

REFERENCE



3 10 000 E AUSTRALIAN MAP GRID-ZONE 54 11 12 13 14 15 16 17 18 19 3 20 000 E

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Amendment	Date	Description

TRUE NORTH, NORTH AND MAGNETIC NORTH ARE SHOWN GRAPHICALLY 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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SURVEY CONTROL
DATA ACQUISITION
MAPPING, PROCESSING &
COMPUTER DRAFTING BY
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QUEENSLAND MINES LTD
ARNHEM LAND EXPLORATION PROJECT, EL 2508
ORTHOPHOTOMOSAIC BASE
Author: DR. N. RUTHERFORD
Drawn: C. J. DEGMAN
Date: SEPT. 88
Scale: 1:10,000
Computer File No: 1042-1
Drawing No: 096

REFERENCE

QUATERNARY

Qb Black soil & clay predominantly in drainage
minor silt / sand

Qs Unconsolidated sand, outwash, colluvium

TERTIARY TO QUATERNARY

Czt Silt / siltite & siltite rubble, sand / talus and scree

Czs Unconsolidated sand, ferruginous and clayey sand

Czl Nodular, concretionary, platy siltite, within silt
sandy, loam

Czlm Outcropping nodular concretionary, platy siltite

CARPENTARIAN

Ehn Nungbarr Volcanics

Ehk1 Kombolgie Formation
Oz sandstone, braided conglomerate hematite and
cyanite ferruginous sandstone (bedded, ripple-marked)
conglomerate lenses

EARLY PROTEROZOIC

Ebo Dengell Dolerite
Doleritic olivine dolerite, nepheline dolerite, granophyre
dolerite and differentiates, peridotite, / denotes
abundantiation of rock, / denotes horizontal of
country rockEbz Zamu Dolerite
Mafic dolerite, hornblende amphibolite

Emx Undifferentiated, inferred Myra Falls metamorphic

Eoms Quartz mica schist

Ems Quartz schist

Eqt Quartz schist

Ems Mica schist

Qs Quartzite

Eox Undifferentiated, inferred Nourlangie schist

Eoms Quartz schist

Eoms Mica schist

Eoms Mica quartz schist

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 (Dutton, Lloyd)

Fault, position approximate showing relative movement

Fault, position inferred

Fault containing breccia (bl, quartz, ol, mylonite, mt,
etc.)

Shear zone

BEDDING

Strike and dip of bedding

Strike and dip of unconformable bedding

Strike and dip of cleavage

Horizontal bedding

Trend of bedding

OTHER GEOLOGICAL SYMBOLS

Strike and dip of foliation

Strike and dip of cleavage

Atypical basement

Dike or vein (quartzite, dolerite, gabbro)

Unconformity line of "x" to younger rocks

Joint pattern

Direction of movement of sediment bearing current

TOPOGRAPHICAL SYMBOLS

Watercourse

Spring

Fencepost

Road and track

Mine

Exploration Licence (EL) Boundary

Special Mining Lease (SML) Boundary

Aboriginal Sacred Site Boundary

Boundary - Area excluded from exploration by N.L.C.

SAMPLING

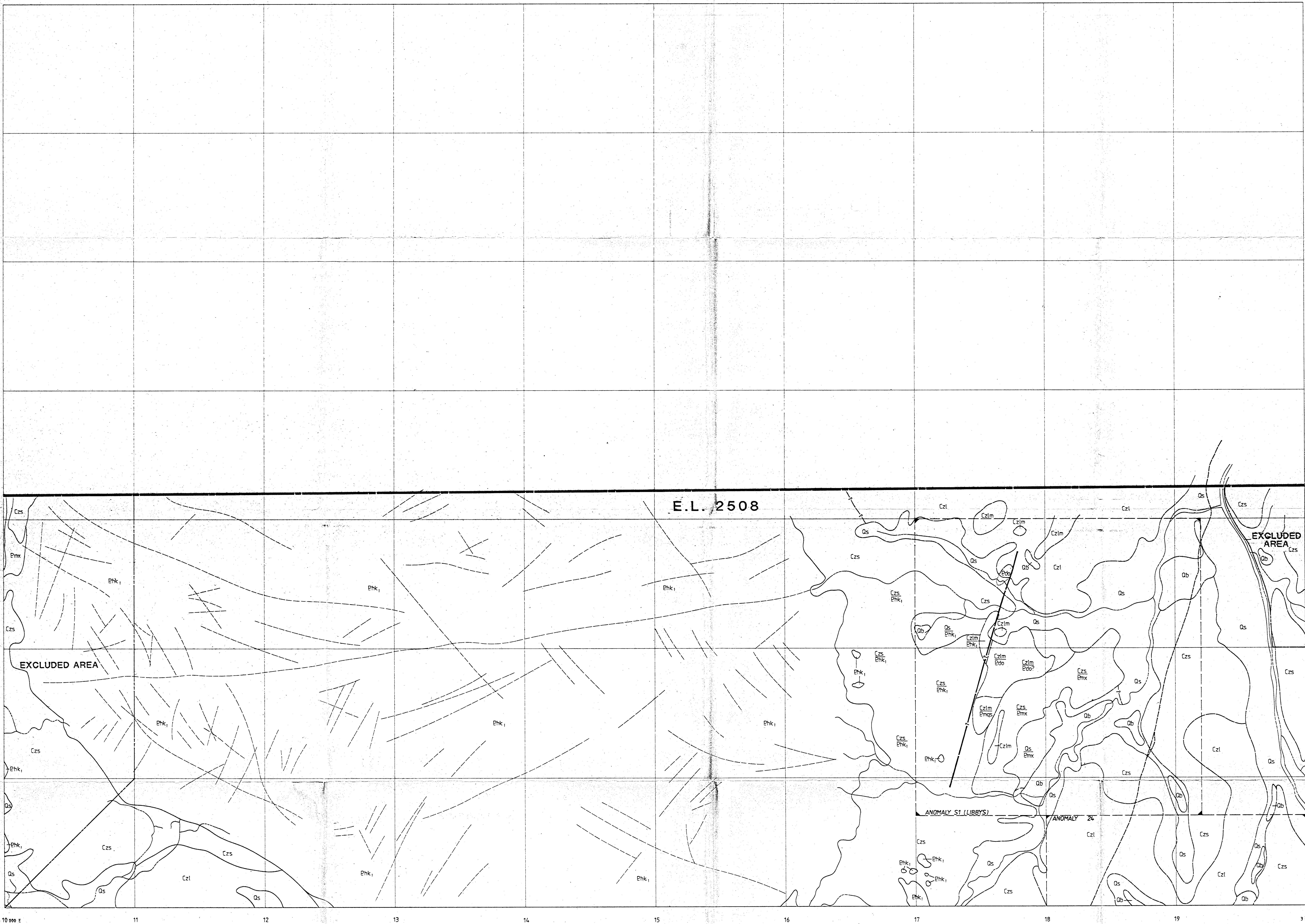
Rock Sample Location And Number (Assay,
Pulverological, Specimen)

Rock Sample for age determination

Boundary, detailed anomaly map

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0 200 400 600 800 1000
SCALE 1:10,0003 10 000 E
AUSTRALIAN MAP GRID-ZONE 53

QUEENSLAND MINES LTD

ARNHEM LAND EXPLORATION PROJECT, EL 2508

GEOLOGY

Author: DR. N. RUTHERFORD

Drawn: G. COURT

Date: SEPT. 88

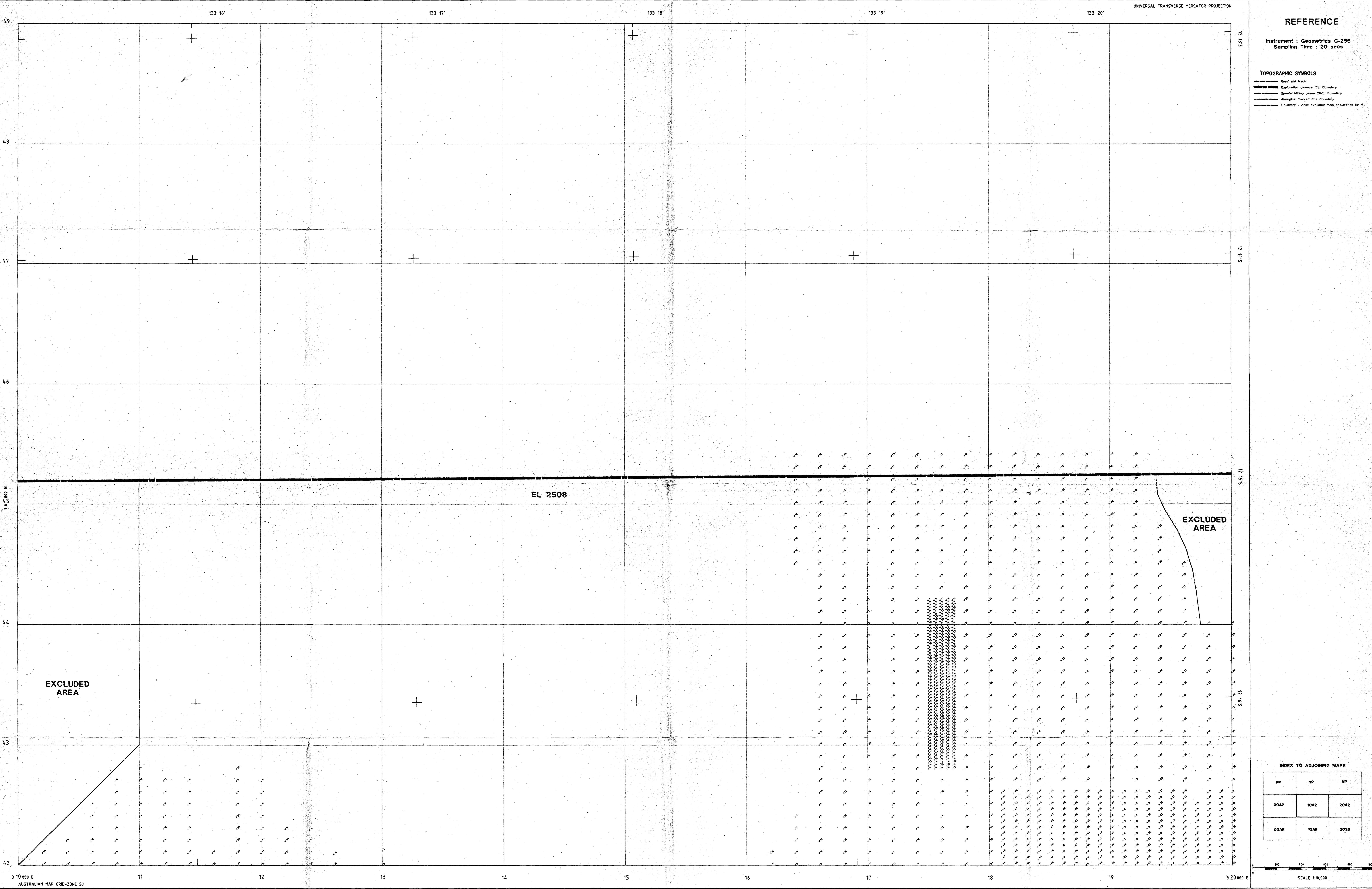
Scale: 1:10,000

Computer File No.
1042-2Drawing No.
097

SURTEC

SURVEY CONTROL
DATA ACQUISITIONMAPPING, PROCESSING &
COMPUTER DRAFTING BY
SURTEC GEOSURVEYS PTY LTDTRUE NORTH, GRID NORTH AND MAGNETIC
NORTH ARE SHOWN INDICATIVELY
FOR THE CENTRE OF THE MAP. MAGNETIC
NORTH IS CORRECT ± 1.1 IN 1988 AND MOVES
WESTERLY BY 0.1 IN ABOUT EIGHT YEARS

