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ANNUAL REPORT

FOR

EXPLORATION LICENCE 1354

NAPPERBY

NORTHERN TERRITORY

covering the period

2-11-1976 - 1-11-1977

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G.C.



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## INTRODUCTION

Exploration Licence 1354 was approved on the 2nd November, 1976 and application for renewal was made on the 27th September, 1977. The area held is 334.67 square miles. This is the first annual report and covers the period from the 2nd November, 1976 to the 1st November, 1977.

## LOCATION

Approximately 170km northwest of Alice Springs and south of the Stewart Bluff Range on the Napperby and Hermannsburg 1:250,000 sheets.

## SUMMARY

The earlier part of the year was taken up mainly with research and the compilation of existing data from the B.M.R. Canberra and the regional evaluation by our project and consultant geologists. During the second half of the year, an airborne spectrometric survey was carried out followed by a shallow auger drilling programme and the evaluation of areas of Carnotite mineralization in calcrete found by CRA in 1972-73.

This Exploration Licence is explored in conjunction with Exploration Licence No. 1353.

## GEOLOGY

Peneplean of Tertiary and Quaternary salt lake sediments overlying Proterozoic granites of the Arunta Block. Calcrete type uranium mineralization occurs as carnotite in the area. Basement is shallow and in general, calcareous sand and loams overlies red-brown iron-rich clays and sands. It is the near surface calcareous sandy clays that contain potential for mineralization.

## INVESTIGATIONS AND RESULTS

### Airborne Geophysics

The entire Exploration Licence was covered by an airborne spectrometric survey conducted by UAL's geophysicist L. Duus. This involved 1232km of flight lines at an altitude of 100m. Fifteen anomalies were recorded, most of which are on or close to salt lake/sand contacts and are shown on map 1.

A detailed report on this survey by L. Duus accompanies this report.

### Ground Geophysics

All anomalies found by the airborne survey were located on the ground and tested with a SRAT scintillometer. These anomalies were also hand auger drilled and probed using a McPhar TV5 downhole logger. Locations of these holes are shown on map 2 and the results are shown on table 1. The best SRAT reading was at anomaly 23/1 with a count of 400 cps and shown on map 1.

### Auger Drilling

A total of sixteen auger holes were drilled to an average depth of 2m to test the anomalies found in the airborne survey. Water and sediment samples were taken for assay and each hole was probed with a McPhar downhole logger. The location of these holes is shown on map 2 and the results on table 1. All results of this work are not yet to hand and will be reported on in the next quarterly report.

### Pit Sampling

Two small pits were dug east of Wirrbrandt Rock and showed encouraging results. (see table 1). Uranium mineralization was visible as carnotite in calcareous clays and values in the pits up to 1.0m deep were greater than 120 ppm  $U_3O_8$ . Pit one (200 cps on the surface) had the highest value of 250 ppm  $U_3O_8$  while Pit two (750 cps on the surface) gave 520 ppm  $U_3O_8$ . From surface indications, this area appears to be the most prospective.

### Water Sampling

Although the majority of the salt lake channels have been sampled, the only results available from this Exploration Licence are from Queens Bore and New Well with 19 ppb and 18 ppb respectively. (see table 2).

### PROPOSED PROGRAMME FOR 2ND YEAR OF TENURE

1. Gridding of area of interest, approximately 12km of theodolite baseline and 100km of offset lines (50m stns).
2. Scintillometer survey on this grid, formulating a contour map of SRAT readings taken every 50m.
3. Grading of access roads for drilling programme.
4. Approximately 2250m of twin tube drilling (150 holes up to 15m deep) on a grid of 300 x 400m.

The estimated minimum expenditure for this programme is \$10,000.

RENEWAL

Application for the renewal of Exploration Licence No. 1353 was made on the 27th September, 1977 and approval was given on the 13th December, 1977.

