



GEOPEKO

A DIVISION OF PEKO-WALLSEND OPERATIONS LTD.

D81/24

KIMBERLEY DIAMONDS PROJECT

ANNUAL REPORT

ON

EXPLORATION LICENCE 2514

FOR THE PERIOD

3RD DECEMBER 1980 - 2ND DECEMBER 1981

OPEN FILE

BY

R. PERRING & S. TURLEY

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4. Sample Localities: Pinkerton (SD52-15E-GC0301-229)	1:100,000
5. Sample Localities: Victoria River (SD52-15B-GC0301-231)	1:100,000

INTRODUCTION

Exploration Licence 2514 covering 318.23 square miles was granted on the 3rd December, 1980 and this is the Annual Report for the 1st year of tenure.

This Licence is part of a regional exploration programme, mainly for diamonds, comprising Exploration Licences 2411, 2412, 2417, 2418, 2419, 2420, 2421, 2504, 2513, 2514, 2515, 2584 and 2585 which are the subject of a joint venture between Design and Construction Pty Limited, BP Australia Limited and Peko-Wallsend Operations Ltd, where Peko-Wallsend, through Geopeko, are the operators. The joint venture commenced on 1st May, 1981.

Because of recent successful exploration for kimberlites in Western Australia, the recognition of a potential kimberlite province in the Kimberleys, and possible influence of the Hall's Creek Fault on emplacement of the Argyle diamondiferous kimberlite, the Fitzmaurice Mobile Zone and Sturt Shelf in the vicinity of the Victoria River Fault must also be considered prospective for diamonds.

Potential for stratiform base metal deposits in the sediments of the Victoria River Basin was also recognised and samples were taken for geochemical analysis. Sample density was inadequate and was controlled by the sample density used in the diamond search.

LOCATION

Spirit Hills Station, Pastoral Lease 812; Bullo River Station, Pastoral Lease 811 on the Auvergne 1:250,000 sheet (SD52-15).

TARGET

Diamonds were the primary exploration target with stratiform base metal deposits a secondary target.

SUMMARY

Most of the rocks exposed in the area covered by the Auvergne-Port Keats 1:250,000 Geological Series sheets are Proterozoic. They form part of the Victoria River Basin and consist of sedimentary sequences of sandstone, siltstone, grit and conglomerate which developed on the stable Sturt Block and in the adjacent Fitzmaurice Mobile Zone.

Exploration work carried out included the following:-

- (i) Flying the area for colour photography and selection of photo features indicative of ultrabasic intrusion for field checking.
- (ii) Partial airborne magnetometer and radiometric surveys.
- (iii) Collection of 40kg, +0.6mm fraction samples from trap sites in streams.
- (iv) Collection of a -80 mesh sample for geochemical analysis.
- (v) Collection of bulk gravel samples.
- (vi) Heavy mineral separation and identification.

Results achieved to date are not encouraging.

GEOLOGY

Extracts from Auvergne and Port Keats 1:250,000 Geological Series - Explanatory Notes.

Most of the rocks exposed in the area covered by the Auvergne-Port Keats 1:250,000 sheets are Proterozoic. They form part of the Victoria River Basin and consist of sedimentary sequences which developed on the stable Sturt Block, and in the adjacent Fitzmaurice Mobile Zone.

The relative age of the Pre-Cambrian rocks on the Sturt Block and in the Fitzmaurice Mobile Zone is unknown; possibly the latter are older. The ages of the Palaeozoic sediments are accurately known from comprehensive palaeontological examinations.

The Fitzmaurice Group is a thick sequence of sandstone, siltstone, grit and minor conglomerate. The formations all contain some or all of these four rock types. The group crops out in a major north-northeast trending synclinerium (Figure 2). On the southeast limb of this structure the three lower formations total about 3000 metres. On the northwest limb, however, they are at least 12,000 metres thick. Most contacts between the constituent formations are conformable and gradational.

Sandstone, siltstone and dolomite of the Auvergne Group were laid down on stable block and are only mildly deformed. The Jasper Gorge Sandstone was laid down during a marine transgression over an erosional surface of Bullita Group rocks. Ripple marks in the Angalarri Siltstone indicates shallow water deposition. The Saddle Creek Formation is a transition between the Angalarri Siltstone and the Pinkerton Formation, which is a mature sandstone deposited in shallow water. The oolitic dolomites, infraformational conglomerates, stromatolitic growths, and holite casts in the Lloyd Creek Formation, Spencer Sandstone and Shoal Reach Formation indicate an active shallow marine environment with intermittent subaerial and lagoonal conditions.

GEOLOGY (cont.)

Three tectonic units are distinguished: the Fitzmaurice Mobile Zone, the Sturt Stable Block and the Bonaparte Gulf Basin (Figure 2).

The Fitzmaurice Mobile Zone consists of thick, moderately folded and intensely faulted sediments, the Fitzmaurice Group. Within this group, north of the Victoria River are windows of Lower Proterozoic and Archean rocks.

The Sturt Stable Block is a sequence of Adelaidean or Carpentarian sediments, the Auvergne Group, which were deposited on a stable cratonic area and are subsequently gently deformed.

The Bonaparte Gulf Basin is a deep structural and sedimentary basin containing Palaeozoic and Mesozoic sediments.

WORK DONE

Aerial Photography

The area delineated in Figure 3 was flown and photographed in colour by Quasco Pty Ltd. Prints were produced at a scale of 1:25,000. The photographs were studied in stereo with the objective of selecting photo features indicative of ultrabasic intrusions. The only features observed were of minor interest and easily explained upon field inspection. No ultrabasics were discovered.

Geological Mapping

No formal mapping programme was carried out other than brief field observations at sample sites.

Geophysical Surveys

Airborne magnetic and radiometric surveys were flown over the area delineated in Figure 3. Specifications are detailed on Table I. Analogs were produced for uranium, thorium and potassium counts along flight lines plus an analog of total counts. No significant anomalies were recorded.

Aeromagnetic data was contoured using an interval of 2 nanoTeslas at a scale of 1:50,000. Survey specifications are given in Table I, and contoured data shown on Map 1. No significant anomalies were recorded.

Stream Sediment Sampling

Gravel Samples:

1. Sample sites were selected in the office to give a sample density of one 40kg sample representing 10 km² and one 2,000kg sample representing 100 km².
2. The sample area was reached by helicopter and the streams were flown along to aid selection of the best possible trapsites for heavy minerals.

3. Gravel from the trapsites were sieved by hand to give the required fraction (0.6mm - 4mm) and weight of sample.
4. Samples were transported by helicopter to the base camp for processing.
5. Here the samples were sieved into three fractions; 0.6mm - 1.0mm, 1.0mm - 2.0mm, 2.0mm - 4.0mm.
6. Each fraction was put over a Plietz jig and the heavy mineral concentrates removed, dried and bagged.
7. These concentrates were despatched to Geopeko, Perth, for mineral identification by a trained observer.

