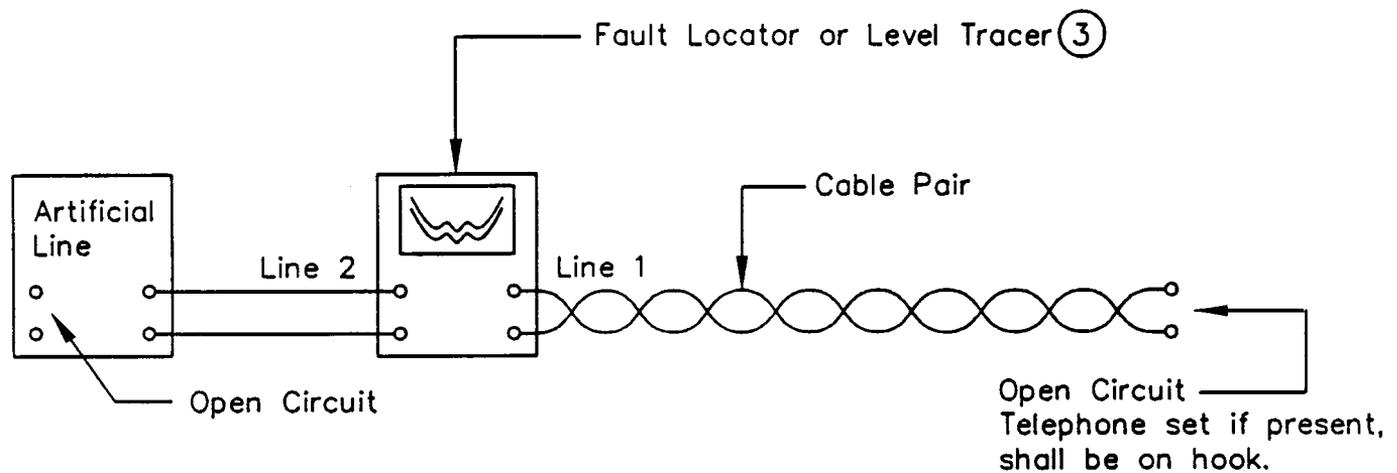


# FIGURE 8

## ONE-PERSON OPEN CIRCUIT MEASUREMENT IMPEDANCE OR PULSE RETURN PATTERN



### Measurement Procedure

1. Set up Artificial Line to same make-up [Length & Gauge(s)] as the cable pair.
2. Connect to test set (See Note (1)).
3. Connect cable pair to test set (See Note (1)).
4. Compare traces of Artificial Line and cable pair (2). They should be essentially identical. Differences indicate cable faults.
5. Location and type of fault may be determined by introducing faults in the Artificial Line until its trace is identical to that of the cable pair.

### Notes:

- (1) Terminals to which cable pair and artificial line are attached shall be determined from the manufacturer's operating instructions. Proper settings for various switches and adjustments on the test set shall also be determined from the same source.
- (2) With test sets having trace storage capability only one set of terminals need be used. Connect Artificial Line to test set, store trace and disconnect line. Connect cable pair and compare trace to stored trace. To identify fault, store cable pair trace and connect Artificial Line. Introduce faults in the Artificial Line until traces are identical.
- (3) N.E.C.-17A, Biddle-CME110A-1, Dolcom-490, Tektronix-1503, Wilcom-T195, Wilcom-T132, or equivalent.