

# APPLICATIONS

## PUMPS



Seven spray arms operate simultaneously injecting fertilizer through the "0" nozzles at 2200 PSI.

### OPERATION:

Mike Gatton, District Manager for Na-Churs®, recognized the benefits of high pressure injection over conventional methods of fertilizer application and made the necessary equipment modifications on his own.

He installed a Cat Model 3517 pump which is PTO driven off the tractor to deliver 14 GPM at 2200 PSI to seven injection arms. These arms each have a pivotal foot to adjust to the ground level and hold both the active spray nozzle, as well as, a selection of other nozzles for quick change to accommodate the soil and penetration desired. He can treat eight rows of corn or beans at a time with penetration of 4 to 8 inches.



## NO-TILLAGE HIGH PRESSURE AG INJECTION

### File No. 56 Section 1

#### PROBLEM:

To find an effective, economical no-till fertilizer applicator.

#### SOLUTION:

Install a dependable, corrosion resistant, 3000 PSI high pressure CAT PUMP to inject liquid fertilizer.

#### SPECIFICATIONS:

CAT PUMPS Model .....	3517
Pressure.....	2200-3000 PSI
Flow .....	14 GPM
Temperature .....	Ambient
Fluid.....	Nitrogen/Fertilizer Rinse Water, Cropoil Neutralizer Rinse
Duty Cycle.....	Intermittent
Drive.....	PTO Tractor

#### BENEFITS:

- It provides a "no cultivation" fertilizer application. The high pressure penetrates the soil and prevents evaporation of the fertilizer. Reducing the fertilizer waste provides a significant savings and assurance of greater crop yields.
- He can apply 28% nitrogen at 30 to 150 units per square acre or Na-Churs® 16/4/8 or 9/18/9 because the pump is corrosion resistant and lasts long under these conditions.
- He can build a unit for one half the price of other fertilizer application units.

This system is equipped with a nozzle selection to accommodate soil types and penetration from 4" to 8" at pressures from 2000 to 3000 PSI.

Direct penetration to the soil region prevents chemical evaporation and assures 25% increased crop yield.

*"Customer confidence is our greatest asset"*

Products described hereon are covered by one or more of the following U.S. patents 3558244, 3652188, 3809508, 3920356, 3930756 and 5035580

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*The Pump with "Nine Lives"*

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