PERSONNEL

Exploration Manager .... Dr. D.O. Zimmerman  
Chief Geologist ..... Dr. K.W. Vogel  
Project Geologist ..... Mr. J. Santul  
Geophysicist ..... Mr. L.G. Duus  
Field Assistant ..... Mr. G. Shrimp

INSTRUMENTS

1 SRAT scintillometer No. 1514  
1 McPhar TV5 Downhole Logger

VEHICLES AND EQUIPMENT

1 Toyota LWB No. XNT 436

STATEMENT OF EXPENDITURE COVERING

2ND NOVEMBER 1976 TO 1ST NOVEMBER 1977

Salaries and Wages .....	\$ 6,063.55
Drilling Contractor .....	Nil
Field operating costs including consumables, rents, vehicle operatings and repairs, airfares freight etc .....	\$ 7,644.50
Depreciation of vehicles and geophysical instru- ments, consultants fees, management and distri- bution of Head Office costs .....	\$ 2,035.98
	<hr/>
TOTAL	\$ <u>15,744.03</u>

TABLE 1 Analyses for Hand Auger and Pit Samples

Sample No.	Hand Auger Hole No. (or Pit No.)	Description	SRAT Readings		U <sub>3</sub> O <sub>8</sub> (ppm)	Th (ppm)	TV5 Readings (cpm)	Depth (m)
			Situ	Sample				
G5407	A1	Light brown soil	90	60	< 4	12		0.00-1.00
G5408	A1	Light Brown calc. soil	90	60	4	10		1.00-1.50
G5409	A2	Light Brown coil	150	60	12	12		0.0
G5419	A6	Dark Brown clay	110	60	26	24		0.4
G5420	A6	Light Brown clay	110	60	22	14		0.80-1.20
G5421	A6	Green/Brown gyps. sandstone	110	60	14	14		1.20-1.60
G5422	A7	Brown/Black clay	60	50	10	12		0.0
G5423	A7	Brown clay	60	60	75	12		1.00-1.50
G5424	A8	Brown clay	400	70	110	4		0.25
G5425	A8	Calcrete sand	400	250	1150	< 4		0.25-0.50
G5426	A9	Brown iron-rich sand	400	100	390	6		0.50-1.00
G5427	A9	Lime, calcrete sand	400	110	420	< 4		1.00-1.50
G5428	A9	Brown/green clay	400	80	110	12		1.50-2.00
G5429	A10	Calcrete clay	100	65	55	6		0.20-0.50
G5430	A10	Brown clay	100	70	10	12		0.50-1.00
G5431	A11	Calcrete sand (Coprocks Bore)	100	60	12	< 4		1.75
G5443	A11	Brown soil (Herbert, Coprocks)	150	90	8	14		0.0
G5444	A12	Brown soil (north Parry Well)	200	170	8	48		0.0
G5445	A12	Brown soil	200	70	4	18		2.0
G5446	A13	Dark brown loam (Napperby Ck Delta)	150	80	12	18		0.0
G5447	Pit 1	Calc. clay	200	110	240	< 4		0.00-0.50
G5448	Pit 1	Calcrete and sand	300	120	120	< 4		0.50-0.75
G5449	Pit 1	Sandy calcrete	500	120	250	< 4		0.75-1.00
G5450	Pit 1	Sandy calcrete	500	110	180	< 4		1.0
G5451	Pit 2	Calcrete and sand	750	170	520	< 4		0.0
G5452	Pit 2	Calcrete clay	400	110	140			0.7
G5456	A16	Green grey gyps. clay (with gyps xtals)	40	50	5	< 4	280	1.6
G5457	A17	Light brown/green gyps clayey sandstone	50	55	<< 4	4	400	1.4
G5458	A18	Dark brown/green clay	50	50	6	12	600	1.6
G5459	A19	Brown/green/grey gpys. clay	50	50	4	12	440	1.4

