

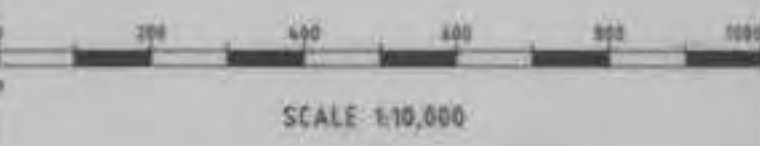
REFERENCE



3 00 000 E AUSTRALIAN MAP GRID-ZONE 54 01 02 03 04 05 06 07 08 09 3 10 000 E

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Amendment	Date	Description



PHOTOGRAMMETRY

SURTEC

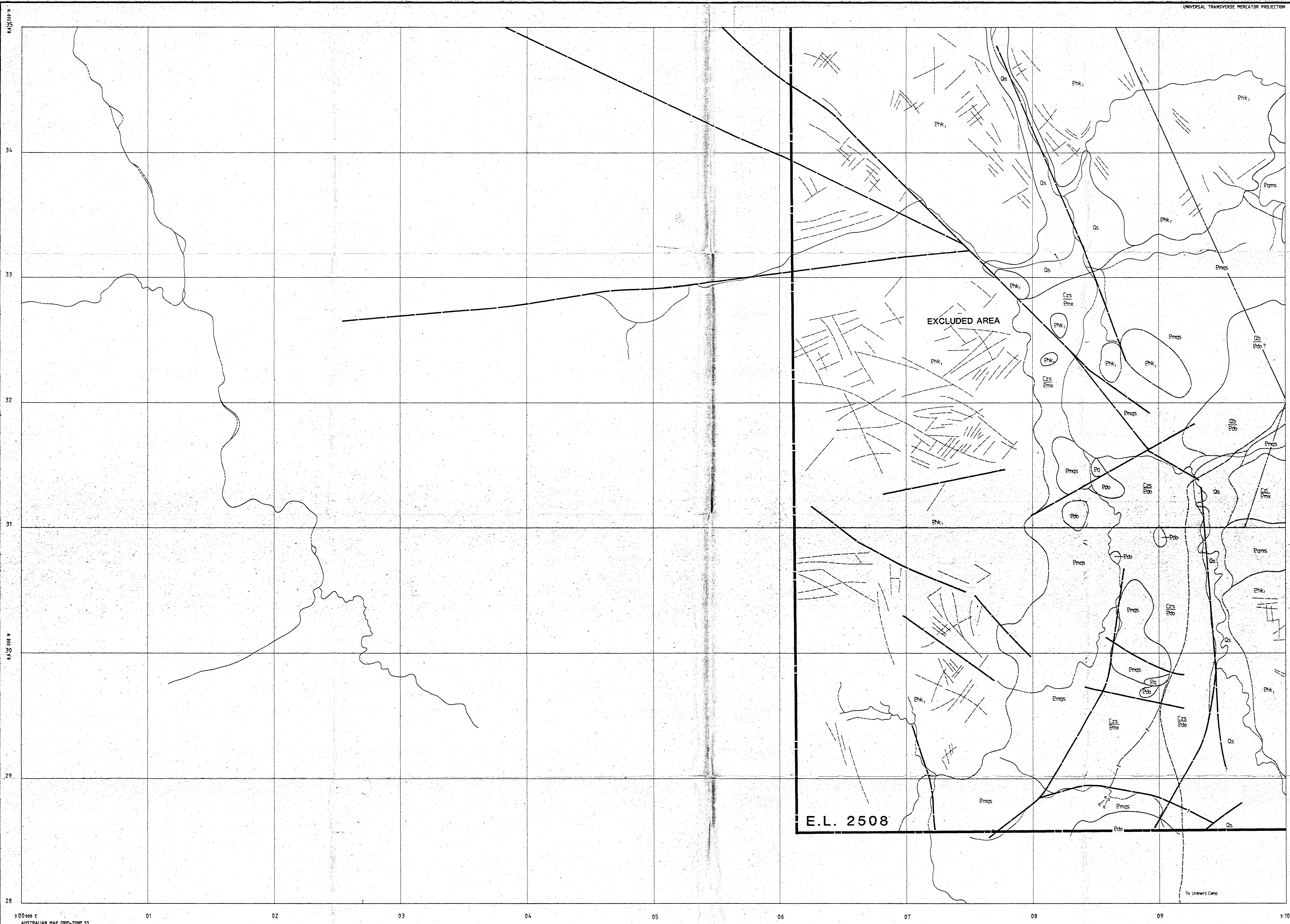
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QUEENSLAND MINES LTD
ARNHEM LAND EXPLORATION PROJECT, EL 2508

ORTHOPHOTOMOSAIC BASE

Author: DR N. RUTHERFORD
Drawn: C. J. DEWHAN
Date: SEPT. 88

Scale: 1:10,000
Computer File No: 0028-1
Drawing No: 077



REFERENCE

QUATERNARY

- Qb Black soil & clay predominantly in drainage minor silt / sand.
- Qs Unconsolidated sand, outwash, colluvium.

TERTIARY TO QUATERNARY

- Cz1 Silt / silt & silted rubble, sand / silt and silt.
- Czs Unconsolidated sand, ferruginous and clayey sand.
- Cz2 Nodular, concretionary, plastic interite, with silt sandy, loam.
- Cz1m Outcropping nodular concretionary, plastic interite.

CARPENTARIAN

- Phn Nungbegerri Volcanics
- Phk1 Kombolgie Formation
Olig sandstone, breccia conglomerate hematitic and brown ferruginous massive x-bedded, ripple-marked conglomerate lenses.

EARLY PROTEROZOIC

- Pdo Onepell Dolerite
Phyritic dolerite, apatite dolerite, granodiorite, dolerite and differentiates, gabbroic, etc. denotes horizontal of rock. "C" denotes horizontal of country rock.
- Pdz Zama Dolerite
Metadolerite, hornblende amphibolite.

Geological Boundaries

- Geological boundaries, position accurate.
- Geological boundaries, position approximate.
- Geological boundaries, position inferred.
- Geological boundaries, position interpreted.

FOLDING

- Anticline showing plunge.
- Syncline showing plunge.

FAULTING

- Fault, position accurate (Dotted, Unst).
- Fault, position approximate showing relative movement.
- Fault, position inferred.
- Fault containing breccia (Bt quartz, fcl, mylonite, etc).
- Shear zone.

BEDDING

- Strike and dip of bedding.
- Strike and dip of overturned bedding.
- Strike of vertical bedding.
- Horizontal bedding.
- Trace of bedding.

OTHER GEOLOGICAL SYMBOLS

- Strike and dip of foliation.
- Strike and dip of schistosity.
- Alphale Inequality.
- Cycle or vein (beds, dykes, etc., metamorphic).
- Unconformity (line of "X" to younger rock).
- Joint pattern.
- Direction of movement of sediment bearing current.

TOPOGRAPHIC SYMBOLS

- Watercourse.
- Spring.
- Examination.
- Road and track.
- Mile.
- Exploration Licence (EL) Boundary.
- Special Mining Lease (SML) Boundary.
- Mineral Rights (MR) Boundary.
- Boundary - Area excluded from exploration by M.C.

SAMPLING

- 10771 Rock Sample Location And Number (Assay).
- 10771 Rock Sample Location And Number (Assay).
- Rock Sample for age determination.

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SCALE 1:10,000

Amendment	Date	Description

TRUE NORTH, TRUE NORTH AND MAGNETIC NORTH ARE SHOWN DIAGRAMMATICALLY FOR THE CENTRE OF THE MAP. MAGNETIC NORTH IS CORRECT FOR 1988 AND MOVES WESTERLY BY 0.1° IN ABOUT EIGHT YEARS.

0.4° TRUE NORTH
0.4° TRUE NORTH
0.4° TRUE NORTH

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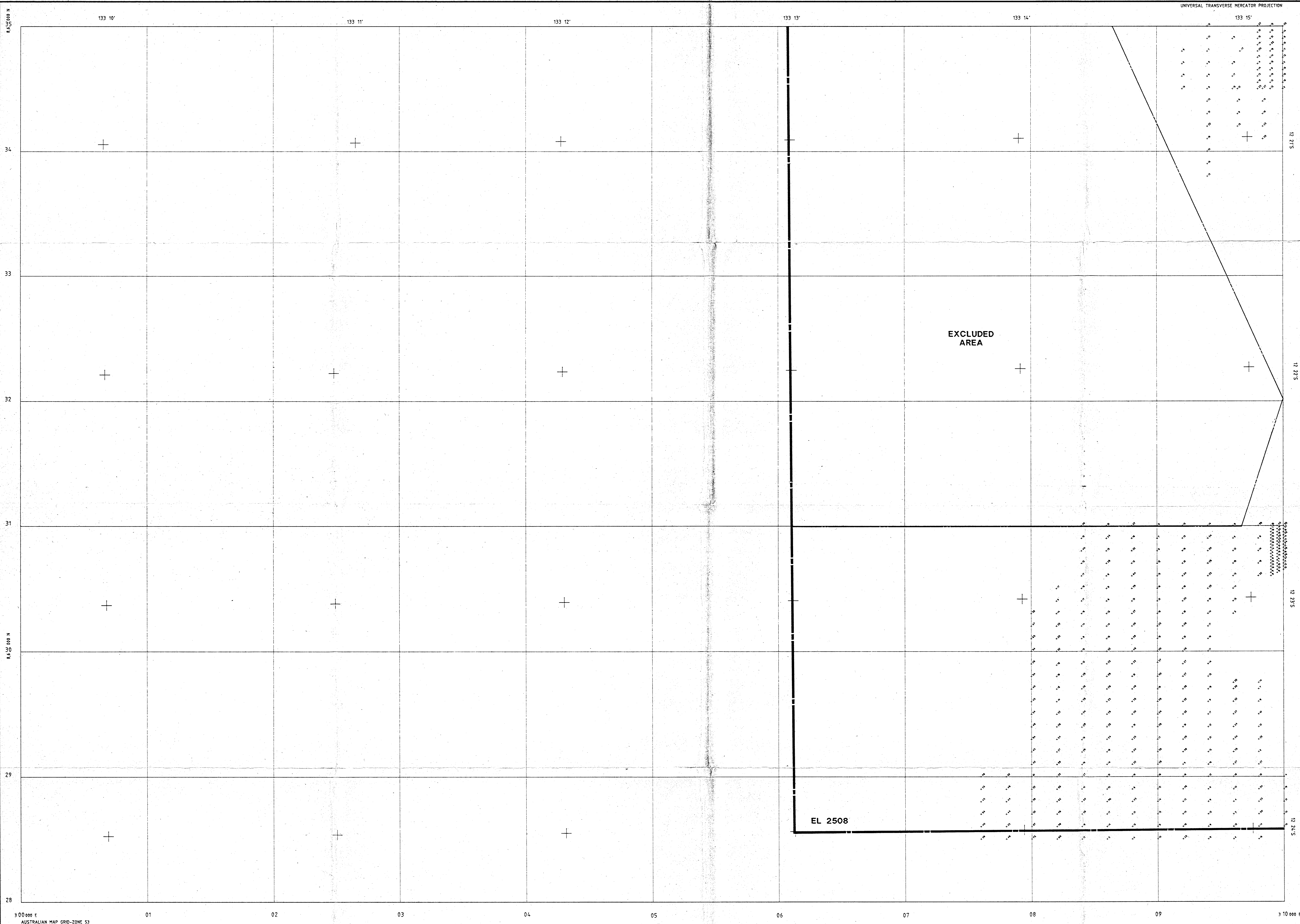
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ARNHEM LAND EXPLORATION PROJECT, EL 2508

