

SEISMIC OPERATIONS PLANNED
By Chesapeake in Candleridge
February 2, 2011

Dawson Geophysical Company has contracted with Chesapeake to conduct seismic operations throughout Fort Worth to include Candleridge. The purpose of seismic exploration is to pinpoint where reservoirs of natural gas are located deep under ground before drilling begins. Representatives of Dawson Geophysical are currently going door to door in some areas of Candleridge to obtain property owners' approval for their operations. This is a legitimate action, and we recommend you approve and sign their form.

The gas lease you signed strictly prohibits any surface use of your property. Therefore, it is necessary for Dawson Geophysical to obtain your authorization for surface use of your property. The form they ask you to sign states "hereby requests your permission to conduct a seismographic survey on behalf of Chesapeake Operating, Inc. including the right of ingress and egress, across your land" The form also says "We agree to indemnify and hold you harmless from all liability and claims." They will pay you \$25 for your approval. In essence, this gives them the authority to actually come on your property and lay a cable on top of your lawn (probably near the curb of the street) to include across the driveway. The cable will be in place for three to six weeks, probably in early summer months. The cable does not carry an electrical charge.

Due to the nature of the seismic operations, this will involve only a small percentage of Candleridge homes. They will do this in a general east/west pattern, only on one side of the street, and probably about every three or four streets. Although the schedule may change, the current planning is to conduct most of the work in June, 2011.

Seismic testing uses sound waves to create 3-D images. They use a truck (called a vibe buggy) that creates vibrations called seismic waves that travel through the earth and are reflected back to the surface. (Dawson representatives say that the vibrations are for very short periods of time and are hardly noticeable.) Each underground layer reflects these waves in different ways. Special sensors called geophones are embedded in the ground throughout the surveyed area to detect the sound waves and send the data to a seismographic recording truck. This data is then used to develop three dimensional or 3-D images of the underground formations. See www.askchesapeake.com/Barnett-Shale/Production/Pages/Seismic.aspx for more information about seismic exploration.

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