

**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. The 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 HB optically pumped cesium vapour magnetometer
with RMS AADC04 compensator.

Data have been corrected for diurnal variations
using a magnetic base station and its 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' 11.6" Latitude,
119° 47' 28.5" Longitude) is 49032 nT less than before the IGRF removal.

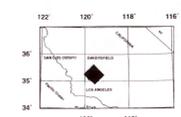
Gridding interval is 200m X 200m and gridding direction is 136°.

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

- 2 nT
- 10 nT
- 50 nT
- 250 nT
- 1000 nT

— Magnetic high
— Magnetic low

Hachures (▼) indicate closed lows



SURVEY LOCATION



Projection: UTM 1983 North American datum
Central meridian: 117° West
Survey flown December 1994

Flown and compiled by AERODAT, Inc.,
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