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TABLE 1 Continued

Sample No.	Hand Auger Hole No. (or Pit No.)	Description	SRAT Readings		U <sub>3</sub> O <sub>8</sub> (ppm)	Th (ppm)	TV5 Readings (cpm)	Depth (m)
			Situ	Sample				
G5460	A20	Green/brown clay	45	50	14	8	700	1.5
G5461	A21	Brown/grey/green clay	60	50	6	8	500	1.3
G5462	A22	Red brown clay with bands of kopi	50	50	< 4	6	460	1.3
G5463	A23	Red brown clay	70	50	16	12	500	1.3
G5464	A24	Red brown clay	70	55	10	12	800	1.3
G5465	A25	Gyps clay	55	55	4	16	---	1.2
G5468	A28	Green brown clay	70	55	8	16	760	1.3
G5469	A29	Light brown clay	80	60	16	14	1100	1.3
G5470	A30	Green/grey clay	45	55	10	8	640	1.3
G5476	A36	Red brown soil	180	50	18	10	7000	0.0
G5478	Pit 3	Gypsum crystals in kopi	300	60	30	4	---	0.0
G5479	Pit 3	Kopi clay and gyps	500	120	580	4	---	10-30cm
G5480	Pit 3	Brown clay with gypsum crystals	400	60	48	4	---	30-50cm
G5481	Pit 3	Selected gypsum with carnotite	700	220	1000	4	---	10-30cm
G5495	A47	Light brown/green clay	70		18	14	1200	1.3
G5496	A48	Brown clay	120		18	16	1800	0.8
G5497	A48	Brown clay	---		18	16	1200	0.5
G5498	A49	Red brown clay	75		34	16	1100	1.0
G5499	A50	Alternating bands red grey clay	70		14	16	920	1.0
G5500	A51	Organe brown clay	60		8	16	640	1.4
G5501	A52	Calcrete and clay	55		85	< 4	500	0.7
G5502	A53	Calcrete	70		55	< 4	----	0.0
G5503	A54	Calcrete	75		4	6	540	0.8
G5504	A55	Green clay	100		14	16	900	1.4
G5505	A56	Green brown clay	80		6	30	1000	1.5
G5506	A57	Red brown clay	120		10	12	700	1.4
G5507	A58	Red brown clay	125		16	18	900	1.0
G5508	A59	Light brown clay	90		6	16	880	1.3
G5509	A60	Dark brown clay	90		16	18	620	0.8
G5521	A72	Brown green clay	50		8	8	---	0.0

TABLE 2 Hydrogeochemistry of the Regional Wells and Bores

Sample No.	Well	U (ppb)	K (ppb)	V (ppb)	HCO <sub>3</sub> (ppm)	TDS (g/l)	pH
W2880	Desert Bore	10	33	13	285	2.24	6.5
W2881	No. 22 Bore	15	46	35	278	3.18	6.5
W2882	No. 21 Bore	< 5	17	18	851	1.35	6.5
W2883	No. 17 Bore	20	37	150	656	2.33	7.0
W2884	No. 19 Bore	11	52	15	349	3.54	7.0
W2885	No. 3 Bore	10	23	20	544	.98	6.5
W2886	New Bore (7)	< 5	23	< 5	176	.62	6.5
W2887	No. 20 Bore	5	25	19	403	.69	6.5
W2888	Queens Bore	19	92	55	427	4.13	6.5
W2889	New Well	18	136	40	488	5.48	7.0
W2890	Gift Bore	< 5	22	< 5	903	.75	6.0
W2891	Titra Well	5	47	30	547	2.31	6.5
W2892	Mt. Best Well.	75	77	25	564	2.03	6.5
W2894	Patty Well	11	19	30	339	.53	7.0
W2895	Supple Jack B.	11	53	< 5	249	1.61	6.0
W2896	N Rd. B & Soak	< 5	4	< 5	781	.20	6.0
W2898	Claypan Bore	50	53	18	351	3.74	6.5
W2899	Tilmouth Soak	5	9	11	445	.04	6.0
W2900	Tilmouth Well	40	30	7	478	.56	6.5
W2901	Sandy Bore	30	43	19	478	1.30	6.5
W2903	Dam in claypan	< 5	70	6	163	.82	6.5
W2907	Rinkebeena B	45	164	105	271	6.34	6.5
W2910	Yarragan Bore	12	51	35	193	3.08	6.0
W2911	No. 1 B (Ambula)	11	24	25	407	1.10	6.5
W2913	No. 3 Bore	< 5	24	17	303	.65	6.5

