AEROMAGNETIC MAP OF THE CARRIZO PLAIN AREA ON PARTS OF THE BAKERSFIELD, LOS ANGELES AND SAN LUIS OBISPO 1° BY 2° QUADRANGLES, CALIFORNIA

BY
U. S. GEOLOGICAL SURVEY
1996

EXPLANATION

Square: Grid North
Star: True North
Arrow: Magnetic North

Angles presented were calculated at 35° 45 N Latitude and 119° 30'W Longitude at an altitude of 774 m (2540 ft).
Use diagram for reference only

Grid North-True North: 1° 27' 0"
Grid North-Magnetic North: 15° 53' 24"

Inclination 59° 54' 36"

Declination rate of change -0° 1' 48"
Inclination rate of change -0° 1' 12"
per year from 1994.9

FLIGHT PATH

Navigation and flight path recovery were conducted using a Global Positioning System (GPS) satellite navigation system.

Traverse lines were flown at an azimuth of 45°-225° with an average line spacing of 805 m (2640 ft).

Lines have an average aircraft terrain clearance of 350 m (1150 ft). Terrain clearance was monitored by radar and barometric altimeters.

Flight line identification numbers are shown along southwest edge of map area and at a limited number of locations interior to the map. Tie line identification numbers are shown along the northwest edge of the map area. (Ignore small numbers along flight lines.)

TOTAL FIELD MAGNETIC DATA

Total field magnetic intensity data were measured by a tail stinger mounted Scintrex H8 optically pumped cesium vapour magnetometer with RMS AADC04 compensator.

Data have been corrected for diurnal variations using a magnetic base station and tie lines.

Residual magnetic data shown by contours represent corrected total field magnetic intensity minus the International Geomagnetic Reference Field (IGRF).

The total intensity magnetic value at 17:24:00 on December 12, 1994 (35° 02' 11.5" Latitude, 119° 47 28.5" Longitude) is 49032 nT less than before the the IGRF removal.

Gridding interval is 200m X 200m and gridding direction is 136°.

Map contours are in nanoTeslas (nT), and are multiples of those listed below:

- 2 nT
- 10 nT
- 50 nT
- 250 nT
- 1000 nT
- H Magnetic high
- L Magnetic low

Hachures (▼)indicate closed lows

SURVEY LOCATION

SCALE 1:100 000

2.5 0 1 2 5 10 km

Projection: UTM 1983 North American datum
Central meridian: 117° West
Survey flown December1994

Flown and compiled by AERODAT, Inc., Mississauga, Ontario, Canada