



ROYAL FARMS



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June 1st, 1993

Dear Bob,

In 1972 we built our first swine unit, with some guidance from Acti-Zyme on proper lagoon design. They recommended they be over 15 feet deep, so we made them 17 feet deep. This lagoon (ANAEROBIC) took care of all the waste from 5000 pigs for 20 years before having to clean out the lagoon (mostly sand and gravel).

We added 4 or 5 pounds of Acti-Zyme per week which kept the sludge and odour under control. We now have 4 swine farms with deep anaerobic lagoons where we also use Acti-Zyme. There is an added bonus when using Acti-Zyme, it not only increases digestion, but improves the quality of methane gas produced from the lagoons.

This makes it profitable to cover the primary lagoons, and collect the methane to be burned in natural gas engines. These engines turn electric generators which provide all the power needed for the swine units. At this time we are saving \$130,000.00 dollars (US) per year from a total of about 3000 sows.

Enclosed are a few pictures of one of the farms (Royal Farms) showing the lagoons, the generator, shed and engine. I would be glad to supply further information if required.

Sincerely,

David Sharps

Royal Farms

- Have had (20) years trouble free operation with Acti-Zyme - sludge and odour control.
- Producing a clean methane gas reusable for energy purposes.
- Saving \$ 130,000.00 US per year on energy costs.