

HOW TO FAKE A MOON LANDING




Exposing the Myths
of Science Denial




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Introduction by Andrew C. Revkin


FRACKING IS A SLANG TERM FOR HYDRAULIC FRACTURING,




THE PROCEDURE BY WHICH GAS AND OIL CAN BE EXTRACTED FROM ROCK FORMATIONS.



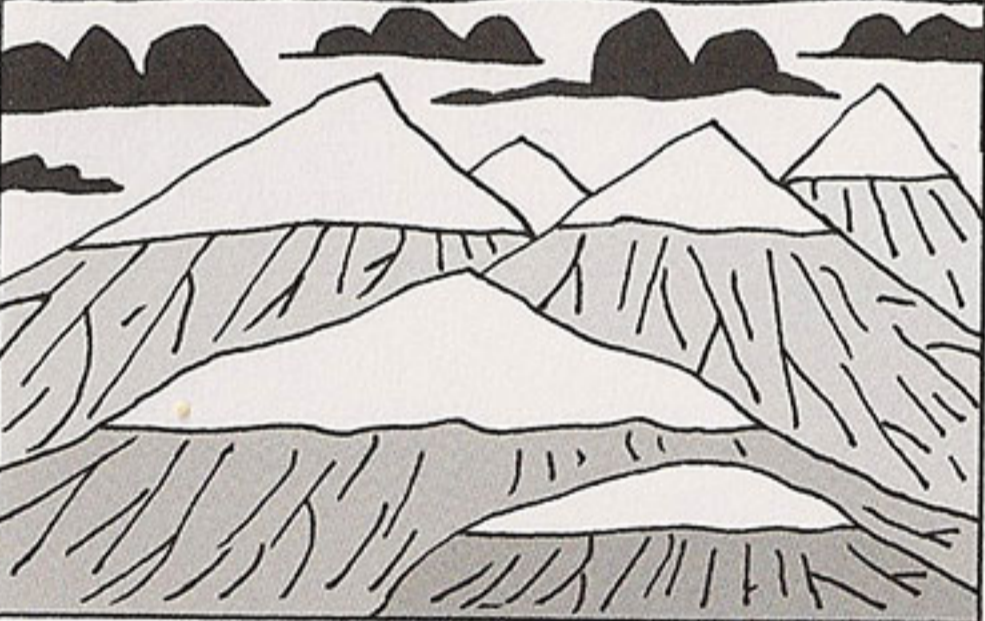
THE SHALE DEPOSITS THAT CONTAIN THE GAS ARE OFTEN A MILE OR MORE BELOW THE SURFACE.



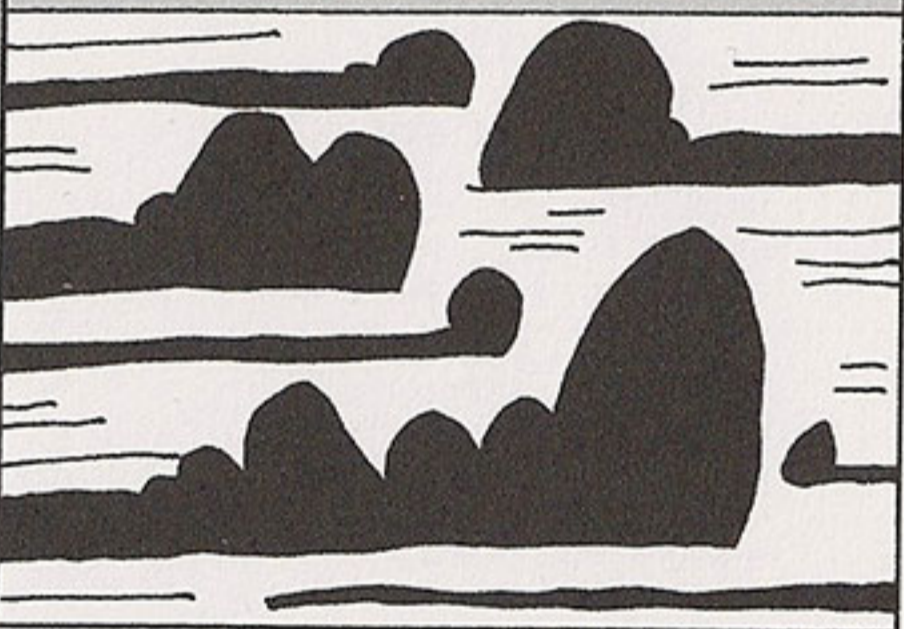
THIS IS WAY BELOW ANY UNDERGROUND SOURCE OF DRINKING WATER.



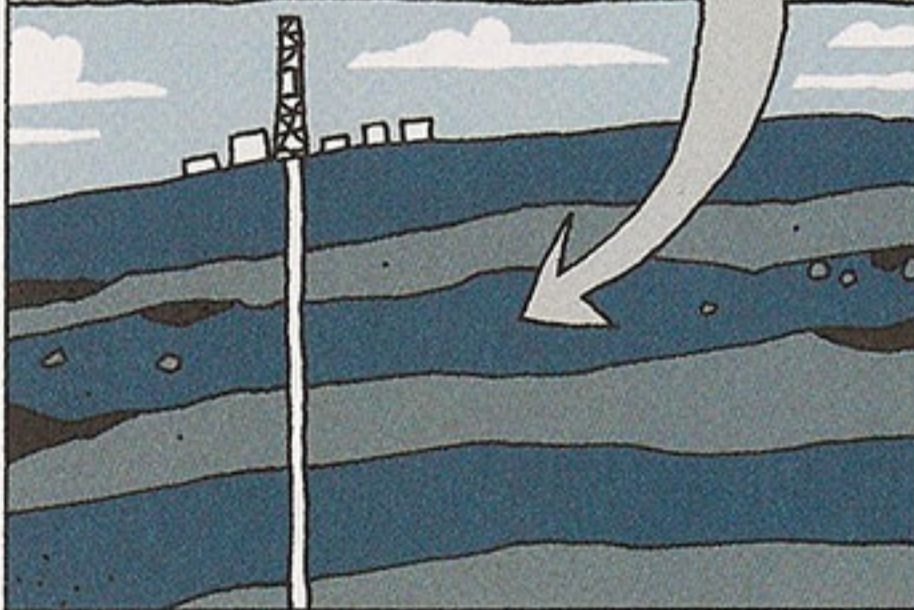
FLUID IS BLASTED AT HIGH PRESSURE INTO CRACKS IN THE ROCK, CAUSING FURTHER FRACTURING.



