



Ed Dziwigo, on the left, and Jim Norlem, check out one of the TACAN units. These men of the Federal Aviation Agency affectionately call the machine "The Beast."

## O'Neill VORTAC Unit Is Vital Link In Ground-to-Air Communications Net

Imagine, if you can, a machine that counts to one million in one second. The lights flash so fast that all you actually see is numbers designating the hundred thousands. It's too fast for the mind to comprehend.

There's a machine in O'Neill that can count that fast though and very few of us have ever had the chance or taken the time to see it. It's located in the red and white checkered building at the airport and is used to check the wave lengths of radio signals that are constantly being beamed to the five airways that pass over O'Neill.

And because of this important task of keeping pilots on course, O'Neill has gained another citizen.

Ed Dziwigo (pronounced JUV-GO) was appointed permanent maintenance man of the highly complicated equipment Saturday and will move to O'Neill as soon as he can make arrangements.

The equipment Ed is to maintain is called VORTAC and consists of electronic devices which send out continual very high frequency radio waves to help pilots determine their bearing, identification of sending station and distance from the sender.

The first part of the word, VOR, signifies that part of the equipment that sends bearing, identification and voice messages. The last part of the word, TAC, also sends bearing and identification but adds the important information—distance from the sending station.

Presently Ed is being assisted by Jim Norlem, who has been in O'Neill since April as a relief operator. Jim will probably be transferred to another station

now that Ed has taken over permanently. The seemingly unimportant VORTAC station actually plays a major role in communications for the Federal Aviation Agency of which it is a part.

At least one plane every 10 minutes passes over or close to O'Neill and the part the equipment plays in keeping these planes on course is vital. Since the advent of modern jet flight planes passing O'Neill must be within instant contact with Denver and this equipment, in addition to other functions, makes that possible.

The station was commissioned in April but the initial equipment was first put into operation in April, 1958. The TACAN equipment—distance finding—was put into operation in April of this year however making the station complete.

The station is also equipped with its own power plant in case of local power failure. The power plant begins operation the instant there is a power failure and continues operation until the "brain" equipment is satisfied again with local power.

The completely automatic equipment is a marvel of precision. There are two TACAN units. If for any reason one of them fails the other will begin to function six seconds after the others failure.

If the second machine fails, it will return operation to the first machine and if that machine is still out the equipment will go off the air within 60 seconds.

It is also possible for the station at Grand Island to dial either one of the machines and put it into operation with the phone dialing.

Mr. and Mrs. Emery Carey and Mr. and Mrs. Charles Curtright attended the festival at Humphrey Tuesday evening.

Mr. and Mrs. Dwight Kirchner and daughter, Lauri Jean, spent the weekend here visiting Dwight's mother, Mrs. Ocea Kirchner and other relatives.

Mr. and Mrs. Clyde Payne have returned from a vacation spent in California with their son Douglas and family.

### Lynch News

Glena Courtney of Omaha spent the weekend with friends and relatives.

Mrs. Phyllis Mulhair and sons and Mrs. Eita Johnson spent the weekend in Columbus with Mr. and Mrs. Matt Rieser.

Mrs. Dick Hull and Dawn were Monday dinner guests in the Pete Mulhair home.

Mr. and Mrs. Vigo Christensen and Mrs. Eddie Krugman spent the weekend in Fremont with Mr. and Mrs. Deverne Christensen.

Mr. and Mrs. Reggie Pinkerman, Weslie and Marty were Sunday dinner guests in the Calvin Christensen home.

Marlin Lewis was a Sunday dinner guest in the Pete Mulhair home.

Mr. and Mrs. Bob Wike of Omaha and Mr. and Mrs. Lyle Warnke of Washington arrived the last of the week to spend a few days with Mr. and Mrs. John Wike and other relatives.

Darrel Spencer escaped serious injury Tuesday when he fell from a tree and was hospitalized two days.

MarJean Birmeier spent several days in the Bob Schommer's home at Chadron.

Mr. and Mrs. Leslie Stewart and sons called at the Lyle Farran home at Stanton. Dwight remained there to spend a few days with Darrel Farran.

