

The Impact of Moisture



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The evolution of tank breathing technology



Phase I

- Inverted Pipe
- Vented Filler Cap
- Spin-on Filter Element

- Designed to only address particulate
- Moisture is not addressed



The evolution of tank breathing technology

Captures
free/dissolved
moisture

Must be
replaced on
regular basis



Phase II

- Hydrophobic Barrier
- Desiccant Canister



Phase I & II – Passive Technologies

- Good control of particulate, marginal control of moisture (that passes through device)
- Functionally passive
 - Does not improve fluid condition



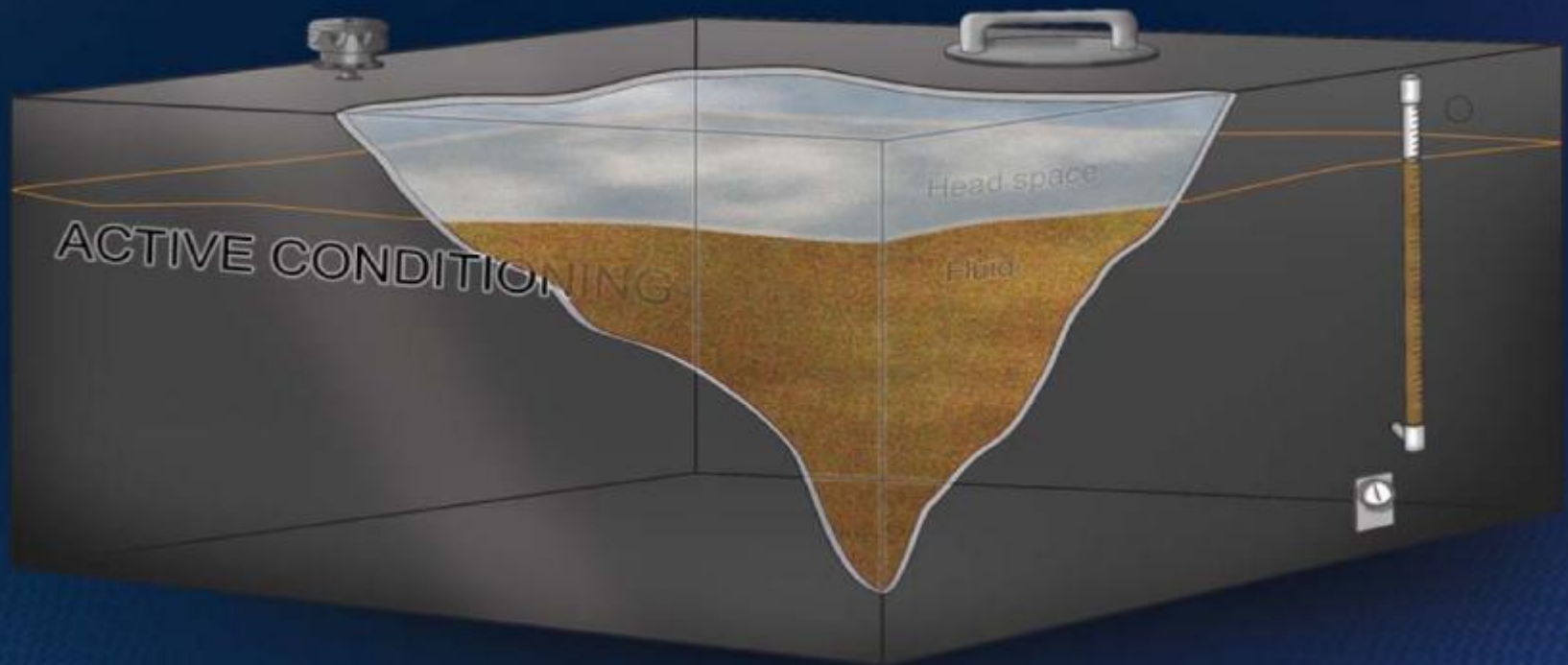
The evolution of tank breathing technology

- Blankets the headspace with clean, dry air, using a special membrane, reduces air RH to - 60c dew point.
- Removes moisture and will not allow particulate to ingress tank on temperature changes.
- Removes dissolved moisture from the fluid.
- Maintains the fluid at very low moisture levels.



