

URANERZ (AUSTRALIA) PTY. LTD.

OT/CBB 21.3.77

115

THIRD QUARTERLY REPORT ON EXPLORATION WORK CARRIED OUT ON EXPLORATION LICENCE NO. 845 COVERING THE PERIOD FROM DECEMBER 7TH, 1976 TO MARCH 6TH, 1977.

INTRODUCTION

Exploration licence No. 845 is situated 30km south of Alice Springs between latitudes $23^{\circ}54'S$ and $24^{\circ}00'S$ and longitudes $133^{\circ}43'E$ and $133^{\circ}55'E$. EL 845 was worked from a base in Alice Springs.

INVESTIGATIONS AND RESULTS

Percussion/Diamond Drilling

A total of 39 holes was drilled, amounting to 2918m, of which 77m were cored (Maps 2 and 3). Hole depth ranged from 9-154m. Drillhole spacing was 100m to 500m.

The drilling results are shown in Table 1. Tertiary sediments (limestone, gypsiferous clays, sandstone) were intersected in drillholes P54 - P62, P143 and P147. The position of these drillholes shows that the Tertiary sediments were deposited in a north-northeast trending channel.

The highest uranium mineralization was intersected in P146 (390ppm U_3O_8 over 2m), P155 (390ppm U_3O_8 over 2m) and P156 (540ppm U_3O_8 over 2m). These holes were drilled between P3 (800ppm U_3O_8 over 1m) and P8 (270ppm U_3O_8 over 1m), which were drilled in 1975.

Further drilling is proposed in this area.

Downhole Logging

38 drillholes, totalling 2520.40m, were logged for gamma ray, self potential and resistivity. 20 holes were anomalous, with scintillometer readings from 2 x bg to 50 x bg (Table 2).

Off-scale readings were found in P146, P148, P154 and P156, confirming the anomalous intersections encountered by SRAT readings on the drillhole cuttings. The off-scale peaks in cps will be converted to U_3O_8 in ppm.

Water Samples

Water samples were taken from 11 drillholes (Table 3). The samples will be assayed for U_3O_8 in ppb. The results are not yet available.

Track-Etch

Thirteen holes were charged with Track-Etch cups. These were suspended in each hole at 5m below surface level and will be retrieved after an exposure of one month (Table 4).

PROPOSED FUTURE PROGRAMME

- 1) Follow-up drilling P3 to P36B.
- 2) Water samples from follow-up drillholes.
- 3) Track-Etch in follow-up drillholes.

DRILLING RESULTS P38 - P62, P143,
P145 - P156

Table 1

<u>Hole No.</u> <u>Co-ord.</u>	<u>Total</u> <u>depth</u> <u>m</u>	<u>Colour</u> <u>change</u> <u>top/base</u> <u>m</u>	<u>Assayed</u> <u>interval</u> <u>from-to</u> <u>m</u>	<u>SRAT</u> <u>situ</u> <u>x bq</u>	<u>U₃O₈</u> <u>ppm</u>
P 38 9100W 1000S	120	34/102	84-86	1.5	14
P 39 9200W 1100S	110	74	84-86	2.5	32
P 40 9300W 1200W	90	54	54-56 60-62	2.5 2.5	70 6
P 41 9400W 1350S	47.10	20.3	20.4-20.8	1.5	165
P 42 9600W 1400S	52	16	16-18	2.0	50
P 43 9700W 1250S	62	38	-	-	-
P 44 9800W 1400S	68	20	-	-	-
P 45 10,000W 1,250S	100	57	-	-	-
P 46 10,100W 1,400S	76	43	22-24 42-44	2.5 3.0	16 85
P 47 10,200W 1,250S	90	66	62-64 64-66	3.0 2.5	28 26
P 48 10,300W 1,450S	90	34	-	-	-

Table 1 (cont'd)