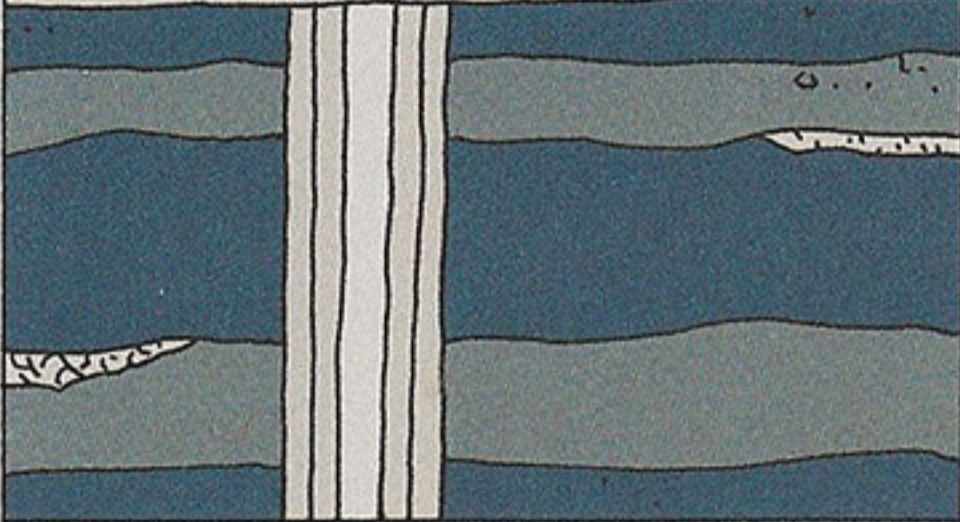
THESE LARGER FISSURES ALLOW MORE OIL AND GAS OUT OF THE WELL BORE



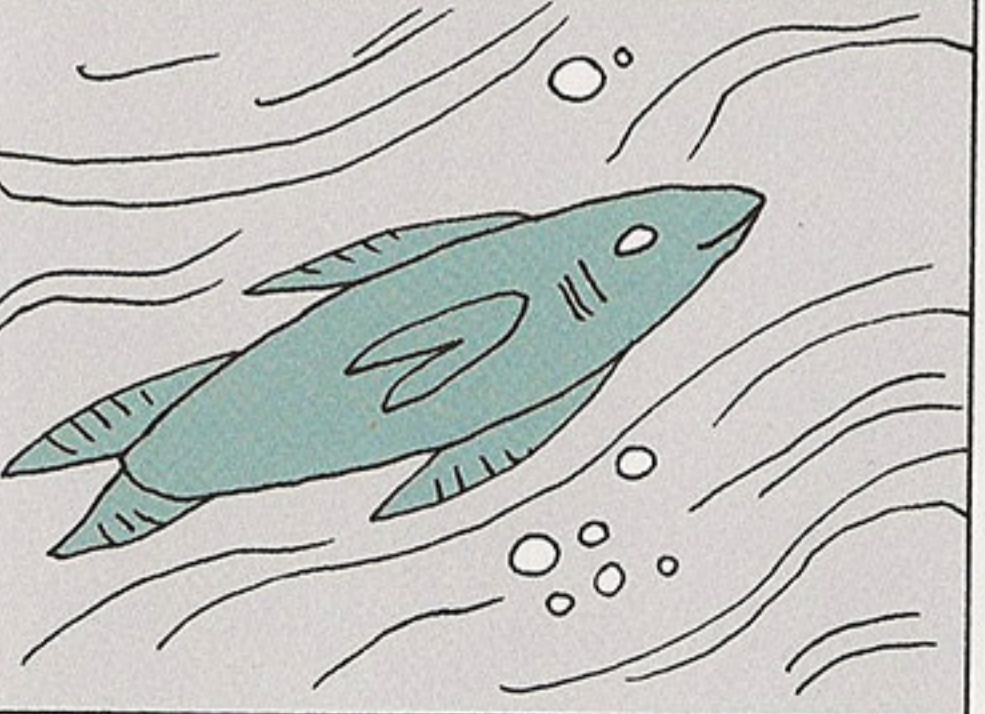
SEVERAL LAYERS OF STEEL CASING ENCLOSE THE WELL BORE



AND THE EMPTY SPACES BETWEEN ARE SEALED WITH CEMENT PUMPED DOWN FROM ABOVE.



FROM WHERE IT CAN BE REMOVED.



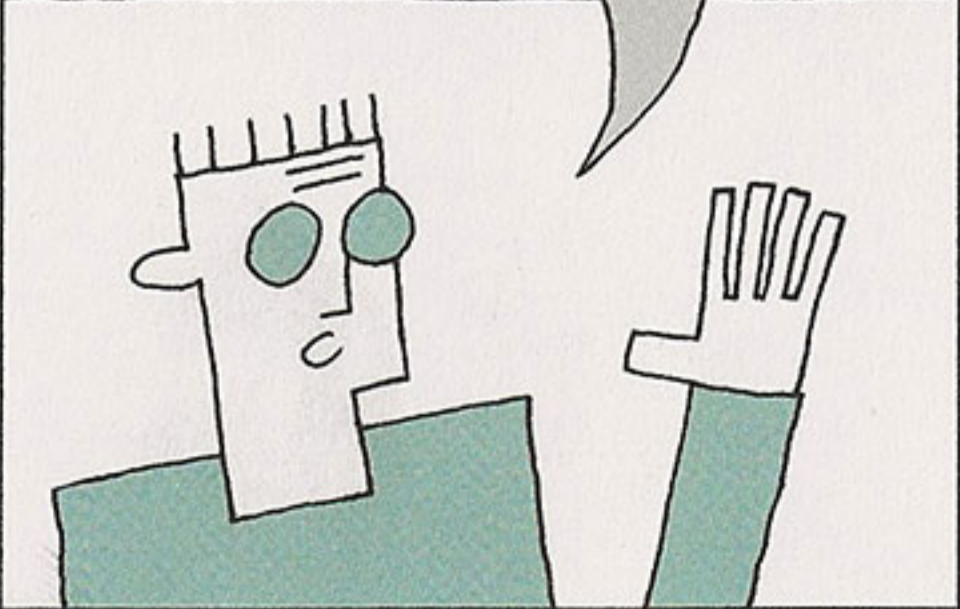
SOUNDS CLEAN AND EFFICIENT, DOESN'T IT?