Results:

Sample localities are given on Maps 2 to 5. The results of the heavy mineral identification are given in Appendix 1. Neither diamonds nor kimberlitic indicator minerals were observed.

Geochemical Samples:

Three hundred grams (300g) of sample were taken from each 40kg sample and despatched to Analabs, Perth, for analysis. The elements assayed for by X.R.F. were Cu, Pb, Zn, Fe, Co, Sn, W, Cr, Ni, Nb, Mg and the mineral barite. Only the -80 mesh fraction was used.

Results:

Details of all results are given in Appendix 2.

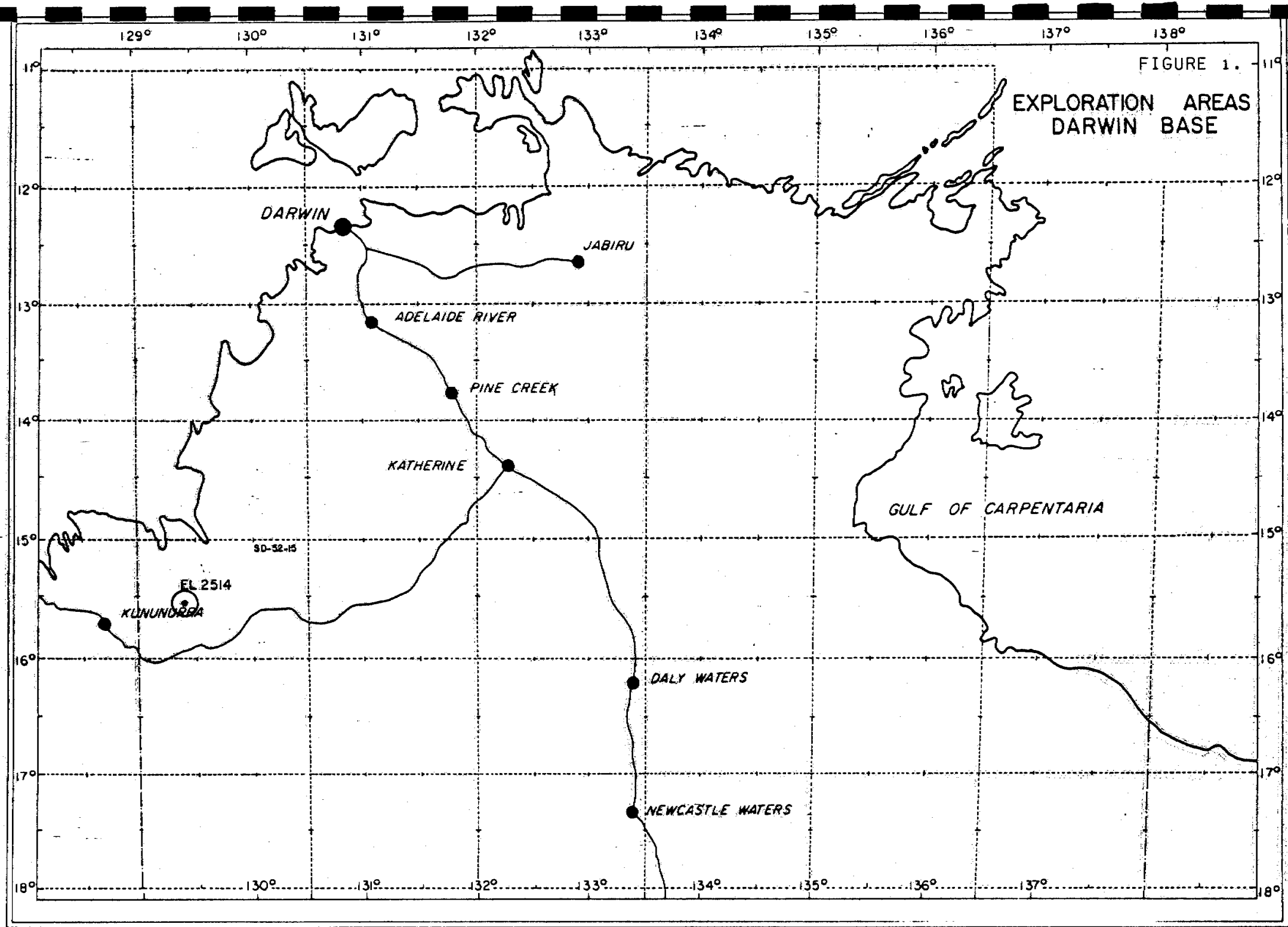
Four follow-up geochemical samples were collected from the vicinity of sample A0191. These samples were assayed for Mg, Nb, Sn and Ba and the results of these are also included in Appendix 2.

EXPENDITURE

As this licence is part of a regional programme, expenditure has been allocated according to its areal percentage.

Total allocated expenditure from 3rd December, 1980 to 30th November, 1981 was \$79,907.

E & R Noted *B*





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LOCATION DIAGRAM

133° 30'

LONDONDERRY SD 52-5		CAPE SCOTT SD 52-7	PINE CREEK SD 52-8	MT EVELYN SD 53-5
DRYSDALE SD 52-9	MONTA BARKS SD 52-10	MONT KEATS SD 52-11	FERGUSON RIVER SD 52-12	KATHERINE SD 53-9
ASHTON SD 52-13	CAMBERG GULF SD 52-14	AUTUMNE SD 52-15	DELAWARE SD 52-16	LARRIMAN SD 53-13
MT ELIZABETH SE 52-1	LYSABELL SE 52-2	WATERLOO SE 52-3	VICTORIA RIVER DOWNS SE 52-4	DAILY WATERS SE 53-1
LANSDOVNE SE 52-5	DIXON RANGE SE 52-6	LIMBUNTA SE 52-7	WAVE HILL SE 52-8	NEWCASTLE WATERS SE 53-5