GEOLOGY

Author: DR. N. RUTHERFORD	Scale: 1:10,000
Drawn: G. L. COURT	Computer File No. 0028-2
Date: SEPT. 88	Drawing No. 078

CR 89-423 G



REFERENCE
Instrument : Geometrics G-256
Sampling Time : 20 secs

TOPOGRAPHIC SYMBOLS
Exploration Licence (EL) Boundary
Special Mining Lease (SML) Boundary
Aboriginal Sacred Site Boundary
Boundary - Area excluded from exploration by N.L.G.

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SCALE 1:10,000

Amendment	Date	Description

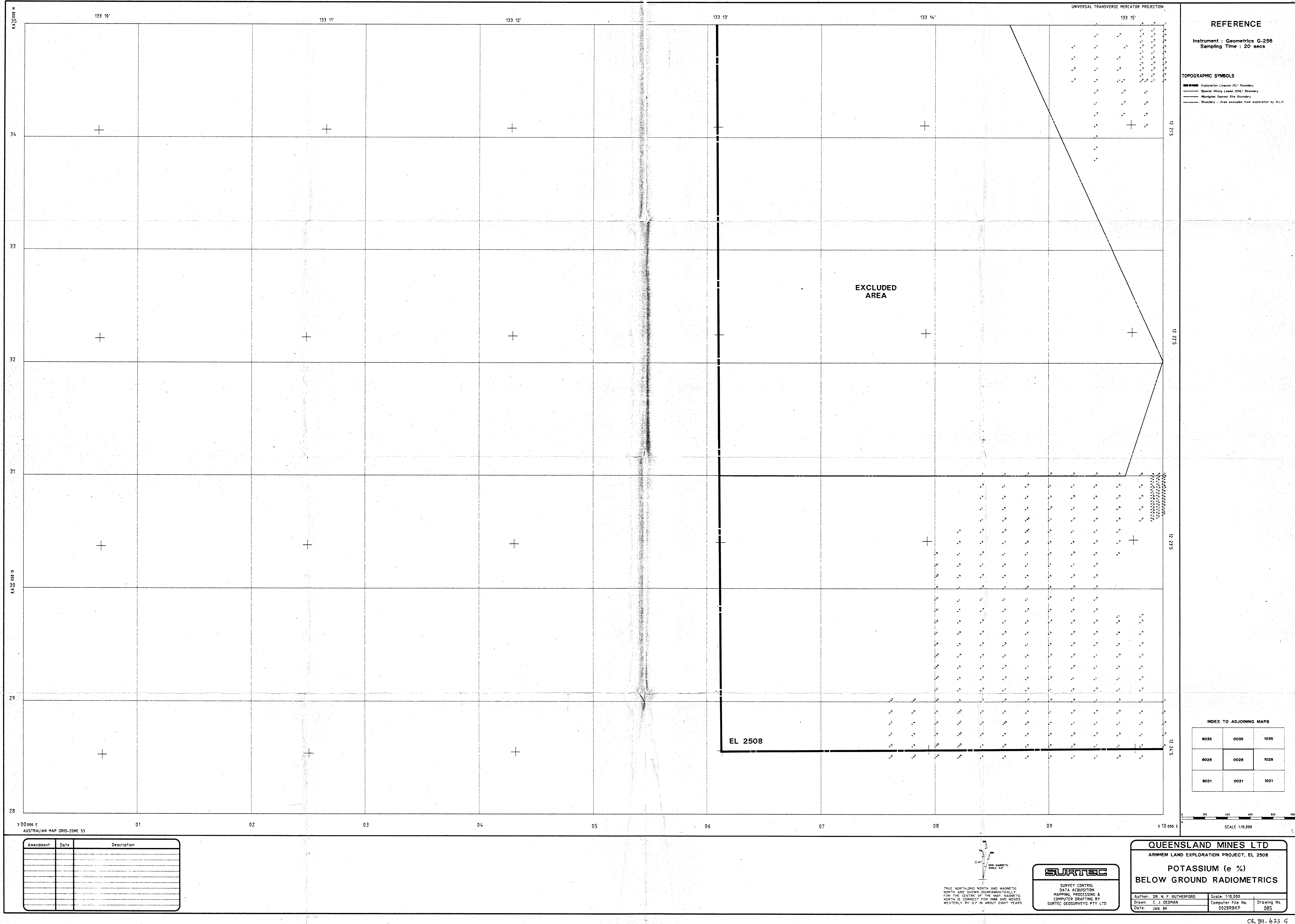
TRUE NORTH, GRID NORTH AND MAGNETIC NORTH ARE SHOWN DIAGRAMMATICALLY FOR THE CENTRE OF THE MAP. MAGNETIC NORTH IS CORRECT FOR 1980 AND MOVES WESTERLY BY 0.7° IN ABOUT EIGHT YEARS

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QUEENSLAND MINES LTD
ARNHEM LAND EXPLORATION PROJECT, EL 2508
TOTAL COUNT (cps)
BELOW GROUND RADIOMETRICS

Author: DR. N. F. RUTHERFORD
Drawn: C. J. DEDMAN
Date: JAN. 89

Scale: 1:10,000
Computer File No: 0028RBCP
Drawing No: 083



REFERENCE

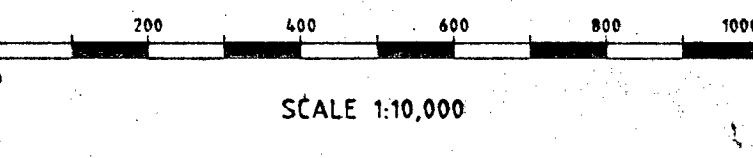
Instrument : Geometrics G-256
Sampling Time : 20 secs

TOPOGRAPHIC SYMBOLS

- Exploration Licence (EL) Boundary
- Special Mining Lease (SML) Boundary
- Aboriginal Sacred Site Boundary
- Boundary - Area excluded from exploration by N.L.D.

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SCALE 1:10,000

Amendment	Date	Description

TRUE NORTH, GRID NORTH AND MAGNETIC NORTH ARE SHOWN DIAGRAMMATICALLY FOR THE CENTRE OF THE MAP. MAGNETIC NORTH IS CORRECT FOR 1988 AND MOVES WESTERLY BY 0.1° IN ABOUT EIGHT YEARS.

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ARNHEM LAND EXPLORATION PROJECT, EL 2508
POTASSIUM (e %)
BELOW GROUND RADIOMETRICS

Author: DR. N. F. BUTHERFORD	Scale: 1:10,000	
Drawn: C. J. DEDMAN	Computer File No. 0028RBKP	Drawing No. 085
Date: JAN. 89		