### Deloit News

By Mrs. H. Reimer

Mr. and Mrs. L. L. Bartak and Mr. and Mrs. Bill Sehl left Saturday morning on a fishing trip to Canada.

Mrs. Jewell Tomjack of Hastings visited the R. M. Tomjack home Sunday, enroute home to Hastings from Omaha.

Mr. and Mrs. Merle Angus and daughter of Lincoln spent the weekend at the Watson McDonald home.

Mr. and Mrs. Henry Reimer spent the weekend at the home of Mr. and Mrs. Milan Born and Kevin at Humboldt. They also called at the L. L. Larson home in Lincoln.

Mr. and Mrs. Don Larson of O'Neill spent the past week visiting relatives in Iowa.

Mrs. Leo Funk visited Mrs. G. A. Bauer Tuesday.

Guests Wednesday evening at the Fred Harpster home were Mr. and Mrs. Glenn Harpster and sons and Mr. and Mrs. Henry Reimer. The occasion was Fred Harpster's birthday.

Mrs. G. A. Bauer visited the doctor in Neligh Friday.

Mr. and Mrs. Glenn Harpster, Terry and Willard attended a birthday party for Mrs. Harpster's mother, Mrs. Web Napier at the John Napier home Thursday evening. All the Napier children were present except Mr. and Mrs. Russell Napier, who live in Sterling, Kan.

### Clearwater News

Mrs. Charles Curtright  
HUnter 5-3290

### Rural Schools Sell at Auction At Clearwater

A large crowd turned out Saturday at the local school grounds here to see the building and other property of six rural schools disposed of at public auction.

Six schoolhouses were sold, districts 7, 48, 21, 112, 67, and 40. There was a great variety of books including both library and text books. Blackboards, chalk, flags, many children and teachers desks, four pianos, one of which was a player piano, bookcases, pictures, chairs and many other small items. What had taken years of building and planning was disposed of in a few hours and six rural school districts are no more.

Mr. and Mrs. Jeff Hinze have announced they will open their bowling alley in early September. League bowling is expected to begin Sept. 12. The Hinze and their three children moved here last week from Walthill. The alleys are located on the west side of main street in the building that formerly housed the Mummert Farm Supply.

Mr. and Mrs. Donald Hale and family of Whittier, Calif., have been visiting Donald's parents, Mr. and Mrs. Dale Hale and other relatives.

John Hoffman had his tonsils removed Friday and was absent from his place of business a few days.

Arthur Lucas spent several days last week in Quincy, Ill., attending a meeting at the Moorman research farms.

Sgt. and Mrs. Delmont Witrock arrived in Clearwater for a two week stay with Mr. and Mrs. Ernest Witrock. The Witrocks have just returned from Korea and will be stationed at Fort Hood, Tex. after the leave is up.

An enthusiastic group of Clearwater boosters left Clearwater about 10 a.m. Monday to tour several towns in this area boosting Clearwater's eightieth Jubilee for this coming Sunday and Monday, Aug. 21-22.

An antique display will be sure to interest many and it will be on display in the windows of the Sneider mortuary here during Clearwater's Jubilee celebration. Anyone having items of this line have been asked to tag them and bring them to the store this week.

Mr. and Mrs. Charles Curtright spent Sunday evening with Mr. and Mrs. Melvin Jacobson.

Ladies of the Methodist church served a lunch of sandwiches, potato salad, cake, pie and coffee and home made ice cream to the public Saturday afternoon and evening at the Legion club rooms. A good crowd turned out.

Mrs. O. W. Elder and children and Mr. and Mrs. Arnold Middleton and family of Salina, Calif., are visiting Mr. and Mrs. Jack Middleton and other relatives this week.

This year seems to be a good year for bumblebees and many farmers in the vicinity have been stung, some seriously. Melvin Jacobson tangled with a swarm of them one day last week while working with some corn. He received medical attention at Tilden. Several have reported many swarms in the hay fields.