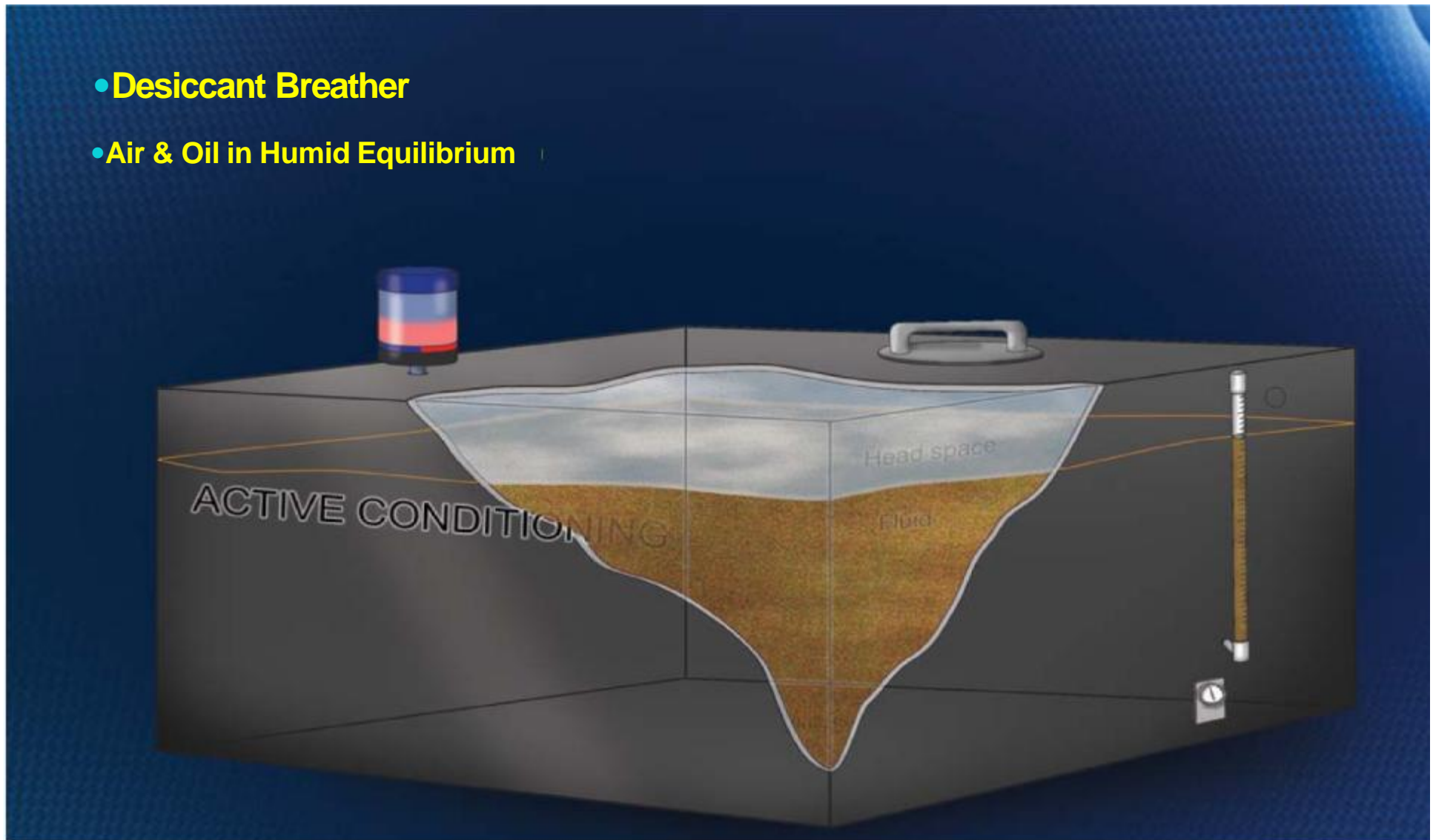
The impact of breathing technology on reservoir condition.

