URANERZ (AUSTRALIA) PTY. LTD.

OT/CBB 21.3.77

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°54'S and 24°00'S and longitudes 133°43'E and 133°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

Hole No. Co-ord.	Total depth m	Colour change top/base m	Assayed interval from-to m	SRAT situ x bg	U_3O_8 ppm
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_3O_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)

Hole No. Co-ord.	Total depth m	Colour change top-base m	Assayed interval from-to m	SRAT situ x bg	U_3O_8 ppm
P 60 2,000W 3,100S	60	-	- (Tertiary)	-	-
P 61 2,000W 2,500S	50	-	- (Tertiary)	-	-
P 62 2,000W 2,000S	100	-	14-16 (Tertiary/Undandita at 40m)	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_3O_8 ppm
P143 1000W 1250S	26	(Tertiary)	-	-	-
P145 1500W 750S	44	-	-	-	-
P146 3680W 704N	154	124	122-124	10.5	390
			124-126	3.0	20
			126-128	2.5	14
P147 565W 2050S	40	(Tertiary)	-	-	-
P148 3810W 390N	108	80	78-80	2.-	8
			80-82	3.5	10
P149 4000W 100N	66	36	38-40	4.0	75
P150 4200W 100N	88	58	54-56	2.0	34
			56-58	1.5	20
			58-60	1.5	6
			60-62	1.5	8
P151 4400W 100S	60	32	30-32	4.0	50
			32-34	2.0	12
P152 2900W 900N	124	90	-	-	-
P153 4670W 5S	108	84	-	-	-
P154 4800W 260S	64	34	24-26	2.0	75
			26-28	2.5	26
			28-30	1.5	6
			30-32	2.5	44
			32-34	1.5	6
			34-36	1.5	6

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_3O_8 ppm
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_3O_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)

Hole No.	Depth Drilled m	Depth Logged m	Anomaly x bg from-to m	Thickness ½-Height Re-run Peak m	U_3O_8 assayed ppm from-to
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_3O_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_3O_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

Hole No.	Co-ord	Depth Drilled m	Sample depth m	ph	Temp °C	U_3O_8 ppb	Assay from-to m	U_3O_8 assay ppm
P143	1000W/1250S	26	Dry					
P145	1500W/750S	44	Dry					
P146	3680/705N	154	80	6.0	27		122 - 124	390
							124 - 126	20
							126 - 128	14
P147	565W/2050S	40	Dry					
P148	3810W/390N	108	21	6.0	25.5		78 - 80	8
							80 - 82	10
P149	4000W/100N	66	45	6.0	25.5		38 - 40	75
P150	4200W/100N	88	85	6.5	27		54 - 56	34
							56 - 58	20
							58 - 60	6
							60 - 62	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	75
							26 - 28	26
							28 - 30	6
							30 - 32	44
							32 - 34	6
							34 - 36	6
P155	5200W/250S	88	26	6.0	26		60 - 62	390
							62 - 64	250
							64 - 66	46
							66 - 68	18
							68 - 70	16

Table 3 (cont'd)

Hole No.	Co-ord	Depth Drilled m	Sample depth m	pH	Temp °C	U_3O_8 ppb	Assay from-to m	U_3O_8 assay ppm
P156	5500W/400S	96	69	6.0	26		62 - 64	540
							64 - 66	140
							66 - 68	14

TRACK-ETCH P143, P145 - P156

Table 4

Hole No.	Co-ord	Depth Drilled m	Track-Etch T/mm^2	Assay from-to m	U_3O_8 assay ppm
P143	1000W/1250S	26		-	-
P145	1500W/750S	44		-	-
P146	3680W/705N	154		122 - 124	390
				124 - 126	20
				126 - 128	14
P147	565W/2050S	40		-	-
P148	3810W/390N	108		78 - 80	8
				80 - 82	10
P149	4000W/100N	66		38 - 40	75
P150	4200W/100N	88		54 - 56	34
				56 - 58	20
				58 - 60	6
				60 - 62	8
P151	4400W/100S	60		-	-
P152	2900W/900N	124		-	-
P153	4670W/005S	108		-	-
P154	4800W/260S	64		24 - 26	75
				26 - 28	26
				28 - 30	6
				30 - 32	44
				32 - 34	6
				34 - 36	6
P155	5200W/250S	88		60 - 62	390
				62 - 64	250
				64 - 66	46
				66 - 68	18
				68 - 70	16
P156	5550W/400S	96		62 - 64	540
				64 - 66	140
				66 - 68	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.	31,799.97
	$120,234.41

