AUSTRALIA AND NEW ZEALAND EXPLORATION COMPANY

FINAL REPORT

ON

EXPLORATION LICENCE 2094

FRANCES CREEK

NORTHERN TERRITORY

E.R. DAVIES

JANUARY, 1981

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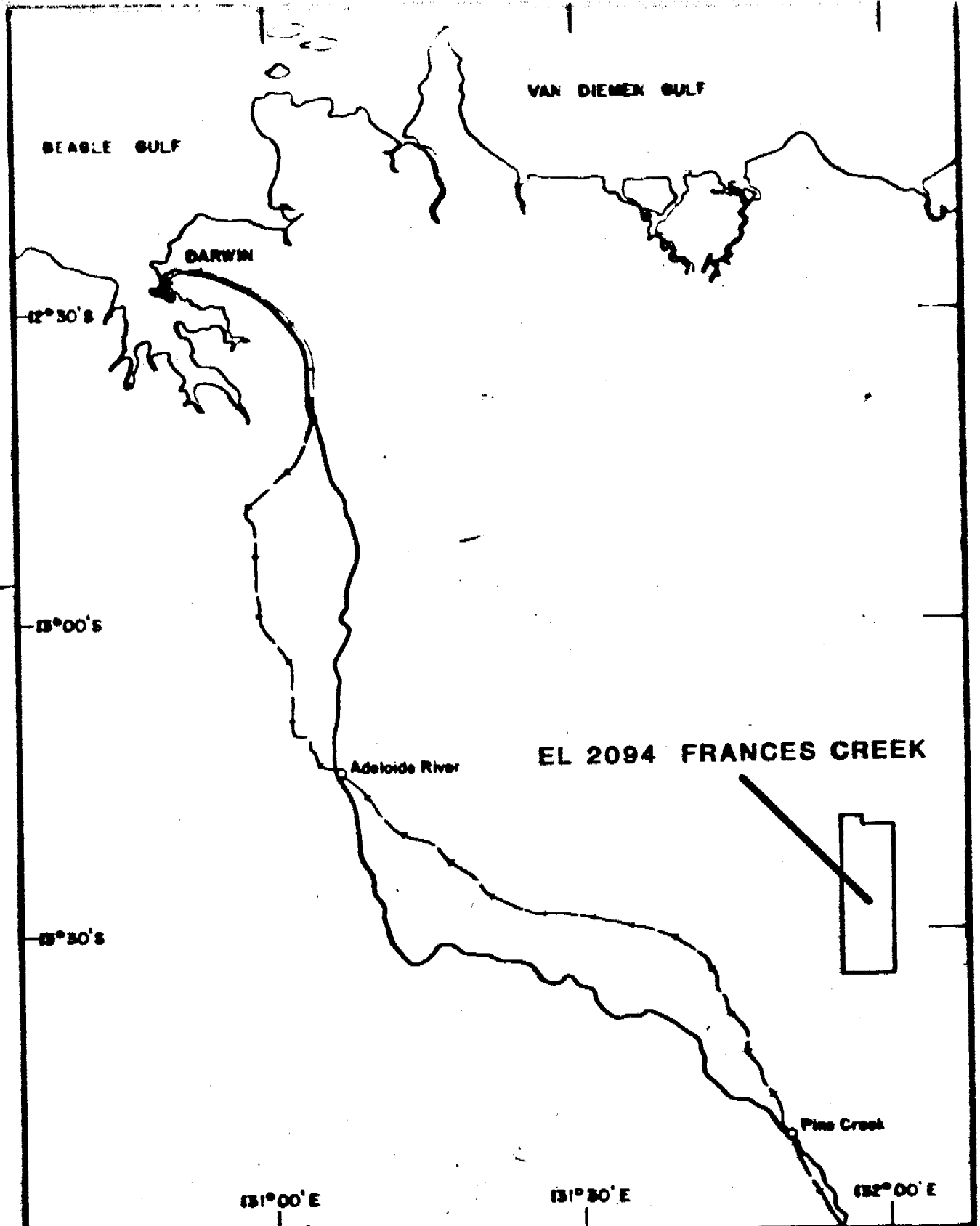


AUSTRALIA AND NEW ZEALAND EXPLORATION COMPANY

LOCATION PLAN

EL 2094 FRANCES CREEK N.T.

Fig. 1.

Prepared E.R. Davies		Drawn A.L.L.
Scale 1:1 million	Date July 18,'80	Proj. X827-086-2
	Report	Dwg. NT80-28

1. INTRODUCTION

Exploration Licence 2094 was granted to Australia and New Zealand Exploration Company (ANZECO) on June 11, 1979, for an initial period of one year and subsequently extended for a second year. During the period, the terms for an agreement were negotiated with Thiess Bros Pty Ltd for a 50% contributing joint venture interest in E.L. 2094 and other properties, with ANZECO being the manager and operator in the exploration stages of evaluation.

The tenement was acquired to prospect for uranium and tungsten deposits within the Cullen Granite and in sediments.

2. LOCATION AND ACCESS

E.L. 2094 is centred 40 km. east-north-east of Pine Creek, N.T. and is 304 sq.km. in area (Fig. 1). It lies wholly within the Mary River Pastoral Lease.

The main access to the area is via the graded gravel road from the South Alligator - Pine Creek Road northwards to Mary River Homestead, which lies just outside the southeast corner of the E.L. Access to the northern part of the area can be gained by the earth roads which are east of Mount Wells.

Station track and fenceline access is variable within the area, with the smallest paddocks occuring in the southeast, nearest to the Homestead.

The granite areas are generally level, with wide, often black-soil covered, drainage channels. The sediment areas are variably rugged, dependent on the local lithology, and consist of steep ridges separated by valleys. Most of this ground was successfully traversed by vehicle.

3. LAND USE AND ABORIGINAL SITES

3.1 The area is used for cattle and buffalo grazing. The northern and eastern sides of the E.L., being underlain by granite, are classified within the Cullen Land System and have thin sandy soils with a relatively low stock carrying capacity. Permanent natural water is restricted to the perenial flowing Mary River, and to some pools in the larger creeks. The western part of the area, underlain by sediments, is classified within the Brocks Creek Ridge Land System, which has generally a low stock carrying capacity, except for some wide valleys where good pasture occurs. Surface water is limited to pools in the major creeks and to one limited capacity dam in the southern part of the tenement.

3.2 Enquiries at the Northern Land Council and with local aborigines have yielded no information on the possible existence of sites of significance to the aboriginal population.

4. PREVIOUS EXPLORATION

The region was mapped by the Bureau of Mineral Resources in the 1950's, with the work forming the basis of geological knowledge incorporated in the BMR Bulletin No. 82 by Walpole, Crohn, Dunn & Randal (1968).

The BMR commenced systematic 1:50,000 scale regional mapping in the early 1970's, and this work has currently progressed to include the extreme north of E.L. 2094. It is anticipated that the BMR program will cover the tenement area during 1980.

No mineral prospects or mines are known within E.L. 2094, and there is no systematic company exploration over the area prior to the current program evident, although some minor prospecting appears to have taken place.

5. GEOLOGY OF E.L. 2094

5.1 Seventy-five percent of the tenement was mapped during the program (Plate No.1). About 60% of the total area is underlain by granite, which comprises part of the north-east lobe of the Cullen Granite batholith. The remaining area is underlain by sediments attributed to the Batchelor and Namoona Group in the latest BMR map (1:50,000 scale, Pine Creek Geosyncline). This correlation will receive comment in a later section.

5.2 Granites

Granite, which underlies much of the E.L., is poorly exposed as occasional residual tors and in creeks and river bed outcrops. It is a relatively uniform coarse-grained adamellite with no great degree of differentiation apparent. The granite forms topographically low areas and has a cover of sandy residual soils and alluvium. The main drainages are incised several metres into wide alluvial valleys.

The granite contact is generally conformable to the strike of the host metasediments, and an intrusive contact seems present over much of the area. However, in the centre of the E.L., a faulted contact appears to exist for several kilometres, as shown by occasional brecciation and quartz veining. The proposed fault extends northwards into the granite. Two minor granite outliers occur within metasediment contact rocks near to the main granite body in the centre of the E.L.

5.3 Metasediments

5.3.1 The bulk of the metasediments consist of a repetitive sequence of quartzite and greywacks with some shales. The sequence of folded greywackes and quartzite occurring in the southwest of the E.L. appears to be a different formation from the sediments immediately to the northeast, and is separated from them by an extensively sheared and locally haematised contact. The Southwest formation is tightly folded on northwest axes, with fold limbs dipping up to 80°. Ridge features are caused by quartzite beds some tens of metres thick which can be traced over extensive distances by ground and airphoto mapping. It is thought that these rocks comprise part of the Mount Partridge Group of sediments.

5.3.2 Northeast of the above rocks, in sheared contact with them, occurs a series of shales and limestones which crops out very poorly in a broad valley. The continuation of these rocks northwestwards on the northwest side of Frances Creek, which is the line of a cross-cutting structural feature, has not been demonstrated, but there is very little outcrop in the valley in this area. The poor outcrop does not permit subdivision of the units in the formation, and the variable dips measured indicate repetition of outcrop by fairly tight folding. Dips up to 70° have been measured, with a regional northwest strike. The limestone outcrops indicate beds of marbleised limestone grading into thin interbeds of limestone and shale. In the southeast of this zone, the shales strike locally southwestward, with a steep northerly dip. This local change of regional strike may be a consequence of forcible intrusion of the nearby granite.

5.3.3 East of the shale/limestone sequence, and between it and the granite, is a series of greywackes and carbonaceous shales separated by a thin quartzite bed, dipping steeply to the southwest and west. This sequence appears to extend northwards across Frances Creek, where it widens in outcrop considerably to constitute most of the sedimentary succession north of the Creek. South of Frances Creek, the contact with the shale/limestone sequence is apparently partially faulted, with haematised shears and, in places, a quartz veined contact. The great widening of the outcrop of the greywacke component north of Frances Creek (Plate 1) is apparently due to an actual thickening of the sequence.

5.3.4 The correlation of the rock units within the E.L. may be revised as a result of the current BMR regional mapping program. The quartzites/greywackes in the southwest of the area may be part of the Mount Partridge Group as presently defined. The writer suggests that the carbonaceous shales at the granite contact represent Namoona Group sediments which grade up into clastics of the Mount Partridge Group - constituting the greywackes with interbedded quartzite north of Frances Creek. These rocks thus may be correlated with the formation in the southwest of the E.L., with the differences in lithology, i.e., coarser grained rocks in the southwest, being a function of provenance of source material. The two representative areas of the Mount Partridge Group are brought into apparent geographic proximity by folding and by faulting. The two areas are separated in the south of the E.L. by the shale/limestone succession. It is suggested that this is correlated with the South Alligator Group sediments. South Alligator Group

rocks of similar lithology have been mapped in the Evelyn-Moline area to the southeast, on strike with the rocks in E.L. 2094, although separated by the 12 km. wide granite batholith.

5.3.5 Minor areas of ?Tertiary lateritized conglomeratic capping occur in places in the southwest of E.L. 2094.

5.4 Alteration

5.4.1 The granite shows little obvious signs of alteration, other than weathering, except in the extreme southeast of the E.L., where a well developed greisenous zone is developed in the contact rocks. Greisenization is localised, and occurs mostly in the granites but, in places, does involve some country rock sediments. Some local contact granites are silicified, and a trace of molybdenite was seen. This is an area of some geochemical anomalism.

5.4.2 Along much of the granite contact zone the effects of thermal metamorphism are evident in the sediments. Locally chiastolite crystals are abundant in carbonaceous shales, which also show some signs of hornfelsing and sericitization. The contact between the limestone and the granite is not visible and marble-ised limestone 400 m. from the contact shows no evident signs of tactite development.

5.4.3 Low grade regional metamorphic effects occur in all sediments, as evident in recrystallization in quartzite and limestone, the latter with minor tremolite development, and with minor sericitization on bedding and cleavage planes. The development of earthy haematite is ubiquitous in the greywackes and is frequently associated with shearing and faulting.

5.5 Structure

5.5.1 The regional strike of the sedimentary units is northwesterly, although a sigmoidal pattern occurs within the E.L., with a north-south strike in the centre of the tenement. The sediments are somewhat tightly folded, with dips to 80°, particularly to the southwest. In the central part of the area dips are moderate to steep to the southwest, and tight folding has not yet been recognised.

5.5.2 The positive identification of faults is difficult in the area. Much of the movement appears to be of strike-slip type, and the general absence of quartz veining means that many faults may not be recognised. The development of haematite in fractures and fault zones may enable identification but, in itself, may not be positive evidence of movement.

5.5.3 The major structural linear in the E.L. cannot be identified on the ground, but is evident in airphotos and particularly in Landsat imagery. This is a major northeast trending linear along Frances Creek, and which is parallel to other similar major linear features - one of which traverses the northwest corner of the E.L. These structures form a zone which can be traced in length for at least 100 km. It has been noted that the Frances Creek linear coincides with the thickening of a major greywacke unit within the E.L.

6. STREAM SEDIMENT SAMPLING

6.1 General

A program of stream sediment sampling was carried out over E.L. 2094. The areas underlain by sediment were sampled at a density of about one sample per kilometre, while sampling conditions on the granitic areas in places precluded meaningful sediment sampling over large areas. A total of 318 samples was collected, the locations of which are shown on Plate 2. The -80 mesh fraction of the samples was assayed for Cu, Pb, Zn, Bi, Mo, W, Sn, Th and total and leachable U. The results are tabulated in Appendix 1. The assay results were assessed separately for the sedimentary and granitic areas, with a statistical analysis based on the means and standard deviation. The conclusion is that the results for base metals can probably be assessed in a useful form by this method, but the limitations of the analytical techniques for the other metals preclude reliable interpretation by such statistical methods.

6.2 Uranium

6.2.1 Granite Areas - The mean uranium value (total extraction) in sediment samples taken in granitic areas is 7.3 ppm, with the mean leachable value being 2.7 ppm. Values range up to 16 ppm total and 15 ppm leachable uranium. Higher total uranium values, e.g., above 10 ppm, are usually - but not invariably - associated with elevated thorium values. It is probable that detrital thorium minerals in the samples contain minor concentrations of uranium which is reflected in the total uranium analysis.

6.2.2 Sediment Areas - The mean total uranium value in sediment areas was undetermined as many samples contain uranium values below the assay detection limit. The mean is probably about 4 ppm, with values ranging up to 12 ppm. One sediment value of 20 ppm was obtained from a watercourse draining a granite contact. Leachable uranium values range up to 9 ppm, again from drainages near granite contacts. The mean leachable uranium value in sedimentary areas would be 2 or 3 ppm.

6.2.3 Plate 2 shows all samples with leachable uranium values of 5 ppm and above, together with the total uranium and thorium values. The main area of possible interest occurs in the southeast of the E.L., where drainages from the greisenised granite contact shows minor elevated leachable uranium values up to 15 ppm.

6.3 Molybdenum, Tungsten, Tin, Bismuth

6.3.1 Molybdenum values are generally low, normally 2-5 ppm. A number of 10-15 ppm values are randomly scattered in the sedimentary areas and no significance is attached to them. Two adjacent sediment values of 45 and 20 ppm in the centre of the E.L. occur in short drainages in an area of some minor faulting.

6.3.2 Tungsten values are 10 ppm or less.

6.3.3 The highest tin value of 30 ppm is unsupported and occurs in sediments. Generally, tin values are 10 ppm or less, with some values of 15-20 ppm occurring near the granite contacts.

6.3.4 Bismuth values are low, ranging up to 35 ppm in sediment samples. Higher values, i.e., 15+ ppm, tend to be associated with elevated base metal values. A soil sample, taken at a ferruginous outcrop (Sample 6574) gave a bismuth assay of 280 ppm with anomalous copper, lead and zinc values.

6.4 Copper, Lead, Zinc

6.4.1 These results were statistically analysed for both granitic and sedimentary environments, and separate mean and standard deviation figures established. The notable results are plotted on Plates 3, 4 and 5.

6.4.2 Copper values above the Mean +2 S.D. level are concentrated along the granite contact zones with some other scattered values elsewhere. Values up to 150 ppm occur near the granite, and soil samples show up to 330 ppm.

6.4.3 Lead values above the Mean +2 S.D. level are even more localised on the granite contact zone than are copper, with only a few anomalous values elsewhere in the area. Sediment lead values range up to 140 ppm, with soil values to 350 ppm.

6.4.4 Anomalous zinc values are also concentrated near the granite contact, ranging up to 540 ppm.

6.4.5 The anomalous metal values were followed up by soil sampling, as described in Section 9.

7. HEAVY MINERAL SAMPLING

A total of 108 heavy mineral concentrate samples were collected, mainly from drainages over the granite contact zones, and were examined for scheelite and other minerals. The results are tabulated in Appendix 4 and the locations are shown on Plate 6. Minor concentrations of scheelite occur at the southern boundary of the E.L., in creeks draining the granite contact zone. Minor concentrations also occur in a few short creeks in the centre of the E.L. The grain count in Appendix 4 refers to the number of large, medium and small scheelite grains recovered from concentrating a standard sized sample of stream gravel.

8. RADIOMETRIC SURVEYS

8.1 The Exploration Licence area was covered by a car-borne survey using a GAD4 spectrometer coupled to a 348 cc crystal and an external analogue dial and audio alarm system. The area was traversed on lines at 300-400 m. spacing. Additional to the continuous survey, local spectral readings were taken at 500 m. intervals on the traverses, the sites of which are shown on Plate 7. Approximately 610 km. of traverse were carried out. Local areas of steep slopes were covered with foot traverses using a Geometrics 410 spectrometer with a 347 cc crystal.

8.2 No obvious anomalies of uranium origin were identified during this sruvey. The spot spectral readings are detailed in Appendix 5.

9. SOIL SAMPLING

Ninty-three soil samples were collected along lines on both sides and at the base of the hill ridge, over a distance of several kilometres. Samples were roughly 200 m. apart. The locations are shown on Plate 3, and the results on Plate 9 and Appendix 2.

Several groups of anomalous soil samples occur, as well as isolated high values. Metal values up to 140 ppm copper, 200 ppm lead and 460 ppm zinc were recorded. At the southeast end of the sampled area, soil samples on both sides of the ridge showed anomalous values for a strike length of 1 km.

10. ROCK SAMPLING

Traverses were made over the hill ridge in the vicinity of major soil anomalies, particularly in the southeast area. The southern flank of the hill ridge is underlain by normal shales, with minor ferruginous concentrations probably associated with fractures. Three of these thin ironstone concentrations were grab sampled (Samples 15559-61), the samples showing some elevation in copper (to 110 ppm) and lead (to 400 ppm). The crest of the ridge is coincident with a 10-20 m. thick quartzite bed. The north flank of the ridge is composed of normal and carbonaceous shales. The latter enclose lenses of haematitic material which appear to be stratabound, but with some indications of cross-cutting accumulations of ironstone. The lenses are up to 100 m. long. It is difficult on the evidence available to decide whether the material was originally stratabound ironstone, subsequently partially remobilized into cross-cutting fractures, or whether the mineralization was introduced into cross-cutting fractures and replaced receptive bedding units. The granite contact lies within 100 m. of the occurrences. Seven grab samples of various ironstone outcrops were taken. The results are listed in Appendix 3 and the locations shown on Plate 8. Metal values up to 130 ppm copper, 600 ppm lead and 0.18% zinc indicate that this material is probably the source of the anomalous metal values in soil samples downslope. Gold assay values are negligible.

11. CONCLUSIONS AND RECOMMENDATIONS

11.1 There is little evidence of a significant uranium potential in E.L. 2094.

11.2 There is little evidence of significant tungsten, tin or molybdenum potential in the area.

11.3 The size and base metal grade potential of the weakly mineralized ferruginous lenses in the southeast of E.L. 2094 appear to be totally inadequate for the development of an economic mineralized body.

11.4 It is recommended that the Exploration Licence be relinquished.

E.R. Davies
Senior Geologist

REFERENCES

CROHN, P.W., 1975, Frances Creek Iron Ore Deposits, N.T., in Econ.Geol. of Australia & Papua New Guinea, No.5, Metals.

DAVIES, E.R., 1980, Annual Report on Exploration Licence 2094, ANZ Explor. Co., unpublished report.

EWERS, G.R. & SCOTT, P.A., 1977, Geochemistry of the Cullen Granite, N.T., BMR Journal Vol. 2, No.3.

WALPOLE, B.P., CROHN, P.W., DUNN, P.R. & RANDAL, M.A., 1968, Geology of the Katherine-Darwin Region, N.T., BMR Bulletin 82.

E.L. 2094 - FRANCES CREEK

FINAL STATEMENT OF EXPENDITURE
FOR THE PERIOD JUNE 11, 1979 TO NOVEMBER 24, 1980

	$
Salaries	9,957.20
Wages	4,923.82
Fringe Costs	2,854.15
Office Rent	153.41
Telephone	468.29
Postage & Freight	169.23
Publications	29.62
Supplies - Office	215.25
Maps & Reproductions	501.10
Medical	81.19
Equipment Maintenance	336.25
Entertainment	11.00
Miscellaneous	7.14
Air Fares	1,625.97
Hotels & Food	1,570.61
Hire Cars & Taxis	250.58
Legal	995.00
Equipment - Non-capital	1,427.69
Charter Aircraft	311.15
Vehicle Expense	5,124.36
Option/Property Payments	422.00
Camp Accommodation	6,944.42
Assays	5,613.05
Sydney Overhead	8,311.15
TOTAL	$52,303:63

131°55' E | 131°57' E | 132°00' E

13°20'S

13°21'S

M.R. 275

E.L. 1094
C.R.A.

RESERVE

POLICY

WELLS

MT.

C.R.A. EXPLN. P/L.

E.L. 1092

M.R. 564

E.L. 2047 — CASEY

E.L. 2000
ANZECO

13°30'S

13°35'S

Mount Saunders
1107

Extent of geological mapping

Common quartz vein

Principally greywacke with minor dirty quartzites
Ubiquitous earthy haematite alteration

Carbonaceous shale
Graphitic schist unit along contact
Chiastolite common
Boudinage structures developed along the contact

Alluvium, no o/c
Quartzite and greywacke fr

Strike Slip Fault

Some minor white and red shales close to contact

Alluvium
poor o/c

Limestone tremolite finely interbedded with black shales

Carbonaceous shale and graphitic schist

Quartzites and dirty quartzites some greywacke
Sequence repetitive

Fe breccia

Ferruginous shale

Fe

Chiastolite

haematised shear

Poor outcrop alluvial cover some shale float

Conglomerate capping

Conglomerate capping

TN

MN

True North / Magnetic North deviation is 3°46' easterly — corrected for 1979
Annual change is 01' westerly

MT MASSON

?