Hole No. Co-ord.	Total depth m	Colour change top/base m	Assayed interval from-to m	SRAT situ x bg	U ₃ O ₈ ppm
P 49 10,400W 1,200S	110	84	74-76 78-80	4.0 3.0	80 50
P 50 10,600W 1,400S	70	41	-	-	-
P 51 10,700W 1,250S	110	76	36-38 38-40	3.0 2.5	36 38
P 52 10,800W 1,450S	60	30	-	-	-
P 53 10,900W 1,250S	120	82	76-78 78-80	4.0 3.0	80 55
P 54 2,000W 3,400S	100	-	-	-	-
P 55 1,600W 3,100S	46	- (Tertiary)	-	-	-
P 56 1,500W 2,600S	51	- (Tertiary)	-	-	-
P 57 1,100W 2,200S	48	- (Tertiary)	-	-	-
P 58 2,000W 2,900S	9	- (Tertiary)	-	-	-
P 59 1,986W 2,900S	10	- (Tertiary)	-	-	-

Table 1 (cont'd)

<u>Hole No.</u> <u>Co-ord.</u>	<u>Total</u> <u>depth</u> <u>m</u>	<u>Colour</u> <u>change</u> <u>top-base</u> <u>m</u>	<u>Assayed</u> <u>interval</u> <u>from-to</u> <u>m</u>	<u>SRAT</u> <u>situ</u> <u>x bq</u>	<u>U₃O₈</u> <u>ppm</u>
P 60 2,000W 3,100S	60	- (Tertiary)	-	-	-
P 61 2,000W 2,500S	50	- (Tertiary)	-	-	-
P 62 2,000W 2,000S	100	- (Tertiary/Undandita at 40m)	14-16	3.1	14

Table 1 (cont'd)

Hole No. Co-ord.	Total depth m	Colour change top-base m	Assayed interval from-to m	SRAT situ x bg	U ₃ O ₈ ppm
P143 1000W 1250S	26	(Tertiary)	-	-	-
P145 1500W 750S	44	-	-	-	-
P146 3680W 704N	154	124	122-124 124-126 126-128	10.5 3.0 2.5	390 20 14
P147 565W 2050S	40	(Tertiary)	-	-	-
P148 3810W 390N	108	80	78-80 80-82	2.- 3.5	8 10
P149 4000W 100N	66	36	38-40	4.0	75
P150 4200W 100N	88	58	54-56 56-58 58-60 60-62	2.0 1.5 1.5 1.5	34 20 6 8
P151 4400W 100S	60	32	30-32 32-34	4.0 2.0	50 12
P152 2900W 900N	124	90	-	-	-
P153 4670W 5S	108	84	-	-	-
P154 4800W 260S	64	34	24-26 26-28 28-30 30-32 32-34 34-36	2.0 2.5 1.5 2.5 1.5 1.5	75 26 6 44 6 6

Table 1 (cont'd)

<u>Hole No.</u> <u>Co-ord.</u>	<u>Total</u> <u>depth</u> <u>m</u>	<u>Colour</u> <u>change</u> <u>top-base</u> <u>m</u>	<u>Assayed</u> <u>interval</u> <u>from-to</u> <u>m</u>	<u>SRAT</u> <u>situ</u> <u>x bq</u>	<u>U₃O₈</u> <u>ppm</u>
P155	88	64	60-62	8.0	390
5200W			62-64	8.0	250
250S			64-66	2.5	46
			66-68	2.0	18
			68-70	2.0	16
P156	96	64	62-64	18.5	540
5550W			64-66	8.5	140
400S			66-68	1.5	14

DOWNHOLE LOGGING P38 - P62, P143,
P145 - P156

Table 2

Hole No.	Depth Drilled m	Depth Logged m	Anomaly x bg from-to m	Thickness ½-Height Re-run Peak m	U ₃ O ₈ assayed ppm from-to
P 38	120	61.5	-	-	
P 39	110	106.3	2.8 79.5-80.5	-	
P 40	90	87.0	4.5 51.9-52.9	-	70 (54-56)
			2.3 56.5-57.9	-	6 (60-62)
P 41	47.1	45.6	5.2 19.9-20.3	0.4	
			6.0 20.3-21.2	0.9	
P 42	52	48.9	2.9 15.2-16.4	-	
P 43	62	59.0	-	-	
P 44	68	63.0	-	-	
P 45	100	98.8	-	-	
P 46	76	73.5	6.5 22.3-23.5	-	16 (22-24)
			4.6 41.3-43.6	-	85 (42-44)
P 47	90	86.2	2.8 60.4-62.0	-	28 (62-64)
P 48	90	89.2	-	-	
P 49	110	109.0	4.2 74.7-75.6	0.9	80 (74-76)
			4.2 75.7-76.2	0.5	
			3.7 78.9-79.3	0.4	50 (78-80)
			3.0 80.2-80.6	0.4	
			4.6 81.6-82.1	0.5	
			5.0 82.4-83.0	0.6	
			3.8 83.8-84.5	0.7	

