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ACACIA RESOURCES LTD

EXPLORATION LICENCE 9361 - WANDIE TRACK

SECOND PARTIAL RELINQUISHMENT REPORT

23rd NOVEMBER 1995 TO 22nd NOVEMBER 1998

Author: Jane Ham

Drafting: Amanda Horner

Report No: 08.10018

Date: December 1998

Copy No: 1

1:250 000 **Pine Creek** **SD52-8**
1:100 000 **Pine Creek** **5270**

Distribution:

1	NT Department of Mines & Energy
2	Nullarbor Holdings Limited (Sydney)
3	Acacia Resources (Darwin)
4	Acacia Resources (Melbourne)
5	Acacia Resources (URGM)
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SUMMARY

Exploration Licence (EL) 9361, in the Pine Creek area, NT, is currently being explored by Acacia Resources Limited. The centre of the tenement is located 4km east of the township of Pine Creek and approximately 15km south east of Acacia's Union Reefs Gold Mine and treatment facilities. A partial relinquishment of 1 block was made in October 1998 and this report details all the work conducted by Acacia in the relinquished area. The southern 2 blocks of the licence have been retained and are incorporated into the Bonrook Joint Venture under an agreement signed in December 1994 with Nullarbor Holdings Limited.

The work completed in the relinquished portion of the licence includes:

- Construction of a grid baseline for a total of 0.6 line km
- Construction of 1.75 line km of cross line gridding
- Collection of 13 auger and 63 vacuum soil samples
- Detailed aeromagnetic and radiometric survey
- Regional gravity survey
- Regional geophysical data compilation and geological interpretation

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1. INTRODUCTION

Exploration Licence (EL) 9361, in the Pine Creek area, NT, is currently being explored by Acacia Resources Limited. The centre of the tenement is located approximately 4 km east of the Pine Creek township and 15km south-east of the Union Reefs Gold Mine and treatment facilities. A partial relinquishment of one block was made on 26 October 1998 and the two remaining southern blocks are Under a joint venture agreement with Nullarbor Holdings Limited signed in July 1996.

This report details all work carried out in the relinquished portion of the licence.

2. TENEMENT STATUS

Wandie Track was granted to Acacia Resources Limited on the 23rd November 1995 for a period of 6 years. The northern block (100% Acacia) of the licence was relinquished on 26 October 1998. The two remaining southern blocks belong to the Bonrook Joint Venture between Acacia Resources Limited and Nullarbor Holdings Limited made on the 4th July 1996. Acacia Resources now has a 79.9% interest in these two blocks through sole funding of exploration activities.

The details of the blocks relinquished and retained are given below:

BLOCK RELINQUISHED:
Map No. 14/6-11 Pine Creek
Blocks: 33/59 Total of 1 Block

BLOCKS RETAINED:
Map No. 14/6-11 Pine Creek
Blocks: 33/60, 34/60 Total of 2 Blocks

2.1. Aboriginal Areas Protection Authority Clearance

Aboriginal Areas Protection Authority (AAPA) certificate C97/058 expiring 6th May 1999 covers the lease area. No sites are recorded on the tenement.

3. LOCATION AND ACCESS

The centre of EL 9361 is located approximately 4km east of the township of Pine Creek in the Northern Territory, (Figure 1). The licence area can be accessed from the Stuart Highway at Pine Creek, via the Pine Creek Airstrip turn off and then the old "Wandie Track".

The licence area straddles the boundary of Bonrook Station and Mary River West Station. Keys for locked gates along the Wandie Track must be sought from the station manager's residence at Bonrook Station.

4. REGIONAL GEOLOGY

EL 9361 is located in the Pine Creek area in the central Pine Creek Geosyncline (Figure 2). The geosyncline contains Early Proterozoic metasedimentary rocks resting on a gneissic and granitic Archaean basement. The metasediments represent a preserved basinal sequence up to 14km thick (Needham et al., 1980). These rocks were tightly folded and metamorphosed to greenschist or amphibolite facies at about 1890 to 1870 Ma (Ferguson, 1980).

The geosynclinal sequence is intruded by transitional igneous rocks including predeformational dolerite lopoliths and dykes and post deformational granites. Largely undeformed platform cover of Middle and Late Proterozoic, Cambro-Ordovician and Mesozoic strata rest on these with marked unconformity.

EL 9361 lies in the southern part of a neck of metasediments, assigned to Burrell Creek Formation (Stuart-Smith, 1987), which separates two lobes of the Cullen Batholith. This metasedimentary neck contains both the Union Reefs (Au) and Pine Creek (Au) ore bodies as well as numerous areas of historic workings.

5. LOCAL GEOLOGY

EL 9361 is extensively covered by soil, overlying Burrell Creek (Pfb) and Mt Bonnie (Pso) Formation which have been intruded by granitic rocks of the Allamber Springs Granite (Pgca) and undifferentiated granitoids (Pgc), (Figure 2). Swarms of quartz and quartz breccia veins are present along the western margin of the granites. Minor hornfelsing is apparent around the veins.

In the south-eastern portion of the licence area, Quaternary alluvium (Qa) and deep humic soils (Qf) occur in areas of low topography and along drainage channels. A distinct conglomerate horizon exists within the Burrell Creek Formation in the eastern portion of the tenement near the margin of the Allamber Springs Granite.

There are no known gold workings in the tenement.

6. WORK COMPLETED PERIOD ENDING 22 NOVEMBER 1996

6.1. Review and Compilation of Previous Explorers

Work by previous explorers was compiled and entered into the Acacia Resources data base. Several companies have held tenure over the exploration licence, including Greater Consultancies and Nullarbor Holdings/Solomon Pacific Resources.

In 1988 EL 6255 covering a portion of the current EL 9361, was granted to the Greater Consultancies Pty Ltd for six years. The Licence was cancelled by the NTDME in June 1992. Work completed included detailed interpretation of Aerodata airborne magnetics, ground magnetics, airphoto lineament studies, mapping and rockchip sampling (Witham 1990).

6.2. Gridding and Soil Sampling

A total of 0.1 line km of crossline gridding was completed on Acacia's Bonrook exploration grid (N-S Baseline 324° magnetic). Galvanised droppers were placed every 50m on the single line within the southern part of the relinquished area.

A total of 4 soil samples were collected using a Toyota mounted auger. Samples of 1.5-2 kg in weight were collected every 25m from the B_2/C soil horizon.

The samples were submitted to Assaycorp Laboratories in Pine Creek, where they were dried, crushed and pulverised to a nominal 90% passing 100µ. Samples where then analysed for low level Au by Fire Assay (FALL method) and Cu, Pb, Zn and As by AAS. Standards were submitted every 30 samples. Soil sample ledgers and analyses are presented in Appendix 1 and 2 respectively. Sample locations and results are shown in Figures 3 and 4 respectively.

6.3. Aerial Photography

Airesearch Mapping of Darwin were contracted to fly 1:25,000 scale color aerial photography over the Wandie Track licence.

7. WORK COMPLETED PERIOD ENDING 22 NOVEMBER 1997

7.1. Gridding and Soil Sampling

A portion totalling 0.6 line km of a regional grid baseline was completed in the northern portion of the relinquished area. The grid was constructed by Microsurvey on the Pine Creek regional grid orientation (N-S baseline 331.5^0 magnetic). A total of 0.2 line km of cross line gridding was also completed in preparation for soil sampling.

Nine soil samples were collected from the B_2/C soil horizon using a Toyota mounted auger rig with a maximum sampling depth of 4m. The samples were submitted to Assaycorp Laboratories in Pine Creek, where they were dried, crushed and pulverised to a nominal 90% passing 100µ. Samples where then analysed for low level Au by Fire Assay (FALL method) and Cu, Pb, Zn and As by AAS. Standards were submitted every 30 samples. Soil sample ledgers and analyses are presented in Appendix 1 and 2 respectively. Sample locations and results are shown in Figures 3 and 4 respectively.

7.2. Aeromagnetic and Radiometric Survey

Universal Tracking Systems (UTS) were contracted to fly a detailed aerial magnetic and radiometric survey over a portion of the Acacia managed tenements in the Pine Creek region, including the Wandie Track lease.

The total area covered during the survey was ~ 127 km^2 for ~ 2540 line km on an orientation of 060°. The flight lines were planned to be 50m apart with a mean terrain clearance of 20m. Tie lines were flown at 500m spacing. In-line sampling was specified at 4 - 5 metres or less with a required magnetometer sensitivity of less than 0.001nT and an instrumental noise envelope not exceeding 0.2nT. Navigation was by real time differential GPS to achieve accurate lateral and height positioning. A spectrometer with a detector size of 33 litres was included in the survey equipment but radiometric data was not collected from every site. Full details on the survey specifications are in Appendix 3.

Test lines were flown at the start and finish of daily data collection to demonstrate validity and repeatability of Gamma Ray data. A magnetic ground base station with a resolution of 0.5nT was central to the survey, and synchronised with flying time so as to correct for diurnal variations.

Hungerford Geophysical Consultants was contracted to process the raw data (Figure 3). Flight line, line profile and contour diagrams are included in Appendix 3.

8. WORK COMPLETED PERIOD ENDING 22 NOVEMBER 1998

8.1. Gridding

Crossline gridding was completed using galvanised pegs on 50m spacing for a total of 1.45 line km in the northern part of the relinquished area. Gridding was completed on the Pine Creek regional grid orientation (N-S baseline, 331.5° magnetic).

8.2. Vacuum Soil Sampling

A total of 63 holes were drilled using a vacuum rig to test for possible extensions of the anomalous Au soil values obtained in the adjacent Ragamuffin lease (EL 9552).

Samples, weighing 1.5 to 2kg, were collected from the B_2/C horizon every 25m along grid lines and sieved to -5mm. The samples were submitted to Assaycorp Laboratories in Pine Creek, where they were dried, crushed and pulverised to a nominal 90% passing 100µ. Samples where then analysed for low level Au by Fire Assay (FALL method). Standards were submitted every 30 samples.

Samples testing for extensions of the Ragamuffin Au anomaly, returned a broad low level halo between 10-50 ppb Au, with peak values of 109, 112 and 175 ppb Au. Recent attempts at costeans in the Ragamuffin lease, in the main area of the anomalous soil values, has shown the source of the anomalism to be alluvial gravels. It is considered likely that the results within Wandie Track have a similar origin and no further follow-up is recommended.

Soil sample ledgers and results are included in Appendices 1 and 2 respectively. Sample locations and results are shown in Figures 3 and 4 respectively.

8.3. Regional Gravity Survey

A gravity survey was conducted during 1997 incorporating Acacia's Pine Creek tenements, including the Wandie Track lease. The survey provided more detailed data than the regional AGSO gravity surveys and was conducted as part of two Honours theses (University of Tasmania) aimed at modelling the depth to granite intrusions in the Pine Creek area (Figure 5).

