



1ST RELINQUISHMENT REPORT FOR THE HIGHLAND ROCKS PROJECT

for the period
29/04/1999 to 26/03/2002

Exploration Licenses covered by this report:

EL8970	McLeod
EL8971	Rameriz
EL9559	Highlander
EL9563	Lowlander

NORTHERN TERRITORY

Volume 1 of 1

1:250,000 SHEET:	The Granites	SF52-03
	Highland Rocks	SF52-07

1:100,000 SHEET:	Wickham	4855
	Highland	4955

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TENEMENT HOLDERS: Normandy NFM Ltd (trading as Newmont NFM)

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SUMMARY

The 1999 exploration program over the relinquished portions of the Project involved initial reconnaissance traverses of opportunistic surficial sampling (lag and rockchip). A program of broad spaced aircore drilling was also completed to develop an understanding of the regolith, depth of cover and nature of the bedrock across the license.

In 2000 the majority of the work program was focussed on the regional 500m × 500m lag and CRC coverage of areas of negligible. A 1-2km × 500m vacuum drilling program was also conducted over areas in interpreted shallow cover. These programs were designed to provide a coherent geochemical and geological picture over regions of subcrop and shallow cover. Small programs of RAB drilling and ground magnetics were also carried out.

Results from these programs were disappointing, with only rare low level isolated anomalous assays returned.

In summary, exploration of the relinquished areas of EL's 8970, 8971, 9559 & 9563 comprised:

	EL8970	EL8971	EL9559	EL9563	TOTAL:
CRC Sampling	8	51	30	10	99 samples
Lag Sampling	135	383	202	-	720 samples
Vacuum Drilling	24 holes, 207m, 70 samples	-	14 holes, 123m, 40 samples	-	38 holes 330m, 110 samples
RAB Drilling	2 holes, 48m, 16 samples	-	-	-	2 holes 48m, 16 samples
Aircore Drilling	-	5 holes, 207m, 69 samples	4 holes, 165m, 55 samples	-	9 holes for 372m, 124 samples
Petrology	-	1		-	1 sample

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<p style="text-align: center;">el8970_mcleod</p> <p>Drillholes_data_file MCL_WASL1_DRI2002P.DAT</p> <p>Downhole_surveys_data_file MCL_WADS1_DOW2002P.DAT</p> <p>Downhole_lith/regolith/altn_data_file MCL_WADL1_DOW2002P.DAT</p> <p>Downhole_assays_data_file MCL_WADG1_DOW2002P.DAT</p> <p>Surface_Samples_data_file MCL_WASG1_SUR2002P.DAT</p> <p>Additional_assays_data_file MCL_WASG2_SUR2002P.DAT</p> <p style="text-align: center;">el8971_rameriz</p> <p>Drillholes_data_file RAM_WASL1_DRI2002P.DAT</p> <p>Downhole_surveys_data_file RAM_WADS1_DOW2002P.DAT</p> <p>Downhole_lith/regolith/altn_data_file RAM_WADL1_DOW2002P.DAT</p> <p>Downhole_assays_data_file RAM_WADG1_DOW2002P.DAT</p> <p>Surface_Samples_data_file RAM_WASG1_SUR2002P.DAT</p> <p>Additional_assays_data_file RAM_WASG2_SUR2002P.DAT</p>	<p style="text-align: center;">el9559_highlander</p> <p>Drillholes_data_file HIG_WASL1_DRI2002P.DAT</p> <p>Downhole_surveys_data_file HIG_WADS1_DOW2002P.DAT</p> <p>Downhole_lith/regolith/altn_data_file HIG_WADL1_DOW2002P.DAT</p> <p>Downhole_assays_data_file HIG_WADG1_DOW2002P.DAT</p> <p>Surface_Samples_data_file HIG_WASG1_SUR2002P.DAT</p> <p>Additional_assays_data_file HIG_WASG2_SUR2002P.DAT</p> <p style="text-align: center;">el9563_lowlander</p> <p>Surface_Samples_data_file LOW_WASG1_SUR2002P.DAT</p> <p>Additional_assays_data_file LOW_WASG2_SUR2002P.DAT</p>
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1 INTRODUCTION

This report summarises the work carried out by Newmont Exploration over the portions of EL's 8970, 8971, 9559 & 9563 that were relinquished on 26 March 2002. These tenements comprise the active licences within the Highland Rocks Project Area as located in Figure 1. A fifth lease (Icebox EL9562) also formed part of the Project area; however this lease was surrendered on 26 March 2002, and is the subject of a separate report.

2 TENEMENT DETAILS

A 12 month waiver of relinquishment was granted over EL's 8970, 8971, 9559 & 9563 on 17 April 2001. Details of the current relinquishment are provided in Table 1; this comprised a 50% relinquishment over EL's 8971 & 9563, and a 25% partial relinquishment over EL's 8970 & 9559 (granted on 19 April 2002). [Figure 2](#) shows the relinquished areas which are the subject of this report.

Table 1: Highland Rocks Project tenement history

TENEMENT		DATE OF		NUMBER OF BLOCKS		
Number	Name	Grant	Expiry	Prior to Relinquishment	Relinquished 26/03/02	Current
EL8970	McLEOD	29/04/99	28/04/05	102	26	76
EL8971	RAMERIZ	29/04/99	28/04/05	74	40	34
EL9559	HIGHLANDER	29/04/99	28/04/05	304	77	227
EL9563	LOWLANDER	29/04/99	28/04/05	8	4	4

3 LOCATION, INFRASTRUCTURE, ACCESS, SURVEY CONTROL & ENVIRONMENTAL PRACTICE

3.1 Location

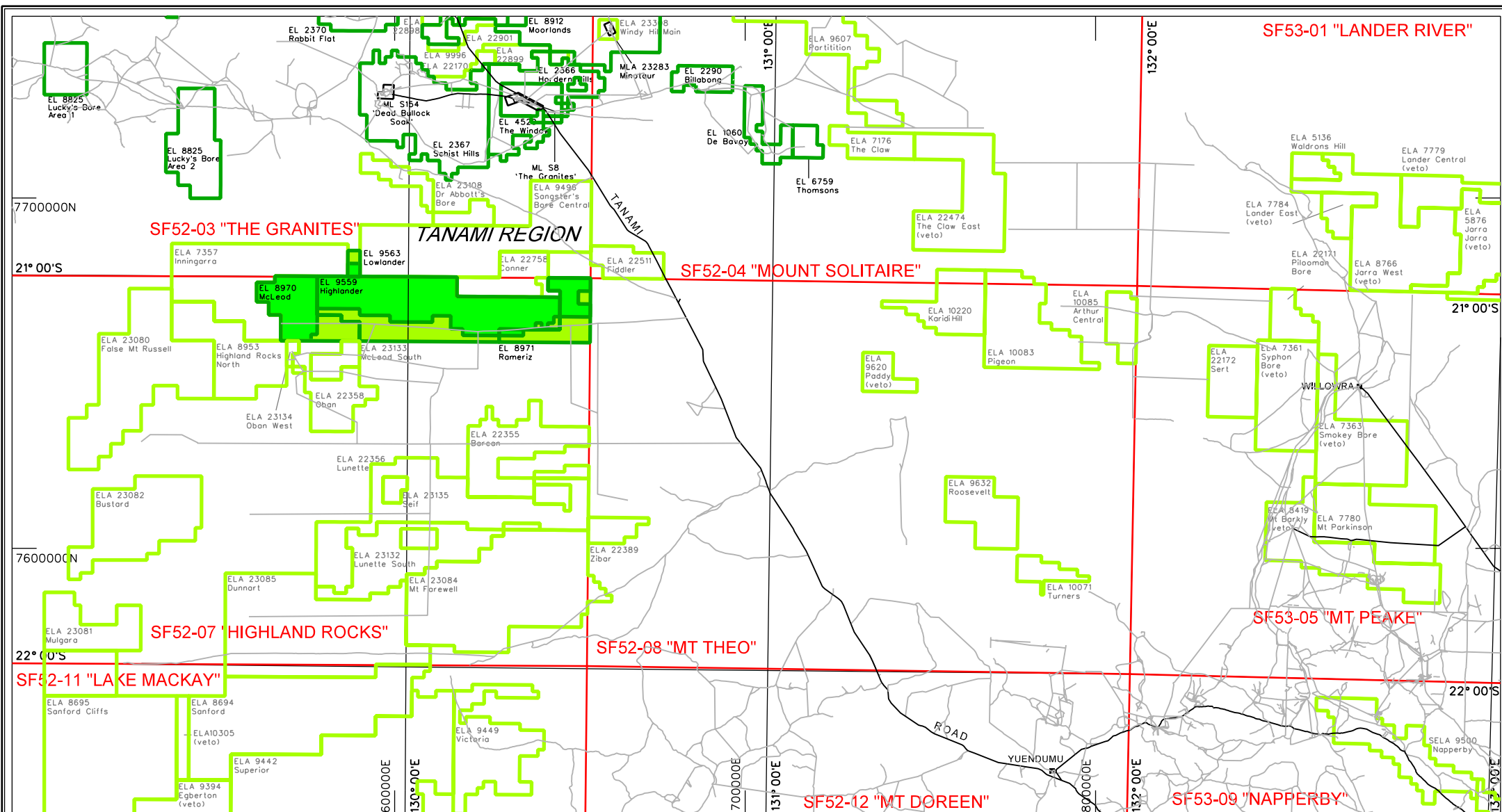
The tenements that comprise The Highland Rocks Project are situated approximately 500km northwest of Alice Springs in the Granites-Tanami region of the Northern Territory. These licences are located within the 1:250,000 map sheets SF52-3 (The Granites), SF52-7 (Highland Rocks) and SF52-8 (Mount Theo) as shown on Figure 1.