Table 2 (cont'd)

<u>Hole No.</u>	<u>Depth Drilled m</u>	<u>Depth Logged m</u>	<u>Anomaly x bg from-to m</u>	<u>Thickness ½-Height Re-run Peak m</u>	<u>U₃O₈ assayed ppm from-to</u>
P 50	70	68.2	2.1 40.5-41.7	-	
P 51	110	107.1	4.3 35.5-36.4		36
			2.8 37.0-38.4		38
			3.6 56.3-57.2		
P 52	60	58.6	-	-	
P 53	120	hole collapsed			
P 54	100	95.0	-	-	
P 55	46	45.7	-	-	
P 56	51	46.5	-	-	
P 57	48	37.1	-	-	
P 58	9	- (Tertiary)		-	
P 59	10	- (Tertiary)		-	
P 60	62	47.8	-	-	
P 61	50	45.0	-	-	
P 62	99.9	95.9	6.5 (Tertiary) 10.6-11.6		

Table 2 (cont'd)

Hole No. Co-ord.	Depth Drilled m	Depth Logged m	Anomaly x bg from-to m	Thickness ½-Height Re-run Peak (m)	U ₃ O ₈ assayed ppm from-to
P143 1000W 1250S	26	20.5	2.8 6.4-9.4	-	-
P145 1500W 750S	44	37.3	3.0 53.5-60.1	-	-
P146 3680W 705N	154	153.8	10.0 122.45-123.05 25.5 123.15-124.00	0.60 0.85	390 (122-124)
P147 565W 2050S	40	29.0	-	-	-
P148 3810W 390N	108	97.2	4.0 76.60-77.05 20.0 77.40-77.95	- 0.55	- 8 (78-80)
P149 4000W 100N	66	62.2	2.0 32.90-33.25 8.5 34.85-35.55 3.5 35.70-36.45	- -	75 (38-40)
P150 4200W 100N	88	86.2	4.5 54.95-55.25	-	34 (54-56)
P151 4400W 100S	60	56.9	4.0 0.45-1.3 7.5 29.7-30.5	-	- 50 (30-32)
P152 2900W 900N	124	55.8	-	-	-
P153 4670W 5S	108	105.3	-	-	-

Table 2 (cont'd)

Hole No. Co-ord.	Depth Drilled m	Depth Logged m	Assayed x bg from-to m	Thickness ½-Height Re-run Peak (m)	U ₃ O ₈ assayed ppm from-to
P154 4800W 260S	64	63.3	14.0 24.5-25.0 12.0 25.25-25.85	0.5 0.6	75 (24-26)
P155 5200W 250S	88	87.0	21.0 60.8-62.35 4.5 64.25-65.1	1.55	390 (60-62) 46 (64-66)
P156 5550W 400S	96	91.0	50.0 62.6-63.1 21.5 63.2-63.8	0.5	540 (62-64)