Station spacing for the survey was about ~500m and a Worden gravity meter was used with a differential GPS providing accurate locations and heights for the subsequent data reductions. One (1) station falls within the Wandie Track lease. Station data is provided in Appendix 4.

Hungerford Geophysical Consultants reviewed the results of the theses and the survey with the following conclusions:

- The sediments to the west of the centre of the Pine Creek Geosyncline have a higher mass than those on the eastern side. This can be attributed to either a thicker metasedimentary sequence on the western side or higher

density rocks, possibly Mt Bonnie Formation (and not Burrell Creek Formation).
- A correlation between a shallower depth to granite basement and mineralisation was suggested.

8.4. Regional Geophysical Data Compilation

Hungerford Geophysical Consultants merged and levelled the multiple aeromagnetic data sets that Acacia has acquired to allow easier comparison of the images across the boundaries of the different surveys. The following processing was applied to merge the detailed aeromagnetic and multiclient datasets:

- Regrid all surveys to 15m grid cell size.
- Add 47210nT to the UTS grid (if required)
- Boolean join of the multiclient and UTS grids
- Smooth the merged grid with a 3 x Hanning filter

Revised reduced to the pole and first vertical derivative plots were produced and a revised regional geological interpretation was produced utilising recently acquired regional gravity data, multiple detailed and multiclient aeromagnetic data sets and IP surveys acquired between 1992 and 1997.

9. ENVIRONMENTAL ISSUES

All field based exploration work has been carried out carefully to ensure minimal environmental disturbance. All auger and vacuum soil sample sites were backfilled on completion. Galvanised grid pegs have been removed from the relinquished portion of the lease and the relevant pastoral lease holder informed. An environmental register is supplied in Appendix 5.

10. ESTIMATED EXPENDITURE FOR PERIOD 23ND NOVEMBER 1995 TO 22ND NOVEMBER 1998

The estimated total expenditure for the relinquished area is $11, 018. The expenditure is detailed below:

	$
Staffing	1 798
Support	4 475
Geochemistry	786
Geophysics	115
Geology	153
Assays	785
Drilling	859
Gridding/Surveys/Access	610
Administration	1 437
Total	**$11 018**

11. REFERENCES

FERGUSON J, 1980. Metamorphism in the Pine Creek Geosyncline and its bearing on stratigraphic correlations. In FERGUSON J, & GOLBY AB, (Editors) - URANIUM IN THE PINE CREEK GEOSYNCLINE. International Atomic Energy Agency, Vienna, 91-100.

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SPURWAY, C.C, Exploration Licence 9361 - Wandie Track, First Annual Report for the year ended 23rd November 1996. Acacia report no. 08.8473.

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STUART-SMITH PG, NEEDHAM RS, BAGAS L & WALLACE DH, 1987. Pine Creek, Northern Territory, 1:100,000 map and commentary. Bureau of Mineral Resources, Canberra.

WITHAM, W.J.A., Exploration Licence Number 6255, Bonrook, Annual report for the year ending 16th November 1990.

VELA, NIKI. 1997, Exploration Licence 9361 - Wandie Track, Second Annual Report for the year ended 23rd November 1997. Acacia report no. 08.8966.

HAM, J. 1998, Exploration Licence 9361 - Wandie Track, Third Annual Report for the year ended 22rd November 1998. Acacia report no. 08.10006.

Cullen
CL01N0331

EL 9555 Kookaburra

EL 8893
Burrundie Siding

EL 8047

Spring Hill

EL 8037
Henson
Option

EL 9488
Sfonara

EL 8172
Eaele

EL 8545
Extended Nth

SEL 7707
Snaddens Creek

Snaddeus
EL 9127

EL 7812
Union Reefs North

Mt Porter

SEL 8497
Union Consolidated

SEL 7984
Elizabeth

MLN 1109
Union Reefs

Union North

Crosscourse

ELA 10000
Chance

Stuart Hwy

ERL 130
Esmeralda JV

Esmeralda

SEL 8497
Union Consolidated

MCN'S 1093-1114
Caledonian

ELA 8457
MLN'S 51-52
Caroline Lode

EL 9468
Harriet
Creek

EL 9552
Ragamuffin

Gandys Hill

Pine Creek Town Site

Enterprise

EL 9361
Wandie Track

EL 9516
Keoloha

EL 8624
Bonrook North

EL 9577
Sirka

East Bonrook
EL 9137

EL 7893 Bonrook

EL 9530
Brindabella

ELA 9853
Adelle

ELA 9852
Gregil

Area To Be
Relinquished

EL 9361
Wandie Track

AMG N
TN MN
GRID CONVERGENCE 0.5°
GRID-MAGNETIC ANGLE 4.4°

785000 mE
790000 mE
795000 mE
800000 mE
805000 mE
810000 mE

8500000 mN
8495000 mN
8490000 mN
8485000 mN
8480000 mN
8475000 mN
8470000 mN
8465000 mN

Locality Inset
Pine Creek Project Area

0 2.5 5
Kilometers

Northern Territory
Pine Creek Project

EL 9361 - Wandie Track
Tenement Location and
Area to be Relinquished

Acacia RESOURCES

Author: I.H.	Office: DWN	Scale: 1:200 000
Drawn: A.L.H.	Date: 4/12/98	Revised:
Plotted Date: 4/12/98		Report No.:
File: m:\plots_d\tenements\relinquished\wandie relinq.WOR		Figure No: 1

Pine Creek Project
Regional Geology

785000 mE
795000 mE
805000 mE
815000 mE
8495000 mN
8490000 mN
8485000 mN
8480000 mN
8475000 mN
8470000 mN
8465000 mN
8460000 mN

Mt Wells
EL 9563 Kookaburra
EL 9393 Burrundie Siding
EL 8047
Spring Hill
EL 8037 Hyroon Options
McKinlay Granite
EL 8545, Extended Nth
EL 9172 Farm
SEL 7707 Cauldens Creek
Amadeus EL 9127
Elizabeth
SEL 8497 Union Consolidated
SEL 7984 Elizabeth
ELA 10000 Chance
EL 7912 Union Reefs North
Mt Porter
Mt Porter Granite
Allamber Springs Granite
McMinns Bluff Granite
MLN 1109 Union Reefs
Union North
Crosscourse
Area To Be Relinquished
ERL 1 Esmeralda JV
SEL 8 Union Consolidated
Esmeralda
EL 9468 Harrier Creek
MCN'S 1093-1114 Caledonia
EL 9361 Wandie Track
Table Top Granite
EL 9516 Kooloba
Gandys Hill
Enterprise
EL 9137
EL 7893 Bellbrook
EL 9530 Blandsbridge
ELA 9853 Exile
ELA 9012 Gretel

KEY

- Pine Creek Shear Zone
- Mesozoic and later cover
- Granite
- Depot Creek Sandstone
- Burrell Creek Formation
- Mt Bonnie Formation
- Gerowie Tuff
- Zamu Dolerite
- Koolpin Formation
- Mt Partridge Group
- Masson Formation

Scale 1:200 000

0 5 10 km

Filed:- m:\nt\pine_ck\geology\regional\pk 200kA4 Wandie ge.wor

Figure 2

8473000 mN

8472000 mN

8471000 mN

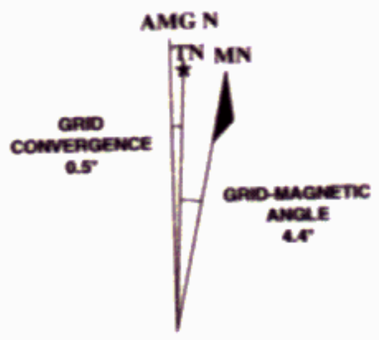
8470000 mN

8469000 mN

Area to be
Relinquished

EL 9361
Wandie Track

0 0.5 1
Kilometers



Acacia RESOURCES

Northern Territory
Pine Creek Project

EL 9361- Wandie Track
Area to be Relinquished
Aeromagnetic Survey
Total Magnetic Intensity
RTP

Author: J.H.	Office: DWN	Scale: 1:25 000
Drawn: A.L.H.	Date: 4/12/98	Revised:
Plotted Date: 4/12/98		Report No:
Filed: m:\ai\pinc_ck\~\aeromag\wandie\Wandie 25kA4 tmi Reling.WOR		Figure No: 3

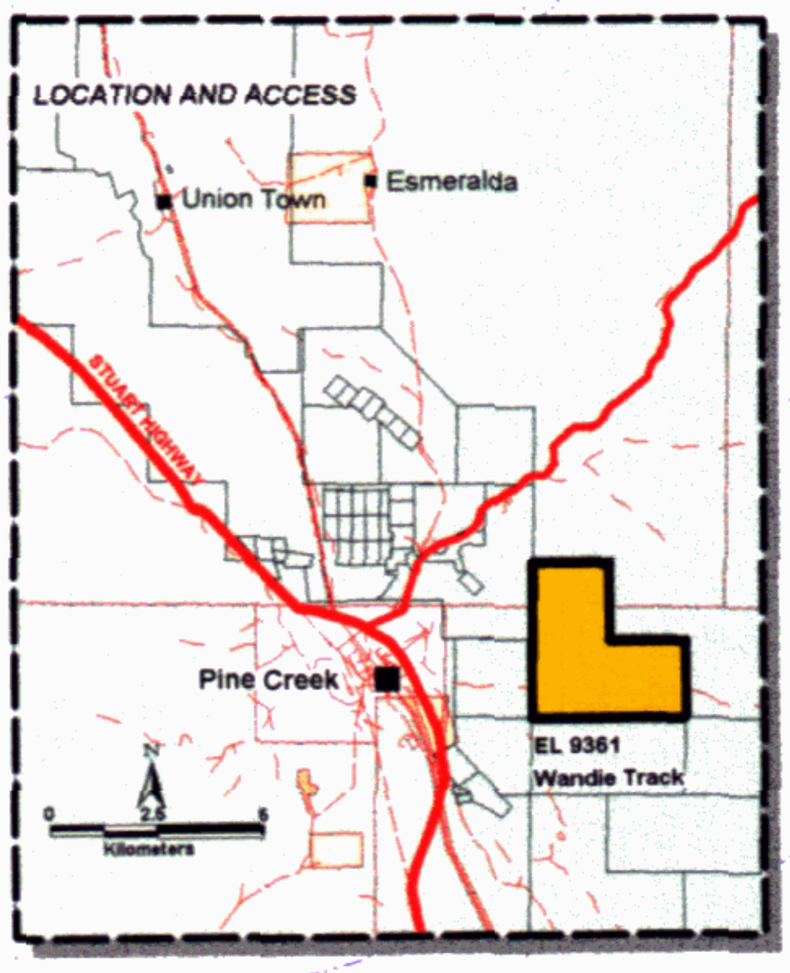
810000 mE
811000 mE
812000 mE
813000 mE

8472000 mN
8471000 mN
8470000 mN
8469000 mN
8468000 mN

Area to be Relinquished

EL 9361
Wandie Track

LOCATION AND ACCESS



0 0.5 1
Kilometers

Locality Inset
Pine Creek Project Area

Key

Gravity Station

AMG N
TN MN
GRID CONVERGENCE 0.5°
GRID-MAGNETIC ANGLE 4.4°

Acacia RESOURCES

Northern Territory
Pine Creek Project

EL 9361 - Wandie Track
Area to be Relinquished
Location of Gravity Stations

Author: J.H.	Office: DWN	Scale: 1:25 000
Drawn: A.L.H.	Date: 4/12/98	Revised:
Plotted Date: 4/12/98		Projection: AMG Zone 52 (AGD84)
Filed: m:\st\~\gravity\Wandie 25kA4 Gravity Stns Relinq WOR		Figure No: 4

