miles due east of downtown Los Angeles. The horizon is unblocked to the NV and SE, and is obstructed by low, but rugged, mountains to the NE and SV. The latitude/longitude is roughly 34°5'N/115'40'W (more exactly, 34°8'N/115'41'W, by later check of Dept. of Interior map-DEE) a few miles morth of the eastern panhanale of Joshua Tree Natl Monument. There aren't many radio stations in that area; the is Palm Syrings, 55 miles. Distances are approx. bearings to "nearby" The location DEE selected is in an unnamed valley about 130 airline

Los Angelės Las Vegas - 145 miles - 270° - 150 - 5° Mexicali - 105 Palm Springs - 55 - 120 miles -

The 6000 foot antenna is terminated to a handy U.S. Coast and Geodetic Survey marker. No attempt was made to tune this. (No, it is not that EEE has better sense than to set off for a mile walk across the desert on a pitch black night - it is because he get loot-DJK). DEE ran a third antenna along the side of the road which runs fairly close to due N-S. I'm not aware of his results. (The third antenna may no longer exist, having been constructed from 8000' of #36 Poly-Thermaleze magnet wire, costing around 55. The difference between it and the other two was that it had less gain around 55. and, because of horizon blocking and lack of pertinent signal areas, signals from other directions often dominated. It was not terminated. CKDA was strong on the 'HE' but so was KDKA s/on-1220 and 1020 respectively- the most obvious conclusion was that signals even 90° from loop orientation would be received if there was absolutely and somebody goes out with a compass. (Hap now on hand-DEE). The estimates are prolabily within 20° and could well be much closer than that. Both of these antennas were terminated in resistances. In the case of the 135° antennas the ground rod is in rand which was wet to a depth of perhaps 3° by a thunderstorm. Attempts to adjust this resistance to eliminate KMBR-680 San Francisco exhibited little success. (It is four feet from the ground runs out at 135*. A second antenna consists of about 6000 feet of insulated #22 hookup wire on the ground aimed at about 55*. The actual birection of the anternas is uncertain until DEE gets a topographical map of the area. Two Beverage antennas are presently installed there; a 2800' antenna suspened two nothing else on the frequency.-DEE), \$

EQUITYERY In addition to the Beverage antennas, we had between the three of us, 3 Realistic TRPs, a Falcon car radio, a Heath GR-78 equipped with a mechanical filter, and a shielded fermite loop antenna (similar to Space Magnet but not constructed by Mr. Worcester).

CONDITIONS . Reception, conditions seemed about normal for labor Day -- rather noisy but not impossible. There was considerable thurderstorm static -- extremely local in the late afternoon. Almost all Diving was done on the Beverages, however; the "Space Rignet" was broken out around 0230 local time PM for a condition check. At that time, conditions seemed fairly dismal. Noisy with only the PC and midwest MSPers and a few powerful Latins audibbs. Considerably better results were being had with the Beverages at that time. Immediately upon arriving home Monday, the GR-78/ "Space Magnet" combination was checked out at home and found to be operating reasona-

Comparisons of the same frequency on the two antennas were impressive. Stations barely audible on one antenna were frequently dominant on the other. Although extremely strong signals from the "non-favored" direction were able to get through (XEN-)00, HIKC-950 on the 55° antenna and KSI-1160, KXEI-1540 on the 135° antenna. in numerous latin Americans along with incredible amounts of thunderstorm triatic. Although nothing exotic was logged, a number of stms were noted, some at excellent level. The 55° Beverage, on the other hand, pulled thru good sigs from the nidwest and, after 0230 local, from several ECNA stations. The thunderstorm noise on this antenna was much below that on the other antenna. Curiously, no Hawalian or DU stations were noted on the 55° antenna (nor could any be found with the "Space"). the difference in nayoul strength was extreme. Hagnet"); however, the Tarawa carrier was noted weakly on the 135° antenna. IUSULTS In general, the Beverages lived up to expectations. The 135° antenna pulled

the untonna are going to The Boverage onterna sceme to be everything it is reputed to be, provided that one accepts the hard fact that strong stations off to the sale of get through. I wish I had a bigger backyard.

> Ses IDG Not all of the stations heard on the Heathkit GR-78 were written down, but the scaling is probably a fair sampling: The date of reception was 4 September 1972 (GRT) and all times are in GMT. Antenna direction, in degrees, is in parenthepling: The date of reception was 4 September Antenna direction, in degrees, is in parenthe-

Strong IA (135). Not IDed but believed to be a hexacon. Belize (135) poor with play. Helize (13) poor with play. Fair to good 35 (135) assumed to be a Mexican.

KBGI Boise dominating on both antennas. EE under (55) assumed to

0304-7310 910 Ciudad Obregon) w/KPHO way under (135). KPHO Phoenix dominint w/KEAO Mexicali under (55).

80 XEW Mexico City at local level (135). XEW weak but dominant w/vy wi

ž 969 WIS Chicago clear and 100% readable (55) w/talk pgm. w/wk mx (135). EE under at one point (55). Lots of manage

55 **%** 630 630 Kiri at local level (55). Misc. distorted sudio (135). WCCO Minneapolis clear w/rel pgm (55). Wk mx w/lots of noise (140). Kiri w/local-like sig (55). Mixture of Kiri & SS (76J?). Sometody a few hundred cycles off freq. on the high side creating an anneying het (135).

0728 0714 0738 (sic?) 790 790 CKOK Penticton, B.C., fair w/some EE QRM (55).

WCCO loud and clear -- no sign of KIKI (55).

KABC Los Angeles good w/mx under (55). Music (not KABC) dominant w' rel (not KABC) under (135).

HJKC Bogota, Colombia, fair to vy good (135). HJKC pour w/EE Lx under (55). Estimated 4 or 5 S-units difference in HJKC signal.

1745-0800 950 Het and several stations (?-DEE).

SH19-C626 646 890

CMW Habana u/KFI w/readable ID 0826 (135).
SS fair to poor, not IDed (135).
SS o/u KOMO OC w/lots of noise (135). ID may have been "Nueva

0914

or something similar; nothing listed remotely like this, XEHC Guadalajura stop jumble w/M. Commercial" ID (155).

HIDD Hirva, Colombia, H. Colossal, poor to good atop jumble (145).

HICG Dogoth, Colombia, H. Santa Fe, fair to good atop jumble (145).

EE nx (15) w/no sign of HICG.

YVNII Giudad Ojeda, Ven., s/on w/good to fair nigual thru moine (185) "Madio Petrola."

730 1400 HJFF Perira, Colombia, w/clear strong ID (155). CKLG Yancouver wk w/Colombian even weaker (135). CKLG weak (':5).

fair u/KiUN on 55. KuIQ u/KSLY (55).

int written down but also noted: 55-MBBH gd, WABC gd, WCBS pr, WABC fair, WEAP gd,

iid. :/d, WONJ or KOKA-1550 fair, WCY fair. 135-SS-880 (Peru?), carrier-851 (Peru?,

carrier-844 (Tarawa), WML gd, WBAP gd, TT-1550 1010 CMT, KXEL fair. Conspicuously

riccin.: KORL, KIKI, Cubany 670 & 720, ZMS-1540. 1024-1032 KIUN Pecos, Texas, TT dominating on both but stronger on 155.