UNION REEF

MOLINE

Topography from the above preliminary 1:50,000 sheets

Carbonaceous shale

Quartzite

Greywacke

Limestone/dolomite

Granite

Quartz vein

Shear

Fault

Landsat linears

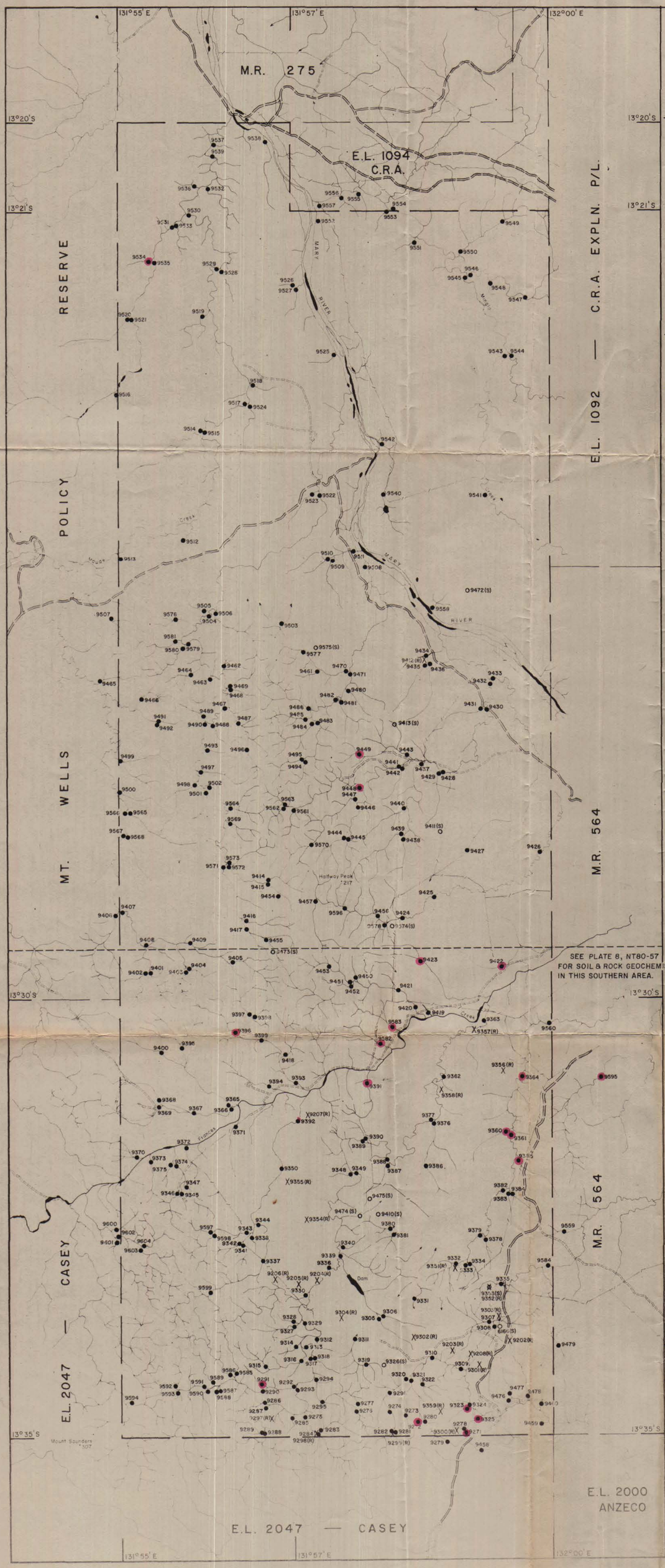
AUSTRALIA AND NEW ZEALAND EXPLORATION COMPANY

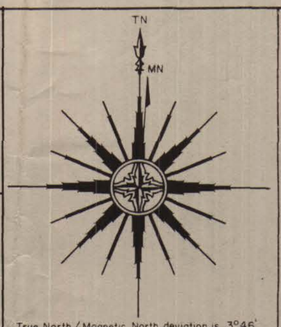
E.L. 2094 "FRANCES CREEK" N.T.

GEOLOGY

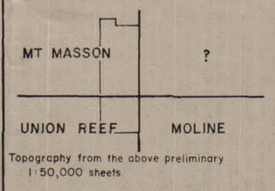
PLATE 1

Prepared, E.R.Davies, B.G.Taylor	Drawn by, ALL	
Scale, 1:50,000	Date, July 18,'80	Proj. N° X827-056-2
Drawing NT80-27	Report N°	Lib. N°





True North / Magnetic North deviation is 3°46' easterly — corrected for 1979.
Annual change is 01' westerly.



Topography from the above preliminary 1:50,000 sheets

AUSTRALIA AND NEW ZEALAND EXPLORATION COMPANY

E.L. 2094 "FRANCES CREEK" N.T.

SAMPLE LOCATIONS

Prepared by,	Drawn by, A.L.L.		Proj. N° X827-056-2
Scale, 1:50,000	Date,		Lib. N°
Drawing N° NT79-57	Report N°		

SAMPLE LIST.

9202(R) - 9208(R); 9271 - 9604; 6166(S). TOTAL - 342.

Stream sediment	- 306	9271-9296; 9305-9325; 9327-9350; 9360-9409; 9414-9471; 9476-9573; 9576-9604
Soil	- 12	9326; 9353; 9410,11,13; 9472-9475; 9574,75; 6166.
Rock	- 24	9202-9208; 9297-9304; 9351,52; 9354-9359; 9412.
Heavy Mineral Concentrate	- 108	See NT80-3

Uranium ppm (Leachable U where 5ppm or more and where leachable U is 50% of total U)

Anomalous sample (mean + 2 standard deviations in one or more elements)

Cu Pb Zn

- ●9604 Stream sediment sample
- ○9575(S) Soil sample
- X 9412(R) Rock sample
- E.L. Boundary
- Minor road
- Track
- Fence

Anomalous Values	Copper	Lead	Zinc
Sediments mean	23	28	46 ppm
Granites mean	18	30	31 ppm
Sediments mean + 2 S.D.	44	90	150 ppm
Granites mean + 2 S.D.	42	67	94 ppm

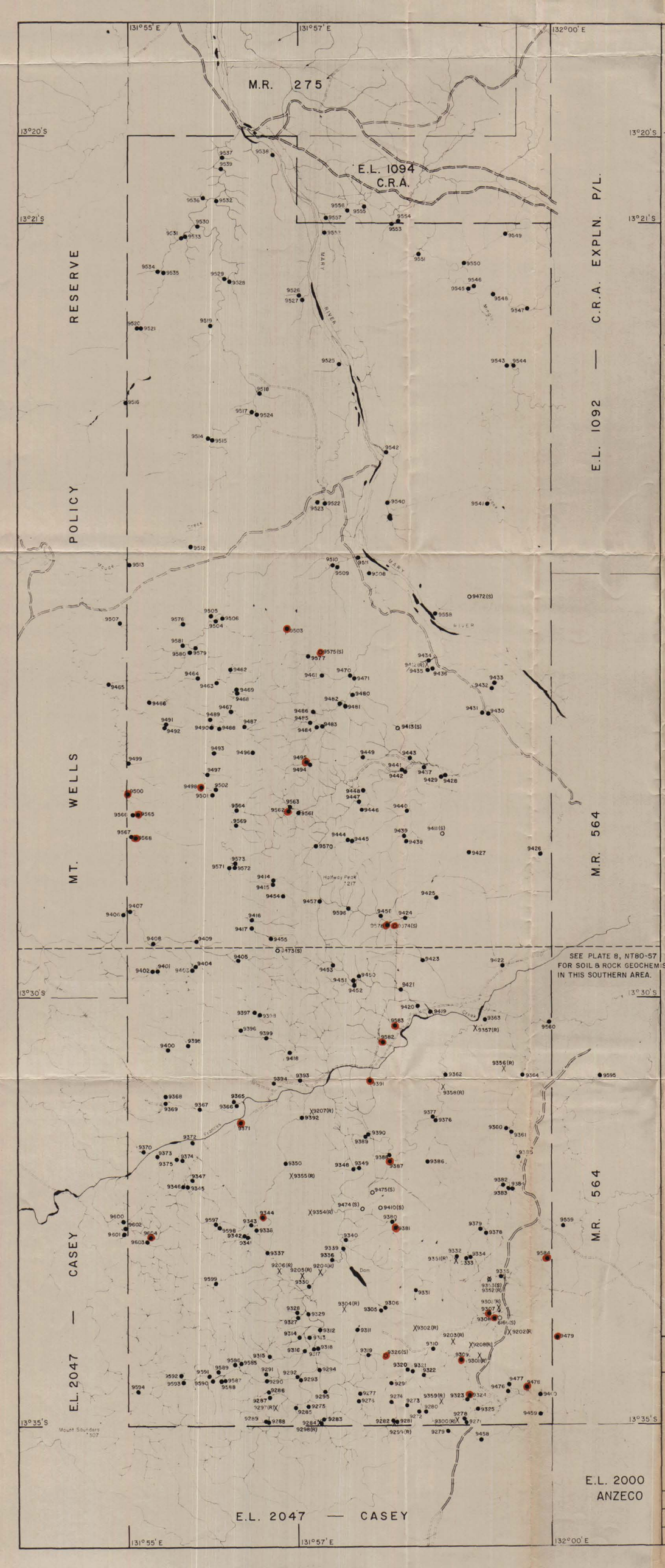
AUSTRALIA AND NEW ZEALAND EXPLORATION COMPANY

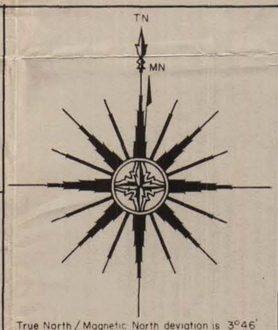
E.L. 2094 "FRANCES CREEK" N.T.

SAMPLE LOCATIONS

URANIUM PLATE 2

Prepared by, E.R. Davies, B.G. Taylor, D.J. Crook		Drawn by, A.L.L.
Scale, 1:50,000	Date, Dec 14, '79	Proj. N° X827-056-2
Drawing N° NT79-57	Report N°	Lib. N°





True North / Magnetic North deviation is 3°46' easterly — corrected for 1979
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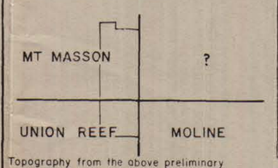

Topography from the above preliminary 1:50,000 sheets

AUSTRALIA AND NEW ZEALAND EXPLORATION COMPANY

E.L. 2094 "FRANCES CREEK" N.T.

SAMPLE LOCATIONS

Prepared by, | Drawn by, A.L.L.
Scale, 1:50,000 | Date, | Proj. No X827-056-2
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Heavy Mineral Concentrate	- 108	See NT80-3

Uranium ppm (Leachable U where 5ppm or more and where leachable U is 50% of total U)

Anomalous sample (mean + 2 standard deviations in one or more elements)

Cu
Pb
Zn

- ●9604 Stream sediment sample
- ○9575(S) Soil sample
- X 9412(R) Rock sample
- E.L. Boundary
- Minor road
- Track
- Fence

SEE PLATE 8, NT80-57 FOR SOIL & ROCK GEOCHEMISTRY IN THIS SOUTHERN AREA.

Anomalous Values	Copper	Lead	Zinc
Sediments mean	23	28	46 ppm
Granites mean	18	30	31 ppm
Sediments mean + 2 S.D.	44	90	150 ppm
Granites mean + 2 S.D.	42	67	94 ppm

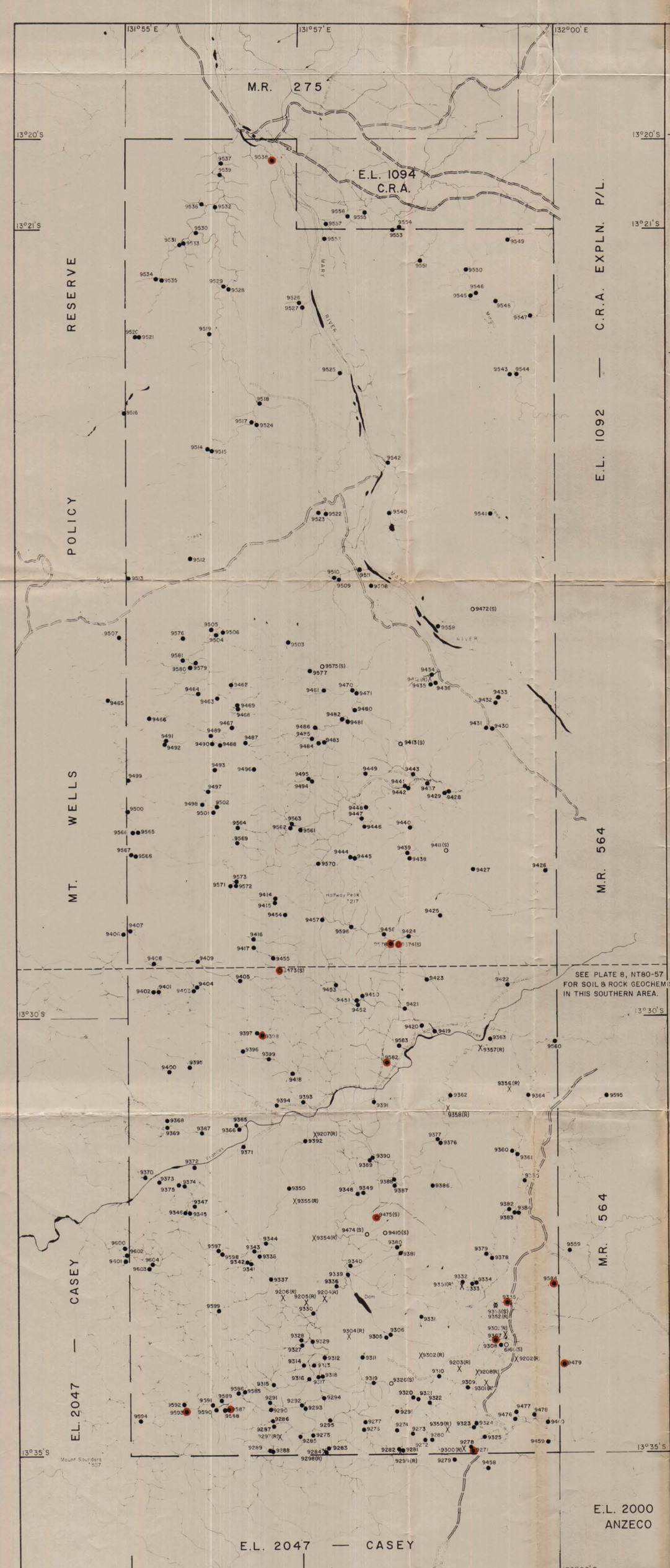
AUSTRALIA AND NEW ZEALAND EXPLORATION COMPANY

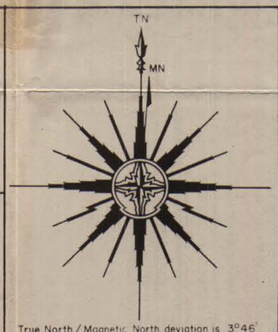
E.L. 2094 "FRANCES CREEK" N.T.

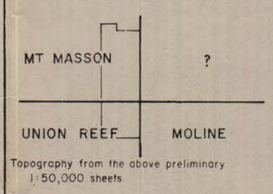
SAMPLE LOCATIONS

COPPER PLATE 3

Prepared by, E.R.Davies, B.G.Taylor, D.J. Crook | Drawn by, A.L.L.
Scale, 1:50,000 | Date, Dec 14,'79 | Proj. No X827-056-2
Drawing No NT79-57 | Report No | Lib. No







Topography from the above preliminary 1:50,000 sheets

AUSTRALIA AND NEW ZEALAND EXPLORATION COMPANY

E.L. 2094 "FRANCES CREEK" N.T.

SAMPLE LOCATIONS

Prepared by,	Drawn by, A.L.L.	Proj. No X827-056-2	
Scale, 1:50,000	Date,	Report No -	Lib. No
Drawing No NT79-57			

SAMPLE LIST.

9202(R) - 9208(R); 9271 - 9604; 6166(S). TOTAL - 342.

Stream sediment	- 306	9271-9296; 9305-9325; 9327-9350; 9360-9409; 9414-9471; 9476-9573; 9576-9604
Soil	- 12	9326; 9353; 9410,11,13; 9472-9475; 9574,75; 6166.
Rock	- 24	9202-9208; 9297-9304; 9351,52; 9354-9359; 9412.
Heavy Mineral Concentrate	- 108	See NT80-3

Uranium ppm (Leachable U where 5ppm or more and where leachable U is 50% of total U)

Anomalous sample (mean + 2 standard deviations in one or more elements)

Cu
Pb
Zn

- ●9604 Stream sediment sample
- ○9575(S) Soil sample
- X 9412(R) Rock sample
- E.L. Boundary
- Minor road
- Track
- Fence

Anomalous Values	Copper	Lead	Zinc
Sediments mean	23	28	46 ppm
Granites mean	18	30	31 ppm
Sediments mean + 2 S.D.	44	90	150 ppm
Granites mean + 2 S.D.	42	67	94 ppm

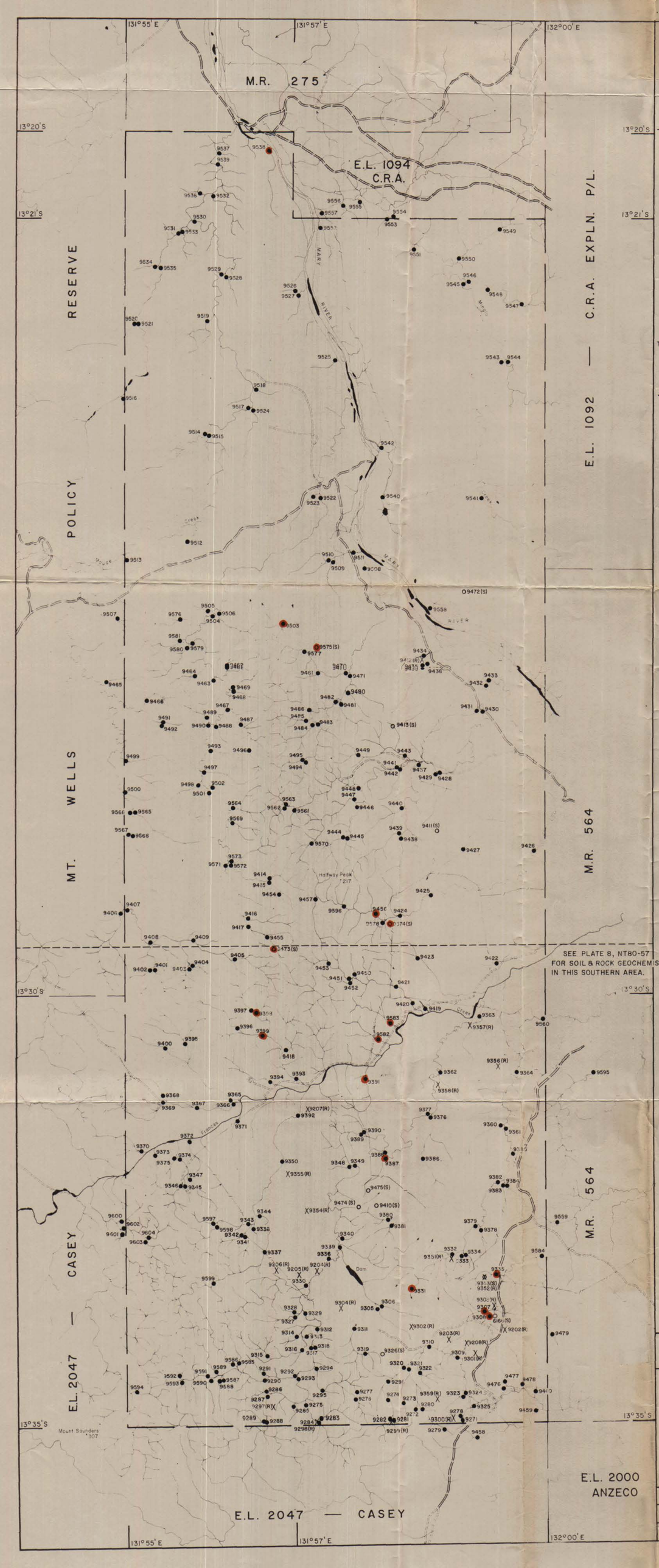
AUSTRALIA AND NEW ZEALAND EXPLORATION COMPANY

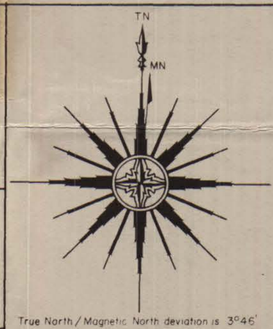
E.L. 2094 "FRANCES CREEK" N.T.

SAMPLE LOCATIONS

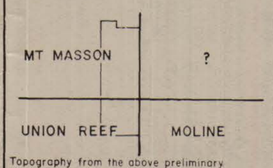
LEAD PLATE 4

Prepared by, E.R.Davies, B.G.Taylor, D.J.Crook		Drawn by, A.L.L.
Scale, 1:50,000	Date, Dec 14, '79	Proj. No X827-056-2
Drawing No NT79-57	Report No	Lib. No





True North / Magnetic North deviation is 3°46' easterly — corrected for 1979.
Annual change is 01' westerly.



Topography from the above preliminary 1:50,000 sheets

AUSTRALIA AND NEW ZEALAND EXPLORATION COMPANY

E.L. 2094 "FRANCES CREEK" N.T.

SAMPLE LOCATIONS

Prepared by, | Drawn by, A.L.L.
Scale, 1:50,000 | Date, | Proj. N° X827-056-2
Drawing N° NT79-57 | Report N° | Lib. N°

SAMPLE LIST.

9202(R) - 9208(R); 9271 - 9604; 6166(S). TOTAL - 342.

Stream sediment	- 306	9271-9296; 9305-9325; 9327-9350; 9360-9409; 9414-9471; 9476-9573; 9576-9604
Soil	- 12	9326; 9353; 9410,11,13; 9472-9475; 9574,75; 6166.
Rock	- 24	9202-9208; 9297-9304; 9351,52; 9354-9359; 9412.
Heavy Mineral Concentrate	- 108	See NT80-3

Uranium ppm (Leachable U where 5ppm or more and where leachable U is 50% of total U)

Anomalous sample (mean + 2 standard deviations in one or more elements)

Cu
Pb
Zn

- ●9604 Stream sediment sample
- o9575(S) Soil sample
- X 9412(R) Rock sample
- E.L. Boundary
- Minor road
- Track
- Fence

Anomalous Values	Copper	Lead	Zinc
Sediments mean	23	28	46 ppm
Granites mean	18	30	31 ppm
Sediments mean + 2 S.D.	44	90	150 ppm
Granites mean + 2 S.D.	42	67	94 ppm

AUSTRALIA AND NEW ZEALAND EXPLORATION COMPANY

E.L. 2094 "FRANCES CREEK" N.T.