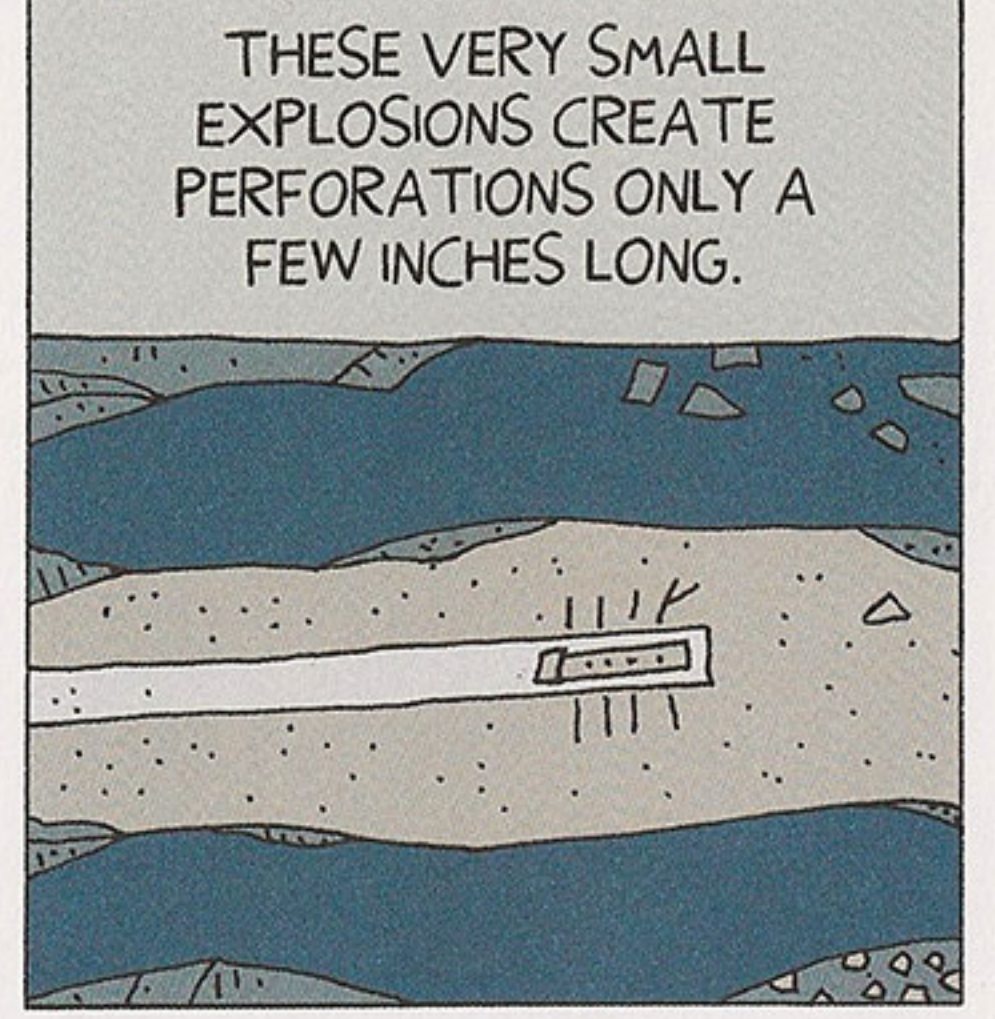
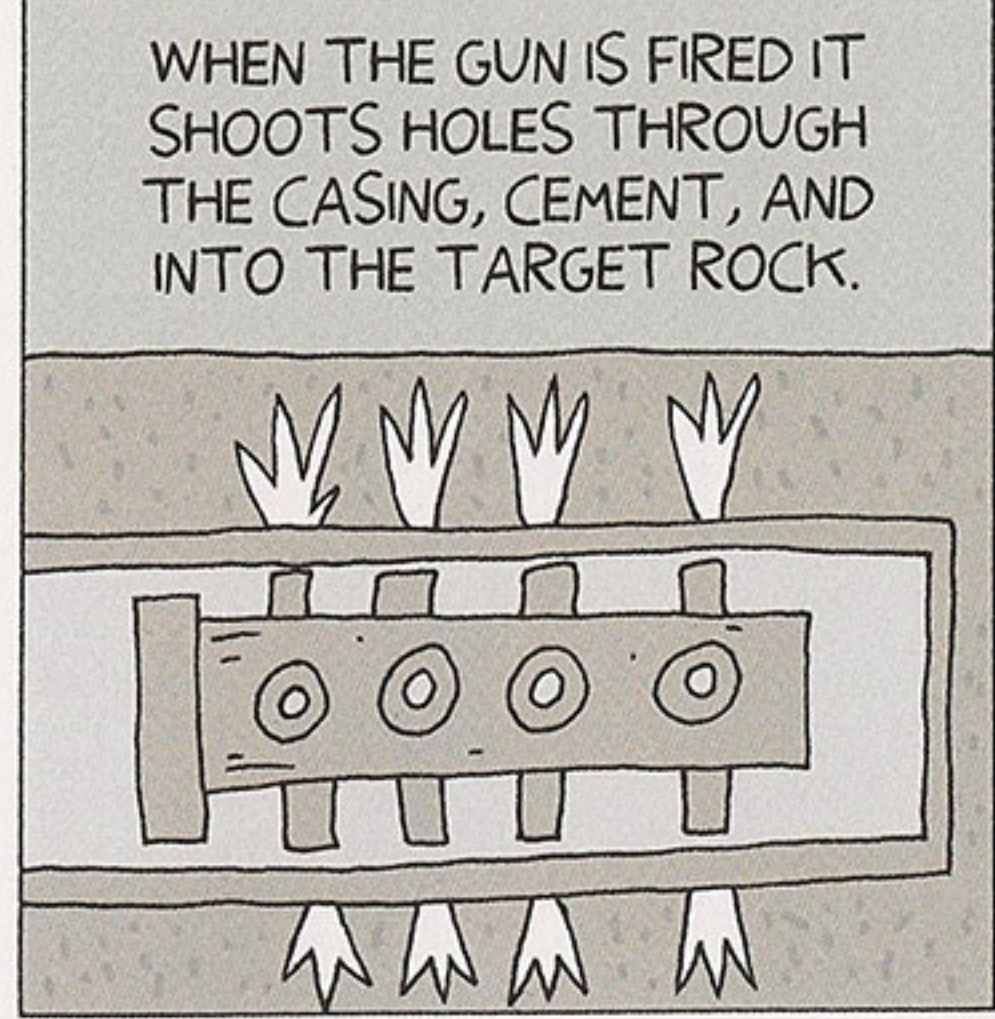
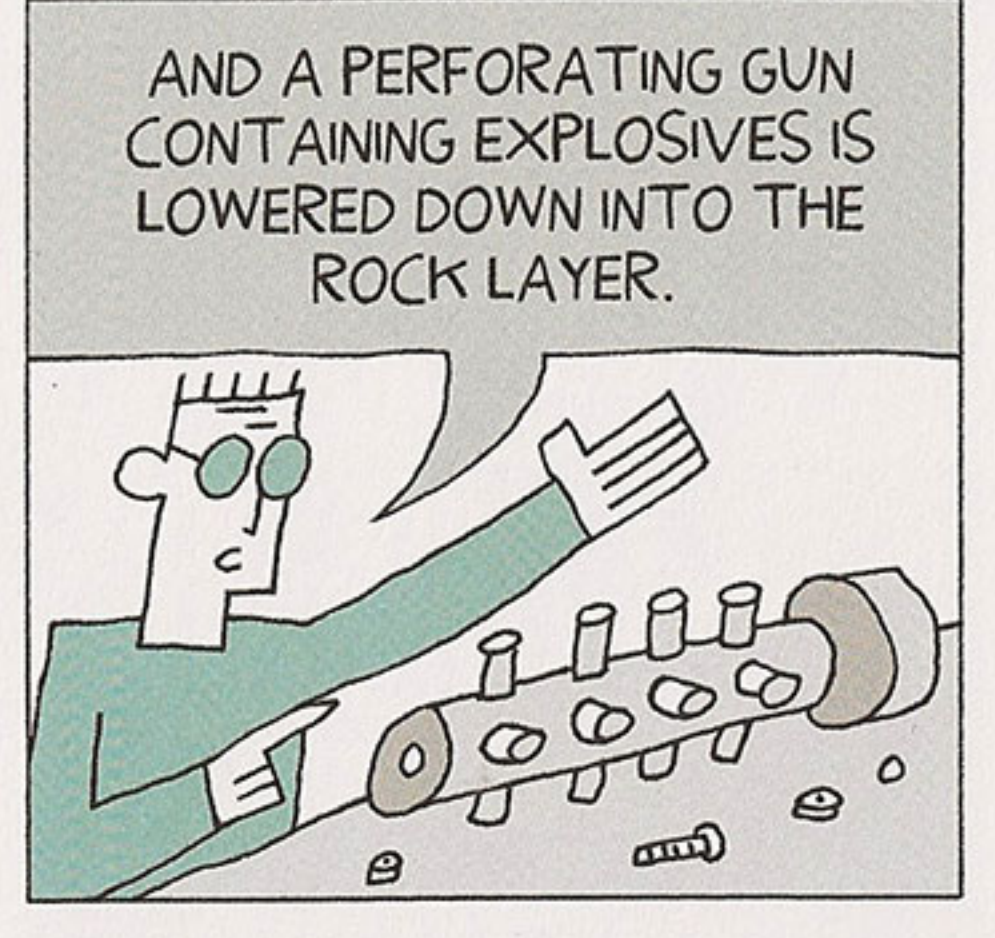
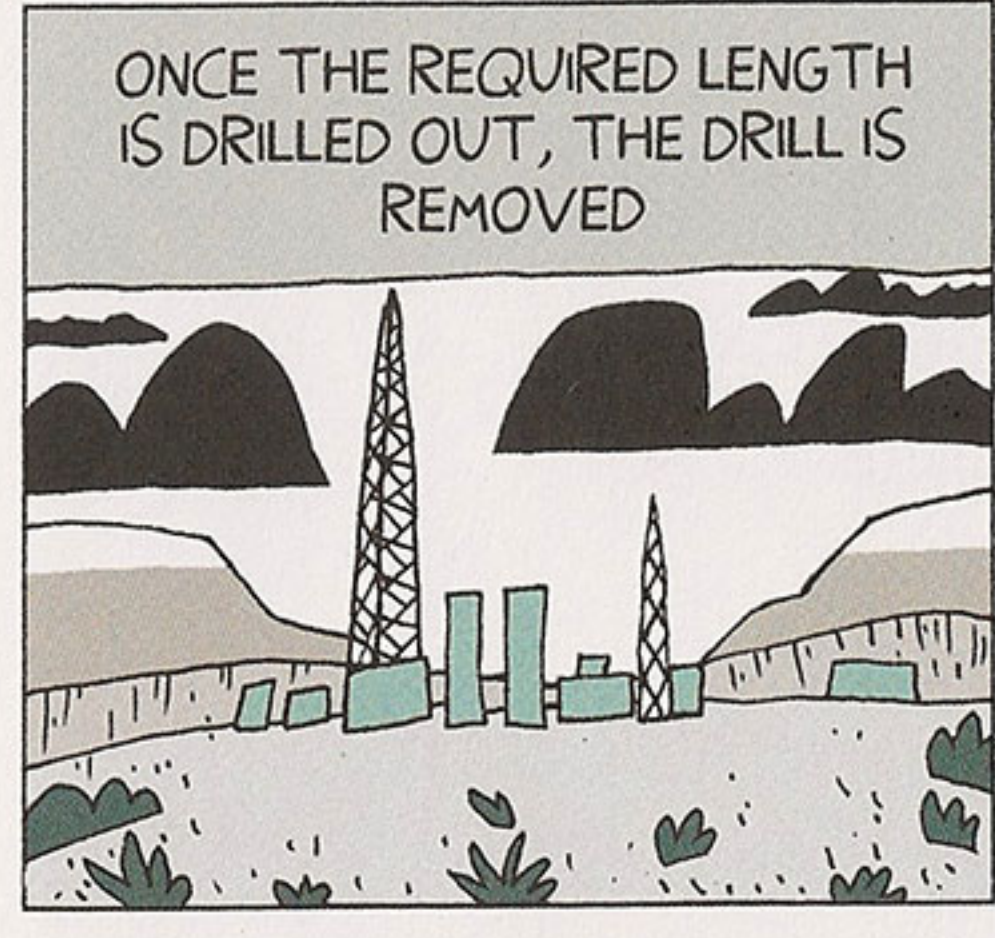