WATER SAMPLES P143, P145 - P156

Table 3

<u>Hole No.</u>	<u>Co-ord</u>	<u>Depth Drilled</u> <u>m</u>	<u>Sample depth</u> <u>m</u>	<u>ph</u>	<u>Temp</u> <u>°C</u>	<u>U₃O₈</u> <u>ppb</u>	<u>Assay</u> <u>from-to</u> <u>m</u>	<u>U₃O₈</u> <u>assay</u> <u>ppm</u>
P143	1000W/1250S	26	Dry					
P145	1500W/750S	44	Dry					
P146	3680/705N	154	80	6.0	27		122 - 124 124 - 126 126 - 128	390 20 14
P147	565W/2050S	40	Dry					
P148	3810W/390N	108	21	6.0	25.5		78 - 80 80 - 82	8 10
P149	4000W/100N	66	45	6.0	25.5		38 - 40	75
P150	4200W/100N	88	85	6.5	27		54 - 56 56 - 58 58 - 60 60 - 62	34 20 6 8
P151	4400W/100S	60	Dry					
P152	2900W/900N	124	5	6.0	25		-	-
P153	4670W/5S	108	23	6.0	26		-	-
P154	4800W/260S	64	5	6.0	25		24 - 26 26 - 28 28 - 30 30 - 32 32 - 34 34 - 36	75 26 6 44 6 6
P155	5200W/250S	88	26	6.0	26		60 - 62 62 - 64 64 - 66 66 - 68 68 - 70	390 250 46 18 16

Table 3 (cont'd)

<u>Hole No.</u>	<u>Co-ord</u>	<u>Depth Drilled m</u>	<u>Sample depth m</u>	<u>pH</u>	<u>Temp °C</u>	<u>U₃O₈ ppb</u>	<u>Assay from-to m</u>	<u>U₃O₈ assay ppm</u>