SAMPLE LOCATIONS

ZINC PLATE 5

Prepared by, E.R.Davies, B.G.Taylor, D.J. Crook		Drawn by, A.L.L.
Scale, 1:50,000	Date, Dec 14, '79.	Proj. N° X827-056-2
Drawing N° NT79-57	Report N°	Lib. N°

131°55' E | 131°57' E | 132°00' E

13°20'S

13°21'S

M.R. 275

E.L. 1094
C.R.A.

RESERVE

POLICY

MT. WELLS

E.L. 2047 — CASEY

C.R.A. EXPLN. P/L.

E.L. 1092

M.R. 564

564

E.L. 2000
ANZECO

13°30'S

13°35'S

Mouse Creek

Frances Creek

Halfway Peak
217

Mount Saunders
307

Dam

5205 5204 5226 5227 5225 5228 5229 5203 5202 5201 5200 5220 5221 5222 5223 5224 5199 5198 5219 5217 5218 5216 5207 5208 5206 5215 5213 5214 5209 5210 5212 5211 5184 5183 5185 5186 5187 5182 5181 5180 5179 5188 5189 5178 5191 5190 6181 6180 5177 5175 5174 6179 5176 5167 5169 5168 5193 5194 6177 6178 6176 5195 6175 5140 6174 6173 5141 5142 5143 6172 6171 5197 5196 5145 5144 5146 5147 5148 5149 5171 5170 5173 5172 5155 5154 5138 6170 6168 6165 6169 6167 5139 5163 5151 5150 5153 5152 5158 5157 5159 5161 5162 5160 5164 5165 5156 5166

TN

MN

True North / Magnetic North deviation is 3°46' easterly — corrected for 1979.
Annual change is 0.1' westerly.

MT MASSON ? UNION REEF MOLINE

Topography from the above preliminary 1:50,000 sheets

● 5229 H.M.C. sample

E.L. Boundary

Minor road

Track

Fence

Samples plotted **Total 108**

5138 = 5229
6165
6167 - 6181

AUSTRALIA AND NEW ZEALAND EXPLORATION COMPANY

E.L. 2094 "FRANCES CREEK" N.T.

HEAVY MINERAL CONCENTRATE SAMPLE LOCATIONS

PLATE 6

Prepared, G.C. Willett, A. Dylewski, J. Hutton.			Drawn, A.L.L.
Scale, 1:50,000		Date, Jan 24, 80	Proj. N° X827-056-2
Dwg. N°, NT80-3		Report N°	Lib. N°

131°55' E
131°57' E
132°00' E
13°20'S
13°21'S
13°30'S
13°35'S

M.R. 275

E.L. 1094
C.R.A.

C.R.A. EXPLN. P/L.

E.L. 1092

M.R. 564

E.L. 2047 — CASEY

E.L. 2000
ANZECO

RESERVE

POLICY

WELLS

MT.

CASEY

Mary River

Frances Creek

Halfway Peak

Mount Saunders
1307

Dam

TN
MN

True North / Magnetic North deviation is 3°46' easterly — corrected for 1979.
Annual change is 01' westerly.

MT MASSON ?

UNION REEF MOLINE

Topography from the above preliminary 1:50,000 sheets

1250 1253

Direction of traverse

Spectrometer reading site - GAD 4. (No.'s 1 to 1253)

AUSTRALIA AND NEW ZEALAND EXPLORATION COMPANY

E.L. 2094 "FRANCES CREEK" N.T.

CARBORNE RADIOMETRICS

Prepared by, E.R.D., B.G.T., D.J.C.		Drawn by, A.L.L.	
Scale, 1:50,000	Date, Dec 19, '79	Proj. N°X827-056-2	
Drawing N° NT79-58	Report N°	Lib. N°	

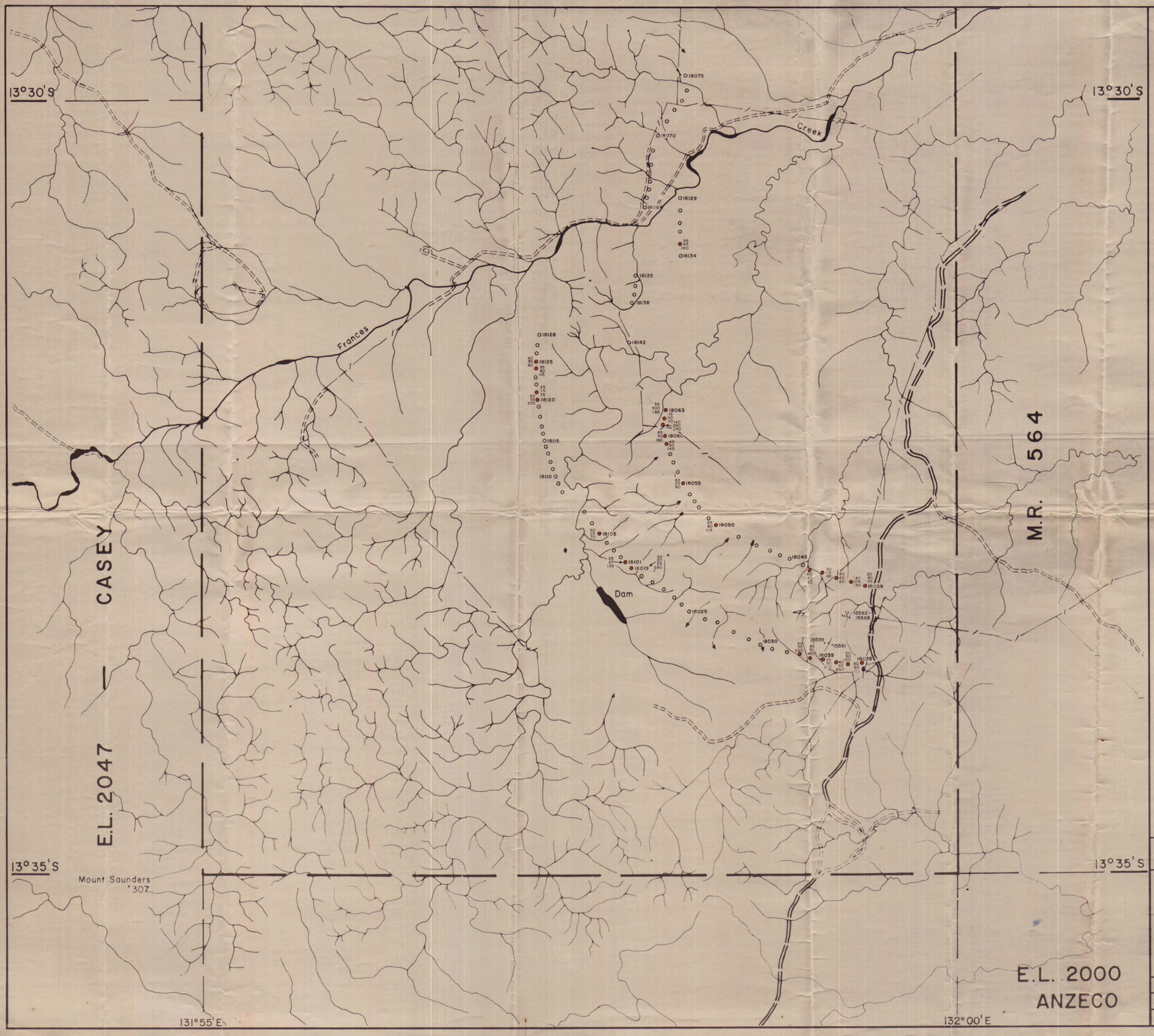
AUSTRALIA AND NEW ZEALAND EXPLORATION COMPANY

E.L. 2094 "FRANCES CREEK" N.T.

CARBORNE RADIOMETRICS

PLATE 7

Prepared by, E.R.Davies, B.G.Taylor, D.J.Crook		Drawn by, A.L.L.
Scale, 1:50,000	Date, Dec. 19, '79	Proj. N°X827-056-2
Drawing N° NT79-58	Report N°	Lib. N°



SAMPLES PLOTTED

18019 – 18075 (57)
18101 – 18138 (38)
15559 – 15561 (10)

Assay in p.p.m.
Copper
Lead
Zinc
Manganese

○ 18142 Soil sample

× 15568 Rock sample

AUSTRALIA AND NEW ZEALAND EXPLORATION COMPANY

E.L. 2094 "FRANCES CREEK" N.T.

SOIL & ROCK GEOCHEMISTRY

PLATE 8

Prepared by, E.R. Davies, B.G. Taylor		Drawn by, A.L.L.
Scale, 1:25,000	Date, Dec. 19, '80.	Proj. No., X827-056-2
Lib. No.,	Report, ERD 12/80	Dwg., NT80-57

1981-13

APPENDIX 1

GEOCHEMICAL ASSAYS - STREAM SEDIMENTS

R W YERBURY
DIRECTOR

BATCH No 241K CLIENT AUST & NEW ZEALAND EXPLORATION CO

ORDER No SDO 00362 AREA PINE CREEK N.T. DATE RECEIVED 31.10.79

SAMPLE TYPE: SOIL STM SED. No 161 DATE COMPLETED 5.12.79

ATTENTION: E R DAVIES

SAMPLE No.	Cu ppm	Pb ppm	Zn ppm	Bi ppm	Mo ppm	Mobile U ppm	Total U ppm	Th ppm	Sn ppm	W ppm
9271	10	60	40	20	5	10	16	64	<5	<10
2	15	30	20	20	10	5	8	24	5	<10
3	20	50	20	15	5	4	4	32	<5	<10
4	15	35	30	15	2	3	<4	36	10	<10
5	10	30	35	20	2	2	4	24	<5	<10
6	20	40	40	15	2	3	4	24	10	<10
7	20	20	50	20	2	2	4	24	5	15
8	10	30	15	15	5	7	16	64	5	<10
9	15	40	40	20	2	4	8	28	<5	<10
80	10	20	10	15	<2	3	<4	24	5	<10
1	25	30	80	20	5	2	4	28	5	<10
2	25	35	20	20	5	3	<4	36	<5	<10
3	10	20	25	15	2	3	8	16	<5	<10
4	10	40	60	20	5	5	12	24	5	<10
5	15	30	50	20	5	2	<4	24	< 5	<10
6	20	30	20	15	2	2	4	40	<5	<10
7	20	35	30	20	2	3	8	16	<5	10
8	20	40	35	20	2	4	8	32	5	<10
9	20	35	20	15	2	3	<4	40	10	<10
90	20	35	30	20	5	2	4	36	<5	<10
1	40	40	30	25	5	7	8	20	<5	<10
2	20	35	30	20	5	3	4	36	<5	<10
3	15	30	30	20	10	2	<4	32	5	<10
4	15	20	20	15	2	3	4	48	10	<10
5	25	30	30	20	2	4	12	24	5	<10
9296	10	25	20	15	2	<1	4	24	10	<10
9305	10	15	10	15	2	1	4	32	10	<10
6	20	20	50	20	5	2	4	40	5	<10
7	105	75	500	35	5	2	8	20	20	<10
8	150	60	210	30	5	9	20	68	<5	<10

NATA

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METHODS: Cu Pb Zn Bi METHOD 1 Mo METHOD 2A
U Th Sn W METHOD 9A (XRF) U (Mobile) METHOD 118 E

G. Lewis

R. W. YERBURY
DIRECTOR

BATCH No. 241K CLIENT AUST & NEW ZEALAND EXPLORATION CO

ORDER No. AREA DATE RECEIVED

SAMPLE TYPE No. DATE COMPLETED

ATTENTION:

SAMPLE No.	Cu ppm	Pb ppm	Zn ppm	Bi ppm	Mo ppm	Mobile U ppm	Total U ppm	Th ppm	Sn ppm	W ppm
9309	70	20	95	20	5	3	8	44	10	10
10	20	20	60	20	2	3	8	32	5	< 10
1	25	20	40	20	2	2	4	16	<5	< 10
2	20	20	10	15	2	1	8	28	<5	< 10
3	20	25	30	15	2	1	< 4	32	5	< 10
4	20	20	10	20	2	1	4	32	5	< 10
5	20	15	10	15	5	2	8	20	5	< 10
6	35	20	20	20	5	3	8	28	<5	< 10
7	20	30	50	15	10	2	4	40	5	< 10
8	20	15	45	20	< 2	1	4	28	<5	< 10
9	15	20	20	20	2	1	8	16	10	< 10
20	30	25	55	15	5	2	4	24	5	< 10
1	20	20	30	15	5	2	8	28	10	< 10
2	15	20	30	15	5	3	8	40	<5	< 10
3	10	40	20	20	5	15	16	68	5	< 10
4	60	50	80	20	5	4	8	44	5	< 10
5	15	40	30	15	5	6	8	68	10	< 10
6S	80	20	40	25	5	3	4	32	15	< 10
7	30	20	15	15	5	2	8	16	5	< 10
8	35	20	60	20	5	4	4	20	<5	< 10
9	25	30	50	20	5	2	4	32	10	10
30	25	20	20	15	5	2	< 4	32	10	< 10
1	40	25	135	25	5	2	12	20	<5	< 10
2	15	20	40	15	2	1	12	56	5	< 10
3	25	40	30	20	5	4	8	60	10	< 10
4	30	50	75	20	2	5	16	80	10	< 10
5	40	55	105	15	5	3	8	24	<5	10
6	30	30	50	20	5	2	8	32	5	< 10
7	25	30	50	20	10	1	< 4	< 4	30	10
8	25	20	20	20	5	2	< 4	32	<5	< 10

NATA

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METHODS:

Signed: G. Amm

R. W. YEERSLEY
DIRECTOR

BATCH No 241K CLIENT AUST & NEW ZEALAND EXPLORATION CO

ORDER No. AREA: DATE RECEIVED

SAMPLE TYPE: No DATE COMPLETED

ATTENTION.

SAMPLE No	Cu ppm	Pb ppm	Zn ppm	Bi ppm	Mo ppm	Mobile U ppm	Total U ppm	Th ppm	Sn ppm	W ppm
9339	30	20	20	15	5	2	< 4	<4	15	30
40	30	15	30	15	5	3	4	28	<5	<10
1	25	20	50	25	5	2	8	32	10	<10
2	20	10	25	15	5	2	4	36	10	<10
3	15	10	20	15	5	1	8	20	<5	<10
4	45	35	40	30	10	2	8	32	10	<10
5	10	10	15	15	2	1	4	24	5	<10
6	35	20	30	30	5	2	8	32	5	<10
7	20	15	20	20	5	2	4	16	5	<10
8	20	20	20	20	2	1	4	32	5	<10
9	20	20	40	15	5	2	< 4	24	<5	10
50	25	20	25	20	2	2	4	32	5	<10
9353-S	20	35	70	15	5	2	4	28	5	<10
9360	10	25	10	10	5	8	8	44	<5	<10
1	10	30	25	20	2	5	8	48	<5	<10
2	15	25	35	15	5	3	4	36	10	<10
3	10	30	20	10	5	4	8	32	5	<10
4	10	30	20	15	10	5	8	52	5	<10
5	40	45	70	25	5	3	8	36	5	<10
6	10	20	10	15	2	1	< 4	36	5	<10
7	15	20	10	15	5	2	8	16	10	<10
8	20	20	10	20	5	2	12	36	5	<10
9	20	25	20	25	2	2	4	28	10	<10
70	25	30	25	15	5	3	< 4	32	5	<10
1	50	40	60	30	2	3	12	24	<5	<10
2	30	30	40	20	5	3	8	24	5	<10
3	30	30	50	20	2	3	4	32	5	<10
4	30	20	40	20	5	3	< 4	36	5	<10
5	20	20	10	10	2	3	12	24	5	<10
6	20	30	20	20	2	4	8	40	<5	<10

NATA

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METHODS.

G. Leeuwen

R. W. YERBURY
DIRECTOR

BATCH No. 241K CLIENT AUST & NEW ZEALAND EXPLORATION

ORDER No.: AREA: DATE RECEIVED

SAMPLE TYPE: No.: DATE COMPLETED

ATTENTION:

SAMPLE No	Cu ppm	Pb ppm	Zn ppm	Bi ppm	Mo ppm	Mobile U ppm	Total U ppm	Th ppm	Sn ppm	W ppm
9377	25	30	55	20	5	2	12	36	5	<10
8	15	20	30	15	5	2	<4	56	5	<10
9	20	30	20	15	5	2	16	56	<5	<10
80	40	20	25	10	10	2	4	36	10	<10
1	45	20	25	15	10	1	4	36	15	<10
2	30	40	60	30	5	1	12	92	10	<10
3	15	40	20	20	5	1	12	48	20	<10
4	5	15	10	5	5	2	4	40	<5	<10
5	15	50	50	15	2	12	16	80	5	<10
6	30	30	20	15	2	4	8	56	20	<10
7	55	60	145	25	5	2	12	28	<5	<10
8	30	40	90	20	10	2	8	24	<5	<10
9	30	30	50	20	5	2	4	32	5	<10
90	30	50	120	15	5	2	<4	32	5	<10
1	50	50	230	20	5	9	12	24	5	<10
2	40	40	70	25	5	1	8	28	10	<10
3	35	35	80	25	5	2	<4	32	15	<10
4	30	40	60	20	5	2	4	32	5	10
5	30	20	50	20	2	1	12	20	<5	<10
6	20	30	20	15	2	5	8	24	<5	<10
7	30	20	70	20	10	2	8	32	<5	<10
8	25	240	195	15	5	4	8	32	<5	<10
9	30	50	260	30	2	1	4	24	<5	<10
9400	15	20	20	15	5	1	4	24	<5	<10
1	15	20	25	10	5	1	8	32	5	<10
2	15	20	20	10	10	1	<4	24	<5	<10
3	10	15	20	10	5	<1	8	20	<5	<10
4	10	15	10	10	10	<1	4	28	<5	<10
5	20	20	40	10	10	1	<4	24	<5	<10
6	25	25	30	20	10	2	<4	32	<5	<10

NATA

This laboratory is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration. This Docu... [illegible]

METHODS:

Signatory

R W YERBURY
DIRECTOR

BATCH No. 241K CLIENT AUST NEW ZEALAND EXPLORATION

ORDER No. AREA DATE RECEIVED

SAMPLE TYPE: No. DATE COMPLETED

ATTENTION:

SAMPLE No	Cu ppm	Pb ppm	Zn ppm	Bi ppm	Mo ppm	Mobile U_3O_8 ppm	Total U_3O_8 ppm	Th ppm	Sn ppm	W ppm
9407	20	20	25	25	10	1	8	8	<5	<10
8	30	25	55	30	2	3	4	12	<5	<10
9	25	20	40	25	5	3	8	16	<5	<10
10	60	50	100	20	5	3	8	20	10	<10
1	30	25	40	15	10	3	8	12	<5	<10
3	20	30	60	15	2	3	8	20	<5	10
4	10	15	10	15	2	1	<4	20	5	<10
5	10	20	20	15	5	1	<4	20	<5	<10
6	15	25	40	15	5	2	8	12	<5	<10
7	20	30	60	20	2	2	8	20	<5	<10
8	20	30	70	20	5	4	4	28	<5	<10
9	15	25	30	15	5	2	<4	32	<5	<10
20	10	20	35	15	5	2	8	14	<5	<10
1	10	20	30	15	<2	4	4	28	<5	<10
2	15	25	15	15	2	5	8	24	<5	<10
3	40	40	20	15	2	7	8	40	<5	<10
4	40	40	80	20	5	3	12	16	<5	<10
5	30	35	60	15	2	3	4	24	<5	<10
6	10	20	20	15	5	1	8	32	<5	<10
7	15	20	15	15	5	2	4	36	<5	<10
8	20	20	25	15	5	1	4	12	<5	<10
9	20	20	30	15	5	1	<4	20	5	<10
30	15	20	20	10	2	1	4	20	<5	<10
1	20	30	20	10	2	2	8	32	<5	<10
2	20	20	30	20	5	1	12	20	<5	<10
3	15	35	30	15	2	3	8	32	10	<10
4	20	30	20	15	2	2	8	32	<5	<10
5	40	25	30	15	2	3	8	32	<5	<10
6	10	20	20	15	5	1	8	32	<5	<10
9437	20	20	35	15	5	<1	12	20	<5	<10

NATA

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METHODS:

Signatory

R. W. YERBURY
DIRECTOR

BATCH No. 241 K CLIENT AUST & NEW ZEALAND EXPLORATION

ORDER No. AREA DATE RECEIVED

SAMPLE TYPE: No. DATE COMPLETED

ATTENTION:

SAMPLE No.	Cu ppm	Pb ppm	Zn ppm	Bi ppm	Mo ppm	Mobile U ppm	Total U ppm	Th ppm	Sn ppm	W ppm
9438	40	60	130	20	2	3	12	28	<5	<10
9	10	20	20	10	5	2	4	28	<5	<10
40	10	20	30	15	2	3	8	16	<5	<10
1	30	20	30	15	5	1	4	16	<5	<10
2	15	20	20	10	5	4	8	16	<5	<10
3	40	30	70	20	5	2	< 4	28	<5	10
4	10	20	20	15	5	4	12	20	<5	<10
5	10	15	15	15	2	1	4	20	5	<10
6	30	30	45	20	10	4	8	24	<5	<10
7	30	20	30	20	5	3	4	24	<5	<10
8	30	20	25	20	5	7	12	12	5	<10
9449	10	10	10	10	2	5	8	24	5	<10

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METHODS:

Signature: G. Lawrence

R W YERBURY
DIRECTOR

BATCH No. L 231 CLIENT AUSTRALIAN & NEW ZEALAND EXPLORATION CO.

