

# BEAM PUMP COUNTERWEIGHTS CAN KILL!



## ARE YOU MANAGING THIS HAZARD?

Since 1997, at least 10 worker fatalities related to beam pumps have occurred in Western Canada. The vast majority of these fatalities have been workers being struck by counterweights.

### LOCK OUT CONTROLS

Always make sure two are in place. Follow manufacturer's recommendations



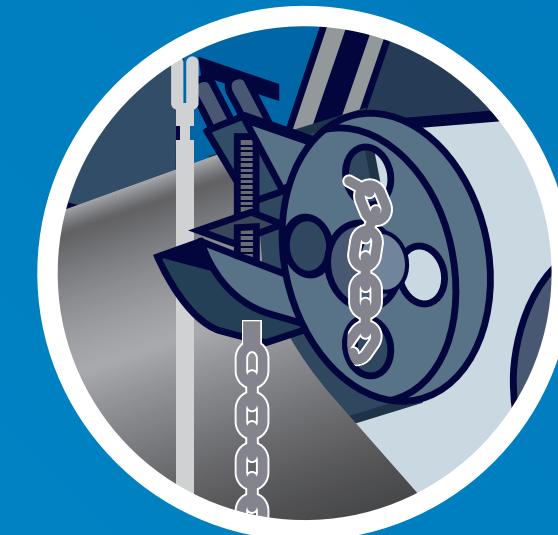
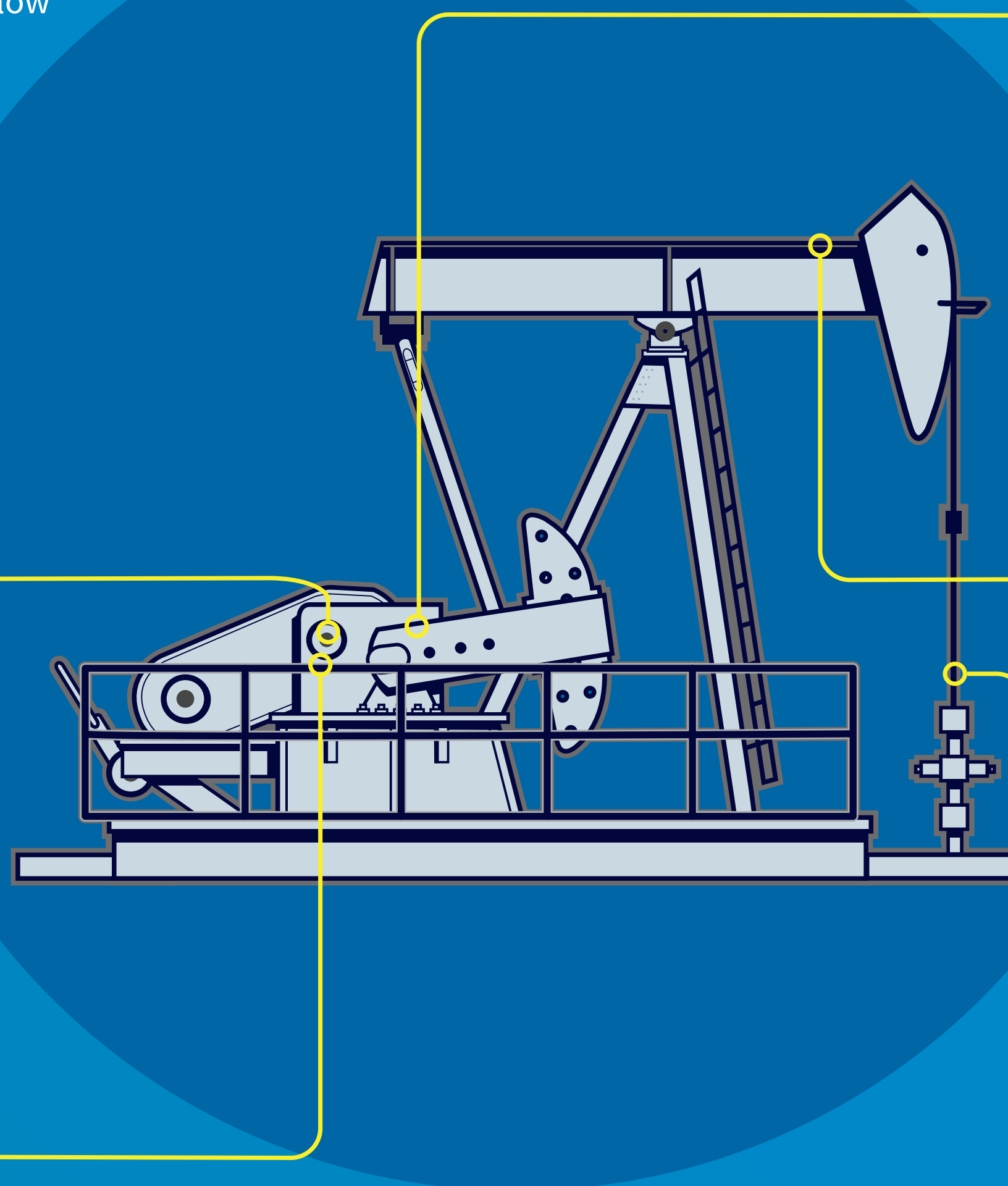
#### HYDRAULIC SHEAVE LOCK

Hydraulic port locked out?  
Fork inserted around spoke?