ML 146
ML 150
ML 1

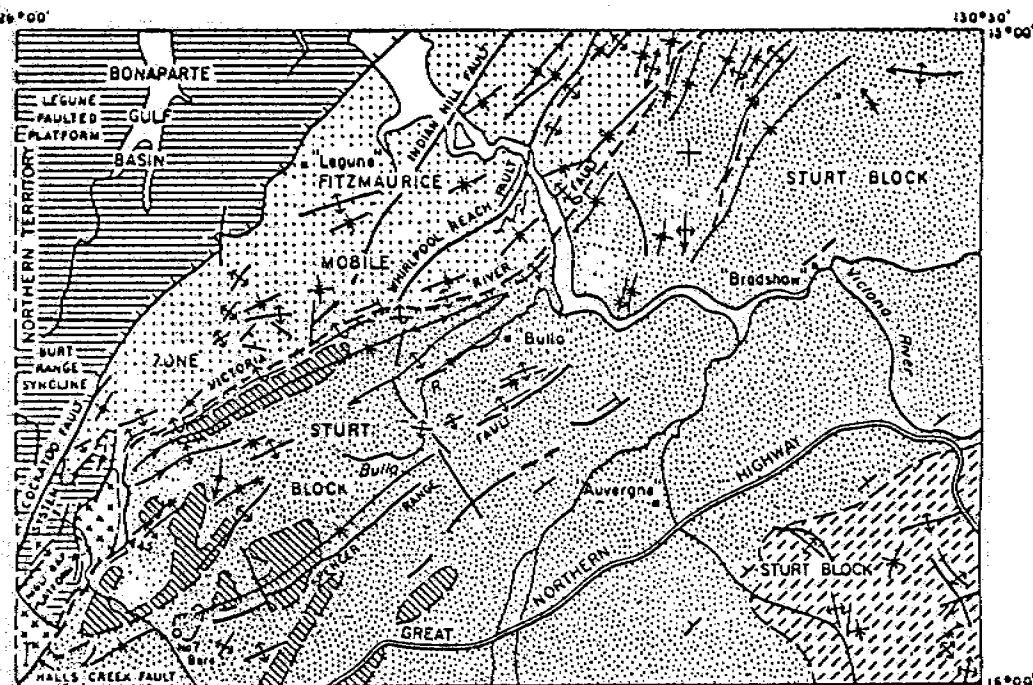
18

FIGURE 1.1
EXPLORATION LICENCE NO. 2514
TENEMENT LOCALITY PLAN

SCALE: 1:250,000

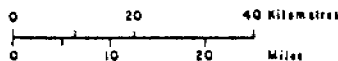
AREA: 318.23 SQUARE MILES
824.25 SQUARE KILOMETRES

AUVERGNE: Structural sketch map



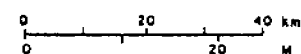
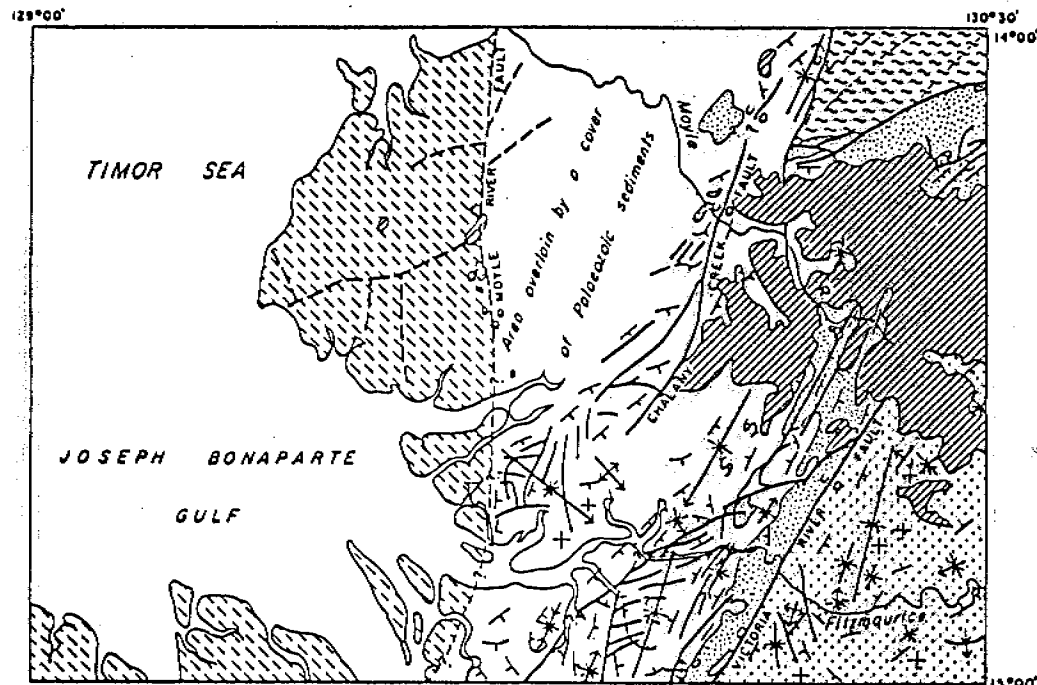
UPPER DEVONIAN TO UPPER CARBONIFEROUS	Bonaparte Gulf Basin sediments		BONAPARTE GULF BASIN
LOWER? CAMBRIAN	Antrim Plateau Volcanics		
ADELAIDEAN	Querdin Group		STURT BLOCK
ADELAIDEAN?	Auvergne Group and Bullo River Sandstone		
PROTEROZOIC	Bullo, Wollie and Limbunya Groups		FITZMAURICE MOBILE ZONE
CARPENTARIAN AND LOWER PROTEROZOIC OR ARCHAEOAN	Fitzmaurice Group		
	Lambie Complex and Halls Creek Group		

	Geological boundary		Shear zone
	Anticline		Strike and dip of strata
	Syncline		Horizontal strata
	Monocline		Overturned strata
	Fault		Vertical cleavage
	High angle reverse fault		Margin of Bonaparte Gulf Basin
	Thrust fault		



052/A15/31

PORT KEATS: Structural and tectonic sketch map



052/A11/3

	Monocline fold		Mullerian Beds
	Synclinal fold axis		Bonaparte Gulf Basin
	Anticline fold axis		Sturt Slope Block
	Fault		Fitzmaurice Mobile Zone
	Fault, position deduced from seismic studies		Pine Creek Graben
	Generalized strike and dip of bedding		Archaean Basement
	Horizontal bedding		

EXTRACTS FROM:

1:250,000 GEOLOGICAL SERIES-EXPLANATORY NOTES
PORT KEATS SHEET SD/52-11 INTERNATIONAL INDEX
AUVERGNE SHEET SD/52-15 INTERNATIONAL INDEX