ORDER No. SDO-00151 AREA NTH. QUEENSLAND DATE RECEIVED 27.11.79

SAMPLE TYPE SOIL, STREAM SEDIMENT No. 194 DATE COMPLETED 21.12.79

ATTENTION MR. E.R. DAVIES

SAMPLE No.	Cu ppm	Pb ppm	Zn ppm	Bi ppm	Mo ppm	Mobile U ppm	Total U ppm	Th ppm	Sn ppm	W ppm
9410 - 9449	----------SAMPLES NOT RECEIVED----------									
9450	10	35	85	10	2	-1	4	8	-5	-10
51	5	20	35	10	2	-1	-4	12	-5	-10
52	10	30	65	10	5	1	-4	16	-5	-10
53	5	10	30	10	2	-1	-4	20	-5	-10
54	20	30	100	15	2	1	8	8	-5	-10
55	5	15	20	10	2	-1	4	12	-5	-10
56	5	60	180	10	5	2	-4	28	5	-10
57	10	10	15	10	2	-1	-4	24	-5	-10
58	5	30	40	10	2	1	8	36	-5	-10
59	10	25	25	15	5	-1	12	40	5	-10
9460	15	30	15	15	5	2	4	52	5	-10
61	30	40	80	20	10	2	-4	32	-5	-10
62	10	10	15	10	5	1	-4	4	-5	10
63	10	50	10	10	15	-1	8	12	-5	-10
64	20	20	20	15	5	-1	4	20	-5	-10
65	25	25	30	20	10	-1	-4	24	-5	-10
66	15	20	25	15	5	1	8	12	-5	-10
67	10	10	10	15	15	-1	4	8	5	-10
68	25	20	25	20	5	-1	-4	20	-5	-10
69	10	10	2	10	2	-1	-4	24	-5	-10
9470	30	40	70	15	15	1	8	12	-5	-10

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METHODS: Cu, Pb, Zn, Bi BY METHOD 1
Mo BY METHOD 2-A
U (Total), Th, Sn, W BY METHOD 9-A (X.R.F.)
U (mobile) BY METHOD 118-E

Signatory

R. W. YERSBURY
DIRECTOR

BATCH No. L 231 CLIENT AUSTRALIAN & NEW ZEALAND EXPLORATION CO.
ORDER No.: AREA DATE RECEIVED:
SAMPLE TYPE: No.: DATE COMPLETED:
ATTENTION:

SAMPLE No.	Cu ppm	Pb ppm	Zn ppm	Bi ppm	Mo ppm	Mobile U ppm	Total U ppm	Th ppm	Sn ppm	W ppm
9471	20	15	15	10	20	3	4	12	-5	-10
72	10	20	10	10	5	-1	-4	40	-5	-10
73	40	140	290	20	10	1	4	40	5	-10
74	30	30	95	20	10	1	-4	24	-5	-10
75	210	95	25	20	30	4	16	32	15	-10
76	20	25	10	15	2	2	4	48	-5	-10
77	30	35	15	15	5	5	12	56	5	-10
78	70	30	20	15	2	2	8	44	-5	-10
79	70	70	55	40	10	3	8	48	-5	-10
9480	40	65	60	10	10	1	4	20	-5	-10
81	10	15	10	10	10	-1	-4	12	5	-10
82	30	30	25	10	10	-1	8	8	-5	-10
83	30	30	30	15	10	-1	4	16	-5	-10
84	25	20	15	15	5	1	4	16	-5	-10
85	20	25	25	20	2	2	-4	28	5	-10
86	15	20	25	15	2	1	4	8	-5	-10
87	15	20	10	15	5	-1	-4	15	-5	-10
88	10	10	5	10	5	-1	-4	12	-5	-10
89	20	25	30	10	5	1	4	24	-5	-10
9490	10	10	10	10	5	-1	4	4	-5	-10
91	20	20	30	10	10	-1	4	20	-5	-10
92	10	10	30	10	5	1	-4	12	-5	-10
93	10	10	10	10	5	-1	-4	20	5	-10
94	40	20	25	10	20	-1	4	8	-5	-10
95	60	50	35	20	45	-1	4	28	-5	-10
96	30	25	25	20	5	-1	8	20	5	-10
97	35	30	15	15	5	-1	-4	24	5	-10
98	55	20	30	10	10	-1	8	12	-5	-10
99	40	30	30	10	5	-1	-4	20	-5	-10
9500	75	20	15	20	10	1	-4	24	5	-10

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METHODS:

Signatory: G. Lawson

R W VERBURY
DIRECTOR

BATCH No L 231 CLIENT AUSTRALIAN & NEW ZEALAND EXPLORATION CO.
ORDER No AREA DATE RECEIVED
SAMPLE TYPE No DATE COMPLETED
ATTENTION:

SAMPLE No	Cu ppm	Pb ppm	Zn ppm	Bi ppm	Mo ppm	Mobile U ppm	Total U ppm	Th ppm	Sn ppm	W ppm
9501	20	10	15	10	5	-1	-4	20	-5	-10
02	30	20	25	15	5	-1	4	8	-5	-10
03	55	70	150	15	10	2	12	24	-5	-10
04	20	15	15	10	5	-1	-4	16	-5	-10
05	30	20	20	10	10	-1	-4	20	-5	-10
06	20	20	25	10	10	-1	12	8	-5	-10
07	20	20	50	15	5	2	8	28	-5	-10
08	15	25	25	10	5	-1	4	20	-5	-10
09	15	30	25	10	10	1	4	32	-5	-10
9510	10	20	25	10	5	-1	4	16	-5	-10
11	10	30	10	10	5	1	8	20	-5	-10
12	30	30	25	20	10	1	12	28	-5	-10
13	10	20	20	10	5	-1	4	24	-5	-10
14	20	20	20	10	5	-1	4	8	-5	-10
15	30	25	40	20	10	1	8	24	-5	-10
16	5	10	5	10	5	-1	4	20	-5	-10
17	15	15	15	10	10	-1	-4	24	-5	-10
18	10	10	10	10	10	-1	-4	12	-5	-10
19	30	30	30	20	2	1	8	24	-5	-10
9520	10	40	10	20	2	4	8	60	-5	-10
21	5	10	5	10	10	2	4	16	-5	-10
22	15	30	15	10	5	2	4	16	-5	-10
23	20	35	15	20	5	4	4	32	-5	-10
24	20	30	10	15	10	2	-4	24	-5	-10
25	10	30	30	15	5	2	4	40	-5	-10
26	10	30	20	15	5	4	12	44	10	-10
27	10	25	15	15	10	4	8	60	-5	-10
28	20	30	10	10	5	2	4	28	-5	-10
29	20	20	15	10	5	1	4	24	5	-10
9530	25	30	25	15	10	2	12	20	-5	-10

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METHODS:

Signatory G. Lennon

R. W. YERBURY
DIRECTOR

BATCH No. L 231 CLIENT AUSTRALIAN & NEW ZEALAND EXPLORATION CO.
ORDER No. AREA: DATE RECEIVED
SAMPLE TYPE: No.: DATE COMPLETED
ATTENTION:

SAMPLE No	Cu ppm	Pb ppm	Zn ppm	Bi ppm	Mo ppm	Mobile U ppm	Total U ppm	Th ppm	Sn ppm	W ppm
9531	20	20	10	10	5	2	-4	20	-5	-10
32	10	20	5	10	5	1	-4	20	-5	-10
33	20	20	25	15	10	2	-4	32	-5	-10
34	15	25	10	15	5	6	8	20	-5	-10
35	15	20	5	10	5	2	-4	16	-5	-10
36	20	30	10	15	5	4	8	32	-5	-10
37	20	30	25	15	5	4	8	36	5	-10
38	30	80	180	20	2	3	4	32	-5	-10
39	20	40	25	20	5	2	8	28	-5	-10
9540	10	30	10	15	5	4	4	36	-5	-10
41	10	20	10	10	10	2	12	60	5	-10
42	15	30	30	15	5	4	12	24	-5	-10
43	10	20	10	20	10	3	8	68	-5	-10
44	10	30	15	15	10	2	-4	36	-5	-10
45	10	30	15	15	5	3	-4	60	-5	-10
46	15	40	40	15	10	3	4	16	5	-10
47	15	40	35	20	10	2	8	40	10	-10
48	10	40	20	15	5	1	-4	28	-5	-10
49	20	40	70	15	5	1	4	32	-5	-10
9550	20	55	80	15	10	2	8	20	-5	-10
51	15	30	10	15	5	2	4	24	-5	-10
52	10	20	15	10	5	2	4	52	10	-10
53	20	40	25	20	10	3	4	52	-5	-10
54	15	30	25	20	5	2	8	28	-5	10
55	20	40	35	20	5	3	8	36	5	-10
56	15	20	10	10	10	2	4	24	-5	-10
57	15	35	25	15	10	3	8	44	-5	-10
58	10	20	20	20	2	2	12	40	5	-10
59	10	20	5	20	2	4	10	32	-5	-10
9560	15	20	25	15	5	3	-4	40	-5	-10

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METHODS:

Signatory G. Lamm

R. W. YERBURY
DIRECTOR

BATCH No.: L 231 CLIENT: AUSTRALIAN & NEW ZEALAND EXPLORATION CO.
ORDER No.: AREA: DATE RECEIVED:
SAMPLE TYPE: No.: DATE COMPLETED:
ATTENTION:

SAMPLE No	Cu ppm	Pb ppm	Zn ppm	Bi ppm	Mo ppm	Mobile U ppm	Total U ppm	Th ppm	Sn ppm	W ppm
9561	20	10	5	10	10	1	-4	20	5	-10
62	50	20	30	15	10	2	8	12	5	-10
63	30	20	15	10	10	1	-4	16	5	-10
64	20	15	45	10	5	1	4	8	-5	-10
65	60	20	15	10	5	1	-4	24	-5	-10
66	30	25	20	15	5	2	4	8	-5	-10
67	40	20	35	20	5	1	-4	20	-5	-10
68	50	40	30	20	10	1	-4	32	5	-10
69	15	10	10	10	10	1	-4	16	5	-10
9570	10	15	15	10	10	3	-4	12	-5	10
71	20	15	25	10	10	2	4	20	5	-10
72	30	20	35	10	10	2	4	12	-5	-10
73	25	25	15	10	10	3	-4	24	5	-10
74	330	350	260	280	20	5	36	84	-5	-10
75	50	65	180	10	10	4	4	20	5	-10
76	20	15	25	10	5	3	-4	20	-5	-10
77	25	40	70	10	10	3	4	28	5	-10
78	50	90	110	10	10	3	16	32	10	-10
79	40	40	55	15	10	2	4	32	10	-10
9580	30	30	50	10	10	3	-4	24	5	-10
81	20	20	35	10	10	3	4	28	5	-10
82	70	140	540	10	10	10	20	20	-5	-10
87	45	55	200	10	10	7	12	32	5	-10
84	55	90	85	10	10	3	4	24	5	-10
85	30	30	30	10	10	2	-4	12	-5	-10
86	20	35	30	10	10	3	4	8	-5	-10
87	25	95	70	15	5	4	4	28	5	-10
88	15	25	40	15	10	3	-4	16	-5	-10
89	20	45	65	10	10	3	-4	32	-5	-10
9590	20	40	30	10	10	3	8	12	-5	-10

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METHODS.

Signatory: G. Dunn

R. W. YERBURY
DIRECTOR

BATCH No. L 231 CLIENT AUSTRALIAN & NEW ZEALAND EXPLORATION CO.
ORDER No AREA: DATE RECEIVED
SAMPLE TYPE No. DATE COMPLETED
ATTENTION:

SAMPLE No.	Cu ppm	Pb ppm	Zn ppm	Bi ppm	Mo ppm	Mobile U ppm	Total U ppm	Th ppm	Sn ppm	W ppm
9591	30	45	30	10	10	3	-4	32	-5	-10
92	20	25	25	5	10	3	4	32	-5	-10
93	40	100	25	10	10	2	4	36	-5	-10
94	20	30	50	15	-2	4	8	8	-5	-10
95	5	15	40	15	10	7	12	48	-5	-10
96	10	10	30	15	2	2	-4	16	-5	-10
97	20	10	10	10	10	2	-4	24	-5	-10
98	15	15	10	15	20	2	-4	8	-5	-10
99	15	30	15	20	10	2	8	16	5	-10
9600	20	30	10	20	10	2	-4	24	-5	-10
01	20	25	10	20	20	4	4	28	5	-10
02	30	30	35	20	10	2	4	8	-5	-10
03	20	30	35	15	10	2	4	24	-5	-10
9604	45	40	30	20	20	4	8	40	-5	-10

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METHODS.

Signature: G. Lawrence

APPENDIX 2

GEOCHEMICAL ASSAYS - SOIL SAMPLES

AUSTRALIAN LABORATORY SERVICE

CONSULTING CHEMISTS & ANALYSTS

LABORATORY REPORT

Batch No.: F074
Client: A.N.Z. EXPLORATION COMPANY, Arec
Address: G.P.O. BOX 3972,
Date Received 11/06/80
SYDNEY.
Date Completed 07/07/80
N.S.W.

Order No.: SDO 00155
Sample Type:

SAMPLE NO.	U Tot	U	Th	Cu	Pb	Zn	Mn
	m	m	m	m	m	m	m
	118-A	118-D	XRF 1A	1	1	1	1
19	2	<1	8	30	20	25	260
20	1	<1	12	20	15	35	300
21	2	1	12	20	15	35	240
22	1	<1	8	25	15	55	230

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - perc
g - Grams a - Absorbance

S

AUSTRALIAN LABORATORY SERVICES P

CONSULTING CHEMISTS & ANALYSTS

LABORATORY REPORT

_tch No.: F074
_te Received 11/06/80
ate Completed 07/07/80
Order No.: SDO 00155

Client: A.N.Z. EXPLORATION COMPANY,
Address: G.P.O. BOX 3972,
SYDNEY.
N.S.W.

Area Co
Ad

Sample Type:

SAMPLE NO.	U Tot	U	Th	Cu	Pb	Zn	Mn
	m	m	m	m	m	m	m
	118-A	118-D	XRF 1A	1	1	1	1
23	1	<1	8	20	15	40	370
24	1	<1	8	20	15	40	360
25	1	<1	12	25	15	40	95
26	2	<1	12	30	30	40	70
27	2	<1	8	25	15	80	430
28	1	<1	8	30	15	55	440
29	1	<1	12	15	10	65	270
30	<1	<1	12	25	15	30	420
31	<1	<1	8	15	10	60	200
32	<1	<1	4	10	5	15	85
33	1	<1	8	30	35	340	720
34	1	<1	4	45	60	460	0.11
35	1	<1	12	25	50	210	390
36	2	1	16	40	55	250	450
37	1	<1	12	20	30	150	110
38	2	2	16	60	65	100	290
39	2	1	8	25	40	75	200
40	3	2	12	40	105	130	680
41	4	1	28	40	40	20	145
42	6	1	20	90	115	45	110
43	2	1	20	60	30	50	135
44	1	<1	16	25	15	40	200
45	1	<1	16	25	15	25	115
46	2	<1	24	20	25	30	30
47	3	1	32	15	20	30	240
48	3	<1	24	10	25	60	160
49	1	<1	8	10	20	20	110
50	1	<1	16	25	40	115	185
51	2	<1	12	15	15	25	135
52	2	1	12	10	15	10	95

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signa

AUSTRALIAN LABORATORY SERVICES

CONSULTING CHEMISTS & ANALYSTS

LABORATORY REPORT

ch No.: F074 Client: A.N.Z. EXPLORATION COMPANY, Area Cc
Address: G.P.O. BOX 3972, Ac
e Received 11/06/80 SYDNEY,
e Completed 07/07/80 N.S.W.

er No.: SDO 00155 Sample Type:

PLE NO.	U Tot	U	Th	Cu	Pb	Zn	Mn
	m	m	m	m	m	m	m
	118-A	118-D	XRF 1A	1	1	1	1
	1	<1	8	20	15	40	370
	1	<1	8	20	15	40	360
	1	<1	12	25	15	40	95
	2	<1	12	30	30	40	70
	2	<1	8	25	15	80	430
	1	<1	8	30	15	55	440
	1	<1	12	15	10	65	270
	<1	<1	12	25	15	30	420
	<1	<1	8	15	10	60	200
	<1	<1	4	10	5	15	85
	1	<1	8	30	35	340	720
	1	<1	4	45	60	460	0.11
	1	<1	12	25	50	210	390
	2	1	16	40	55	250	450
	1	<1	12	20	30	150	110
	2	2	16	60	65	100	290
	2	1	8	25	40	75	200
	3	2	12	40	105	130	680
	4	1	28	40	40	20	145
	6	1	20	90	115	45	110
	2	1	20	60	30	50	135
	1	<1	16	25	15	40	200
	1	<1	16	25	15	25	115
	2	<1	24	20	25	30	30
	3	1	32	15	20	30	240
	3	<1	24	10	25	60	160
	1	<1	8	10	20	20	110
	1	<1	16	25	40	115	185
	2	<1	12	15	15	25	135
	2	1	12	10	15	10	95

TS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Sign

AUSTRALIAN LABORATORY SERVICE

CONSULTING CHEMISTS & ANALYSTS

LABORATORY REPORT

Batch No.: F074
Client: A.N.Z. EXPLORATION COMPANY, Are
Address: G.P.O. BOX 3972,
Date Received 11/06/80
SYDNEY.
Date Completed 07/07/80
N.S.W.

Order No.: SDO 00155
Sample Type:

SAMPLE NO.	U Tot	U	Th	Cu	Pb	Zn	Mn
	m	m	m	m	m	m	m
	118-A	118-D	XRF 1A	1	1	1	1
53	2	<1	8	15	15	25	85
54	<1	<1	8	30	10	20	65
55	1	<1	16	65	25	80	270
56	2	<1	20	30	20	60	250
57	2	1	16	35	30	80	290
58	3	1	12	25	20	65	470
59	2	1	20	45	50	145	350
60	2	1	12	45	70	160	200
61	4	1	16	140	260	260	330
62	2	<1	12	15	110	110	80
63	3	3	20	35	300	185	195
64	4	1	16	30	25	35	240
65	1	<1	8	10	15	20	260
66	<1	<1	12	10	5	15	175
67	1	<1	16	15	15	50	250
68	<1	<1	16	15	20	45	50
69	2	1	16	20	20	25	390
70	2	<1	20	10	20	60	190
71	1	<1	24	25	15	40	340
72	6	<1	48	30	25	65	300
73	2	<1	24	5	10	20	70
74	3	<1	36	5	15	20	150
75	4	1	52	20	20	20	190
101	2	1	8	25	25	135	350
102	9	5	12	20	15	20	360
103	7	4	16	30	15	50	370
104	2	1	8	35	45	50	390
105	2	2	8	50	25	70	220
106	1	<1	12	10	10	10	250
107	1	<1	12	15	15	20	250

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - perc
g - Grams a - Absorbance

S

AUSTRALIAN LABORATORY SERVICE

CONSULTING CHEMISTS & ANALYSTS

LABORATORY REPORT

Batch No.: F074
Client: A.N.Z. EXPLORATION COMPANY,
Address: G.P.O. BOX 3972,
SYDNEY.
N.S.W.
Area

Date Received 11/06/80
Date Completed 07/07/80

Order No.: SDO 00155
Sample Type:

SAMPLE NO.	U Tot	U	Th	Cu	Pb	Zn	Mn
	m	m	m	m	m	m	m
	118-A	118-D	XRF 1A	1	1	1	1
108	1	<1	20	10	20	35	100
109	<1	<1	8	15	15	20	360
110	1	<1	12	10	10	15	195
111	1	<1	8	10	20	70	250
112	2	<1	8	15	15	25	180
113	2	<1	8	25	15	50	215
114	2	1	8	35	20	65	240
115	1	<1	4	30	25	70	230
116	<1	<1	8	30	20	60	220
117	1	<1	8	20	15	35	170
118	1	<1	4	25	15	45	230
119	<1	<1	8	25	20	45	230
120	2	1	4	50	35	370	0.20
121	2	<1	4	25	15	75	230
122	2	<1	12	25	20	70	230
123	2	1	8	30	20	55	280
124	2	1	16	35	40	115	310
125	2	1	12	40	35	90	310
126	2	<1	12	25	15	40	190
127	<1	<1	12	15	20	60	95
128	2	<1	40	45	20	50	240
129	1	<1	20	10	15	40	95
130	1	<1	20	45	40	50	140
131	1	<1	16	15	40	75	230
132	1	<1	48	10	25	35	240
133	3	<1	16	35	45	160	470
134	1	<1	8	15	15	60	50
135	1	<1	12	10	10	45	30
136	<1	<1	12	10	15	35	150
137	2	<1	12	20	25	85	170

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - perce
g - Grams a - Absorbance
Si

AUSTRALIAN LABORATORY SERVICE

CONSULTING CHEMISTS & ANALYSTS

LABORATORY REPORT

Batch No.: F074

Client: A.N.Z. EXPLORATION COMPANY, Are
Address: G.P.O. BOX 3972,
SYDNEY.
N.S.W.

Date Received 11/06/80
Date Completed 07/07/80

Order No.: SDO 00155

Sample Type:

SAMPLE NO.	U Tot	U	Th	Cu	Pb	Zn	Mn
	m	m	m	m	m	m	m
	118-A	118-D	XRF 1A	1	1	1	1
138	2	<1	12	20	20	50	170

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - perce
g - Grams a - Absorbance

Si

APPENDIX 3

GEOCHEMICAL ASSAYS - ROCK SAMPLES

AUSTRALIAN LABORATORY SERVI

CONSULTING CHEMISTS & ANALYSTS

LABORATORY REPORT

Batch No.: H227

Date Received 22/08/80

Date Completed 05/09/80

Client: A.N.Z. EXPLORATION COMPANY,
Address: G.P.O. BOX 3972,
SYDNEY,
N.S.W.