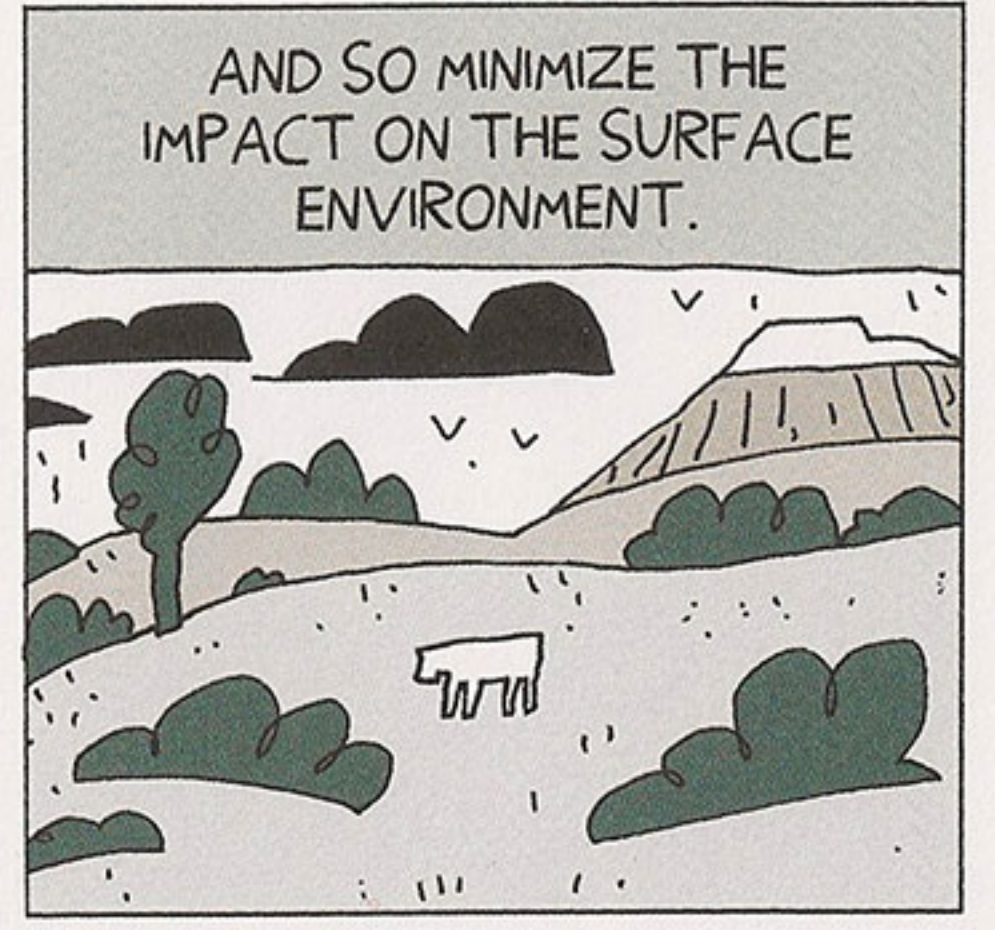
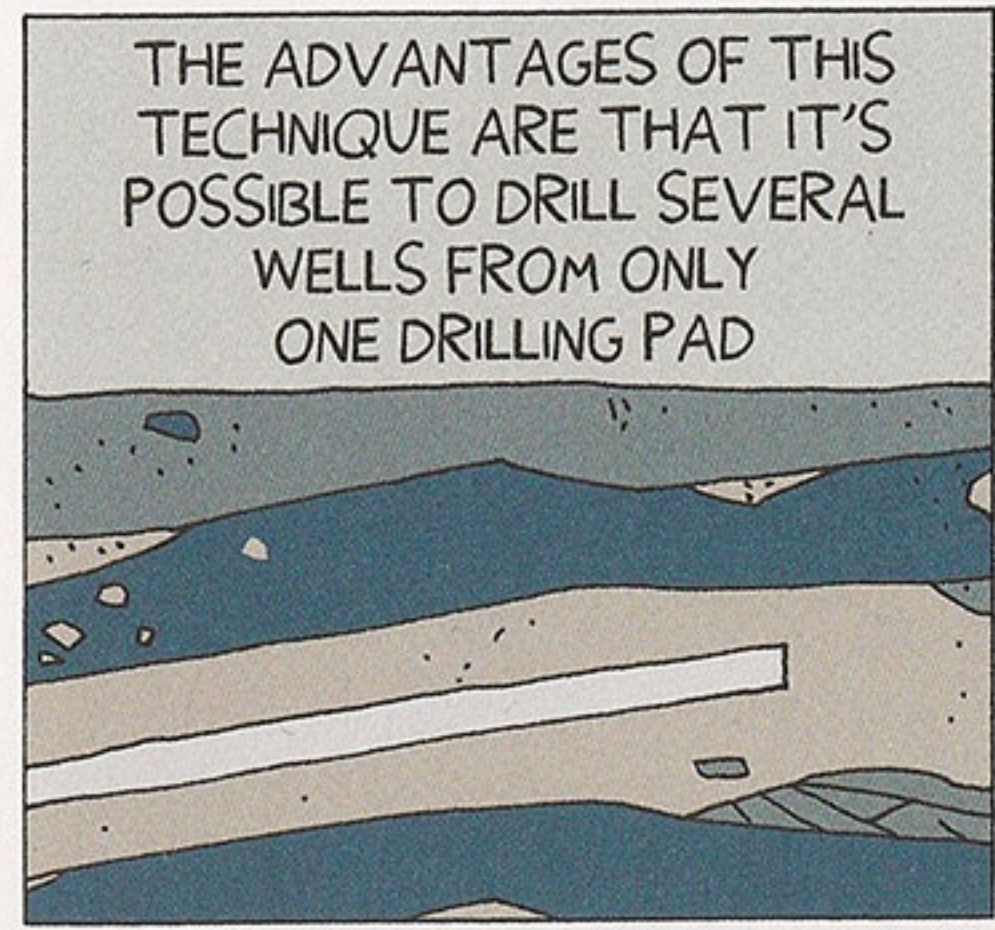
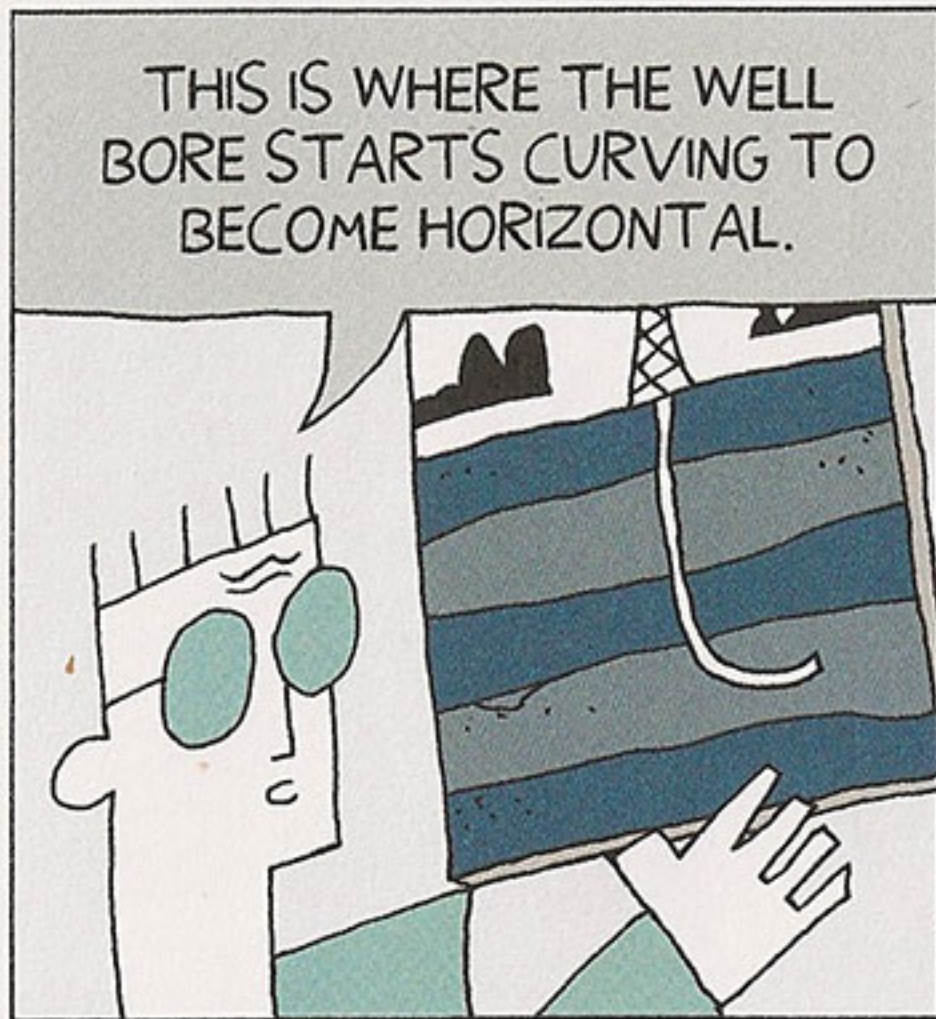