Geographically, the area lies in the western part of the Tanami Desert, a generally flat and featureless sand-covered landscape of spinifex and low scrub. All tenements within the Project Area are within Aboriginal freehold land.

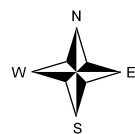
The annual average rainfall is of the order of 200mm, which is mostly derived from summer monsoonal and storm activity. Daily temperatures vary from minima of near freezing in winter to summer maxima of approximately 48°C. The area is devoid of surface water except in small soaks after heavy rain.

3.2 Infrastructure

Prior to the presence of Newmont Exploration in this part of the Tanami region, infrastructural support was almost completely lacking. Currently supplies are trucked or flown to the permanent camp at the Granites from Alice Springs. Telephone and fax using microwave links service this camp. Water is provided by two remote borefields. One borefield lies 35km east of The Granites (Billabong) and the other 10km north-east of Dead Bullock Soak. Power is locally generated at exploration bases and mine sites. The nearest settlements are the Rabbit Flat roadhouse 50km to the northwest of The Granites on the Tanami Road and Tanami Downs homestead 60km to the west. The nearest town is Yuendumu some 250km southeast of The Granites on the Tanami Road.



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0 75km

SCALE 1:1,500,000

UTM Zone 52 (AGD66)



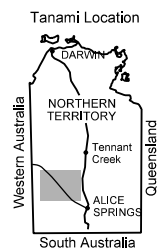
Normandy NFM Limited

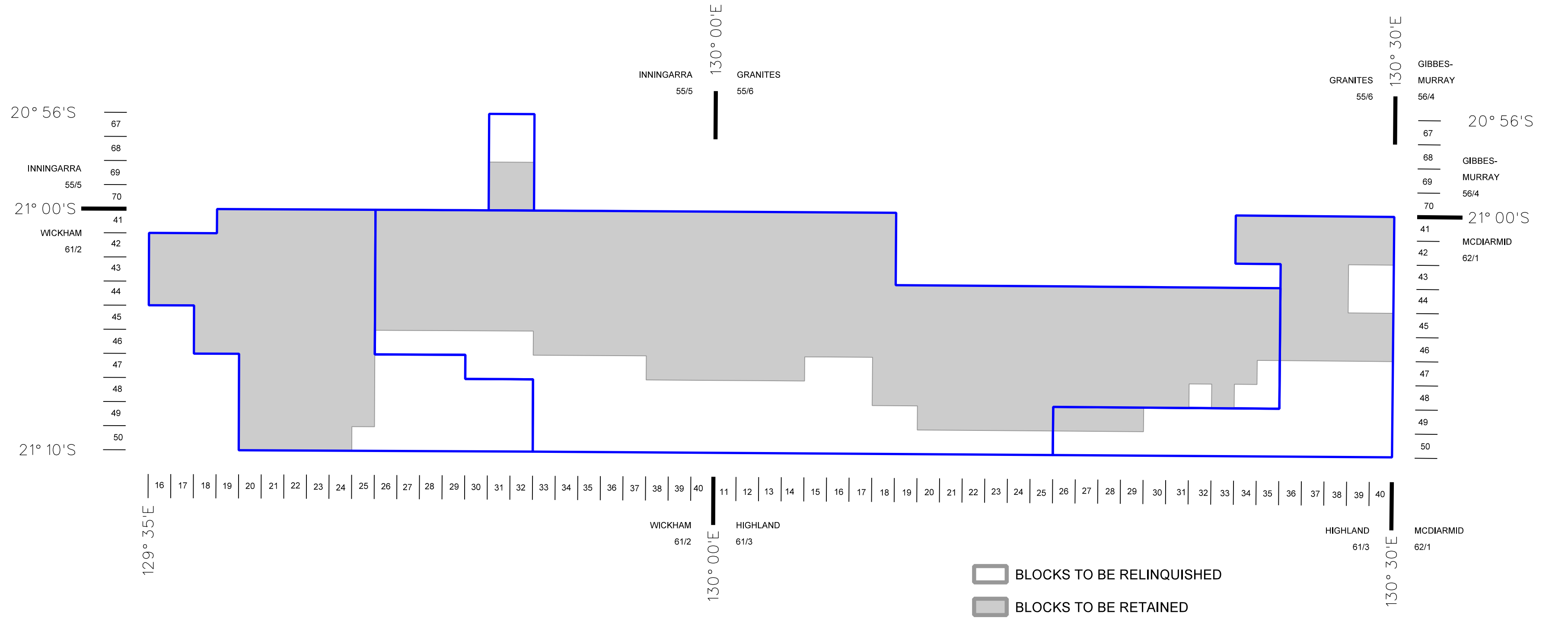
NORTH FLINDERS EXPLORATION

HIGHLAND ROCKS PROJECT TENEMENTS

TENEMENT LOCATION MAP

FIGURE 1
25/06/2002





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HIGHLAND ROCKS PROJECT
BLOCKS TO BE RELINQUISHED

26 March 2002

3.3 Access

Access to the area is via the Tanami Highway, which passes through Icebox, the eastern-most license. The main track that gives access to the central licenses is the east-west running Escondida track off the Tanami Road (Figure 1).

3.4 Survey Control

Survey control has been established only at the Mankeeper prospect in the Highlander lease. This grid was initially installed via a GPS-located origin and theodolite-surveying of crosslines. It was subsequently surveyed in from a differential GPS mark emplaced by the 1999 gravity survey (Daish). 18.5km of gridlines were installed incorporating eleven 200m spaced lines. Wooden grid pegs were installed at 50m intervals, with metal survey pegs every 200m along the baseline. RAB drilling at this prospect was located using this grid (however soil sampling was conducted using GPS units prior to grid installation).

3.5 Environmental Practice

Rehabilitation of exploration sites was carried out pursuant to Section 24(e) of the NT Mining Act and in accordance with the Departments "Guidelines for Rehabilitation of Exploration Sites";

all drillholes were capped on completion, and

all grid lines and tracks were rehabilitated when no longer needed.

4 PREVIOUS EXPLORATION

Gold mineralisation was discovered by Davidson in 1900 at a number of sites within the Tanami region. Gold was reported as having been found by Wickham in the 1920's in an area about 75km south west of gold occurrences at the Granites. However, there are no reliable records to substantiate this report. Hossfield, on his journey to Lake Mackay in 1940, collected a single sample consisting of surface stones from low ironstone gravel hills on the eastern margin of the Highland Rocks sheet. The sample returned an assay of 0.15g/t gold and 3.7g/t silver.