Relinquished Area

Regional Grid

EL 9361 Wandie Track

Bonrook Grid

810000 mE
811000 mE
812000 mE
813000 mE
8472000 mN
8471000 mN
8470000 mN
8469000 mN

3 200N
28 000E
18 000N
16 600N
8 000E

LOCATION AND ACCESS
Union Town
Esmeralda
STUART HIGHWAY
Pine Creek
EL 9361
Wandie Track
N
0 2.5 5
Kilometers

Locality Inset
Pine Creek Project Area
DARWIN
Katherine
Tennant Ck
Alice Springs

Soils Sample Type
AUGER
VACUUM

AMG N
TN
MN
GRID CONVERGENCE 0.5°
GRID-MAGNETIC ANGLE 4.4°
0 0.3 0.6
Kilometers

CR98/815

Acacia RESOURCES

Northern Territory
Pine Creek Project

EL 9361 - Wandie Track
Area to be Relinquished
Geochemical Samples
with Sample Numbers

Author: J.H.	Office: DWN	Scale: 1:10 000
Drawn: A.L.H.	Date: 4/12/98	Revised:
Plotted Date: 4/12/98		Projection: AMG Zone 52 (AGD84)
Filed: m:\nt\pine_ck\~\soils\wandie\Wandie 10kA2 soil98 Reling.		Figure No: 5

810000 mE

811000 mE

812000 mE

813000 mE

8472000 mN

8471000 mN

8470000 mN

8469000 mN

Area To Be Relinquished

Regional Grid

3 200N

28 000E

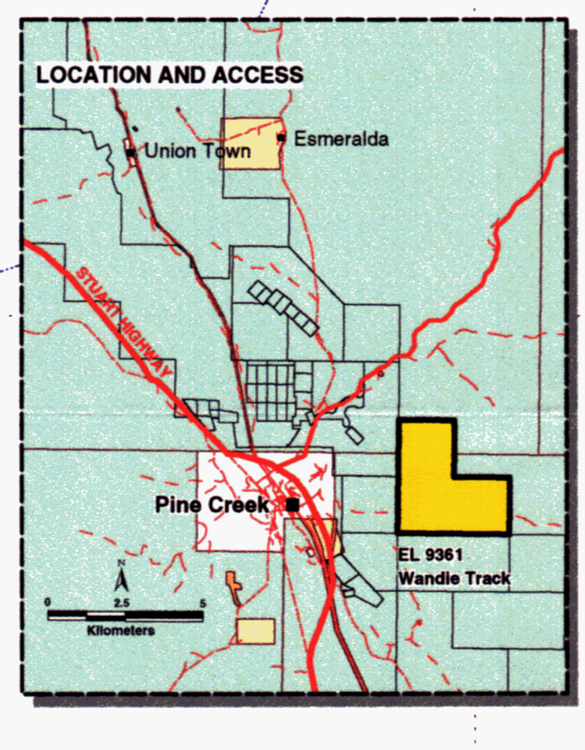
18 000N

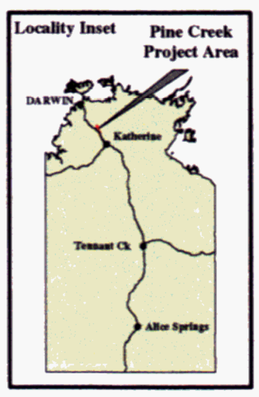
8 000E

EL 9361
Wandie Track

Bonrook Grid

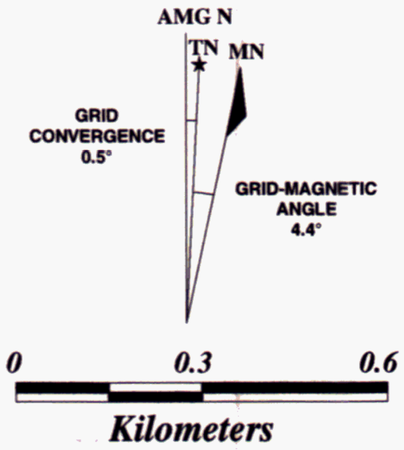
16 600N





Geochemical Samples
Au Results in ppb

★	>1000		
●	250	to	1000
●	100	to	250
●	50	to	100
●	10	to	50
●	5	to	10
●	2	to	5
·	<2		



CR98/815

Northern Territory
Pine Creek Project

EL 9361 - Wandie Track
Area to be Relinquished
Geochemical Samples
with Au Results in ppb

Author: J.H.	**Office:** DWN	**Scale:** 1:10 000
Drawn: A.L.H.	**Date:** 4/12/98	**Revised:**
Plotted Date: 4/12/98		Projection: AMG Zone 52 (AGD84)
Filed: m:\nt\~\~\soils\wandie\Wandie 10kA2 soil au98 Reling.WO		**Figure No:** 6

APPENDIX 1

Auger and Vacuum Soil Sample Ledgers

Acacia Exploration
Geological Logging Codes

RETURN
(RTN)

%	Of Return

WATER
(H2O)

B	Blowndry
D	Dry
I	Injected
M	Moist
W	Wet

HARDNESS

VH	Very Hard
H	Hard
M	Medium
S	Soft
VS	Very Soft

COLOUR
(COLOUR)

Qualifier

DK	Dark
LT	Light

BE	Beige
BG	Blue/green
BK	Black
BL	Blue
BN	Brown
CM	Cream
GN	Green
GY	Grey
KK	Khaki
MS	Mustard
OG	Orange
PI	Pink
PP	Purple
RD	Red
TN	Tan
WH	White
YE	Yellow

e.g BNGN, LTBN

TEXTURE
(Text)

Qualifier

ST	Strong
MD	Moderate
WK	Weak

Sedimentary

IB	Interbedded
LM	Laminated
LY	Layered

TEXTURE Ctd.
(TEXT)

Metamorphic

CR	Crenulated
MY	Mylonitic
PB	Porphroblastic
SC	Schistose
SP	Spotted

Igneous

AC	Acicular
AM	Amygdaloidal
AN	Aphanitic
EQ	Equigranular
PO	Porphyritic
PW	Pillows

Structural

BO	Boxwork
BX	Brecciated
FD	Folded
FO	Foliated
FR	Fractured
LI	Lineated
RO	Rodded
SH	Sheared
SL	Slickenslides

Others

CX	Crystalline
CO	Competant
FB	Fibrous
GO	Gossanous
MS	Massive
PT	Platy
PS	Porous
SA	Saccaroidal
SB	Solution Bands

GRAINSIZE
(GN_SZ)

VF	Very Fine
FN	Fine - not visible to naked eye
MD	Medium - visible to naked eye
CS	Coarse - >2mm
VC	Very Coarse (pebble)

WEATH (Weathering)
(WTH)

EW	Extremely weathered with poor textural preservation
HW	Highly weathered with moderate textural preservation
MW	Moderately weathered with good textural preservation
SW	Slightly weathered with < 20% oxides
FR	Fresh Bedrock

REGOLITH
(REGO)

BR	Bedrock (fresh)
LS	Lower Saprolite
RX	Redox Front
SA	Saprolite (undifferentiated)
TL	Laterite
TR	Transported
US	Upper Saprolite
WB	Weathered Bedrock

Overprints

MT	Mottling
CT	Calcrete
ST	Silcrete
FT	Ferricrete
GT	Goethite
HM	Haematite

e.g. USMT, USGT

ROCKTYPE
(MAJ, MIN1, MIN2)

Sedimentary

AG	Agglomerate
BX	Breccia
BIF	Banded Iron Form
CB	Carbonate
CG	Conglomerate
CGW	Carbonaceous Greywacke
CH	Chert
CSH	Carbonaceous Shale
CSI	Carbonaceous Siltstone
CSS	Carbonaceous Sandstone
DO	Dolomite
EE	Epiclastic
GS	Graphitic Shale
GW	Greywacke (>15%matrix)
HS	Haematitic Shale
LM	Limestone
SH	Shale
SI	Siltstone
SS	Sandstone
TF	Tuff

Igneous

AP	Aplite
DL	Dolerite
EB	Basalt
EBA	Antrim Plateau Volcanics
FI	Felsic Intrusive (undiff)
GB	Gabbro
GR	Granite (undiff)
GRA	Alkali Granite
GRD	Granodiorite
MI	Mafic Intrusive (undiff)
PG	Pegmatite
PO	Porphyry
VA	Acid Volcanic
VB	Basic Volcanic
VI	Intermediate Volcanic

Metamorphic

AM	Amphibolite
BMS	Biotite Mica Schist
GN	Gneiss
HF	Hornfels

ROCKTYPE Ctd.
(MAJ, MIN1, MIN2)

Metamorphic Ctd

PH	Phyllite
QC	Quartz Carbonate
QMS	Quartz Mica Schist
QT	Quartzite
SC	Schist
SL	Slate
SSM	Metasediment
TM	Tourmalinite

Other

CL	Clay
CT	Calcrete
FT	Ferricrete
GV	Gravel
GO	Gossan
IS	Ironstone
MK	Mullock
NS	No Sample
PI	Pisolitic Gravel
QV	Massive Quartz Vein
SD	Sand
ST	Silcrete
TL	Laterite

ALT TYPE
(ALTER)

AB	Albite
AD	Andalusite
AM	Amphibole
AT	Altered (undiff)
AU	Gold
BI	Biotite
BL	Bleaching (cb-si)
CB	Carbonate
CH	Chlorite
CL	Clay
CW	Clay Weathering
EP	Epidote
FE	Iron
FL	Fluorine
GA	Garnet
GN	Green Alteration
GP	Graphite
GT	Goethite
HM	Haematite
KA	Kaolinite
KS	K-Feldspar
KY	Kyanite
LI	Limonite
LX	Leucoxene
MI	Mica
MN	Manganese
MT	Magnetite
MU	Muscovite
PH	Phlogopite
PL	Plagioclase
PY	Pyrite
SE	Sericite
SI	Silica
SR	Siderite
TC	Talc
TE	Tremolite
TM	Tourmaline
ZE	Zeolite

Acacia Exploration
Geological Logging Codes Ctd.