Amendment	Date	Description

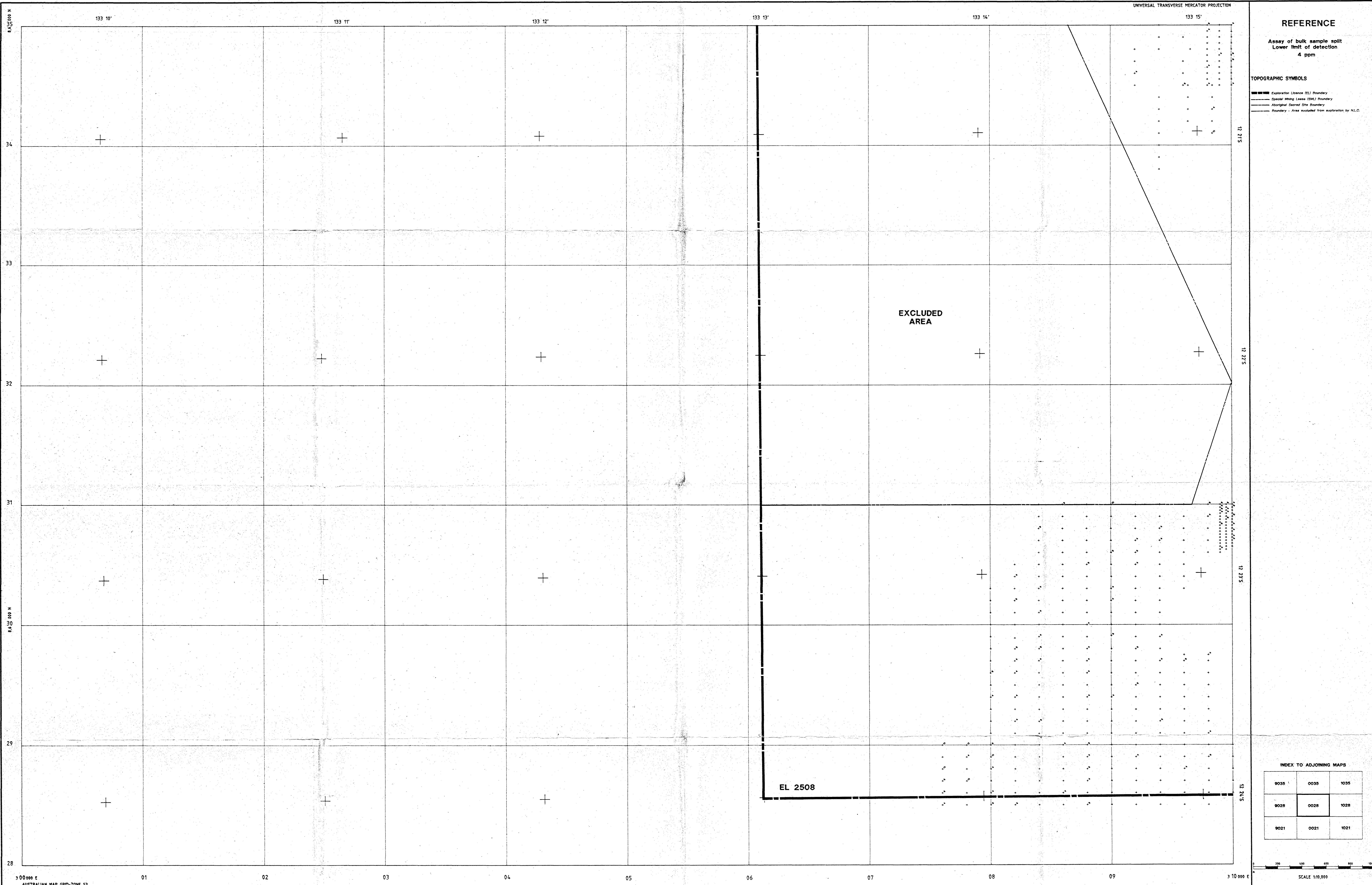
TRUE NORTH, GRID NORTH AND MAGNETIC NORTH ARE SHOWN DIAGMATICALLY FOR THE CENTRE OF THE MAP. MAGNETIC NORTH IS CORRECT FOR 1998 AND MOVES WESTERLY BY 0.1" IN ABOUT EIGHT YEARS.

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ARNHEM LAND EXPLORATION PROJECT, EL 2508
THORIUM (e ppm)
BELOW GROUND RADIOMETRICS

Author: DR N. F. RUTHERFORD
Drawn: C. J. DEEMAN
Date: JAN 89

Scale: 1:10,000
Computer File No: 0028R01P
Drawing No: 086



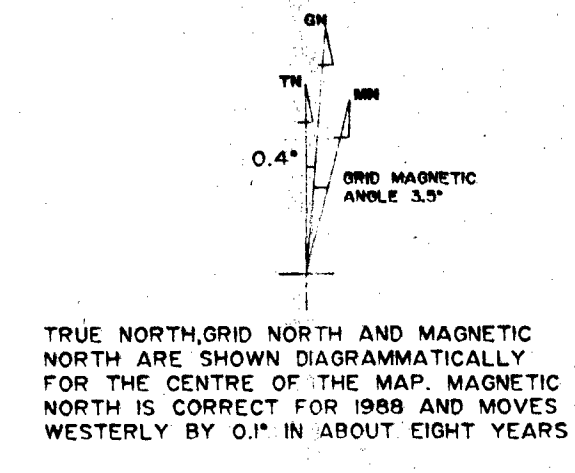
REFERENCE

Assay of bulk sample split
Lower limit of detection
4 ppm

TOPOGRAPHIC SYMBOLS

- Exploration Licence (EL) Boundary
- Special Mining Lease (SML) Boundary
- Aboriginal Sacred Site Boundary
- Boundary - Area excluded from exploration by N.L.D.

Amendment	Date	Description



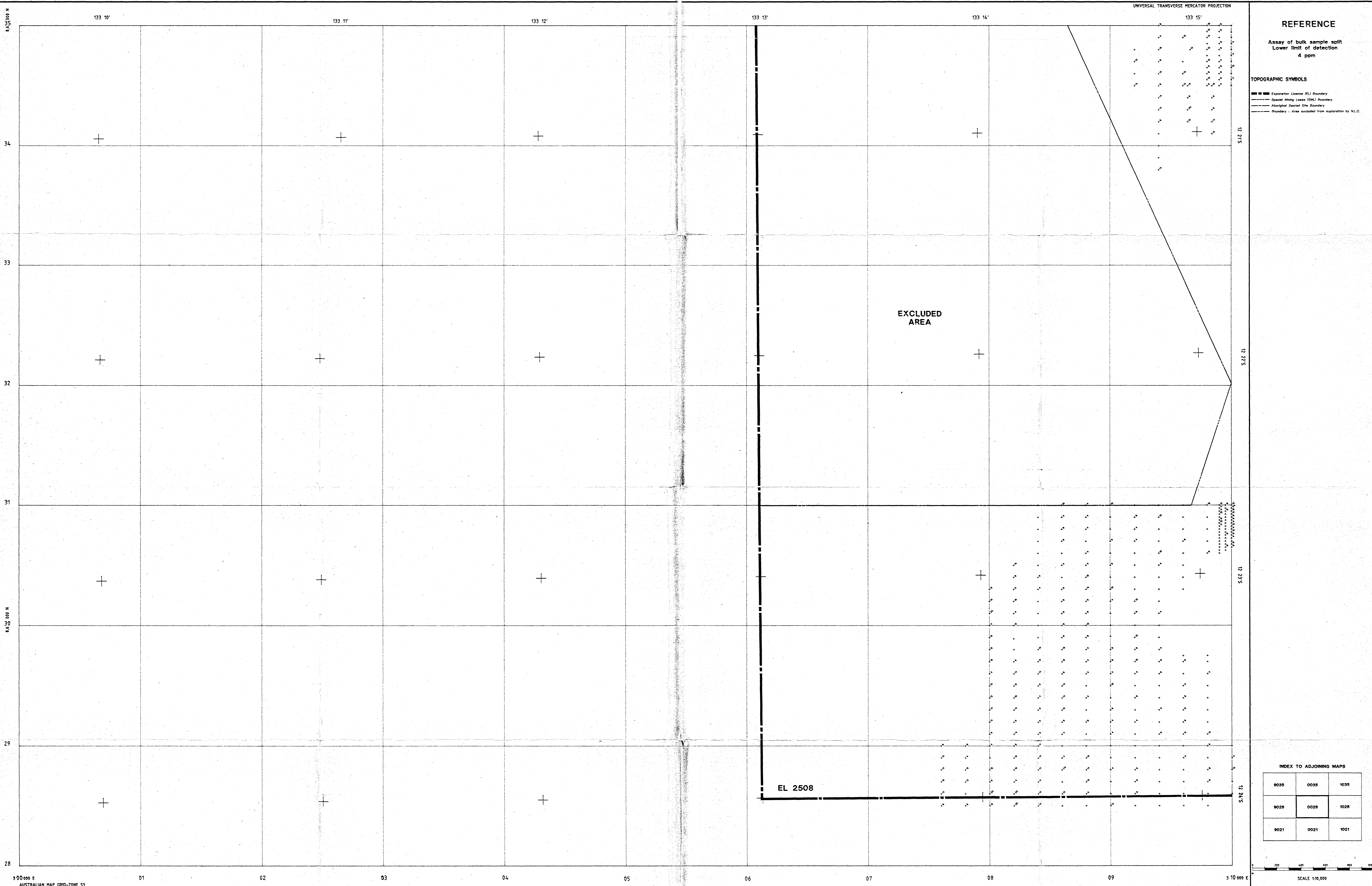
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ARNHEM LAND EXPLORATION PROJECT, EL 2508

**URANIUM (U ppm)
SOIL GEOCHEMISTRY**

Author: DR. N. F. RUTHERFORD	Scale: 1:10,000
Drawn: C. J. DEEMAN	Computer File No. 0028AUP
Date: JAN. 89	Drawing No. 087



REFERENCE

Assay of bulk sample split
Lower limit of detection
4 ppm

TOPOGRAPHIC SYMBOLS

- Exploration Licence (EL) Boundary
- Special Mining Lease (SML) Boundary
- Aboriginal Sacred Site Boundary
- Boundary - Area excluded from exploration by M.L.G.