Amendment	Date	Description



REFERENCE

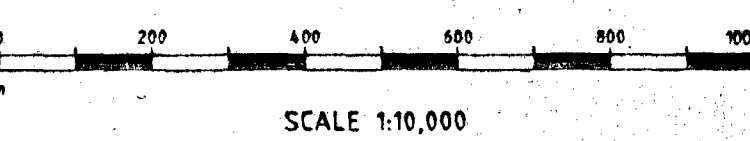
Instrument : Geometrics G-256
Sampling Time : 20 secs

TOPOGRAPHIC SYMBOLS

- Road and track
- Exploration Licence (EL) Boundary
- Special Mining Lease (SML) Boundary
- Aboriginal Sacred Site Boundary
- Boundary - Area excluded from exploration by NL

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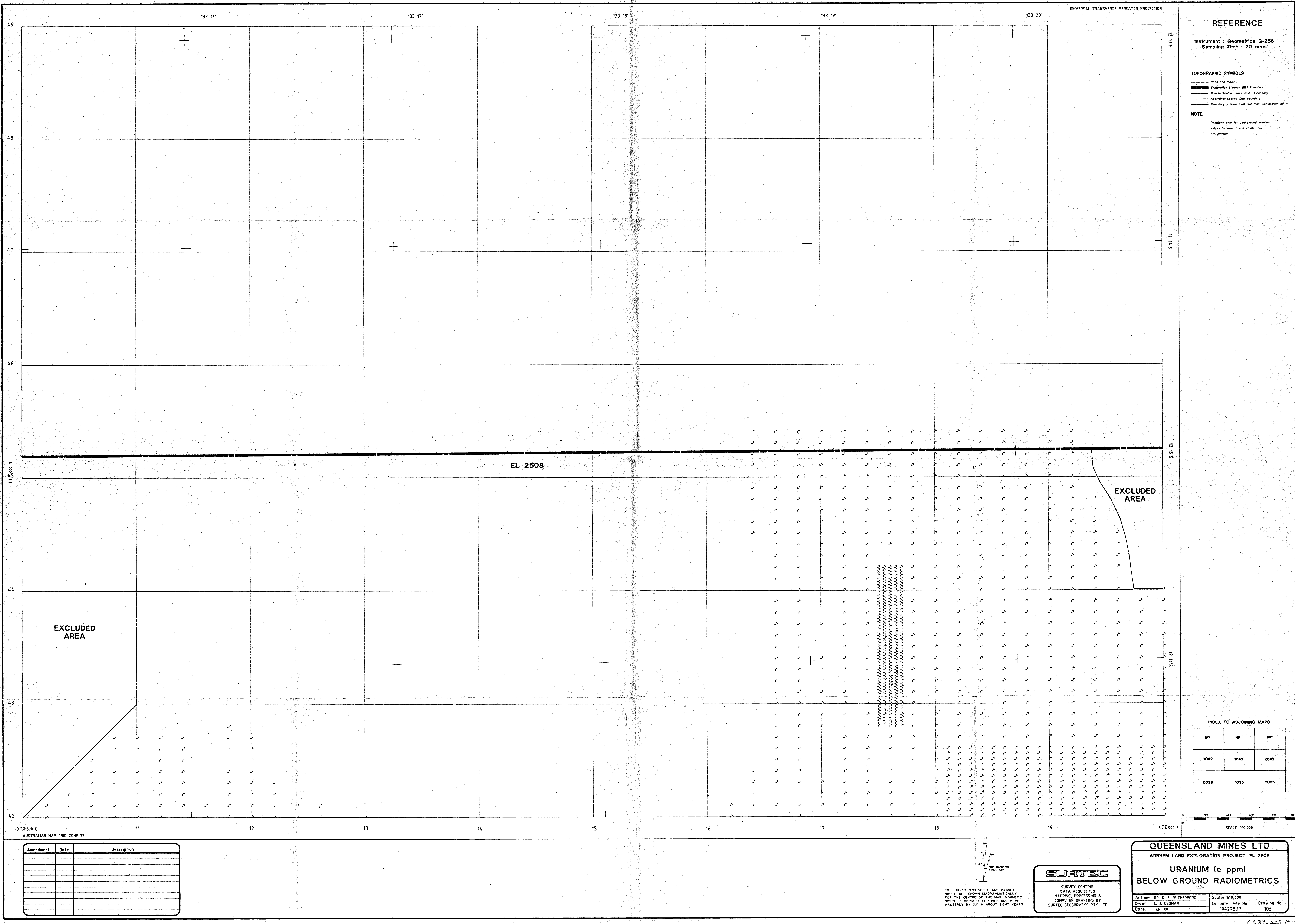


Amendment	Date	Description

TRUE NORTH, OBS. NORTH AND MAGNETIC NORTH ARE SHOWN. DIAGONALLY FOR THE CENTRE OF THE MAP. MAGNETIC NORTH IS CORRECT FOR 1988 AND MOVES WESTERLY BY 0.7° N 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. DEEMAN
Date: JAN 89
Scale: 1:10,000
Computer File No: 1042RBCP
Drawing No: 102



REFERENCE

Instrument : Geometrics G-256
Sampling Time : 20 secs

TOPOGRAPHIC SYMBOLS

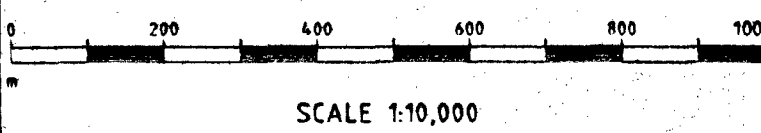
- Road and track
- Exploration Licence (EL) Boundary
- Regional Mining Lease (RML) Boundary
- Aboriginal Sacred Site Boundary
- Boundary - Area excluded from exploration by N

NOTE:

Position only for background uranium
values between 1 and 100 ppm
are plotted

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Amendment	Date	Description

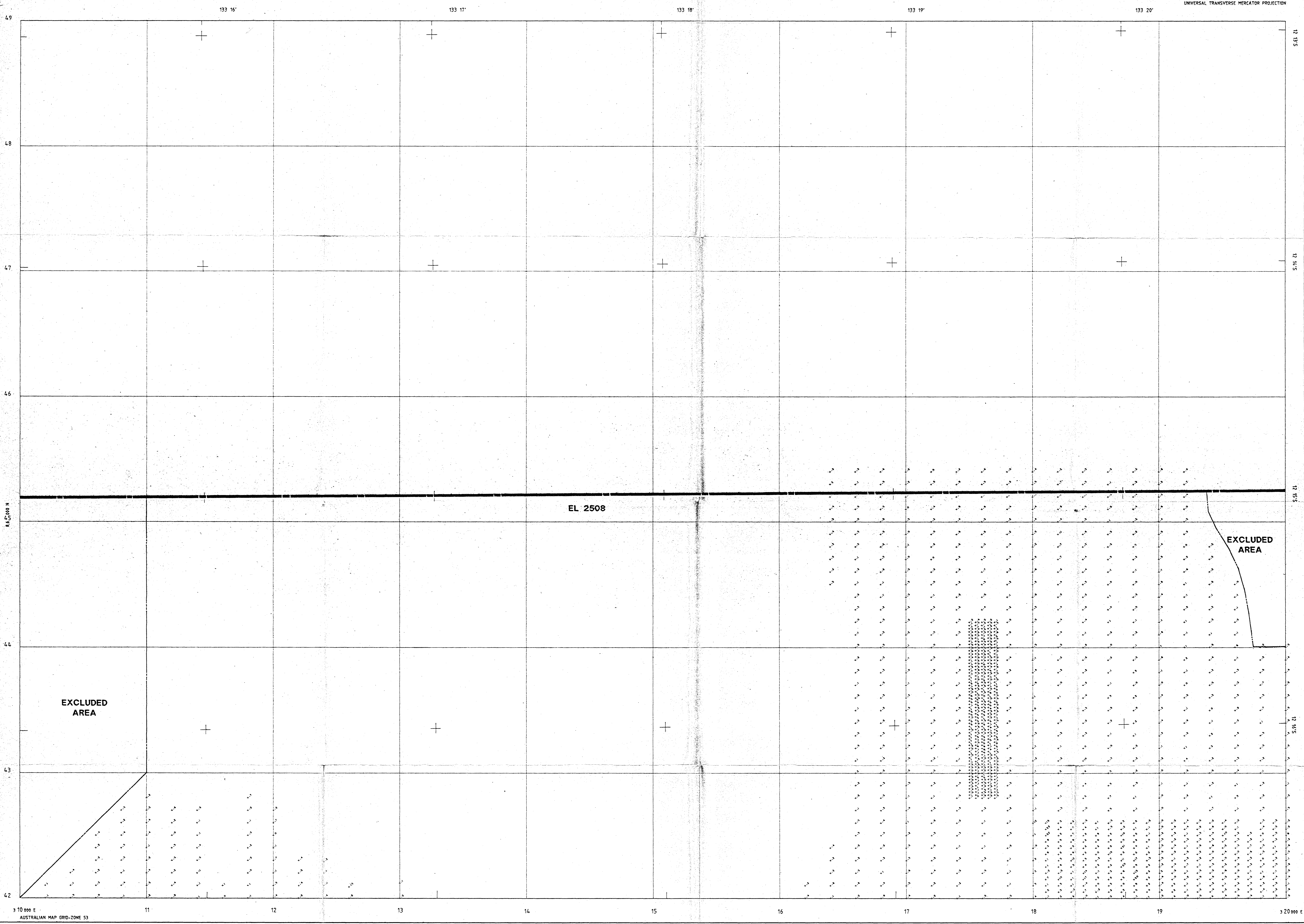
TRUE NORTH, GRID NORTH AND MAGNETIC
NORTH ARE SHOWN. DIAGONAL LINES
FOR THE CENTRE OF THE MAP. MAGNETIC
NORTH IS CORRECT FOR 1988 AND MOVES
WESTERLY BY 0.1° IN ABOUT EIGHT YEARS

