

lewis-121866

(1. LS antennas :16)

(AUDIO TAPE OF STAR NOISE).....
.....(SOUND UNDER, 8 seconds)

The noises are being picked up by the radio-telescope at Clark Lake, about 12 miles north-east of Borrego Springs. Built in

(2. LS aerial :05)

1959 by Convair, the installation has been operated since 1963 by the University of Maryland.

(3. sign :04½)

This and the other radio-telescopes around the world are ~~making~~
~~making~~ making a comprehensive map

(4. antennas :03½)

of the various sources of radio energy in the Universe. Some

(5. prof cranks :06)

of the studies are relatively close to home. ~~Dr~~ Doctor William Erickson, who designed the Clark Lake

(6. CU Erickson :07)

facility, adjusts one of the 16 antennas that soon will be used to study the Sun. This particular project is being financed

(7. antenna :03)

by the National Aeronautics and Space administration. The Sun,

(8. LS ant/sun :06)

like other stars, emits not only light, but also ~~other~~
other kinds of energy, not visible to the human eye.

(9. MS, CU Geo & prof :07)

Doctor Erickson told me that by recording the various kinds of energy in a continuous spectrum, scientists may get some clues

(10. plane :05)

as to how that energy is produced. By design, the Clark Lake radio-telescope is far removed

(11. LS installation :06)

from civilization. You can land a plane of the flat lake-bed or drive in from Borrego on a dirt road. It's

(12. trailer :05)

an adventure ~~in~~ in camping out for the students and university faculty members. There are two main

(13. inside trailer :05)
site.

reasons for the remote ~~site~~ First, the antennas ~~are~~ have to be located on a large expanse

(14. 2-way radio :08)

of flat terrain. One of the antenna banks is 4-miles long, and when someone is sent out to work on it, ~~he~~ he uses a walkie-talkie to communicate

(15. pan interior :09)

with the receiving shack. The second reason is that Clark Lake is located away from man-made sources of electrical interference.

But ^{it's} not completely isolated.....((ROLL AUDIO TAPE))

(16. shots of equipment :20)

.....(AUDIO TAPE).....

(VOICE OVER 10 seconds).....MORE

(16. (cont.))

.....(sound under) The noise comes not from
outer space, but from the short-wave Citizens' Band. It's possible,

(17. prof works :09½)

though, to separate man-made signals from the celestial ones.
Doctor Erickson explains what scientists are learning by tuning
in on these so-called "Radio Stars".....(roll audio tape)

(18. shots of installation and prof :54)

.....(AUDIO TAPE).....

.....(END CUE: "Our whole galaxy of stars, of which the Sun is only
one of the stars."
-gl*

TAIL FOLLOWS

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