



THE NAVY'S NEW HJP-1 helicopter hauls a "litter patient" in a basket suspended on a cable beneath it during tests at the Naval Air Test Center, Patuxent, Md. Built by the Piasecki Helicopter Corp., the versatile rotor wing plane will carry five passengers, or three litter patients in addition to pilot and co-pilot. It is designed for use with the fleet on carriers as a "guard plane" to pick up pilots who have to "ditch" and cruisers to replace catapult planes for ship-to-ship and ship-to-shore passenger and cargo carrying.

Navy Says Carrier Plane Can 'Deliver' Atom Bomb

By Maureen Gothlin
WASHINGTON—(AP)—The Navy Saturday night disclosed details of tests which, it said, prove that it is "entirely feasible" to launch long-distance atomic attacks from aircraft carriers.
The tests were conducted March 7 with the Navy's record-holding long-range bomber, the P-2-V Neptune. They showed, the Navy said, that with carriers serving as advanced bases, the Neptune could hit any target, however remote, with A-bombs.
The P-2-V used in the tests took off from a carrier with a 10,000-pound dummy bomb, winged it 2000 miles, dropped it, and then returned more than 2000 miles to land at a ground base.
Friday night at San Bernardino, Cal., Adm. Louis Denfeld, chief of naval operations, said the Navy has more than one plane capable of carrying atomic bombs off carriers. Both the P-2-V and the new

Four Questions On Gravity Answered

By J. Hugh Pruett
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Four questions recently were propounded to me by one who telephoned that he wanted to settle a lively argument at his home.

(1) "Does gravity act only on the earth?"
Strictly speaking, "gravity" is a terrestrial term and refers to the gravitational pull toward the earth's center on the object minus the centrifugal force due to rotation tending at the poles, things weigh a little less on the earth's surface than they would were the earth not turning.

On All Planets
But generally speaking, the same sort of forces exist on all planets. The more general term "gravitation" applies everywhere in the vast universe of worlds and stars so far as we can ascertain. Even for those who shy at mathematics, there is surely something of grandeur in the very recital of Sir Isaac Newton's great law of universal gravitation. Without explanation, we state it?

"Any two bodies in the universe attract each other with a force which is directly proportional to the product of their masses and inversely proportional to the square of the distance between them."

(2) "What force keeps the planets in motion?"
Around A.D. 1500, an angel was said to drag each planet along. No force is needed. In the far-away "beginning" some sort of violent action likely set them going out in space. Once moving where there is no frictional resistance, it would require force to stop them. Motion is just as natural as rest.

Another of Newton's laws states that "a body at rest remains at rest and a body in motion continues in motion in a straight line unless acted upon by an outside force." An automobile on a level road comes to a stop after the engine is turned off because of the resistance of the road, the air, and its own bearings. The more these are eliminated, the farther it will roll.

(3) "What keeps the earth spinning on its axis?"
There is practically no force to stop it. The friction of the tides is slowing it slightly, so that its period of rotation (length of day) is increasing about 0.001 second per century. Almost the theoretically impossible perpetual motion.

(4) "What makes a planet stay in its curved orbit around the sun?"
It is the balance between the gravitational attraction toward the sun and the centrifugal force outward due to its motion. A rock whirled around on the end of a string tends to pull outward from

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By



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Mine Workers Back Lewis; Call 'Holiday' a Bargaining Aid

PITTSBURGH—(AP)—The United Mine Workers said Saturday that miners "without question" approve of their two-week work holiday and believe the layoff will "pay dividends" when "contract-writing time comes around."

This warning to coal operators, who said they it all along, was printed in the Anthracite Tri-District News, official publication of the United Mine Workers in three hard-coal districts of northeastern Pennsylvania.

This is the mining region where producers have provided the liveliest active opposition to the two-week memorial and protest holiday called by John L. Lewis last Monday for 463,000 miners east of the Mississippi river.

The publication said that "rank and file members were quick to point out that the move would put

the organization in a more advantageous position when contract-writing time come around and would ultimately pay dividends."

The Tri-District News also hinted that part of the dividends, for hard coal miners at least, would come directly after the memorial and protest period against U.S. Bureau of Mines Director James Boyd ends March 28.

Full Operations
Anthracite producers would "likely" schedule full-time operations when the work stoppage ends, the News said, thus making up the two-week wages lost to men who prior to last Monday were working an average of three days weekly.

The running verbal battle between Lewis and the Pennsylvania hard coal producers highlighted the first six days of the dramatic demonstration ordered by the UMW chief.

Federal Agents Set Potato Conferences

WASHINGTON—(AP)—Two hearings will be held in Oregon by the Department of Agriculture on proposals to enlarge potato marketing program areas.

A proposal to include Jefferson County with Crook and Deschutes County will be opened at Redmond, April 14. A similar bid to tie Lake County and areas to Klamath County will be opened at Merrill, April 11.

The program provides for regulation of shipments of potatoes from production areas and is designed to stabilize producer prices.

Local Man Found Dead

OLYMPIA—(AP)—Deputy County Coroner Ralph Gilby identified the body of a man found alongside railroad tracks Saturday in the vicinity of East Olympia, a railway station near here, as Carl B. Axling, a middle-aged plywood worker of Eugene, Ore. Gilby said Axling "apparently had fallen from a passing train."

Denies Hardship
The hard coal miners publication also printed a denial by Lewis that his work stoppage was endangering health and financial conditions in the eastern Pennsylvania mining area. Lewis called industry claims of anthracite shortages an "obvious exaggeration of existing conditions." He backed up his previous disputation of a claim by Ralph E. Taggart, hard coal spokesman, and the anthracite miners' part in the stoppage was a contract violation and therefore "illegal."

Nevertheless, one week idleness in the majority of the nation's mines had the following results:

1. Layoffs for two to three week periods among 60,000 to 70,000 employees of coal-hauling railroads throughout the east.

2. Reduction of the nation's coal stockpile from an estimated 67,300,000 tons by some 11,000,000 tons.

3. Spreading unemployment among Ohio River bargemen idled when employers had no coal to haul down stream from the Pennsylvania and West Virginia fields.

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