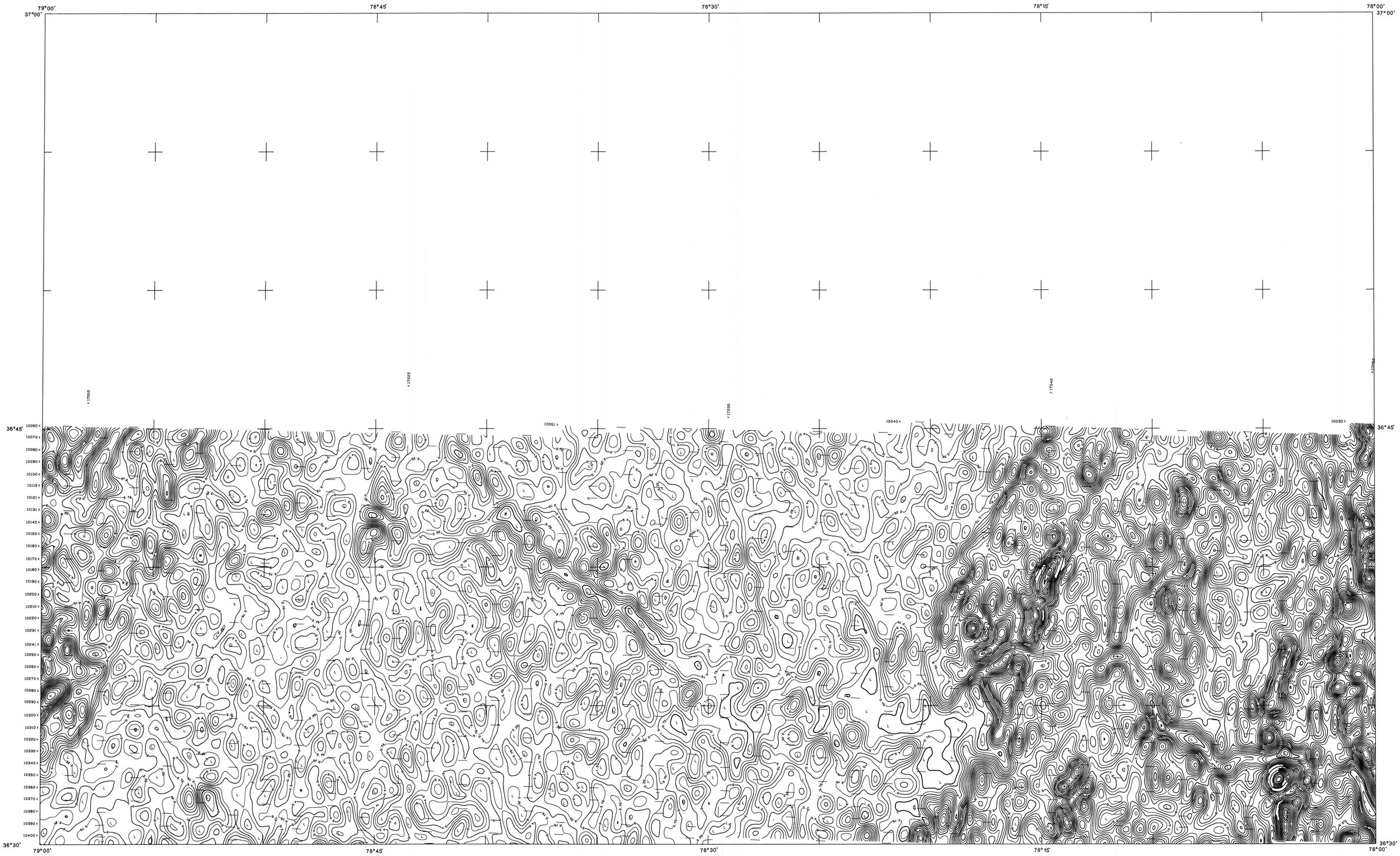
U.S. DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY

OPEN FILE REPORT
94-253
SHEET 3 OF 8



eTHORIUM

SURVEY SPECIFICATIONS

AIRCRAFT
N4489L CESSNA TITAN 404
MAGNETOMETER
SPLIT BEAM CESIUM SCINTREX MB
RESOLUTION 0.001 nanoTesla
CYCLE RATE 0.10 second
SAMPLE INTERVAL 8 metres (average)
SPECTROMETER
256 CHANNEL ENMOS 1000
VOLUME 50.34 litres
CYCLE RATE 1.00 second
SAMPLE INTERVAL 80 metres (average)
DATA ACQUISITION
PICODAS PDAS-1000 ACQUISITION SYSTEM
11 CHANNEL RMS GR33R
FLIGHT LINE SPACING
TRAVERSE LINES 805 metres
TIE LINES 21500 metres
FLIGHT LINE DIRECTION
TRAVERSE LINES 090-270 degrees
TIE LINES 000-180 degrees
SURVEY HEIGHT
122 metres - mean terrain clearance
NAVIGATION
GPS navigation system
FLIGHT PATH RECOVERY
GPS located
with doppler positioning between located fiducials

DATA PROCESSING

GRID CELL SIZE	400 metres.
CONTOUR INTERVAL	.75 ppm eTh.
PARALLAX CORRECTION	0.50 fiducial. The data has been corrected for compton scattering and adjusted to a height of 122 metres agl. It was then converted to ground concentration units.

Flown and compiled by:
BGM AIRBORNE SURVEYS, INC.

Scale 1:100 000

2 0 2 3 5 6 miles
2 0 2 4 6 8 10 km

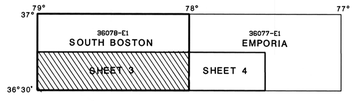
NORTH AMERICAN DATUM 1927
TRANSVERSE MERCATOR PROJECTION, CENTRAL MERIDIAN -81°

AERORADIOMETRIC MAPS OF PARTS OF THE SOUTH BOSTON AND EMPORIA 30' X 60' QUADRANGLES, VIRGINIA AND NORTH CAROLINA

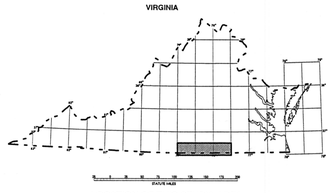
BY
U.S. GEOLOGICAL SURVEY
1994

North point relationships are shown for the centre of the map. Magnetic north is true for 1994.2

GRID/MAGNETIC ANGLE	-6°45'24"
GRID CONVERGENCE	-1°29'47.15"
SECULAR VARIATION	0°3'36" west per year



SHEET INDEX
FOR THORIUM



LOCATION OF THIS STUDY AREA

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