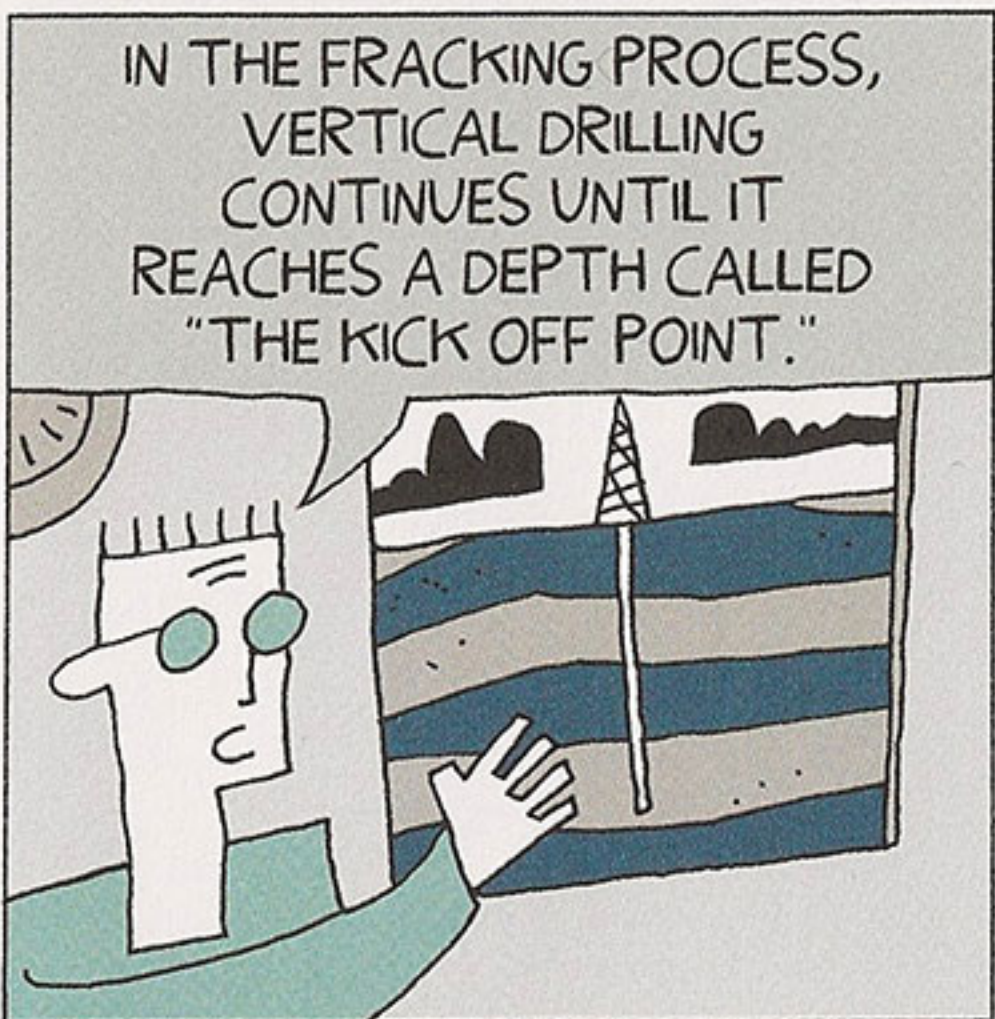
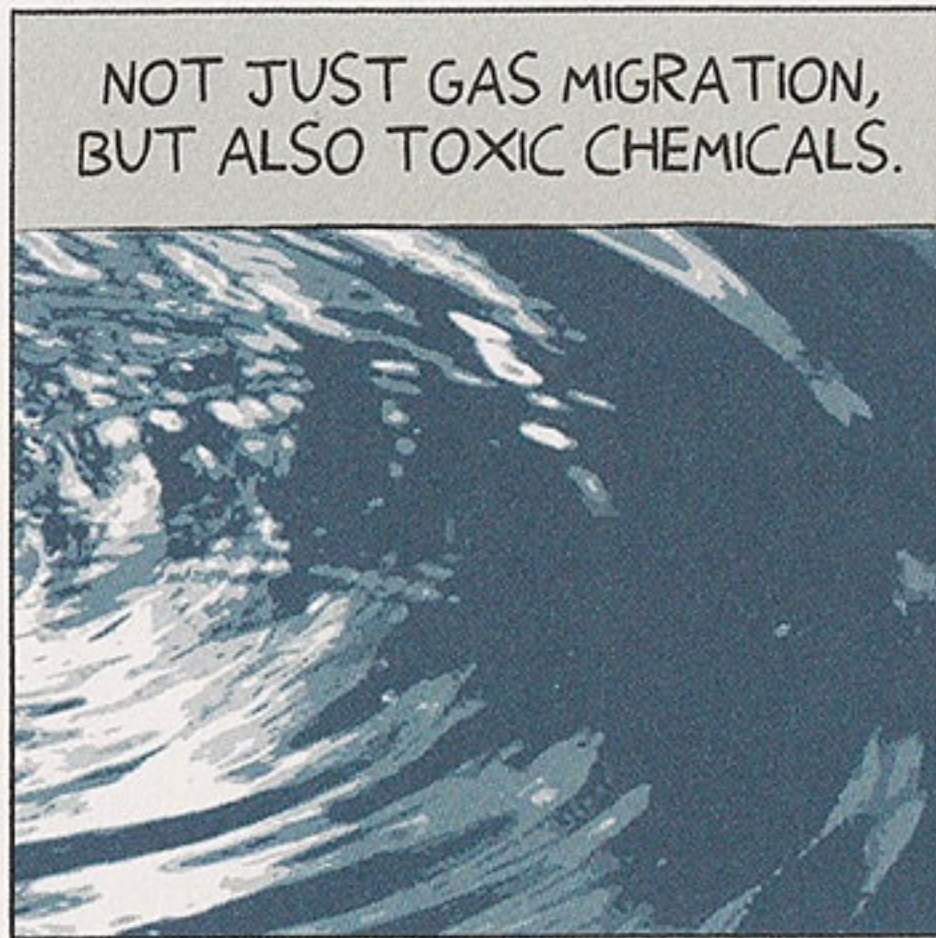
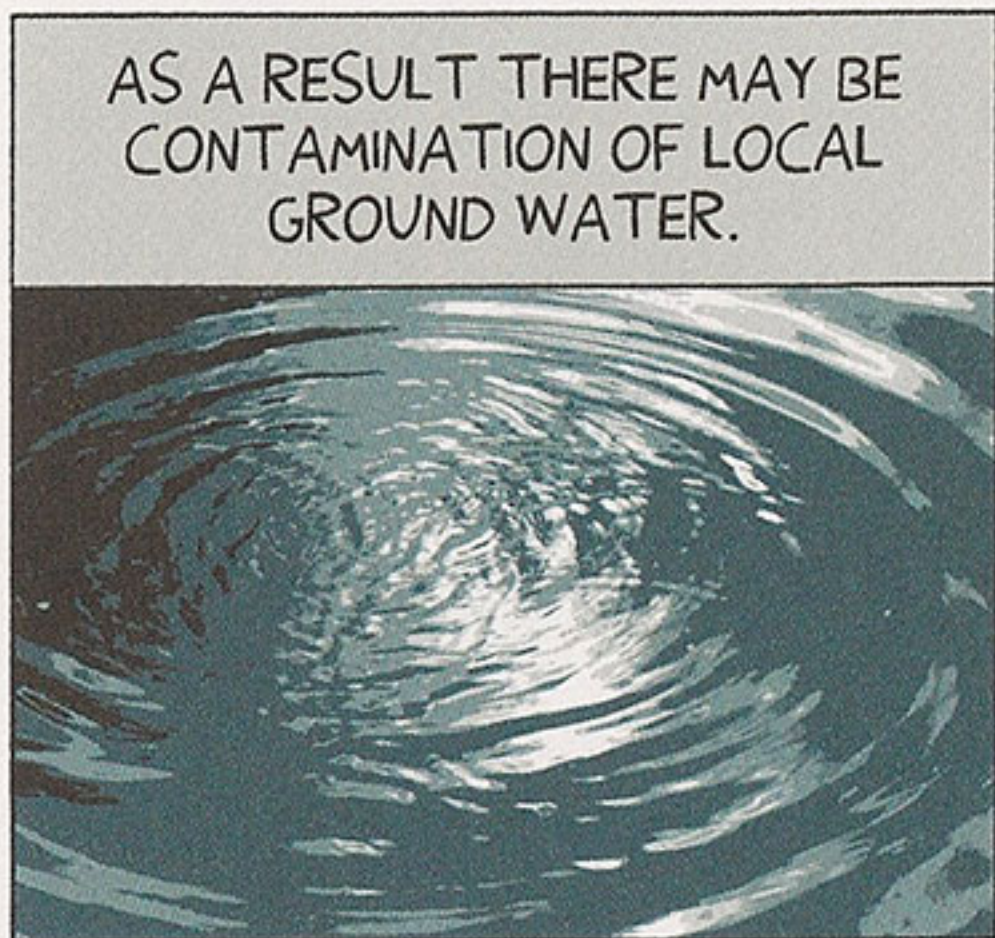
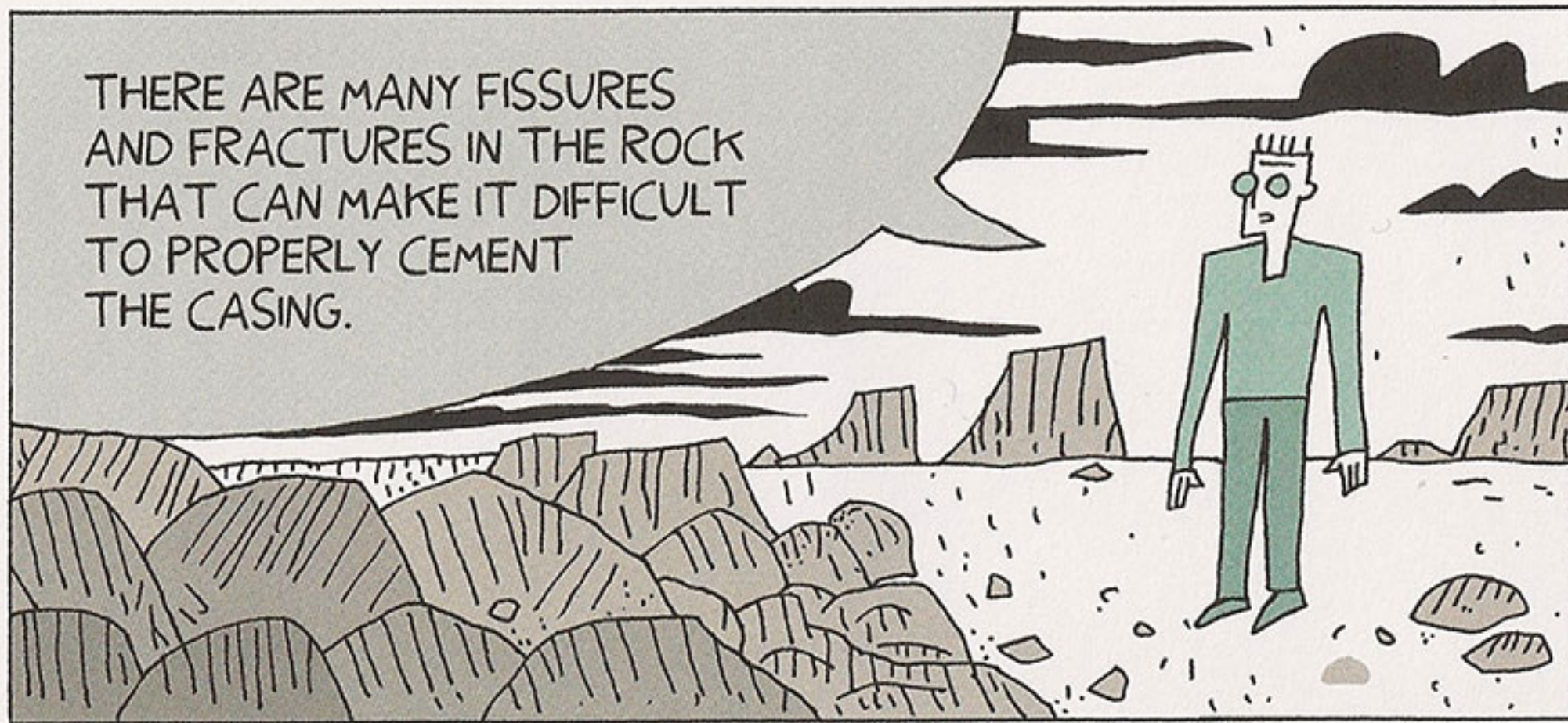