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3 00 000 E
AUSTRALIAN MAP GRID-ZONE 53

01

02

03

04

05

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08

09

3 10 000 E

Amendment	Date	Description

TRUE NORTH, GRID NORTH AND MAGNETIC NORTH ARE SHOWN DIAGRAMMATICALLY FOR THE CENTRE OF THE MAP. MAGNETIC NORTH IS CORRECT FOR 1988 AND MOVES WESTERLY BY 0.1° IN ABOUT EIGHT YEARS

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ARNHEM LAND EXPLORATION PROJECT, EL 2508
**THORIUM (Th ppm)
SOIL GEOCHEMISTRY**

Author: DR. N. E. RUTHERFORD

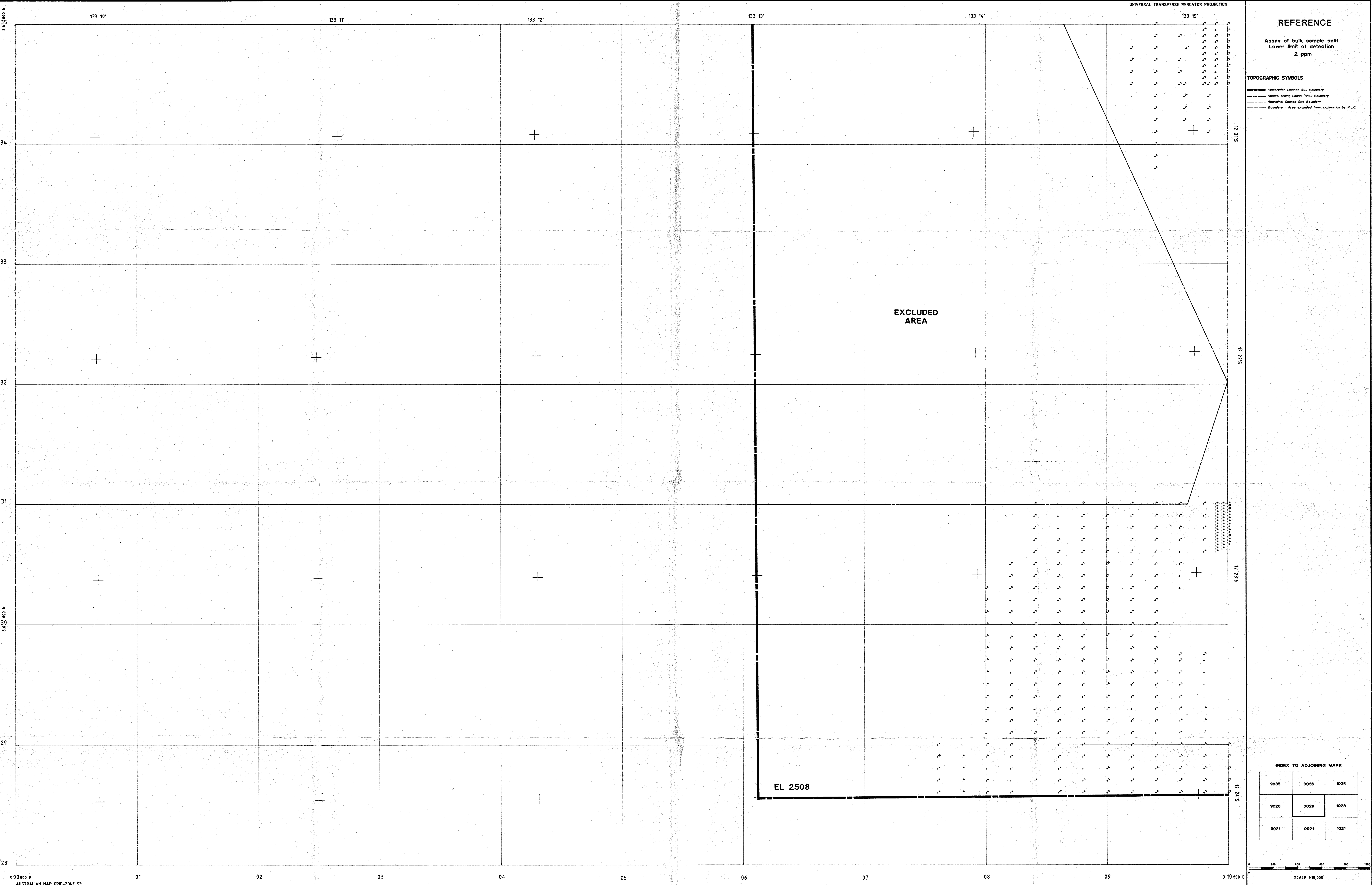
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Drawn: C. J. DEDMAN

Computer File No. 0028ATHP

Date: JAN. 89

Drawing No. 088



Amendment	Date	Description

TRUE NORTH, GRID NORTH AND MAGNETIC NORTH ARE SHOWN DIAGRAMMATICALLY FOR THE CENTRE OF THE MAP. MAGNETIC NORTH IS CORRECT FOR 1888 AND MOVES WESTERLY BY 0.1° IN ABOUT EIGHT YEARS.

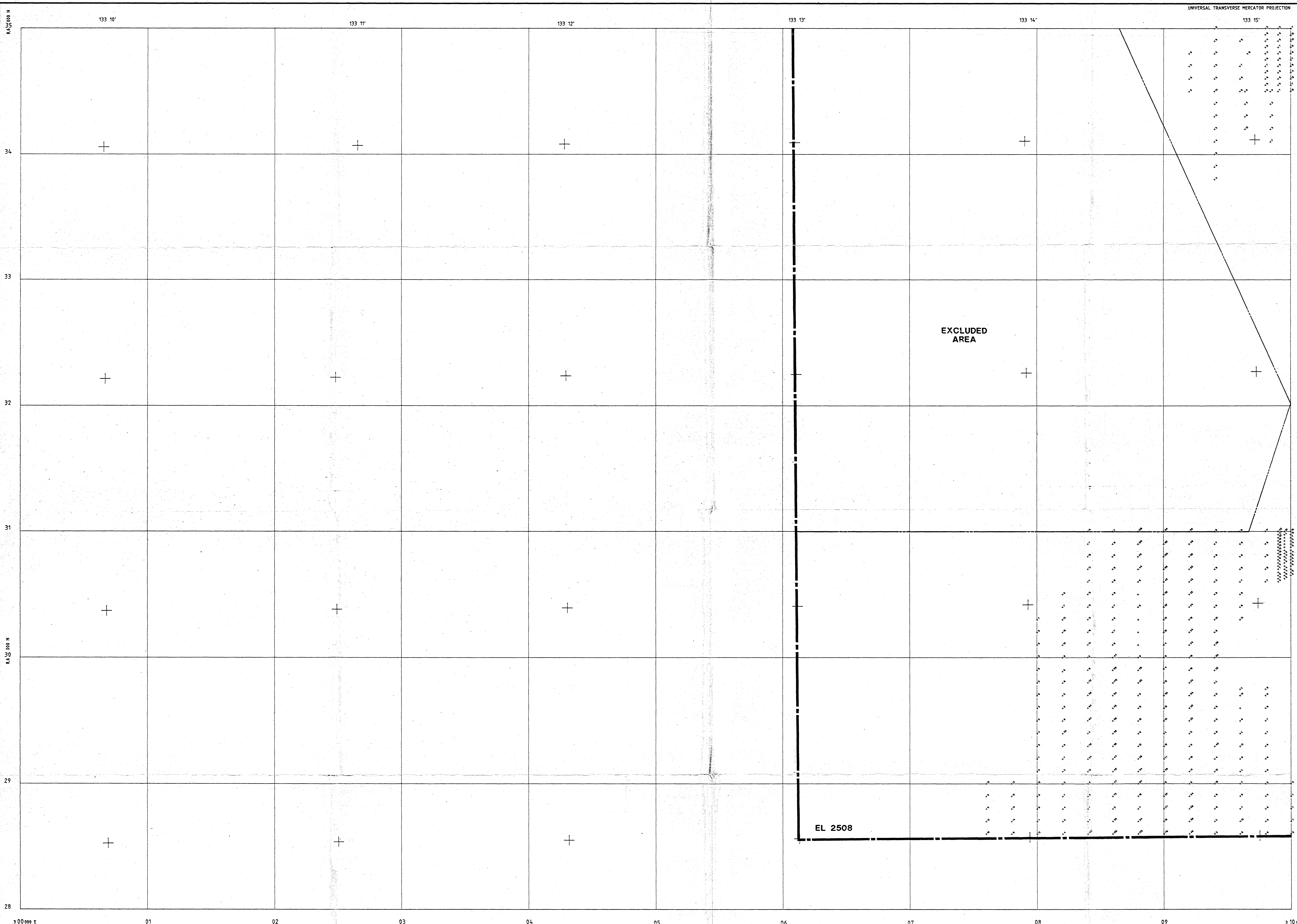
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**ARSENIC (As ppm)
SOIL GEOCHEMISTRY**

Author: DR. N. E. RUTHERFORD	Scale: 1:10,000	Drawing No. 089
Drawn: C. J. DEGMAN	Computer File No. 0028AASP	
Date: JAN. 89		



REFERENCE

Assay of bulk sample split
Lower limit of detection
2 ppm

TOPOGRAPHIC SYMBOLS

- Exploration Licence (EL) Boundary
- Special Mining Lease (SML) Boundary
- Aboriginal Reserved Site Boundary
- Boundary - Area excluded from exploration by N.L.C.

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QUEENSLAND MINES LTD
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COPPER (Cu ppm)
SOIL GEOCHEMISTRY

Author: DR. N. P. RUTHERFORD
Drawn: C. J. DEEDMAN
Date: JAN 89

Scale: 1:10,000
Computer File No: 0028ACUP
Drawing No: 090

Amendment	Date	Description

TRUE NORTH, MAGNETIC NORTH AND MAGNETIC NORTH ARE SHOWN DIAGONALLY. FOR THE DRAFTING OF THE MAP, MAGNETIC NORTH IS CORRECT FOR 1988 AND MOVES WESTERLY BY 0.1° N ABOUT EIGHT YEARS.

