

IV TECHNICAL SPECIFICATIONS.

1. OPERATIONS.

The magnetic survey operations were conducted under licence from the Gulf Research and Development Corporation.

2. METHOD OF NAVIGATION.

a). The survey aircraft was navigated using the GPL Doppler navigation system and computer integrated Kearfott N-1 Compass.

b). Description of Navigation Aids:

(i) Kearfott N-1 Compass. This compass unit is integrated into the Doppler computer system and is a navigational aid using the output of sensitive elements suitably amplified to monitor an electrically driven directional gyro. This system provides accurate compass indication in which turning, accelerating and gyro wander errors are almost eliminated. Heading information in the form of a synchronous output is provided at the amplifier to feed a synchronous repeater of any of the following equipment:

radio compass,

electro-mechanical flight computer,

automatic reckoning system;

The following units are used in this compass:

detector,

gyro,

amplifier,

resolver,

slave unit,

indicator and master indicator.

(ii) Automatic Pilot:

The conventional automatic pilot was used. LEAR L3 three axis.

(iii) Doppler:

The GPL Doppler Navigation system is a self contained long range navigation aid that gives the pilot ;