

BLACKHAWK ENVIRONMENTAL COMPANY

Blackhawk Environmental Company provides pumping solutions for the environmental, landfill, groundwater and industrial markets. Blackhawk specializes in manufacturing quality pumps and controls for demanding pumping applications.



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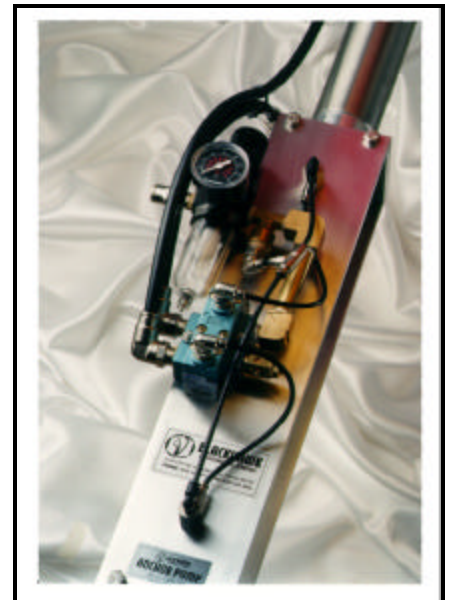
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BLACKHAWK'S NEW ANCHOR PUMP® SUCCESSFULLY RECOVERS CREOSOTE OIL FROM 250 FEET WELL

BLACKHAWK ENVIRONMENTAL COMPANY'S Anchor Pump was used to successfully recover creosote oil from a 100-year-old wood preserving operation that produced wood products. The creosote, used to preserve the wood, was leaked, spilled, dumped and ponded on the site and had sunk into the groundwater.

To clean up the site, pneumatic environmental pumps were placed in wells to recover the creosote product. From the start the pneumatic environmental pumps had a difficult time recovering the creosote. Their flow rate was less than 8 oz per hour. The pumps would clog, seals would deteriorate and compressed air lines that went down the well to power the pump would leak. The oil recovery wells had to be taken out, on a regular basis, to be repaired or cleaned. Often a two-man crew was required to maintain the operation.

The Blackhawk Anchor Piston Pump was chosen as an alternative to this labor-intensive operation and to provide a more effective way to recover the creosote oil. The Anchor Pump offered several advantages:



- all drive motor working parts located on top of the well make the pump easy maintain and look at
- top head drive oil well sucker rod pump that is more effective at recovering thick oily liquid
- smooth controlled flow recovery with the ability to tune the speed and strength of the recovery to the yield of the formation being pumped
- a plunger pump, with a reciprocation action, that mechanically, actively recovers fluid from the bottom of the well independent of liquid level in the well while maintaining a constant flow recovery rate
- a drive motor on top of the well to ensure that no compressed air enters the well or comes in contact with fluid being pumped

The Anchor Pump was placed in a 250' thick, tar laden well. Other pneumatic environmental pumps could only be placed to a 150' depth because the creosote was too thick for them to pump. The Anchor Pump was specially designed to be low profile at surface grade and to fit into a protective doghouse. Its stroke was 6" and it was set to pump 4 strokes/min. or 8 oz/min. Upon installation and start up, the Anchor Pump ran continuously and after five days, it was pumping a water creosote mixture. Initially the pump pumped thick no. 6 tar-like creosote for 4 days and on the 5th it started to pump oil and creosote.

The unit has allowed one man to run the system, requires no down hole maintenance repairs and produces more product, less disturbed and of better oil treatment quality than before.