ALT QUAL (QUAL)	
Qualifier	
TR	Trace
WK	Weak
MD	Moderate
ST	Strong
IN	Intense
DM	Disseminated
PV	Pervasive
PT	Patchy
SV	Selvedge
VN	Vein
e.g.	STDM, MRSV

VEIN TYPE (VN_TYPE)	
CB	Carbonate
CH	Chlorite
HM	Haematite
PY	Pyrite
QZ	Quartz
SE	Sericite

VEIN STYLE (VN_STYLE)	
BK	Buck
BX	Breccia
CB	Comb
CH	Chalcedonic
FB	Fibrous
LM	Laminated
MI	Milky
RB	Ribbon
SA	Saccharoidal
SM	Smoky
ST	Stringer
SW	Stock Work
TR	Translucent

MINERALISATION (OTHERSULPH, OTHER MIN)	
AS	Arsenopyrite
AZ	Azurite
AU	Gold
BI	Biotite
BO	Bornite
CB	Carbonate (undiff)
CC	Chalcocite
CN	Native Copper
CP	Chalcopyrite
CU	Cuprite
CV	Covellite
GA	Galena
GR	Garnet
GT	Goethite
HM	Haematite
MA	Malachite
MF	Fine Black Mineral
MN	Manganese
PO	Pyrrhotite
PY	Pyrite
SP	Sphalerite

NB: Mineral content must be expressed as a numeric e.g. 0.5, 1, 5 etc.

STRUCTURAL DEFECTS (Geotech)	
BE	Bedding
BK	Broken Zone
CG	Cleavage
DK	Dyke
FA	Fold Axis
FG	Fragmented Zone
FH	Fold Hinge
FR	Fractured Zone
FT	Fault
FV	Fractured Vein
LI	Lineation
JO	Joint
SC	Schistosity
SH	Shear Zone
VS	Vein Stockwork
VN	Vein
VB	Brecciated Vein

ROCK STRENGTH (Geotech)	
VW	Very Weak
W	Weak
M	Medium Strong
S	Strong
VS	Very Strong

ROUGHNESS (Geotech)	
K	Slickenslided
P	Polished
R	Rough
S	Smooth

BROKEN ZONE (Geotech)	
D	Drill Induced
H	Heated
N	Natural

FRACTURING (Geotech)	
WF	Weak, core pieces 1m-200m
MF	Mod. core pieces 10-20cm
SF	Strong, core pieces 5-10cm
BK	Broken core, 25 cm pieces

SHAPE (Geotech)	
P	Planar
S	Stepped
U	Undulating

Logging Notes:

(1) Only **one** logging code to be entered per field (excluding qualifiers and two colours where necessary).

(2) **No new codes** to be entered without notification and approval.

(3) **No backslashes, commas, hyphens** etc. to be used in any field except Comments.

(4) Quartz Veining and Mineral content must be expressed as a **numeral** (**not** Trace, Tr etc.)

(5) Hole Numbers must be entered correctly using the appropriate prefix and **four** digit number.

(6) All geological logs **must** be validated prior to entry onto Access Dbase.

Surface Sample Ledger

Sample	AMG North	AMG East	Samp Type	Mesh Size	From	To	Cover Colour	Cover Type	Samp Colour	Major Rock	Minor Rock	Coarse Fraction	Terrain	Comments
202666	8471561.450	809954.730	AUGER	-5mm	1.3	1.8	WHPK	SL	OGRD			5	F	
202668	8471198.707	810124.097	AUGER	-5mm	1.5	2	BN	SL	OG			10	F	
202669	8471188.121	810101.425	AUGER	-5mm	1.5	2	LTBR	SL	KK			5	F	
202670	8471177.536	810078.754	AUGER	-5mm	1.5	2	GY	SL	OGRD			2	F	
202671	8471166.950	810056.083	AUGER	-5mm	1.5	2	GY	SL	RDOG			2	F	
202672	8471156.365	810033.411	AUGER	-5mm	1	1.5	GY	SL	PK			2	F	
202673	8471145.779	810010.740	AUGER	-5mm	1.5	2	GYBN	SL	KK			10	F	
202674	8471135.194	809988.068	AUGER	-5mm	1.5	2	GYBN	SLRK	LTBN			2	F	
202675	8471124.608	809965.397	AUGER	-5mm	1	1.5	GYBN	SLRK	PK			5	F	
202676	8471114.023	809942.725	AUGER	-5mm	1	1.5	GYBN	SLRK	PK			5	F	
274256	8471561.450	809954.730	VACUUM		1	3	GY	SLRK	OG	GW	QV		F	
274257	8471572.035	809977.401	VACUUM		1	3	GY	SLRK	OGPK	GW	QV		F	
274258	8471582.620	810000.072	VACUUM		2	4	GY	SLRK	OGCM	GW	QV		F	
274259	8471593.206	810022.744	VACUUM		2	4	GY	SLRK	OGCM	GW	QV		F	
274260	8471603.791	810045.415	VACUUM		1	3	GY	SLRK	PKCM	GW	QV		F	
274262	8471614.377	810068.087	VACUUM		2	4	GY	SLRK	OGCM	GW	QV		F	
274263	8471624.962	810090.758	VACUUM		2	4	GY	SLRK	RDCM	GW	QV		F	
274264	8471635.548	810113.430	VACUUM											GAS PIPELINE
274265	8471646.133	810136.101	VACUUM		3	5	GY	SLRK	RDCM	GW	QV		F	
274266	8471656.719	810158.772	VACUUM		3	5	GY	SLRK	PKCM	GW	QV		F	
274267	8471667.304	810181.444	VACUUM		2	4	GY	SLRK	PKCM	GW	QV		F	
274268	8471677.890	810204.115	VACUUM		1	3	GY	SLRK	PKCM	GW	QV		F	
274269	8471688.475	810226.787	VACUUM		2	4	GY	SLRK	OGCM	GW	QV		F	

ample	AMG North	AMG East	Samp Type	Mesh Size	From	To	Cover Colour	Cover Type	Samp Colour	Major Rock	Minor Rock	Coarse Fraction	Terrain	Comments
274278	8472008.876	809966.734	VACUUM											GRANITE OUTCROP
274279	8472019.462	809989.405	VACUUM		1	3	GYBN	SLRK	OG	GW	QV		F	
274280	8472030.047	810012.077	VACUUM		1	3	GYBN	SLRK	OGCM	GW	QV		F	
274281	8472040.633	810034.748	VACUUM		1	3	GYBN	SLRK	PKCM	GW	QV		F	
274282	8472051.218	810057.419	VACUUM		1	3	GYBN	SLRK	PK	GW	QV		F	
274283	8472061.804	810080.091	VACUUM		1	3	GYBN	SLRK	OGPK	GW	QV		S	
274284	8472072.389	810102.762	VACUUM		1	3	GYBN	SLRK	OGCM	GW	QV		S	
74285	8472082.974	810125.434	VACUUM		1	3	GYBN	SLRK	OGCM	GW	QV		S	GRANITE OUTCROP
274286	8472093.560	810148.105	VACUUM		0	2	GY	SL	OG	GW	QV		F	FLOOD AREA (WET)
274287	8472104.145	810170.777	VACUUM		2	4	GY	SL	KK	GW	QV		F	FLOOD AREA
274288	8472114.731	810193.448	VACUUM		2	4	GY	SL	KK	GW	QV		F	FLOOD AREA
274289	8472125.316	810216.120	VACUUM		1	3	GY	SL	KK	GW	QV		F	FLOOD AREA
274290	8472135.902	810238.791	VACUUM		1	3	GY	SL	KK	CL	QV		F	WET - NEAR CREEK
274292	8472146.487	810261.462	VACUUM		2	4	GYBN	SLRK	KK	GW	QV		F	NEAR CREEK
274293	8472157.073	810284.134	VACUUM		2	4	GYBN	SLRK	OGCM	GW	QV		R	
274294	8472167.658	810306.805	VACUUM		2	4	GYBN	SLRK	OGPK	GW	QV		R	
74295	8472178.244	810329.477	VACUUM		0	2	GY	SLRK	OG	GW	QV		F	
274296	8472188.829	810352.148	VACUUM		1	3	GYBN	SLRK	OGCM	GW	QV		F	
274297	8472199.414	810374.820	VACUUM		1	3	GYBN	SLRK	PKCM	GW	QV		F	
274298	8472210.000	810397.491	VACUUM		2	4	GYBN	SLRK	PKCM	GW	QV		F	
274299	8472220.585	810420.162	VACUUM		2	4	GYBN	SLRK	OGCM	GW	QV		F	
274300	8472231.171	810442.834	VACUUM		1	3	GYBN	SLRK	PKCM	GW	QV		F	
274301	8472241.756	810465.505	VACUUM		1	3	GYBN	SLRK	RDCM	GW	QV		F	
274302	8472252.342	810488.177	VACUUM		2	4	GYBN	SLRK	PKYW	GW	QV		F	
274303	8472262.927	810510.848	VACUUM		1	3	GYBN	SLRK	OGCM	GW	QV		F	
274304	8472498.645	810069.424	VACUUM		3	5	GY	SLRK	OGCM	GW	QV		F	