Order No.: SDO 00306

Sample Type:

SAMPLE NO.	Cu	Pb	Zn	Au	U
	m	m	m	m	m
	1	1	1	120	118-A
15556					95
15557					80
15558					110
15559	10	400	20	<0.1	
15560	110	10	2	<0.1	
15561	65	210	35	<0.1	
15562	165	600	0.18 %	<0.1	
15563	115	240	0.13 %	<0.1	
15564	130	330	0.11 %	<0.1	
15565	45	165	0.11 %	<0.1	
15566	40	125	0.18 %	<0.1	
15567	70	165	600	<0.1	
15568	20	65	60	<0.1	

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - p
g - Grams a - Absorbance

APPENDIX 4

HEAVY MINERAL CONCENTRATES

Sample No.	Grain Count	Other Minerals	Remarks
5138	Nil		Few Heavies
5139	Nil		Few Heaves
5140	0/0/44		Many Heavies
5141	Nil		Few Heavies
5142	Nil		Med Heavies
5143	Nil		Few Heavies
5144	Nil	Few Zircon	Few Heavies
5145	0/0/2	Mod Zircon	Few Heavies
5146	0/0/46	Few Zircon	Few Heavies
5147	0/1/9	Mod Zircon	Few Heavies
5148	0/0/35	Few Zircon	Few Heavies
5149	0/0/35	Few Zircon	Few Heavies
5150	0/0/23	Few Zircon	Few Heavies
5151	Nil	Abun Zircon	Abun Heavies
5152	Nil	Few Zircon	Abun Heavies
5153	Nil	Few Zircon	Abun Heavies
5154	Nil	Few Zircon	Few Heavies
5155	0/1/7	Mod Zircons	Mod Heavies
5156	Nil	Few Zircons	Few Heavies
5157	Nil	Few Zircons	Mod Heavies
5158	Nil	Abun Zircons	Mod Heavies
5159	0/0/3	Mod Zircons	Mod Heavies
5160	0/0/1	Abun Zircons	Abun Heavies
5161	0/0/2	Few Zircons	Mod Heavies
5162	0/0/3	Few Zircons	Mod Heavies
5163	0/0/2	Few Zircons	Mod Heavies
5164	Nil	Mod Zircons	Abun Heavies
5165	Nil	Abun Zircons	Mod Heavies
5166	0/0/3	Abun Zircons	Mod Heavies

P/Con Samples E.L. 2094 (Tungsten)

Sample No.	Grain Count	Other Minerals	Remarks
5167	Nil		Abun Heavies
5168	0/1/11		Abun Heavies
5169	0/1/5	Few Zircons	Abun Heavies
5170	0/0/1		Mod Heavies
5171	0/1/12	Mod Zircons	Abun Heavies
5172	0/0/2		Mod Heavies
5173	0/0/1		Med Heavies
5174	0/0/4	Few Zircons	Med Heavies
5175	Nil	Mod Zircons	Abun Heavies
5176	Nil	Mod Zircons	Mod Heavies
5177	Nil	Few Zircons	Mod Heavies
5178	0/0/4		Mod Heavies
5179	Nil	Few Zircons	Mod Heavies
5180	Nil	Abun Zircons	Med Heavies
5181	Nil	Few Zircons	Few Heavies
5182	Nil	Few Zircons	Mod Heavies
5183	Nil	Mod Zircons	Mod Heavies
5184	Nil		Mod Heavies
5185	Nil		Mod Heavies
5186	Nil		Mod Heavies
5187	Nil	Abun Zircons	Few Heavies
5188	Nil	Few Zircons	Few Heavies
5189	Nil	Few Zircons	Few Heavies
5190	Nil	Abun Zircons	Mod Heavies
5191	Nil	Few Zircons	Mod Heavies
5192	0/0/2	Abun Zircons	Mod Heavies
5193	0/0/3	Abun Zircons	Mod Heavies
5194	Nil	Mod Zircons	Mod Heavies
5195	Nil		Mod Heavies
5196	Nil	Mod Zircons	Few Heavies
5197	Nil		Abun Heavies
5198	0/0/3	Few Zircons	Med Heavies

.../2

5199	0/0/2		Med Heavies
5200	Nil	Few Zircons	Med Heavies
5201	0/0/1	Med Zircons	Med Heavies
5202	Nil	Abun Zircons	Med Heavies
5203	Nil	Few Zircons	Med Heavies
5204	0/0/1		Few Heavies
5205	Nil		Abun Heavies
5206	Nil		Mod Heavies
5207	0/0/1	Abun Zircons	Med Heavies
5208	Nil	Few Zircons	Med Heavies
5209	Nil	Few Zircons	Mod Heavies
5210	Nil	Abun Zircons	Mod Heavies
5211	Nil	Abun Zircons	Abun Heavies
5212	Nil	Many Zircons	Med Heavies
5213	0/0/9	Med Zircons	Med Heavies
5214	0/1/40		Med Heavies
5215	0/1/7	Few Zircons	Many Heavies
5216	Nil	Many Zircons	Abun Heavies
5217	Nil		Few Heavies
5218	Nil	Many Zircons	Mod Heavies
5219	0/0/2	Few Zircons	Few Heavies
5220	Nil	Mod Zircons	Mod Heavies
5221	0/0/1	Few Zircons	Mod Heavies
5222	0/1/2	Mod Zircons	Mod Heavies
5223	Nil	Mod Zircons	Few Heavies
5224	0/0/1	Few Zircons	Few Heavies
5225	Nil		Few Heavies
5226	Nil	Few Zircons	Mod Heavies
5227	Nil	Few Zircons	Few Heavies
5228	Nil		Few Heavies
5229	Nil	Few Zircons	Mod Heavies

Samples - EL 2094 'Frances Creek' N.T.

Sample No	Type	Grain Count	Other Minerals	Remarks.
6165	HM	N'IL		Few Heavies
6166	Soil	~~N'IL~~ —		—
6167	HM	N'IL		Mod Heavies
6168	"	N'IL		" "
6169	"	N'IL		" "
6170	"	N'IL		" "
6171	"	N'IL	Few Zircons	Mod Heavies
6172	"	0/0/1		" "
6173	"	N'IL		" "
6174	"	0/0/2		" "
6175	"	N'IL	Mod Zircons	" "
6176	"	N'IL	Few "	Many Heavies
6177	"	N'IL		Mod "
6178	"	N'IL	Few Zircons	" "
6179	"	0/0/1	" "	" "
6180	"	N'IL	" "	" "
6181	"	0/0/1		Few Heavies

R. W. YERBURY
DIRECTOR

6 K — CLIENT: AUSTRALIAN & NEW ZEALAND EXPLORATION

ORDER No. — AREA — DATE RECEIVED

SAMPLE TYPE — No. — DATE COMPLETED

ATTENTION:

SAMPLE No.	W ppm
5136	210
37	140
38 (FRANCES CREEK)	60
39	90
5140	100
41	30
42	70
43	20
44	30
45	20
46	40
47	20
48	-10
49	20
5150	60
51	50
52	60
53	80
54	280
55	220
56	80
57	110
58	160
59	550
5160	340
61	INSUFFICIENT SAMPLE
62	570
63	90
64	840
5165	70

NATA

METHODS

R. W. YERBURY
DIRECTOR

BATCH No. 6 K CLIENT A.N.Z. EXPLORATION

ORDER No. AREA: DATE RECEIVED

SAMPLE TYPE No. DATE COMPLETED

ATTENTION

SAMPLE No	W ppm
5166	720
67	170
68	110
69	130
5170	140
71	150
72	160
73	I.S.
74	I.S.
75	60
76	70
77	120
78	40
79	110
5180	150
81	60
82	I.S.
83	100
84	90
85	40
86	280
87	I.S.
88	30
89	50
5190	100
91	I.S.
92	60
93	I.S.
94	30
5195	20

NATA

METHODS:

R. W. YERBURY
DIRECTOR

6 K — CLIENT: A.N.Z. EXPLORATION

AREA — DATE RECEIVED

No: — DATE COMPLETED

SAMPLE No	W ppm
5196	30
97	50
98	I.S.
99	40
5200	40
01	180
02	I.S.
03	80
04	20
05	110
06	90
07	160
08	I.S.
09	40
5210	210
11	70
12	80
13	50
14	230
15	170
16	610
17	40
18	200
19	130
5220	50
21	120
22	240
23	90
24	60
5225	I.S.

NATA

METHODS.

R W YERBURY
DIRECTOR

BATCH No. 6 K CLIENT A.N.Z. EXPLORATION

ORDER No. AREA DATE RECEIVED

SAMPLE TYPE No. DATE COMPLETED

ATTENTION:

SAMPLE No	W ppm
5226	210
27	220
28	20
5229	190

METHODS:

G. Quinn

APPENDIX 5

SPECTROMETER RESULTS

FRANCIS CREEK EL 2094.

No.	Tc	K	U	Th	30 second counts
1	293·6	4·4	1·0	2·1	from scrape in sediments,
2	436·8	11·5	1·1	2·8	drainage from granites (ac 9300 K)
3	345·4	6·9	1·4	2·6	gully between hill of granite & sds
4	187·8	3·2	0·4	1·5	area of qtzite, shale, & horneflels float
5	152·2	3·0	0·6	0·8	Alluvium near river channel, in sediments
6	157·2	2·1	1·1	0·7	riverbank of sds (qtzite)
7	219·0	5·2	0·9	1·3	alluvial flat, with schists, qtzite etc
8	191·6	2·6	1·0	1·1	alluvial area between sed hill & qtzite bench
9	271·7	3·2	1·1	2·2	sds, black shale & qtzite on spur
10	171·9	3·1	0·5	1·0	alluvial at base of sed hill.
11	158·5	3·0	0·6	1·0	Alluvium, + schist, gorse near a creek
12	206·3	2·7	1·8	0·9	float on slope of hill, schists & qtzites
	210·2	3·3	0·9	1·2	
13	255·7	5·2	1·4	1·6	riverbed, between sedimentary hills.
14	183·9	2·7	0·7	1·1	in flat riverbed draining qtzite
15	230·1	4·2	0·9	1·7	ridge between rivers, horneflels float
16	182·7	2·3	1·7	1·2	ridge between rivers, qtzite float
17	172·5	2·0	1·0	1·1	gorge, draining conglomerate & qtzite
18	172·2	2·2	1·2	1·3	junction of 2 rivers, mudstone o/c
19	170·0	2·4	0·5	1·3	riverbank, alluvium, beds o/c
20	228·6	3·4	1·1	1·4	riverbank, draining sed hill
21	232·9	3·2	1·4	1·9	in riverbed, draining sed hill
22	189·5	3·9	0·5	1·1	riverbed draining sed hills

2094 / 2

No	Tc	K	U	Th	30 second counts
23	172·1	2·2	0·4	1·4	Alluvial flat, between rivers draining Sed hills east of large hill. Point of Tc kick, ⇒ probable granite contact, + ? Syenite o/c
24	430·0	11·6	1·3	3·2	coarse grained grey & white bio granite o/c
25	500·2	6·9	2·0	3·4	with fine grained ? Syenite dyke
26	499·3	11·6	1·8	3·6	Alluvium near creek & old road, no o/c
27	349·7	13·3	0·4	2·2	bank of river near main road, no o/c
28	453·3	9·2	1·7	3·4	Alluvial flat, coarse grained white bio granite o/c
29	479·3	10·1	1·8	3·6	foot of hills, granite o/c
30	303·8	7·1	1·1	1·6	top of hill, sedimentary float
31	240·2	5·5	1·1	1·8	in riverbed, sedimentary float
32	213·8	2·5	1·2	1·4	riverbed, above dk river gravels (Sed)
33	152·0	0·5	1·1	0·8	sedimentary rocks very iron stained, Ironstone at top of hill
34	189·2	3·5	0·8	1·0	base of ridge near river in float
35	255·2	4·2	1·8	1·3	top of creek draining south
36	214·7	4·2	1·1	1·2	in bed, draining Conglomerate & black shale
37	201·8	2·7	0·9	1·0	in creek, no o/c
38	66·5	3·0	0·4	1·4	qtzite (Fe stained & banded) ridge
39	158·6	2·9	1·0	0·9	Creek bed draining qtzite, shale ←
40	150	2·1	0·7	1·1	near creek, graphitic schist o/c
41	175·1	2·4	1·3	0·9	flat area of alluvium no o/c
42	168·2	1·8	1·1	1·1	as above
43	160·1	2·0	0·6	1·4	as above
44	154·6	4·6	0·6	0·6	as above
45	207·9	3·5	0·8	1·4	in bed of river, conglomerate o/c.

2094/3.

No.	Te	K	U	Th	Ex. record (cont.)
46	317·1	6·2	1·2	2·1	granite contact, alluvial area at river
47	621·9	4·1	2·0	5·5	near riverbed, med grained white & green fsp granite o/c (grab)
48	469·4	9·0	1·1	3·5	flat area of alluvium, no o/c
49	287·8	6·7	1·4	1·4	ridge between rivers. Fe stained qtzite o/c
50	221·9	2·1	1·2	1·8	flat area of alluvium no o/c
51	159·7	2·3	0·9	1·0	flat area, with seds & a qtz + ? talc vein.
52	189·9	2·9	1·3	1·0	in riverbed, no o/c
53	212·8	3·5	1·0	1·4	alluvial flat, no o/c
54	212·4	2·0	1·6	1·1	on a ridge no o/c
55	296·8	5·2	1·1	2·0	in riverbed, no o/c
56	406·6	3·7	2·3	3·3	as above st soil 4300
57	220·2	2·8	1·2	1·3	as above
58	238·9	2·2	2·0	1·1	alluvial flat, muddy, no o/c
59	162·5	2·8	1·1	1·2	as above
60	147·7	1·7	0·9	1·1	alluvial flat near riverbed, no o/c
61	207·6	2·9	0·9	1·4	in riverbed, muddy, no o/c
62	165·2	1·5	0·8	1·5	alluvial flat, no o/c
63	163·1	1·9	1·5	1·0	hill, rocks exhibit Fe enrichment
64	181·1	2·7	1·1	0·9	in gully at junction of creeks draining seds
65	190·3	3·8	0·6	1·5	river gravel bank near junction of rivers
66	172·7	2·1	1·0	1·2	alluvial plane, no o/c
67	204·8	3·7	0·8	1·2	black shale float, foot of hill
68	222·3	4·5	1·0	1·6	shale, qtzite float, on hill.

2094 /4

					30 SECOND COUNTS
NC	Tc	K	U	Th	
69	2041	4·0	0·9	1·2	shale, qtzite, ironstone hill
70	2884	6·3	1·4	1·9	hornefelsed shales & qtzites float a hill
71	3283	6·6	1·7	1·5	qtzites & hornfels float at foot of hill
72	4271	8·9	1·1	3·4	alluvium near riverbed, granite o/c
73	3641	9·9	1·4	2·0	alluvial area near riverbed, granite o/c
74	2950	1·8	2·5	1·8	a qtz lense inside sediment
	2579	2·9	1·8	1·6	
75	2157	5·0	0·9	1·2	at the top of hill qtzite & shale float
76	2281	4·9	1·0	1·2	valley, conglomerate o/c qtzite float
77	1746	2·2	0·6	1·3	alluvium at end of dam
78	1379	2·2	0·8	1·3	alluvium near riverbank, no o/c
79	1826	1·5	1·0	1·3	flat alluvial area no o/c
80	1561	2·3	0·8	1·4	alluvial outwash area near river
81	1734	2·9	0·9	0·5	alluvial valley with qtzite float
82	2279	4·2	0·9	1·6	qtzite float ridge
83	1284	1·2	1·0	0·6	alluvial plain, qtzite float
84	1960	1·0	1·3	1·5	as above
85	2170	4·5	1·3	1·0	muddy creek bed, qtzite float
86	2244	4·5	1·1	1·0	foot of hill, qtzite float
87	1578	1·7	0·7	1·1	near river on alluvium no o/c
88	1777	1·0	1·2	1·3	Alluvial plain, no o/c
89	1384	0·6	1·3	0·7	as above, schist, qtzite float
90	1712	2·7	0·7	1·3	as above.

2094/5

No	Tc	K	U	Th	30 Second Counts
91	182·4	3·9	0·9	1·3	Creek bed, no o/c
92	165·7	3·6	0·9	1·0	base of seed hill
93	233·4	5·4	0·6	1·4	base of seed hills
94	225·0	3·1	0·5	2·3	flat alluvial area, no float or o/c
95	197·6	0·7	1·4	1·1	as above, near Calc silicate + epidote + Talc o/c
96	170·5	0·6	0·7	1·8	as above, near mudstone o/c
97	164·1	2·5	0·5	1·5	flat area near river
98	156·0	3·7	0·8	0·6	flat area at base of hill draining Fe. hill
99	228·5	3·5	1·3	1·5	in riverbed, qtzite float, draining seed hills

GRID 4 readings — Contd from other book, EL - 2094100

100	154·3	2·9	0·8	1·0	alluvial area, some quartzite float
101	247·9	2·2	1·5	2·0	alluvial area, no float
102	215·5	1·3	1·5	1·1	as above, shattox float
103	156·5	1·2	1·0	1·2	as above mudstone, chert float
104	111·0	1·8	0·5	1·0	as above, crenulated schist
105	164·5	2·7	0·7	1·5	as above
106	165·0	2·5	0·6	0·7	as above, qtzite float
107	173·6	4·9	1·0	0·6	gully draining Fe stained qtzite
108	130·0	1·9	0·3	0·8	alluvium
109	137·1	1·7	0·6	1·6	near river, alluvial area, Calc silicates nearby
110	155·5	1·4	0·9	1·2	alluvium (clay) Calc silicates, & ? laterite nearby
111	217·6	7·3	0·7	1·0	hornefelsed 'greywacke' (often Fe stained) float
112	192·3	4·5	1·0	1·2	valley thru' alluvium, no o/c
113	263·0	7·4	0·6	1·6	river gully, hornefelsed schist float
114	249·2	5·4	1·0	1·2	hilltop, hornefelsed mudstone, qtz float
115	179·6	4·4	0·9	0·8	alluvial valley, no float
116	165·4	4·0	1·0	0·9	alluvium in river bed.
117	163·2	1·4	0·6	1·3	Calc silicate o/c
118	162·7	2·6	1·1	1·0	alluvium, no o/c
119	151·5	2·7	0·8	0·9	foot of hill, qtz, qtzite hornefelsed shale float
120	148·3	3·4	0·5	0·9	old river gravels on ridge
121	258·9	4·6	1·1	1·6	gravelly area, draining qtzite ridge
122	171·3	1·8	0·5	1·3	river bank of Francis creek
123	159·5	2·8	0·9	0·9	alluvium near Francis creek conglomerate o/c
124	80·2	1·5	0·4	0·6	Fe stained shales & alluvium (? laterite)
125	129·6	2·3	0·5	0·9	alluvium no float
126	158·0	1·3	1·6	1·4	as above

	Tc	K	La	Th	30 Second Counts	EL 2094 99
127	112·7	1·4	0·3	0·9	alluvium, stone, transient float	
128	172·8	4·5	0·8	0·9	riverbed, no o/c	
129	227·5	4·4	1·1	1·5	alluvium in river bed	
130	160·0	4·7	0·7	0·6	ridge of alluvium draining qtz lense	
131	126·6	1·2	0·7	0·9	riverbed draining qtzite hill	
132	136·6	3·0	0·5	0·7	riverbed, ie graphitic schist, Fe stone on ridge	
133	165·0	2·2	0·3	1·6	on riverbank of francis creek, no o/c	
134	104·4	0·9	0·7	0·8	flat alluvial area. no float	
135	113·0	1·3	0·5	0·9	no above qtzite float	
136	131·9	1·2	0·6	0·8	in riverbed, qtzite float	
137	213·1	5·3	0·5	1·5	alluvium. no float	
138	15·4	0·7	1·7	1·1	near river qtzite float	
139	136·2	1·9	0·6	0·4	alluvial area, qtzite o/c	
140	278·5	4·7	1·0	2·0	in riverbed, draining qtzite hills	
141	129·9	1·1	1·3	1·1	function of creeks, muddy no float	
142	124·0	2·3	0·2	1·0	alluvial flat near river, Fe stone cap	
143	108·0	1·0	0·3	1·2	flat area, horneflsed qtzite float	
144	183·5	2·4	1·1	1·4	riverbank, qtzite float	
145	183·1	3·8	0·9	1·1	flat area near francis creek, no o/c	
146	36·6	2·4	0·8	3·3	flat area of clay + granule alluvium	
147	357·6	7·5	0·4	3·2	as above, near creek, granite float	
148	207·4	5·3	0·6	1·3	muddy ~~clay~~ + sandy alluvium, granite o/c	
149	373·1	11·9	1·1	2·0	as above, fine grained grey top granite	
150	370·1	11·2	0·6	2·7	as above	
151	337·7	8·3	1·1	2·1	roadside, coarse grained white top granite o/c	
152	319·6	9·7	0·8	2·1	silty riverbank near river, granite o/c as above	
153	217·6	4·6	1·0	1·4	silty alluvial area, no o/c	

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No	Tc	K	U	Th	30 second Counts
154	290·4	11·5	1·1	2·5	alluvial area near river, granite o/c
155	217·6	7·6	1·0	1·4	hilly alluvial area, granite o/c
166	251·2	8·0	0·3	1·2	alluvial area near granite o/c
157	181·9	4·0	0·4	0·9	biotite rich fine grained melanocratic granite o/c
158	269·2	10·2	0·8	2·9	alluvium, near Creek, granite o/c
159	306·6	9·8	0·5	1·5	as above
160	362·9	8·6	0·8	3·3	as above
161	259·1	6·9	0·8	1·4	as above
162	331·5	5·4	1·1	2·5	as above, medium grained white granite
163	221·0	4·6	0·6	1·4	alluvium no o/c
164	191·5	3·2	1·3	0·7	alluvium near river, no o/c
165	235·6	3·6	0·9	1·6	alluvium, no o/c
166	187·5	3·5	0·9	1·4	riverbank of Frances Creek granite o/c
167	157·0	4·6	0·6	0·7	riverbank of Frances Creek, no o/c
168	213·0	5·3	1·2	1·1	alluvium, no o/c
169	257·0	4·2	0·9	1·5	as above
170	172·9	2·7	0·6	1·4	alluvium, riverbank of Frances Creek
171	193·5	5·5	0·4	1·0	alluvium, 2 granite types o/c
172	248·3	6·8	0·6	1·4	alluvium, no o/c
173	35·0	8·3	0·2	2·8	coarse & fine granite o/c
174	93·9	2·4	0·7	0·1	fine grained granite o/c
175	272·3	6·3	0·2	1·9	fine grained granite o/c
176	289·6	8·8	0·6	1·5	fine grained granite o/c
177	170·4	4·4	0·8	0·6	alluvium near ? contact/dyke rock (9557 R)
178	202·6	6·2	0·9	1·2	as above
179	256·4	7·1	0·9	1·7	alluvium, Coarse grained granite o/c nearby
180	557·8	12·8	0·7	1·8	alluvium, fine grained granite o/c nearby

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No	Tc	K	U	Th	
181	461·3	9·2	1·6	3·3	depression in fine grained granite hill
182	293·8	5·5	0·7	2·2	fine grained granite o/c near road
183	343·3	9·0	0·9	2·3	as above.
184	343·2	9·5	1·1	1·9	junction of creeks, fine grained granite nearby
185	227·6	4·5	0·7	1·3	alluvial area, fine grained granite nearby
186	133·0	3·2	0·6	0·6	as above
187	278·8	7·5	1·0	2·2	near a river, fine grained granite o/c
188	207·3	3·9	1·0	1·3	flat alluvial area, granites & ?meta sed o/c
189	166·7	3·1	0·7	1·2	flat swampy area, qtzite float
190	178·9	4·9	0·8	1·2	flat alluvial area, qtzite float
191	354·3	9·3	1·7	2·7	granite contact. - in riverbed
192	302·8	8·1	0·3	2·5	alluvium, near river, no o/c
193	295·1	7·4	0·5	2·5	granite o/c
194	135·9	5·8	0·9	1·2	area of sedimentary float & alluvium
195	387·2	5·2	1·5	1·6	base of hills - alluvial area
196	314·4	7·4	1·1	2·1	base of hills, alluvium & granite o/c
197	268·9	6·5	0·4	2·3	alluvial area, granite o/c with leucogranite stringers
198	256·9	3·5	1·1	1·5	edge of dry swamp, muddy, granites nearby
199	280·2	7·5	0·5	2·2	as above
200	267·0	9·0	0·7	1·2	near junction of creeks, alluvium, no o/c
201	247·4	5·6	0·8	1·9	alluvium no o/c
202	198·3	3·3	1·1	1·2	as above
203	307·4	8·6	0·9	1·6	alluvium near granite hill
204	329·9	9·3	1·7	2·9	alluvium & granite o/c qtz & qtzite float
205	253·2	8·2	0·5	2·5	alluvium near river no o/c.
206	233·4	5·5	0·6	1·2	alluvium, with granite + Meta qtzite o/c
207	211·6	4·2	0·7	1·5	alluvium.