FIGURE 2

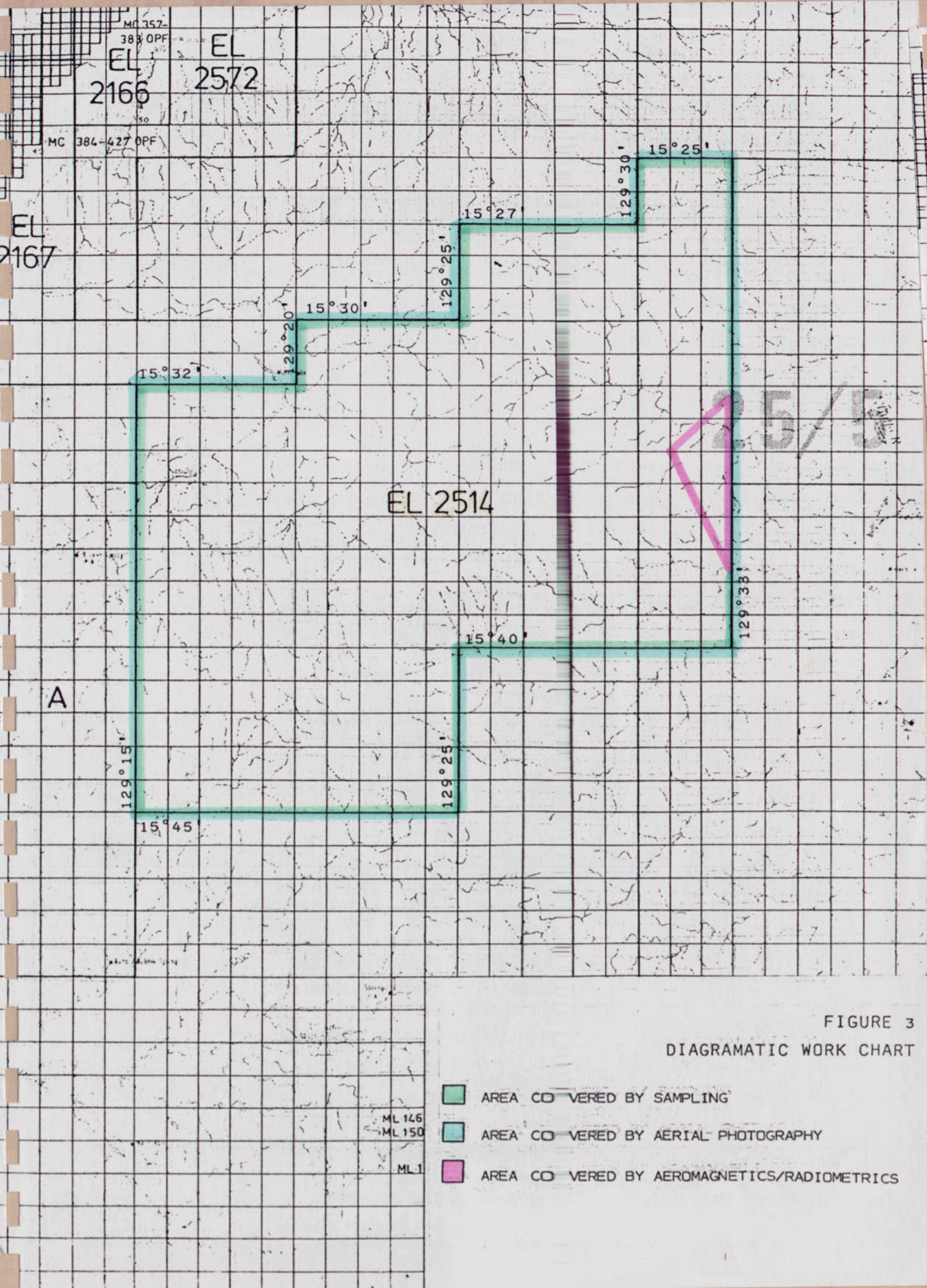


TABLE 1

SURVEY SPECIFICATIONS

VICTORIA RIVER AIRBORNE GEOPHYSICAL SURVEY TOTAL MAGNETIC INTENSITY

SURVEY SYSTEM

AIRCRAFT	NOMAD 228 VH-CPX
DOPPLER	DECCA 72
COMPASS	SPERRY GM9
TRACKING CAMERA	GEOCAM 7550
NAVIGATION COMPUTER	DECCA TANS 94470
MAGNETOMETER	VARIAN V85 Stinger Installation
ACQUISITION SYSTEM	SONOTEK IGSS1

RECORDING SPECIFICATION

FIDUCIAL	1
ACQUISITION TIME	0.0001 second
HEADING	1 minute
DOPPLER	3 cm
CLOCK TIME	1 second
ALTITUDE	0.1 metre
MAGNETOMETER	0.1 nanoTesla

FLIGHT SPECIFICATION

TRAVERSE LINE INTERVAL	300 metres
TRAVERSE LINE DIRECTION	50 degrees
TIE LINE INTERVAL	3000 metres
TIE LINE DIRECTION	140 degrees
TERRAIN CLEARANCE	100 metres
SPEED	50 metres/sec
ACQUISITION INTERVAL	0.8 second
NAVIGATION	Aerial photography Doppler assisted

DATA PROCESSING

REGIONAL FIELD	IGRF Model 1975 removed
GRID CELL SIZE	75 metres
2D LOW PASS FILTER	
Cut off wavelength	750 metres
Termination wavelength	1125 metres

TABLE 2

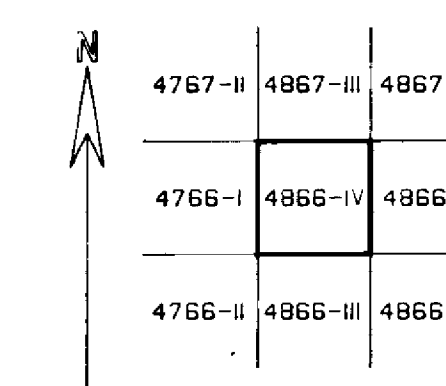
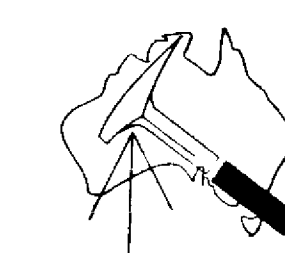
STREAM SEDIMENT SAMPLING

No. of Samples	Weight	Type	Fraction
99	40kg	gravel sample	0.6mm - 4mm
99	300g	geochemical sample	-80 mesh
nil	500kg	gravel sample	0.6mm - 4mm
2	1000kg	gravel sample	0.6mm - 4mm
1	1500kg	gravel sample	0.6mm - 4mm
3	2000kg	gravel sample	0.6mm - 4mm

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AUVERGNE SD52-15
PINKERTON 4866-IV

GEOPEKO



VICTORIA RIVER
AIRBORNE GEOPHYSICAL SURVEY
TOTAL MAGNETIC INTENSITY

SURVEY SYSTEM
AIRCRAFT: NOMAD 220 VH-CPX
DOPPLER: DECCA 72
COMPASS: SPERRY CM9
TRACKING CAMERA: GEODRM 7550
NAVIGATION COMPUTER: DECCA TRANS 34470
MAGNETOMETER: VARIAN V85
Stinger installation
ACQUISITION SYSTEM: SUNOTEK ICS91

