

# A LITTLE GEOPHYSICS TALK

## DOODLEBUGGING

All the underlined words from the story below are hidden in the puzzle. As you find a word in the puzzle, draw a circle around each letter in that word – as shown by the example. Use the letters that are NOT circled to fill in the mystery sentence at the bottom of the page. Hint: the uncircled letters from the puzzle are in the correct order, reading left to right from the top to the bottom of the puzzle.

Oil and gas are often found deep in the ground in layers of porous rock, with solid rock on top. How do we find such rock?

We can get some clues from seismic exploration, or doodlebugging.

Here's how it works:

A worker called a "jughustler" places geophones, or jugs, on the ground. Jugs pick up sound waves.

A special rig drills shotholes and puts dynamite in them. When the dynamite explodes, it sends out sound waves deep into the earth. They hit layers of rock and bounce back to the jugs, which are connected with wires to a recording truck.

The strength and timing of the sound waves coming back to the jugs give experts a clue about the kinds of rock hidden below the surface.

G	N	I	G	G	U	B	E	L	D	O	O	D
E	W	S	T	R	U	C	K	R	O	R	K	I
T	N	H	G	O	E	N	O	A	S	E	S	G
I	I	O	S	M	I	C	I	M	S	I	E	S
M	C	T	E	X	K	H	O	S	P	O	V	L
A	O	H	U	S	T	L	E	R	P	R	A	A
N	T	O	I	R	O	D	N	H	D	C	W	R
Y	E	L	A	W	O	I	O	S	G	I	R	J
D	D	E	Y	L	N	N	A	M	I	T	N	U
E	I	S	P	T	E	S	R	E	Y	A	L	G
S	A	X	R	S	E	A	L	C	H	A	R	S
G	E	X	P	L	O	R	A	T	I	O	N	E

Mystery sentence goes here:



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