ample	AMG North	AMG East	Samp Type	Mesh Size	From	To	Cover Colour	Cover Type	Samp Colour	Major Rock	Minor Rock	Coarse Fraction	Terrain	Comments
274305	8472488.059	810046.752	VACUUM		3	5	GY	SLRK	OGCM	GW	QV		F	
274306	8472477.474	810024.081	VACUUM		3	5	GY	SLRK	OGCM	GW	QV		F	
274307	8472466.888	810001.409	VACUUM		3	5	GY	SLRK	OG	GW	QV		F	
274308	8472456.303	809978.738	VACUUM		3	5	GY	SLRK	YWCM	GW	QV		F	
274309	8472445.717	809956.066	VACUUM		3	5	GY	SLRK	OGCM	GW	QV		F	
274325	8471198.707	810124.097	VACUUM		5	7	BN	SL	KK	SD	CL		F	
274326	8471209.292	810146.768	VACUUM		7	9	BN	SL	RDOG	CL	QV		F	
274327	8471219.877	810169.440	VACUUM		1	3	GYBN	SLRK	OGCM	GW	QV		F	
274328	8471230.463	810192.111	VACUUM		2	4	GYBN	SLRK	OGGY	GW	QV		F	
274329	8471241.048	810214.783	VACUUM		1	3	GY	SLRK	PKOG	GW	QV		F	
274330	8471251.634	810237.454	VACUUM		1	3	GY	SLRK	PKOG	GW	QV		F	
274332	8471262.219	810260.125	VACUUM		1	3	GY	SLRK	RDKK	GW	QV		F	EDGE OF GAS PIPELINE
274333	8471272.805	810282.797	VACUUM		1	3	CMGY	SLRK	RDCM	GW	QV		F	EDGE OF GAS PIPELINE
274334	8471283.390	810305.468	VACUUM		1	3	CMGY	SLRK	OGPK	GW	QV		F	
274335	8471293.976	810328.140	VACUUM		1	3	CMGY	SLRK	OGPK	GW	QV		F	
274336	8471304.561	810350.811	VACUUM		1	3	CMGY	SLRK	OGPK	GW	QV		F	
274337	8471315.147	810373.483	VACUUM		1	3	CMGY	SLRK	OGCM	GW	QV		F	
274338	8471325.732	810396.154	VACUUM		1	3	CMGY	SLRK	OGCM	GW	QV		F	
274339	8471380.078	810039.413	VACUUM		1	3	CMGY	SLRK	OG	GW	QV		F	
274340	8471369.493	810016.742	VACUUM		1	3	GY	SL	KK	GW	QV		F	
274341	8471358.907	809994.070	VACUUM		1	3	GY	SL	KKOG	GW	QV		F	
274342	8471348.322	809971.399	VACUUM		1	3	GY	SL	KKOG	GW	QV		F	
274343	8471337.736	809948.727	VACUUM		1	3	GY	SL	KKGY	SD	CL		F	FLOOD AREA
53823	8470674.631	811633.266	AUGER		1.5	2	GYBN	SL	PPBN	GW	QV	5	S	GWQTZ
53824	8470687.879	811654.467	AUGER		1.5	2	GYBN	SL	PPBN	GW	QV	5	S	GWQTZ
ns769	8470714.375	811696.869	AUGER				GYBN	SL					F	NO SAMPLE

'ample	AMG North	AMG East	Samp Type	Mesh Size	From	To	Cover Colour	Cover Type	Samp Colour	Major Rock	Minor Rock	Coarse Fraction	Terrain	Comments
s770	8470701.127	811675.668	AUGER				GYBN	SL					F	NO SAMPLE

APPENDIX 2

Auger and Vacuum Soil Sample Assay Results

ASSAYCORP

eport Code: ..... AC 38627
umples Received: 22/09/97
mber of Samples: 419

Ca ia Resources Limited
66 Coonawarra Rd
Winnellie NT 0821

fe nce: CCS002882
oject: UR32
st code: 1202470-1201038

Assaycorp Pty Ltd
A.C.N. 052 982 911
174 Ward St
PINE CREEK NT 0847
Ph (08) 8976 1262
Fax (08) 8976 1310

Report Distribution
L.Stirland-Mitchell
Chris Spurway

p Preparation:

ay Data:

Analysis	Analytical Method	Digest	Technique	Precision & Accuracy	Detection Limit	Data Units
Au	FALL	FA	AAS	Acc. ± 15 %	1	ppb
Au( )	FALL	FA	AAS	Acc. ± 15 %	1	ppb
	G300I	MA3	ICP-OES	Prec. ± 10 %	1	ppm
Cu	G300I	MA3	ICP-OES	Prec. ± 10 %	1	ppm
Pb	G300I	MA3	ICP-OES	Prec. ± 10 %	5	ppm
	G300I	MA3	ICP-OES	Prec. ± 10 %	2	ppm

Authoris ti n: Pay ' ldri

ASSAYCORP

Assaycorp Pty Ltd
A.C.N. 052 982 911
174 Ward St
Pine Creek NT 0847
Ph (08) 8976 1262
Fax (08) 8976 1310

Report Distribution
J.Harvey

eport Code: ..... AC 31451
mples Received: 20/08/96
mber of Samples: 466

cacia Resources Exploration Darwin
-66 Coonawarra Rd
innellie NT 0821

ference: 002726
oject: .....
st Code: .....

mple Preparation:

say Data:

Analysis	Analytical Technique	Precision & Accuracy	Detection Limit	Data Units
Au	FA50	Acc. ± 15%	1	ppb
Au(R)	FA50	Acc. ± 15%	1	ppb
Au(R)	FA50	Acc. ± 15%	1	ppb
Cu	AAS/MA-3	Prec. ± 10%	1	ppm
Pb	AAS/MA-3	Prec. ± 10%	2	ppm
Zn	AAS/MA-3	Prec. ± 10%	1	ppm
As	AAS/MA-3	Prec. ± 10%	1	ppm

ENTERED

port Comment:

Authorisation: Ray Wooldridge
Report Dated: 31/08/96

ASSAYCORP

Report Code: ..... AC 42912
Samples Received: 24/08/98
Number of Samples: 261

Assaycorp Pty Ltd
A.C.N. 052 982 911
174 Ward St
Pine Creek NT 0847
Ph (08) 8976 1262
Fax (08) 8976 1310

Acacia Resources Limited
7-66 Coonawarra Rd
Winnellie NT 0821

Report Distribution
L.Stirland-Mitchell

Reference: 003180
Project: .....
Cost Code: 1274153-1274413

Sample Preparation:

Assay Data:

Analysis	Analytical Method	Digest	Technique	Precision & Accuracy	Detection Limit	Data Units
Au	FALL	FA	AAS	Acc. ± 15 %	1	ppb
Au(R)	FALL	FA	AAS	Acc. ± 15 %	1	ppb
Au(R)	FALL	FA	AAS	Acc. ± 15 %	1	ppb

Report Comment: This cover sheet is an integral part of the report. This report can only be reproduced in full.

Authorisation: Ray Wooldridge
Report dated: 07/09/98

Surface Assay Report

Sample Type	Samp	Au ppm	Au ppb	As	Ag	Bi	Cu	Ni	Pb	Pd	Pt	Zn	Batch
AUGER	1202666	0.208	208.0	50			21		28			9	AC 38627
AUGER	1202668	0.004	4.0	13			73		17			11	AC 38627
AUGER	1202668	0.004	4.0	13			73		17			11	AC 38627
AUGER	1202669	0.002	2.0	11			13		7			30	AC 38627
AUGER	1202669	0.002	2.0	11			13		7			30	AC 38627
AUGER	1202670	0.002	2.0	11			13		9			26	AC 38627
AUGER	1202670	0.002	2.0	11			13		9			26	AC 38627
AUGER	1202671	0.001	1.0	18			19		15			41	AC 38627
AUGER	1202671	0.001	1.0	18			19		15			41	AC 38627
AUGER	1202672	0.002	2.0	6			16		10			29	AC 38627
AUGER	1202672	0.002	2.0	6			16		10			29	AC 38627
AUGER	1202673	0.001	1.0	19			17		6			28	AC 38627
AUGER	1202673	0.001	1.0	19			17		6			28	AC 38627
AUGER	1202674	0.002	2.0	3			11		10			40	AC 38627
AUGER	1202674	0.002	2.0	3			11		10			40	AC 38627
AUGER	1202675	0.001	1.0	5			51		10			8	AC 38627
AUGER	1202675	0.001	1.0	5			51		10			8	AC 38627
AUGER	1202676	0.001	1.0	4			16		10			15	AC 38627
AUGER	1202676	0.001	1.0	4			16		10			15	AC 38627
AUGER	153823	0.001	1.0	1			14		5			14	AC 31451
AUGER	153824	0.002	2.0	1			13		7			19	AC 31451
VACUUM	1274256	0.030	30.0										AC 42912
VACUUM	1274256	0.030	30.0										AC 42912
VACUUM	1274257	0.022	22.0										AC 42912
VACUUM	1274257	0.022	22.0										AC 42912
VACUUM	1274258	0.110	110.0										AC 42912
VACUUM	1274258	0.110	110.0										AC 42912
VACUUM	1274259	0.005	5.0										AC 42912
VACUUM	1274259	0.005	5.0										AC 42912
VACUUM	1274260	0.010	10.0										AC 42912
VACUUM	1274260	0.010	10.0										AC 42912
VACUUM	1274262	0.002	2.0										AC 42912
VACUUM	1274262	0.002	2.0										AC 42912

Sa	Typ	San	Au p	Au p	A	Ag	B	C	N	Pb	Pd	Pt	Zn	atch					
VACUUM	1274263	0.002	2.0											AC 42912					
VACUUM	1274263	0.002	2.0											AC 42912					
VACUUM	1274264													AC 42912					
VACUUM	1274264													AC 42912					
VACUUM	1274265	0.024	24.0											AC 42912					
VACUUM	1274265	0.024	24.0											AC 42912					
VACUUM	1274266	0.007	7.0											AC 42912					
VACUUM	1274266	0.007	7.0											AC 42912					
VACUUM	1274267	0.001	1.0											AC 42912					
VACUUM	1274267	0.001	1.0											AC 42912					
VACUUM	1274268	0.001	1.0											AC 42912					
VACUUM	1274268	0.001	1.0											AC 42912					
VACUUM	1274269	0.001	1.0											AC 42912					
VACUUM	1274269	0.001	1.0											AC 42912					
VACUUM	1274278													AC 42912					
VACUUM	1274278													AC 42912					
VACUUM	1274279	0.005	5.0											AC 42912					
VACUUM	1274279	0.005	5.0											AC 42912					
VACUUM	1274280	0.001	1.0											AC 42912					
VACUUM	1274280	0.001	1.0											AC 42912					
VACUUM	1274281	0.002	2.0											AC 42912					
VACUUM	1274281	0.002	2.0											AC 42912					
VACUUM	1274282	0.004	4.0											AC 42912					
VACUUM	1274282	0.004	4.0											AC 42912					
VACUUM	1274283	0.004	4.0											AC 42912					
VACUUM	1274283	0.004	4.0											AC 42912					
VACUUM	1274284	0.004	4.0											AC 42912					
VACUUM	1274284	0.004	4.0											AC 42912					
VACUUM	1274285	0.001	1.0											AC 42912					
VACUUM	1274285	0.001	1.0											AC 42912					
VACUUM	1274286	0.009	9.0											AC 42912					
VACUUM	1274286	0.009	9.0											AC 42912					
VACUUM	1274287	0.012	12.0											AC 42912					
VACUUM	1274287	0.012	12.0											AC 42912					
VACUUM	1274288	0.002	2.0											AC 42912					
VACUUM	1274288	0.002	2.0											AC 42912					