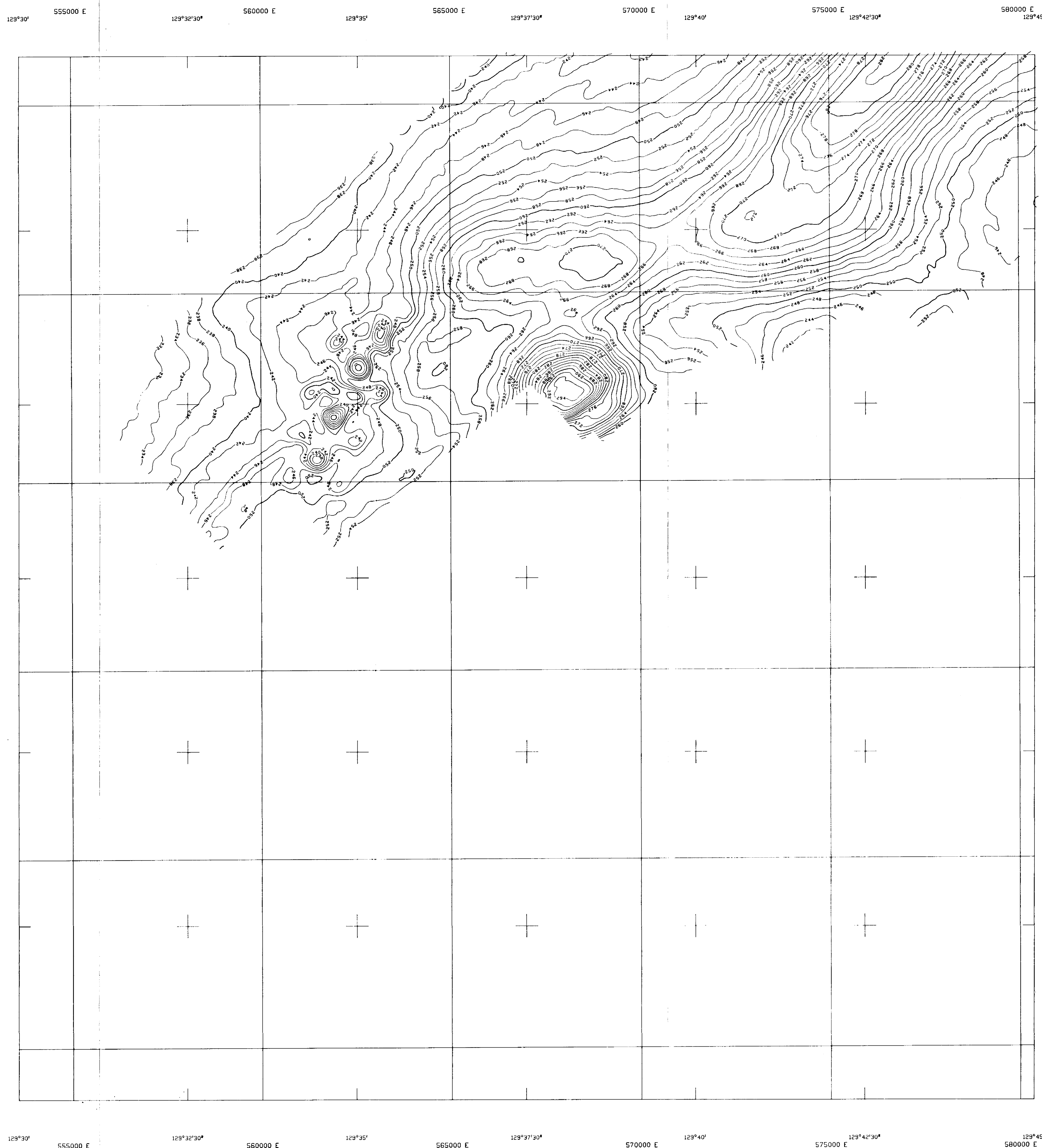
RECORDING SPECIFICATION
FIDUCIAL: 1
ACQUISITION TIME: 0.0001 second
HEADING: 1 minute
DOPPLER: 3 cm
CLOCK TIME: 1 second
ALTITUDE: 0.1 metre
MAGNETOMETER: 0.1 nanotesla

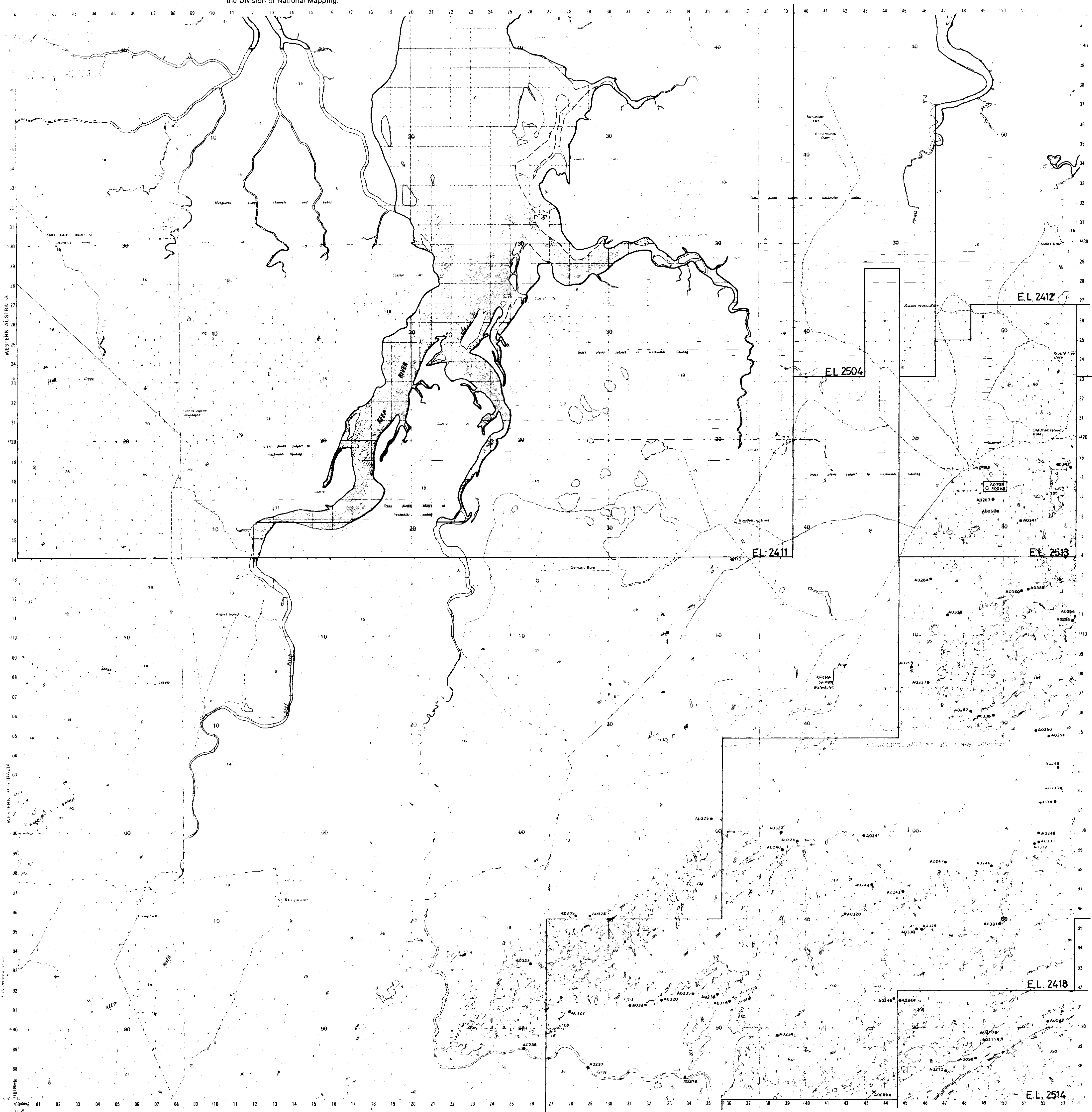
FLIGHT SPECIFICATION
TRAVERSE LINE INTERVAL: 300 metres
TRAVERSE LINE DIRECTION: 50 degrees
TIE LINE INTERVAL: 3000 metres
TIE LINE DIRECTION: 140 degrees
TERRAIN CLEARANCE: 100 metres
SPEED: 50 metres/sec
ACQUISITION INTERVAL: 0.8 second
NAVIGATION: Aerial photography
Doppler assisted

