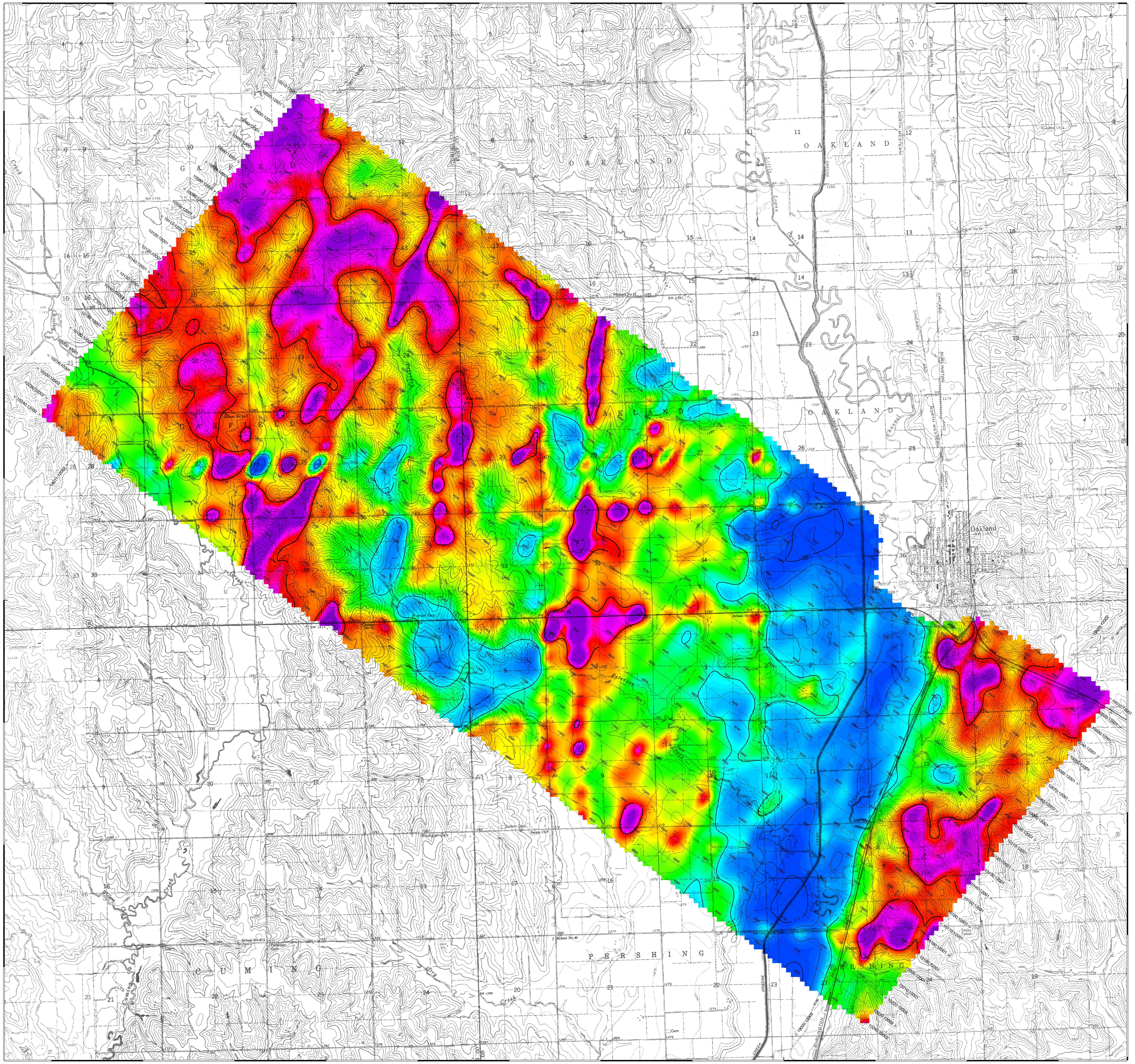


TECHNICAL SUMMARY

Navigation . . . . Differentially–corrected GPS
Data reduction grid interval . . . . 70 metres
Terrain clearance . . . . Helicopter 57 m
Electromagnetic sensor 30 m
Magnetometer 30 m
Data sampling interval . . . . 0.1 second
Magnetometer / sensitivity . . . . . Cesium / 0.01 nT
Electromagnetic system . . . . . . FUGRO RESOLVE
Regional field removed . . . . . . International Geomagnetic Reference Field 2005
Date flown . . . . March 22–23, 2007

