

# Test-tube calf born at ABS lab

DEFOREST, WI — A bull calf, believed to be unique in the world, has resulted from a series of painstaking steps by scientists at the University of Wisconsin-Madison. He was born at the ABS research facility, February 26, 1986.

The research team, led by Dr.

Neal First, removed an immature egg from the ovary of a crossbred cow, nurtured it in a culture dish (in vitro) until maturity and fertilized it with frozen semen from an ABS bull.

These newly developed methods for maturing oocytes in vitro and fertilizing them in vitro have now

progressed to a highly efficient level as reported by Dr. First and colleagues at the 1986 meeting of the International Embryo Transfer Society.

After fertilization the resulting embryo was then cultured for 24 hours in vitro before being placed, by surgical means, in the oviduct of a sheep. After five days the developing embryo was non-surgically transferred to the uterus of a recipient Holstein cow.

Mother nature then took over. Following another 282 days of gestation, a healthy, vigorous dun colored calf, appropriately named Falcon after the manufacturer of the culture dish, entered the world oblivious to the fact that he had made bovine history.

Falcon's birth marks the second successful step in a joint ABS/University of Wisconsin research program funded by W. R. Grace & Co., parent company of ABS. During the initial phase of the project, the University, in association with ABS research staff, produced several pairs of identical twin calves by using micro-surgery to divide embryos collected from some of the Holstein breed's top cows contracted by ABS.

Said Dr. Robert Walton, President of American Breeders Service, "Although in vitro fertilization is of little or no practical value to cattle breeders at the present time, these scientists view

their latest success as a very important step towards the development of a cloning technique that can eventually be used to maximize the influence of genetically superior breeding stock."

## Bedell bill ups ethanol usage

WASHINGTON — U.S. Rep. Berkley Bedell, D-Iowa, introduced legislation to require increasing amounts of ethanol in gasoline. Cosponsoring the bill are Reps. Richard Stallings of Idaho, Tom Daschle of South Dakota and Tim Penny of Minnesota.

The legislation would require in 1987 that the aggregate of all gasoline and gasoline-blended fuels contain at least 2 percent alcohol. That would mean at least 2 billion gallons of alcohol would be consumed in that year. Ethanol is made primarily from corn and has been regarded by many as a potentially large market for grain if demand can be increased and production costs reduced.

"This legislation is important because we can't get out of the surplus problems in agriculture by cutting supply alone," Bedell said. "We must find additional markets and new uses for our grain.

Ethanol blended with gasoline is one of those markets. As lead as a fuel additive is phased out, ethanol becomes a natural replacement."

The amount of alcohol required would increase, to 5 percent in 1995 and to 10 percent in the year 2000. Meanwhile, the Secretary of Energy would be required to set proportionately higher levels of alcohol to help achieve the targets.

"This is another part of our fight to improve the agricultural economy," Bedell said. "Farmers want their income from the market. To help make that possible, we need to encourage more uses for corn, to boost demand and use up the surplus."

Bedell has been a major promoter of alcohol fuels in Congress. He is a founder of the Alcohol Fuels Caucus and has led the fight for tax credits and other incentives to encourage the production of ethanol.



The result of in vitro fertilization, this calf born at ABS, represents a major step towards cloning cattle.

## Our ag lenders know both sides of your fence.

To be a good ag lender, you have to know farming as well as you know banking. And that's the tough criterion every Commonwealth National ag lender must meet.

Because at Commonwealth, we've always known that south central Pennsylvania can only be as strong as its agricultural economy.

So our commitment to farming continues with our pledge to support the agricultural community in every way possible

And that means having ag lenders in place throughout our marketing area.

Ag lenders who know both sides of your fence.