Sa	Typ	San	Au p	Au p	A	Ag	B	C	N	Pb	Pd	Pt	Zn	tch
VACUUM	1274289	0.009	9.0											AC 42912
VACUUM	1274289	0.009	9.0											AC 42912
VACUUM	1274290	0.003	3.0											AC 42912
VACUUM	1274290	0.003	3.0											AC 42912
VACUUM	1274292	0.001	1.0											AC 42912
VACUUM	1274292	0.001	1.0											AC 42912
VACUUM	1274293	0.008	8.0											AC 42912
VACUUM	1274293	0.008	8.0											AC 42912
VACUUM	1274294	0.005	5.0											AC 42912
VACUUM	1274294	0.005	5.0											AC 42912
VACUUM	1274295	0.175	175.0											AC 42912
VACUUM	1274295	0.175	175.0											AC 42912
VACUUM	1274296	0.004	4.0											AC 42912
VACUUM	1274296	0.004	4.0											AC 42912
VACUUM	1274297	0.026	26.0											AC 42912
VACUUM	1274297	0.026	26.0											AC 42912
VACUUM	1274298	0.021	21.0											AC 42912
VACUUM	1274298	0.021	21.0											AC 42912
VACUUM	1274299	0.024	24.0											AC 42912
VACUUM	1274299	0.024	24.0											AC 42912
VACUUM	1274300	0.016	16.0											AC 42912
VACUUM	1274300	0.016	16.0											AC 42912
VACUUM	1274301	0.017	17.0											AC 42912
VACUUM	1274301	0.017	17.0											AC 42912
VACUUM	1274302	0.016	16.0											AC 42912
VACUUM	1274302	0.016	16.0											AC 42912
VACUUM	1274303	0.005	5.0											AC 42912
VACUUM	1274303	0.005	5.0											AC 42912
VACUUM	1274304	0.021	21.0											AC 42912
VACUUM	1274304	0.021	21.0											AC 42912
VACUUM	1274305	0.113	113.0											AC 42912
VACUUM	1274305	0.113	113.0											AC 42912
VACUUM	1274306	0.052	52.0											AC 42912
VACUUM	1274306	0.052	52.0											AC 42912
VACUUM	1274307	0.007	7.0											AC 42912
VACUUM	1274307	0.007	7.0											AC 42912

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	VACUUM	1274308	0.007	7.0											AC 42912					
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	VACUUM	1274326	0.005	5.0											AC 42912					
	VACUUM	1274327	0.002	2.0											AC 42912					
	VACUUM	1274327	0.002	2.0											AC 42912					
	VACUUM	1274328	0.002	2.0											AC 42912					
	VACUUM	1274328	0.002	2.0											AC 42912					
	VACUUM	1274329	0.002	2.0											AC 42912					
	VACUUM	1274329	0.002	2.0											AC 42912					
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	VACUUM	1274330	0.002	2.0											AC 42912					
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	VACUUM	1274332	0.001	1.0											AC 42912					
	VACUUM	1274333	0.003	3.0											AC 42912					
	VACUUM	1274333	0.003	3.0											AC 42912					
	VACUUM	1274334	0.002	2.0											AC 42912					
	VACUUM	1274334	0.002	2.0											AC 42912					
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	VACUUM	1274336	0.001	1.0											AC 42912					
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	VACUUM	1274337	0.001	1.0											AC 42912					
	VACUUM	1274337	0.001	1.0											AC 42912					
	VACUUM	1274338	0.001	1.0											AC 42912					
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	VACUUM	1274339	0.002	2.0											AC 42912					
	VACUUM	1274339	0.002	2.0											AC 42912					
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	VACUUM	1274340	0.001	1.0											AC 42912					
	VACUUM	1274341	0.001	1.0											AC 42912					
	VACUUM	1274341	0.001	1.0											AC 42912					

[redacted]	S[redacted]	Ty[redacted]	San[redacted]	Au p[redacted]	Au [redacted]	[redacted]	Ag[redacted]	I[redacted]	C[redacted]	N[redacted]	Pb[redacted]	Pd[redacted]	Pt[redacted]	Zn[redacted]	[redacted]tch[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
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	VACUUM		1274342	0.002	2.0										AC 42912					
	VACUUM		1274343	0.001	1.0										AC 42912					
	VACUUM		1274343	0.001	1.0										AC 42912					

APPENDIX 3

Detailed Aeromagnetic Survey Plans

810000 mE
811000 mE
812000 mE
813000 mE
8472000 mN
8471000 mN
8470000 mN
8469000 mN

L1001320
L1001311
L1001300
L1001290
L1001280
L1001270
L1001260
L1001250
L1001240
L1001230
L1001220
L1001210
L1001200
L1001190
L1001180
L1001170
L1001160
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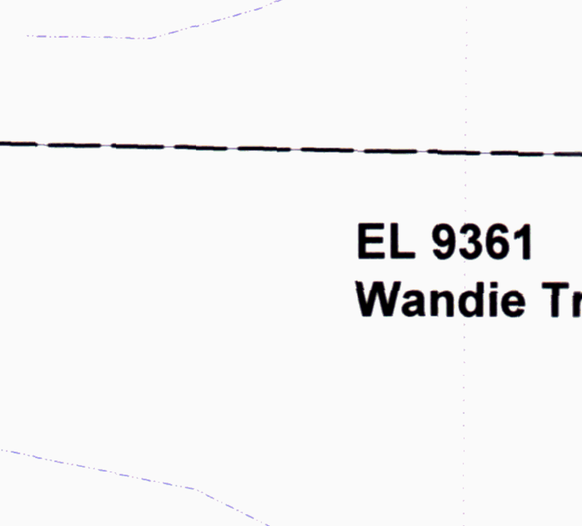
L1001140
L1001130
L1001120
L1001110
L1001100
L1001090
L1001080
L1001070
L1001060
L1001050
L1001040
L1001030
L1001020
L1001010
L1001000
L1090131
L1090140

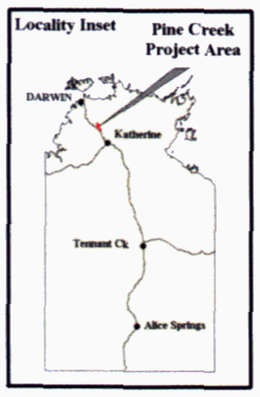
Area to be Relinquished

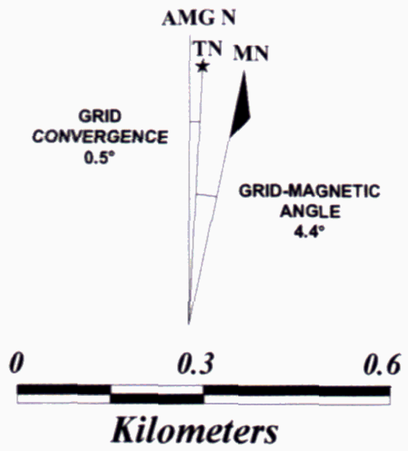
EL 9361
Wandie Track

LOCATION AND ACCESS



Locality Inset





CR98/815

Northern Territory
Pine Creek Project

EL 9361 - Wandie Track
Area to be Relinquished
Detailed Aeromagnetic Profiles

Author: J.H.	Office: DWN	Scale: 1:10 000
Drawn: A.L.H.	Date: 4/12/98	Revised:
Plotted Date: 4/12/98		Projection: AMG Zone 52 (AGD84)
Filed: m:\...\amag\wandie\Wandie 10kA2 amag Profiles Reling		Figure No: A3

810000 mE
811000 mE
812000 mE
813000 mE
8472000 mN
8471000 mN
8470000 mN
8469000 mN

L1090131
L1001311
L1001300
L1001290
L1001280
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L1001110
L1001100
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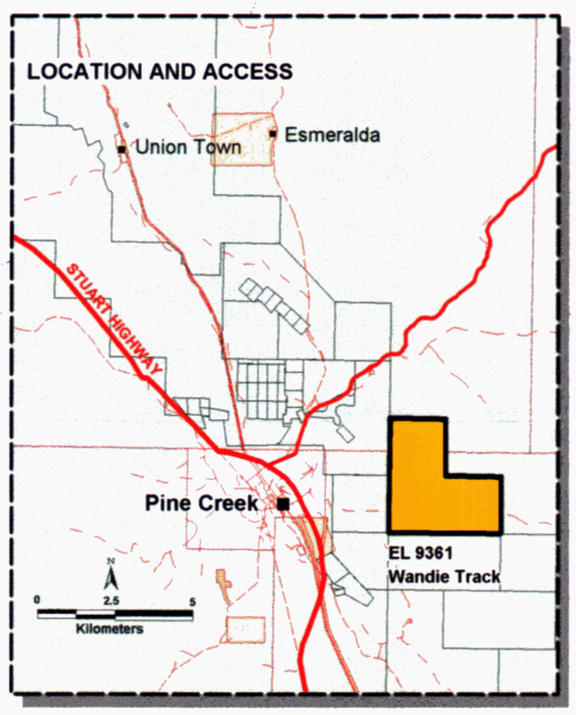
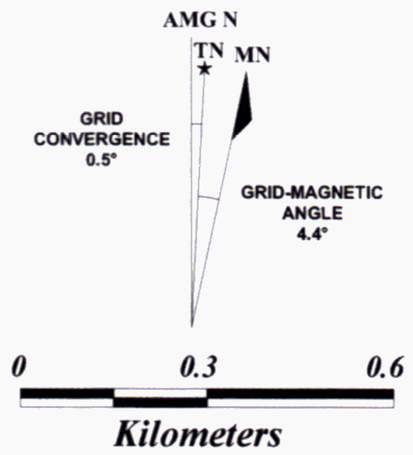
L1001030
L1001020
L1090140

Area to be Relinquished

LOCATION AND ACCESS



EL 9361
Wandie Track



CR98/815

Northern Territory
Pine Creek Project

EL 9361 - Wandie Track
Area to be Relinquished
Detailed Aeromagnetic Flight Lines

Author: J.H.	Office: DWN	Scale: 1:10 000
Drawn: A.L.H.	Date: 4/12/98	Revised:
Plotted Date: 4/12/98		Projection: AMG Zone 52 (AGD84)
Filed: m:\---\amag\wandie\Wandie 10kA2 amag contours reling.WOR		Figure No: A3