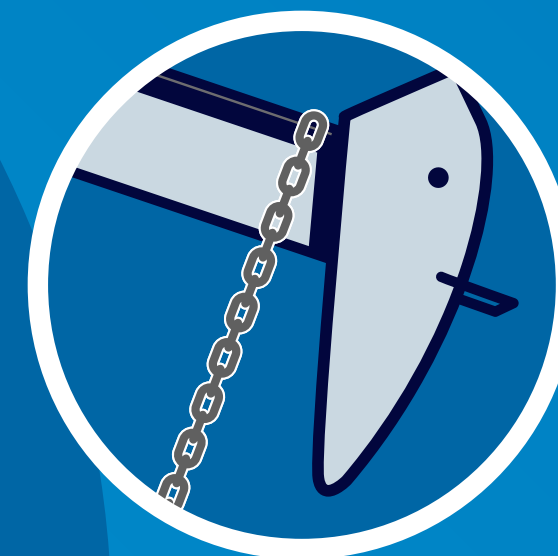
#### BRAKE PAWL

Inspected pawl teeth?  
Tested brake at 3 o'clock?



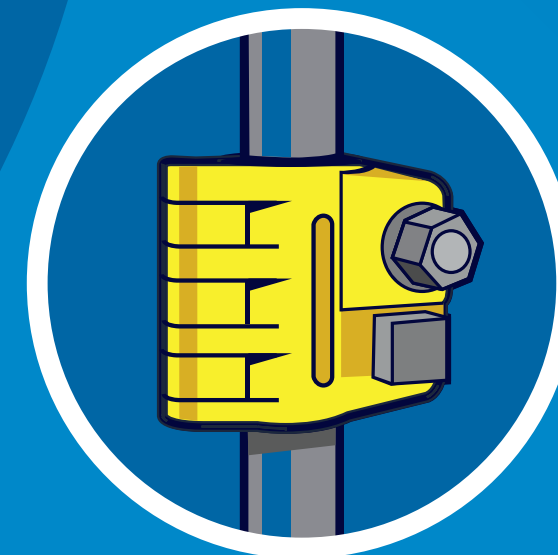
#### CHAINS IN SHEAVE

Chains tight?  
Chain and boomer appropriate for load?



#### CHAINS OVER THE BEAM

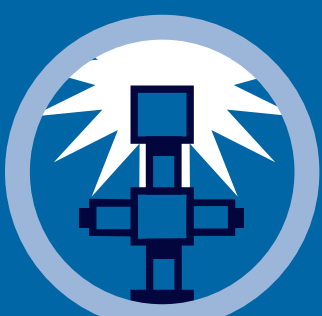
Engineered chain loop?  
Chain and boomer appropriate for load?



#### POLISHED ROD CLAMP

Proper clamp for load?  
Proper bolt torquing?

### OTHER HAZARDS



Pressure



Falls



Chemical



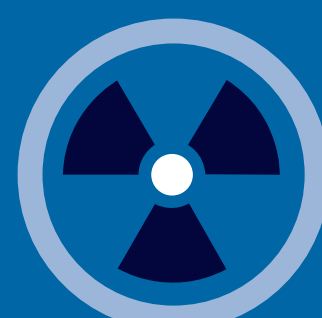
Electrical



Biological



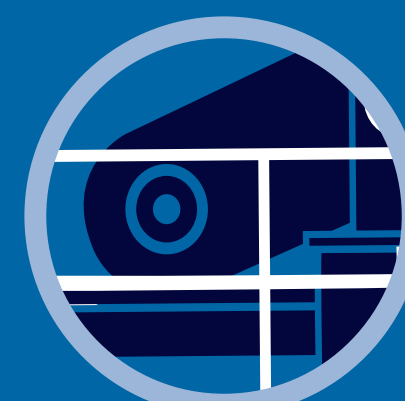
Heat / Cold



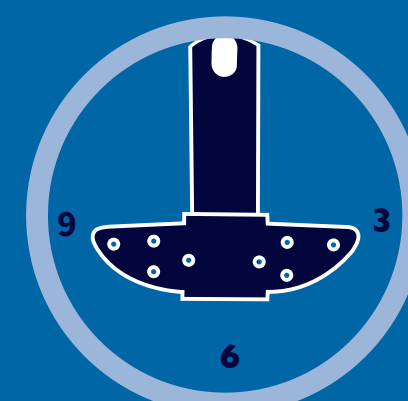
Radiation

### OTHER SAFETY MEASURES

Keep yourself and others out of the line of fire, a Life Saving Rule.



Guarding



Counterweight  
to 6 o'clock



Signage



Brake not a  
lockout control

### THIS COULD HAPPEN TO YOU

A worker was cleaning up the site by picking up debris on the ground while the beam pump was still operating. The pump was not guarded with a fence. As the worker was picking up debris, he was struck in the head by one of the pump's rotating counterweights, knocked to the ground and then crushed by the counterweight. The injuries sustained were immediately fatal. – Alberta Occupational Health & Safety Investigator

**ENERGY  
SAFETY  
CANADA**