The area was mapped by the Bureau of Mineral Resources in the 1960's and 1970's, the results of which constitute the 1:250000 Mt. Theo, Mt. Solitaire, The Granites and Highland Rocks map sheets and explanatory notes. In 1994, the Australian Geological Survey Organisation conducted regolith mapping of the Highland Rocks using airborne gamma-ray and Landsat MSS data.

No records exist of exploration within this license prior to granting of the ground to Newmont Exploration.

5 GEOLOGY

The Project Area lies astride the Granites - Tanami and Arunta provinces. The relationship between the Granites - Tanami and Arunta provinces is not well understood. Basement metasedimentary sequences in both regions are thought to be lateral equivalents (Blake et al., 1975) and the sequences merge with one another (Stewart et al., 1984).

The Granites - Tanami and the Northern Arunta provinces contain similar rock sequences and share similar Palaeoproterozoic magmatic, metamorphic and deformational histories. Both comprise of a deformed Palaeoproterozoic basement turbiditic sequence of greywacke, quartz sandstone, siltstone, shale, and minor mafic rocks and their moderate to high grade metamorphic equivalents (schist, gneiss, quartzite, amphibolite). The Tanami Block also contains chert, pyritic carbonaceous sediments and ironstone, whereas the Arunta Block has minor calc-silicates and meta-felsic volcanics (felsic orthogneiss).

During the Barramundi Orogeny (1890-1850 Ma, Page and Williams, 1988), the sedimentary sequences in the Arunta were intruded by mafic rocks, deformed and metamorphosed up to amphibolite facies. Granite plutons were emplaced in the closing stages of the Barramundi Orogeny, at about 1820 - 1800 Ma.

In the Arunta province, platform quartzite-shale-carbonate sediments (Reynolds Range Group) unconformably overlie the Barramundi metamorphic rocks and probably represent correlatives of the Hatches Creek Group of the Davenport Province to the north (Blake et al. 1987). Deformation of the Hatches Creek Group preceded granite intrusion at about 1660 Ma (Page and Williams 1988) and involved an early phase of upright northwest-trending folds and a second episode of northeast-trending folds. Faulting, thrusting and metamorphism accompanied both episodes of folding.

The Arunta province remained tectonically active after the Barramundi Orogeny with several metamorphic and deformational events, including the ~1800 Ma Strangways granulite event (Shaw et al, 1984), the 1760-1650 Ma Aileron retrogressive event (Windrim and McCulloch, 1986) and the most recent Carboniferous Alice Springs Orogeny. In the northern Arunta region, significant granitic magmatism occurred at 1780-1770, 1713, 1635 and 1570 Ma.

The basement provinces described above are unconformably overlain by younger, Neoproterozoic and Palaeozoic sediments of the Birrindudu, Wiso, Georgina and Ngalia basins (Wells and Moss, 1983).

6 EL8970 - MCLEOD

The 1999 work program consisted of initial reconnaissance traverses incorporating opportunistic surficial sampling. A program of broad spaced aircore drilling was also completed to develop an understanding of the regolith, depth of cover and nature of the bedrock across the license.

The 2000 work program was dominated by extensive systematic regional vacuum drilling and lag and CRC sampling. This was conducted to provide a coherent geochemical and geological picture over regions of subcrop and shallow cover.

No work was conducted over the relinquished portion of the lease in 2001.

Work over the relinquished area included:

Lag Sampling	135 samples
Rock chip Sampling	8 samples
RAB Drilling	2 holes for 48m, 16 samples
Vacuum Drilling	24 holes for 207m, 70 samples

6.1 Rock chip sampling

Rock chip samples were collected opportunistically in tandem with the lag sampling programs from outcropping localities within the relinquished area as shown on Figure 4. Sample analysis details are summarised below. No samples returned either anomalous gold or arsenic results.

Table 2: EL8970 Rock chip details

Sample Number	Total	Laboratory	Method	Elements Analysed
757337-338 787740-741 787841-844	8	Genalysis	B*ETA	Au
			A/MS	Fe, Co, Ni, Cu, Zn, As, Mo, Ag, Sn, Sb, W, Pb, Bi, Th, U
Total: 8 samples				

6.2 Lag sampling

Lag samples were collected on a 500m × 500m spacing as displayed in Figure 4. Sample and analysis details are provided in Table 3. No anomalous gold results were returned from these samples, and the highest arsenic assay was 51ppm.

Table 3: EL8970 Lag sample details

Sample Number	Total	Laboratory	Method	Elements Analysed
3197587-588 3205147-154,167- 201,204-232,558- 563,740-776,778-783 3240322-326 5006920-926	135	Genalysis	B*ETA	Au
			A/MS	Fe, Co, Ni, Cu, Zn, As, Mo, Ag, Sn, Sb, W, Pb, Bi, Th, U
Total: 135 samples				

6.3 Vacuum drilling

The vacuum drilling conducted in 2000 was designed to extend the geochemical coverage of the licence in areas of interpreted shallow cover peripheral to subcrop/outcrop and in regions of poor lag development. Ideally three samples were collected from each hole: a VBCL in the soil horizon, a DSL at the cover/bedrock interface and a BOH sample. However in most cases at least one of the sampling media was not present.

Drilling was conducted on a 1-2km × 500m spacing. Table 4 provides sampling and analysis details, with hole locations displayed in [Figure 4](#).

The highest DSL result was 2.8ppb Au, with no anomalous As. The best BOH result was 1.8ppb Au, and no anomalous VBCL results were received.

Table 4: EL8970 Vacuum drilling details

Hole ID	Sample Type	Sample Total	Sample ID	Genalysis Method	Elements
MCLV0194-196 211-215 231-233 235-240 353-359	BOH	24	3237715-719,733-735,737-742,826-831,930-932	B * ETA	Au
				A/MS	As, Cu, Zn & Ag
	VBCL	24	3196926-932 3204117-121,137-139,141-146,259-261	MINBLEG	Au, Ag & Cu
				B * ETA	Au
	DSL	22	3201814-820 3207717-721,737-739,741-746,915	A / MS	Th, Mo, Sb, W, Bi, Sn, U, As, Pb, Ni, Fe, Cu, Zn, Co, Ag
Total: 24 holes for 207m, 70 samples					