Frequency	Sensitivity	Coil Orientation
3300 Hz	0.12 ppm	Vertical coaxial
400 Hz	0.12 ppm	Horizontal coplanar
1500 Hz	0.12 ppm	Horizontal coplanar
6200 Hz	0.24 ppm	Horizontal coplanar
25000 Hz	0.60 ppm	Horizontal coplanar
115000 Hz	0.60 ppm	Horizontal coplanar

ohm•m

22.77, 21.02, 19.58, 18.60, 17.93, 17.47, 17.00, 16.59, 16.22, 15.86, 15.50, 15.14, 14.87, 14.54, 14.27, 14.05, 13.84, 13.63, 13.44, 13.26, 13.06, 12.90, 12.75, 12.62, 12.49, 12.35, 12.21, 12.08, 11.95, 11.83, 11.71, 11.61, 11.52, 11.43, 11.35, 11.27, 11.19, 11.12, 11.04, 10.98, 10.90, 10.83, 10.75, 10.67, 10.59, 10.52, 10.44, 10.37, 10.31, 10.23, 10.16, 10.07, 9.99, 9.91, 9.83, 9.75, 9.66, 9.57, 9.46, 9.35, 9.24, 9.11, 8.92

FLIGHT LINES

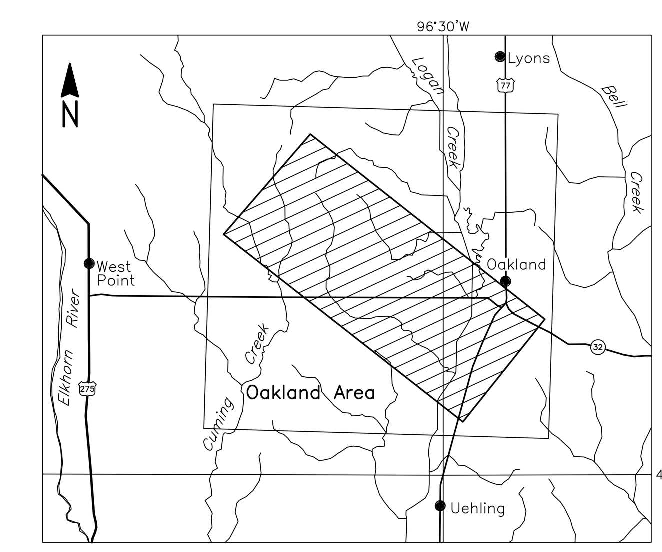
13010
13020<2
Flight number
Flight direction
Flight line number
11020
Reflight Number
Line Number
Area Number
Fiducials identified on profiles
250

RESISTIVITY CONTOURS

1000
800
600
500
400
300
250
200
150
125
100

Contours in ohm–m at 10 intervals per decade. Apparent resistivity calculated using a pseudo–layer half–space model (Fraser 1978).

LOCATION MAP



REF: NK 14–9 UTM ZONE: 14 NAD83 SCALE: 1:250,000

U.S. GEOLOGICAL SURVEY
OAKLAND AREA, NEBRASKA

APPARENT RESISTIVITY
1500 Hz COPLANAR

FUGRO RESOLVE SURVEY	REF: NK 14–9	GEOPHYSICIST:
DATE: APRIL, 2007	JOB: 07026	SHEET: 1

Fugro Airborne Surveys

0 1.0 2.0 Km
1/2 0 1 Mi
Scale 1:24 000

FUGRO AIRBORNE SURVEYS