

The Geelong VHF-UHF-Microwave
Experimenters Group

VK3UHF/P

Summer VHF/UHF Field Contest
13-14 January 2007

By Chas VK3PY



Contest Objectives:

On bands from 50 MHz and above:

- Make as many contacts as possible on each band in the 24-hour period
- Work as many grid squares as possible
- Have fun with radios



Scoring points:

Contacts on higher frequency bands score more points.

It pays to have as many bands available as possible.

We had equipment for:

50 MHz / 144 MHz / 432 MHz / 1296 MHz / 2.4 GHz /
3.4 GHz / 5.7 GHz / 10 GHz / 24 GHz.



Each new grid square worked earns a bonus 10 points on that band.

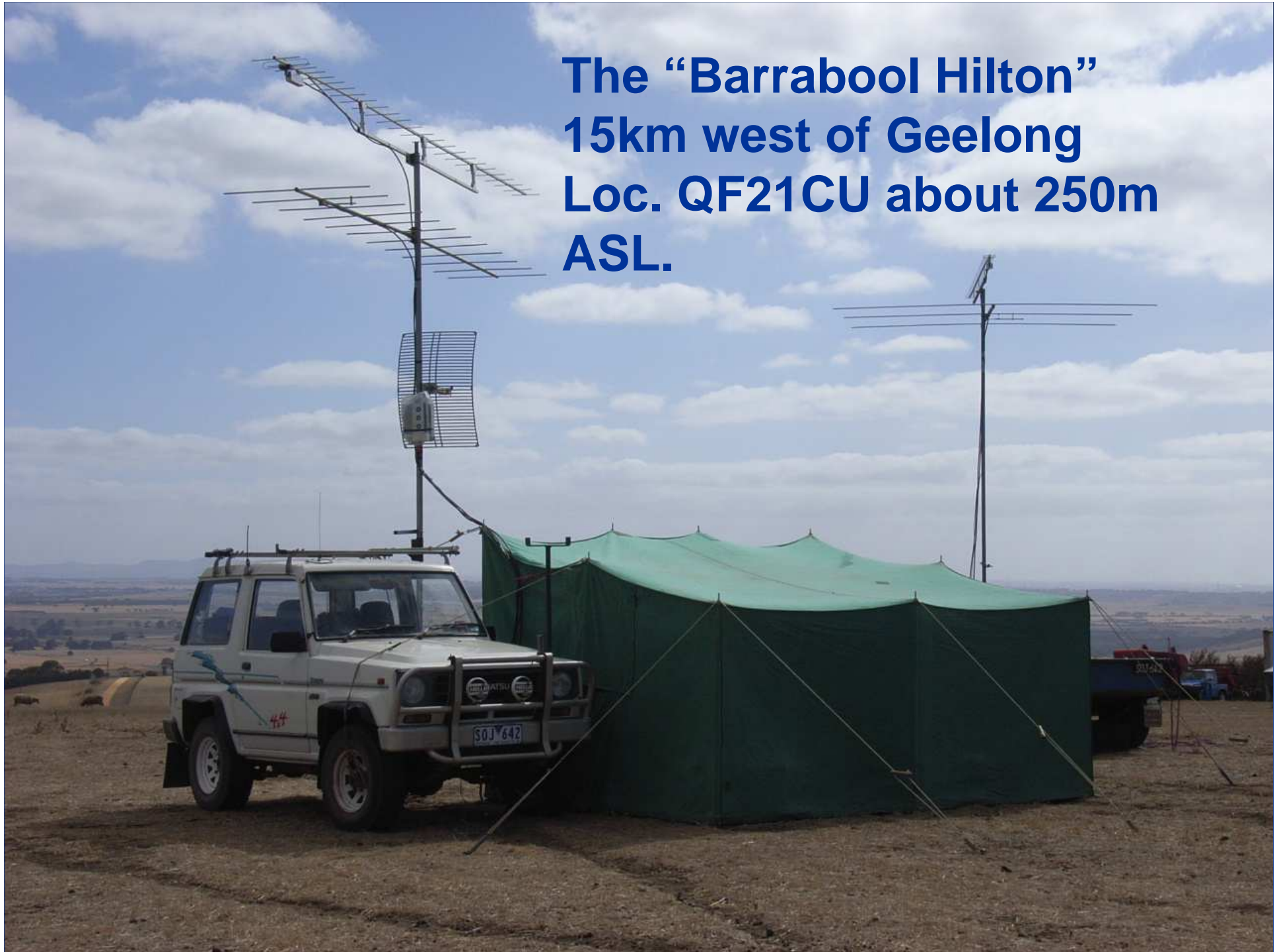
However, soon you run out of nearby, easy grids to work. So distance becomes a factor.