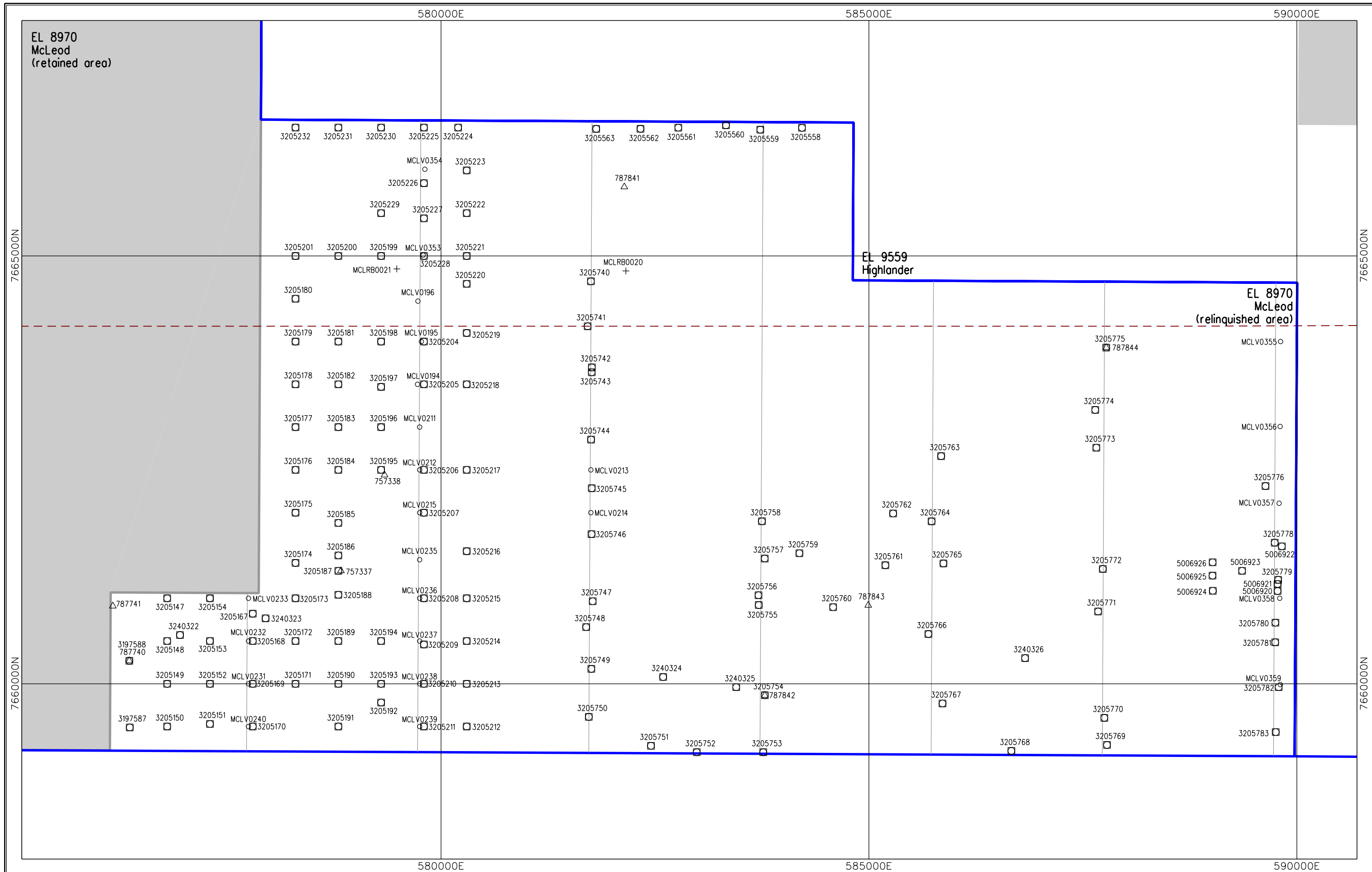
6.4 RAB drilling

MCLRB0020 & MCLRB0021 were drilled as a part of a water search in 2001 to provide water for the McLeod camp (Hole locations on [Figure 4](#)). Both holes intercepted granite under negligible cover, with no waterflow. Sample and analysis details are presented in Table 5.

No significant gold or arsenic assays were returned from this work.

Table 5: EL8970 RAB drilling details

Drillhole ID	Sample Type	Sample ID	No. of Samples	Genalysis Method	Elements
MCLRB0020 - 21	3m comp	5314049-64	16	B*ETA	Au
				B/MS	Fe, Co, Ni, Cu, Zn, As, Mo, Ag, Sn, Sb, W, Pb, Bi, Th, U
			Total: 2 holes for 48m, 16 samples		



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HIGHLAND ROCKS RELINQUISHMENT REPORT 2002
EL 8970 - McLEOD
SAMPLE & DRILLHOLE LOCALITY PLAN

25/06/2002

FIGURE 4

7 EL8971 - RAMERIZ

The 1999 work program over the relinquished areas of this lease consisted of initial reconnaissance traverses incorporating opportunistic surficial sampling. A program of broad spaced aircore drilling was also completed to develop an understanding of the regolith, depth of cover and nature of the bedrock across the EL. A sample from both the surface sampling was also sent for petrological analysis.

The 2000 work program was dominated by extensive regional lag and CRC sampling. These programs were conducted to provide a coherent geochemical and geological picture over regions of subcrop and shallow cover.

No significant work was conducted over the relinquished areas in 2001.

Work over the relinquished areas included:

Lag Sampling	383 samples
Rock chip Sampling	51 samples
Aircore Drilling	5 holes for 207m, 69 samples
Petrology	1 sample

7.1 Rock chip sampling

Rock chip samples were collected opportunistically in tandem with the lag sampling, as displayed in [Figures 5a & b](#). Sample and analysis details are presented in Table 6.

No anomalous results were returned from this work.

Table 6: EL8971 Rock chip sample details

Sample Number	Total	Genalysis Method	Elements Analysed
426884-896	51	B*ETA	Au
787983,987-990,993-994,996		A/MS	Fe, Co, Ni, Cu, Zn, As, Mo, Ag, Sn, Sb, W, Pb, Bi, Th, U
3078491			
32242047-211,213,230-232,234-239,241-242,250,254-261 & 263-267			
Total: 51 samples			

7.2 Lag sampling

Lag samples were collected on a 500m × 500m spacing across areas of subcrop and shallow cover, as displayed in [Figures 5a & 5b](#). Sample and analysis details are presented in Table 7.

The best result was a solitary 23.5ppb Au result (sample 3205823) towards the eastern tenement boundary. Unfortunately follow-up sampling failed to replicate this result. No other anomalous results were apparent.

Table 7: EL8971 Lag sample details

Sample Number	Total	Genalysis Method	Elements Analysed
3197658-661, 677-682,686, 692, 707-713,849,901-906 3205791-792,800-801,810-811,822-824, 829-831,836-846,852,860,870-874, 876-880,883-888,893,929-935, 3205987-3206000 3208001-53,55-120,171-177,179-190, 193-244,246-271 3240189-248,254-258,302,982	383	B*ETA	Au
		A/MS	Fe, Co, Ni, Cu, Zn, As, Mo, Ag, Sn, Sb, W, Pb, Bi, Th, U
Total: 383 samples			

7.3 Aircore drilling

Five aircore drillholes were drilled over the relinquished area as part of a regional regolith program in 1999. Holes are located on [Figures 5a & 5b](#). Sample and analysis details are presented in Table 8.

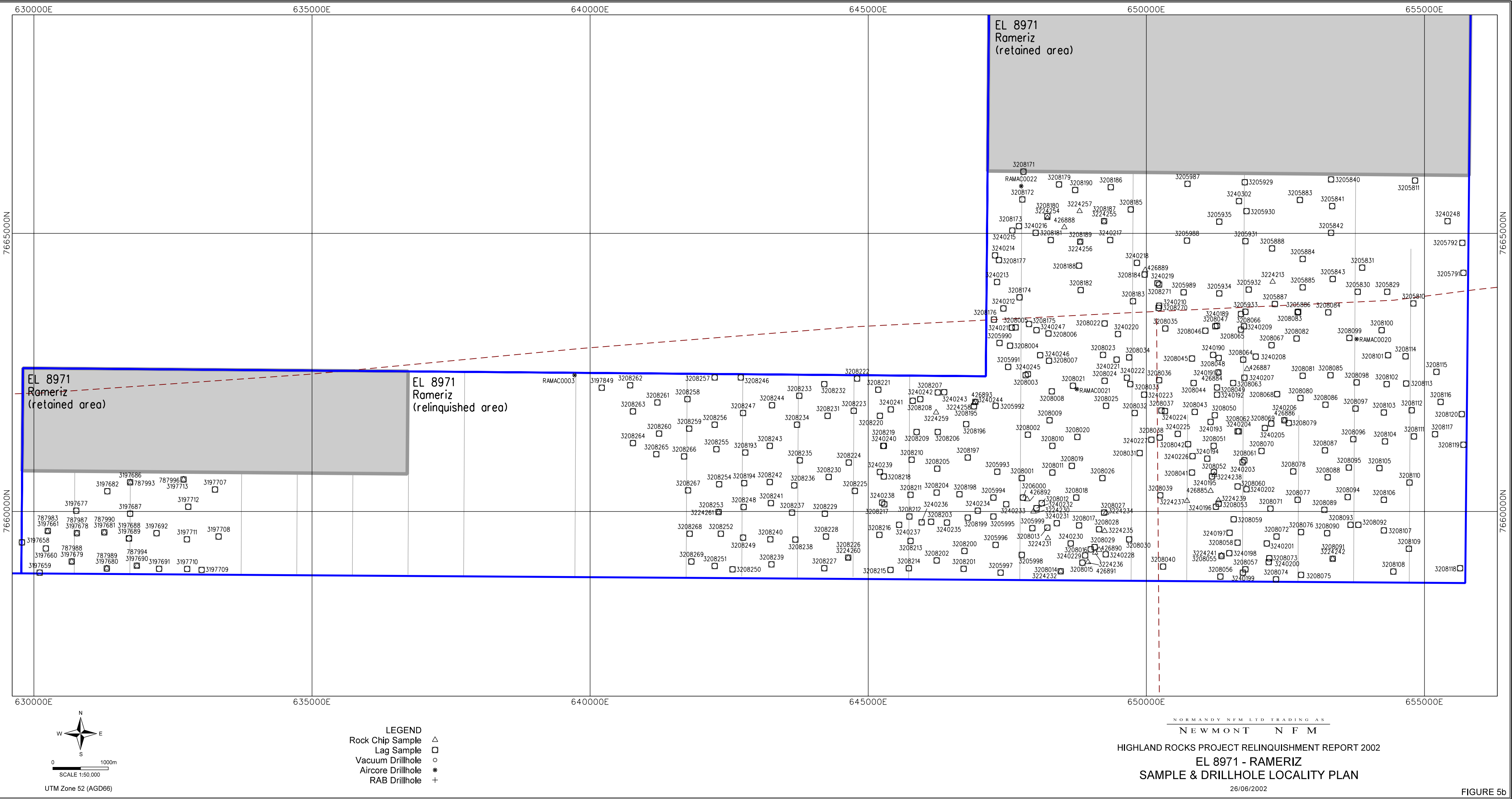
No significant gold or arsenic assays were returned from this work. All 5 holes intersected granitic basement under up to 18m of cover.