TABLE 3 Hydrogeochemistry of Hand Auger Holes

Sample No.	Auger Hole No.	SRAT Insitu (cps)	U (ppb)	K (ppm)	V (ppb)	HCO <sub>3</sub> (ppm)	TDS (g/l)	pH
W2878	A 7	60	< 5	3650	10	120	236.30	6.0
W2879	A10	60	60	570	250	481	12.64	6.5
W2914	A15	40	75	1170	60	171	54.40	6.0
W2915	A16	40	120	1700	170	220	79.54	6.0
W2916	A17	50	30	3250	25	100	155.00	6.0
W2917	A18	50	40	3680	7	149	174.30	6.0
W2918	A19	50	95	2580	17	205	157.50	6.0
W2919	A20	45	35	2360	25	166	173.30	6.0
W2920	A21	60	17	820	100	300	66.95	6.0
W2921	A22	50	16	1820	55	117	120.30	6.0
W2922	A23	70	140	3200	12	134	236.40	6.0
W2923	A24	70	15	2580	30	112	188.10	6.0
W2924	A25	55	25	1580	45	149	115.90	6.0
W2927	A28	60	< 5	2640	10	51	210.60	6.0
W2928	A28	70	< 5	3120	50	59	234.40	6.0
W2929	A30	80	< 5	1980	35	46	149.10	6.0
W2931	A32	80	< 5	2100	50	32	168.90	6.0
W2934	A35	50	5	1560	13	161	111.10	6.0
W2902	A 6	180	30	2780	25	122	198.80	6.0

TABLE 4 Analyses of Basement Granites

Sample No.	Location	Description	SRAT Readings		U <sub>3</sub> O <sub>8</sub> (ppm)	Th (ppm)
			Situ	Sample		
G5432	NW R. Rocks	Granite (porphyry feldspars)	800	100	75	55
G5433	NW R. Rocks	Granite	150	60	< 4	16
G5434	Rembrandt Rck.	Granite	300	65	8	65
G5435	Rembrandt Rck.	Granite	300	65	6	50
G5436	Wimbrandt Rck.	Granite	300	60	6	55
G5437	Wimbrandt Rck.	Granite	250	60	10	42
G5438	N Sandy Well	Granite	500	60	42	110
G5439	N Sandy Well	Granite	250	60	18	48
G5440	Wimbrandt	Granite	4000	300	90	1850
G5453	No. 1 B Peg	Granite gneiss	150	70	10	22
G5454	No. 3 B Peg	Granite gneiss	100	65	< 4	< 4

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APPENDIX 1

AIRBORNE SPECTROMETRIC

SURVEY - NAPPERBY

PROJECT 2S

by

Lindsay Duus

PERTH

July, 77

## 1. INTRODUCTION

A detailed fixed-wing spectrometric survey was conducted over the Napperby area (Project 2S) some 170km northwest of Alice Springs in late May 1977.

Previous geological exploration by CRAE had indicated low grade uranium mineralization within a possible calcrete channel in the vicinity of Wirrbrandt Rock within the area. This survey covered the entire internal drainage system in the area.

A total of 2,906 line kilometres was flown over EL's 1353, 1354, 1614 and along the margins of the Stuart Bluff Ranges immediately to the north of EL 1353 (Map 1). The survey was conducted from 19.5.77 to 23.5.77.

Several low to medium order anomalies were recorded within and immediately adjacent to the lake system and some are extended across adjacent flight lines.

## 2. TECHNICAL DETAILS

### 2.1 Instrumentation

Spectrometer - The spectrometer used was a Scintrex Gam-2, four channel, differential spectrometer coupled to a hired Scintrex, GDSA-64 temperature stabilised detector with four 6 x 4 inch crystals.

Altimeter - The altimeter used was a Bonzer TRN-70 radar altimeter with visual meter indication on the pilot's panel and analogue output to the recorder channel 2.

Recorder - The recorder used was an MFE four channel, heat pen recorder with a manually operated fiducial marker and counter. The instrument recorded the analogue data listed in the following table.

Table 1 - Recorder Analogue Readout

Channel Number	Analogue Reading	Energy Limits Etc.
1	Total Counts	0.3 - 3.0 MeV
2	Altitude	60' - 2000'
3	Uranium Counts	1.66 - 1.90 MeV
4	Thorium Counts	2.48 - 2.81 MeV

2.2 Aircraft

A high-wing Cessna 206 on charter from Skycharter Pty. Ltd. of Jandakot W.A. was used throughout the survey. The Cessna was ferried from Zanthus W.A. to Alice Springs N.T. and returned to Perth.

