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## tok's Muda

## By Lyle Nelson Star-Bulletin Writer

ENEWETAK: MARSHALL IS-LANDS .- Slithering through shallow waters over a dirty yellow coral, the moray eel tried to hide under a rock. Then it escaped our interest, slithering back into the turquoise blue waters of the bomb crater.

The ecl looked healthy.

i2m

" But 19 years ago a fireball with a sun-like intensity blew the hole in the reer that now is the peaceful home of the frightened eel.

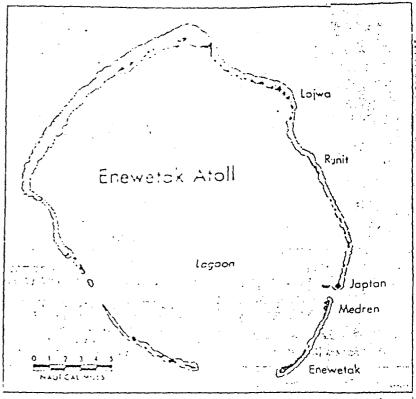
The moray lives to be 100, they

say. But the people issue is, how healthy is Enewetak Atoll today for people; for 450 Marshallese islanders returning home from exile after a 30-year forced displacement and 43 nuclear tests later?

THE EEL RARELY sees people because the crater is located on Runit, a long, thin part of Enewetak whose soil was contaminated by a shower of plutonium-237 that made it an inhospitable land for humans.

So the eel, and the white ferry terns in the scaevola brush have had the island to themselves since the Enewetak. Proving Ground shut down for keeps in 1958, ending a decade of keeping the Cold War warm.

The Energy Research and Development Administration (ERDA), the new name for the AEC, has conducted environmental surveys in recent years, sampling the soil, the water table, the brush, the reef life to determine how "hot," how changed. how worthless this islet may be.



TRANQUIL LAGCON AGAIN—Islands of the atoll where things ar changing back.

Last week the Army gave newsmen a field trip to Spewerak where soldiers from the Scholield Barracks have launched a 320 million cleanup effort expected to take two years; some say live.

BEFORE GOING ashore at Runi we placed a double gauze mask ove our faces, put rubbers over ou shoes and wore a sensitivity badge When the trip ended we were mon tored by instruments, that can deter

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mine, as jokesters suggested, how much we "glowed." We didn't.
We had motored down a grassy path, the brush slapping the sites of our truck. On our left was the long groove of an immense trench dug out from a concrete blockhouse so that instruments inside its slit openions, built like a nulbur for men. ings, built like a pillox for men, could have a clear view down the trench and into the eye of the white

storm at ground zero.

These instruments would convert the story of the blast, told in milliseconds to jumping, erratic lines on a graph, then photographed remote-ly, then recovered in a harrowing James Bond chase:

A HELICOPTER lands near the blockhoise, the men in the strangs suit; as if a visitor from another galaxy, dashes through a concrete galaxy, dashes through a concrete maze through thick ''idenged' doors to the 'photo plates. Then he slaps them into a lead satchel, undressed, dressed in a new protective suit that is waiting for him, back through the maze to the helicopter for the dash to nearby Parr Parry Island (now called Medren) for a bath and a bath for the helicopter, all in practiced minutes and before fallout could

poles, a mad golf course in which each flag represented a shaft sink by scientists to determine the depth of penetration of radiation into the

Around LaCrosse, code name for a second, larger crater, from stanchions that once held acres of instru-mentation equipment, were bent with great violence, as if a truck had backed over a parking meter.

ARMY CAPT, Charles Day, a Dr fense Nuclear Agency radiation spe-cialist with degrees in physics, held cialist with degrees in physics, held his Geiger counter to one crote-quelly twisted steel but that had meited under impact. The needle shat to the right. The piece was "hot" with cobalted). This and other "feetiam-nated" metal will be buried unfor a cement cap over Caetti.

Radioactive jook left over from the first on many metal-mailers of security of the cast of the cast by me a Marshalasse. 2013 he transported by track also ard beautiful to Caettis, thrown into the water, to

transported by trace and are reach to Caetus, thrown into the water, to which will be added contaminated toll mixed with cement to form a strange slip. The Army estimates the concrete cap built arop this pile will create an elliptical full 20 feet high.

One reason the cleanup time and costs are uncertain is that several ground zero sites on Bunit were used several units, Day and that after a cost ine damage would be buildored and another shot prepared at the same place. There was haste, Both the U.S. and U.S.S.R., both testing are buffeled by an outraged work in the late 10.0s.

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"THE PURPOSE OF the cleanus is to reduce the amount of radioac tivity to acceptable levels to enable people to resume living here." Day said. The exception is Runit.

Roger Ray, a 25-year veteran of the AEC and the test series, is an adviser on the environmental appets of the cleanup. He said. "It makes sense to leave this, island tRunit) alone, and let nature take its course rather than try to remove the course rather than try to remove the

"That did happen in the case of "Mike," code name for America's first hydrogen bomb. Placed on little Elugelap, Elugelap disappeared on Oct. 11, 1992. Mike wan't really a weapon, it was too big for either air-

plane or rocket.)
"From a radionalizar standpoint,
Enewetak can never be returned to
the way it was found," Ray went on.

"But there's a difference between a soldier working here a short time, and Marshallese living here a lifetime," he said.

The cumulative effects of radiation is the worry

TO SHAPE A cleanup plan ERDA, working for several years with scientists of different specialties at the University of Washington and the Lawrence Livermore Laboratory studied each island in the atoll with

a plan which could certify each islet for future land use.

Even helicopters were used to monitor radiation levels at the lest sites in addition to extensive field work, even on Runit, where men wearing only shorts, checked subsurface soil.

These findings, Ray said, showed

face soil. These findings, Ray said, showed that of some 40 islets in the atoll that stretches 27 miles in length, which is over the horizon to the naked eye, and 17 miles wide, 12 are considered nonradioactive, 10 contain no debris from the tests and 22 are suitable for hobitation. Thereth some are not habitation, through some are not

worth it.

Later the monitoring equipment and techniques will be used on Bild-

ERDA made a movie in the Marshallese language about its work at. Runit to show the returnees why the island is to remain off-limits. . .

"IF YOU LIVED on an island in the south lagoon you would be as safe as you would be in most U.S. cities," said Ray, "On the northern islands the danger factor would increase by three or four for the average person over a long period, above

what is acceptable."

Ray, a man with humanitarian qualities, which may appear at olds with his AEC background, is popular with the returnees.



HOT METAL-Twisted stend is checked for radiation by a specialist, Army Capl. Charles Day. Reporter Nelson in background keeps his distance. - Army Photo by M.Sai. Jerry Shepherd.