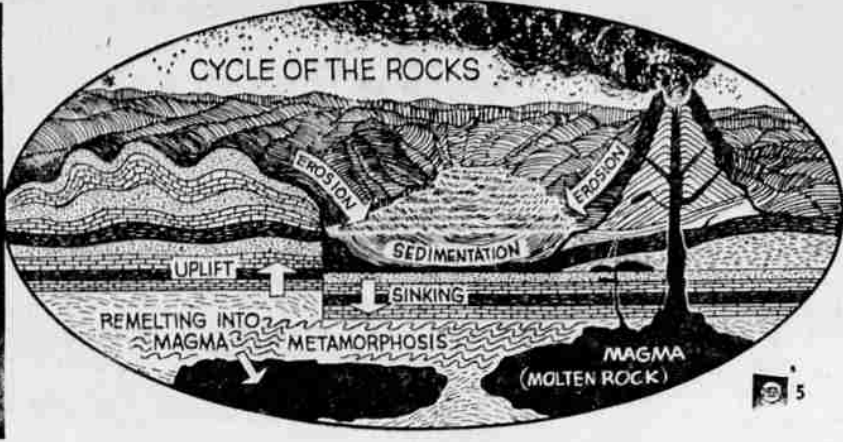
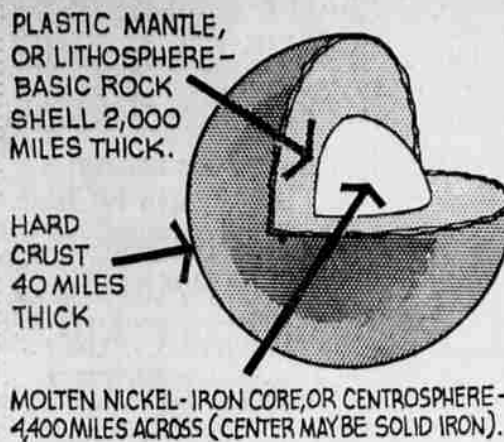


Earth, Stars and Man (5) Shaping of the Earth

by Don Oakley and John Lane



Though men have peered billions of light years into space, they have penetrated only a tiny distance into the planet that is their home. But slowly over the years, chiefly through the use of seismographs and the study of earthquake waves, a reasonably certain picture of the structure of the earth has emerged.

The globe consists of a heavy core of molten rock under tremendous pressure. Around this is a plastic, fairly uniform mantle of rock. Finally, an eggshell-thin crust.

It is on this crust, three-fourths covered with water and wrapped with a thin blanket of atmosphere, that man lives and has built his complex modern civilization. And it is from

this crust that he mines the resources that make that civilization possible.

Also, it is on the crust that geologists read the records of the great changes the earth has undergone since it was formed. They see a cycle of erosion and rebuilding that began at the beginning and will continue as long as the world has water and air.

As soon as the first land masses of molten rock (magma) cooled, rain and wind began to break them down, leaching out minerals and concentrating them in deposits. Rivers carried sediments to the seas where their accumulated weight pressed them into stone. More pressure sometimes turned them into a class of rock called metamorphic—for instance, limestone into marble.

Eventually, great areas were lifted from the sea by the restless crust and eroded again. Other times more weight and pressure were added until the stratified rocks were fused into magma again.

The cycle is infinitely slow, and may be halted and reversed many times. But it goes on.

Nineteenth-century geologists knew that the thousands of feet of sediments that have been laid down since the earth's beginning took untold ages. But they could only guess at the age of the earth. It was not until the 20th century that men found a cosmic clock that had been running since earth's time began—a clock they could read in the rocks.

NEXT: The Age of the Earth

'Fast Buck Artists' Bilking Residents Of PNW

SEATTLE (AP) — "Fast buck" artists with a chance of fantastic profits have bilked Washington and Oregon residents out of several hundred thousand dollars in the past 15 months through a life insurance stock-sale swindle, a government official said Thursday.

James E. Newton, regional director of the Securities and Exchange Commission, said he feared the "situation would get worse before it gets better."

"This is our most serious current type of fraud," said Newton, whose agency is the nation's watchdog over stock and securities transactions.

Newton said this is the way the racket works:

Fast-talking sharpshooters buy up stock of one of the West's many newly formed life insurance companies at the going market price and then peddle it in another state at from four to 10 times its true worth.

The glib salesmen tell their prospective customers they are being offered the stock below the going rate and are getting in on the ground floor of a new com-

One of the most active stocks sold in Washington in the past year and a half has been that of Treasure State Life Insurance Co., with headquarters in Butte, Mont.

Newton estimated that bunco artists have cheated residents of this state out of at least \$150,000 in the sale of Treasure State stock, alone.

The SEC filed suit in U.S. District Court in Yakima, Wash., Sept. 22 seeking a restraining order against nine men it said had been peddling the Treasure State stock in Washington since June 1959.

Newton said they were not a single sales crew, but worked independently.

Only two of the nine had been located a month later for service of the complaint against them.

A date for hearing of the civil action will not be set until all have been served.

The complaint accused the men of using the mails to defraud, making fraudulent misrepresentation about the company's structure as required by the Securities Act.

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State Public Utility Commissioner Jonel C. Hill authorized construction Tuesday of additional tracks by the Great Northern Railway over Washburn Way, Midland Road and Anderson Avenue.

Construction, in fact, is well along and tracks have been bedded except across the three roadways, said GN Klamath Division Superintendent W. L. Smith.

