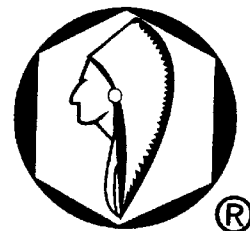


# Pumping Solutions



*Difficult Pumping Applications  
from Blackhawk Environmental Company*

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## **New Blackhawk Explosion-proof Anchor Pump Handles Explosive Situation with Aplomb, Minimizing Groundwater Recovery and Maximizing Hydrocarbon Recovery**

A top-tier gas and power marketer in the U.S. and a *Fortune 500* company takes its role as a corporate citizen and innovator in energy solutions seriously, working to protect the environment and to support the communities where the energy company works and lives. The company firmly believes in cleaning up after itself and those that came before, whether at home or overseas. In one of their natural gas processing plants, the company has accelerated remediation efforts at the site where rope-type skimmer remediation efforts were previously used to recover hydrocarbons from groundwater. In 2003, this time-consuming, labor-intensive method was replaced with the faster, easier and more efficient method for the 21st Century: the new, explosion-proof Electric Anchor Pump and Electric Control Panel designed and manufactured by Blackhawk Environmental Co.



**Blackhawk's Electric Anchor Pump with their explosion-proof electric control panel (shown) are designed for pumping hazardous fluids in explosive and volatile environments, such as refineries, petrochemical and chemical facilities.**

The Blackhawk Electric Anchor Pump Model 101E's goal is to recover 15" of hydrocarbons floating on the surface of the groundwater at a slow and controlled rate that induces hydrocarbon flow into the well while minimizing recovery of groundwater. Anchor 101Es have been installed at two of the six recovery well sites planned for this facility and the other four will be installed in the coming months. Both pumps in operation for several months now are doing exactly what they are supposed to do.

Blackhawk's explosion-proof Electric Anchor Pump and electric control panel are designed for pumping hazardous fluids in explosive and volatile environments, such as refineries, petrochemical and chemical facilities. The new armored metal explosion-proof enclosure is designed to meet UL 698, Class I, Div 5 Group D classification. The pump's top head drive allows the explosion proof motor and electrical power cords to be located outside of any hazardous and/or explosive environments in sumps or wells.

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The pump inlet is at the bottom of the pump. Since the pump acts like a syringe, creating a powerful suction to pull the liquid into the pump with every stroke and to draw it to the bottom of the pump, the results have been consistent and reliable with minimum groundwater recovery and maximum product recovery. There's been no slowdown or stoppage with these pumps. The Blackhawk pump's drive mechanism resides on top of the well head and lets the operator see at a glance that the pump is working properly. Because the pump drive is "out in the open", maintenance functions can be easily performed. Additionally, the pump can be operated and communicated with by remote control, if desired.



The pipeline shown here is typical of those being used by this US Fortune 500 gas and power marketer.

The explosion proof Electric Anchor Pump control panel provides a controlled recovery rate, reduces pump wear and tear, controls stop and start frequencies and extending and retracting speed rates. Using the control panel, the Electric Anchor Pump can be set for a low flow range of 7 US GPM or less. Made of stainless steel and Viton, the Electric Anchor Pump is ideal for pumping hazardous fluids, such as chlorinated solvents, hydrocarbons and thick, viscous liquids.

With shallow or deep recovery capabilities, the lightweight Electric Anchor Pump can produce 400 psi of pressure. It uses an active recovery process that draws product from a specified depth, at a specified rate, on demand at a consistent flow rate, independent of liquid level in the well or tank.

In addition to groundwater remediation, the Anchor Pump 101E is capable of removing water or product to 0 submergence depth and a pump capacity of 0-7 US gpm, is ideal for a wide variety of pumping applications, including landfill leachate pumping from vertical or sump wells, landfill leachate from horizontal sump or well, landfill methane gas condensate sump dewatering, landfill methane gas well dewatering, groundwater recovery and tank and sump dewatering.

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



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