Table 8: EL8971 Aircore drilling details

Drillhole ID	Sample Type	Sample ID	No. of Samples	Genalysis Method	Elements
RAMAC0003 RAMAC0017 RAMAC0020 RAMAC0021 RAMAC0022	3m comp	3223159-3170 3223378-3384 3223404-3453	69	B*ETA	Au
				B/MS	Fe, Co, Ni, Cu, Zn, As, Mo, Ag, Sn, Sb, W, Pb, Bi, Th, U
				Total: 5 holes for 207m, 69 samples	

7.4 Petrology

One rockchip sample was submitted from the relinquished area to Pontifex and Associates for petological analysis (as sample P06531 in report P7993).



8 EL9559 - HIGHLANDER

The 1999 work program over the relinquished portions of this lease consisted of initial reconnaissance traverses incorporating opportunistic surficial sampling. A program of broad spaced aircore drilling was also completed to develop an understanding of the regolith, depth of cover and nature of the bedrock across the EL.

The 2000 work program was dominated by extensive systematic regional lag and CRC sampling, with more limited vacuum drilling. This was conducted to provide a coherent geochemical and geological picture over regions of subcrop and shallow cover.

No work was conducted over these areas in 2001.

Work over the relinquished areas included:

Lag Sampling	202 samples
Rock Chip Sampling	30 samples
Vacuum Drilling	14 holes for 123m, 40 samples
Aircore Drilling	4 holes for 165m, 55 samples

8.1 Rock chip sampling

Rock chip samples were collected opportunistically in tandem with the regional lag sampling program. Sample locations are presented in [Figures 6a, 6b & 6c](#), with sample details in Table 9.

There were no anomalous rockchip samples.

Table 9: EL9559 Rock chip sample details

Sample Number	Total	Laboratory	Method	Elements Analysed
787566-568,801,803-816,845-849,940-944,947,949 3078492	30	Genalysis	B*ETA	Au
			A/MS	Fe, Co, Ni, Cu, Zn, As, Mo, Ag, Sn, Sb, W, Pb, Bi, Th, U
		Total: 30 samples		

8.2 Lag sampling

Lag samples were collected at 500m × 500m spacings over areas of subcrop and interpreted negligible cover. Samples are located on [Figures 6a, 6b & 6c](#), with sample details and analyses provided in Table 10.

The highest gold assay received from these samples was 2.1ppb, with no anomalous arsenic.

Table 10: EL9559 Lag sample details

Sample Number	Total	Genalysis Method	Elements Analysed
3197656-657,716-720,817-819,830-831,839-842 3201701-707,710-761,763-773,785-788 3205531-557,564-620,777,784-790 3208272-277,281-298,302-304 3240174-176,327,334-337 5006927-930, 5033541	202	B*ETA	Au
		A/MS	Fe, Co, Ni, Cu, Zn, As, Mo, Ag, Sn, Sb, W, Pb, Bi, Th, U
Total: 202 samples			

8.3 Vacuum drilling

14 vacuum drillholes were drilled over areas of shallow cover proximal to the lag coverage. Ideally three samples were collected from each hole: a VBCL in the soil horizon, a DSL at the cover/bedrock interface and a BOH sample. However in most cases at least one of the sampling media was not present.

Drilling was conducted at 500m spacings. Table 11 provides sampling and analysis details, with hole locations displayed in [Figures 6a, 6b & 6c](#).

There were no anomalous VBCL, BOH or DSL samples.

Table 11: EL9559 Vacuum drilling details

Hole ID	Sample Type	Sample Total	Sample / Drillhole ID	Genalysis Method	Elements
HIV0005-9, 12-14,16-21	BOH	14	3235592-597 3237933-936,938-942	B * ETA	Au
				A/MS	As, Cu, Zn & Ag
	VBCL	14	3204005-009,262-271	MINBLEG	Au, Ag & Cu
				B * ETA	Au
	DSL	12	3207605-609,916-918,920-923	A / MS	Th, Mo, Sb, W, Bi, Sn, U, As, Pb, Ni, Fe, Cu, Zn, Co, Ag
Total: 14 holes for 123m, 40 samples					