- Conventional Breather
- Air & Oil in Equilibrium



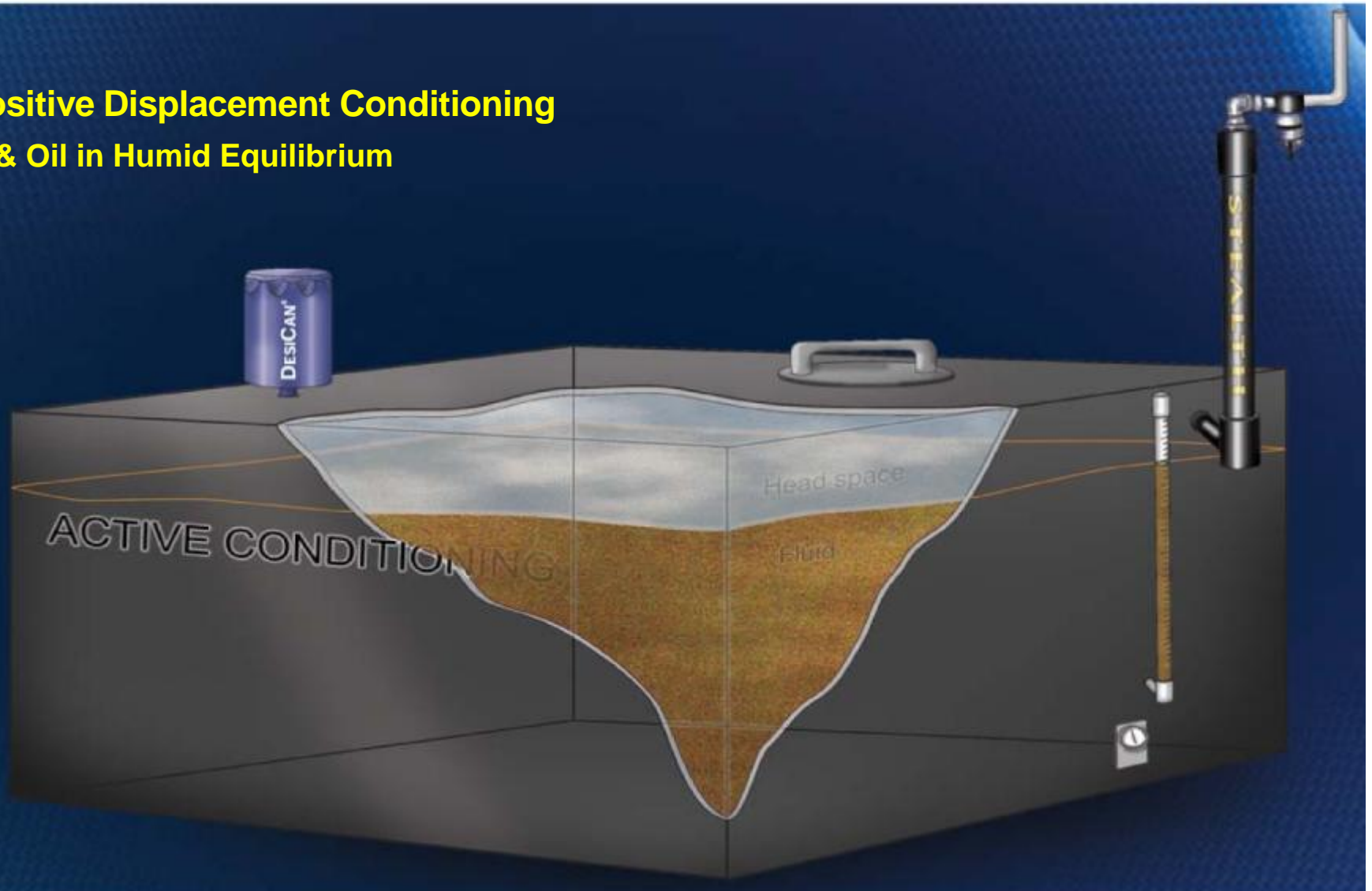
- The impact of breathing technology on
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- Desiccant Breather
- Air & Oil in Humid Equilibrium



