

Application story


WANNER™
HYDRA-CELL® PRO
SEAL-LESS PUMP TECHNOLOGIES



Boiler Feed for Steam Injection in Crude Oil Recovery

Location	USA	Hydra-Cell model	T100KADGHFEPA
Type of application	Boiler Feed for Steam Injection in Crude Oil Recovery	Flow rate	Up to 170 l/min (45 gpm)
Liquid	Water	Pressure	Up to 207 bar (3000 psi)
Application details	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.		
Advantages of Hydra-Cell pump on this application	Seal-less design, avoiding early wear problems. Simple in-situ maintenance. Reliable operation on continuous duty.		

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