2.3 Navigation

Navigation was visual only, along pre-planned east-west flight lines drawn on a 1:80,000 photo scale laydown. Flight line start and finish points and intermediate recognisable ground features were assigned consecutive fiducial numbers which were marked on both the photo laydown and the recorder charts.

2.4 Survey Parameters

Flight line spacing : 800m  
 Survey altitude : 100m  
 Survey speed : 100 knots

The following table lists the flight statistics distributed between the various EL's.

EL NO	FLIGHT LINES		HOURS FLOWN		KM FLOWN USEABLE	DATES FLOWN
	FROM:	TO:	HRS	MIN		
1353	1	23	12	20	1316	19.5.77-22.5.77
1354	22	49	10	26	1232	22.5.77-23.5.77
1614	1	13	1	30	208	23.5.77
Edge of Stuart Bluff Range	1	2	1	00	150	22.5.77

## 2.5 Survey Base

The aircraft was based at the Alice Springs Aero Club where refuelling, servicing and battery recharging facilities were available.

## 2.6 Personnel

Pilot : P. Fraser; Skycharter Pty. Ltd.

Navigator/Operator : M. Macauley; Skycharter Pty. Ltd.

Data Editing and Reduction: L. Duus; Uranerz Australia Pty. Ltd.

Assistant : R. Botteril; Uranerz Australia Pty. Ltd.

## 3. PRESENTATION OF RESULTS

### 3.1 Flight Paths

The flight paths which were originally plotted on a photo laydown at a scale of 1:80,000 have been replotted onto a 1:100,000 scale blowup of the 1:250,000 topographic sheets Napperby F53-9 and Hermannsburg F53-13.

### 3.2 Radiometrics

Anomalous uranium responses have been plotted wherever they occur along the flight paths (see Map 2). The anomaly peak responses and half widths are indicated along with ratios of peak counts over local background counts for the total and uranium channels. No stripping or absolute background subtraction has been applied to the data presented.

## 4. RESULTS

A list of the anomalies detected is given in Table 3, "Anomaly Data Reductions". The anomalies are assigned an order of merit depending on the ratio  $U/Th$  and the relative uranium peak counts, i.e.  $U^2/Th$ . Where the thorium response is depressed below the local background the thorium response is taken as 1cps to make a meaningful ratio.



TABLE 3. ANOMALY DATA REDUCTIONS

Area or EL No.	Anomaly Number	Total Count		Uranium Count		Thorium Count		U <sup>2</sup> /Th	Order of Merit
		Peak/bg	Ratio	Peak/bg	Ratio	Peak/bg	Ratio		
1354	23/1	720/520	1.4	33/16	2.1	12/16	1.0	289.0	1
1354	24/1	830/480	1.7	26/16	2.2	15/13	1.2	200.0	2
1354	25/1	810/500	1.6	36/17	2.1	17/15	1.1	180.0	3
1354	29/1	800/500	1.6	28/17	1.6	13/13	1.0	121.0	4
1353	21/2	55-/490	1.1	25/15	1.6	10/14	1.0	100.0	5
1354	30/1	560/460	1.2	24/15	1.6	14/14	1.0	81.0	6
1353	4B/1	550/400	1.4	18/1	1.6	14/14	1.0	49.0	7
1353	5/1	740/600	1.2	23/16	1.4	21/21	1.0	49.0	7
1353	14/1	600/420	1.4	19/12	1.6	13/13	1.0	49.0	7
1354	27/2	660/540	1.2	23/16	1.4	16/16	1.0	49.0	7
1353	13/1	590/490	1.2	21/15	1.4	18/18	1.0	36.0	8
1353	15/1	520/400	1.3	18/12	1.5	12/12	1.0	36.0	8
1353	16/1	550/440	1.2	18/12	1.5	11/14	1.0	36.0	8
1354	24/2	570/500	1.1	22/16	1.4	12/12	1.0	36.0	8
1354	26/2	580/500	1.2	23/17	1.3	10/12	1.0	36.0	8
1354	27/3	560/470	1.2	21/15	1.4	12/12	1.0	36.0	8