810000 mE

811000 mE

812000 mE

813000 mE

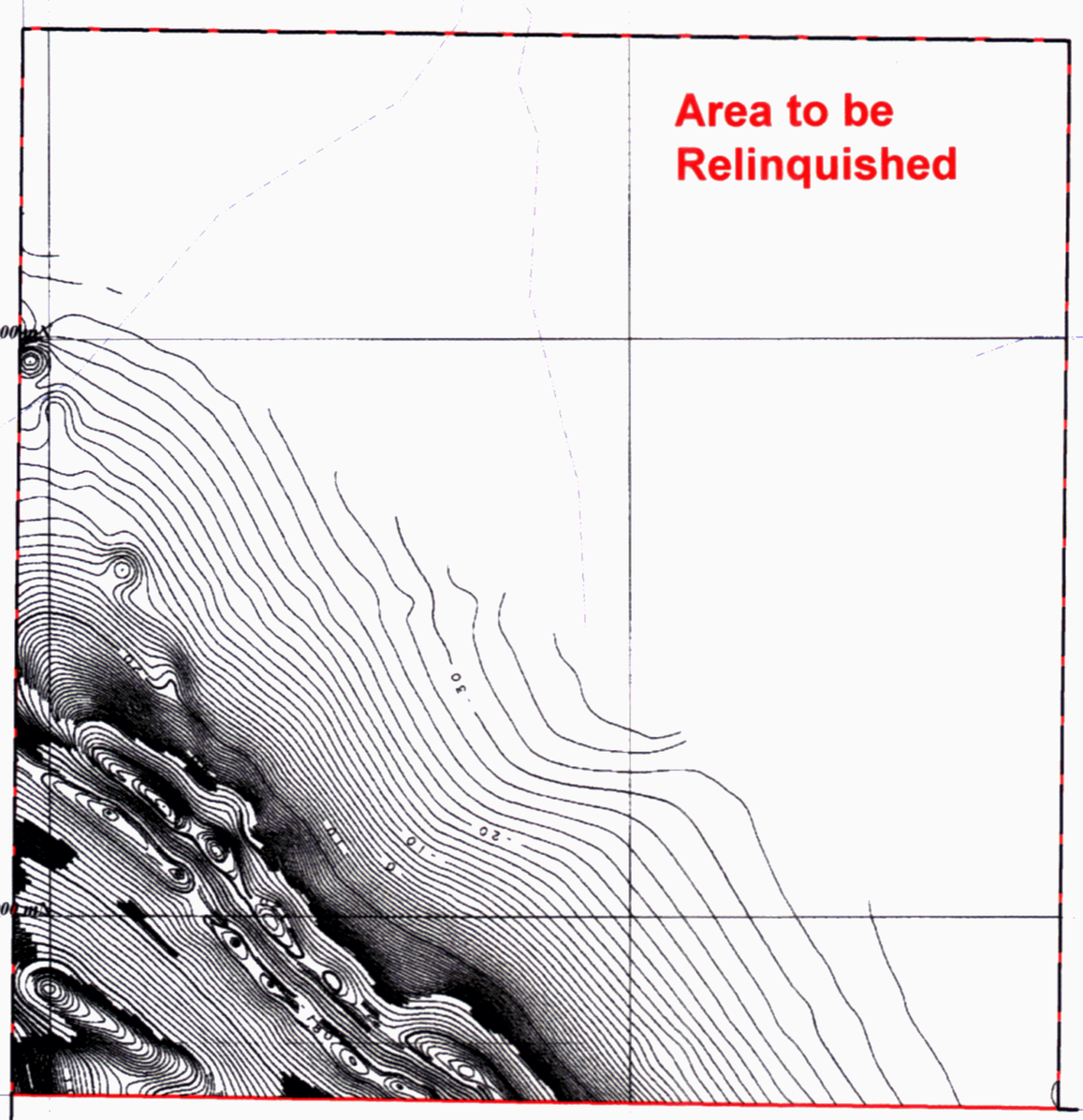
8472000 mN

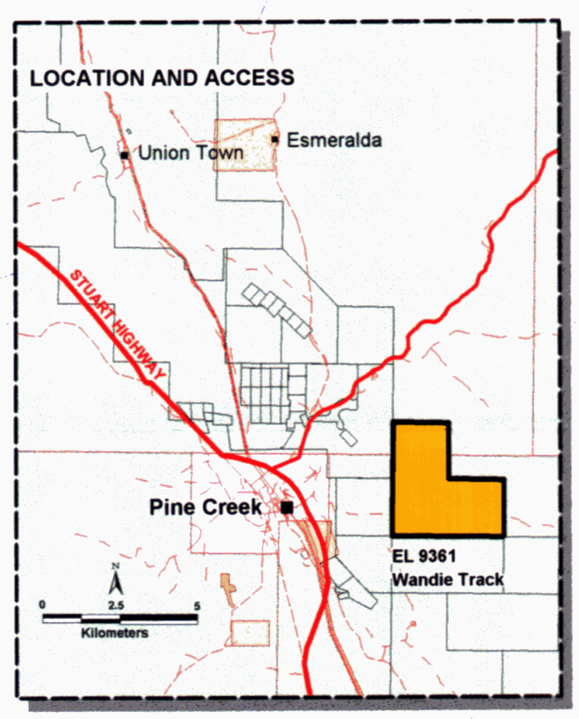
8471000 mN

8470000 mN

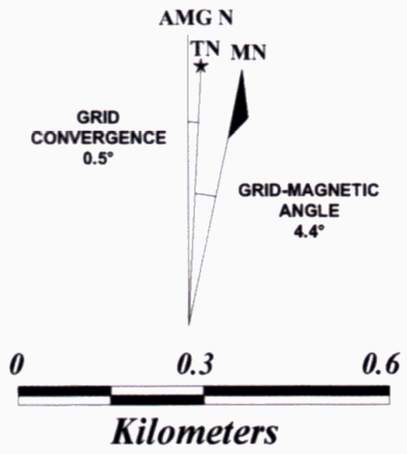
8469000 mN

Area to be Relinquished





EL 9361
Wandie Track



CR98/815

Northern Territory
Pine Creek Project

EL 9361 - Wandie Track
Area to be Relinquished
Detailed Aeromagnetic Contours

Author: J.H.	Office: DWN	Scale: 1:10 000
Drawn: A.L.H.	Date: 4/12/98	Revised:
Plotted Date: 4/12/98		Projection: AMG Zone 52 (AGD84)
Filed: m:\...\amag\wandie\Wandie 10kA2 amag contours relinq.WOR		Figure No: A3

APPENDIX 4

Gravity Data and Reference Point Locations

Wandie Track Relinquished Area - Gravity Station

year	Tas Uni station no	AMG E	AMG N + 8,000,000	elev	obs.grav	theor.grav	terrain correction	2.67 B.A	location	amg E	amg N
97	49.2394	810311.6	471182.1	193.18	978.3124	978.3261	0	24.28	Pine Creek	810311.6	471182.1

Appendix 1 Base Station Locations

9749-1037

Description : Star picket close to base of tree, near the northern turn-off to the Pine Creek township off the Stuart Highway.

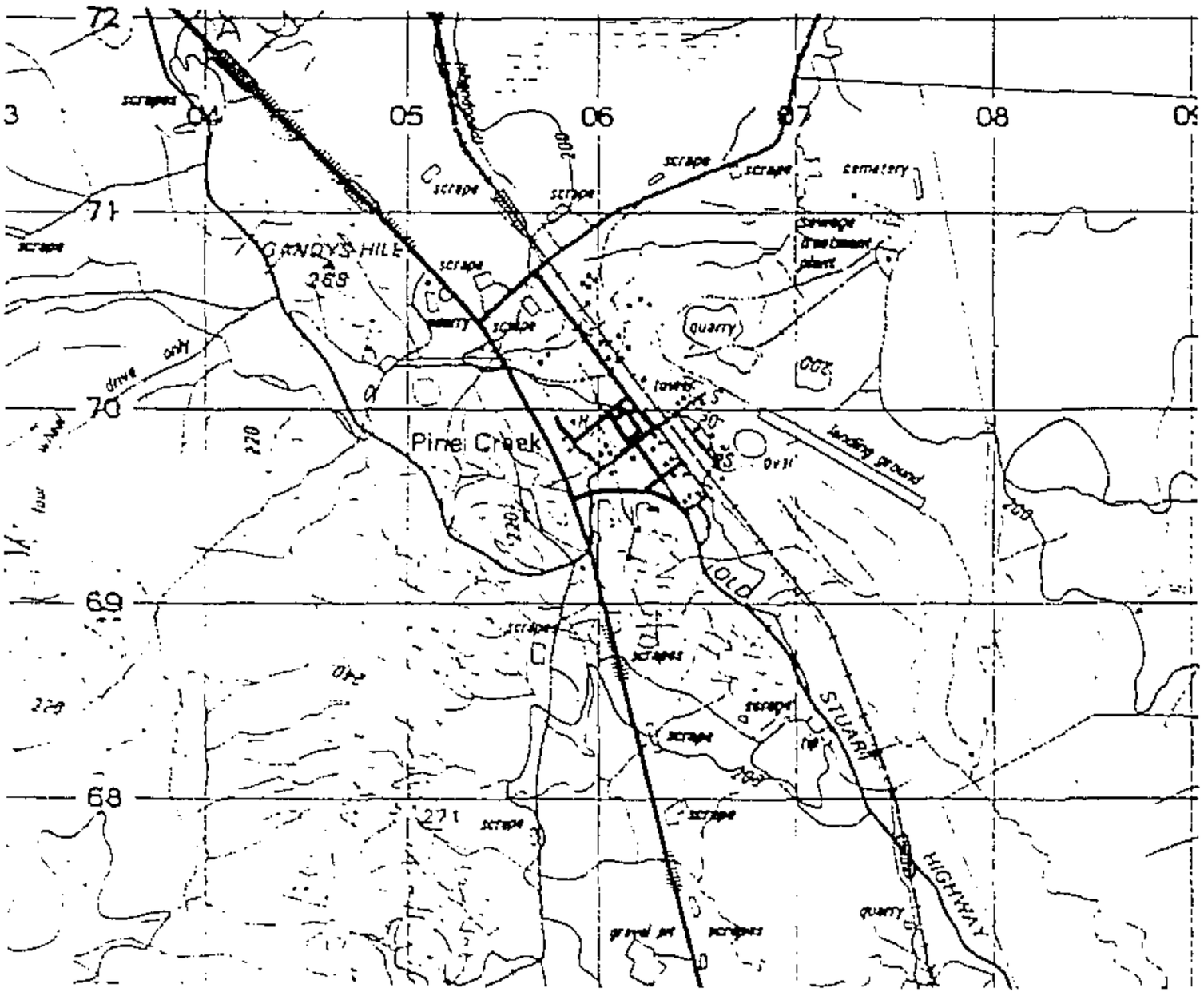
AMG Coordinates: 805800.00 mE 8471000.00 mN

Elevation : 200 m above sea level

Observed Gravity : 978310.71 mGal

Established : M.Roach 17/10/96

Map Series - Pine Creek 1 : 50,000



9749-1036

Description : Orange strip painted around the base of a light pole in the car park of the Emerald Springs Road House, Stuart Highway.