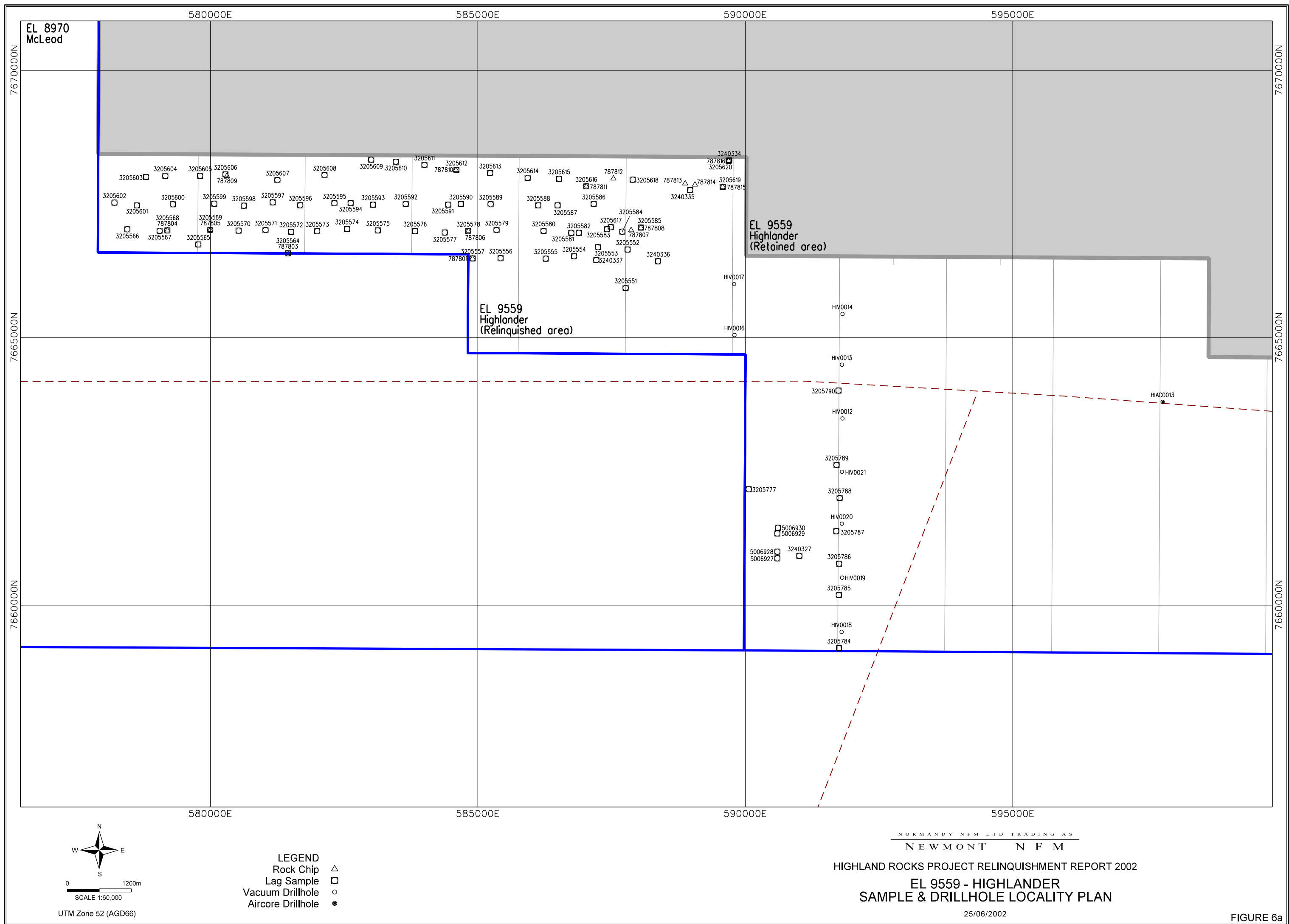
8.4 Aircore drilling

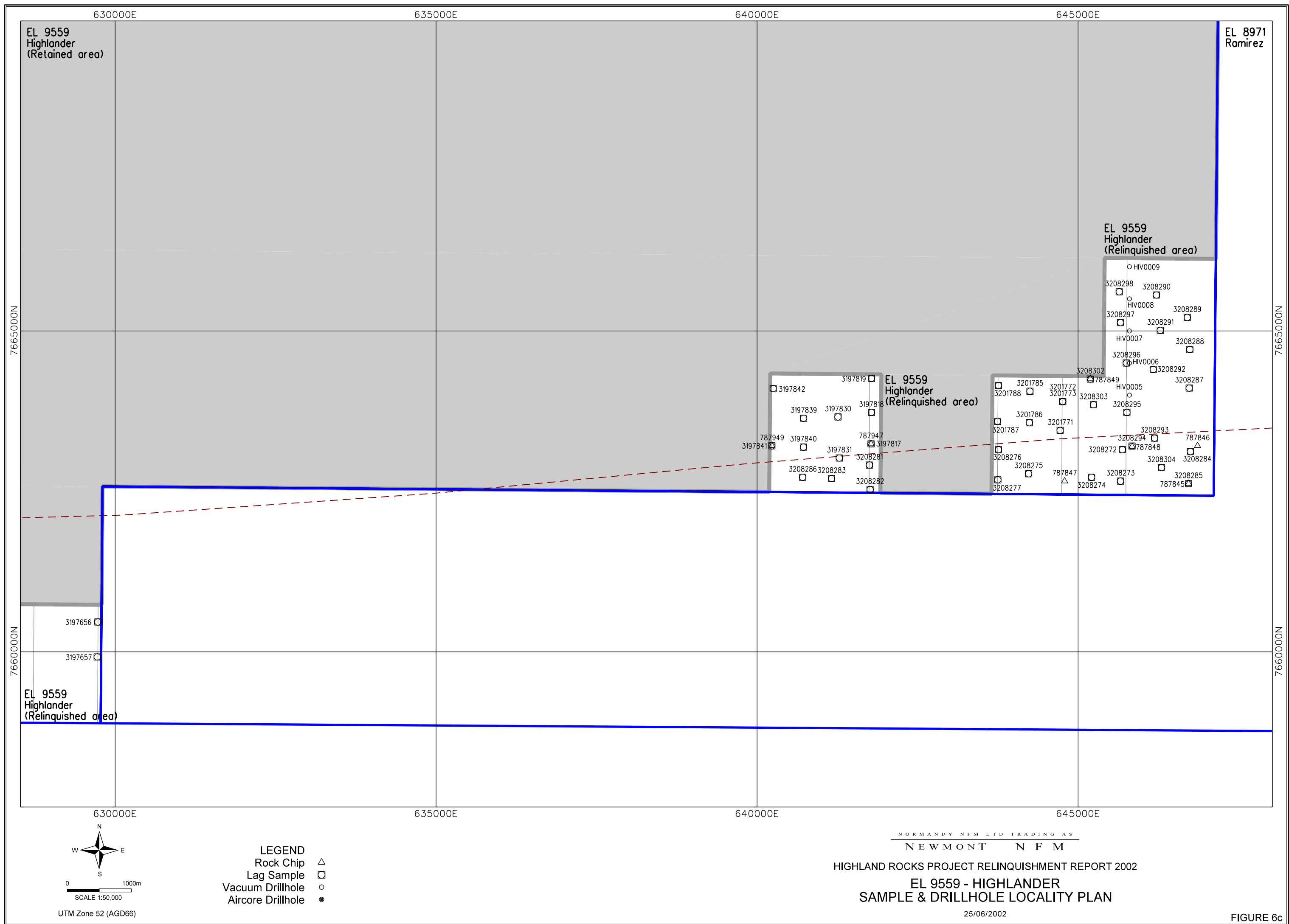
Four aircore drillholes were drilled over the relinquished area as part of the regional regolith program in 1999. Holes are located on [Figures 6a, 6b & 6c](#). Sample and analysis details are presented in Table 12.

No significant gold or arsenic assays were returned from this work. All 4 holes intersected granitic basement under up to 24m of cover.

Table 12: EL9559 Aircore drilling details

Drillhole ID	Sample Type	Sample ID	No. of Samples	Genalysis Method	Elements
HIAC0013-16	3m comp	3223023-3077	55	B*ETA	Au
				B/MS	Fe, Co, Ni, Cu, Zn, As, Mo, Ag, Sn, Sb, W, Pb, Bi, Th, U
			Total: 4 holes for 165m, 55 samples		





9 EL9563 - LOWLANDER

EL 9563 is located on the northern boundary of the Highlander EL (9559). Access to this ground was granted at the same time as the other Highland Rocks Project licenses. Unfortunately access to the lease is significantly hindered by the large E-W trending dunes along this boundary. In particular the asymmetrical nature of these dunes, with steeper northern slopes than southern, presented a formidable obstacle on the return journey, even in a Toyota Landcruiser.

Nevertheless, a minor amount of surficial reconnaissance work was carried out as listed below. A small amount of geophysical and airphoto interpretation was also conducted over the lease.

Work over the relinquished area included:

Rock Chip Sampling 13 samples

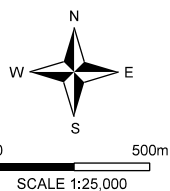
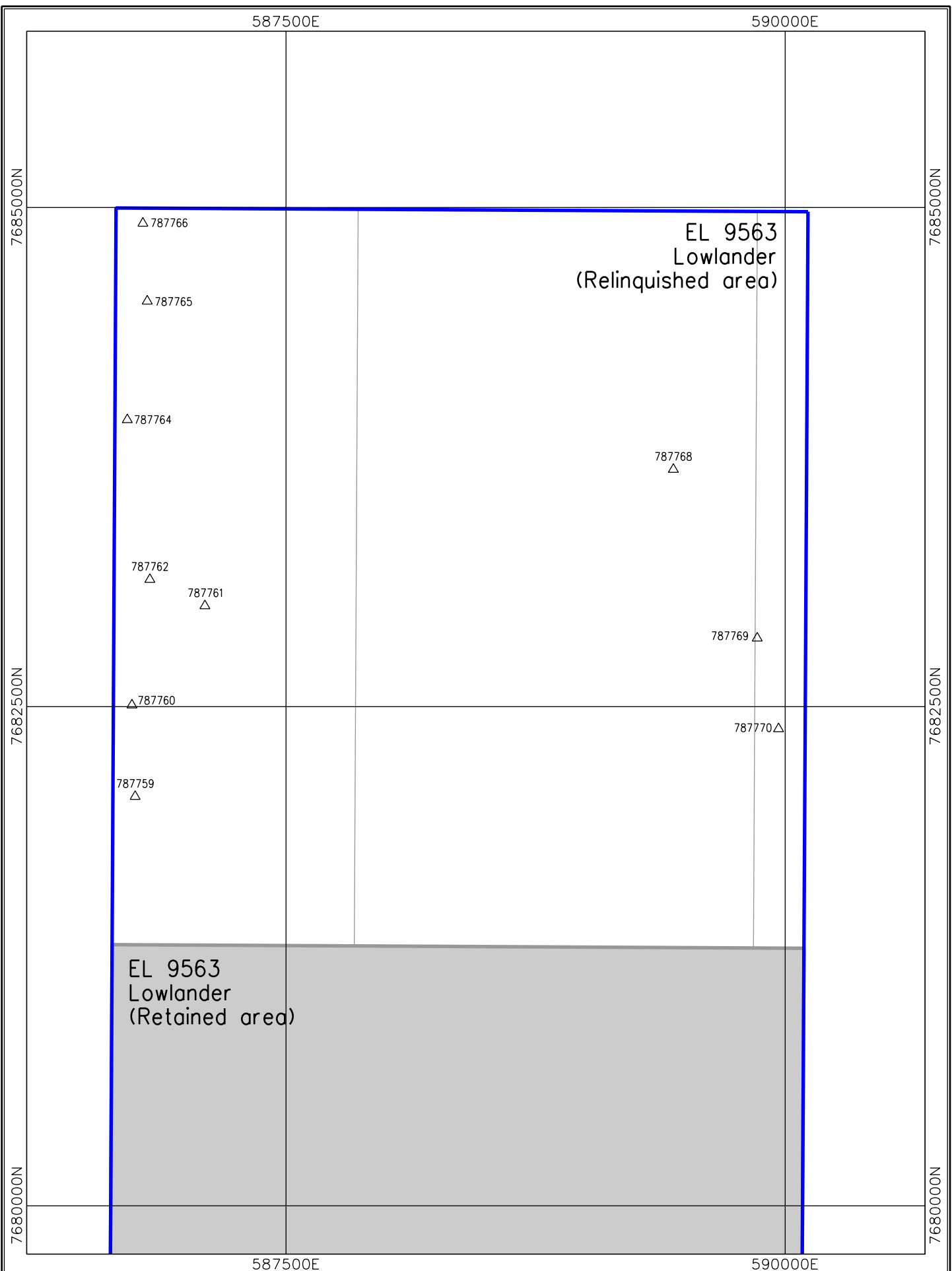
9.1 Rock chip sampling

Ten rock chip samples were collected during a reconnaissance traverse in 2000, with all samples composed of calcrete. Samples are located in [Figure 3](#), with sample details and analyses supplied in Table 13.

Table 13: EL9563 Rock chip sampling details

Sample Number	Total	Laboratory	Method	Elements Analysed
787759 – 763	10	Genalysis	B*ETA	Au
787764 - 766			A/MS	Fe, Co, Ni, Cu, Zn, As, Mo, Ag, Sn, Sb, W, Pb, Bi, Th, U
787768 - 770				
Total: 13 samples				

No anomalous results were returned.



UTM Zone 52 (AGD66)

NORMANDY NFM LTD TRADING AS
NEWMONT NFM

HIGHLAND ROCKS RELINQUISHMENT REPORT 2002

EL 9563 - LOWLANDER
ROCK CHIP LOCALITY PLAN

25/06/2002

FIGURE 3

10 REFERENCE LIST / ANNUAL REPORT BIBLIOGRAPHY

REFERENCES

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Reports to NT DME

- Zdziarski, A. & Whittaker, E., 2000. First Annual Report for the Highland Rocks Project for the 1999 Field Season. Normandy NFM Ltd. RN26545
- Zdziarski, A., 2001. Second Annual Report for the Highland Rocks Project for the 2000 Field Season. Normandy NFM Ltd. RN28005
- Zdziarski, A., 2002. Third Annual Report for the Highland Rocks Project for the 2001 Field Season. Normandy NFM Ltd. RN29532
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APPENDIX 1

Digital Data

APPENDIX 2

Petrological Descriptions

Report #	Author	Date	Work	Geo	Prospect					Notes	Highland Rocks
Petrology #	Count	ID	Type	NFMSample #	From To	Easting	Northing				EL8971

Highland Rocks

EL8971

Ramirez

P7993	PO	11/07/2000	TS	EJW	Ramirez (EL)	Ramirez and McLeod prospects					
P06531	1		OC	3224263		653518	7673107	Silcrete with abundant grains of quartz, and minor fragments of quartzite, incorporated within a cement of hematite and extremely fine clouded possible quartz-anatase-zircon.			

APPENDIX 3

Sample & Survey Methodology

Geophysical Surveys

Ground Magnetism

All ground magnetic surveys were effected by Normandy NFM personnel.

Total Magnetic Intensity (TMI) readings were taken at 10m intervals (unless otherwise stated) using a G856 proton precession magnetometer and a pole height of 1.8m. Diurnal measurements were taken using a second magnetometer as a base station, with readings taken every 30 seconds. On completion of the survey, diurnal variations were removed from the data using the MAGPAC program.

Data was collected over the surveyed lines which were pegged every 100m and clearly annotated with the line number and location coordinates. The placement of these traverses was achieved by using a Garmin GPS II+.

Geochemical Sampling Techniques/Sample Descriptions

SURFACE SAMPLES

CRC (Composite Rock Chip)

A composite technique is adopted whereby approximately 4-5kg of material comprising 10 to 15 grab samples is collected from within a 2m radius of the designated sample site.

GPS equipment is used to determine reconnaissance sample locations in the absence of a local grid.

LAG/DSL (Drill-derived Stone Line)

Lag is any hard residual surficial material varying from a coarse sand to rock fragments.

The sample is obtained via a shallow surface scrape, sieved to obtain approximately 250g of +2mm material and collected into a plastic zip seal bag.

Sample sites are not marked. Sample type, quality, description and size is noted at the time of collection and recorded via codes outlined in Section 6.2.6.

The samples are submitted for multielement analysis to provide a screen for other mineralisation styles.

A **DSL** sample is a drill derived "buried" lag sample. Other than using a drill rig to bring the sample to surface, collection methods are identical to lag.

The lag sample logging scheme is described in Appendix 1.

SOIL

Soil material is sieved to obtain approximately 200g, with the sieve size varying according to the program, but generally a -180µm fraction is collected. The sample is collected into a plastic zip-seal bag which is enclosed into another to prevent contamination during transport.

BCL/BLEG (Bulk Cyanide Leach/Bulk Leach Extractable Gold)

Many of the low relief areas have variable amounts of drainage sediments (typically arenitic alluvium +/- clay horizons) which are sampled via a bulk cyanide leach. Sufficient soil is sieved to obtain 5kg of -80# sample which was double bagged within a plastic liner to prevent cross contamination.

Standard BLEG analysis (Au, Ag and Cu) is performed by Genalysis.

The samples may be subcategories in the NFM database to distinguish sample derivation:

Code	Derivation	Description
VBCL	drill derived	usually vacuum, however some are sourced from RAB drillholes (parent drillhole listed next to sample number in datasheets)
DBCL	drainage	stream sediment from a defined drainage channel
SBCL	soil	surface BCL sample
Note: Some drill derived samples have been coded SBCL where the sample represented a buried residual soil.		

VACUUM DRILLING & SAMPLING

Vacuum drilling is undertaken by Normandy NFM using EDSON 200 series vacuum drill rigs. All holes are plugged and back filled upon completion and are only marked if positioned on an established grid.

DSL Samples

As described above. The sample is sieved to a +2mm fraction and approximately 250g of which is collected into a plastic zip seal bag.

Vac/BOH Samples

A perspex tube collects the sample that retains relative downhole depth proportions. The geologist may choose to sample a particular horizon of interest as a selected sample or collect a composite sample. For this reason, sample intervals are variable. Specific sample intervals are listed in the drill hole logs.

RAB AND AIRCORE DRILLING & SAMPLING

RAB and aircore drilling was undertaken by Century Drilling Pty Ltd. All holes are rehabilitated on completion of drilling by using available drill spoil to back fill the hole.