DATA PROCESSING
REDUCTION FIELD: IGRF Model 1975 removed
GRID CELL SIZE: 75 metres
2D LOW PASS FILTER: Cut off wavelength: 750 metres
Termination wavelength: 1125 metres

Survey and data processing by
AUSTREX INTERNATIONAL LTD
September 1991
Project management by
GEOPEKO GEOPHYSICAL GROUP

DRAWN	REVISION	DATE
DATE		
GEOPHYSICS		
APPROVED		
DRAWING No	REVISION No	





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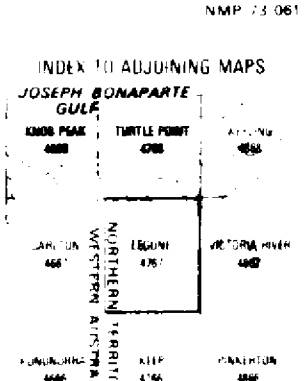
Drawn C.J.H.
Date 1/9/81
Geologists R.F./S.T.

DESIGN & CONSTRUCTION /
B.P. / PEKO WALLSEND
JOINT VENTURE

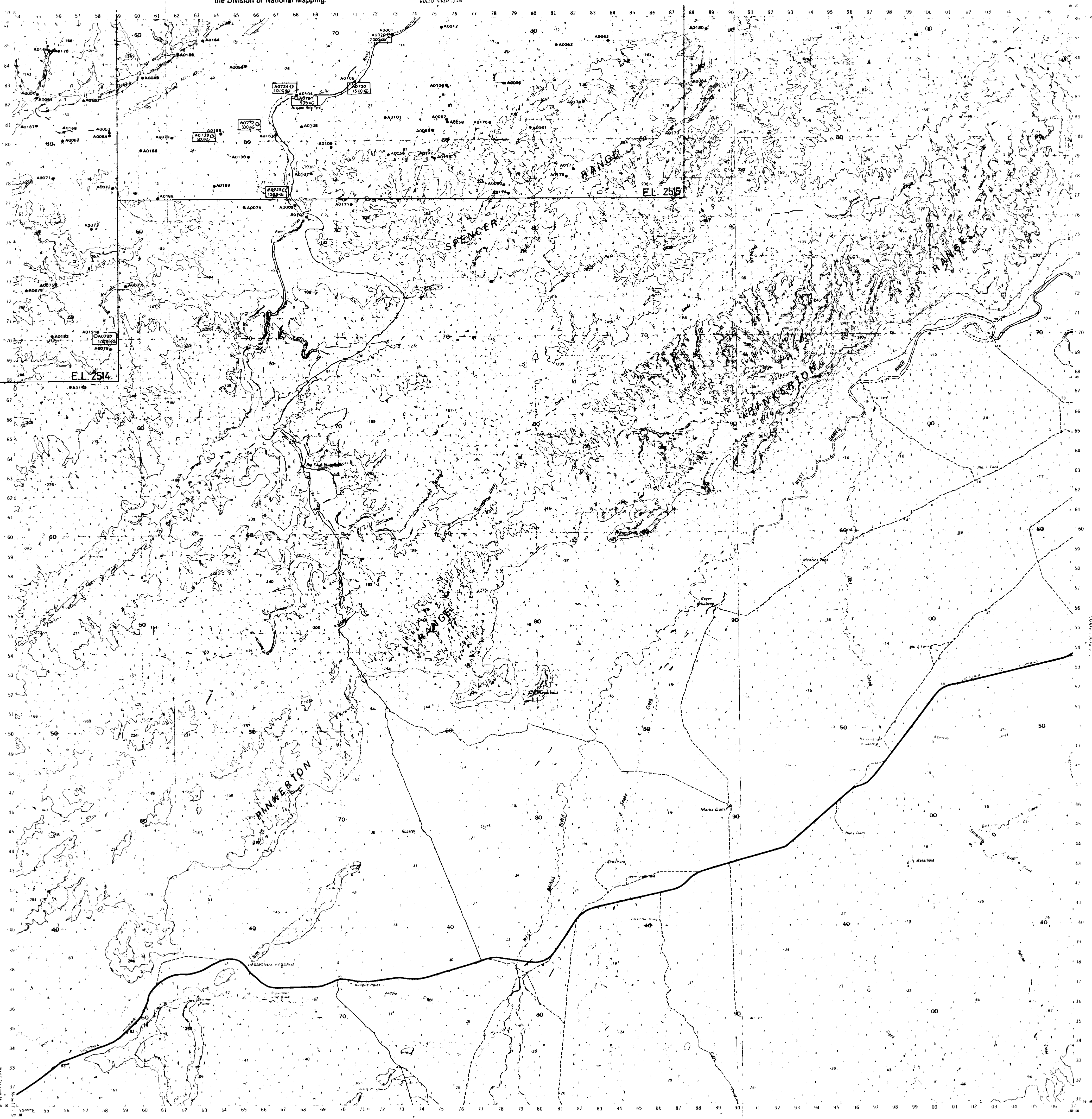
SCALE 1:100 000

BLACK NUMBERS ON A WHITE BACKGROUND ARE THE AUSTRALIAN MAP GRID COORDINATES.
GRID VALUES ARE SHOWN IN METRES AT THE SOUTH WEST CORNER OF THE MAP.
HORIZONTAL DATUM: AUSTRALIAN GEODETIC DATUM 1966
VERTICAL DATUM: AUSTRALIAN HEIGHT DATUM
TRANSVERSE MERCATOR PROJECTION
LENGTH INTERVAL: 10 METRES
ELEVATION INTERVAL: 10 METRES

LEGEND
GRAVEL SAMPLE AND 300GRAM
GEOCHEMICAL SAMPLE SITE, SAMPLE NUMBER
BULK SAMPLE SITE, SAMPLE NUMBER
SAMPLE WEIGHT
E.L. BOUNDARY



LEGUNE
SHEET 4767
NORTH-EASTERN TERRITORY
EDITION 1
CR82/112



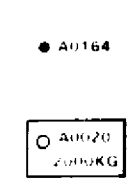
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JOINT VENTURE

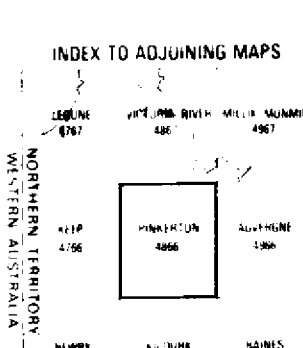
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Date: 1/9/81
Geologists: R.P./S.T.