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QUEENSLAND MINES LTD
ARMHEM LAND EXPLORATION PROJECT, EL 2508
URANIUM (e ppm)
BELOW GROUND RADIOMETRICS

Author: DR. N. F. RUTHERFORD
Date: JAN. 89

Scale: 1:10,000
Computer File No: 1042RBUP
Drawing No: 103



REFERENCE

Instrument : Geometrics G-256
Sampling Time : 20 secs

TOPOGRAPHIC SYMBOLS

- Road and track
- Exploration Licence (EL) Boundary
- Special Mining Lease (SML) Boundary
- Aboriginal Reserved Site Boundary
- Boundary - Area excluded from exploration by N

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SCALE 1:10,000

Amendment	Date	Description

TRUE NORTH, GRID NORTH AND MAGNETIC NORTH ARE SHOWN DIAGMATICALLY FOR THE CENTRE OF THE MAP. MAGNETIC NORTH IS CORRECT FOR 1988 AND MOVES WESTERLY BY 0.4° IN ABOUT EIGHT YEARS

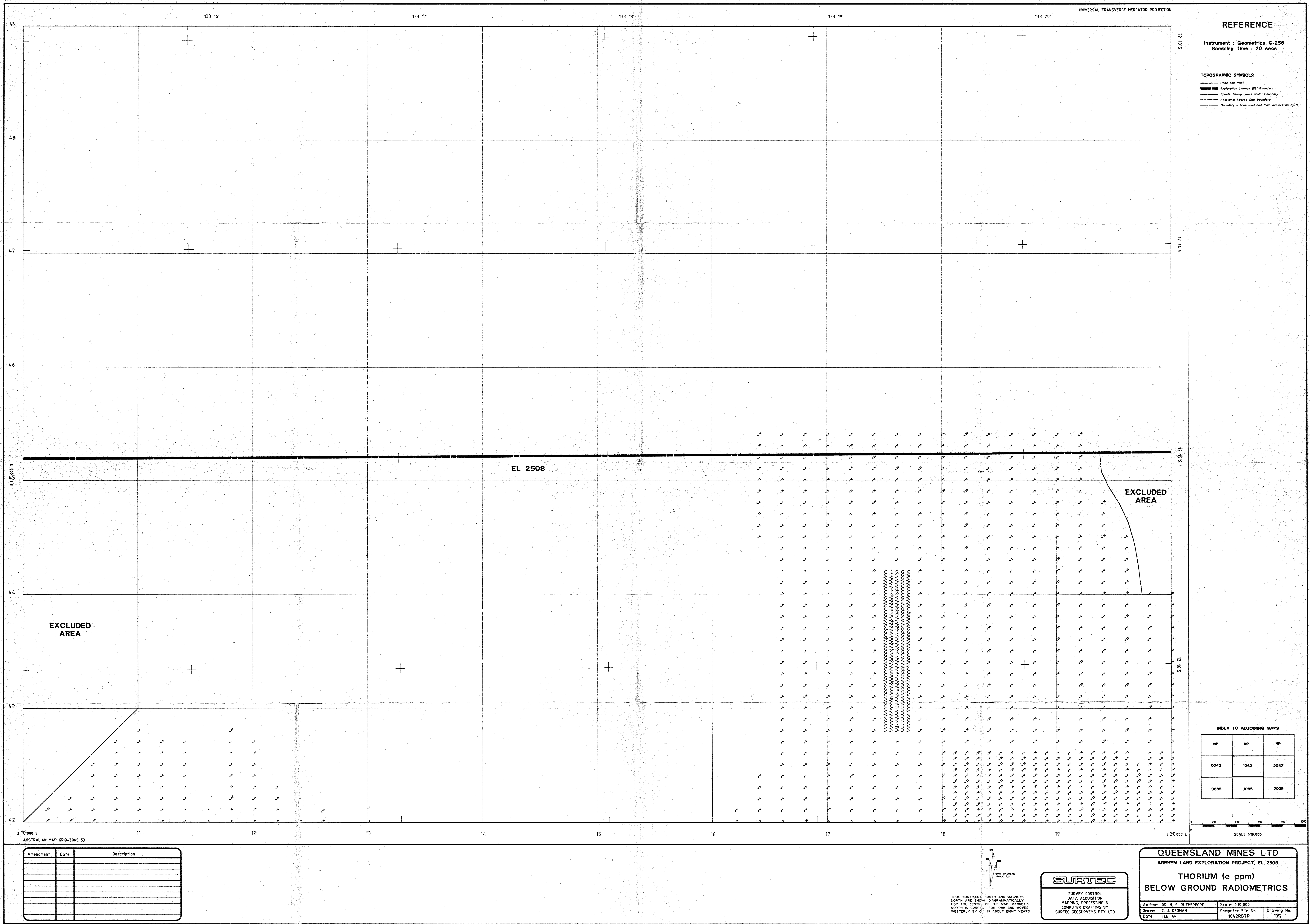
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**POTASSIUM (e %)
BELOW GROUND RADIOMETRICS**

Author: DR. N. F. RUTHERFORD	Scale: 1:10,000
Drawn: C. J. DEEMAN	Computer File No. 1042RDKP
Date: JAN. 89	Drawing No. 104



REFERENCE

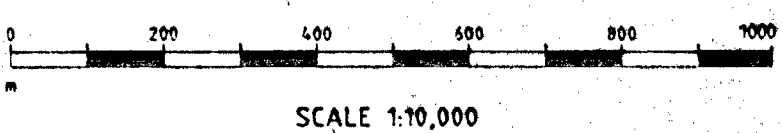
Instrument : Geometrics G-256
Sampling Time : 20 secs

TOPOGRAPHIC SYMBOLS

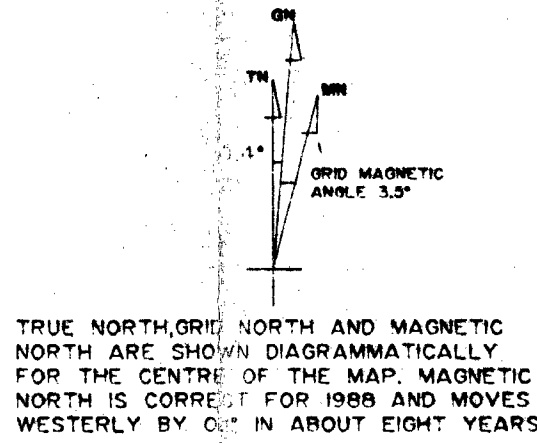
- Road and track
- Exploration Licence (EL) Boundary
- Special Mining Lease (SML) Boundary
- Aboriginal Stated Site Boundary
- Boundary - Area excluded from exploration by N

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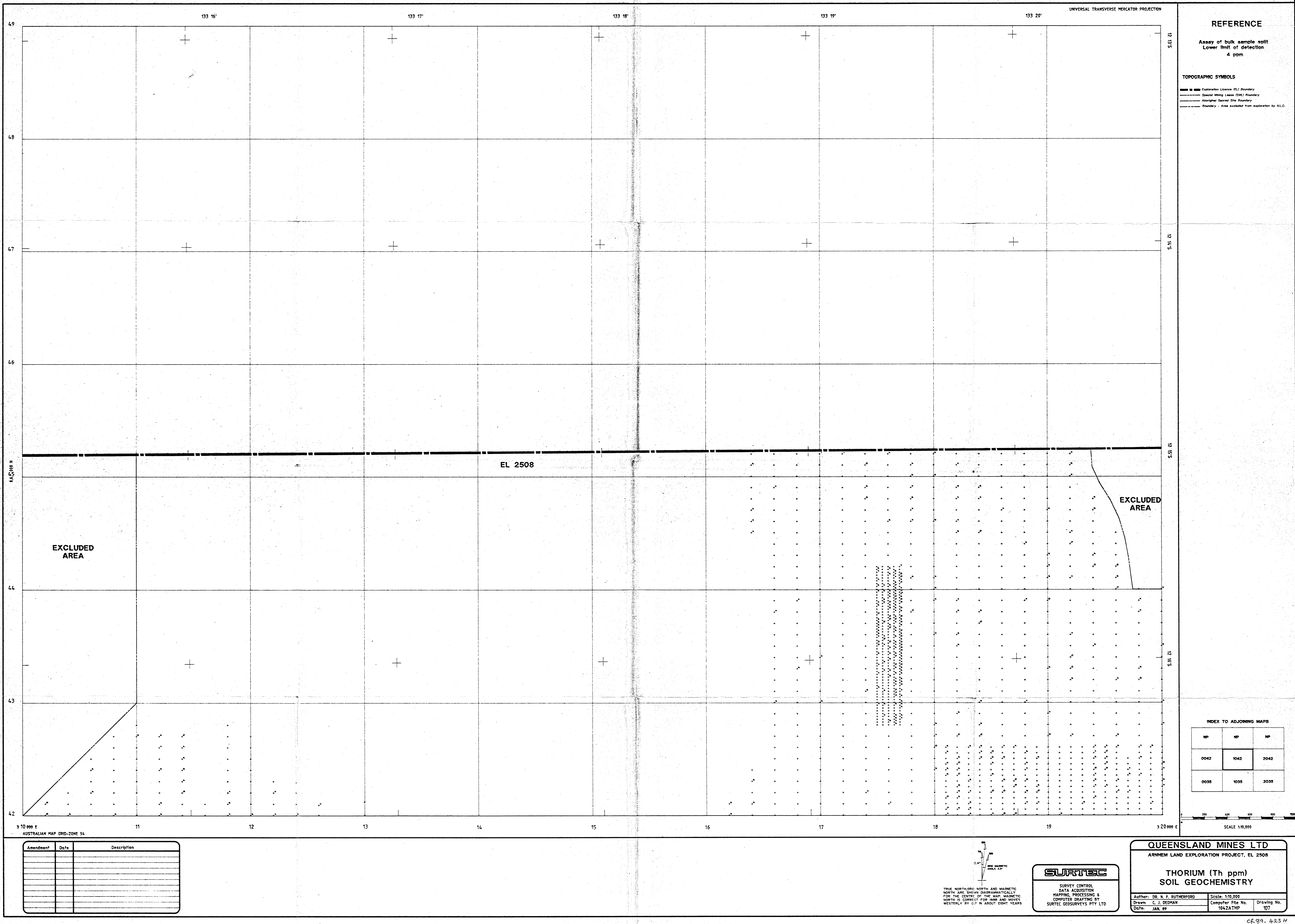
Amendment	Date	Description

