proposed industrial facilities and even in archaeological investigations

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seismic tomography to locate earthquakes and assist in seismology reflection seismology and seismic refraction to map the surface structure of a region geodesy and gravity techniques including gravity gradiometry magnetic techniques including aeromagnetic surveys to map magnetic anomalies

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this chapter reviews the fundamental concepts employed in seismic exploration in general two types of seismic method reflection and refraction are common with reflection seismic the most widely used technique in hydrocarbon exploration this technique provides an image of the subsurface in two or three dimensions 2d or 3d fig 17 1

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today seismic exploration encompasses more than just the search for resources seismic technology is used in the search for waste disposal sites in determining the stability of the ground under proposed industrial facilities and even in archaeological investigations

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reflection seismology or seismic reflection is a method of exploration geophysics that uses the principles of seismology to estimate the properties of the earth s subsurface from reflected seismic waves the method requires a controlled seismic source of energy such as dynamite or tovox blast a specialized air gun or a seismic vibrator

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applications of seismic exploration to groundwater environmental and reservoir geophysics are also included the book is designed to give a comprehensive up to date picture of the applications of seismology

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the journal of seismic exploration is an international medium for the publication of research in seismic modeling processing inversion interpretation field techniques borehole techniques tomography instrumentation and software policy short publication time high scientific level easily readable and concise papers are the main objectives

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simply stated seismic methods involve estimation of the shapes and physical properties of earth s subsurface layers from the returns of sound waves that are propagated through the earth early

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seismic exploration purposes where measurements are taking place at the surface the di erent arrivals of direct waves re ected waves and refracted head waves are discussed 2 1 introduction the seismic method makes use of the properties of the velocity of sound this velocity

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june 12 2013 seismic waves the same tool used to study earthquakes are frequently used to search for oil and
natural gas deep below earth s surface these waves of energy move through the

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the reflection seismic method has been used to delineate near surface geology for the purpose of coal and
mineral exploration and engineering studies especially in recent years with increasing acceptance figure i 2a
shows a seismic section along a 500 m traverse across a bedrock valley with steep flanks

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