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BLACK NUMBERED GRID LINES ARE 1 000 METRE INTERVALS OF THE AUSTRALIAN MAP GRID. GRID VALUES ARE SHOWN IN FULL ONLY AT THE GRID INTERSECTIONS OF THE MAP.
HORIZONTAL DATUM: AUSTRALIAN GEODETIC DATUM 1966
VERTICAL DATUM: AUSTRALIAN HEIGHT DATUM
TRANSVERSE MERCATOR PROJECTION
CONTOUR INTERVAL: 20 METRES
ELEVATIONS IN METRES

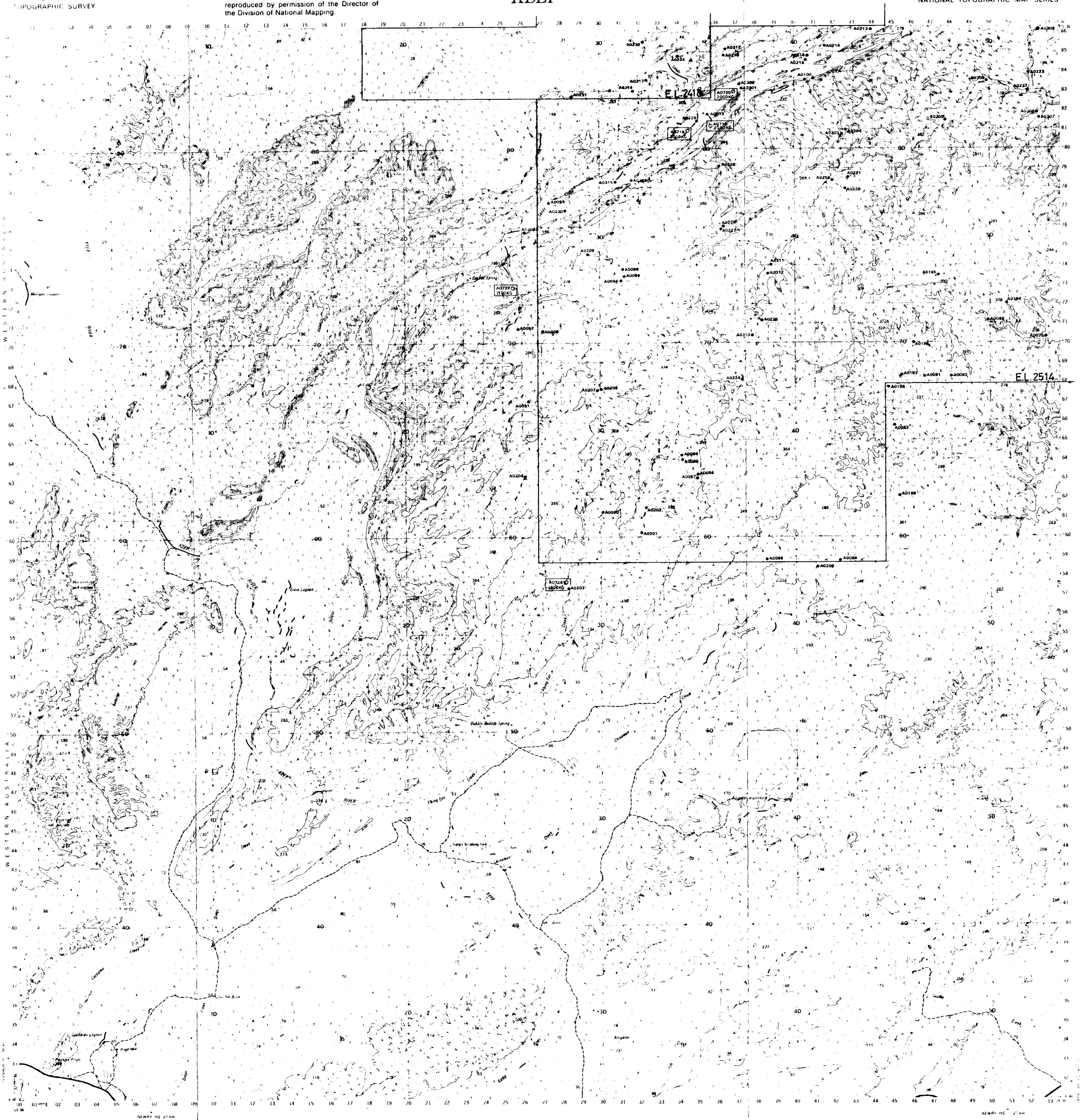


LEGEND
40KG GRAVEL SAMPLE AND 300GRAM
GEOCHEMICAL SAMPLE SITE, SAMPLE NUMBER
BULK SAMPLE SITE, SAMPLE NUMBER
SAMPLE WEIGHT
EL. BOUNDARY



PINKERTON
SHEET 4866
NORTHWEST TERRITORY
EDITION 1

CR82/112



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TO GIVE A UNIFORM REFERENCE TO THE NEAREST 100 METRES
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Project

Drawn C.J.H.
Date 1/3/81
Geologists R.F./ST

**DESIGN & CONSTRUCTION /
B.P. / PEKO WALLSEND
JOINT VENTURE**

SCALE 1:100 000

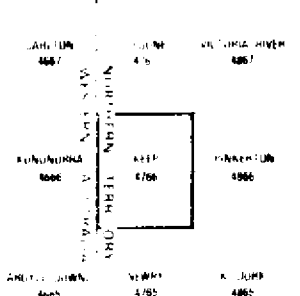
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VERTICAL DATUM: AUSTRALIAN NORTH DATUM
TRANSVERSE MERCATOR PROJECTION
CONTOUR INTERVAL 20 METRES
ELEVATIONS IN METRES