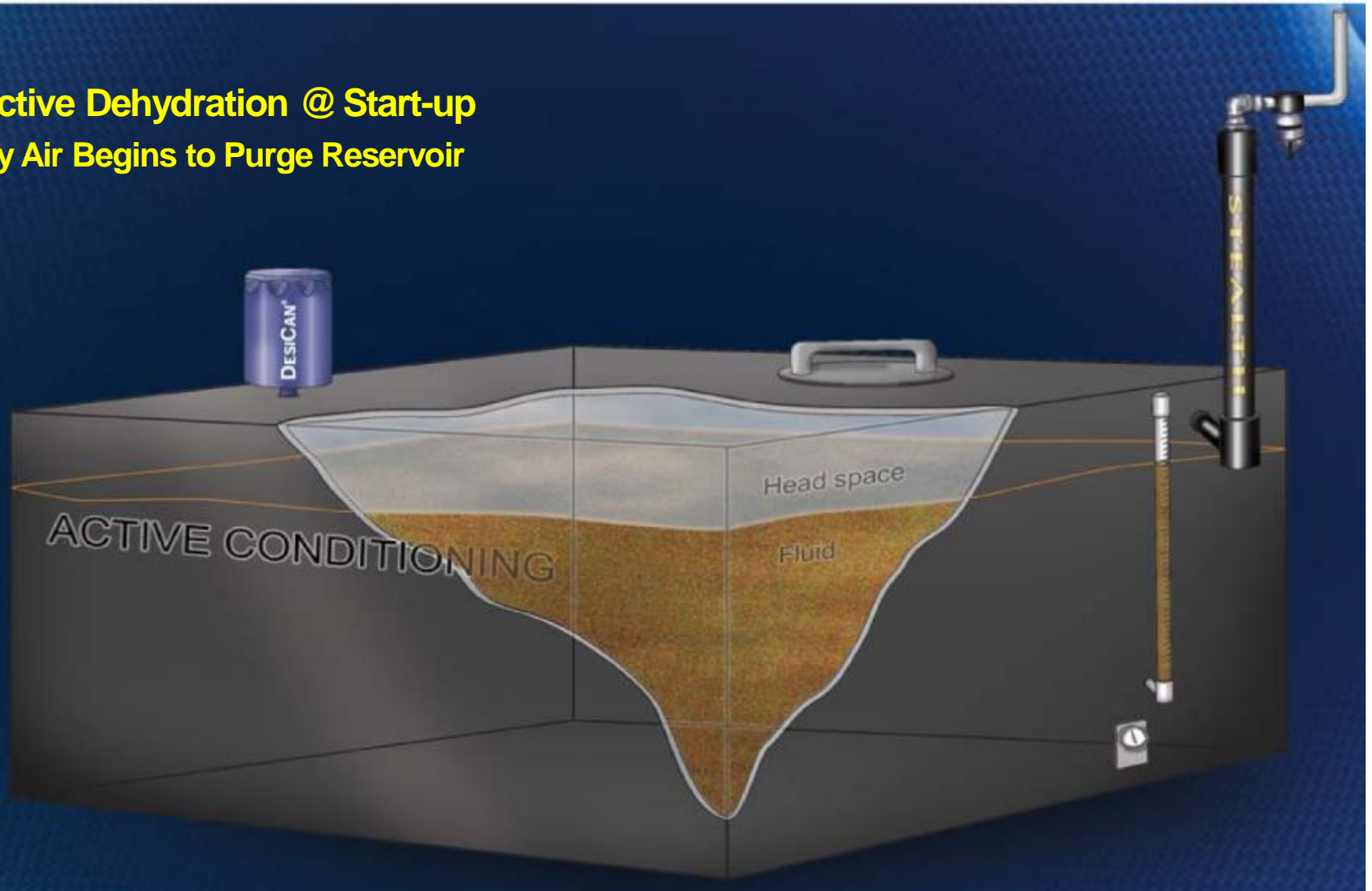
The impact of breathing technology on reservoir condition.