SURTEC

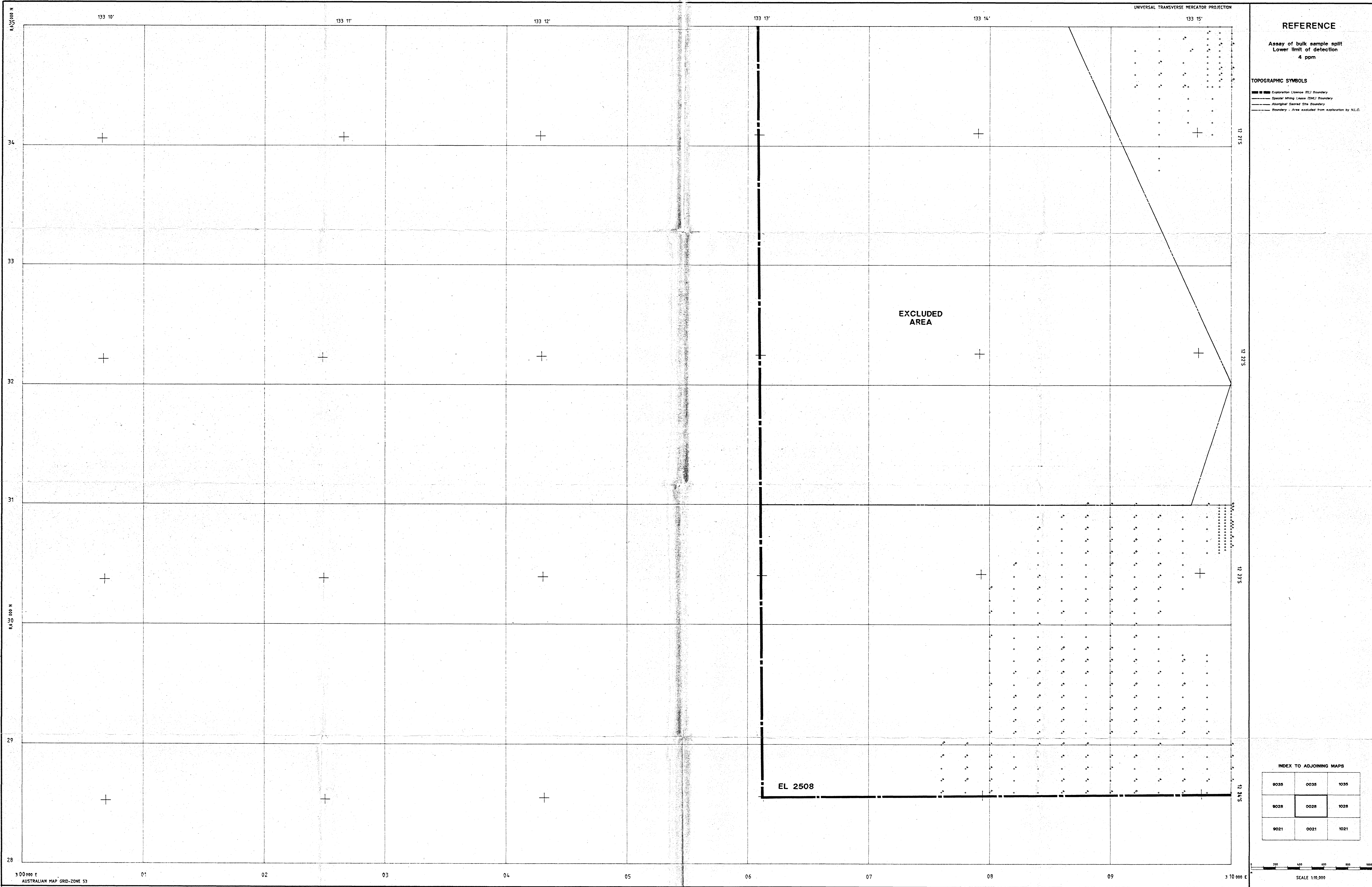
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ARNHEM LAND EXPLORATION PROJECT, EL 2508

COPPER (Cu ppm)
SOIL GEOCHEMISTRY

Author: DR. N. P. RUTHERFORD
Drawn: C. J. DEEDMAN
Date: JAN 89

Scale: 1:10,000
Computer File No: 0028ACUP
Drawing No: 090



REFERENCE

Assay of bulk sample split
Lower limit of detection
4 ppm

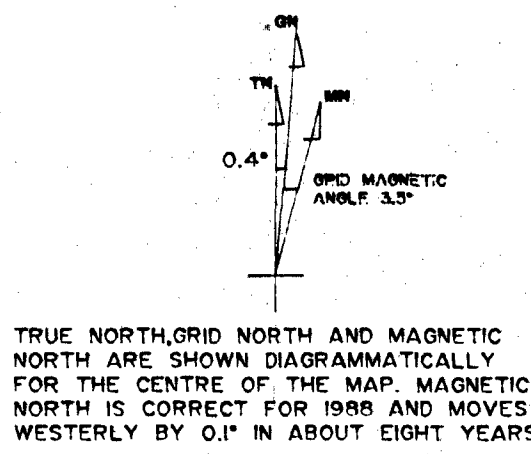
TOPOGRAPHIC SYMBOLS

- Exploration Licence (EL) Boundary
- Special Mining Lease (SML) Boundary
- Aboriginal Shaded Site Boundary
- Boundary - Area excluded from exploration by N.L.G.

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Amendment	Date	Description



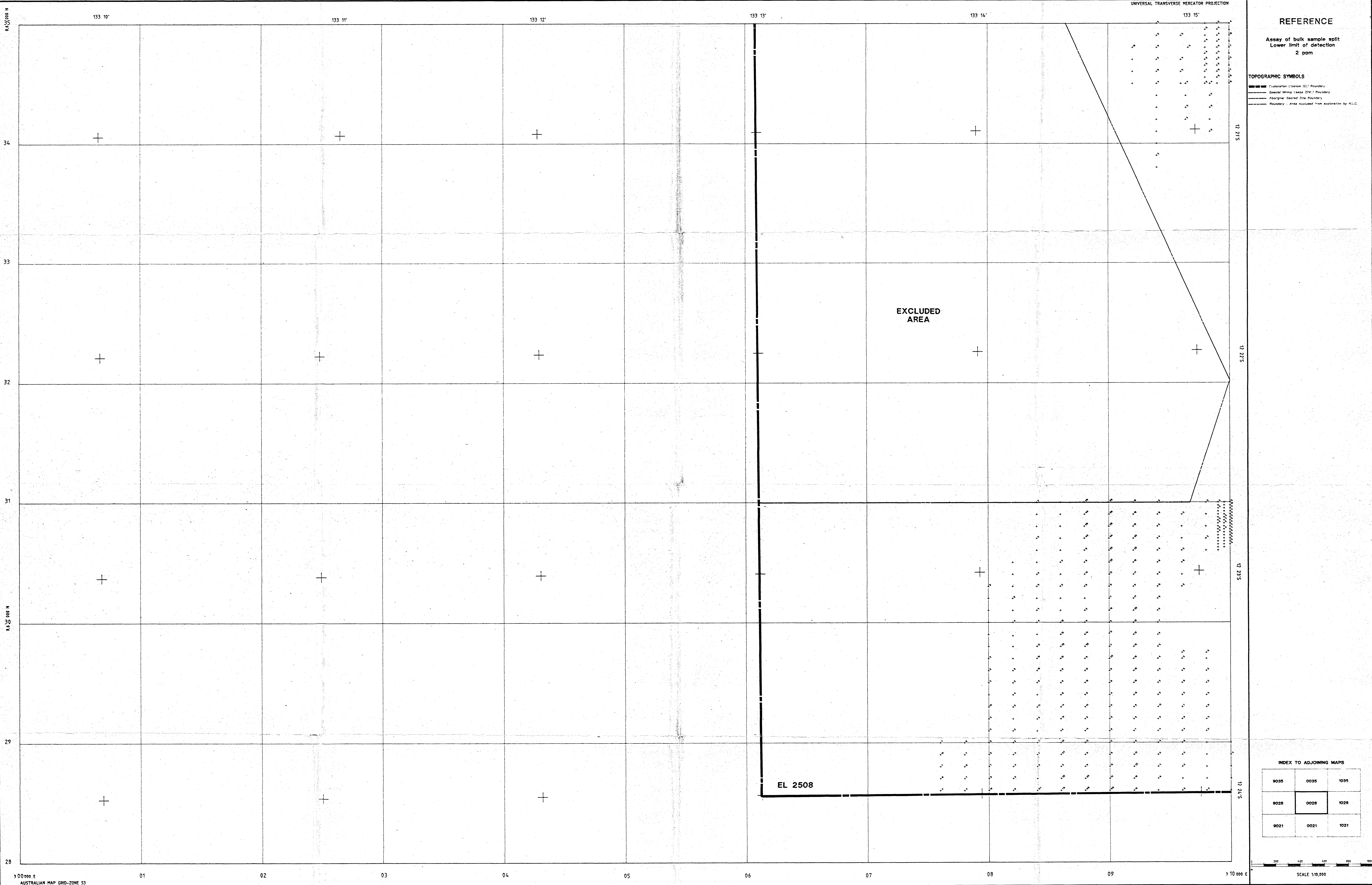
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**LEAD (Pb ppm)
SOIL GEOCHEMISTRY**

Author: DR. N. F. RUTHERFORD	Scale: 1:10,000
Drawn: C. J. DEEMAN	Computer File No. 0028APBP
Date: JAN. 89	Drawing No. 001



REFERENCE

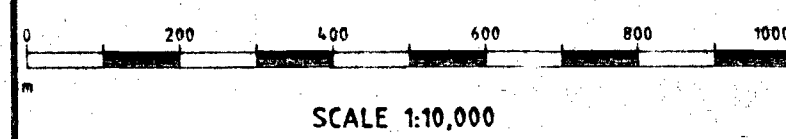
Assay of bulk sample split
Lower limit of detection
2 ppm

TOPOGRAPHIC SYMBOLS

- Exploration Licence (EL) Boundary
- Special Mining Lease (SML) Boundary
- Prognostic Survey Site Boundary
- Boundary - Area excluded from exploration by N.L.C.