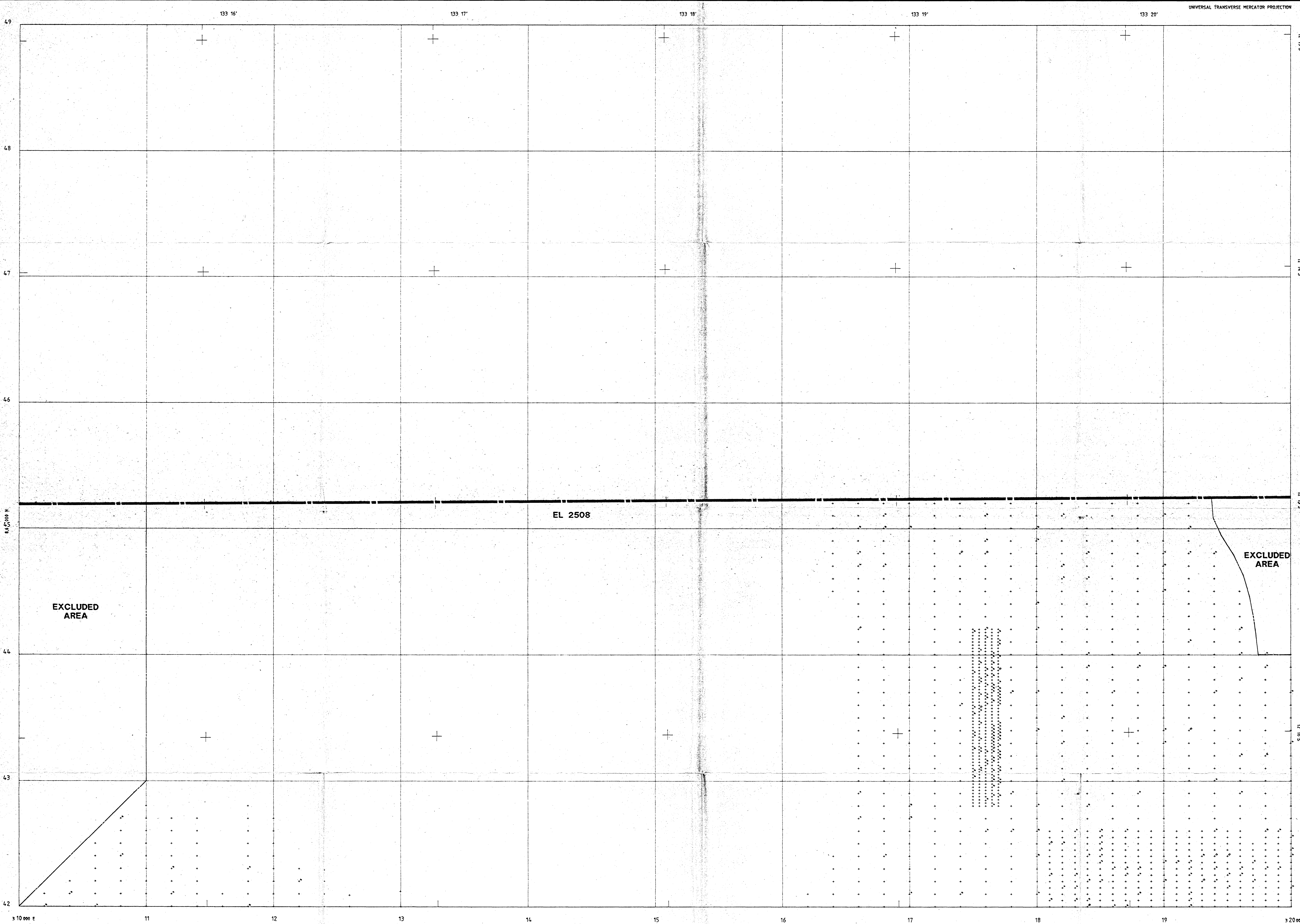


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QUEENSLAND MINES LTD
ARMHURST LAND EXPLORATION PROJECT, EL 2508
THORIUM (e ppm)
BELOW GROUND RADIOMETRICS

Author: DR. N. F. RUTHERFORD	Scale: 1:10,000
Drawn: C. J. DEEMAN	Computer File No. 1042RBT
Date: JAN. 89	Drawing No. 105





REFERENCE

Assay of bulk sample split
Lower limit of detection
4 ppm

TOPOGRAPHIC SYMBOLS

- Exploration Licence (EL) Boundary
- Original Mining Lease (OML) Boundary
- Aboriginal Sacred 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 DIAGRAMMATICALLY FOR THE CENTRE OF THE MAP. MAGNETIC NORTH IS CORRECT FOR 1988 AND MOVES WESTERLY BY 0.7° IN ABOUT EIGHT YEARS.

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ARNHEM LAND EXPLORATION PROJECT, EL 2508

**URANIUM (U ppm)
SOIL GEOCHEMISTRY**

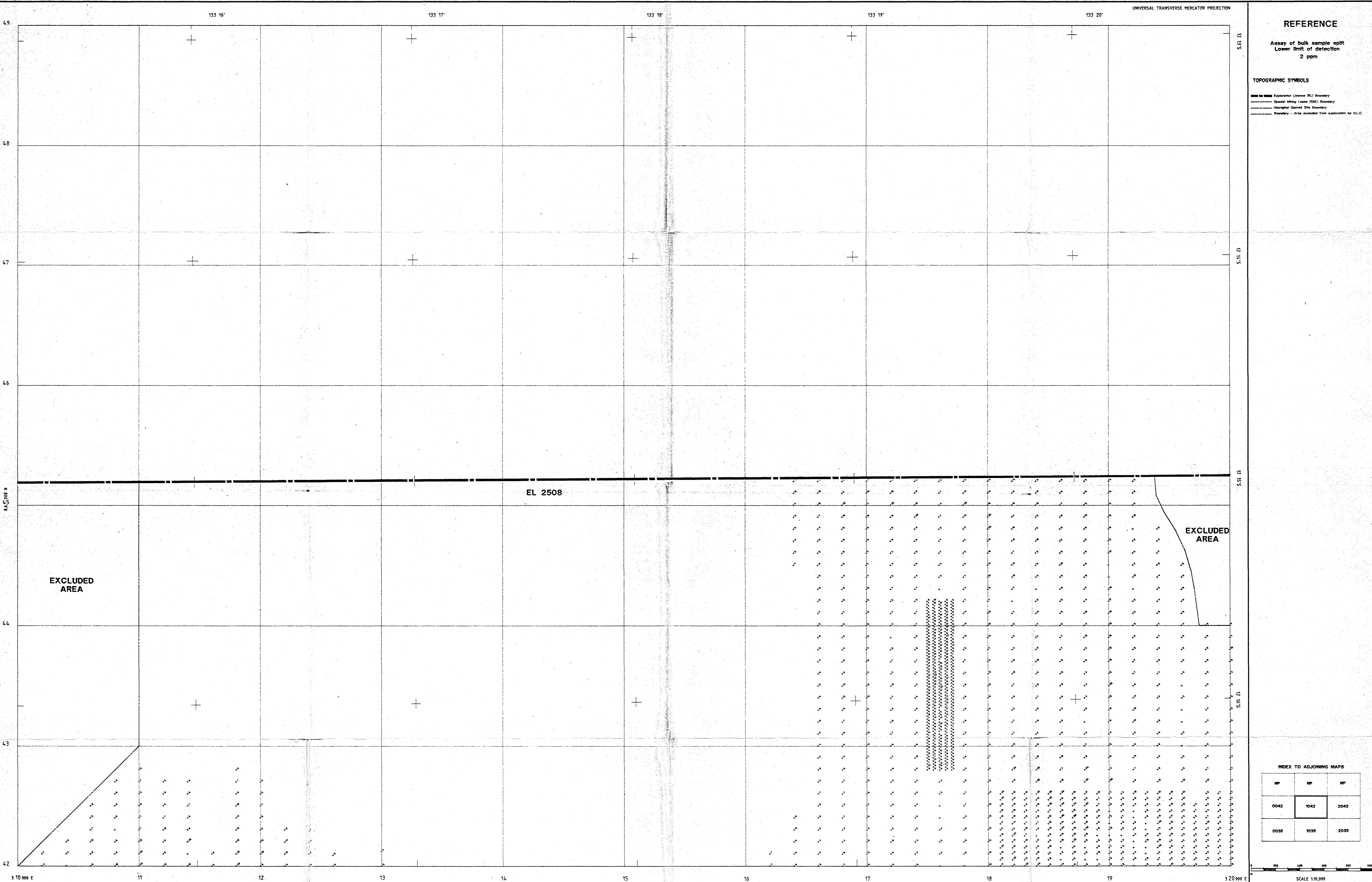
Author: DR. N. E. RUTHERFORD	Scale: 1:10,000
Drawn: C. J. DEGMAN	Computer File No. 1042AUP
Date: JAN. 89	Drawing No. 106