HOWEVER, WHAT MAY LOOK STURDY IN ANY DIAGRAM CAN ACTUALLY BE FRAGILE IN RELATION TO ITS LENGTH.

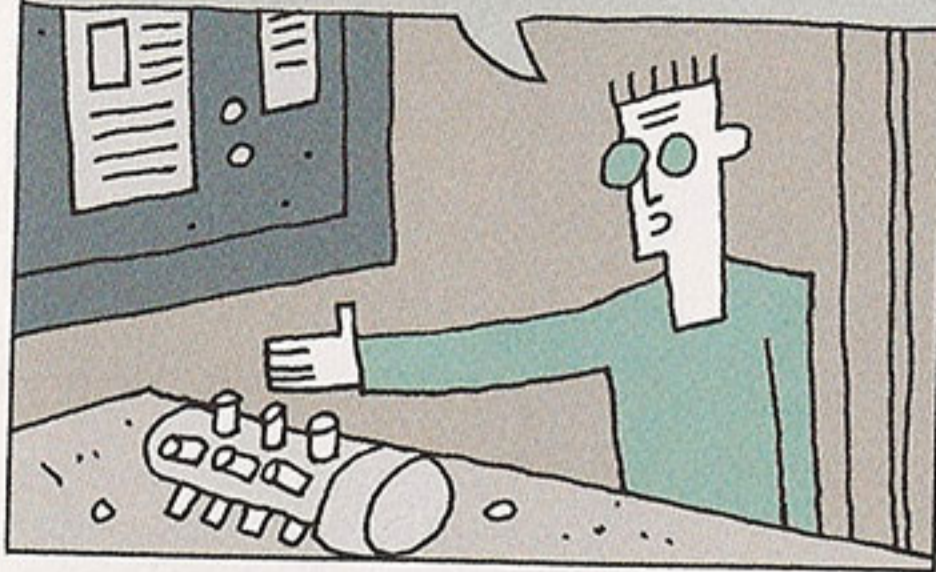


IT'S THOUGHT THAT MUCH OF THE CONCRETE CAN BE LOST WHEN THE CASING IS BEING CEMENTED.