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SCALE 1:10,000

Amendment	Date	Description

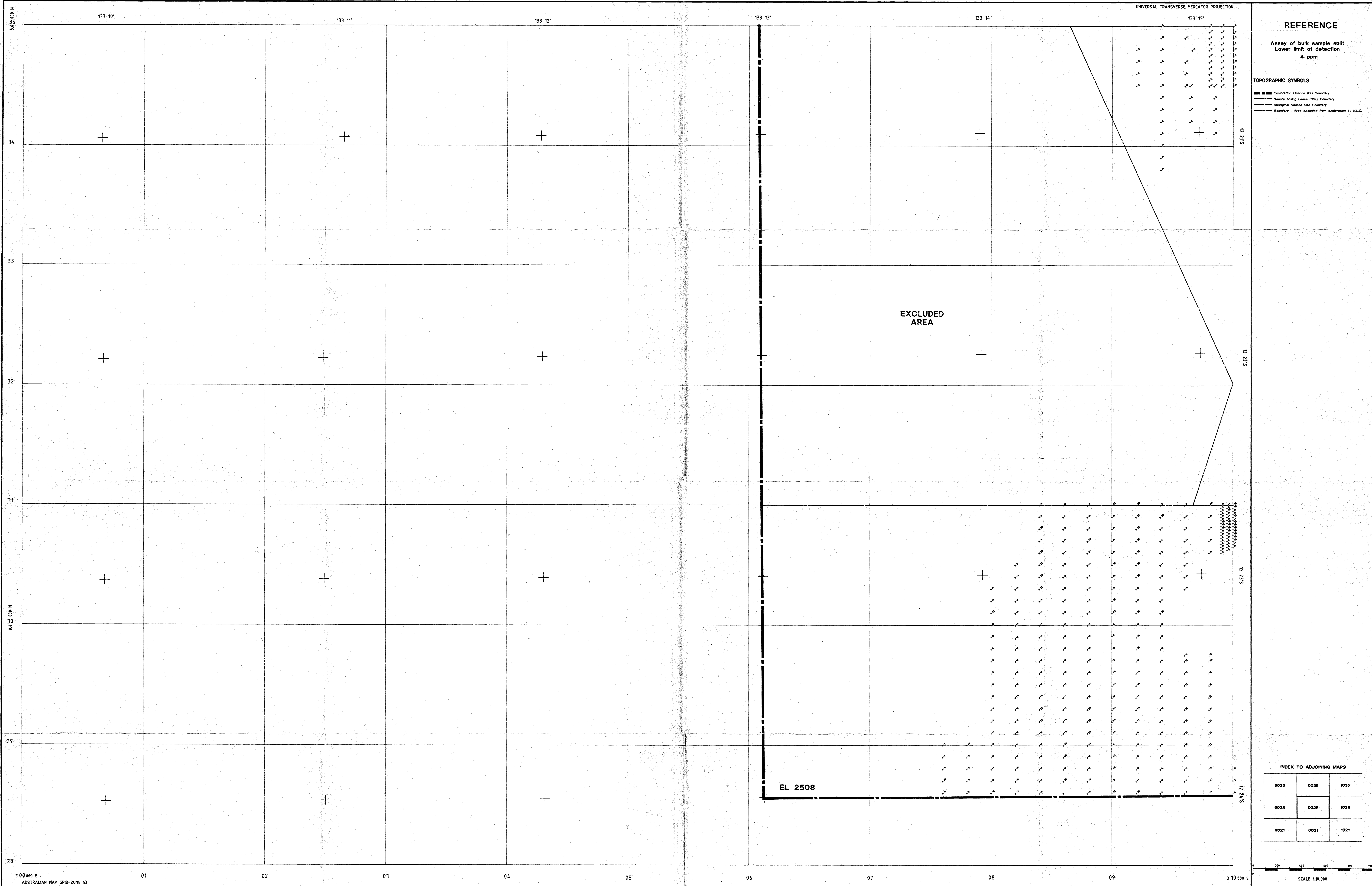
TRUE NORTH, GRID NORTH AND MAGNETIC NORTH ARE SHOWN. MAGNETICALLY FOR THE CENTRE OF THE MAP. MAGNETIC NORTH IS CORRECT TO 1985 AND MOVES WESTERLY BY 0.4" IN ABOUT EIGHT YEARS.

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**ZINC (Zn ppm)
SOIL GEO CHEMISTRY**

Author: DR. N. F. RUTHERFORD	Scale: 1:10,000
Drawn: C. J. DEEMAN	Computer File No: 0028AZNP
Date: JAN. 85	Drawing No: 092



REFERENCE

Assay of bulk sample split
Lower limit of detection
4 ppm

TOPOGRAPHIC SYMBOLS

- Exploration Licence (EL) Boundary
- Special Mining Lease (SML) Boundary
- Aboriginal Sacred Site Boundary
- Boundary - Area excluded from exploration by N.L.C.

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Amendment	Date	Description

TRUE NORTH, GRID NORTH AND MAGNETIC NORTH ARE SHOWN DIAGRAMMATICALLY FOR THE CENTRE OF THE MAP. MAGNETIC NORTH IS CORRECT FOR 1988 AND MOVES WESTERLY BY 0.1° IN ABOUT FORTY YEARS.

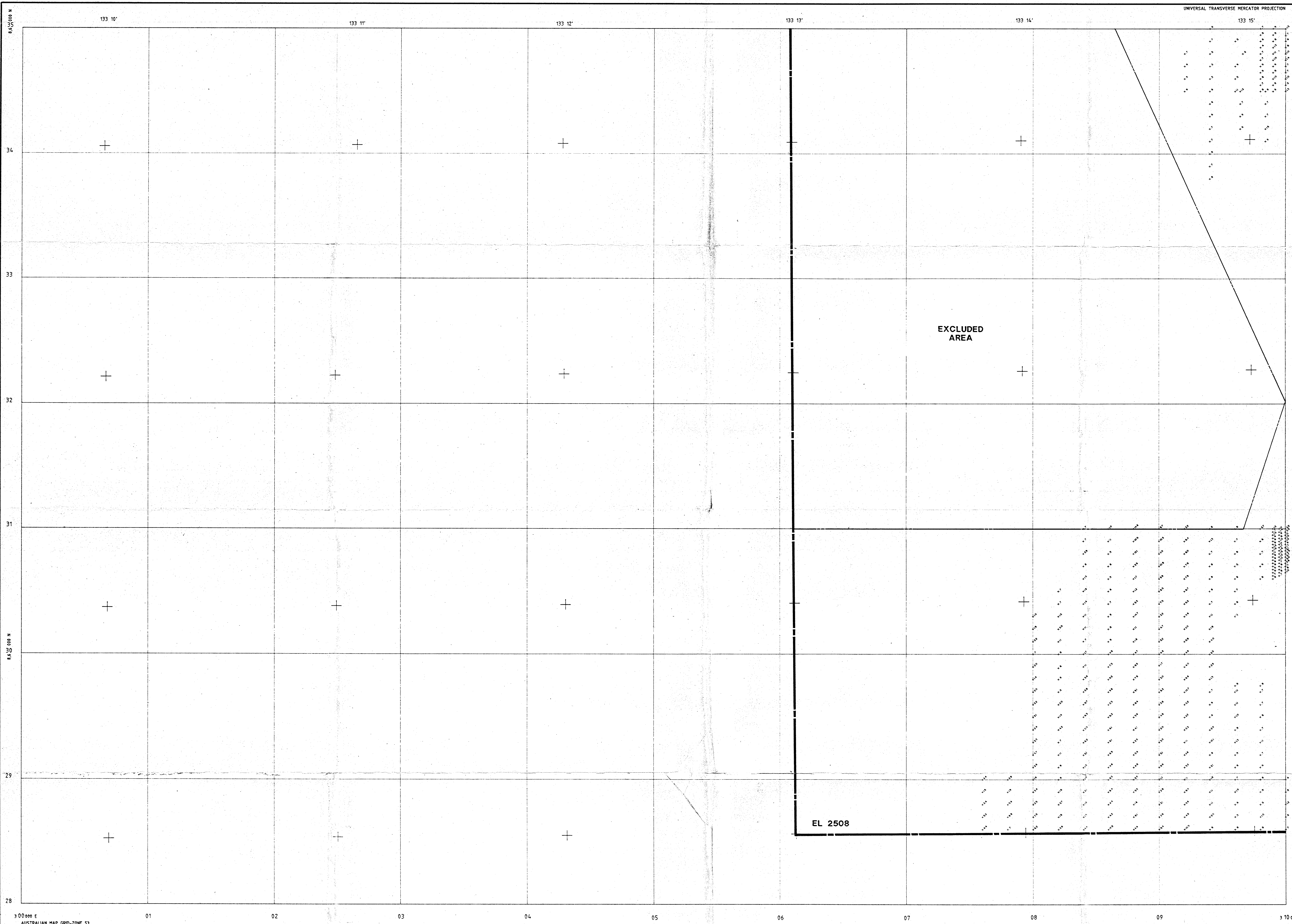
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**NICKEL (Ni ppm)
SOIL GEOCHEMISTRY**

Author: DR. N. F. RUTHERFORD	Scale: 1:10,000
Drawn: C. J. DEEMAN	Computer File No. 0028ANP
Date: JAN. 89	Drawing No. 093



REFERENCE
Assay of bulk sample split
Lower limit of detection
0.01 ppm

TOPOGRAPHIC SYMBOLS
Exploration Licence (EL) Boundary
Special Mining Lease (SML) Boundary
Aboriginal Sacred Site Boundary
Boundary - Area excluded from exploration by N.L.G.