P156	5500W/400S	96	69	6.0	26		62 - 64	540
							64 - 66	140
							66 - 68	14

TRACK-ETCH P143, P145 - P156

Table 4

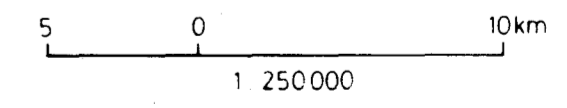
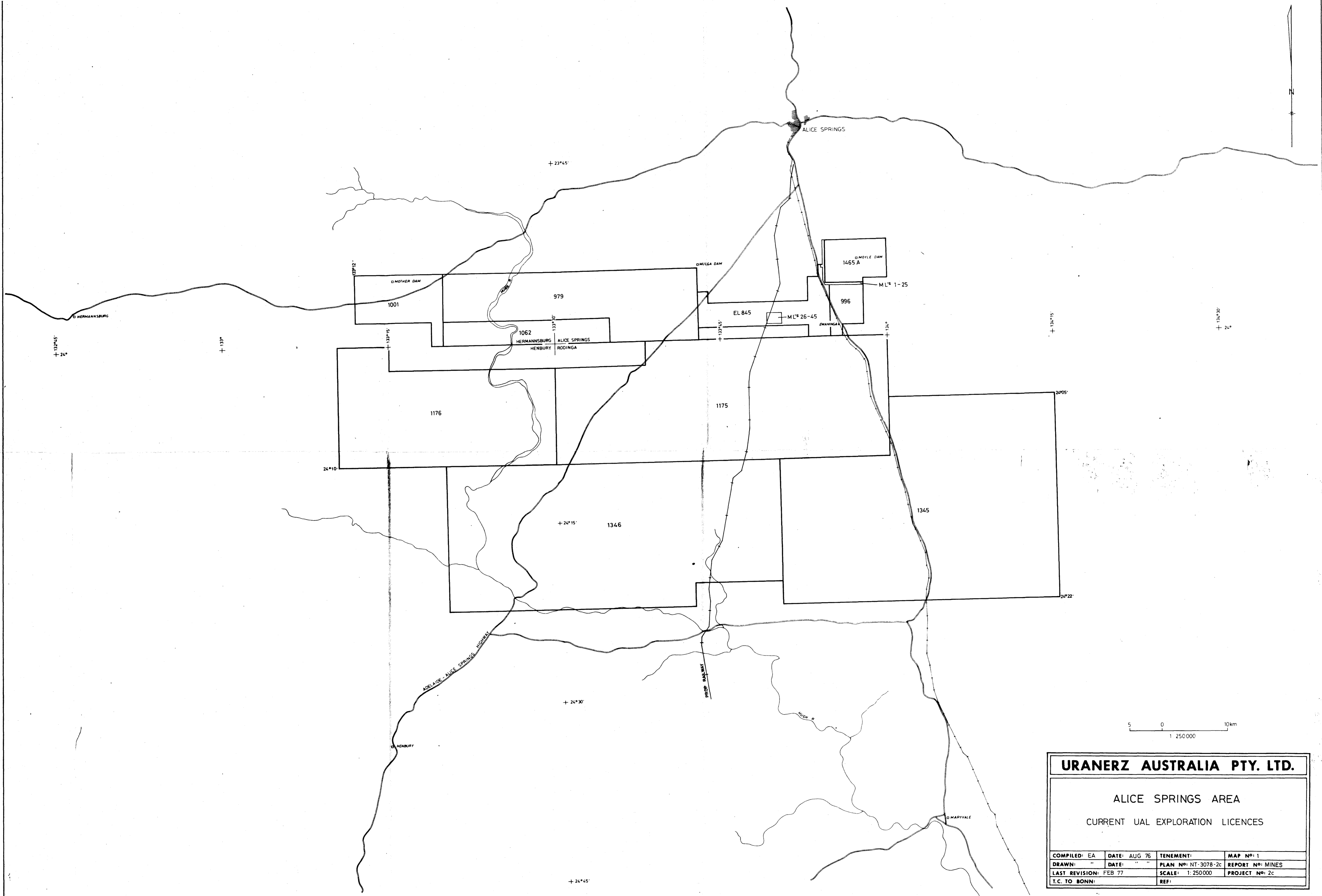
<u>Hole No.</u>	<u>Co-ord</u>	<u>Depth Drilled m</u>	<u>Track-Etch T/mm²</u>	<u>Assay from-to m</u>	<u>U₃O₈ assay ppm</u>
P143	1000W/1250S	26		-	-
P145	1500W/750S	44		-	-
P146	3680W/705N	154		122 - 124 124 - 126 126 - 128	390 20 14
P147	565W/2050S	40		-	-
P148	3810W/390N	108		78 - 80 80 - 82	8 10
P149	4000W/100N	66		38 - 40	75
P150	4200W/100N	88		54 - 56 56 - 58 58 - 60 60 - 62	34 20 6 8
P151	4400W/100S	60		-	-
P152	2900W/900N	124		-	-
P153	4670W/005S	108		-	-
P154	4800W/260S	64		24 - 26 26 - 28 28 - 30 30 - 32 32 - 34 34 - 36	75 26 6 44 6 6
P155	5200W/250S	88		60 - 62 62 - 64 64 - 66 66 - 68 68 - 70	390 250 46 18 16
P156	5550W/400S	96		62 - 64 64 - 66 66 - 68	540 140 14