- Positive Displacement Conditioning
Air & Oil in Humid Equilibrium



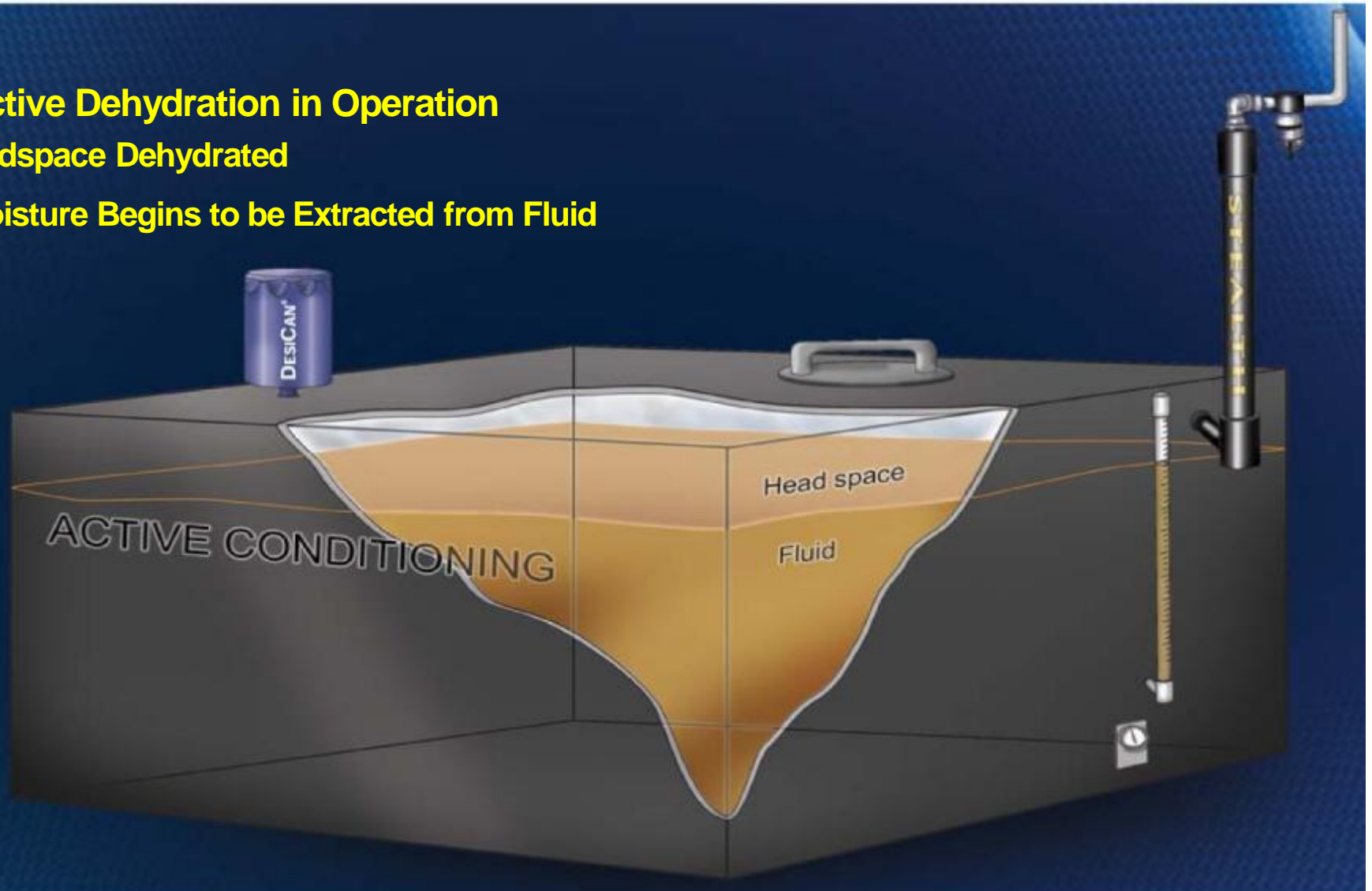
The impact of breathing technology on reservoir condition.

- Active Dehydration @ Start-up
Dry Air Begins to Purge Reservoir



The impact of breathing technology on reservoir condition.

