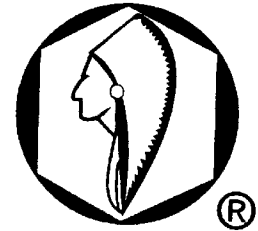


Piston Pumping Solutions - Gas Well

*Difficult Pumping Applications from
Blackhawk Environmental Company*



EASY PUMP MAINTENANCE

*Innovative Anchor Pump Repair Program Elevates
Efficiency at Major Metropolitan Landfill/Remediation Site*

A major Industrial District/Recycling Disposal Facility, located in Illinois, consists of a municipal and hazardous waste site, which also has an active biosoil, leachate recovery and gas recovery operation for the wastes generated by the population of the southeast Chicago-land metropolitan area. Established more than 33 years ago, the landfill covers approximately 750 acres. Three men monitor the pumps for 150 wells, including 31 Blackhawk Pneumatic Anchor Pumps®, at the site. Gradually, as the older equipment wears out, the site is replacing virtually all its pumps with Anchor Pumps because of Blackhawk's innovative top head drive design and user-friendly pump repair program.



Tony Brooks, Leachate Technical Supervisor, shown here with one of the 31 Blackhawk Pneumatic Anchor Pumps.

"The reason why Anchor Pumps are such an excellent choice for us revolves around a major design feature of the pumps. Not only are they ideal for pumping hot, dirty, slimy materials, especially leachate and landfill gas condensates, Anchor Pumps are designed with the entire pump drive mechanism, including the controls, on top of the wellhead, so we can see at a glance whether the pump is working or not. Of course, everything that needs maintenance is outside the well, too. With Anchor Pumps, it only takes 3-1/2 minutes to change out the motor and swap it with another. All our other pumps are in the well and that means we have to pull out as much as 110 feet of pump in order to fix the problem," said Tony Brooks, Leachate Technical Supervisor.

"We keep spare pumps, motors and parts which we can replace ourselves, such as exhaust valves, filters and the like, on hand at all times. When something major occurs, such as problems with the seals or air cylinders, we have a repair plan that we developed with Blackhawk," Brooks continued. "The problem pumps are picked up right away and they call the next day with an answer. They are returned within a week. Blackhawk jumps on the problem right away. The turnaround is fast. When the pumps come back, they have been completely disassembled and redone. They're like brand new. I like working with Blackhawk and have for years. They are efficient, easy to work with, and a no-nonsense company."



Corrective Action Territory at the Landfill in Illinois.

The landfill bought its first Anchor Pump from Blackhawk 4-½ years ago to tackle a small problem well with a 6" PVC pipe. Seeing how well the Anchor Pump removed the extremely oily and silty leachate its other pumps couldn't handle from this well, the operators immediately saw the potential to put more Anchor Pumps to work in the field. "All of our Anchor pumps are extremely versatile, reliable, easy to maintain, and have good draw down. When I suggest an improvement or a change, Blackhawk incorporates it into our pumps. We've changed the limit switches, added oilers, different exhaust, and more. One time Blackhawk changed the air cylinder in one pump and didn't mention it until two years later. When asked about this pump, I said we hadn't had a problem with that one. Little things like that make my job easy," said Brooks.

Blackhawk's Anchor Pumps feature the pump inlet at the bottom of the pump, so that the pump acts like a syringe, extracting the product from the bottom of the well with every stroke for highly reliable and consistent pumping, whether the pumping action is clean or dirty. The positive displacement action resists slowdown or stoppage even in the most sticky, gritty or oily situations. There are very few moving pump parts in the well to cause problems. Because Anchor Pumps have the controls on top, they're very easy to install, inspect, troubleshoot, and maintain. They can be installed vertically or horizontally, and operate when a well is wet or dry. Additionally, with the mechanical drive mechanism outside the well, no power cords enter the well.

Blackhawk Environmental Co. specializes in manufacturing quality pumps and controls for demanding pumping applications. Blackhawk pumps can be powered pneumatically or electrically and can work in hazardous or potentially hazardous environments. For more than a decade, Blackhawk pumps have been successfully operating in a wide range of pumping applications across the United States. Blackhawk pumps are custom manufactured in a variety of sizes and designs depending on the application.



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