Area or EL No.	Anomaly Number	Total Count Peak/bg	Ratio	Uranium Count Peak/bg	Ratio	Thorium Count Peak/bg	Ratio	U <sup>2</sup> /Th	Order of Merit
1353	17/1	610/430	1.4	22/12	1.8	18/15	1.2	33.0	9
1353	4B/2	540/410	1.3	15/10	1.5	15/15	1.0	25.0	10
1353	5/2	450/380	1.2	14/9	1.6	14/14	1.0	25.0	10
1353	18B/1 18A/2	560/400	1.4	23/13	1.8	16/12	1.3	25.0	10
1353	21/1	560/480	1.2	20/15	1.3	14/14	1.0	25.0	10
1353	19/1	510/380	1.3	19/11	1.7	16/13	1.2	21.6	11
1354	27/1	620/500	1.2	22/16	1.4	15/13	1.2	18.0	12
1353	11/1	640/320	2.0	18/8	2.3	16/10	1.6	17.0	13
1353	18B/2	770/500	1.5	33/18	1.8	30/16	1.9	16.5	14
1354	22/1	460/340	1.4	19/12	1.6	11/8	1.4	16.1	15
1354	25/2	610/480	1.3	23/16	1.4	16/13	1.2	16.1	15
1354	26/1	670/520	1.3	24/16	1.4	18/13	1.4	12.8	16
1353	18A/1	550/470	1.2	21/15	1.4	18/15	1.2	12.0	17
1354	25/3	620/480	1.3	22/16	1.4	16/13	1.2	12.0	17
1614	5N/1	810/700	1.2	27/22	1.2	27/24	1.1	8.5	18

In general the more continuous and stronger uranium anomalies are confined to the southern and western inlets of the lake system, and over white to light grey shaded patches inside the lake borders.

Dark grey toned colluvium(?) just outside the lake borders shows high thorium response typical of laterite detritus particularly between the lake and the Stuart Bluff Ranges and on the south west lake edges.

To the south of the lake and away from the lake border, responses in all channels were low except on the south east edge of EL 1354, where laterite remnants with high thorium response crop out. The dark grey toned islands within the lake system also have high thorium responses.