- Active Dehydration in Operation
Headspace Dehydrated
- Moisture Begins to be Extracted from Fluid



The impact of breathing technology on reservoir condition.

- Active Dehydration Fully Operational
Air & Oil in Dehydrated Equilibrium

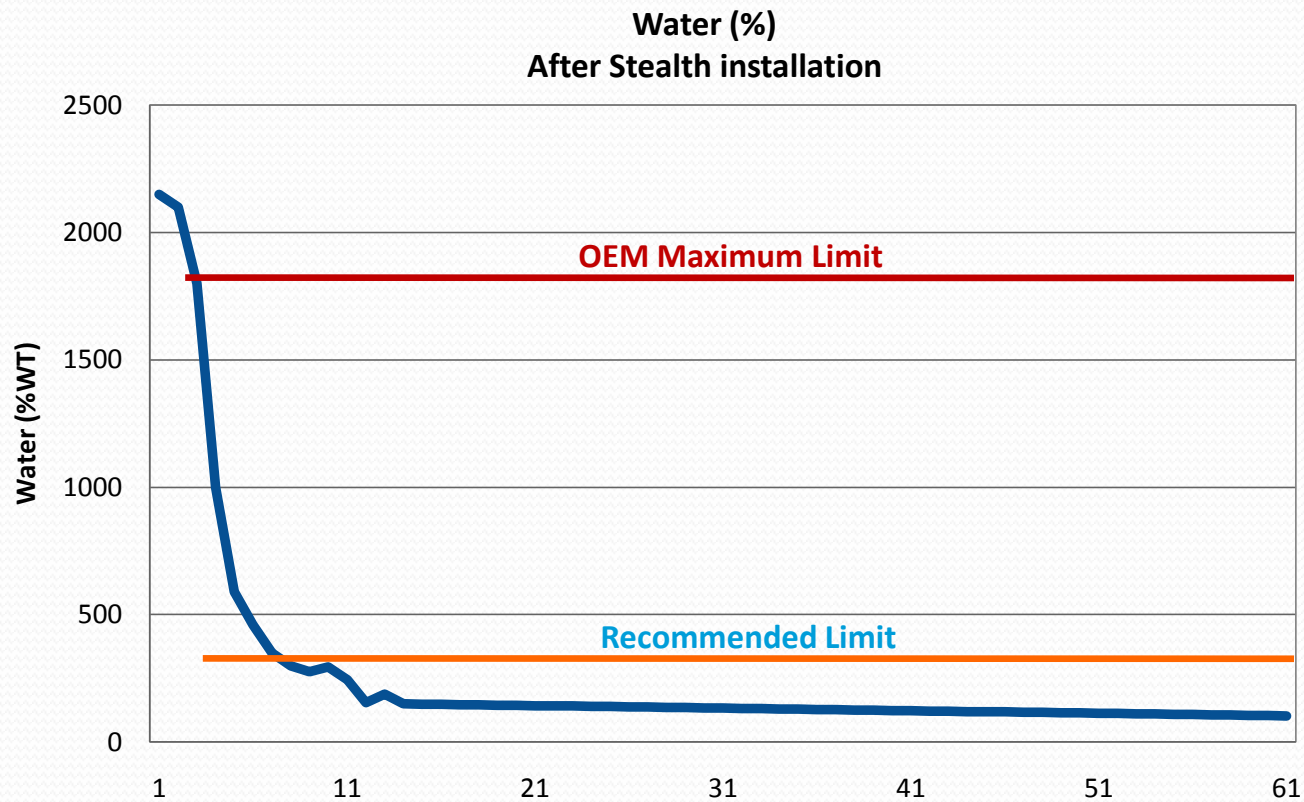


Stealth Dry Gas Blanketing System

- An inexpensive way of maintaining extremely low water levels in your EHC fluid
- A fraction of the cost of a vacuum distillation system with similar results
- Prevents other airborne contaminants from getting into the system



Stealth Dry Gas Blanketing System



High Value Proposition

- Inexpensive.
- Easy to install.
- No moving parts – low maintenance.
- No consumables.
- Engineered orifice to protect from over pressurization.



“Stealth” Dry Gas Blanketing System by Fluitec Intl.