Chellie Nolze, daughter of Mr. and Mrs. Fred Nolze, was elected vice-president of the sub-district of the O'Neill Methodist Youth Council at a meeting held in O'Neill last Sunday. Karen Wrenholt, daughter of Mr. and Mrs. George Wrenholt, also attended.

Mr. and Mrs. Melvin Jacobson, Van and Renee Jacobson of Neligh and Debby Rice and the John Rix family attended the Earlwell Rodeo.

### Spencer WSCS Sees Skit on World Children

The theme of the WSCS meeting Wednesday was "Christ For the World We Sing". Louise Nelson gave the devotions.

A short program was presented. Pam and Patty Haun sang "Jesus Loves Me"; Raylene Nemic presented a piano solo; Connie Adams played a waltz on the accordion; Raylene Nemic sang "What A Friend I Have In Jesus"; Mrs. Daniels gave a talk on "What The Church Is Doing".

Grace Patton gave a report on the duties of the secretary of children's work; A skit, "Let The Children Be Heard", was presented by Mrs. B. Creamer with Connie Adams, Judy Drickey, Margaret Fisher and Irene Blizkie taking part.

### MILLER THEATER

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## Saturday, Aug. 20 - 2 p.m.

# 32 cars 9 pickups

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- |                                       |   |
|---------------------------------------|---|
| <b>CARS</b>                           | 54 Mercury Monterey Fordor, Overdrive                             |
| 53 Ford Custom Tudor 8, OD            | 54 Ford Custom Tudor 8, OD  |
| 54 Ford Mainliner Tudor 8, Std.       | 52 Ford Fordor, OD  |
| 52 Ford Custom Tudor, OD              | 54 Studebaker Commander Fordor, OD                                |
| 55 Ford Fairlane Fordor 8, fdm, power | 54 Mercury Monterey Fordor, Merco                                 |
| 54 Ford Custom Tudor 8, OD            | 53 Plymouth Fordor, Std.  |
| 55 Rambler 6, Fordor, Std.            | 53 Ford Club Coupe 8, Std.  |
| 53 Mercury, Custom Fordor, Merco      | 53 Ford Custom Tudor 8, OD  |
| 54 Chevrolet, 210 Fordor, Std.        | 53 Chevrolet Tudor Deluxe, Std.                                   |
| 51 Ford Tudor 8, Std.                 | <b>TRUCKS</b>   |
| 55 Dodge Royal Fordor, Auto           | 54 Ford F600 Truck, 4 spd - 2 spd, 16 ft. Comb. stock & grain box |
| 54 Ford Crestline Fordor, Std.        | 49 Chevrolet 1 ton, 9 ft. comb. stock rack                        |
| 54 Dodge Coronet Fordor, Automatic    | 47 Studebaker Pickup, 1/2-ton                                     |
| 53 Chevrolet 210 Fordor, Std.         | 55 Dodge Express  |
| 54 Ford Custom Tudor 6, Fdm.          | 51 Jeep 4-Wheel Drive Pickup                                      |
| 52 Chevrolet Deluxe Tudor, Std.       | 49 Chevrolet 3/4 Ton Pickup                                       |
| 47 Jeep Station Wagon, Std.           | 54 Ford 1/2-Ton Pickup  |
| 53 Ford Custom Tudor, Std.            | 54 GMC 1/2-Ton Pickup   |
| 49 Ford Fordor, Std.                  | 55 Ford 1/2-Ton Pickup  |
| 54 Ford Crestline Tudor 6, OD         | 56 Ford 1/2-Ton Pickup  |
| 55 Ford Custom Tudor 8, Std.          | 1 Metal Pickup Box with Rack                                      |
| 53 Buick Tudor, Automatic             | 1 Stock Rack to fit Pickup  |
| 55 Ford Custom Tudor 8, Fdm           |   |
| 54 Ford Custom Fordor 8, Fdm          |   |

All have heaters and the majority have radios Financing will be available or see your banker  
TERMS—CASH, unless otherwise provided for. No merchandise to be removed until settled for.  
COL. GEO. WORKMAN, Auctioneer

# Lohaus Motor Co.

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