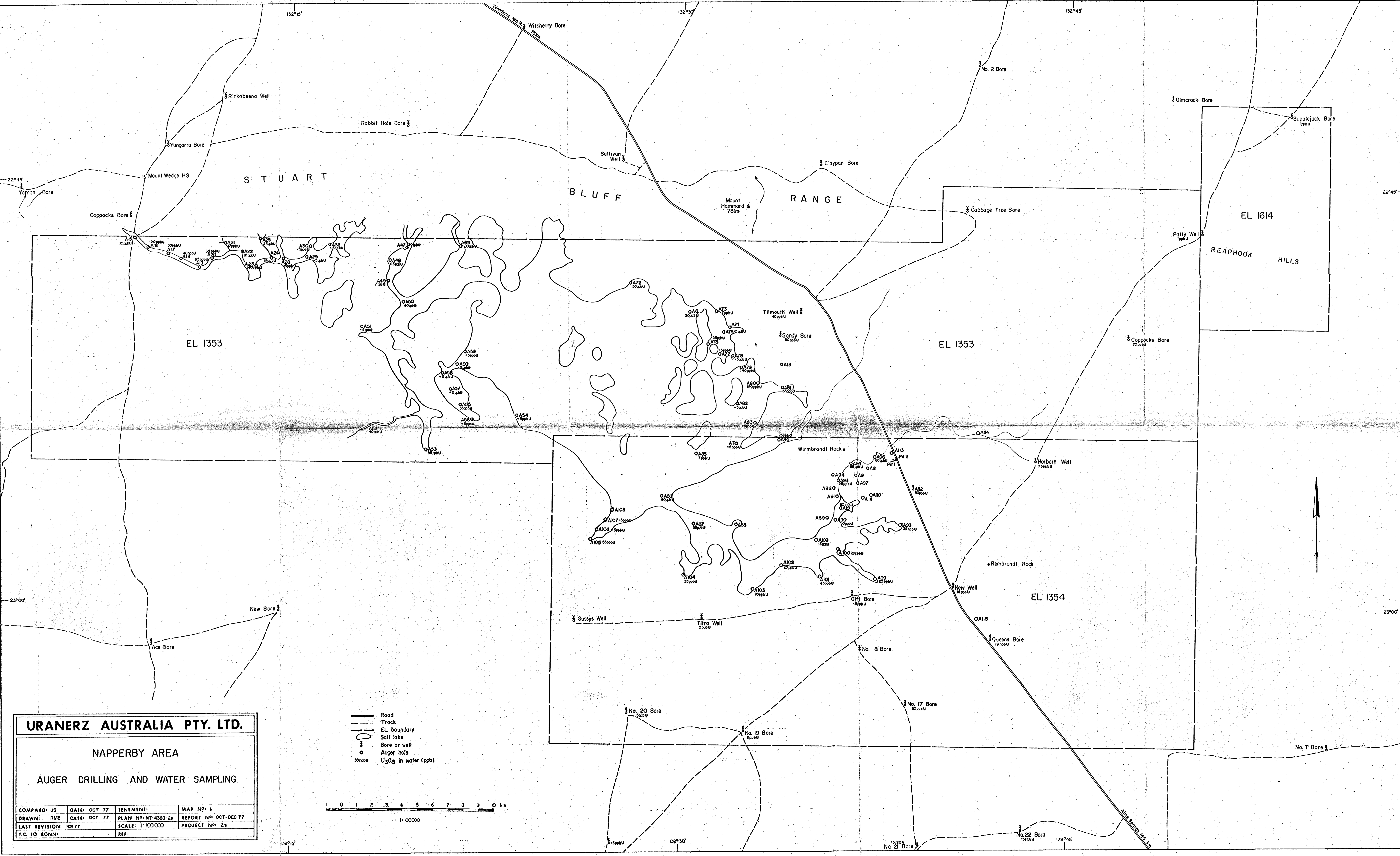
#### RECOMMENDATIONS

- (1) Investigate the anomalies listed in table 3 in consecutive order of merit. For those anomalies that are continuous between flight lines ground investigation should commence along the flight line showing the highest order of merit. i.e. Highest value of  $U^2/Th$ .
- (2) Record spectral readings using a Gam-1 spectrometer to differentiate between coincident and adjacent uranium-thorium anomalies. In many cases total counts alone may be misleading.
- (3) Submit assay samples for both uranium and thorium determinations.

#### Maps

Map 1 Locality Map shown EL's 1:1,000,000

Map 2 Flight Lines and anomalies, Napperby EL's 1:100,000



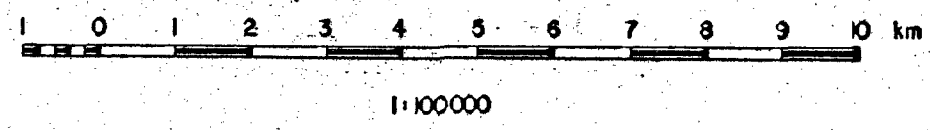
**URANERZ AUSTRALIA PTY. LTD.**

**NAPPERBY AREA**

**AUGER DRILLING AND WATER SAMPLING**

COMPILED: JS	DATE: OCT 77	TENEMENT:	MAP No: 1
DRAWN: RME	DATE: OCT 77	PLAN No: NT-4389-2s	REPORT No: OCT-DEC 77
LAST REVISION: NOV 77	SCALE: 1:100000	PROJECT No: 2s	
T.C. TO BONN:	REF:		

- Road
- - - Track
- - - EL boundary
- Salt lake
- ⊥ Bore or well
- Auger hole
- U<sub>3</sub>O<sub>8</sub> in water (ppb)







**URANERZ AUSTRALIA PTY. LTD.**

**NAPPERBY AREA**

AIRBORNE SPECTROMETER FLIGHT LINES  
ANOMALIES AND GROUND SRAT READINGS

COMPILED: DU	DATE: JULY 77	TENEMENT:	MAP No: 2
DRAWN: JO	DATE: JULY 77	PLAN No: NT-1332-28	REPORT No: OCT-DEC 77
LAST REVISION: NOV 77		SCALE: 1:100,000	PROJECT No: 28
T.C. TO BONN:		REF:	

- CRA mineralisation (1972) >100 ppm U<sub>3</sub>O<sub>8</sub>
- SRAT ground readings
- Flight line (reconnaissance)
- Flight line and number
- Fiducial point
- Anomaly half width and peak
- Order of merit
- Anomaly number
- Uranium counts
- Background
- Road
- Track
- EL boundary
- Salt lake
- Bore or well

