

OIL & GAS

Quick STUDY

Hydra-Cell
Seal-less Pumps

www.Hydra-Cell.com

Location:	United States
Application:	Boiler feed for steam injection
Media:	• Water
Model No.:	T80KADGHFEPA (T8045)
Flow Rate:	Up to 45 gpm (170 l/min)
Pressure:	Up to 3000 psi (207 bar)
Hydra-Cell Advantages:	• Seal-less design, avoiding early wear problems • Simple in-situ maintenance • Reliable operation on continuous duty



Boiler Feed for Steam Injection in Crude Oil Recovery

For extracting heavy crude oil from relatively shallow wells, commonly used technologies rely on the injection of steam to reduce the high viscosity of the oil and allow it to flow.

The boiler feed water is treated but is variously sourced and not free of contaminants. It must be pumped at high pressure. Although widely used for this duty, plunger pumps (reliant on seals) need frequent maintenance to avoid early wear and other problems in these conditions.

A California-based exploration and well operating company has introduced Hydra-Cell seal-less pump technology on one of its wells, replacing the plunger pump with a Hydra-Cell T8045 for boiler feed in steam injection.



Characteristics of Fluid Pumped:

☒ Contains Abrasives ☐ Corrosive ☒ Solids in Suspension ☐ High-temp. (>158°F/70°C) ☒ Non-lubricating ☐ High-viscosity (>500 cPs)