REFERENCE

Assay of bulk sample split
Lower limit of detection
2 ppm

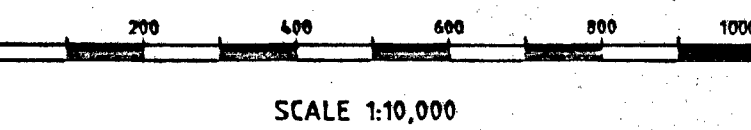
TOPOGRAPHIC SYMBOLS

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

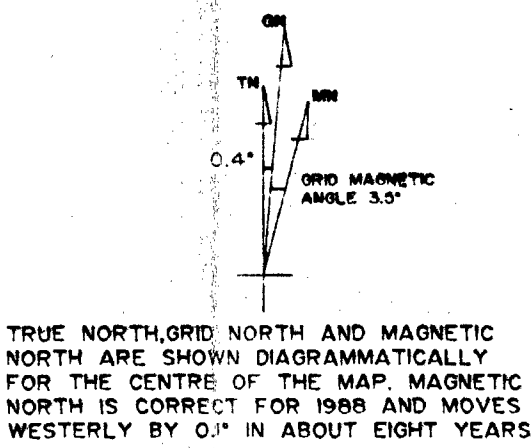


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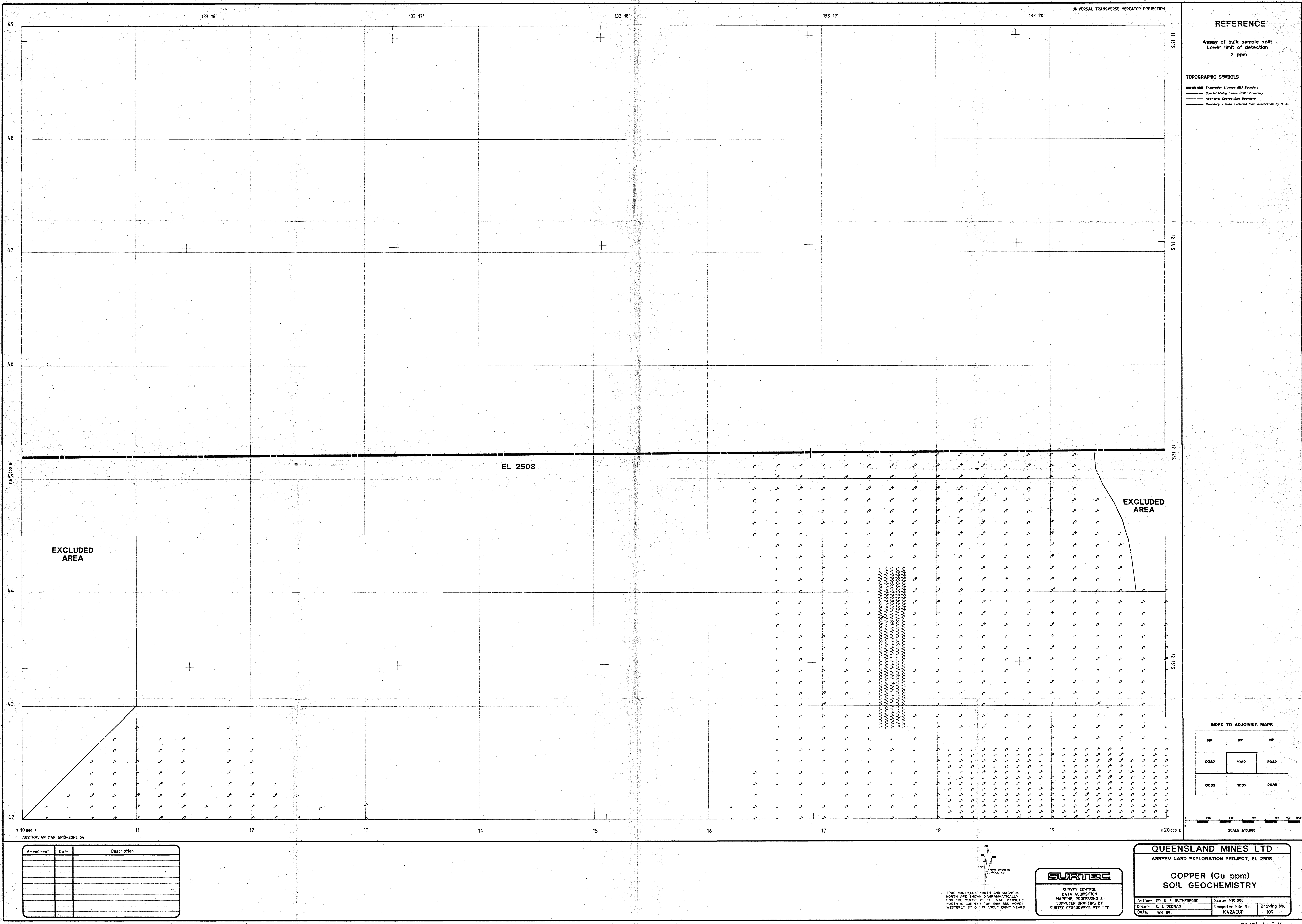
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ARMHEM LAND EXPLORATION PROJECT, EL 2508

**ARSENIC (As ppm)
SOIL GEOCHEMISTRY**

Author: DR. N. S. RUTHERFORD	Scale: 1:10,000
Drawn: C. J. DEHAM	Computer File No. 1042AASP
Date: JAN. 89	Drawing No. 108



REFERENCE

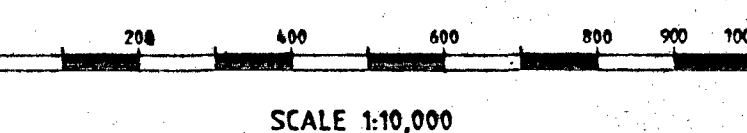
Assay of bulk sample split
Lower limit of detection
2 ppm

TOPOGRAPHIC SYMBOLS

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

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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 1984 AND MOVES WESTERLY BY 0.1° IN ABOUT EIGHT YEARS.

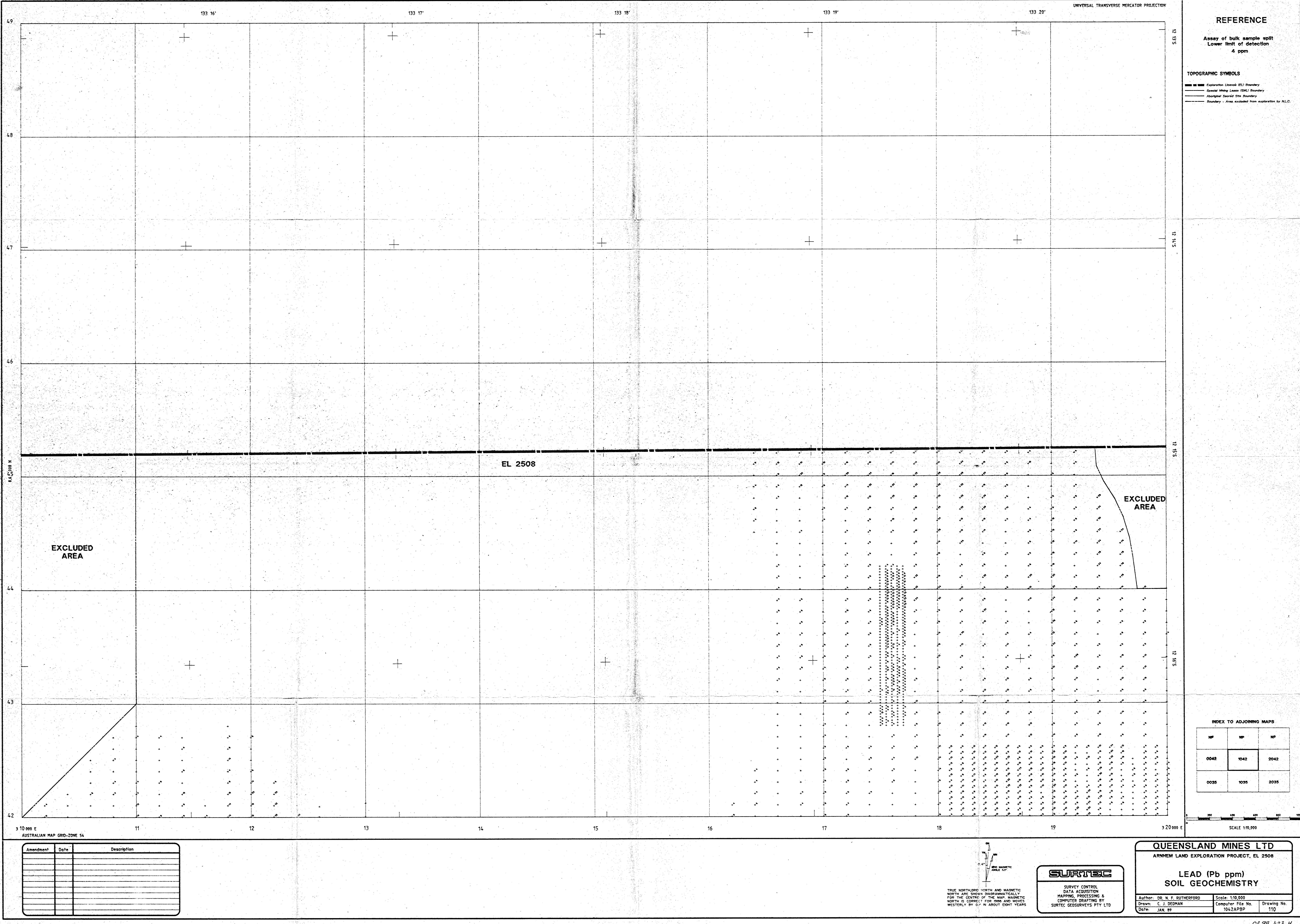
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QUEENSLAND MINES LTD
ARWHEW LAND EXPLORATION PROJECT, EL 2508

**COPPER (Cu ppm)
SOIL GEOCHEMISTRY**

Author: DR. M. F. RUTHERFORD	Scale: 1:10,000	Computer File No.	Drawing No.
Drawn: C. J. DEEMAN	1042ACUP	109	109
Date: JAN. 89			



REFERENCE

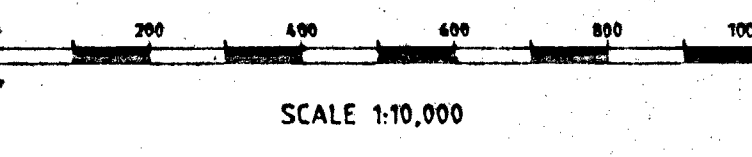
Assay of bulk sample split
Lower limit of detection
4 ppm

TOPOGRAPHIC SYMBOLS

- Exploration License (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 EIGHT YEARS.