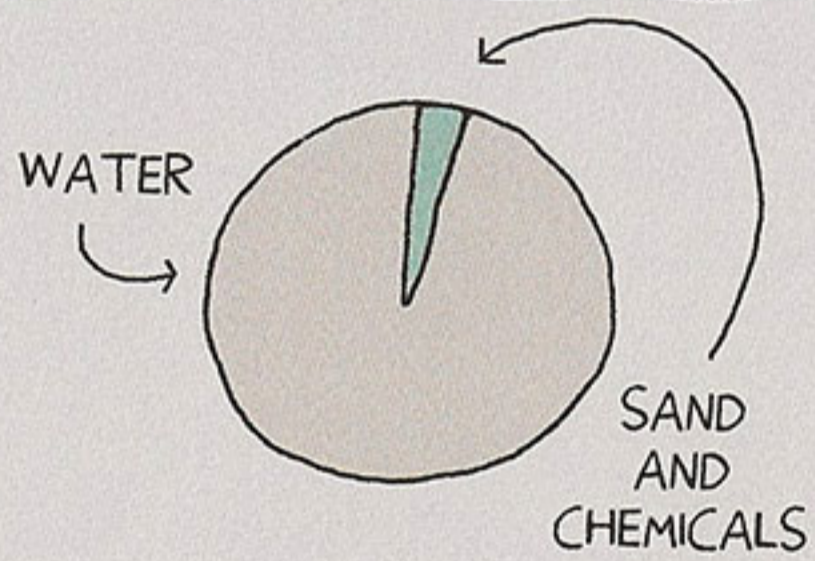
THE PERFORATION GUN IS THEN REMOVED IN PREPARATION FOR THE NEXT STEP,



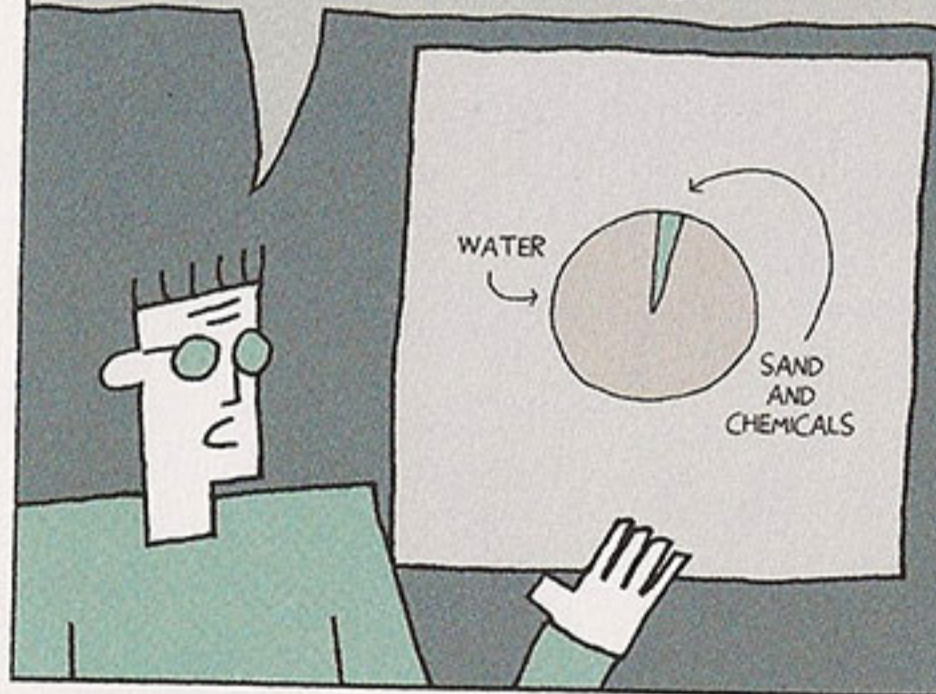
THE HYDRAULIC FRACTURING ITSELF.



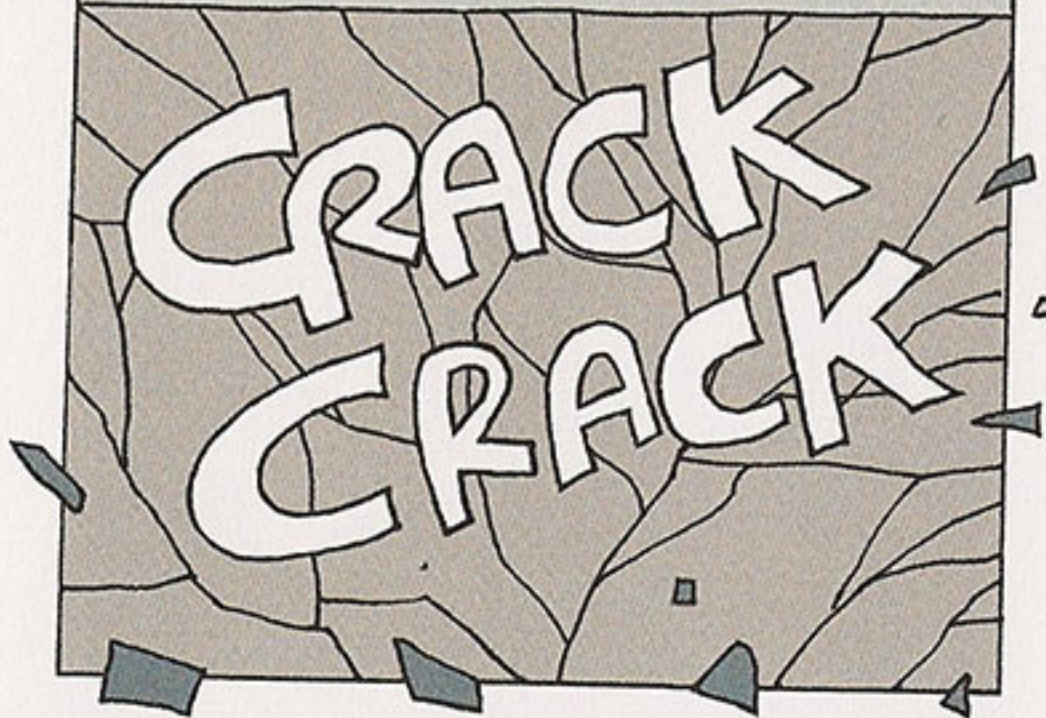
A MIXTURE OF WATER, SAND, AND VARIOUS CHEMICALS IS PUMPED DEEP INTO THE SHALE.



