



GOLFER'S GRIN—President Eisenhower turns on one of his biggest smiles as he dons his golfing cap at jaunty angle at the start of his work-play vacation at the Cherry Hill Country Club near Denver.

Cougar, Hills Creek Dam Work To Start Soon

Portland —(U.P.)— Work will be started soon on Cougar and Hills Creek dams, the Portland District, Corps of Engineers, has announced. Engineers said \$500,000 for work on Cougar dam, on the south fork of the McKenzie, and another \$100,000 for planning had been appropriated by Congress and approved by the President.

50th Year

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SECTION TWO

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Child Custody Left In Hands of Welfare

Hillsboro —(U.P.)— Decision on which set of parents will have custody of chubby, nine-month-old David Martin Casteel until the courts finally dispose of the case will be up to the Washington County Welfare commission. The commission has been awarded temporary custody of the child, subject of a continuing court battle, by the Washington County Circuit Court. The commission will decide whether the boy will stay with his real parents, Mr. and Mrs. Arnold Casteel, or his foster parents, Mr. and Mrs. Charles Wesley Remington. David now is living with the Remingtons, who have had the youngster since a few days after his birth. The Casteels signed preliminary adoption papers at the time. Later they changed their minds and asked the court to return custody of the boy to them.

Intercontinental Missiles Of Two Types Under Study

By WALTER BARKDULL
United Press Correspondent
Moffett Field, Calif. —(U.P.)—

Progress is being made on development of intercontinental missiles that will roar to their targets at speeds up to 15,000 miles an hour, the National Advisory Committee for Aeronautics reports.

The announcement, made by the NACA at the triennial inspection of its Ames Aeronautical Laboratory here, marked the first statement by a responsible federal agency that such missiles were even considered possible.

The NACA said all of its laboratories were making a "concerted attack" on the "formidable" problems remaining to be solved. The scientists said the biggest problem is that of the heat generated in the missile by the hypersonic speeds.

And, they reported, they think they may lick the problem by making the missiles sweat like humans. The scientists call the transpiration cooling method the "most promising yet."

In the transpiration system a liquid or gas would be forced through the porous skin of the missile just as perspiration is forced through the pores of a human skin to cool it.

Wind Tunnel Studies

This, the Ames scientists said, would cool the fast-traveling missile by the evaporation of the

liquid. In addition, the liquid would cut the heat generated by acting as a lubricant to reduce heat producing friction.

Without some protective device, a missile traveling at 15,000 miles an hour would burn out like a meteor as it zoomed through the earth's atmosphere.

The NACA said temperatures in a missile traveling only 7,000 miles an hour would rapidly climb to 8,000 degrees Fahrenheit while a missile doing 15,000 miles an hour would generate the heat of a thousand steam boilers.

Further studies of the heat problem will be made in a new wind tunnel at Ames where model missiles can be subjected to air moving six times the speed of sound and heated to 1,200 degrees.

The laboratory expects to start construction this fall of another tunnel where models may be fired at speeds of 12,000 to 15,000 miles an hour through various densities of air.

The NACA said the "most significant advantage" of such high speed missiles would be their "relative invulnerability to presently known methods of defense."

Glide Missile

As one scientist put it, the problem of destroying a missile moving at 20 times the speed of sound is "even more difficult

than aiming at and hitting the bullet fired from another gun."

The NACA said two types of missiles were under study. One, the ballistic missile, would be shot from the earth's surface into space. It would be aimed like an artillery shell and descend on its unsuspecting target by gravity.

The second type is the glide missile. Like the first its rocket engine would provide its acceleration within the first few minutes. But unlike the ballistic missile it would remain within the atmosphere, gliding on its wings in a shallow arc to its target.

The NACA said the second type might permit it to be landed under control. This would permit the glide missile to be used for possible commercial purposes.

J. F. Parsons, assistant director of the NACA, was reluctant to set a date when such hypersonic missiles might be operative. But in answer to a question whether it would take 15-20 years, he said that was a "pessimistic view."

Parsons said he expected development would come in stages, with a 5,000 mph missile possibly being perfected first, then a 10,000 mph missile one.