NO	Tc	A	U	Th	Sheet Creek CC 20961
208	240·1	7·2	0·9	1·5	alluvium
209	306·0	3·5	1·7	1·9	base of sed hills, qtzt, qtz, graphitic shale float
	309·2	4·4	1·9	1·7	Fe enriched in places.
210	266·3	3·4	2·0	1·4	base of hills qtzite float
211	229·9	6·0	1·1	1·4	alluvium
212	251·5	5·3	0·8	1·7	alluvium near river
213	196·9	5·0	0·5	1·5	outcrop of ? hornblende hornfels (93577R) ~~andesite~~, (or dacite rock)
214	131·1	7·8	0·3	0·7	as above
215	215·3	7·7	0·5	1·4	granite o/c?
216	306·3	10·4	0·9	2·0	river bank, granite o/cs.
217	372·6	7·6	0·8	2·3	sheared dolomite, granite, no o/c
218	179·3	4·7	0·1	1·4	silty alluvial area, no o/c
219	141·7	2·6	0·5	0·9	near 93577R type rock o/c
220	272·5	10·6	0·6	1·9	as above
221	257·7	5·1	1·8	1·3	near granite o/c, ? hornblende rich
	257·9	5·9	0·9	1·6	
222	253·4	8·3	0·7	1·2	alluvium, some hornfels float
223	274·0	6·9	0·9	1·3	area of mixed river gravels
224	286·9	7·7	0·8	1·5	fine grained m-qtzite o/c
225	293·2	7·1	1·7	1·5	river gravels
226	190·1	2·4	0·7	1·2	alluvium near river, qpartzite float
227	314·2	7·5	1·4	2·0	alluvium with granite o/c
228	226·8	5·3	0·7	1·4	as above
229	217·6	4·3	0·7	1·5	ridge with qtzite float
230	331·9	4·9	1·4	2·2	foot of hill, hornfelsed black shale o/c
231	242·3	5·8	0·8	1·4	alluvium, with granite o/c
232	164·6	3·1	0·4	1·3	alluvium near river, no o/c

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No	Tc	K	U	Th	
233	119.8	3.2	0.5	1.1	alluvium near river, no o/c
234	195.3	4.3	0.8	1.1	alluvium, no o/c
235	383.1	8.7	1.0	3.1	Porphyritic, microcrystalline granite in contact with blue ... fine grained granite & Stringers (Xenoliths of Dolerite in 1st granite)
236	248.3	6.4	0.6	1.5	riverbed at base of sedimentary hills, hornfelsed qtzite float, Stringers qtz rock & Fe stone
237	334.7	9.1	1.7	1.8	riverbed, qtzite float, draining hills
238	246.0	7.3	0.8	1.1	edge of swamp no o/c
239	188.9	2.9	1.2	1.1	alluvium, fine grained granite o/c
240	77.9	1.5	0.5	0.4	on river bank no o/c.
241	191.6	4.4	0.9	0.9	on river-bank no o/c
242	175.5	3.5	0.7	1.1	alluvial flat, no o/c.
243	285.1	6.7	1.3	1.2	as above
244	233.9	3.5	1.4	1.3	bank of Francis Creek, o/c of qtz & Fe stone
245	232.6	4.0	1.2	1.4	on ridge of sediments, quartzite float
246	177.6	2.9	0.9	1.3	in riverbed, o/c of hornfelsed mudstone
247	240.7	4.2	1.5	1.1	in creek bed, Fe stone o/c nearby
248	246.0	5.7	1.0	1.5	hornfelsed mudstone float
249	205.4	5.0	0.5	1.2	alluvium, qtzite, black shale float.
250	212.9	3.6	1.7	1.3	alluvium, in creek bed, no o/c
251	145.5	3.8	0.8	0.7	riverbank, gravels of qtzite, hornfelsed mudstone ~~etc~~
252	124.6	2.0	0.7	0.6	qtz, basalt, Iron rich hornfels float
253	123.6	1.9	0.3	0.9	alluvium.
254	128.2	2.0	0.5	0.9	alluvium
255	134.6	2.3	0.5	1.0	alluvium. ~~of~~ quartz float
256	142.6	1.3	0.7	1.1	alluvium
257	218.5	3.3	1.2	1.2	in creek, black shale float
258	100.9	1.3	0.5	0.6	alluvium
259	130.2	3.0	0.8	0.6	alluvium (Fe rich) shale float.

No	Tc	K	U	Th	30 Second Count I EL 2094
260	130·2	3·0	0·8	0·6	alluvium
261	146·7	3·7	0·7	0·7	~~quartz & qtzite float on ridge~~ alluvium
262	155·8	4·6	1·0	0·5	quartz & qtzite float on ridge
263	136·6	4·3	0·4	0·7	quartz reef, quartzite float
264	158·2	3·4	0·5	0·9	alluvial float
265	147·5	2·8	1·1	0·7	alluvium near creek, at base of qtzite ridge
266	150·9	3·6	0·9	1·0	on ridge, quartzite float
267	133·5	3·1	0·6	0·7	qtz float on ridge
268	133·3	2·9	0·2	1·3	as above
269	146·9	3·0	0·7	1·1	ridge riverbed (muddy) with qtzite float
270	121·4	3·3	0·6	0·7	Iron impregnated qtz reef o/c
271	128·0	3·7	0·2	0·7	alluvium, no float
272	104·3	1·7	0·6	0·7	Iron impregnated qtz reef o/c
273	129·3	2·3	0·5	1·1	muddy - gravelly (qtz) Fe stained alluvium
274	130·2	3·7	0·4	0·9	hill, shale float
275	134·0	3·5	0·6	0·6	~~hill with Fe stained qtzite float~~ alluvium
276	134·0	3·6	0·2	1·0	hill with Fe stained quartzite float
277	310·2	7·0	1·0	1·5	base of hill, quartzite float
278	254·4	5·2	0·7	1·8	edge of hill, quartzite float
279	114·2	2·1	0·7	0·5	hill, o/c of quartzite
280	259·2	5·8	1·3	1·8	riverbed, no o/c
281	243·9	4·5	0·8	1·3	in large riverbed, at base of red hill
282	320·3	6·1	1·1	2·3	on a ridg, black shale float
283	122·7	2·8	1·0	0·5	on a ridg, qtzite, black shale o/c
~~284~~	120·9	3·5	0·4	0·8	
284	228·6	5·1	0·7	1·7	junction of creeks, qtzite float
285	246·4	4·5	1·0	1·6	on top of ridge, o/c qtzite

N°	TC	A	L	Th	
286	195·2	5·0	0·5	1·2	base of qtzite hill, shale float
287	118·4	2·1	0·6	0·8	qtz reef, qtzite + shale float
288	136·0	3·0	0·7	1·0	qtzite + black shale float
289	107·8	1·1	0·8	0·5	qtzite float, alluvium
290	127·0	2·4	0·3	0·6	alluvial bed, qtzite o/c
291	190·4	5·4	0·8	0·9	on a hill — qtzite o/c (getting more muddy) to NW
292	251·3	6·2	0·5	1·8	foot of hill, qtzite float
293	130·4	3·1	0·6	0·6	[illegible] qtzite float
294	280·0	6·8	1·6	1·7	top of hill, qtzite gravels
295	206·0	6·8	0·6	0·9	[illegible]
296	138·9	3·7	0·6	0·8	o/c of sandy mudstone on hill
297	245·9	5·4	0·8	1·7	sandy mudstone
298	152·6	4·1	0·4	0·9	qtzite float
299	249·7	7·4	0·4	1·7	top of hill, shale float
300	185·2	5·0	0·4	0·7	alluvium, no float
301	168·3	4·0	0·8	0·7	o/c of (low fsp, high quartz) biotite, granite(?)
302	130·6	2·7	0·4	0·8	as above
303	121·8	3·4	0·3	0·4	[illegible] qtzite o/c, qtz + qtzite float
304	136·9	3·1	0·7	0·9	alluvium - no float.
305	114·0	2·5	0·9	0·8	as above
306	163·8	1·8	1·0	0·8	qtz reef (float)
307	140·7	1·6	0·9	0·8	alluvium, no o/c
308	156·6	4·1	0·5	0·8	creekbed, no o/c
309	170·7	2·5	0·3	1·2	bank of [illegible] creek, qtzite float
310	210·5	3·8	0·8	1·3	alluvium no float
311	187·7	4·1	0·7	1·3	alluvium, qtz + qtzite float

No.	Ft	L	W	Th	Description
312	144-[illegible]	2-[illegible]	[illegible]7	0-7	[illegible]
313	312-7	7-4	0-4	2-1	fine grained sltst [illegible] o/c
314	274-0	5-6	1-0	1-3	top of hill, fine grained mudstone float
315	456-0	9-1	1-5	2-0	o/c of fine grained sltst, granite, + qtzite float
316	2[illegible]-3	2-3	1-4	2-9	granite o/c
317	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] granite, qtzite float
318	[illegible]	[illegible]	[illegible]	[illegible]	
319	27[illegible]	7-5	0-7	1-7	top of hill, o/c of [illegible] spotted hornfels (diorite)
319	253-3	5-3	0-9	1-3	[illegible] schist
320	157-1	4-2	0-8	0-7	siltstone, fine grained, no o/c
321	174-9	2-2	1-4	0-8	siltstone, no o/c
322	[illegible]	[illegible]	0-2	0-6	[illegible] schist
323	[illegible]	[illegible]	1-6	1-5	siltstone (F. stained), qtz float
324	225[illegible]	[illegible]	0-5	1-2	siltstone, no float
[illegible]	[illegible]	[illegible]	[illegible]7	[illegible]	[illegible] siltstone, no float
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] schist
327	157-5	2-4	0-7	1-1	siltstone, qtzite, black chert float
328	121-7	1-6	0-[illegible]	1-2	Fe stained siltstone
329	145-5	2-6	0-5	0-9	siltstone, no float
330	153-6	2-1	0-7	1-2	siltstone, qtzite float
331	139-5	4-5	0-7	0-5	siltstone, marcasite, no o/c
332	123-6	3-8	0-6	0-1	siltstone, qtzite float
333	159-4	5-7	0-7	0-8	marcasite o/c of sandstone
334	14-4	2-3	0-4	0-1	siltstone, qtz veining
335	281-4	8-2	0-7	1-6	qtzite float + o/c (rich muddy grained) sericite
336	155-7	2-0	0-7	0-9	top of hill, muddy qtzite float
337	161-3	3-4	0-6	1-0	as above

No.	Tc	K	U	Th	Description
338	221	6.3	0.7	1.4	base of hill, no creek, granite float
339	265	8.3	0.9	1.3	alluvium, Granite o/c no float
340	251	4.1	1.1	2.1	alluvium no o/c
341	285	2 4.9	0.9	2.1	as above
342	420	6.7.1	1.5	3.6	edge of swamp, granite o/c
343	260	6.9	1.0	2.4	alluvium near creek no o/c
344	203	9 3.2	0.8	1.7	bank of Francis Crk no o/c
345	210	0 4.0	1.0	1.4	bank of Francis Crk. granite o/c
346	267	2 3.5	1.1	2.2	alluvium no o/c
347	256	5 7.5	0.9	1.3	granite o/c, no float Alluvium.
348	247	3 7	1.1	1.9	no float o/c. near crk - alluvium.
349	342	9 0	1 3	2.2	o/c of biotite rich fine grain + granite.
350	349	9 1	0.6	1.5	Granite o/c
351	216	2 4 8	0	1.5	No float, granite o/c, alluvium
352	272	2 6 9	0.2	1.8	alluvium near river, granite o/c
353	234	9 5.1	0.6	1.3	alluvium granite o/c sand float
354	325	4 6 8	1.6	2.0	Amphibolite o/c (?)
355	265	8 8.1	0 5	1.4	outcrop of granite
356	220	8 7.4	0 5	1.2	alluvium, granite o/c
357	255	6 3.7	1.1	1.2	alluvium, no o/c
358	324	7 16 9	0 4	2.2	granite o/c.
359	332	6 13 3	0.6	2.8	base of Granite hill.
360	303	0 10 1	0.9	1.4	granite o/c's
361	364	2 9 0	1 3	1.5	as above
362	197	6 6 6	0.6	1.0	as above
363	266	4 7.7	0.3	2.3	as above (with alluvium.)
364	227	3 5.9	0.6	1.3	granite o/c nr/by alluvial area or creek

#	Tc	K	U	Th	Second Counts EL 2094
365	186·6	3·4	0·7	1·6	granite alluvium no o/c
366	253·6	5·2	0·5	2·2	granular alluvium - granite o/c nearby.
367	234·3	6·2	0·5	1·6	alluvium no o/c
368	191·7	3·3	0·8	1·5	Qtzite float alluvium. no o/c.
369	223·8	4·5	1·2	1·3	Granite o/c nearby alluvium.
370	256·8	7·7	0·6	1·7	as above
371	165·2	3·5	0·6	1·2	as above
372	202·4	4·7	0·4	1·4	as above
373	179·5	4·9	0·6	0·8	as above
374	172·0	4·0	0·9	1·0	alluvium no outcrop. no float
375	222·3	3·6	0·7	2·1	ark bed. alluvium.
376	353·0	5·4	2·3	2·7	course grained granite o/c with qtzite float
	346·2	5·9	1·4	2·7	qtz reef.
377	220·8	3·8	1·2	1·4	base of hill. Qtzite float.
378	279·5	5·2	0·8	1·7	granitic o/c's alluvium qtzite float
379	240·9	6·0	0·7	1·5	qtzite and granular alluvium
380	206·3	5·4	0·5	1·5	granite o/c's nearby, alluvium
381	202·9	3·9	0·9	1·4	alluvium a granite o/c's
382	254·0	6·0	1·0	1·8	as above
383	209·6	5·9	1·0	1·2	as above
384	255·5	7·6	0·7	1·7	edge of swamp no o/c
385	200·8	5·1	0·5	1·2	as above
386	266·4	6·6	0·8	1·9	granite o/c alluvium.
387	135·8	2·1	0·3	1·2	alluvium no o/c
388	216·9	3·5	0·6	1·8	alluvium granite o/c
389	209·4	2·7	0·2	2·4	alluvium no o/c
390	230·9	3·6	1·3	1·5	granite o/c qtzite float.

	T	K	U	Th	30 second counts EL 2094
391	247.6	4.2	1.6	1.2	near qtz reef qtzite float no o/c.
	271.5	4.0	1.9	1.5	
392	263.7	2.6	0.8	2.2	cobbly alluvium. o/c laterite (?) conglomerate.
393	276.7	9.1	0.7	1.4	riverbank. clayey no o/c
394	187.9	3.0	0.7	1.4	alluvium near crk no o/c
395	262.6	5.5	0.6	2.6	alluvium - fined grained granite o/c
396	256.9	6.7	1.3	1.4	near river, alluvium no o/c
397	297.3	6.4	1.0	1.9	alluvium - poikolitic feldspars - granite o/c
398	291.5	3.3	1.5	2.5	granite o/c - alluvium
399	242.8	3.7	0.4	2.6	no o/c - alluvium
400	175.0	3.0	0.3	1.0	granite o/c - alluvium.
401	211.2	4.0	0.8	1.5	no o/c - alluvium
402	306.3	2.9	1.3	1.7	spotted hornfelds float + o/c at base of hill.
403	321.8	3.0	2.1	2.2	qtz / qtzite and hornfelds float.
	326.1	4.8	2.4	2.2	
404	209.1	2.3	1.0	1.5	granite o/c alluvium.
405	188.3	5.0	0.2	1.2	alluvium no o/c
406	250.3	1.9	1.7	1.7	as above nr creek.
407	190.3	4.2	0.8	1.0	alluvium nr creek, no o/c
408	293.9	5.8	0.9	2.3	alluvium nr creek granite o/c
409	314.1	3.2	1.7	2.4	alluvium, no o/c.
410	211.4	4.6	0.7	1.5	as above
411	189.6	2.6	0.7	1.0	alluvium - granite o/c
412	222.7	4.7	1.5	0.9	alluvium - no o/c
	225.9	4.5	0.6	1.3	
413	203.2	5.7	1.0	1.0	alluvium near creek. hornfelds o/c
414	210.6	5.7	0.8	1.0	alluvium on crk bank " "

No	Tc	K	U	Th	% second counts EL 2094 88
415	252·5	6·7	0·6	1·6	alluvium ok grey fined grained hornblende + qtz(?)
416	274·3	4·5	1·1	1·9	blackshale o/c qtzite float
417	286·1	6·7	1·0	1·9	granite ok - alluvium
418	225·6	5·6	1·1	1·1	alluvium granite ok nearby
419	166·2	4·0	0·8	0·6	alluvium near creek; no o/c
420	289·9	4·4	0·9	2·1	do above
421	332·5	4·1	1·5	2·8	as above
422	316·4	7·2	1·2	2·6	as above (near Mary River)
423	213·7	4·1	1·0	1·5	as above
424	178·3	4·5	1·0	0·8	as above
425	183·4	3·9	0·3	1·3	alluvium with Granite outcrop
426	169·3	3·3	1·0	0·9	as above.
427	302·4	5·4	1·7	1·9	base of medium grained granite hill
428	247·7	5·3	0·6	1·8	alluvium, no o/c
429	267·4	4·7	1·3	1·9	alluvium, no o/c
430	320·5	5·4	1·0	2·5	alluvium no o/c
431	342·5	5·7	1·1	2·1	alluvium, no o/c
432	341·7	5·6	0·3	2·9	alluvium no o/c
433	320·2	5·2	0·8	2·6	alluvium no o/c
434	257·9	5·8	1·2	1·5	alluvium no o/c
435	164·4	6·9	1·5	3·4	alluvium, no o/c, near many dikes
~~436~~	~~[illegible]~~				
436	155·7	5·2	1·4	3·9	in swampy area, no o/c
437	373·5	7·7	0·7	2·9	alluvium & cracked, granite o/c
438	263·9	4·7	0·8	1·7	alluvium with granite o/c
439	140·9	2·6	0·9	0·8	quartz veg outcrop + float
440	180·4	3·2	0·6	1·1	alluvium no o/c

N	Tc	K	U	Th	30 second counts EL 2094
441	218·6	6·2	0·7	1·2	base of sed hills
442	336·9	5·0	1·4	2·4	base of sed hills (v.f.g. sandstones & qtzite float)
443	205·1	3·7	0·6	1·2	alluvium, granite o/cs nearby
444	242·3	2·7	1·4	1·4	alluvium, laterite % nearby
445	214·5	3·9	0·8	1·3	alluvium near creek, no o/c
446	223·6	4·9	0·7	1·7	alluvium, no o/c
447	257·4	5·1	0·8	1·9	alluvium, weathered qtzite o/c, shale + qtzite float
448	222·5	3·3	0·4	1·1	alluvium, granite o/c
449	312·3	7·0	0·7	2·2	o/c of granite, (mesocratic, with xenolithic inclusions + stringers)
450	312·5	3·8	1·6	1·9	granular-muddy alluvium, near qtzite ridge
451	338·1	6·2	1·8	2·2	o/c of brecciated & foliated deformed interbedded qtzite + mudstone
452	317·2	7·1	1·2	2·3	alluvium at base of sedimentary hills
453	306·9	5·7	1·5	1·7	alluvium with qtz + qtzite float
454	216·7	6·0	0·7	1·4	alluvium, with granite & qtzite o/cs
455	240·2	5·6	0·4	1·8	alluvium with granite o/cs
456	154·3	3·9	0·7	0·9	alluvium, qtzite float
457	278·7	6·2	0·9	2·0	on hill, black shale + qtzite float
458	307·8	10·1	0·8	1·9	~ a ? fault zone at base of sed hills, & qtz ridge
459	263·3	4·4	1·2	1·7	top of qtz ridge
460	256·8	4·6	1·2	1·4	top of qtzite ridge
461	167·8	3·9	1·0	0·7	grooved drainage sed hills
462	182·0	3·7	0·6	0·7	alluvium at base of hills, qtzite float
463	171·9	4·2	0·8	0·7	porphyritic (qtz + fsp) biotite rich fine grained granite
464	200·3	6·8	0·8	0·7	near creek, granite o/c nearby
465	311·0	8·1	1·9	1·5	near creek, below qtzite hill
	304·6	7·7	1·3	1·6	

NO	Tc	K	U	Th	30 second count EL 2094
466	201·2	5·6	0·5	1·0	qtzite float, granite o/c
467	209·3	6·0	0·7	1·3	near riverbank, granite o/c
468	236·6	8·1	0·6	1·6	~~granite o/c~~ qtzite float on hill
469	221·2	4·3	0·6	1·6	granite o/c, qtzite float
470	259·6	4·5	1·1	2·2	alluvium, granite o/c, qtzite float
471	257·2	5·7	1·6	1·3	qtzite float, hornfels on hill top
472	244·8	5·9	1·1	1·5	very fine sandstone, o/c + qtz vein debris
473	174·3	3·2	0·9	0·9	hornfelsed mudstones & sandstones
474	262·3	7·0	1·2	1·2	as above
475	244·5	5·7	1·2	1·1	schist + Fe mineralised qtzite float
476	263·1	7·9	1·0	2·0	top of hill qtzite float black shale o/c
477	257·9	6·2	0·8	1·5	hornfelsed mst float on hill
478	227·5	5·3	1·0	1·4	quartzite float on hill
479	266·6	6·6	0·9	1·5	qtzite float, hornfels float, granite o/c
480	205·7	4·3	1·1	1·4	near river junction, qtzite float
481	232·6	6·3	1·3	1·1	in valley, qtzite float, ? laterite o/c
482	178·5	6·0	0·6	0·9	in river valley, schist float, near granite contact
483	239·5	6·2	1·2	0·8	in valley, charges, no o/c
484	182·4	4·7	0·7	1·1	granite o/c 5/5t float.