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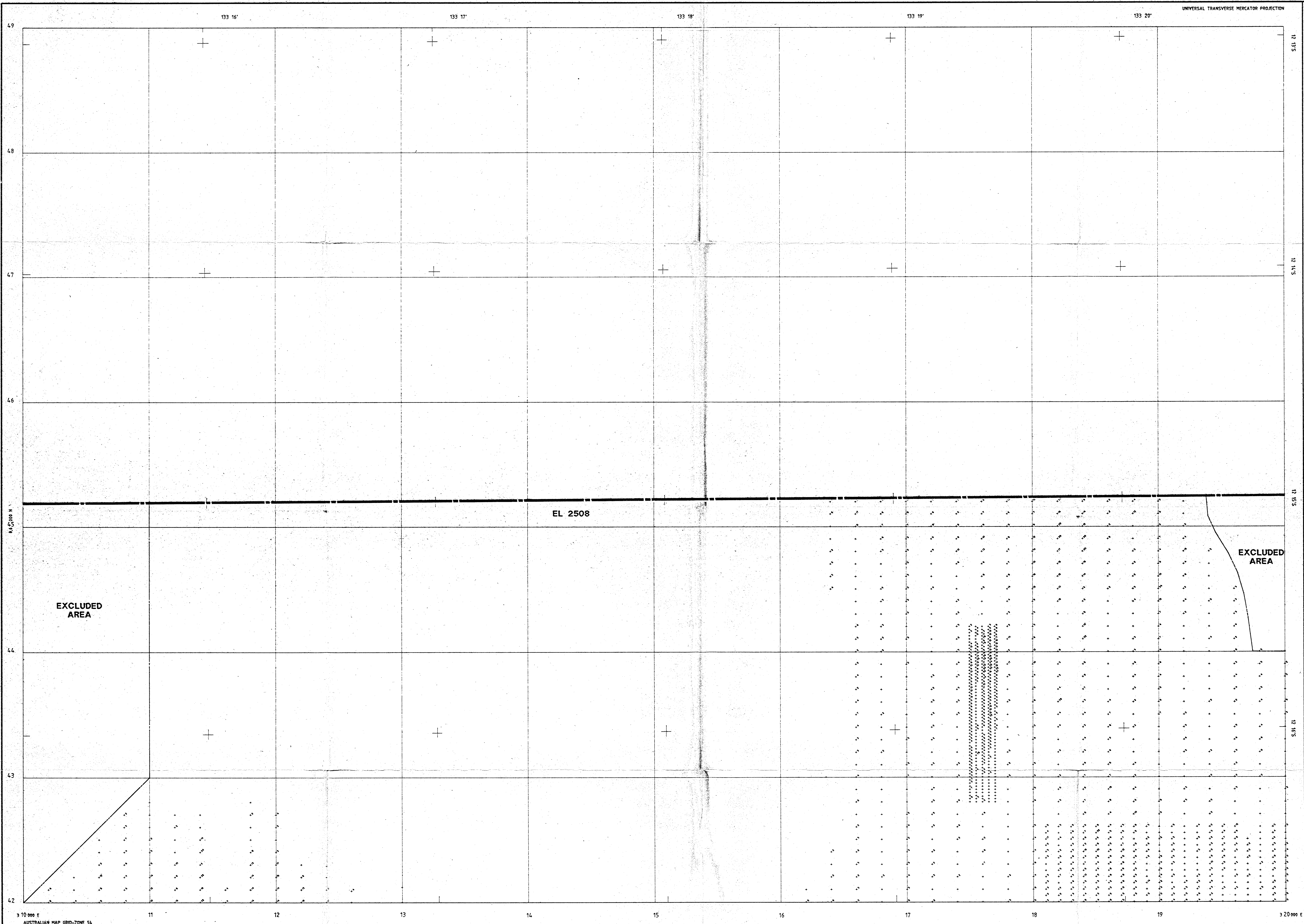
QUEENSLAND MINES LTD
ARMEM LAND EXPLORATION PROJECT, EL 2508

**LEAD (Pb ppm)
SOIL GEOCHEMISTRY**

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

Scale: 1:10,000
Computer File No:
1042APBP

Drawing No:
110



REFERENCE
Assay of bulk sample split
Lower limit of detection
2 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.

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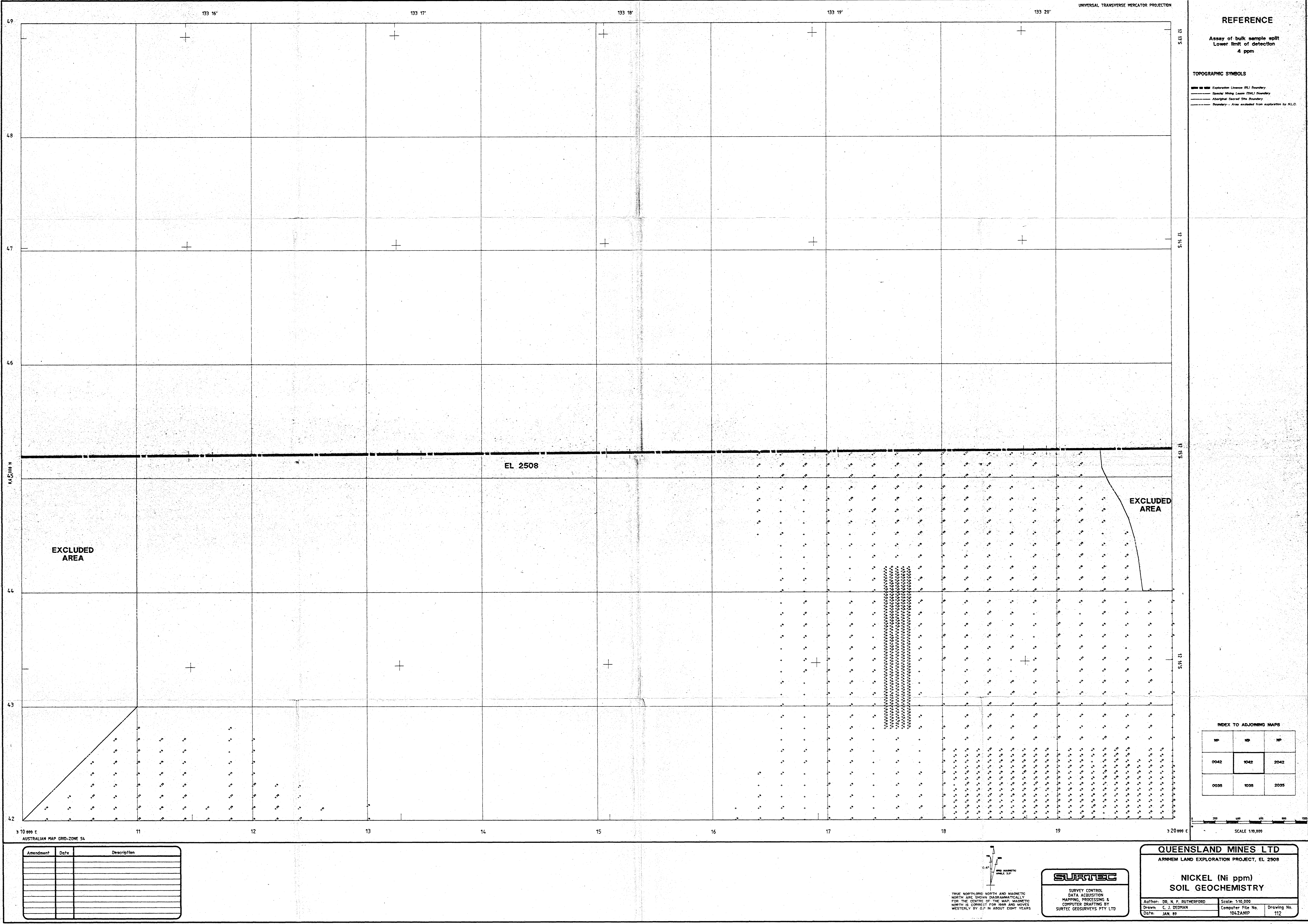
SCALE 1:10,000

Amendment	Date	Description

TRUE NORTH, MAGNETIC 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 ARMHEM LAND EXPLORATION PROJECT, EL 2508	
ZINC (Zn ppm) SOIL GEOCHEMISTRY	
Author: DR. N. F. RUTHERFORD	Scale: 1:10,000
Drawn: C. J. DEWMAN	Computer File No. 1042AZNP
Date: JAN 89	Drawing No. 111



REFERENCE

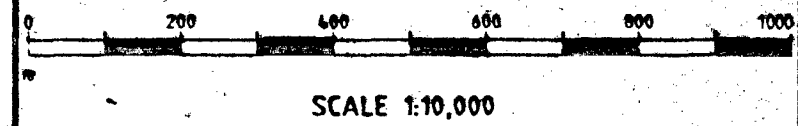
Assay of bulk sample split
Lower limit of detection
4 ppm

TOPOGRAPHIC SYMBOLS

- Exploration Licence (EL) Boundary
- Special Mining Lease (SML) Boundary
- Aboriginal Sacred Site Boundary
- Boundary - Area excluded from exploration by M.L.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 1989 AND MOVES WESTERLY BY 0.1° IN ABOUT EIGHT YEARS

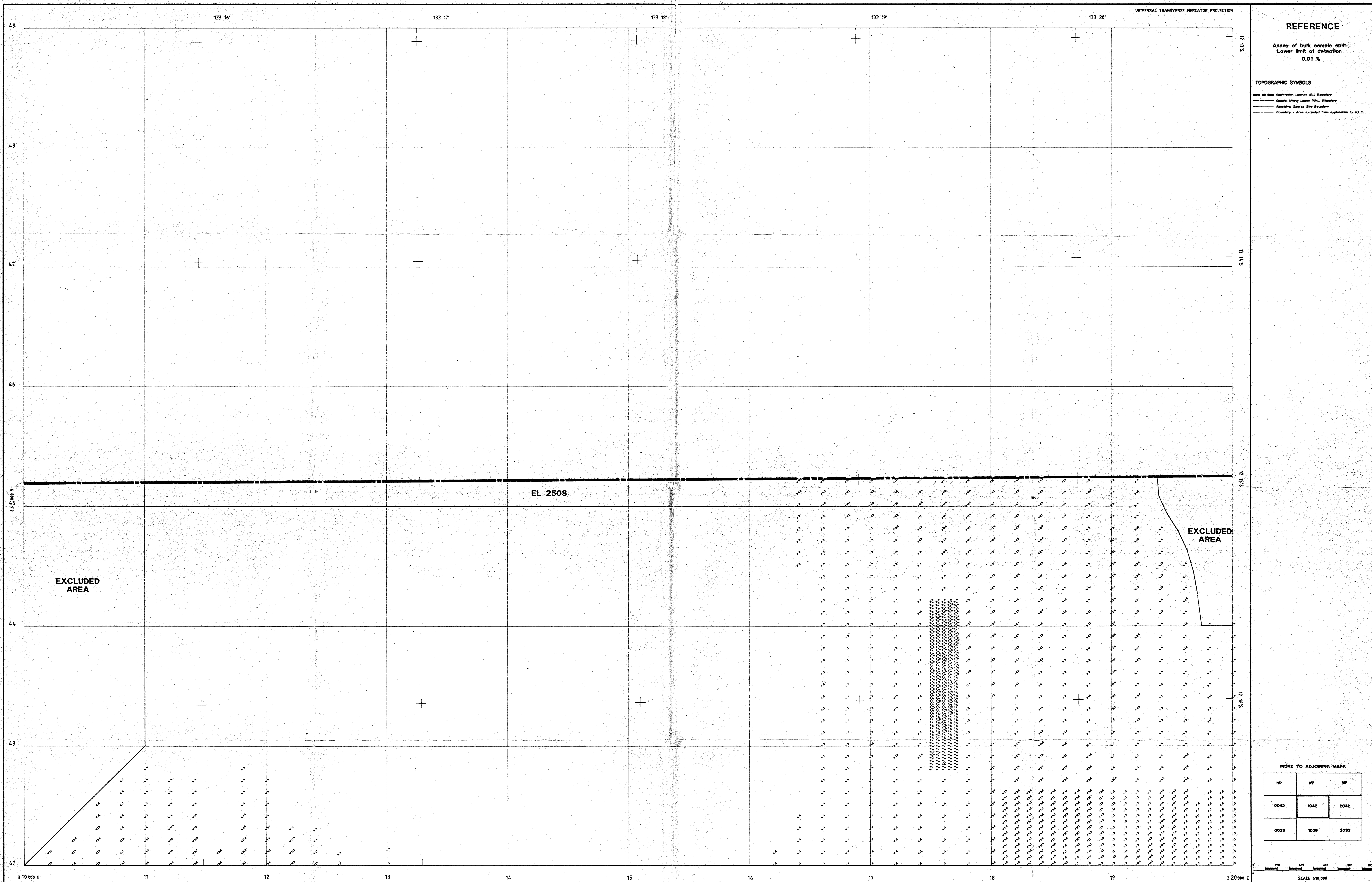
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**NICKEL (Ni ppm)
SOIL GEOCHEMISTRY**