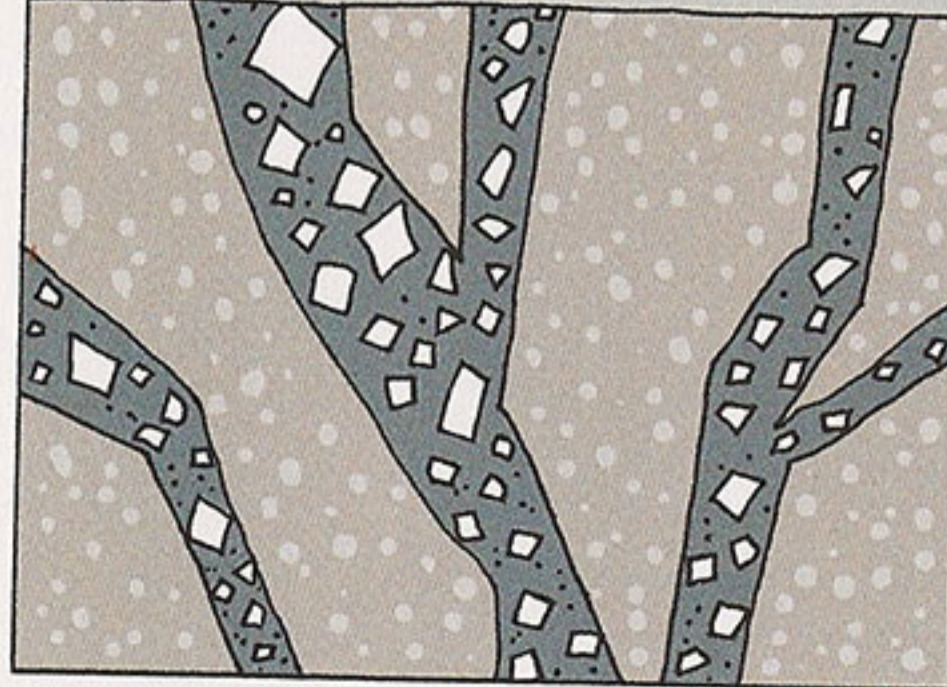
THE CHEMICALS HELP LUBRICATE THE PROCESS AND KEEP BACTERIA FROM FORMING.



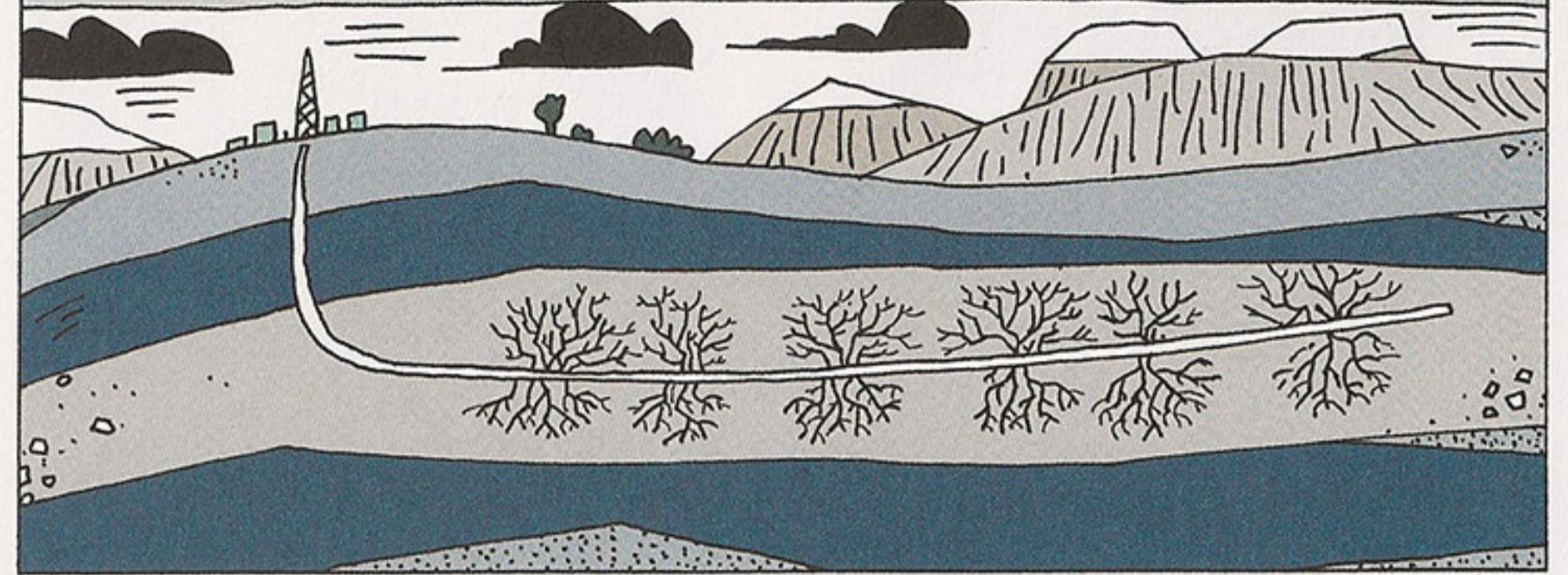
FORCING THIS LIQUID THROUGH THE PERFORATIONS FRACTURES THE SHALE.



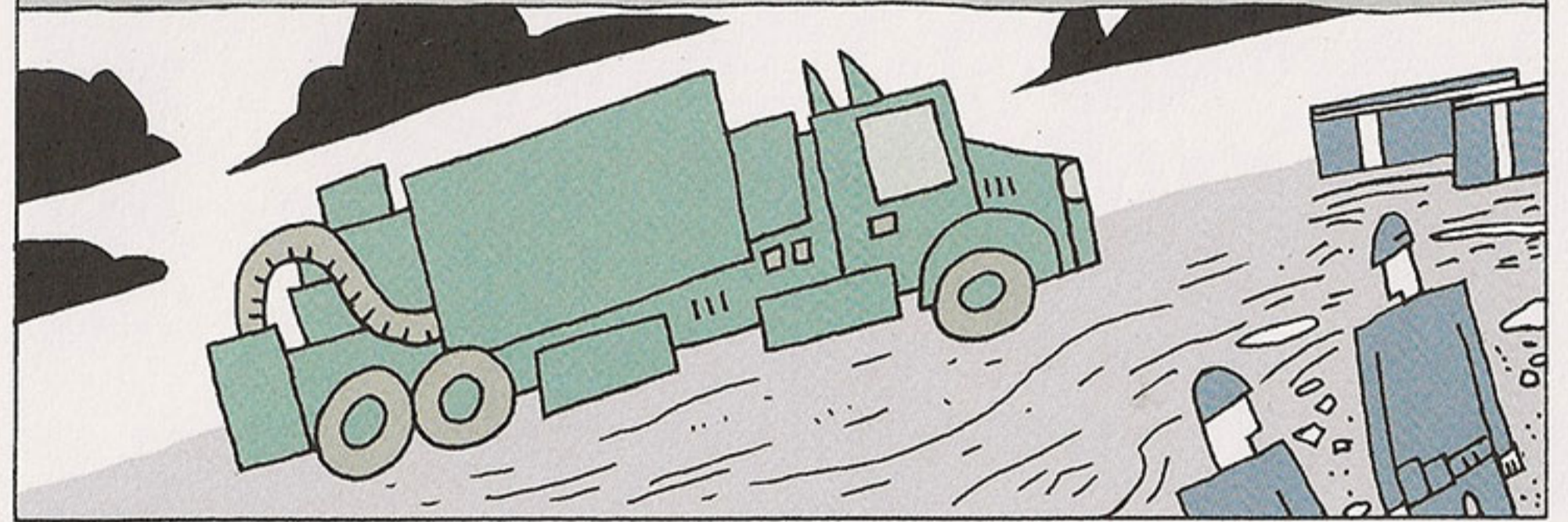
PARTICLES OF SAND, CARRIED ALONG WITH THE FLOW, WEDGE IN THE CRACKS, KEEPING THE FISSURES OPEN.



THE FRACTURING IS REPEATED ALONG THE ENTIRE HORIZONTAL LENGTH OF THE WELL, WHICH CAN EXTEND FOR SEVERAL MILES.



AT THIS POINT, AS MUCH OF THE FLUID AS POSSIBLE IS PUMPED OUT AND THE EXTRACTION OF THE GAS BEGINS.



IT'S AN INSPIRED TECHNIQUE. IN RESEARCHING THIS SUBJECT, I COULDN'T HELP BUT ADMIRE THE INGENUITY INVOLVED.