Composite Samples

RAB and aircore drillholes are typically composite sampled at 3m intervals where the geology is considered to be prospective. Depending on the program budget, the drillhole may be comprehensively sampled from surface, sampled only at particular lithologies or have been restricted to a bottom of hole sample. Drill spoil is riffle split to obtain 2kg composite samples. While this sample is customarily a 3m composite sample, the sample interval is ultimately left to the geologist's discretion. The sample intervals are clearly documented in the drillhole logs accompanying this report.

BIBLIOGRAPHIC DATA SHEET

REPORT NUMBER	29900
REPORT TITLE	First Relinquishment Report for EL'S 8970, 8971, 9559 & 9562 for the period 29 April1999 to 28 March 2002
PROSPECT NAME	McLeod, Rameriz, Highlander and Lowlander
TENEMENT NUMBERS	8970, 8971, 9559 & 9563
OWNER/JV PARTNERS	Normandy NFM 100%
COMMODITIES	Gold
TECTONIC UNITS	Tanami Inlier
STRATIGRAPHIC UNITS	Unspecified
1:250,000 MAPSHEET(S)	The Granites SF52-03 Mt Theo SF52-08
1:100,000 MAPSHEET(S)	Wickham 4855 Highland 4955
KEYWORDS	Reconnaissance, rock chip sampling, lag sampling, soil sampling, vacuum drilling, RAB drilling, aircore drilling, geophysics, ground magnetics

Northern Territory Department of Mines and Energy

REPORT METADATA FORM

(MINERAL EXPLORATION)

PART A (DME USE ONLY)					
Report Number	Date Received				
Collation	___ pp.	___ figs	___ logs	___ maps	___ apps.
Media	___ CDs	___ 1.5"	___ Exab.	___ DLT	___ vols.

PART B					
Tenure Number(s)	8970, 8971, 9559 & 9563		Company Report Number	29900	
Report Date	July 2002		Anniversary Date	29 April	
Group Project Name	Highland Rocks Project				
Report Title	First Relinquishment Report for EL'S 8970, 8971, 9559 & 9562 for the period 29 April 1999 to 28 March 2002				
Author(s)	Alex Zdziarski				
Corporate Author(s)	Newmont Exploration				
Maps 1 : 250 000	SF52-03	SF52-07			
Maps 1 : 100 000	4855	4955			

Tectonic Units			
<input type="checkbox"/> Amadeus Basin	<input type="checkbox"/> Carpentaria Basin	<input type="checkbox"/> McArthur Basin	<input type="checkbox"/> Pine Creek Inlier
<input type="checkbox"/> Arafura Basin	<input type="checkbox"/> Daly Basin	<input type="checkbox"/> Money Shoal Basin	<input type="checkbox"/> Simpson Basin
<input type="checkbox"/> Arnhem Inlier	<input type="checkbox"/> Dunmarra Basin	<input type="checkbox"/> Murphy Inlier	<input type="checkbox"/> South Nicholson Basin
<input type="checkbox"/> Arunta Inlier	<input type="checkbox"/> Eromanga Basin	<input type="checkbox"/> Musgrave Block	<input type="checkbox"/> Tennant Creek Inlier
<input type="checkbox"/> Birrindudu Basin	<input type="checkbox"/> Fitzmaurice Mobile Zone	<input type="checkbox"/> Ngalia Basin	<input type="checkbox"/> Victoria Basin
<input type="checkbox"/> Bonaparte Basin	<input type="checkbox"/> Georgina Basin	<input type="checkbox"/> Ord Basin	<input type="checkbox"/> Warburton Basin
<input type="checkbox"/> Browse Basin	<input type="checkbox"/> Granites-Tanami Inlier	<input type="checkbox"/> Pedirka Basin	<input type="checkbox"/> Wiso Basin
Other structural units			

Stratigraphic Names			

AMF Thesaurus Terms - General			
<input type="checkbox"/> Geological mapping	<input type="checkbox"/> Regional Geology	<input type="checkbox"/> Stratigraphy	<input type="checkbox"/> Structural Geology
<input type="checkbox"/> Metallogenesis	<input type="checkbox"/> Remote sensing	<input type="checkbox"/> Imagery	<input type="checkbox"/> Landsat
<input type="checkbox"/> Petrology	<input type="checkbox"/> Lithology	<input type="checkbox"/> Literature reviews	<input type="checkbox"/> Metamorphism
<input type="checkbox"/> Lineaments	<input type="checkbox"/> Photogeology	<input type="checkbox"/> Reconnaissance	<input type="checkbox"/> Indicator minerals
Other terms ...			

AMF Thesaurus Terms - Target Minerals			
<input type="checkbox"/> Gold	<input type="checkbox"/> Silver	<input type="checkbox"/> Tin	<input type="checkbox"/> Diamonds
<input type="checkbox"/> Lead	<input type="checkbox"/> Copper	<input type="checkbox"/> Platinum Group Minerals	<input type="checkbox"/> Industrial Minerals
<input type="checkbox"/> Zinc	<input type="checkbox"/> Uranium	<input type="checkbox"/> Bauxite	

Others...			
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AMF Thesaurus Terms - Mining			
<input type="checkbox"/> Environmental impact surveys	<input type="checkbox"/> Feasibility studies	<input type="checkbox"/> Geostatistics	<input type="checkbox"/> Metallurgy
<input type="checkbox"/> Ore reserves	<input type="checkbox"/> Resource assessment	<input type="checkbox"/> Mineral resources	<input type="checkbox"/> Mining geology
<input type="checkbox"/> Mine design	<input type="checkbox"/> Mine drainage	<input type="checkbox"/> Mine evaluation	<input type="checkbox"/> Pits
Other terms ...			

AMF Thesaurus Terms - Geophysical Surveys			
<input type="checkbox"/> Aerial magnetic surveys	<input type="checkbox"/> Aerial radioactivity surveys	<input type="checkbox"/> Aerial EM surveys	<input type="checkbox"/> Ground EM surveys
<input type="checkbox"/> Gravity surveys	<input type="checkbox"/> Geophysical anomalies	<input type="checkbox"/> Gravity anomalies	<input type="checkbox"/> Bouger anomaly maps
<input type="checkbox"/> Sirotek surveys	<input type="checkbox"/> Ground magnetic surveys	<input type="checkbox"/> IP surveys	<input type="checkbox"/> Resistivity surveys
<input type="checkbox"/> Seismic surveys	<input type="checkbox"/> Magnetic anomalies	<input type="checkbox"/> Geophysical interpretation	<input type="checkbox"/> Geophysical logs
Other terms ...			

AMF Thesaurus Terms - Geochemical Exploration – Surface sampling			
<input type="checkbox"/> Geochemical sampling	<input type="checkbox"/> Stream sediment sampling	<input type="checkbox"/> Rock chip sampling	<input type="checkbox"/> Bulk sampling
<input type="checkbox"/> Soil sampling	<input type="checkbox"/> Heavy mineral sampling	<input type="checkbox"/> Geochemical anomalies	<input type="checkbox"/> Assaying
<input type="checkbox"/> Isotope geochemistry	<input type="checkbox"/> Whole rock analysis	<input type="checkbox"/> X ray diffraction	<input type="checkbox"/> Sample location maps
Other terms ...			

AMF Thesaurus Terms - Geochemical Exploration - Drill sampling			
<input type="checkbox"/> Diamond drilling	<input type="checkbox"/> RAB drilling	<input type="checkbox"/> Percussion drilling	<input type="checkbox"/> Air drilling
<input type="checkbox"/> RC drilling	<input type="checkbox"/> Rotary drilling	<input type="checkbox"/> Vacuum drilling	<input type="checkbox"/> Auger drilling
<input type="checkbox"/> Drill core	<input type="checkbox"/> Drill cuttings	<input type="checkbox"/> Drill hole logs	<input type="checkbox"/> Drill core analysis
Other terms ...	<input type="checkbox"/> Aircore drilling		

Drilling Type	No. of holes	Hole name(s)
Diamond		
Percussion		
Vacuum		
RAB		
Auger		
Aircore		
RC		
Rotary		
Other ...		

Mine / Deposit / Prospects	Location - AMG	Location - Datum
Mines		
Deposits		
Prospects		
