632 M.P.H. to a Stop in 1.5 Seconds

Officer in Rocket Sled Sets Record — Gets Black Eyes in Halt

By The Ui

WASHINGTON, Dec. 27-Lieut. Col. John P. Stapp has slammed to a stop in a rocket sled in one and a half seconds after attaining a record land speed of 632 miles per hour.

The Air Force officer suffered no lasting ill effects in his dash. However he did receive small blood blisters from dust particles on the record run and two black eyes when his eyeballs pressed against the lids at the end of the ride.

The quick-stop tests were con-ducted recently at the Holloman Air Development Center, Alamogordo, N. M., in efforts to discover the effect on airmen who bailed out of planes at supersonic speeds.

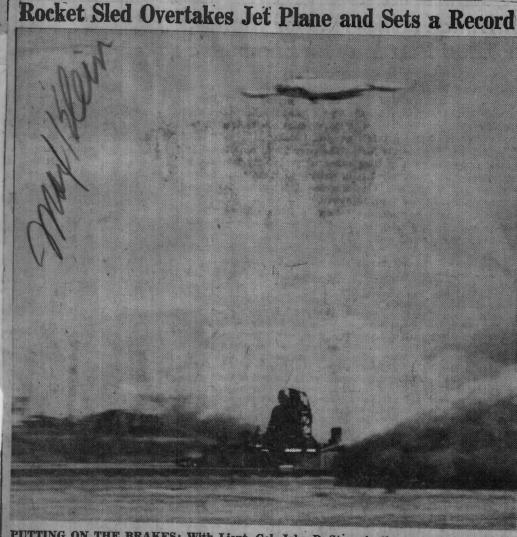
Colonel Stapp was strapped to the 2,000-pound tubular steel rocket sled, which was mounted on steel rails embedded in concrete.

His 632 - mile - per - hour speed exceeded his own previous record of 421 miles an hour set on the same sled at Alamogordo earlier this year.

The Air Force said that Colo-



Last-minute adjustments are made by Air Force and Northrop technicians to secure Lieut. Col. John P. Stapp to his The Air Force said that Colo-seat before the high-speed run. Tests were made to deter-Contained on Page 16, Column 3 mine effects on airmed who hall out at supersonic speeds.



PUTTING ON THE BRAKES: With Lieut. Col. John P. Stapp in the seat, this Northropbuilt rocket sled hit a record land speed of 632 miles an hour during recent tests at the Holloman Air Development Center, Alamogordo, N. M. At time rocket was fired, the plane was ahead of the sled but was overtaken and passed. Here aircraft catches up as the sled enters the braking area. Water spraying out behind was caused by water-braking system.

ROCKET SLED SETS MARK OF 632 M.P.H.

Continued From Page 1

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nel Stanp, in his stop, withstood a pressure equal to thirty-five times his own weight. That would make him "weigh" more than

three tons. The sled was stripped of its windshield to obtain increased speed. Colonel Stapp wore no special protective clothing, but did have a plastic helmet and a clear plastic visor to protect his head and face.

After an examination at the Holloman Hospital, Colonel Stapp had lunch and began to study the data on his test.

The Air Force said that at Holloman's 4,100-foot altitude, Colonel Stapp's speed of 632 miles per hour was equal to more than 1,000 miles an hour at a jet air-plane's normal cruising altitude of 35,000 feet: Trecall very little of the G pres-

plane's narmal struising altitude of 35,000 feet:
The sled reached its top speed from a. standing start in five seconds after covering 2,800 feet. It coasted for about half a second.
Colonel Stapp, chief of the Aero-Medical Field Laboratory at the Holloman Air Development Center, received the National Air achievement in aviation medical research in 1951.
The Air Force has said that test runs on the sled eventually will be made at speeds up to 800 miles an hour, about fifty miles an hour faster than the speed of sound at sea level.
More a Nylon Harness
ALAMOGORDO, N. M., Dec. 27 P.—Colonel Stapp set his record a rocket sled built by the orthrop Aircraft Corporation. The sled was propelled by the p,000-pound thrust of nine rock-is seat by a nylon web harness in his shoulders, legs, chest and ap.
It is the shouled to hold a press conference here today to describe in speedy run, it was postponed und car trouble typenty miles from Los Angeles and could not set here in time.

Blacked Out at Start

Blacked Out at Start LOS ANGELES, Dec. 27 (P)— The announcement today reported hat Colonel Stapp, who has both I, D, and Ph. D. degrees, made he rocket sled test on Dec. 10. In the acceleration phase the officer was subjected to about nine G's, or nine times the pres-sure of gravity. It blacked out his cresight for about two sec-onds shortly after the run began. From top speed to complete stop, From top speed to complete stop, the 44-year-old scientist was sub-jected to an average of twenty-seven G's for a little more than a second, jamming the blood to the forward part of his head. "From blackout and sightless-ness," he said in a telephone in-

roun blackout and signtless-ness," he said in a telephone in-terview today, "I saw bright yellow and then vivid reds. The pain was intense, so intense that

11/28/09

PRINTED IN U.S.A.