

A P P E N D I X ATHE FLIGHT RECORD AND PATH RECOVERY

Both analog and digital flight records are produced. The analog profiles are recorded on green chart paper in the aircraft during the survey. The digital profiles are generated later by computer and plotted on orange chart paper at a scale identical to the geophysical maps. The digital profiles, which may be displayed, are as follows:

| <u>Channel Number</u> | <u>Parameter</u> | <u>Scale units/mm</u> | <u>Noise</u> |
|-----------------------|--|-----------------------|--------------|
| 20 | magnetometer | 10 gamma | 2 gamma |
| 21 | bird height | 10 feet | 5 feet |
| 22 | standard* coil-pair inphase | 1 ppm | 1-2 ppm |
| 23 | standard coil-pair quadrature | 1 ppm | 1-2 ppm |
| 24 | whaletail** coil-pair inphase | 1 ppm | 1-2 ppm |
| 25 | whaletail coil-pair quadrature | 1 ppm | 1-2 ppm |
| 26 | VLF-EM total field | 1 % | 1-2 % |
| 27 | VLF-EM vertical quadrature | 1 % | 1-2 % |
| 28 | ambient noise monitor (standard coil) | 1 ppm | 1 ppm |
| 29 | ambient noise monitor (whaletail coil) | 1 ppm | 1 ppm |
| 33 | difference function inphase | 1 ppm | 1-2 ppm |
| 34 | difference function quadrature | 1 ppm | 1-2 ppm |
| 35 | first anomaly recognition function | 1 ppm | 1-2 ppm |
| 36 | second anomaly recognition function | 1 ppm | 1-2 ppm |
| 37 | conductance | 1 mho | |
| 40 | log resistivity at main frequency | .03 decade | |
| 41 | apparent depth at main frequency | 3 m | |
| 45 | log resistivity at secondary frequency | .03 decade | |
| 46 | apparent depth at secondary frequency | 3 m | |
| 50 | EM magnetite | 0.5% | |

* coaxial
** horizontal coplanar