Author: DR. N. F. RUTHERFORD	Scale: 1:10,000
Drawn: C. J. DEDMAN	Computer File No. 1042ANIP
Date: JAN. 89	Drawing No. 112



REFERENCE

Assay of bulk sample split
Lower limit of detection
0.01 %

TOPOGRAPHIC SYMBOLS

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

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Amendment	Date	Description

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

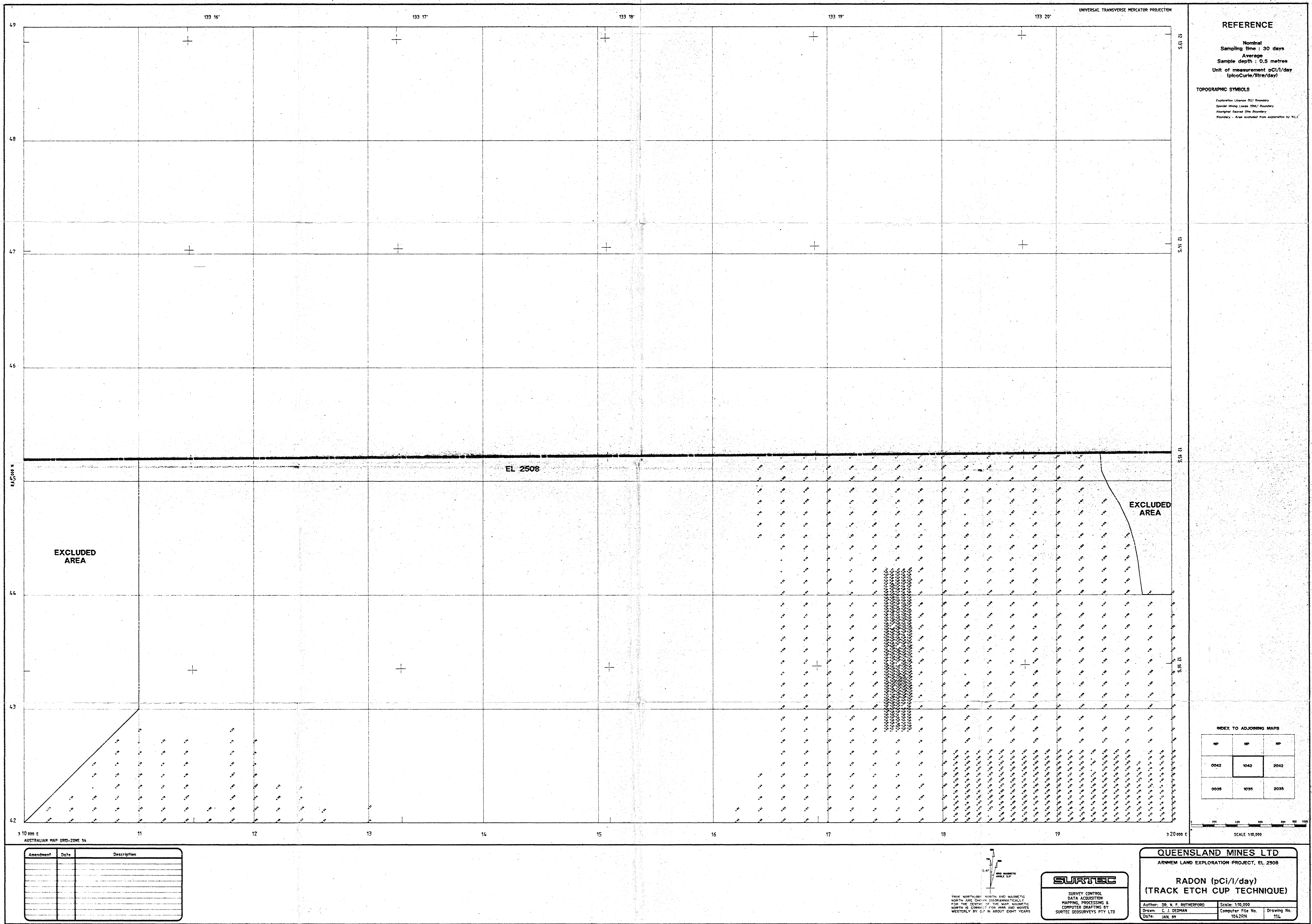
SURTEC
SURVEY CONTROL
DATA ACQUISITION
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COMPUTER DRAFTING BY
SURTEC GEOSURVEYS PTY LTD

QUEENSLAND MINES LTD
ARMHURST LAND EXPLORATION PROJECT, EL 2508

**IRON (Fe %)
SOIL GEOCHEMISTRY**

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

Scale: 1:10,000
Computer File No. 1042AFEP
Drawing No. 113



REFERENCE

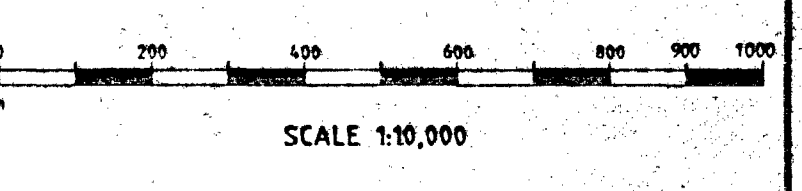
Nominal
Sampling time : 30 days
Average
Sample depth : 0.5 metres
Unit of measurement pCi/l/day
(picoCurie/litre/day)

TOPOGRAPHIC SYMBOLS

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

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Amendment	Date	Description

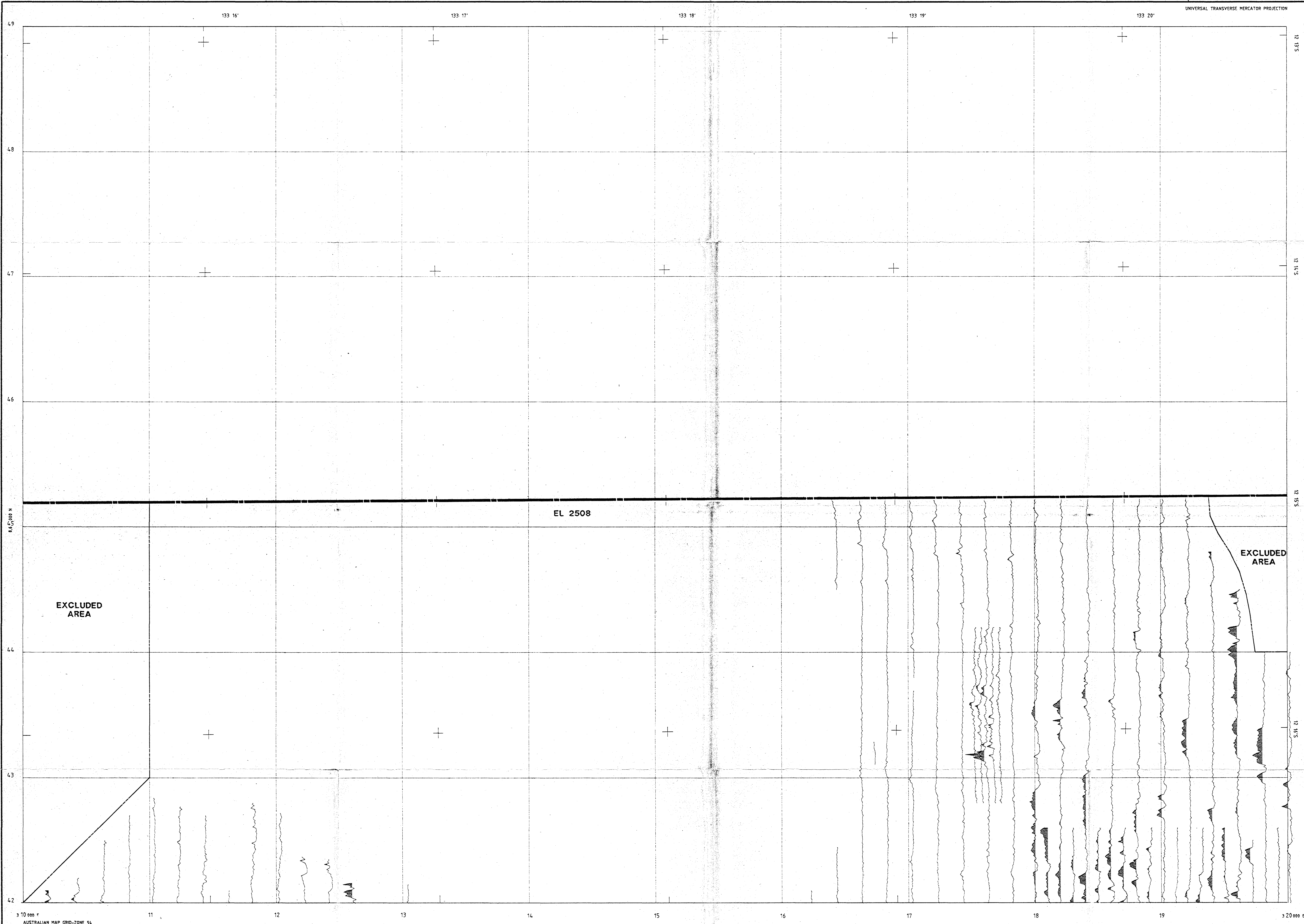
TRUE NORTH, NORTH AND MAGNETIC
NORTH ARE SHOWN DIAGONALLY
FOR THE CENTRE OF THE MAP. MAGNETIC
NORTH CORRECTS FOR AN ANOMALY
WESTERLY BY 0.1° IN ABOUT EIGHT YEARS

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QUEENSLAND MINES LTD
ARMHEM LAND EXPLORATION PROJECT, EL 2508

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

Author: DR. N. F. RUTHERFORD	Scale: 1:10,000
Drawn: C. J. DEDMAN	Computer File No. 1042RN
Date: JAN. 89	Drawing No. 114



REFERENCE

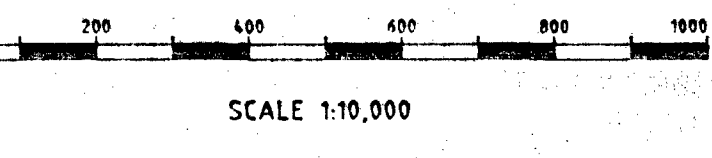
Instrument : Geometrics G-256
Sampling time 20 secs
Base level 15.0 cps
Vertical scale 30.0 cps/cm

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 4°N IN 1988 AND MOVES WESTWARD BY 0.4° N ABOUT EIGHT YEARS.