Station capability counts for a lot. Important factors are:

- Location – a high, quiet hilltop
- Antennas – high gain antennas
- Receivers – Low-noise amplifiers on UHF & above
- Transmitters – Highest practical power



**The “Barrabool Hilton”
15km west of Geelong
Loc. QF21CU about 250m
ASL.**





View to the North



View to the North West

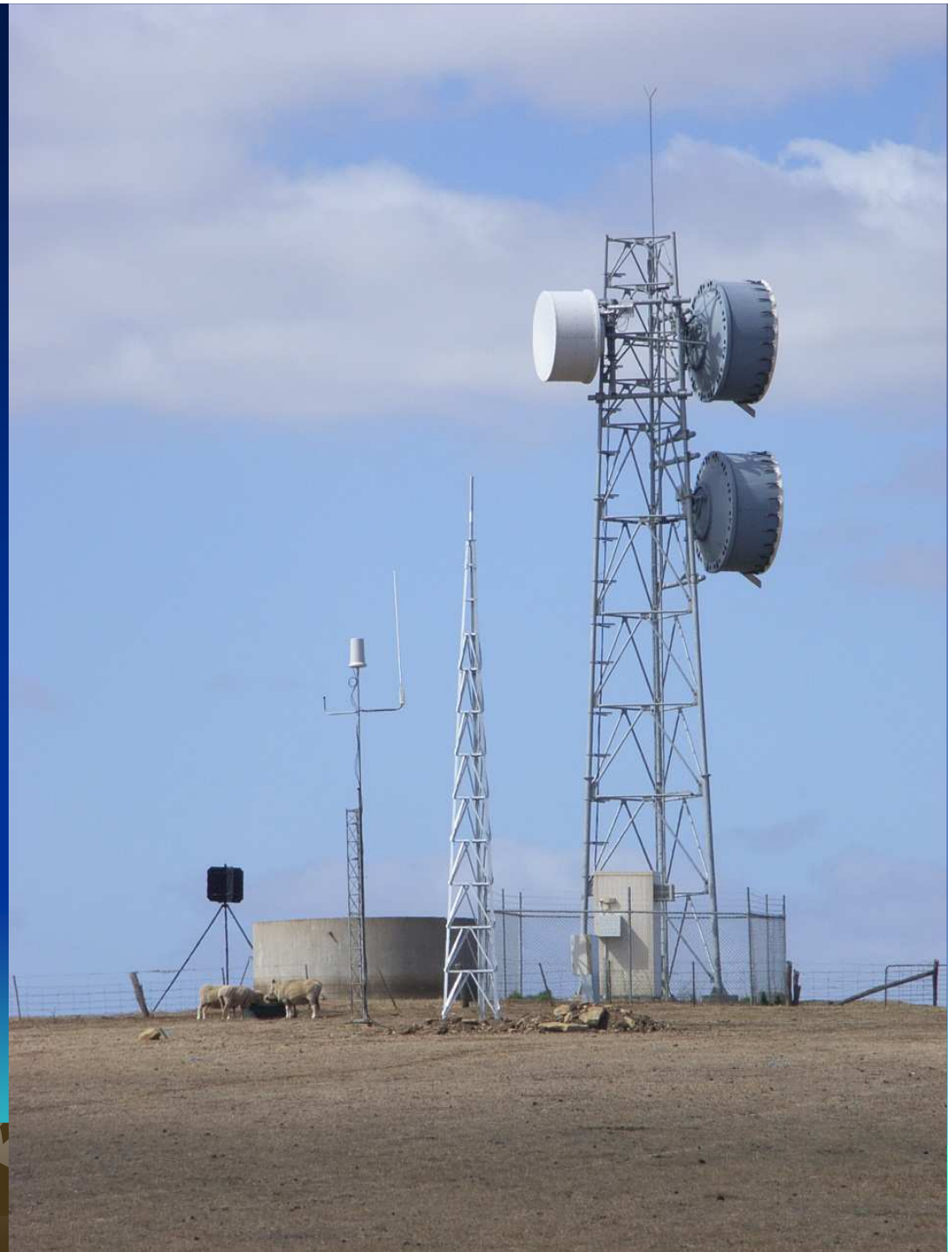


View to the North East



Looking south.