LIST OF MAPS

Map 1. NT-3078-2c	Alice Springs Area : Current UAL Exploration Licences.
Map 2. NT-4263-2c	Ewaninga 2 : Drilling Progress.
Map 3. NT-4262-2c	Ewaninga 1 : Drilling Results.

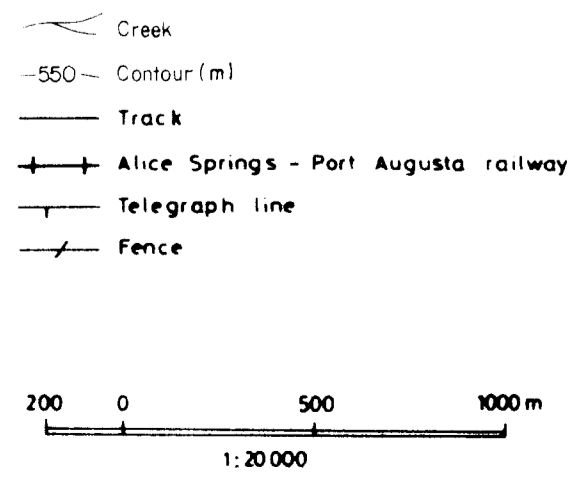
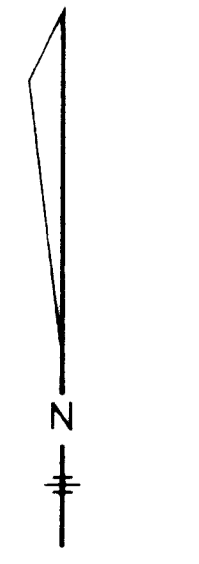
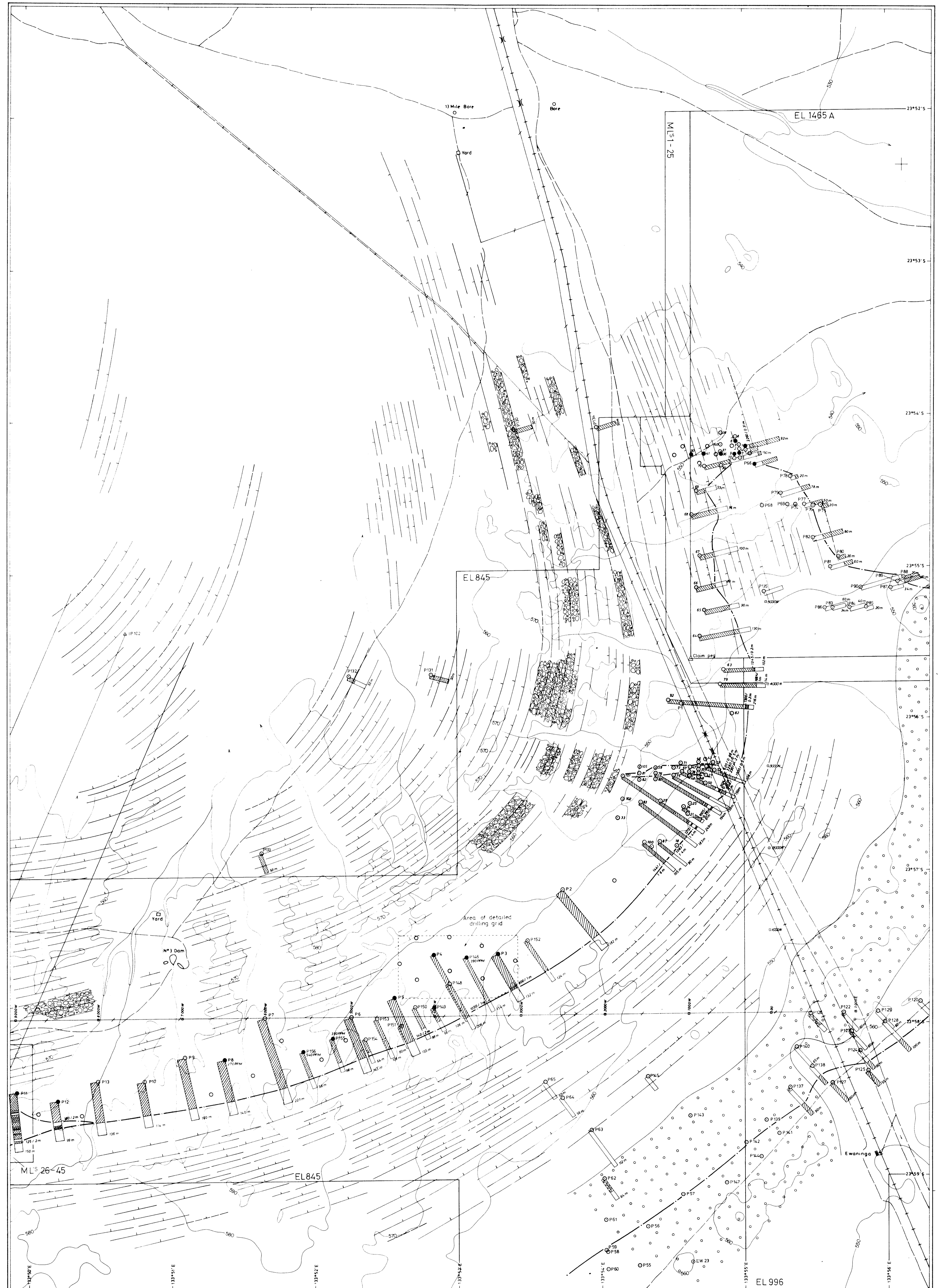
STATEMENT OF EXPENDITURE : 7.6.76 TO 6.3.77 - EL 845