The highest speed unclassified missile now known, the V-2 with

which the Germans bombed London in World War II, traveled at 3,500 miles an hour.

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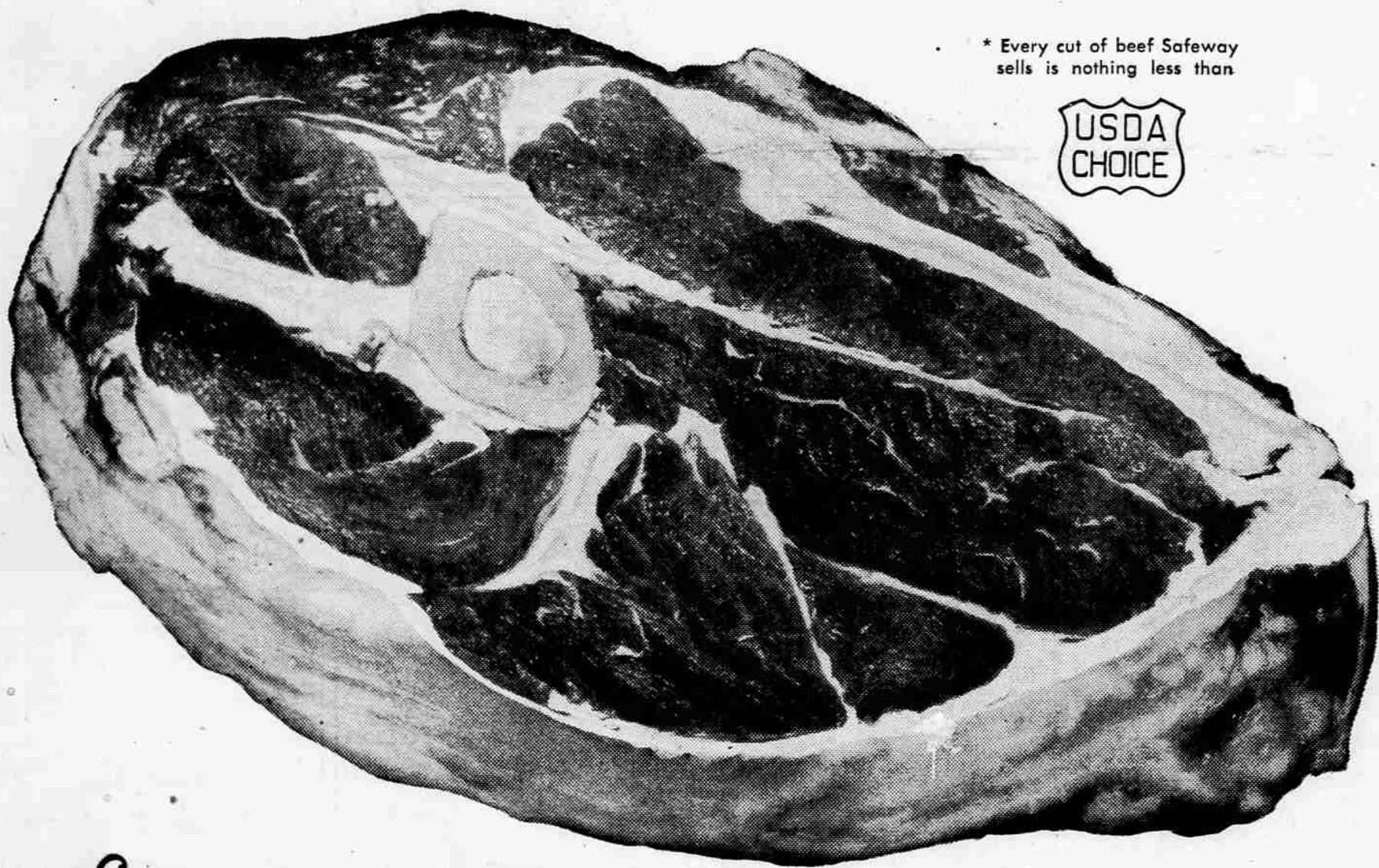
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