We do have to share
the QTH with paying
customers....



Tuneable IF for
23cm

Tuneable IF for
13cm



2m rig

70cm rig

**2m/70cm/23cm/13cm
equipment**

2m 220W & 70cm 200W power amplifiers



**Charlie VK3NX
operating on 432 MHz**



**VK3PY 1296 MHz
50W Transverter**

1296 MHz-146 MHz

1296 MHz TRANSVERTER



David VK3QM's stack
of microwave
transverters





1296 MHz Yagi (top)

50 MHz Yagi (bottom)

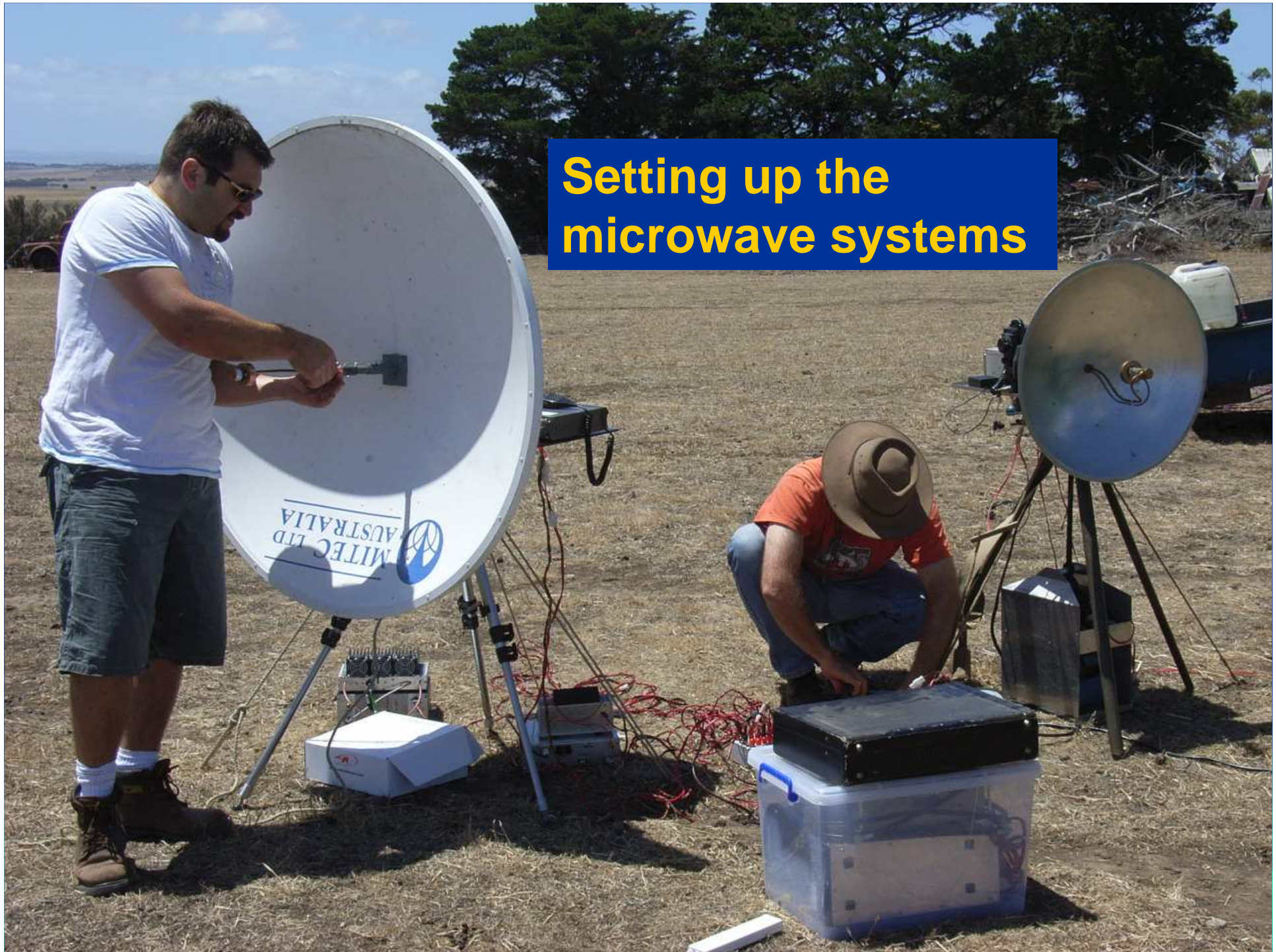


70cm Yagi &
LNA

2m Yagi

2.4 GHz transverter with dish
antenna

Setting up the microwave systems



3.4 GHz Transverter and power amplifier



10 GHz Transverter
with 1.2m dia. dish



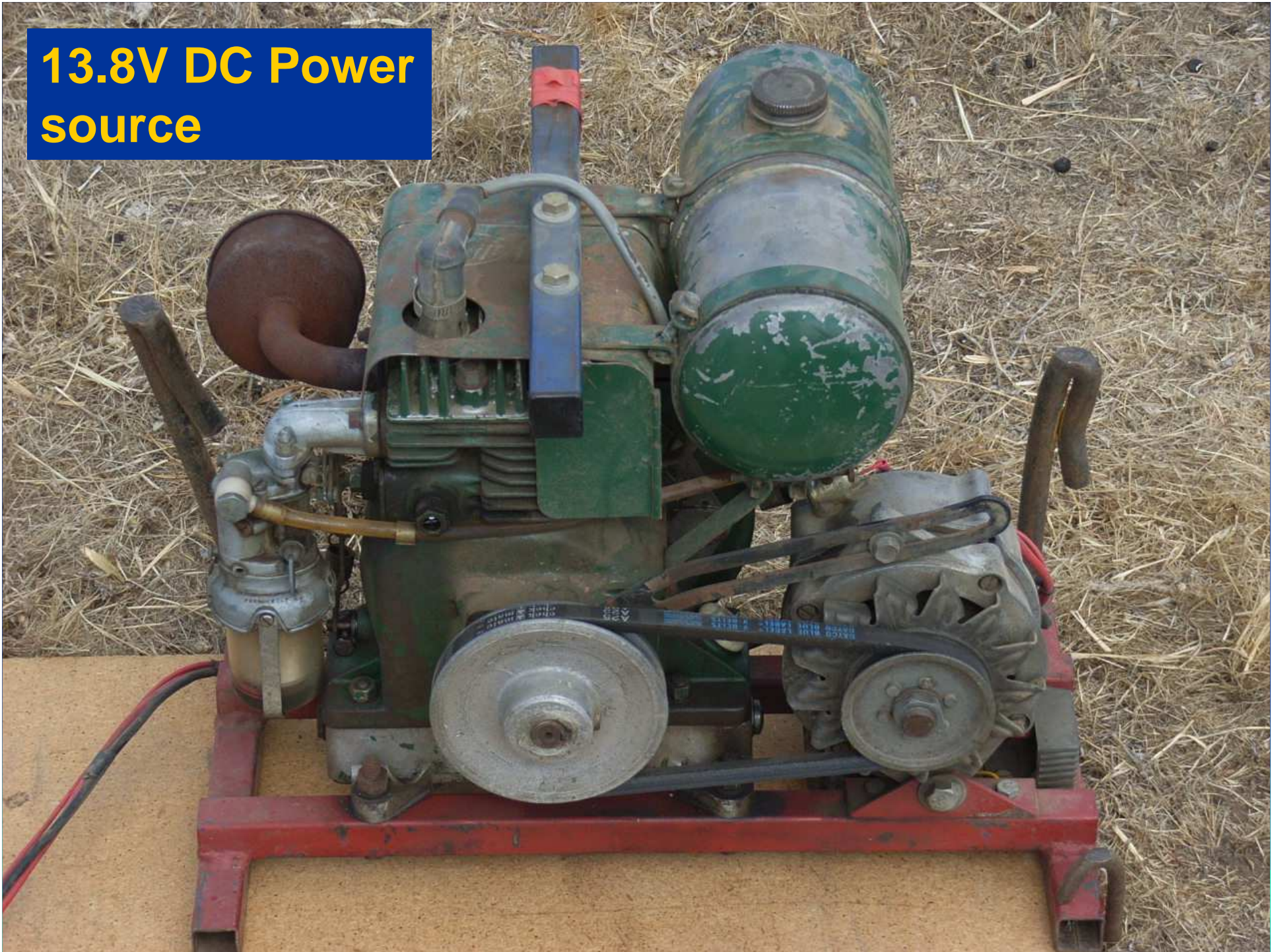
**David VK3QM
operating his 10 GHz
gear**