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QUEENSLAND MINES LTD
ARWHEM LAND EXPLORATION PROJECT, EL 2508

**TOTAL COUNT (cps)
RADIOMETRICS PROFILES**

Author: DR. N. E. RUTHERFORD	Scale: 1:10,000
Drawn: C. J. DEEMAN	Computer File No. 1042RACS
Date: JAN 89	Drawing No. 098

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

EL 2508

EXCLUDED AREA

EXCLUDED AREA

INDEX TO ADJOINING MAPS

NP	NP	NP
0042	1042	2042
0035	1035	2035

SCALE 1:10,000

Amendment	Date	Description

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

SURTEC

SURVEY CONTROL
DATA ACQUISITION
MAPPING, PROCESSING &
COMPUTER DRAFTING BY
SURTEC GEOSURVEYS PTY LTD

QUEENSLAND MINES LTD

ARNHEM LAND EXPLORATION PROJECT, EL 2508

URANIUM (e ppm)
RADIOMETRICS PROFILES

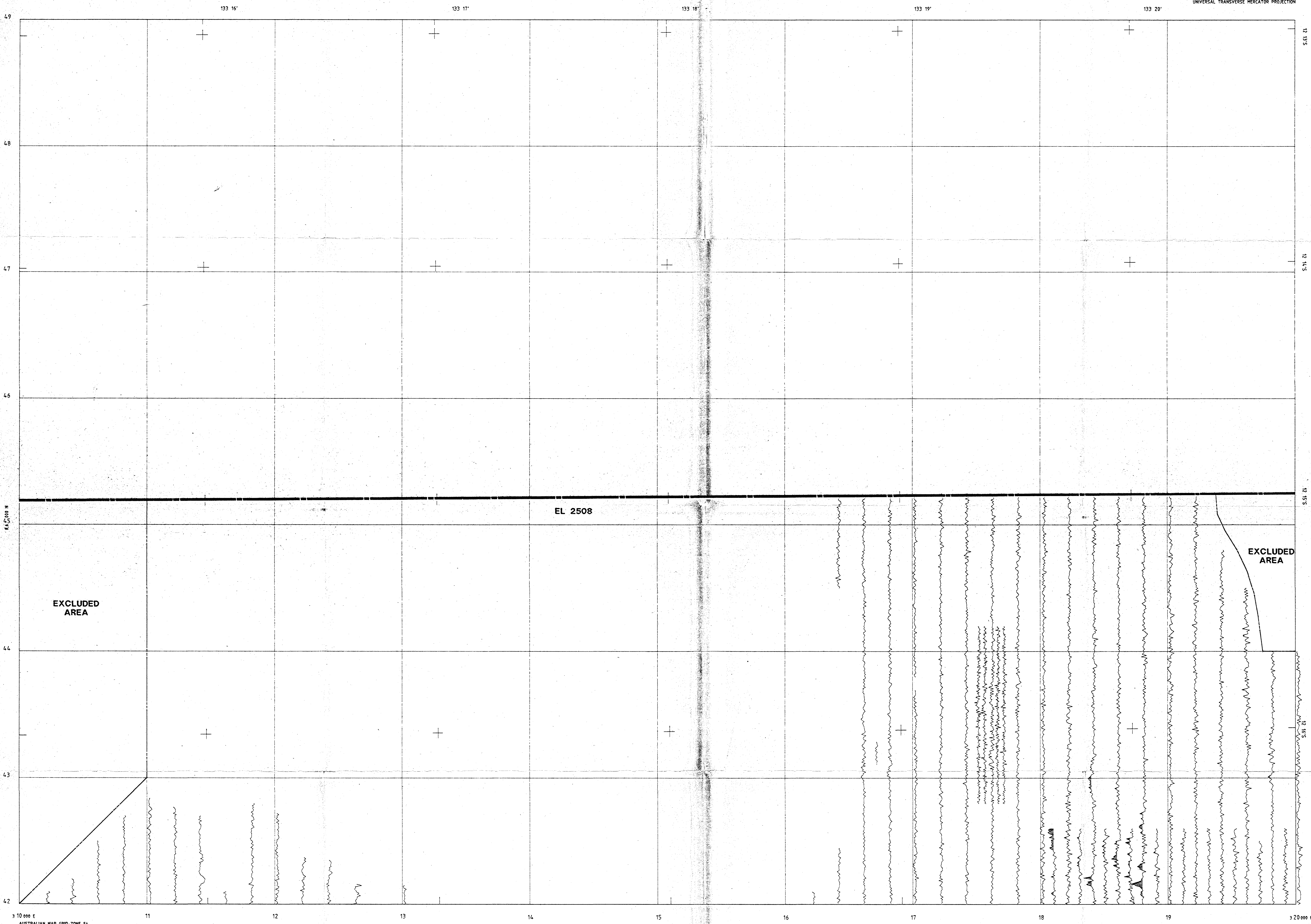
Author: DR. N. F. RUTHERFORD
Scale: 1:10,000
Drawn: C. J. DEDMAN
Computer File No. 1042RAUS
Date: JAN. 89
Drawing No. 099

REFERENCE

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

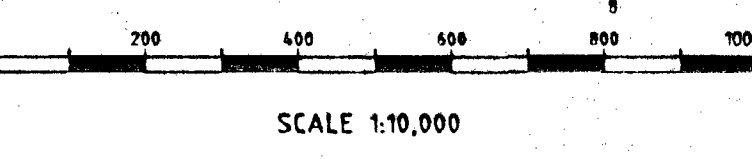
TOPOGRAPHIC SYMBOLS

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



INDEX TO ADJOINING MAPS

NP	NP	NP
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Amendment	Date	Description

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

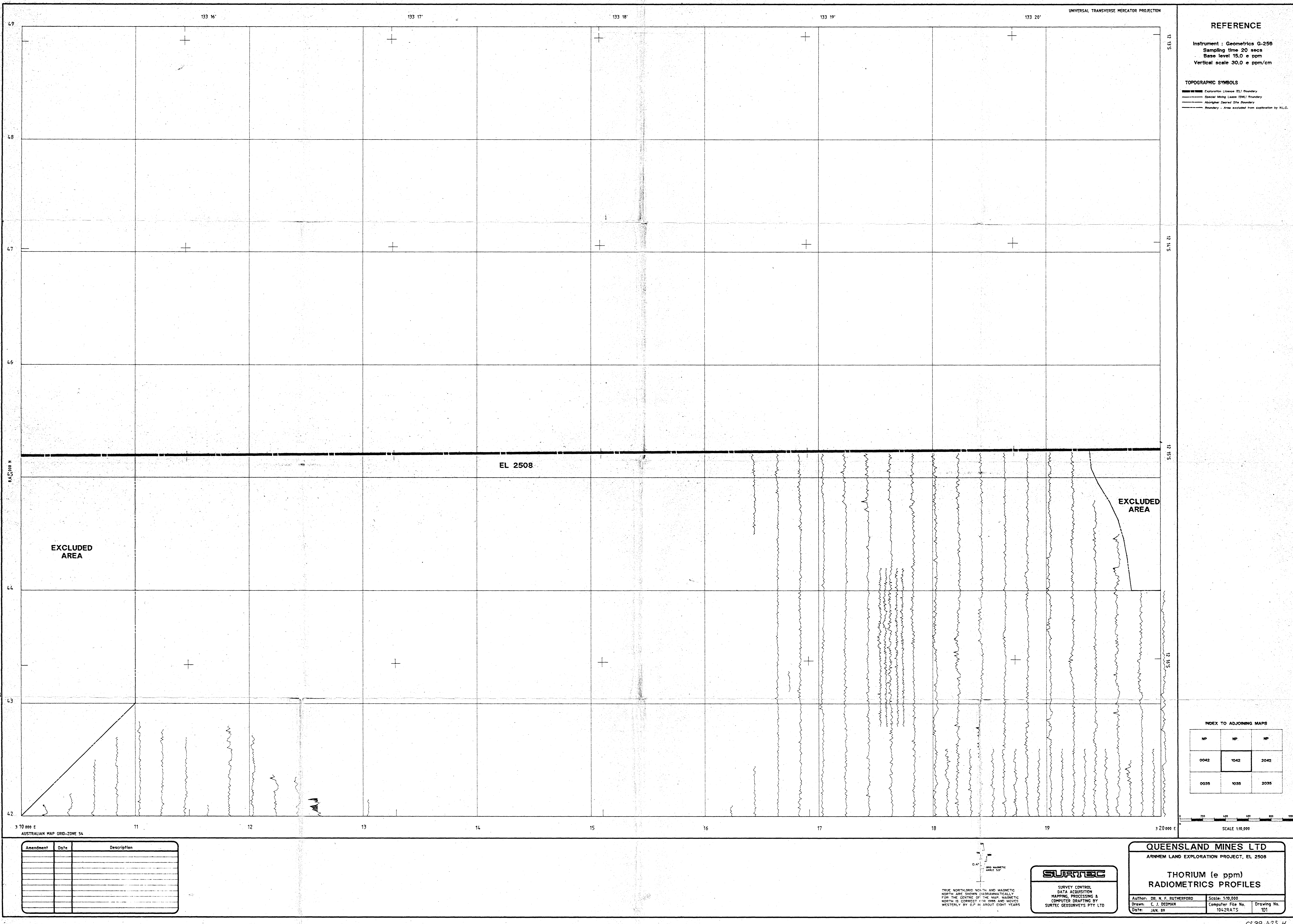
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QUEENSLAND MINES LTD
ARNHEM LAND EXPLORATION PROJECT, EL 2508

**POTASSIUM (e %)
RADIOMETRICS PROFILES**

Author: DR. N. F. RUTHERFORD	Scale: 1:10,000
Drawn: C. J. DEEDMAN	Computer File No. 1042RAKS
Date: JAN 89	Drawing No. 100



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

INDEX TO ADJOINING MAPS

NP	NP	NP
0042	1042	2042
0035	1035	2035

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 2.16 1988 AND MOVES WESTERLY BY 0.1° IN ABOUT EIGHT YEARS.

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DATA ACQUISITION
MAPPING, PROCESSING &
COMPUTER DRAFTING BY
SURTEC GEOSURVEYS PTY LTD

QUEENSLAND MINES LTD
ARNHEM LAND EXPLORATION PROJECT, EL 2508

**THORIUM (e ppm)
RADIOMETRICS PROFILES**

Author: DR. N. E. RUTHERFORD	Scale: 1:10,000	Drawing No. 101
Drawn: C. J. DEGMAN	Computer File No. 1042RAT5	
Date: JAN 89		