Work began in May and the PUC heard the request for additional tracks at grade at the three intersections here late in June. Tuesday's decision is the result of that hearing.

The decision bears the stipulation that the county must begin work on an overpass across the tracks on Washburn Way within three years.

The county court indicated during the June hearing that it planned to begin construction within that time.

GN's additions will consist of four new "classification" tracks for "blocking" trains. On those tracks cars will be sorted and trains assembled.

The company also is extending three tracks about 25 car lengths each and is revamping the switching lead where cars are guided to the various classification tracks near Midland Road. The lead track will be elongated and leveled.

Crews have leveled a slight hump left in the middle of the switching yard when it was built in 1930. The swell has caused trouble in switching cars.

Work by the railroad is expected to cost about \$330,000. Construction is expected to be complete sometime in November, GN officials say. The main reason expansion was ordered was to accommodate increased rail traffic expected to result from an anticipated burst of industrial growth here.

In addition, the railroad has promised to contribute \$100,000 toward construction of the overpass that is expected to cost from \$220,000 to \$400,000, depending on the size finally approved.

The county court has saved \$100,000 for the project, including \$20,000 from county tax money and \$80,000 from state and federal secondary road funds.

The court also has requested \$200,000 for the project from the Air Force, since the route is expected to provide clean access to Kingsley Field.

Air Defense Command headquarters in Colorado has okayed the request, county commissioners say. The Air Force decision still is pending in Washington.

Size of the overpass will depend on how much money the Air Force adds to the fund, say county officials. The bridge may bear two or four lanes, or it may bear two lanes with room to add extra lanes later.

The county plans to build a four-lane road from South Sixth Street to Kingsley Field during the next few years, the officials said. The route is expected to relieve traffic congestion on Washburn Way and Summers Lane.

Lumber Mills Production Dips

CORVALLIS (AP)—Some Oregon lumber mills reduced production or limited buying to higher quality logs the past week, the Department of Agriculture said Tuesday in its weekly industrial report.

Despite this, the log market remained firm, the report said.

In the Northeast Willamette Valley, No. 1 Douglas fir peelers brought \$105 to \$115 a thousand feet. No. 2 brought 95 to \$105 and No. 3s \$80 to \$95.

Hemlock, white fir and cedar ranged from \$28 to \$40 per thousand, depending on quality and demand.

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Respected Former Oregon Republican Governor tells why WE'RE STRONGER WITH

4—(Sec. 1) Statesman, Salem, Ore., Sun., Oct. 16, '60

The Oregon Statesman

"No Favor Sways Us; No Fear Shall Awe,"—From First Statesman, March 25, 1861

CHARLES A. SPRAGUE, Editor & Publisher WENDELL WEBB, Managing Editor

For U. S. SENATOR: MAURINE NEUBERGER

It was the intention of The Statesman to support Richard L. Neuberger for re-election as United States senator. We believed he had proven himself in that important legislative body as a perceptive and constructive legislator. After his death, his widow, Mrs. Maurine Neuberger, became the Democratic candidate for the Senate seat. The Statesman extends its endorsement to her.

This is not based merely on sentimental attachment to the memory of her late husband. Undoubtedly she will attract considerable favor on that account. But Maurine Neuberger has demonstrated her competence in the political arena in her own right. She served three terms in the Oregon Legislature, was a top vote-getter in her contests. She was, moreover, a very effective legislator. We recall her demonstration of calm, cool-headedness, using logic, under the former restrictive legislation, a prelude to victory in her effort to repeal it. As representative, she was much more popular than her husband, a state senator—at least with Republicans.

There was a unique relationship between Maurine and Dick which was recognized and respected. Dick counted her as a member of the "team," and so she was. Dick was a man whose mind was extraordinarily fertile in ideas. Maurine can't begin to match him in that respect. But not all of Dick's ideas were belligerent. If less imaginative, Maurine is more practical. She gave an effective balance to the team, as a working partner.

Mrs. Neuberger has the same broad outlook on the responsibilities of modern government. She has both awareness and comprehension of the importance of international relations. She is progressive in her views without losing her head in the clouds. Her years in Washington as a senator's wife gave her the acquaintance which will give her a running start as a member of the Senate. We would divide with her on a good many specific questions, but not with her overall program of constructive effort, weighted with a high sense of responsibility.

To sum up, we believe that Mrs. Neuberger has a wider conception of the responsibilities of a senator both on the national and international areas, that she is more progressive in her attitude toward solving the problems of our times, and that she has the personal qualifications, poise, intelligence, human understanding which go to make an able representative of the people. She has also the advantage of an earned high standing in that very exclusive club, the United States Senate. Hence we recommend her election as United States senator from Oregon.

MAURINE NEUBERGER IN THE U.S. SENATE

Charles A. Sprague...

Republican Governor of Oregon in critical years, editor and publisher of The Oregon Statesman, a delegate to the United Nations Assembly in 1952, expresses the thoughts of many Oregonians in his straightforward editorial of October 16th:

"Maurine Neuberger has demonstrated her competence in the political arena in her own right. She was, moreover, a very effective legislator."

"She has both awareness and comprehension of the importance of international relations. She is progressive in her views without losing her head in the clouds."

"We believe that Mrs. Neuberger has a wider conception of the responsibilities of a senator both on the national and international areas, that she is more progressive in her attitude toward solving the problems of our times . . . we recommend her election as United States Senator from Oregon."

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