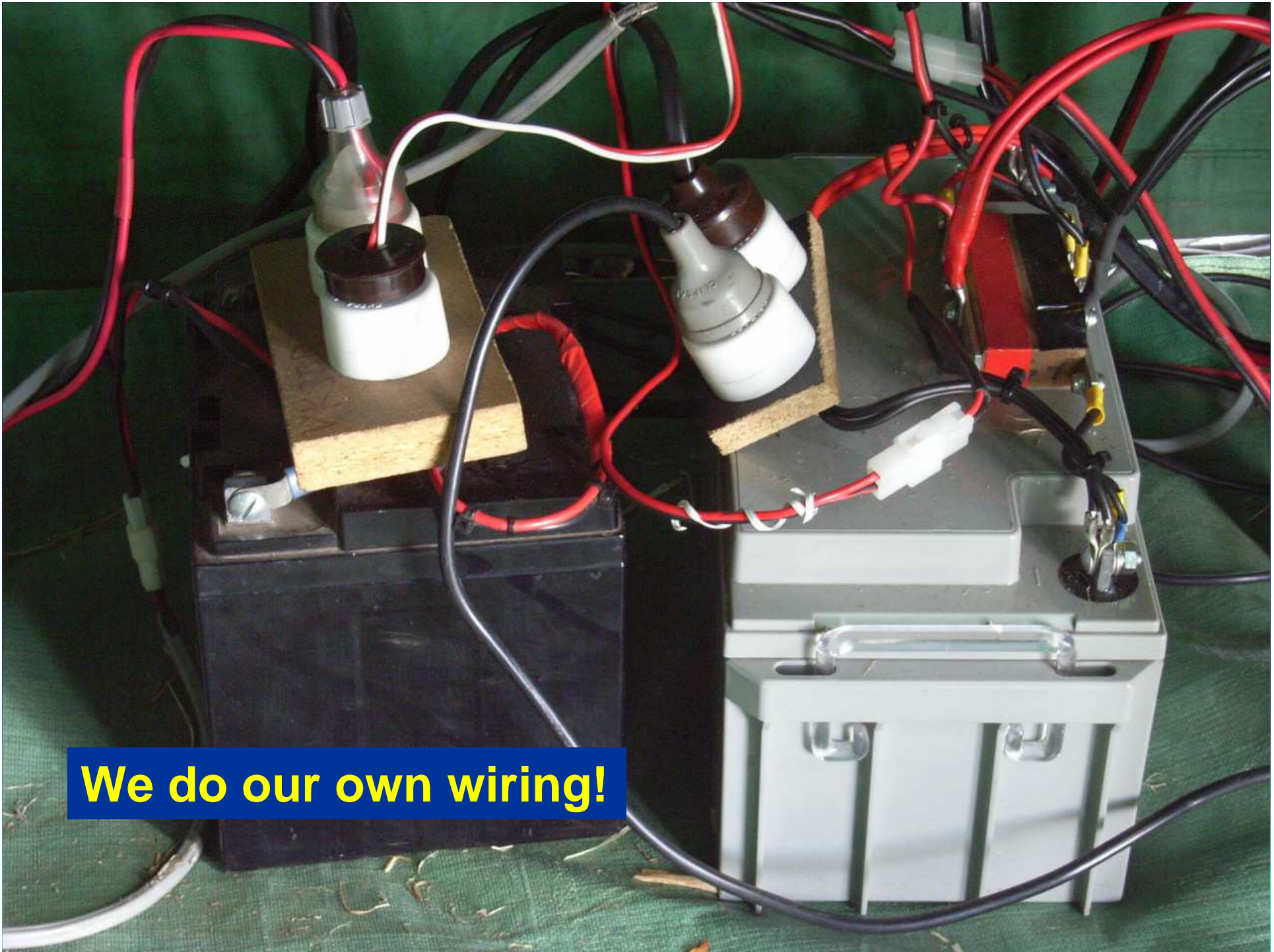


**Charlie VK3NX
operating his 10 GHz
gear**



13.8V DC Power source





We do our own wiring!

Some of our more notable contacts:

VK2KRR - Wagga Wagga on 144, 432 & 1296 MHz
(>300 km)

VK2AES - Mt. Corree, ACT on 144, 432 & 1296 MHz
(>400 km)

VK5AKK – Adelaide, on 144 & 432 MHz (>500 km)

VK5SR – Mt. Gambier on 1.3, 2.4, 3.4, 5.7 & 10 GHz
(300 km)