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SCALE 1:10,000

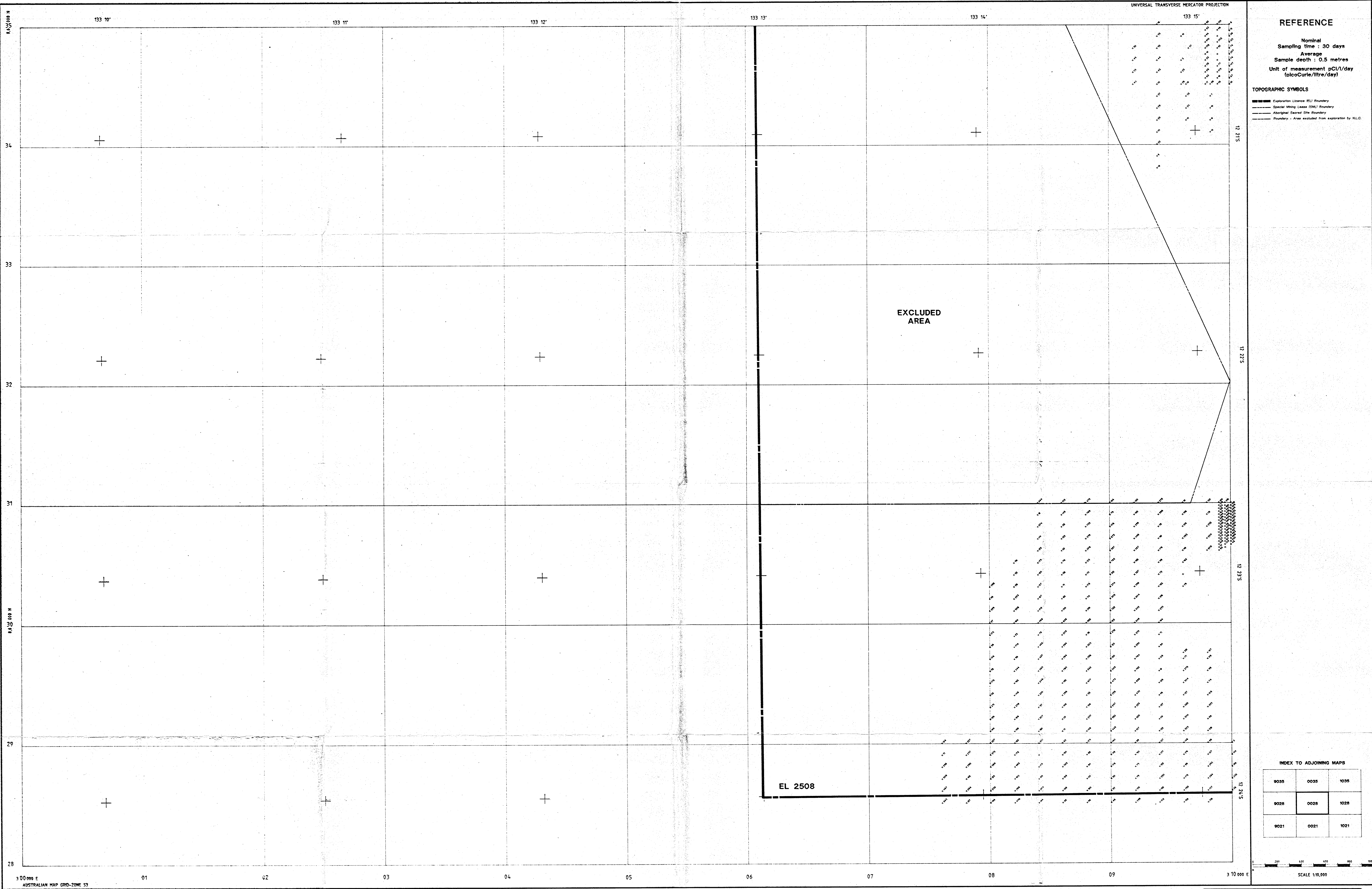
Amendment	Date	Description

THIS NORTH ARROW POINTS TO MAGNETIC NORTH AND IS SHOWN LOCALLY. FOR THE CENTRE OF THE MAP, MAGNETIC NORTH IS CORRECT. THE POIN AND MOVES WESTWARD BY 0.1 IN ABOUT EIGHT YEARS.

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ARNHEM LAND EXPLORATION PROJECT, EL 2508
IRON (Fe %) SOIL GEOCHEMISTRY

Author: DR. N. F. RUTHERFORD	Scale: 1:10,000
Drawn: C. J. DEOMAN	Computer File No. 0028AFEP
Date: JAN. 89	Drawing No. 094



REFERENCE

Nominal
Sampling time : 30 days
Average
Sample depth : 0.5 metres
Unit of measurement pCi/l/day
(picoCurie/litre/day)

TOPOGRAPHIC SYMBOLS

- Exploration Licence (EL) Boundary
- Special Mining Lease (SML) Boundary
- Aboriginal Sacred Site Boundary
- Boundary - Area excluded from exploration by N.L.G.

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SCALE 1:10,000

Amendment	Date	Description

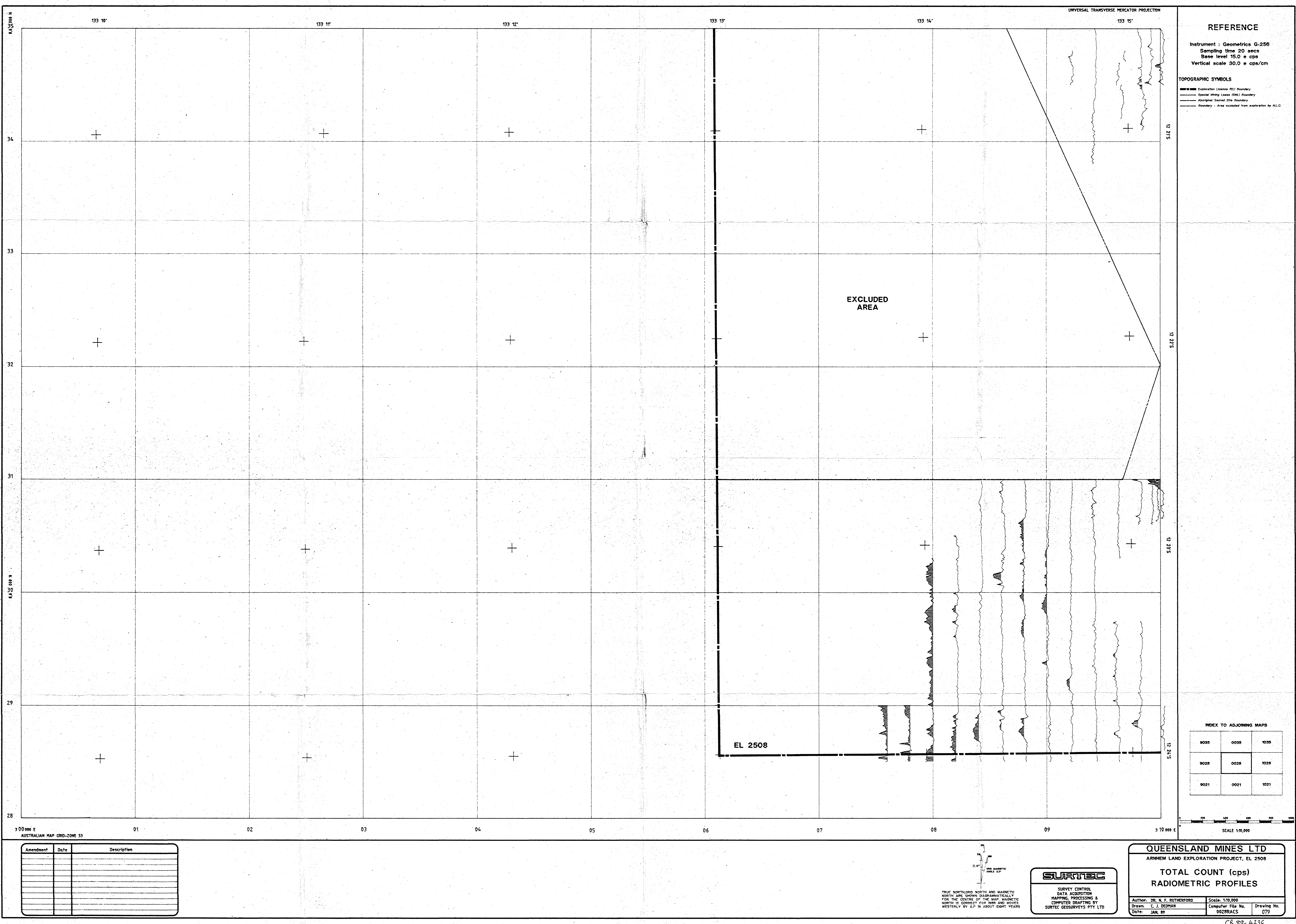
TRUE NORTH, GRID NORTH AND MAGNETIC NORTH ARE SHOWN DIAGRAMMATICALLY FOR THE CENTRE OF THE MAP. MAGNETIC NORTH IS CORRECT FOR 1980 AND MOVES WESTERLY BY 0.1° IN ABOUT EIGHT YEARS.