FOOT TRAVERSES

30 SECOND COUNTS EL2094

N°	TC	K	U	Th	
485	407·2	11·2	1·7	2·1	base of hills. sericitised mudstones qtzite float
486	520·7	15·9	1·7	3·2	coarse grained white fsp. biotite granite
487	355·6	10·3	1·5	2·5	
488	139·7	2·4	0·7	0·9	Very fine grained Qtzite scree.
489	209·8	5·4	0·6	1·2	qtzites + hff. shales.
490	231·0	7·5	1·1	1·0	sericitised m/st + very fine sandstones
491	287·4	10·0	0·9	1·5	" " hffs Fe minerals in places.
492	95·2	1·5	0·4	0·5	Qtzite scree
493	371·2	7·2	3·1	1·7	fractured hffs with qtz veins + Fe rich.
494	286·6	8·6	0·8	1·5	Sericitised hffs o/c
495	114·0	1·4	0·7	0·7	Qtzite.
496	266·0	8·0	0·9	1·9	Side of valley m/st float.
497	295·9	8·5	0·9	1·5	in valley nr river qtzite float Conglom. o/c
498	251·3	5·1	0·9	1·4	near creek, alluvium, qtzite float.
499	151·8	2·4	0·3	0·9	o/c's of Qtzite near crk.
500	376·6	8·8	1·0	2·1	top of hill, qtzite o/c, mixed beds of shales
501	234·5	6·4	0·7	1·1	top of hill hff b/s scree
502	350·6	11·4	1·4	1·6	top of hill. site of Fe enrichment + mineralisation
503					and well indurated spotted hff + shale.
503	319·2	11·8	0·8	2·3	sericitised C Fe stained shale.
504	260·3	7·4	0·7	1·5	Granites, qtzites, Fe mineralisation.
505	358·3	12·4	1·2	2·0	on rise o/c sericitised mst
506	113·7	2·6	0·4	0·7	o/c of well washed m-qtzite + blk shale
					float. Both exhibit minor Fe inclusions.
507	293·0	7·5	1·8	1·4	o/c of blk shale (sometimes slightly sandy) and
					interbedded with Qtzites. across beds of Qtz
					→ muddy Qtzite, pebbly conglom. strikes ~

WALKING TRAVERSES

30 Second Counts

A = GAD 4.
B = Mc PHAR.
UNSTRIPPED
EL 2094 83

No.s	Tc	K	U	Th	
508	70-4	1·4	0·4	0·5	ridge of washed qtzite.
509	126·0	3·3	0·7	0·7	as above
510	278·1	8·4	0·8	1·7	top of ridge Qtzite blk shale float + o/c.
511A	85·7	0·9	0·3	0·7	Qtzite ridge.
511B	116·5	9·0	2·3	2·2	
512A	83·8	0·5	0·6	0·4	as above
512B	72·2	5·4	1·0	1·5	
513A	64·4	1·2	0·2	0·4	as above
513B	65·9	4·9	1·1	1·0	
514A	91·6	1·7	0·4	0·7	as above
514B	123·2	8·5	2·8	2·2	
515A	68·4	1·4	0·2	0·7	as above
515B	73·1	5·4	2·4	1·2	
516A	172·5	3·1	0·6	1·3	blk shale o/c and float on Qtzite ridge.
516B	108·1	7·4	2·5	1·8	
517A	124·6	2·3	0·7	0·8	some coarse sandstone, some brecciated
517B	92·3	5·8	2·5	1·0	conglomerate o/c, qtzite float + o/c.
518A	281·2	6·7	1·0	1·8	creek bed o/c of blk shale, between
518B	281·3	2·58	6·5	4·5	two Qtzite ridges.
519A	178·0	3·7	0·9	1·2	alluvium. Qtz and Qtzite float. Black
519B	171·4	14·1	3·2	1·9	shale o/c in creek bed.
520B	174·0	1·17	3·9	3·6	qtzite o/c on top of ridge
521B	304·3	3·03	5·8	3·3	qtzite float and o/c
522B	246·1	2·53	3·9	4·2	alluvium and qtzite float nearby.
523B	133·0	9·2	3·2	2·5	top of Qtzite Ridge.
	132·1	6·9	3·5	2·3	

WALKING TRAVERSES

* A denotes Grad 4
* B denotes McPHAR unstripped!

EL 2094

30 ~~COUNTS PER SECOND~~.
30 SECOND COUNT TIME

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Nos	Tc	K	U	Th	
524B	133·0	9·2	3·2	2·5	Granite o/c and Qtzite float.
B	132·1	6·9	3·5	2·3	
525B	327·5	2·72	7·5	5·8	alluvium near crk. Qtzite o/c + float.
526B	407·9	5·43	4·4	4·1	o/c of Qtzite and a Sericite Shist float.
527B	441·5	4·92	5·6	7·3	side of creek, alluvium with Sericite Shist and Qtzite float
528B	306·4	2·94	4·2	3·4	junction of creeks, alluvium. no o/c.
529B	380·4	4·18	6·5	4·9	top of ridge, qtzite float. qtz o/c
530B	167·8	1·78	2·1	2·1	Qtz Ridge with mixture of Sericite Shists
B	165·5	1·76	1·9	2·1	
531B	296·5	3·18	5·7	4·3	as above
532B	244·7	2·46	2·9	2·8	alluvium at bottom of ridge. Qtz + Qtzite float
533B	265·4	2·33	4·0	4·4	qtzite float + alluvium
534B	210·1	2·26	3·5	1·9	alluvium with Qtz o/c nrby.
535B	217·9	2·10	3·1	2·0	as above
536B	275·8	2·91	4·3	3·2	alluvium but no o/c
537B	285·3	3·20	2·8	2·8	alluvium with a Qtz float and Qtzite o/c
538B	301·3	3·41	4·5	3·1	alluvium with o/c QTZ and black shales
539A	339·6	10·6	1·9	1·8	Sericitised hornefelds, muddy, some Fe alterations
540A	199·7	6·8	0·4	1·0	indurated, slightly muddy sandstone + qtzite, slight Fe staining.
541A	182·2	6·4	0·3	0·7	black shale + qtzite float on ridge.
542A	364·1	10·8	1·4	1·9	hill, nr creek, qtzite and blk shale float.
542A	363·4	11·0	1·2	2·3	
543A	360·9	10·9	2·2	1·7	Blkshale float, sericitised hornefelds.
544A	246·3	9·0	1·0	1·1	River, blk shale float gr o/c, SSt o/c
545A	183·9	5·9	0·6	1·9	Laterite o/c, granite o/c in river bed.

Walking traverses. 30 Second Counts

A denotes CAT 4

B denotes McPhar (unstripped figures) 80

NO	TC	K	U	Th	
546A	207.1	9.6	1.2	1.7	top of a rise, associated black shale float
547A	263.6	10.5	1.0	1.2	in riverbed, muddy qtz + qtzite o/cs
548A	235.0	9.9	0.3	1.4	ridge, sandstone o/c
549A	229.1	6.9	1.3	0.9	o/c of qtzite + qtz vein
550A	280.9	7.7	0.9	2.4	old river gravels, qtzite o/c + float
551A	445.1	8.7	2.3	2.9	granite o/c + qtzite float; 4m wide qtz vein, interbedded, partially deformed & brecciated qtzite & mudstone (Fe rich) - o/c, (granite coarse grained with Xenoliths.)
552B	230.4	3.01	5.1	3.9	top of ridge, qtzite o/c + float
	172.2	2.86	2.14	2.9	
553B	289.3	2.41	4.5	6.7	Hematite, Fe mineralisation in o/c, + qtzite
					Eastbourne traverses Cont'd
554	230.6	3.2	1.1	0.9	sericite hornfels, qtz float.
555	237.3	3.5	0.9	1.3	qtzite o/c. muddy qtzite float
556	262.1	4.0	0.6	1.5	muddy qtzite float
557	178.5	3.5	0.9	0.7	Valley, qtz float
558	120.6	1.5	0.8	0.2	qtz + qtzite float
559	116.5	1.9	0.5	0.4	alluvial area, old river gravels (qtz + qtzite) present
560	277.5	4.9	1.2	1.3	qtz reef, muddy sericitized qtzite float
561	278.6	5.2	1.2	0.9	sericite hornfels float
562	193.7	2.7	0.7	0.8	alluvium, no o/c.
563	144.7	1.4	1.0	0.8	alluvium, no o/c.
564	201.4	3.1	0.6	1.0	in creek bed, alluvium, no o/c
565	232.6	2.6	1.1	0.9	in valley, qtzite float.
566	240.3	3.5	0.9	1.2	qtz reef, hornfels, qtzite float
567	240.0	4.1	1.1	1.3	qtzite, weathered Fe shale, qtz float

NO	Tc	K	U	Th	Sc Second Counts
568	171·3	3·3	0·6	0·9	alluvium, qtz o/c
569	160·9	3·1	0·4	0·7	alluvium, qtz o/c
570	217·6	3·5	1·1	0·4	Mili Lat. Sericitized shale float
571	215·4	4·1	0·6	0·8	muddy qtzite, laterite boulders both near river
572	178·2	3·3	0·4	0·8	hills of muddy qtzite
573	227·6	3·8	1·2	0·8	near quartz o/c
574	291·5	3·5	0·6	2·2	alluvium, no o/c, near Mary river
575	153·4	1·5	0·6	1·1	alluvium, no o/c
576	108·3	0·7	0·7	0·8	alluvium, no o/c
577	187·4	2·4	0·8	1·0	alluvium, no o/c
578	462·8	3·9	2·6	3·5	alluvium, no o/c
579	371·5	4·0	1·1	3·0	alluvium, near creek, no o/c
580	365·3	4·4	0·8	2·9	alluvium, near creek, no o/c
581	139·0	0·8	0·1	1·5	alluvium, near swamp, no o/c
582	138·1	1·1	0·9	0·8	o/c of laterite nearby
583	139·0	1·0	0·4	1·5	alluvium, no o/c
584	249·9	2·2	1·0	1·6	alluvium, granite o/c nearby
585	350·5	3·7	0·9	2·8	alluvium, no o/c near Mary River
586	353·4	3·7	1·3	2·3	granite o/c on Mary river
587	279·5	2·1	1·6	1·8	laterite (granular) & alluvium
588	139·7	0·8	0·7	0·7	as above
589	139·7	0·8	0·7	1·1	as above
590	305·4	2·2	1·4	2·5	as above near granite o/c
591	279·2	2·3	1·6	1·5	sandy laterite o/c
592	338·4	3·3	1·6	2·1	alluvium, granite o/c's nearby
593	324·1	1·8	1·6	2·1	alluvium no o/c

No	Tc	K	U	Th	30 Second Counts
594	334.7	1.1	1.4	2.9	alluvium, no o/c
595	232.8	0.7	1.5	1.6	alluvium, occasional granite o/c
596	211.3	2.1	0.7	1.4	as above
597	191.3	1.5	1.0	1.3	granite & alluvium no o/c
598	197.1	2.1	0.3	1.5	granite o/c
599	319.5	4.7	0.9	2.1	granite o/c
600	156.7	3.0	0.4	0.8	alluvium near creek, o/c granite
601	182.7	3.8	0.4	0.6	o/c of qtzite, sericitized hornfels float
602	252.4	4.3	1.3	1.1	o/c of sericitized muddy qtzites in valley
603	216.5	4.5	0.5	1.1	as above
604	195.2	3.1	0.9	1.1	on a ridge, hornfels float
605	227.8	5.3	0.7	0.9	as above & qtz float
606	142.0	2.2	0.7	0.6	alluvium, hornfels o/c nearby
607	153.3	2.7	0.8	0.8	o/c of conglomerate + qtzite
608	265.0	5.0	0.3	1.5	hill top, cover of ~~cretinized~~ sericitized shale
609	201.9	5.0	0.8	0.9	qtz ridge + hornfelsed ~~shale~~ shale hill
610	197.6	4.2	0.5	1.0	shale ridge some qtz & qtz conglomerate o/c
611	122.3	3.1	0.3	0.6	alluvium, qtz reef o/c nearby
612	171.1	3.0	0.7	0.7	alluvium, no o/c
613	149.1	2.3	0.8	0.7	on a qtz ridge
614	146.5	2.2	0.8	0.8	o/c of Fe stained qtzite
615	144.1	1.8	0.9	0.5	alluvial plain no o/c
616	146.5	2.5	0.6	1.0	alluvium, (granite) no o/c
617	228.3	4.7	0.4	1.1	qtzite reef in valley
618	252.8	4.6	1.1	1.1	on hill of sericitized shale fragments
619	208.6	3.6	0.7	0.5	shale & qtzite scree on side of hill.

No	Tc	K	U	Th	30 Second Counts
620	216.5	3.6	0.9	1.1	quartzite float on side of hill
621	255.3	4.5	1.2	1.0	hornfels float on hill
622	154.0	2.9	0.6	0.7	creek draining hornfelsed beds + qtz vein
623	157.2	3.2	0.8	0.5	qtz + qtzite rubble on side of hill
624	194.2	3.5	0.9	1.1	top of hill, qtzite float
625	235.5	5.4	0.8	0.9	black shale on top of hill
626	206.6	4.6	0.7	1.0	qtz + qtzite float
627	230.1	6.2	0.5	1.1	ridge of black shale + qtz
628	159.9	3.4	0.4	0.3	alluvium area no o/c
629	133.7	2.9	0.3	0.7	alluvium no o/c
630	252.8	4.6	1.5	1.4	qtzite + shales rubble
631	185.6	3.8	0.6	1.1	muddy riverbed, no o/c
632	217.1	5.4	0.9	0.5	on a qtz ridge, shale float
633	132.7	2.0	0.7	0.7	alluvium near creek, no o/c, qtz float
634	197.8	4.4	0.7	0.9	as above
635	132.7	1.6	0.8	0.3	on top of qtz reef
636	220.7	5.8	0.3	1.4	hill with shale scree (slightly sericitised)
637	133.4	3.6	0.5	0.8	alluvium near creek, qtzite float
638	135.8	1.6	0.6	0.6	alluvium near river base of qtz ridge
639	224.3	4.8	0.6	1.0	on qtz reef, weathered shale float
640	223.2	4.6	0.6	0.9	qtz + hornfels float
641	210.0	4.3	0.8	0.6	weathered shale + qtz float
642	234.3	5.3	0.5	1.0	alluvium at base of qtz ridge
643	200.3	5.5	0.6	0.5	qtzite scree
644	139.2	1.3	0.5	0.3	qtz + qtzite float
645	223.7	3.3	0.8	1.1	qtz sericite, schist, + qtzite float in creek

No	Tc	K	U	Th	3C Record Country
646	309.8	4.2	1.0	1.8	alluvium ~~xx~~ many ~~xx~~
647	311.8	4.3	1.0	2.0	as above
648	414.8	4.9	2.0	2.4	as above
649	244.4	3.8	0.8	1.2	mud - granular alluvium, granite o/c
650	280.7	4.2	1.4	1.2	alluvium, ~~xx~~ [illegible]
651	166.5	3.0	0.5	0.0	alluvium, near creek
652	261.0	3.5	0.5	1.6	alluvium
653	309.8	4.1	1.0	1.4	alluvium
654	323.1	4.6	1.3	2.0	muddy (+ sericite) qtzite
655	271.0	4.1	1.7	1.1	o/c of [illegible] hornfels
656	314.7	4.9	1.2	1.6	as above
657	345.4	5.4	1.7	1.7	as above
658	272.0	3.7	1.2	1.4	muddy - granular alluvium
659	223.6	2.6	0.8	1.6	alluvium with weathered shale float
660	287.7	3.5	0.9	1.3	[illegible] qtzite + shale float
661	208.9	3.4	0.4	1.4	shale + qtzite float
662	232.0	3.2	1.3	1.3	alluvium
663	202.6	3.3	0.6	1.1	alluvium + mixed, shale belt
664	174.0	2.1	0.6	0.9	alluvium + mixed, qtzite & shale belt
665	139.5	2.2	0.8	0.7	alluvium
666	132.2	1.8	0.7	0.6	alluvium
667	244.5	3.7	0.7	0.6	alluvium
668	223.5	3.5	1.2	0.9	alluvium
669	167.2	2.8	0.3	1.1	alluvium
670	150.7	1.9	0.6	0.6	alluvium
671	204.1	2.8	1.0	1.3	laterite o/c [illegible] alluvium

No	Tc	K	U	Th	30 Second Count
~~672~~	~~294-7~~	~~2·8~~	~~1·0~~	~~7·3~~	
672	272-4	4·1	1·1	1·6	alluvium
673	252-9	3·7	1·1	1·3	Fe altered qtzites in hills
674	344-1	3·7	1·8	2·5	side of hill, dessick ironstone float
675	165-1	2·8	0·3	1·1	alluvium, Fe rich qtzite o/c
676	155·8	2·1	0·2	0·9	alluvium
677	119·7	1·9	0·4	0·5	alluvium
678	226·4	2·0	0·5	0·9	alluvium
679	173·7	2·0	0·7	1·0	alluvium
680	151·0	0·8	0·6	1·1	alluvium
681	202·5	2·5	0·8	1·3	alluvium
682	264·7	3·4	0·4	1·7	alluvium
683	276·7	4·4	0·7	1·8	alluvium
684	363·0	5·7	1·5	2·5	alluvium } near Mary River
685	382·8	6·8	1·3	2·2	alluvium }
686	281·0	4·0	1·0	2·3	alluvium
687	210·4	4·4	0·5	1·4	near granite o/c
688	162·7	2·4	0·9	0·6	alluvium with laterite pebbles
689	147·1	2·6	0·5	0·8	alluvium
690	179·6	3·7	0·2	1·2	alluvium
691	177·9	3·6	0·7	0·9	alluvium
692	159·2	2·9	0·7	0·8	alluvium
693	144·9	2·0	0·3	1·1	alluvium
694	184·4	2·6	0·5	1·2	alluvium
695	352·5	5·0	1·6	2·5	alluvium
696	220·9	4·2	0·3	1·4	pebbly alluvium near Mary River

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No	Tc	K	U	Th	30 second Counts
697	182.4	3.5	0.5	1.0	edge of peppercorn swamp
698	224.7	3.5	0.8	1.4	alluvium
699	294.7	3.8	1.1	1.6	alluvium - many fines
700	391.0	5.6	2.0	2.6	alluvium - many fines
701	330.9	3.4	1.2	2.3	alluvium
702	277.4	2.2	0.7	2.2	alluvium, qtz vein o/c
703	375.1	5.9	1.0	2.5	alluvium in swamp
704	363.5	5.7	1.7	2.4	alluvium - many fines
705	387.0	6.0	1.4	2.7	many fines, granite o/c
706	299.6	3.8	1.4	2.2	alluvium, qtzite o/c
707	312.6	3.9	0.9	2.0	alluvium
708	343.3	4.6	1.1	2.6	alluvium at river junctions
709	232.2	2.8	0.9	1.6	alluvium
710	399.6	6.3	1.7	2.0	sericitized qtzite float on side of hill
711	176.8	1.9	0.9	1.1	alluvium
712	153.7	2.6	0.4	1.0	alluvium
713	159.1	1.9	0.7	1.0	alluvium
714	327.4	3.9	2.0	1.2	muddy qtzite float
	328.7	4.3	1.3	1.8	
715	311.1	4.2	1.7	1.2	slightly sericitized muddy qtzite
	307.7	4.5	1.5	1.0	
716	223.8	3.4	1.0	1.9	alluvium
717	212.6	3.8	0.7	0.9	granite o/c
718	158.1	2.0	0.8	0.7	alluvium
719	197.5	2.5	0.9	0.8	alluvium
720	184.5	3.1	0.8	0.6	alluvium

No	Tc	K	U	Th	30 second Counts
721	241.5	2.3	0.5	1.4	in muddy riverbed, mod/c
722	212.5	2.4	0.5	1.4	alluvium
723	175.4	2.0	0.7	1.1	alluvium
724	190.2	2.0	1.4	1.0	alluvium
725	24.0	2.0	1.0	1.5	alluvium
726	207.6	1.7	1.3	0.9	alluvium with laterite pebbles
727	137.0	2.1	0.2	0.9	alluvium
728	150.9	1.5	0.4	1.2	sandy - granule alluvium
729	161.0	1.7	1.0	1.1	sandy alluvium, granule d/c
730	100.3	0.6	0.3	0.7	alluvium
731	128.1	1.3	0.5	0.9	alluvium
732	218.9	1.6	1.5	1.3	alluvium
733	178.7	1.8	1.3	0.6	alluvium
734	178.6	2.1	0.7	0.9	alluvium
735	188.1	2.9	0.4	1.3	alluvium
736	185.3	2.3	0.6	1.1	alluvium
737	214.7	1.8	1.4	1.1	alluvium
738	190.1	1.4	1.1	1.3	alluvium
739	144.4	0.9	0.9	0.9	alluvium
740	187.4	1.2	0.9	1.3	alluvium
741	174.8	2.4	0.9	1.3	alluvium
742	218.1	1.4	1.2	1.7	alluvium
743	171.2	1.2	0.3	1.4	alluvium
744	179.5	0.9	1.3	0.9	alluvium
745	229.6	2.2	1.4	1.5	alluvium
746	193.4	2.0	1.1	0.9	alluvium

No	T.	K	U	Th	30 Second Counts
747	220.5	2.8	1.2	1.4	granite o/c along river bed
748	166.8	2.6	0.4	1.1	alluvium, granite o/c
749	176.9	2.1	1.0	1.0	alluvium, granite o/c
750	213.5	1.8	1.0	1.4	alluvium
751	251.1	1.5	1.8	1.5	alluvium
752	248.7	1.1	1.6	1.5	alluvium
753	194.4	1.2	1.1	1.1	alluvium, laterite gravels
754	170.0	1.5	0.5	1.3	alluvium, occasional granite o/c
755	166.2	1.7	0.7	1.0	alluvium, no o/c
756	298.9	4.0	1.5	1.9	alluvium
757	194.8	1.3	1.1	1.1	alluvium
758	179.3	0.9	0.9	1.3	alluvium
759	233.3	2.8	1.1	1.5	alluvium
760	179.6	2.6	0.8	1.4	alluvium, granite o/c nearby
761	180.4	2.5	0.2	1.2	granite o/c
762	199.5	2.3	1.0	1.1	alluvium
763	164.4	0.1	1.0	1.0	alluvium
764	245.7	2.3	1.0	1.9	alluvium
765	175.3	1.7	0.7	1.5	alluvium
766	109.9	1.6	0.9	0.7	alluvium, granite o/c
767	88.9	1.4	1.3	0.6	alluvium
768	228.9	1.6	2.1	1.1	alluvium no o/c
769	220.3	2.8	1.3	0.9	alluvium
770	195.1	1.6	0.7	1.5	alluvium
771	171.5	2.1	0.2	1.5	alluvium
772	206.8	2.5	1.0	1.5	alluvium

NO	TC	K	U	Th	30 second counts
773	237.4	3.0	0.8	1.6	granite o/c
774	149.1	2.7	0.4	0.4	granite o/c
775	92.5	0.7	0.4	0.7	alluvium
776	92.9	1.2	0.5	0.6	alluvium
777	103.5	0.9	0.5	0.6	alluvium
778	247.8	2.9	1.0	1.4	alluvium
779	277.1	1.2	1.4	2.6	alluvium (swamp)
780	215.8	1.7	0.7	1.2	alluvium
781	205.6	0.8	1.1	1.2	alluvium
782	191.3	2.1	0.8	1.3	alluvium
783	183.5	2.2	0.6	1.7	alluvium
784	171.6	2.2	1.2	1.0	alluvium
785	201.2	2.2	1.0	1.2	alluvium
786	187.9	1.7	0.5	1.4	alluvium
787	184.1	1.0	0.6	1.1	alluvium
788	144.3	1.0	0.8	1.2	alluvium
789	192.0	0.9	0.9	1.4	alluvium
790	185.0	0.7	1.4	0.9	alluvium
	189.1	1.9	0.4	1.4	
791	194.8	1.9	0.6	1.2	alluvium
792	187.2	1.9	0.8	1.3	alluvium
793	236.3	2.9	1.0	1.5	alluvium (silty - granular)
794	190.0	1.9	1.4	0.9	alluvium (creek headwaters)
795	88.5	0.3	0.8	0.5	alluvium
796	96.2	0.7	0.7	0.6	alluvium
797	149.7	1.5	0.4	1.0	alluvium