ALICE SPRINGS

N

HERMANNSBURG

MOTHER DAM

MULGA DAM

MOYLE DAM

1465 A

ML's 1-25

979

1001

996

EL 845

ML's 26-45

1062

HERMANNSBURG | ALICE SPRINGS

HENBURY | RODINGA

EWANINGA

1176

1175

1346

1345

ADELAIDE - ALICE SPRINGS HIGHWAY

STUART HIGHWAY

HUGH R.

HENBURY

MARYVALE

23°45'

24°10'

24°15'

24°30'

24°45'

24°22'

132°45'

133°

133°12'

133°15'

133°30'

133°45'

134°

134°15'

134°30'

5 0 10km

1 250000

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:	

04-77-49

13 Mile Bore
Bore
Yard
EL 1465 A
ML's 1 - 25
23°52'S
23°53'S
23°54'S
23°55'S
23°56'S
23°57'S
23°58'S
23°59'S
EL845
IP 102
Claim peg
5000N
4000N
3000N
2000N
1000N
Area of detailed drilling grid
N°3 Dam
Yard
Ewaninga
ML's 26-45
EL845
EL 996
133°50'E
133°51'E
133°52'E
133°53'E
133°54'E
133°55'E
133°56'E

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

N

200 0 500 1000 m
1:20 000

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 U_3O_8 / Depth
Proposed drill hole
Red/Ox boundary determined by percussion drilling
Tertiary (gypsiferous clays, limestone, sandstone)
130PPM Anomalous drill hole (max ppm U_3O_8)

EWANINGA SHEET 1 | EWANINGA SHEET 2

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
T.C. TO BONN:		REF:	

A AGIP
VAC.

EL 845

EL 845

MLS 26-45

Cleared

Line

Railway

Railway

Proposed Railway Reserve

Earthworks

P36B P35B P37 P34 P33 110PPM P32 220PPM P31 P30 P29B P28 P27 P26 P25 P24 P23 P22 P16 P21 P17 P15 P53 P51 P52 P18 P43 P47 P20 P45 P46 P44 P42 P41 P19 P39 P38 P40 P14 IP101

P70 P71 P72 P73 P100 P101 P102 P104 P103

114m 64m 54m 90m 110m 104m 160m 92m 160m 70m 106m 192m 64m 130m 120m 135m 80m 110m 70m 175m 110m 90m 100m 76m 120m 68m 52m 165m 90m 110m 184m 44m 20m 20m 20m

23°52'S 23°53'S 23°54'S 23°55'S 23°56'S 23°57'S 23°58'S 23°59'S

133°44'E 133°45'E 133°46'E 133°47'E 133°48'E 133°49'E

20,000W 19,000W 17,000W 16,000W 15,000W 14,000W 13,000W 12,000W 11,000W 10,000W

560 570 580 590 600 610

N

200 0 500 1000m
1:20000

—560— Contour (m)
— — Track
═══ Alice Springs - Port Augusta road
—/— Fence
Creek

Oxidised sandstone
Reduced sandstone
Red/Ox boundary
Drill hole
Strike and dip of beds
125/2m PPM U_3O_8 / Depth
Proposed drill hole
230PPM Anomalous hole (max. ppm U_3O_8)

EWANINGA SHEET 1	EWANINGA SHEET 2

DRAWN FROM PHOTOGRAMMETRIC PLOT
FLOWN 24·5·71

URANEF RALIA PTY. LTD.

EWANINGA I
DRILLING RESULTS

COMPILED	76	TENEMENT:	MAP No: 3
DRAWN:	76	PLAN No: NT-4262-2c	REPORT No: MINES
LAST RI		SCALE: 1:20000	PROJECT No: 2c-845
T.C. TC		REF:	