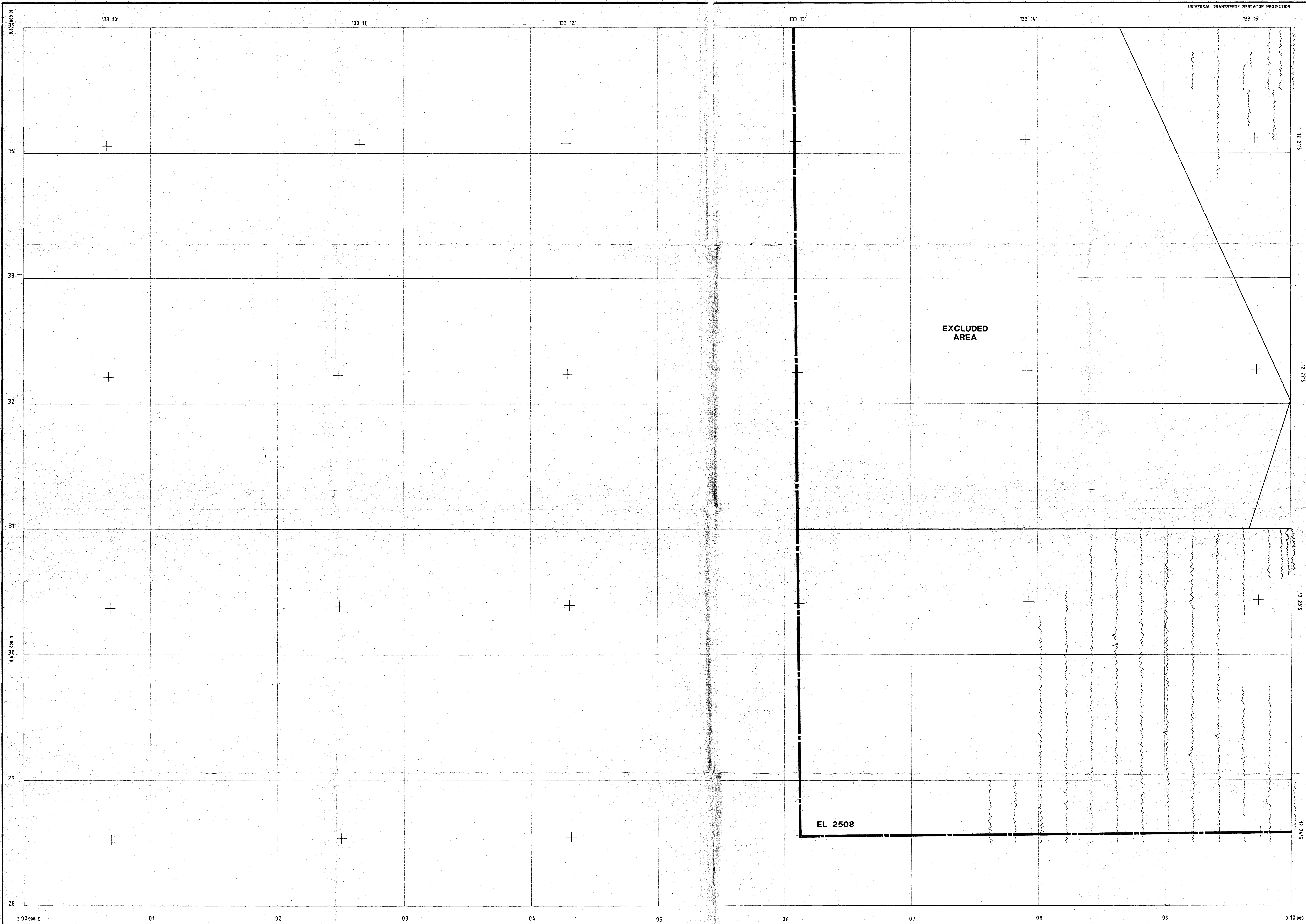
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RADON (pCi/l/day)
(TRACK ETCH CUP TECHNIQUE)

Author: DR. N. F. RUTHERFORD	Scale: 1:10,000
Drawn: C. J. DEEMAN	Computer File No. 0028RN
Date: JAN 89	Drawing No. 095





REFERENCE

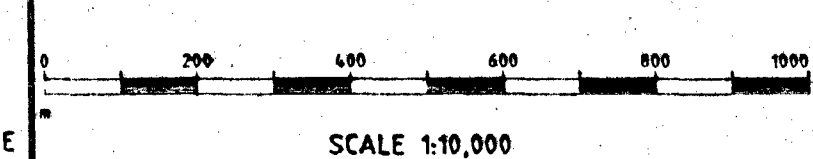
Instrument : Geometrics G-256
Sampling time 20 secs
Base level 5.0 e ppm
Vertical scale 15.0 e ppm/cm

TOPOGRAPHIC SYMBOLS

- Exploration Licence (EL) Boundary
- Special Mining Lease (SML) Boundary
- Aboriginal Sacred Site Boundary
- Boundary - Area excluded from exploration by NLC

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Amendment	Date	Description

TRUE NORTH, GRID NORTH AND MAGNETIC NORTH ARE SHOWN DIAGRAMMATICALLY FOR THE CENTRE OF THE MAP. MAGNETIC NORTH IS CORRECT FOR 1990 AND MOVES WESTERLY BY 0.1° IN ABOUT EIGHT YEARS.

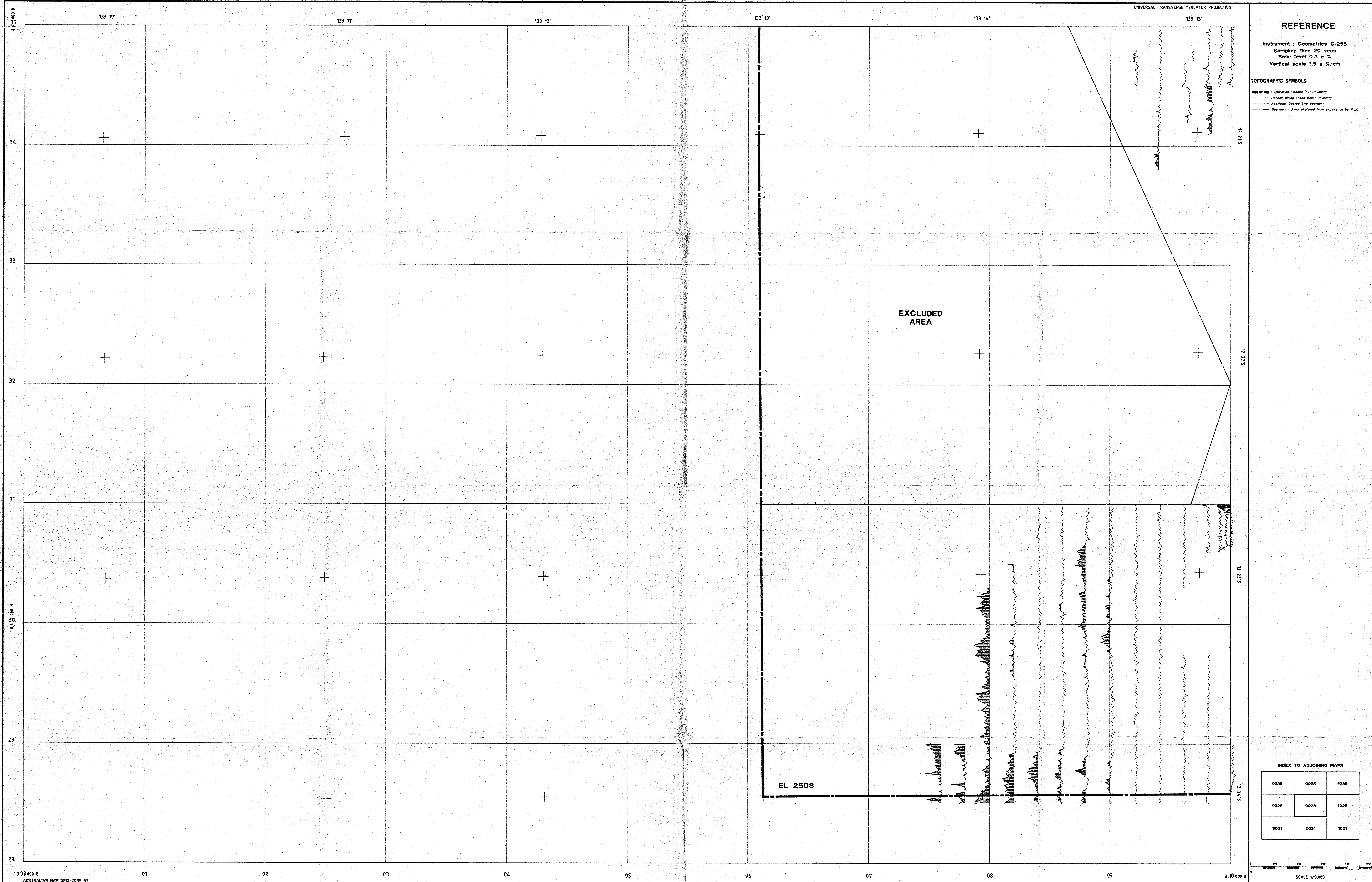
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**URANIUM (e ppm)
RADIOMETRIC PROFILES**

Author: DR. N. F. RUTHERFORD	Scale: 1:10,000
Drawn: C. J. DEWMAN	Computer File No: 0028RAUS
Date: JAN. 89	Drawing No: 080



REFERENCE

Instrument : Geometrics G-256
Sampling time 20 secs
Base level 0.3 e %
Vertical scale 1.5 e %/cm

TOPOGRAPHIC SYMBOLS

- Exploration Licence (EL) Boundary
- Special Mining Lease (SML) Boundary
- Aboriginal Sacred Site Boundary
- Boundary - Area excluded from exploration by N.L.G.

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Amendment	Date	Description

TRUE NORTH, GRID NORTH AND MAGNETIC NORTH ARE SHOWN DIAGRAMMATICALLY FOR THE CENTRE OF THE MAP. MAGNETIC NORTH IS CORRECT FOR 1988 AND MOVES WESTERLY BY 0.1° IN ABOUT EIGHT YEARS

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QUEENSLAND MINES LTD
ARNHEM LAND EXPLORATION PROJECT, EL 2508
**POTASSIUM (e %)
RADIOMETRIC PROFILES**
Author: DR. N. F. RUTHERFORD
Scale: 1:10,000
Drawn: C. J. OEDMAN
Computer File No. 0028RAKS
Date: JAN. 89
Drawing No. 051



REFERENCE

Instrument : Geometrics G-256
Sampling time 20 secs
Base level 15.0 e ppm
Vertical scale 30.0 e ppm/cm

TOPOGRAPHIC SYMBOLS

- Exploration Licence (EL) Boundary
- General Mining Lease (GML) Boundary
- Aboriginal Capped Site Boundary
- Boundary - Area excluded from exploration by NLG

INDEX TO ADJOINING MAPS

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SCALE 1:10,000

Amendment	Date	Description

TRUE NORTH, GRID NORTH AND MAGNETIC NORTH ARE SHOWN SYMBOLICALLY FOR THE CENTRE OF THE MAP. MAGNETIC NORTH IS CORRECT FOR YEAR AND MOVES WESTERLY BY 0.4" IN ABOUT EIGHT YEARS

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**THORIUM (e ppm)
RADIOMETRIC PROFILES**
Author: DR. N. F. RUTHERFORD
Drawn: C. J. DEEDMAN
Date: JAN. 89
Scale: 1:10,000
Computer File No: 0028RATS
Drawing No: 082