Lt.	Tc	K	U	Th	30 Second Counts
798	186.2	1.5	1.0	0.8	Alluvium with river gravels
799	114.1	1.9	0.5	0.8	alluvium with laterite
800	111.1	1.2	0.7	0.6	alluvium (sandy)
801	143.4	1.4	0.6	0.8	alluvium (sandy)
802	102.2	0.6	0.5	0.7	alluvium (sandy)
803	173.2	2.1	0.9	0.7	alluvium
804	243.1	2.8	1.1	1.4	alluvium
805	220.9	3.8	0.7	1.0	alluvium
806	104.4	0.6	0.6	0.5	alluvium
807	106.3	0.8	0.6	0.6	alluvium (sandy)
808	129.0	0.9	0.5	0.8	alluvium
809	230.1	2.6	1.4	1.0	alluvium
810	193.3	1.6	0.6	1.3	alluvium with laterite pebbles
811	185.2	2.4	0.9	0.8	alluvium
812	104.3	0.4	0.7	0.6	alluvium + granite o/c
813	179.7	1.3	0.8	0.9	granite o/c
814	138.4	1.5	1.0	0.6	granite o/c
815	273.3	2.5	1.0	1.0	alluvium
816	227.0	3.4	0.9	1.4	alluvium near granite
817	369.0	5.8	1.0	2.9	granite overlain by laterite (contact area)
	296.9	4.3	0.9	1.8	
818	242.6	1.3	1.9	1.6	laterite o/c thru' alluvium
819	118.8	0.8	0.6	0.7	sandy alluvium no o/c
820	124.0	0.9	0.5	0.8	alluvium
821	218.2	2.3	1.0	1.6	alluvium
822	193.8	1.9	0.7	1.0	alluvium, occasional laterite o/c

No	TC	K	U	Th	No	TC	K	U	Th	No	TC	K	U	Th
823	182.0	1.5	0.8	1.0	848	376.8	5.5	0.4	2.6	874	357.4	6.0	9.0	2.7
824	257.6	2.5	0.9	2.1	849	157.8	1.7	0.3	0.7	875	379.3	3.8	1.8	2.0
825	134.2	1.6	0.1	1.1	850	231.5	1.8	0.7	1.6	876	330.1	5.8	0.6	2.3
826	119.8	0.6	1.0	0.6	851	193.4	1.4	1.2	1.2	877	321.7	5.0	1.2	2.3
827	242.7	1.7	1.3	2.0	862	166.7	1.4	0.7	1.2	878	275.1	2.5	1.5	1.7
828	413.8	6.4	2.3	2.0	853	220.7	2.9	1.1	1.4	879	296.6	3.4	1.0	2.1
	409.3	7.1	1.7	2.6	854	132.5	1.8	0.5	0.4	880	271.8	2.9	0.7	2.0
829	84.0	0.4	0.3	0.6	855	159.3	1.4	1.0	0.8	881	210.9	1.8	0.8	1.3
830	161.8	1.8	0.4	1.2	856	188.1	2.7	0.3	1.6	882	260.5	3.5	0.7	1.6
831	199.2	3.0	0.6	1.3	857	246.9	2.4	0.8	2.0	883	334.8	3.2	1.5	2.2
832	231.2	3.2	1.2	1.3	858	163.9	1.2	0.8	0.9	884	326.5	4.2	1.0	1.7
833	204.4	1.9	1.4	1.6	859	159.5	1.3	0.6	1.3	885	321.9	4.2	1.2	1.9
834	117.1	2.0	0.3	0.8	860	152.3	1.4	0.8	0.8	886	267	1.8	1.0	1.4
835	134.2	1.6	0.1	1.1	861	224.1	1.5	0.4	0.0	887	266.6	3.4	1.2	1.4
836	119.8	0.6	1.0	0.6	862	196.9	1.6	0.1	1.8	888	254.9	2.2	1.1	1.3
837	386.1	4.6	1.6	2.5	863	178.0	1.1	0.6	1.4	889	213.6	2.1	1.0	1.7
838	387.2	4.6	1.8	3.0	864	249.1	1.8	1.0	2.0	890	198.1	1.5	0.8	0.9
839	126.1	0.7	0.2	1.3	865	324.0	2.9	1.5	1.8	891	189.2	1.5	1.2	0.8
840	130.6	1.8	0.7	0.7	866	281.0	2.3	0.8	2.3	892	136.9	2.1	0.4	0.5
841	101.5	0.8	0.5	0.7	867	278.1	4.0	1.0	1.8	893	162.9	1.2	0.7	0.9
842	174.2	2.2	0.8	1.0	868	179.1	0.9	0.4	1.4	894	227.5	1.3	1.2	1.5
843	201.3	2.8	0.9	1.2	869	165.2	0.8	0.6	1.4	895	248.6	4.1	1.0	1.3
844	211.7	2.2	0.4	2.0	870	198.3	1.4	1.0	1.7	896	272.4	3.0	1.0	1.7
845	247.6	2.4	0.8	1.5	871	224.1	1.9	1.3	1.8	897	298.5	4.8	2.1	2.7
846	126.0	1.0	0.6	1.1	872	326.0	4.2	0.7	2.5	898	124.5	0.6	0.5	1.3
847	177.3	2.2	0.7	1.0	873	315.1	4.1	1.2	1.8	899	74.6	0.2	0.7	0.4

NO	TC	K	U	Th	NO	TC	K	U	Th	NO	TC	K	U	Th
900	91·5	0·5	0·4	0·9	926	376·6	7·8	1·5	2·4	949	358·0	4·9	1·3	2·7
901	108·4	0·7	0·4	0·5	927	341·4	5·2	1·3	2·1	950	359·0	2·5	1·4	1·6
902	210·9	2·5	0·7	1·1	928	365·2	5·4	1·1	2·8	951	243·7	2·2	1·0	1·2
903	320·6	3·3	1·0	2·6	929	298·6	2·9	1·8	2·1	952	303·2	1·7	1·4	2·3
904	114·4	1·8	0·2	0·8	930	283·4	3·8	1·5	1·4	953	572·2	4·4	1·7	3·6
905	120·1	0·9	0·8	0·7	931	280·8	3·1	1·4	1·9	954	343·1	3·2	1·0	2·3
906	134·6	0·6	1·0	0·6	932	295·0	4·1	0·8	1·8	955	367·9	3·1	1·0	2·8
907	94·7	1·0	0·5	0·5	933	352·0	4·4	1·7	2·4	956	264·8	1·3	1·1	2·1
908	312·8	5·3	1·4	1·8	934	392·7	5·7	1·4	2·8	957	184·4	1·8	0·5	1·4
909	214·8	2·4	0·6	1·1	935	333·0	4·2	1·2	2·3	958	305·7	2·1	2·2	2·4
910	226·2	3·4	0·7	0·9	936	327·0	4·4	1·0	2·2	959	228·0	2·3	0·6	2·0
911	145·1	2·7	0·4	0·6	937	372·9	5·1	0·8	2·1	960	397·8	6·1	0·8	3·0
912	105·4	1·3	0·4	0·9	938	248·2	4·4	1·0	1·1	961	396·9	5·3	0·8	3·1
913	106·3	0·8	0·6	0·8	939	176·0	1·7	1·0	1·1	962	299·2	3·1	0·8	2·4
914	14·3	0·5	0·6	1·0		175·1	0·8	1·3	0·8	963	302·5	2·7	1·1	2·0
915	118·5	1·1	0·4	0·8	940	214·8	2·1	1·0	1·1	964	193·6	2·0	0·8	1·2
916	130·3	2·2	0·6	0·8	941	285·6	1·4	1·2	1·6	965	161·8	1·1	1·2	0·5
917	316·3	4·1	1·5	2·0	942	400·8	3·8	2·2	2·0	966	375·2	5·3	0·8	2·9
918	255·3	2·9	1·2	1·6	943	392·1	4·4	1·7	2·2	967	428·3	4·1	0·9	4·0
919	307·3	5·1	1·0	2·2		440·6	4·3	2·0	2·4		426·4	4·5	1·7	3·5
920	125·1	0·4	0·5	1·0	944	431·9	4·2	0·8	4·2	968	179·9	2·1	0·6	1·1
921	147·0	0·9	0·5	1·5		426·5	1·9	2·9	2·7	969	179·1	1·1	0·5	1·7
922	114·1	0·3	1·0	0·9	945	175·4	1·2	0·8	1·2	970	315·0	2·2	1·3	2·5
923	312·5	3·2	1·6	2·0	946	107·5	0·9	0·4	0·6	971	272·6	2·3	1·5	2·2
924	144·8	0·9	0·5	1·7	947	261·8	2·6	1·2	2·1	972	317·6	4·6	1·4	2·0
925	295·7	1·5	1·8	2·0	948	376·7	5·3	1·0	2·4	973	342·4	5·0	1·4	1·6

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NO	Tc	K	U	Th	NO	Tc	K	U	Th	NO	Tc	K	U	Th
974	302·8	3·2	1·3	2·1	1000	199·0	2·4	0·9	1·0	1025	358·8	3·1	1·2	2·9
975	313·8	4·3	1·0	2·1	1001	191·2	2·9	1·1	0·7	1026	287·0	2·3	0·9	2·4
976	161·0	2·0	0·6	1·2	1002	269·0	4·8	1·2	1·8	1027	179·9	1·5	1·3	1·2
977	140·6	0·5	0·8	1·3	1003	272·8	3·0	1·1	1·2	1028	395·1	4·2	1·4	3·6
978	195·9	1·0	1·0	1·3	1004	162·1	1·5	0·4	0·9	1029	292·3	3·6	0·9	1·5
979	352·8	4·8	1·3	2·5	1005	191·6	1·8	1·7	1·3	1030	315·8	3·9	1·3	1·7
980	317·5	3·2	1·6	2·0	1006	254·2	4·1	1·2	1·4	1031	261·2	4·3	1·0	1·2
981	242·3	3·0	0·7	1·3	1007	263·3	4·0	1·0	2·1	1032	380·4	5·0	0·8	2·9
982	174·7	0·7	0·8	1·5	1008	342·9	2·4	1·4	2·1	1033	293·4	3·0	1·0	1·1
983	130·9	0·1	1·0	1·1	1009	204·7	6·3	1·5	1·6	1034	299·9	3·8	1·6	1·5
984	125·1	0·5	0·7	0·8	1010	228·6	1·0	0·9	2·0	1035	217·9	1·7	1·6	1·6
985	295·7	1·8	1·6	2·0	1011	284·0	8·3	1·4	1·4	1036	320·0	2·9	1·6	2·0
986	123·1	0·8	0·5	1·0	1012	136·3	1·1	0·5	0·9	1037	300·6	4·6	0·4	2·0
987	136·7	1·5	0·4	1·0	1013	158·6	1·0	0·8	1·1	1038	279·1	3·2	1·3	1·3
988	120·2	0·2	0·7	1·1	1014	260·6	3·1	0·7	1·7	1039	252·7	2·7	1·1	1·1
989	151·8	1·3	0·6	1·4	1015	319·8	3·4	1·2	2·0	1040	299·4	2·3	1·6	1·7
990	356·2	2·3	1·7	3·1	1016	305·4	4·0	1·7	2·0		294·5	1·3	1·6	2·0
991	323·3	2·4	1·3	2·8	1017	274·2	2·1	1·2	1·5	1041	265·0	1·9	1·0	2·1
992	103·6	0·5	0·5	0·8	1018	194·4	1·3	1·1	1·2	1042	333·7	2·1	1·3	2·7
993	75·3	0·3	0·4	0·6	1019	257·2	1·7	1·5	2·0	1043	291·2	3·7	0·8	2·4
994	168·2	1·0	0·3	1·4	1020	402·8	3·0	1·8	3·3	1044	319·8	4·3	0·7	2·4
995	148·3	0·6	0·4	1·1	1021	372·2	1·8	2·6	2·6	1045	297·2	1·9	1·1	2·0
996	117·9	0·4	0·5	1·1		382·1	3·2	1·8	2·8	1046	280·4	1·3	1·2	2·4
997	370·2	3·4	1·8	2·2	1022	291·9	2·1	1·3	1·9	1047	319·7	2·5	1·7	2·3
998	311·6	3·2	1·4	2·5	1023	240·3	2·6	0·5	1·4	1048	314·6	4·1	1·2	2·2
999	231·4	2·0	0·7	1·8	1024	194·6	1·8	0·7	1·2	1049	317·9	4·1	1·0	2·4

NO	TC	K	U	Th	NO	TC	K	U	Th	NO	TC	K	U	Th
1050	295.6	4.2	1.5	1.7	1077	237.1	1.6	1.4	1.4	1102	317.3	1.9	1.2	2.6
1051	313.7	3.8	0.9	2.5		236.4	1.8	0.4	2.5		330.9	1.5	2.2	1.8
1052	359.0	4.7	1.4	2.9	1078	336.9	4.5	0.7	2.8	1103	245.7	2.0	1.4	1.4
1053	277.8	3.0	0.9	1.9	1079	249.2	1.3	1.4	1.5	1104	231.7	1.1	1.2	1.3
1054	321.6	3.8	1.4	1.7	1080	192.3	0.7	0.7	1.8	1105	207.0	2.9	1.3	1.3
1055	231.5	1.3	1.0	1.7	1081	162.1	0.5	0.7	1.4	1106	249.8	3.4	0.8	1.7
1056	292.6	1.6	1.1	1.0	1082	164.2	1.0	0.7	1.6	1107	295.5	3.1	1.4	2.2
1057	387.6	3.2	1.5	3.1	1083	270.2	1.7	1.1	1.9	1108	408.4	6.5	1.5	2.5
1058	359.2	4.7	1.0	2.5	1084	397.8	1.9	2.4	3.2	1109	508.1	8.7	0.9	3.9
1059	264.6	1.6	1.1	2.0	1085	197.7	0.4	1.6	1.1	1110	432.2	9.6	0.6	2.8
1060	215.4	2.0	1.0	1.4	1086	271.0	3.4	1.0	2.1	1111	442.2	8.9	1.0	3.1
1061	368.1	2.2	2.0	3.1	1087	364.5	4.2	1.3	2.9	1112	454.1	7.9	1.1	3.0
1062	249.1	3.1	1.6	1.8	1088	123.3	0.8	0.3	0.8	1113	358.1	6.7	1.4	1.8
1063	364.2	4.7	1.6	2.6	1089	173.2	1.3	0.7	1.8	1114	558.4	9.6	1.0	4.0
1064	272.9	3.8	0.8	1.7	1090	139.2	0.4	0.6	1.0	1115	575.9	8.2	0.9	1.9
1065	231.5	3.4	0.5	1.1	1091	223.5	1.2	1.3	1.2	1116	367.2	8.8	0.9	2.0
1066	311.1	3.9	1.7	1.9	1092	368.2	4.0	1.3	3.0	1117	475.3	5.4	1.4	3.4
1067	137.6	1.4	0.7	0.6	1093	339.4	2.0	1.6	2.8	1118	376.6	4.6	1.4	2.4
1068	232.8	0.9	0.8	1.8	1094	238.2	1.4	1.0	2.0	1119	365.7	4.5	0.8	2.9
1069	378.7	3.9	1.8	2.1	1095	272.9	1.2	1.7	2.1	1120	393.6	8.5	1.0	2.3
1070	413.2	4.7	1.7	3.2	1096	325.8	1.3	1.9	2.2	1121	516.5	9.4	2.0	3.4
1071	413.2	4.7	1.7	3.2	1097	353.0	2.0	2.8	2.2	1122	476.8	7.2	1.1	2.5
1072	305.1	2.2	1.6	1.8	1098	330.1	4.0	2.0	2.0	1123	421.2	7.7	1.3	2.4
1073	241.3	2.5	1.5	1.2		330.3	2.9	2.2	2.1	1124	571.8	8.7	2.1	3.4
1074	194.0	1.1	1.1	1.2	1099	244.4	2.3	1.2	1.0	1125	584.5	7.5	2.5	3.8
1075	235.0	1.1	0.8	2.5	1100	391.7	3.7	2.5	2.4	1126	638.4	9.0	2.0	4.3
1076	397.4	1.7	2.4	3.2	1101	375.4	4.2	2.1	2.1	1127	574.0	8.3	1.6	3.5

NO	Tc	K	U	Th	NO	Tc	K	U	Th	NO	Tc	K	U	Th
1128	564.5	9.2	0.7	4.7	1154	258.8	3.6	0.7	1.7	1190	158.0	3.1	0.7	0.5
1129	607.6	9.9	1.6	4.2	1155	198.2	4.4	0.7	0.7	118	128.6	1.5	0.3	0.9
1130	574.3	8.2	2.3	3.9	1156	146.2	3.2	0.4	0.7	1182	143.4	1.6	0.5	0.9
1131	506.8	5.3	2.6	2.9	1157	213.5	3.5	0.8	0.8	1183	129.7	1.6	0.6	0.7
1132	280.4	4.3	1.2	1.4	1158	197.2	4.8	0.9	0.9	1184	120.0	1.4	0.4	0.7
1133	346.3	6.0	1.2	1.9	1159	143.7	3.2	0.6	0.4	1185	114.5	1.4	0.2	0.7
1134	317.1	6.4	1.0	2.1	1160	105.3	0.6	0.6	0.5	1186	135.0	1.6	0.7	0.8
1135	271.7	7.6	0.8	1.0	1161	156.9	3.4	0.7	0.7	1187	132.0	1.5	0.6	0.7
1136	149.5	3.9	0.4	0.1	1162	112.0	2.4	0.5	0.4	1188	116.2	1.9	0.9	0.9
1137	343.7	6.3	1.2	1.8	1163	103.6	1.9	0.5	0.3	1189	110.5	1.6	0.5	0.4
1138	483.7	8.6	1.7	2.9	1164	146.4	2.6	0.3	1.0	1190	128.5	2.8	0.6	0.5
1139	398.7	6.9	0.9	2.1	1165	143.3	2.5	0.5	0.7	1191	119.2	2.6	0.2	0.5
1140	484.9	10.3	0.4	4.1	1166	162.3	3.0	0.6	0.7	1192	137.9	2.9	0.3	0.6
1141	371.7	9.1	0.7	1.8	1167	93.2	1.7	0.1	0.3	1193	192.5	3.6	0.8	1.0
1142	498.5	10.7	0.7	3.0	1168	109.1	1.6	0.4	0.6	1194	197.8	2.6	0.7	1.0
1143	378.2	5.1	1.0	1.4	1169	107.9	1.5	0.3	0.6	1195	245.6	3.8	0.9	1.5
1144	301.6	7.5	0.4	0.5	1170	123.6	2.5	0.4	0.5	1196	425.6	2.6	4.3	1.2
1145	287.9	6.3	0.5	1.2	1171	155.9	3.6	0.5	0.6		425.5	3.1	4.0	1.4
1146	251.1	4.0	1.0	1.1	1172	217.5	4.5	0.7	0.9	1197	178.4	3.1	0.8	1.0
1147	279.7	5.1	0.7	1.5	1173	225.7	5.0	1.0	1.0	1198	172.1	2.2	0.6	1.1
1148	230.2	3.9	1.0	1.2	1174	148.6	1.9	0.7	0.7	1199	180.4	4.0	0.8	0.8
1149	236.8	5.2	1.1	1.1	1175	215.8	5.1	0.4	1.3	1200	187.8	4.5	0.4	1.1
1150	435.9	5.8	2.0	2.3	1176	243.0	6.0	1.3	1.2	1201	157.6	3.3	0.3	0.6
1151	277.6	5.3	0.6	1.7	1177	195.5	4.0	0.6	1.1	1202	131.9	3.3	0.4	0.5
1152	297.8	3.8	0.4	2.4	1178	121.4	2.3	0.5	0.7	1203	214.4	3.3	1.0	1.0
1153	252.6	5.8	0.4	1.3	1179	101.9	1.5	0.5	0.5	1204	182.4	2.4	0.7	0.8

Cwbrna traversing

No	Tc	K	U	Th	No	Tc	K	U	Th	
1205	175.8	2.1	0.7	0.9	1225	260.3	3.1	1.2	1.5	foot traverse GR0.4
1206	258.3	3.9	0.8	1.0	1226	391.9	5.2	1.3	1.7	"
1207	306.8	3.9	1.3	1.2	1227	270.6	3.2	1.1	1.4	"
1208	287.3	3.4	1.5	1.3	1228	194.7	3.4	0.5	0.6	"
1209	359.0	3.5	2.2	1.6	1229	209.8	1.9	0.2	0.5	"
	360.2	3.4	1.6	1.5	1230	200.6	2.0	0.4	1.0	"
1210	423.1	2.8	3.1	1.3	1231	241.0	2.2	0.7	1.2	"
1211	263.8	2.9	0.9	1.1	1232	230.3	2.9	1.2	0.9	"
1212	224.7	4.4	0.5	1.4	1233	244.4	2.3	0.8	1.2	"
1213	189.2	3.4	0.6	0.8	1234	226.0	3.4	1.0	1.4	"
1214	245.6	3.1	1.0	1.1	1235	303.2	5.1	1.3	1.6	"
1215	183.6	3.9	0.6	0.9	1236	138.0	1.3	0.5	0.9	"
1216	245.9	3.5	1.3	1.1	1237	209.9	2.6	0.8	1.1	"
1217	277.4	5.6	1.2	1.2	1238	122.2	0.9	0.5	0.7	"
1218	272.3	4.9	0.7	1.6	1239	242.4	1.9	1.1	2.1	"
1219	188.9	2.7	0.6	1.1	1240	262	235	58	35	foot traverse, Geomechanics GR 410
1220	163.4	1.4	0.8	0.8	1241	270	289	49	50	"
1221	236.5	3.0	1.0	1.2	1242	256	217	78	59	"
1222	271.1	1.5	1.0	0.9	1243	206	186	49	39	"
1223	280.8	4.0	0.9	1.2	1244	284	257	62	53	"
1224	216.5	3.5	1.2	0.9	1245	222	237	43	47	"
					1246	208	216	53	49	"
					1247	217	230	46	54	"
					1248	295	283	59	56	"
					1249	252	205	41	37	"
					1250	168	177	32	30	"

NO	NOTE	TC	K	U	Th	
1251		186	154	57	46	Foot trenching, Geomatrics Lentd
1252	•	187	139	43	37	"
1253		191	174	42	42	"