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BULK SAMPLE SITE, SAMPLE NUMBER
SAMPLE WEIGHT
E.L. BOUNDARY

LEGEND

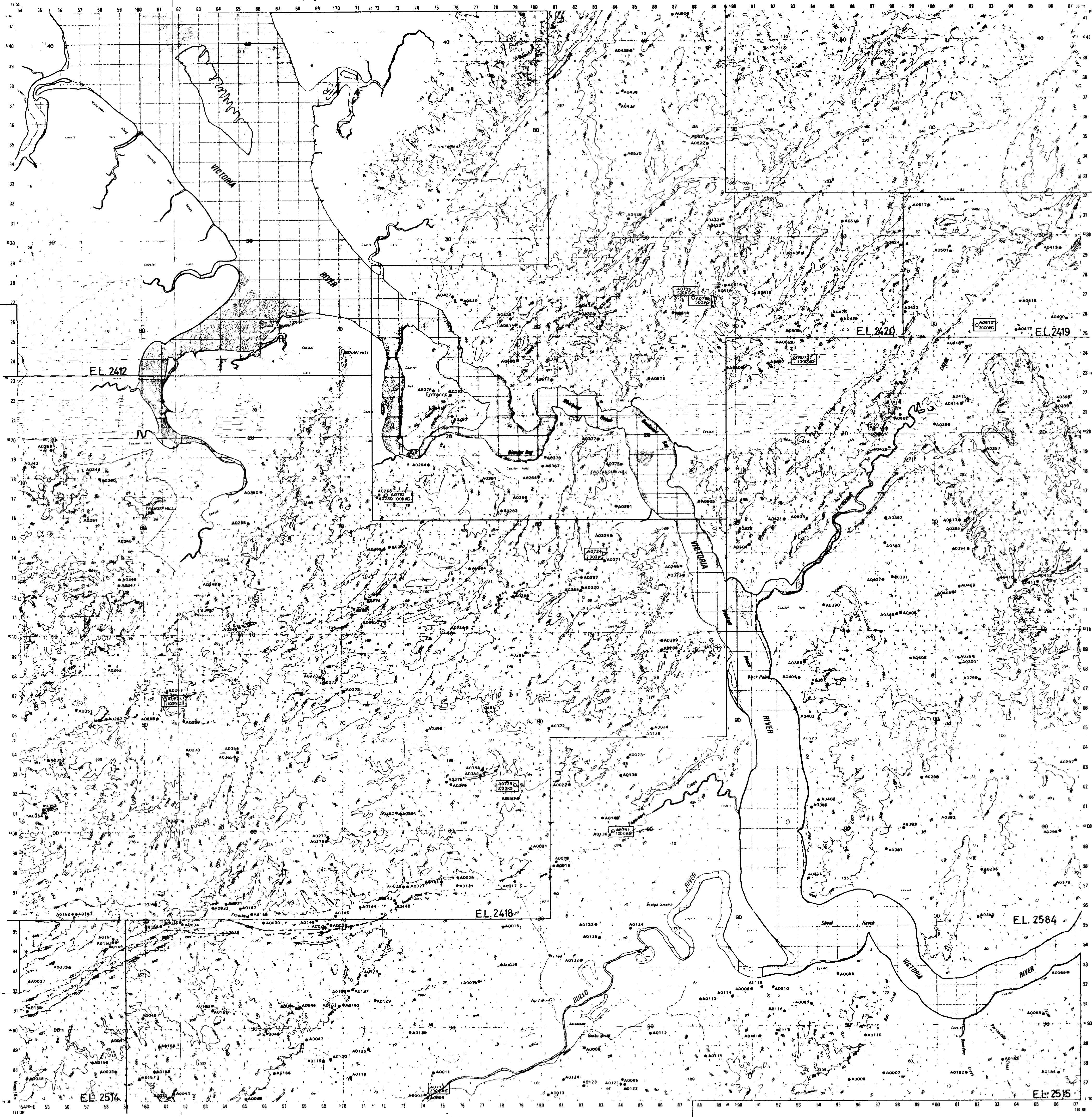
40KG
GRAVEL SAMPLE AND 300GRAM
GEOCHEMICAL SAMPLE SITE SAMPLE NUMBER
BULK SAMPLE SITE, SAMPLE NUMBER
SAMPLE WEIGHT
E.L. BOUNDARY

INDEX TO ADJOINING MAPS



KEEP
SHEET 4766
EDITION 1
NATIONAL TOPOGRAPHIC MAP SERIES

CR82/112



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MAP RELIABILITY: Topographic information shown on this map is correct to 1:50 000 scale classification. Roads are classified according to their intended function as part of the national road system.

GRID REFERENCE

- TO GIVE A UNIQUE REFERENCE ON THIS SHEET TO NEAREST 100 METRES
1. GIVE THE 1:100 000 MAP SHEET
 2. GIVE THE VERTICAL GRID LINE TO LEFT OF POINT AND ROAD LABELS
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 105. GIVE THE VERTICAL GRID LINE TO BOTTOM OF POINT
 106. GIVE THE HORIZONTAL GRID LINE TO RIGHT OF POINT
 107. GIVE THE VERTICAL GRID LINE TO LEFT OF POINT



GEOPEKO
Project

DESIGN & CONSTRUCTION /
B.P. / PEKO WALLSEND
JOINT VENTURE

Drawn: C.U.H.
Date: 1/3/81
Geologists: R.P./S.T.

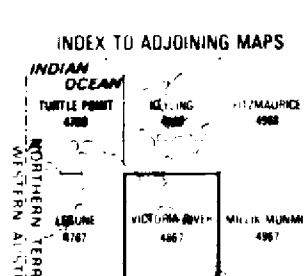
SCALE 1:100 000

BLACK NUMBERED GRID LINES ARE 1000 METRE INTERVALS OF THE AUSTRALIAN MAP GRID ZONE 52
GRID VALUES ARE SHOWN IN FULL ONLY AT THE SOUTH WEST CORNER OF THE MAP
HORIZONTAL DATUM: AUSTRALIAN GEODETIC DATUM 1966
VERTICAL DATUM: AUSTRALIAN HEIGHT DATUM
TRANSVERSE MERCATOR PROJECTION
CONTOUR INTERVAL 20 METRES
ELEVATIONS IN METRES

- Built up area: National route marker
Principal road and highway: Cutting
Secondary road: Embankment
Minor road: Road bridge
vehicular track
Gate: Cattle grid
Railway multiple track: Station: Railway bridge
Railway single track: Railway tunnel
light railway or tramway
Power transmission line
- Fence: Levee or bank
Mud: Windmill: Yield Quarry
Building: Church: Run: Dive in theatre
Trig station: Bench mark: Spot elevation
Contour with value: Depression contour
Forest: dense: medium: scattered
Scrub: dense: medium: scattered
Tropical: rainforest: Pine plantation
Orchard: plantation or vineyard: Mangrove
Windbreak
- Lake: perennial: Stream: perennial
Lake: intermittent: Stream: intermittent
Lake: mainly dry: Stream: mainly dry
Swamp: perennial: intermittent
Land subject to inundation: Rice field
Bore or well: Spring: Tank or small dam
Breakwater: Pier: Wharf
Wreck: exposed: Lighthouse
Rock: bare or washed: Foreshore flat: Sand
Reef: Rock ridge

LEGEND

GRAVEL SAMPLE AND 300GRAM
GEOCHEMICAL SAMPLE SITE, SAMPLE NUMBER
BULK SAMPLE SITE, SAMPLE NUMBER
SAMPLE WEIGHT
E.L. BOUNDARY



VICTORIA RIVER
SHEET 4867
NORTHERN TERRITORY
EDITION 1

CR82/112