Salaries and Wages	\$35,806.88
Drilling Contractors	52,627.56
Field operating costs, including consumables, rents, vehicle costs, freight, airfares etc.	<u>31,799.97</u>
	<u>\$120,234.41</u>



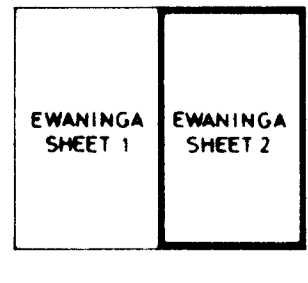
URANERZ AUSTRALIA PTY. LTD.			
ALICE SPRINGS AREA			
CURRENT UAL EXPLORATION LICENCES			
COMPILED: EA	DATE: AUG 76	TENEMENT:	MAP NO: 1
DRAWN: "	DATE: "	PLAN NO: NT-3078-2c	REPORT NO: MINES
LAST REVISION: FEB 77	SCALE: 1:250000	PROJECT NO: 2c	
T.C. TO BONN:	REF:		

CR 71/43



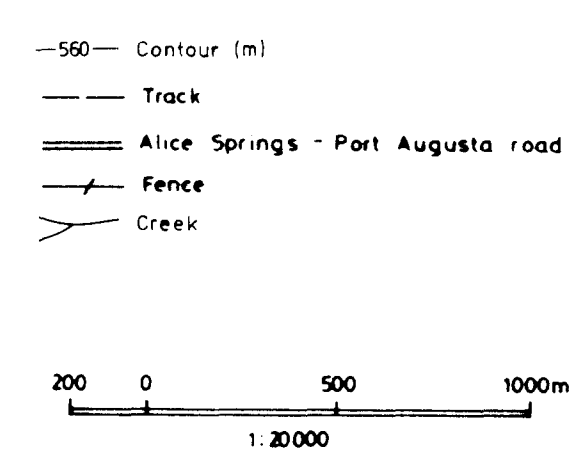
- Creek
- 500 - Contour (m)
- Track
- Alice Springs - Port Augusta railway
- Telegraph line
- Fence

- Reduced sandstone
- Oxidised sandstone
- Red/Ox boundary determined by vacuum drilling
- Bedded Brewer Conglomerate
- Drill hole
- Strike and dip of beds
- 553/2 4m PPM U₃O₈ / Depth
- Proposed drill hole
- Red/Ox boundary determined by percussion drilling
- Tertiary (gypsiferous clays, limestone, sandstone)
- Anomalous drill hole (max ppm U₃O₈)

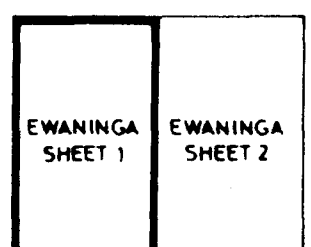


DRAWN FROM PHOTOGRAMMETRIC PLOT
FLOWN 24.5.71

URANERZ AUSTRALIA PTY. LTD.			
EWANINGA 2 DRILLING PROGRESS			
COMPILED: OT	DATE: SEP 76	TENEMENT:	MAP NO: 2
DRAWN: EA	DATE: OCT 76	PLAN NO: NT-4263-2c	REPORT NO: MINES
LAST REVISION: FEB 77	SCALE: 1:20000	PROJECT NO: 2c-845	
I.C. TO BONN:	REF:		



- 560- Contour (m)
- Track
- Alice Springs - Part Augusta road
- Fence
- Creek
- ▨ Oxidised sandstone
- ▨ Reduced sandstone
- Red/Ox boundary
- Drill hole
- Strike and dip of beds
- 125.2m PPM U₃O₈ / Depth
- Proposed drill hole
- Anomalous hole (max ppm U₃O₈)



DRAWN FROM PHOTOGRAMMETRIC PLOT
FLOWN 24.5.71

URANEF

RALIA PTY. LTD.

EWANINGA I
DRILLING RESULTS

COMPLETED	TENEMENT: 76	MAP NO: 3
DRAWN:	PLAN NO: NT-4262-2C	REPORT NO: MINES
LAST BY:	SCALE: 1:20000	PROJECT NO: 2c-845
T.C. IC	REF:	