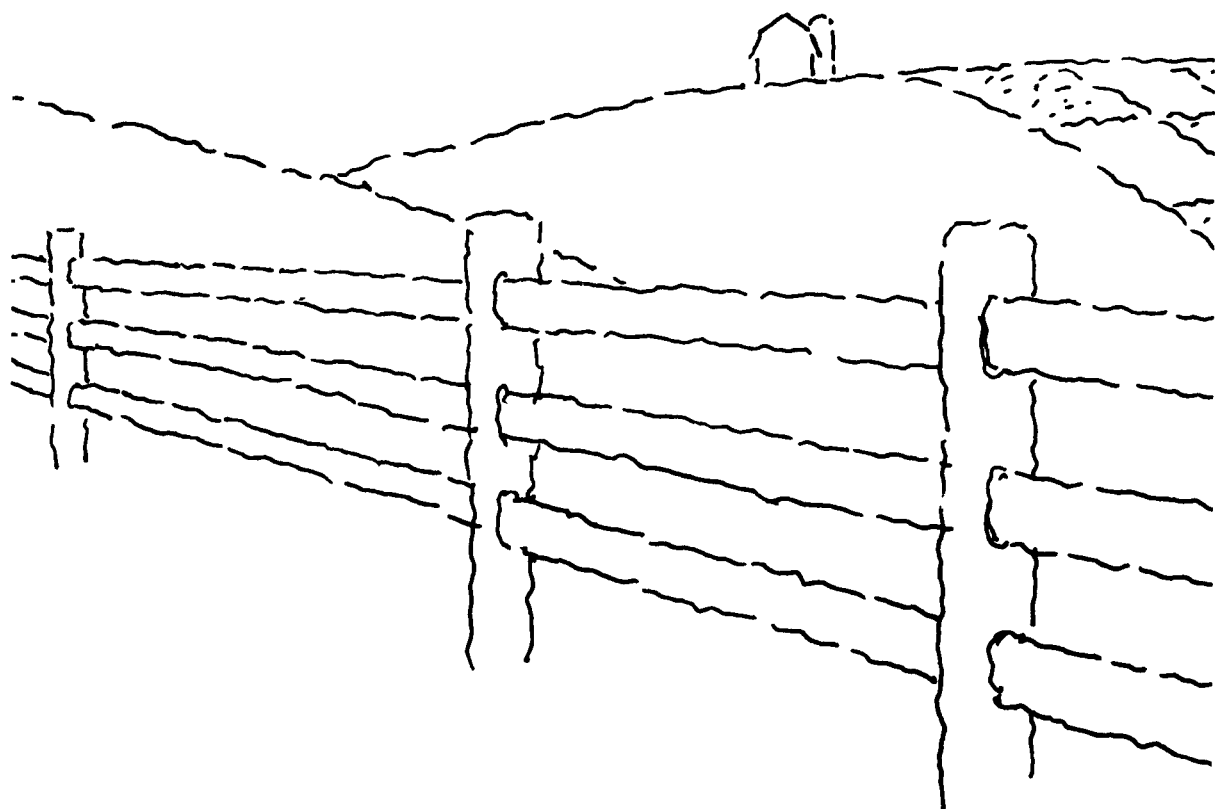
Count on Commonwealth.



### Commonwealth National Bank

A Mellon Bank

Member FDIC



## SANDBLASTING AND SPRAY PAINTING

Aerial Ladder  
Equipment  
Farm Buildings  
Feed Mills  
Commercial-Industrial  
Repainting  
Interior/Exterior



**HENRY K. FISHER INC.**

667 Hartman Station Rd.  
Lancaster, PA  
393-6530

## CONTACT US

For

**SUPER GROUND DRIVE  
TANK - SPREADERS  
PIT - ELEVATORS**

**COMPACT ROTO BEATERS**

**WISCONSIN & ALLIS  
CHALMER POWER UNITS**

**HAND-O-MATIC BUNK  
FEEDERS**

**COMBINATION MOWER  
AND CRIMPER UNITS**

**455 AND 456 MOWERS**

**NEW IDEA CRUSHERS**

**NOW AVAILABLE  
Crimping Rolls To Fit  
Your New Idea Crusher  
Speeds drying time approx. 1/2 day.**

## SMUCKER

**WELDING & MANUFACTURING**  
2110 Rockvale Road  
Lanc., PA 17602  
ANS. SERVICE 7 to 8 AM 717-687-0772