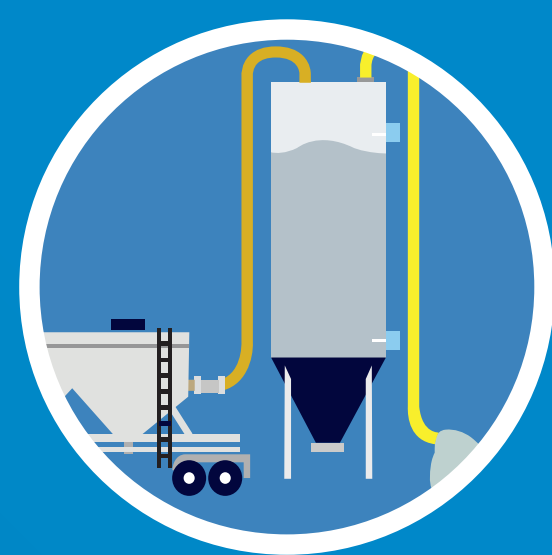


SILICA DUST: DRILLING IT WILL TAKE YOUR BREATH AWAY!

SILICA LOCATIONS/TASKS



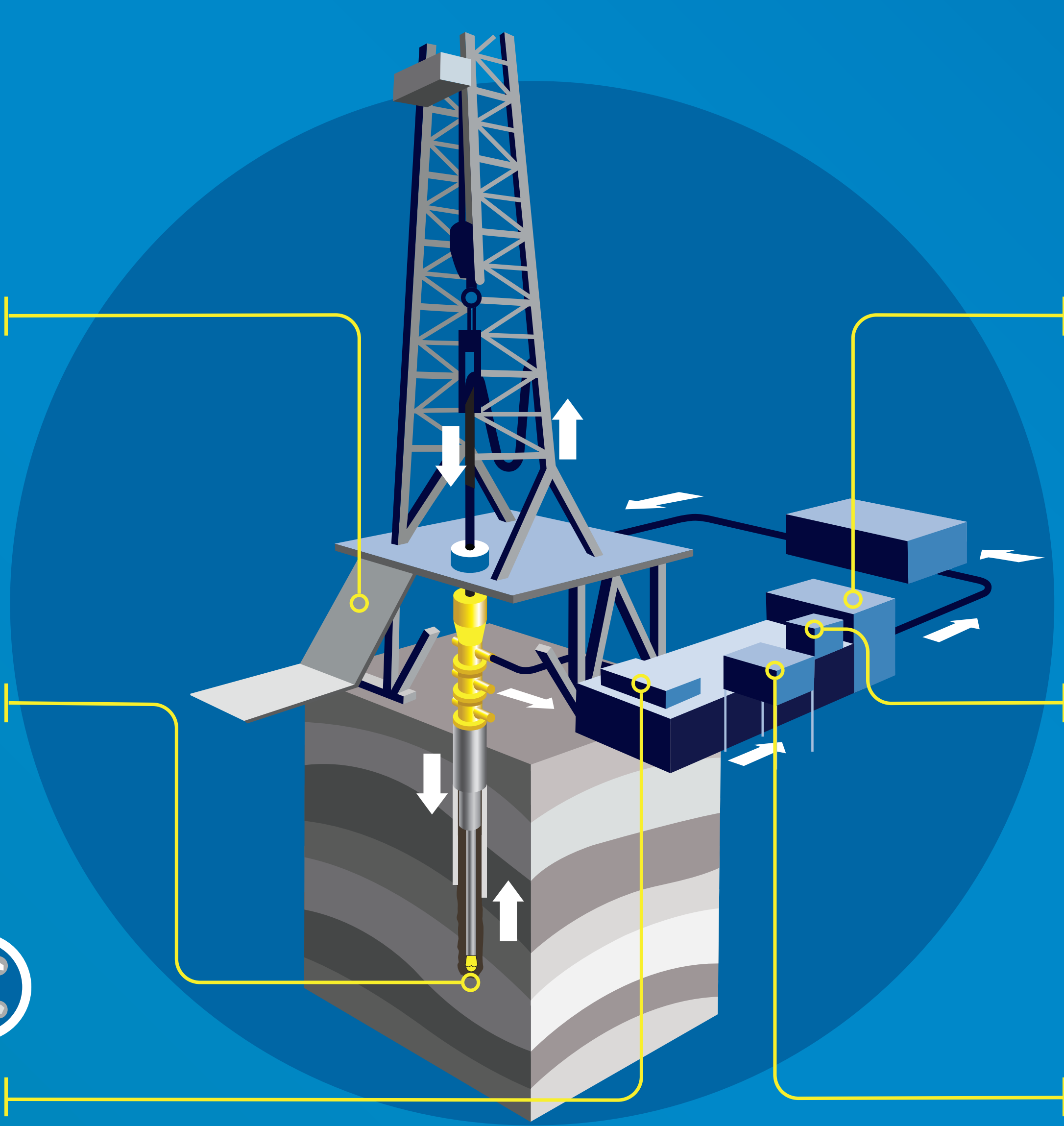
SILO



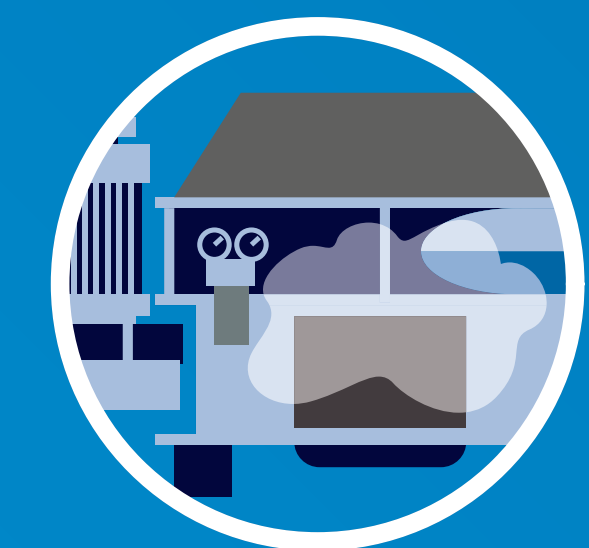
DRILL BIT



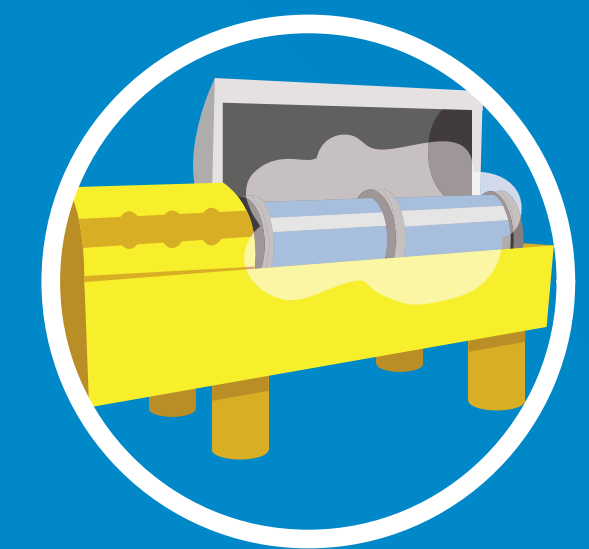
SHAKERS
Crystals in mud



HOPPER



CUTTING DRYERS



CENTRIFUGES

WHAT IS SILICA



Crystalline (Quartz)
Found in rock, sand, cement



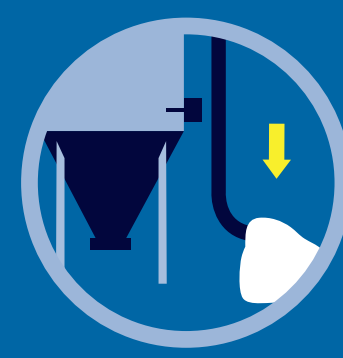
Visible Dust



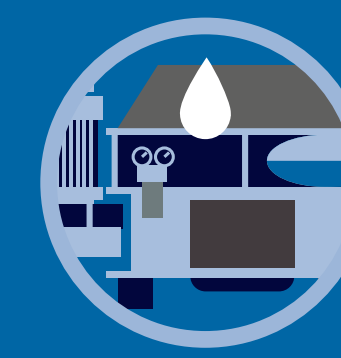
Crystals in Lungs

Silica is a naturally occurring mineral found in sand, rock and dry mixable products. Silica is hazardous when it is inhaled, often as a dust. When silica dust is visible, overexposure is often just a matter of time without safety measures. The health effects are typically not felt right away, but years later.

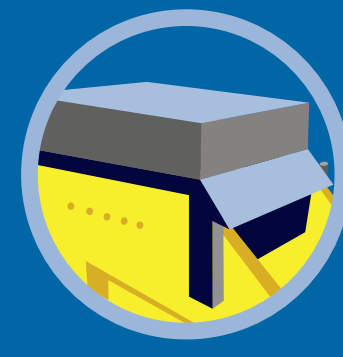
SAFETY MEASURES



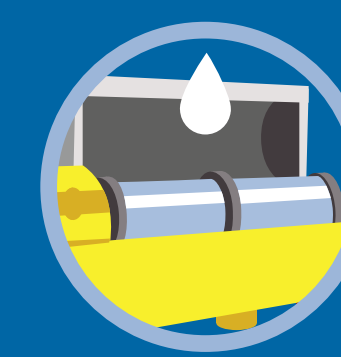
Dust Capture
Stay out of area when loading is underway. Use a respirator if you are breathing the dust.



Cuttings Dryers
Wet down solids or use a respirator when scraping out. Confined space and lock-out/tag-out requirements.



Vented Shakers
Use a respirator if collecting samples or washing screens.



Centrifuges
Wet down solids or use a respirator when scraping out. Lock-out/tag-out requirements.



Hoppers
Pour slowly to reduce dust. Wear a respirator.

IT'S JUST A MATTER OF TIME

I have worked on rigs for a long time and until the last few years I did not give much thought to what I was breathing other than H2S. Now we understand that a bunch of other hazards may be present and without controls could come back to haunt you later in life. I worry about what might be lurking in my lungs - Rig Manager

**ENERGY
SAFETY
CANADA**