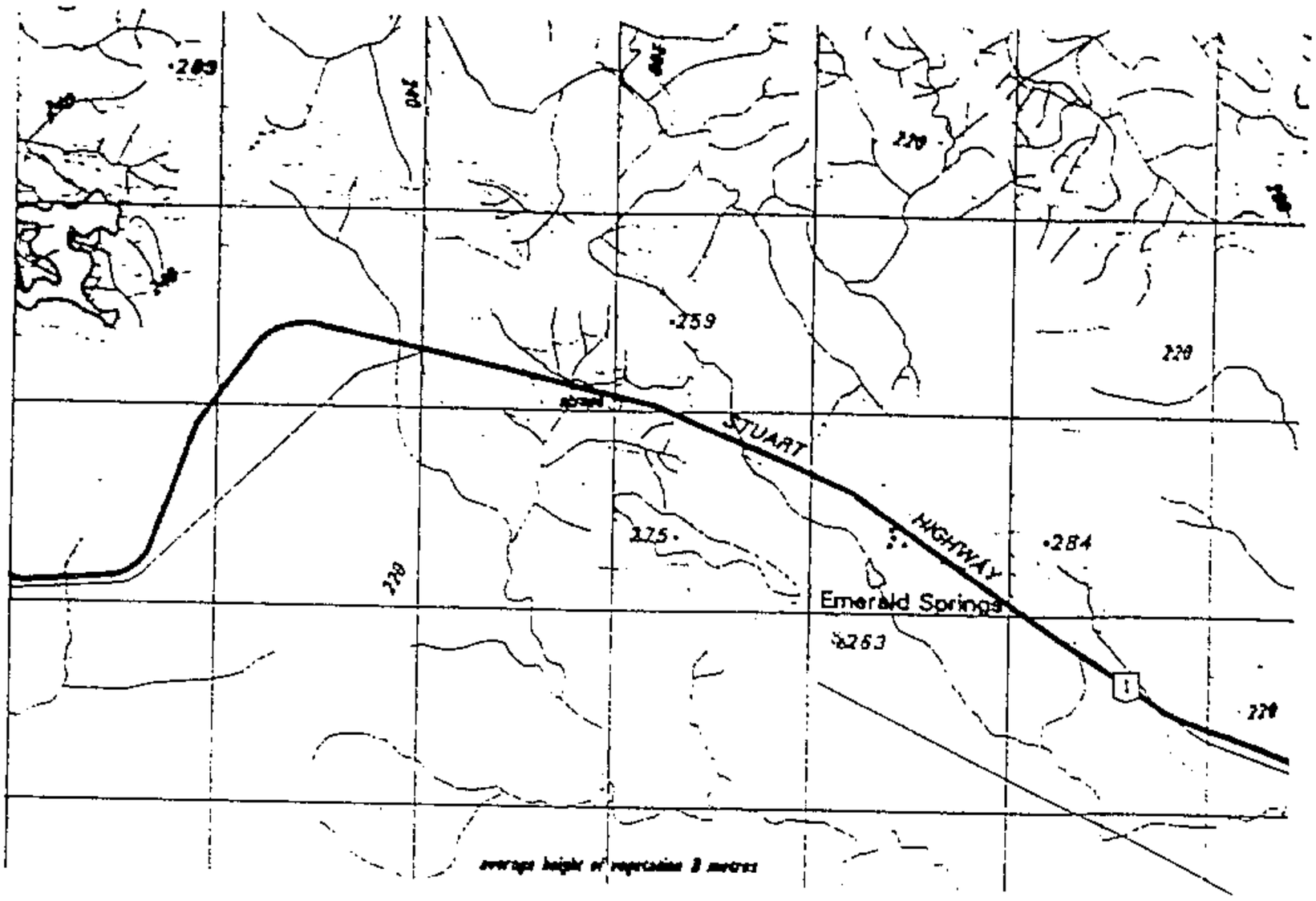
AMG Coordinates : 784500.00 mE 8491350O.00 mN

Elevation : 220 m above sea level

Observed Gravity : 978300.96 mGal

Established : M. Roach 17/10/96

Map Series- Burrundie 1 : 50,000



9749-1009

Description : Star picket near large road sign on Fountain Head road at the intersection of the Stuart Highway and Fountain Head Road.

AMG Coordinates : 759996.30 mE 8503120.15 mN

Elevation : 115.66 m above sea level

Observed Gravity : 978314.33 mGal

Established : M.Roach 16/10/96

Map Series - Fenton 1 : 50,000

9749.1001

Description: Star picket 10mfrom the Foutain Head road adjacent to the power station

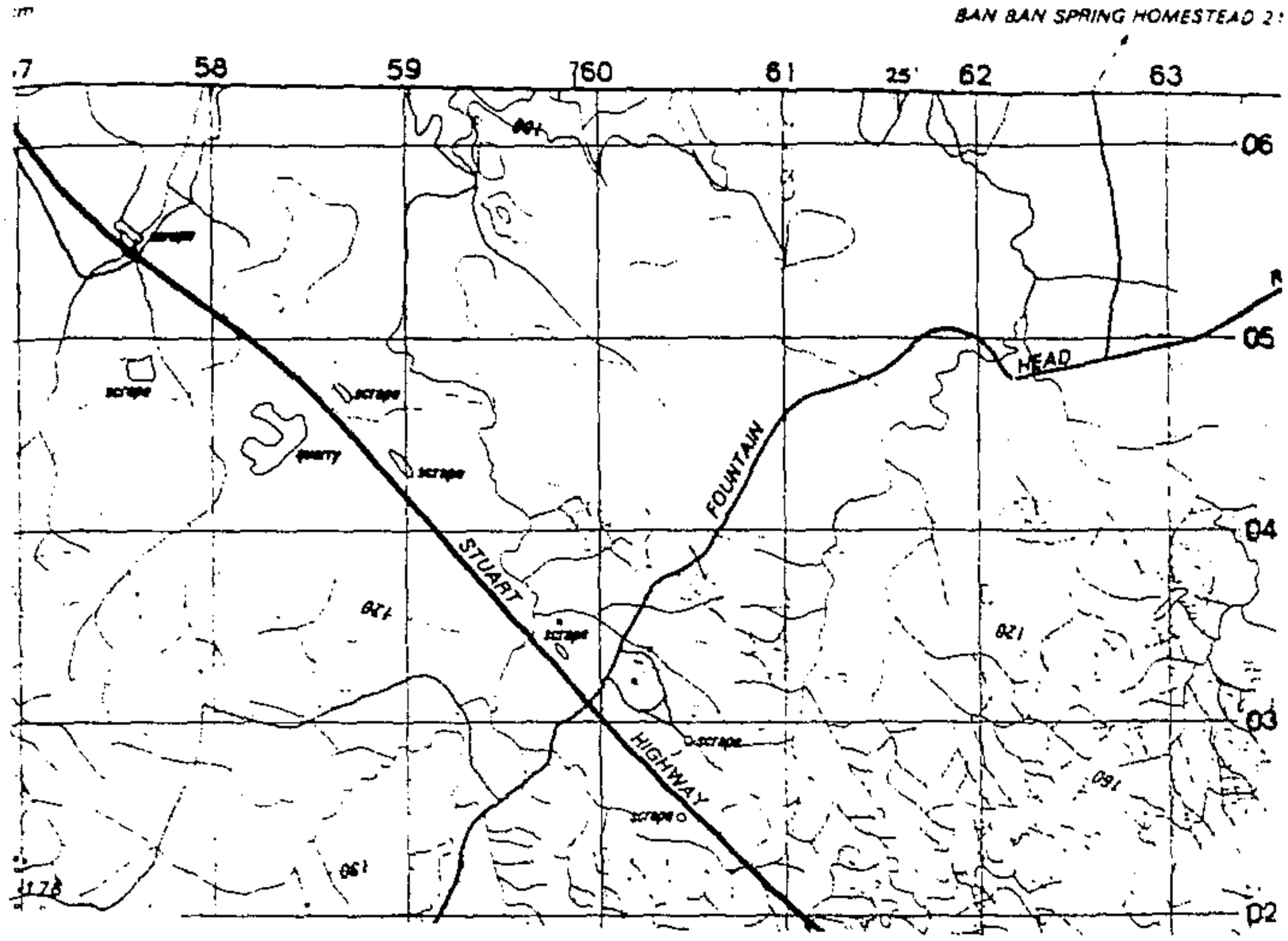
AMG Coordinates: 762600mE 85049000mN

Elevation 120.23m above sea level

Observed Gravity: 978311.148

Established: M.Roach 16/10/96

Map series: Fenton 1:50000



REGIONAL BASE STATION

ADELAIDE RIVER

9289 - 5171

Description : Circular plate, 1.5m west of the Adelaide River township fire station.

AMG Coordinates : 727802 mE 8535522 mN

Elevation : 52.78 m ASL

Observed Gravity : 978314.26 mGal

Established : M.Roach 16/10/96

APPENDIX 5

Environmental Ledger

TENEMENT ENVIRONMENTAL MANAGEMENT REGISTER
LAND STATUS RECORD

Project: Pine Creek
Tenement Name: Wandie Track **Loc. Code:** UR16
Relinquished Block (33/59)

Tenement No's: EL 9361

Registered Holder(s): Acacia Resources Ltd

Date Granted: 23/11/95 **Term:** 6 years **Area:** 1 block

Bond/Security: no bond lodged

JV Partners (if any): NA

Land Classification: **(Crown, Private, Lease)** Lease

Land Holder/Occupier: Gary Hamilton
Station: Mary River West
(Equest Pty Ltd)

Address: 9 Pall Mall **Phone:**(075) 534 7408
Currumbin

Contacted By: Chris Spurway **Date:** 7/2/96

Pastoral Notes: **(Stock, Cultivation, Access, Rainfall)**
Bonrook Station Wild Horse Sanctuary, Station divided into various paddocks by ring lock and barb wire fences. Station stocked with Brumbies and Brahman Cattle. Mary River West is unfenced and not stocked.

Environmental Notes: **(Flora/Fauna, Erosion, Bushfires, Flooding)**
Open Tropical Savannah

Groundwater: **(Bores/Wells/Dams, streams, drainage, test data)**

Aboriginal Notes: **(Sacred Sites, Cultural)**
AAPA certificate no. C97/058, expires 6th May, 1999.

Historic Relics: **(Mine Workings, Equipment, Homesteads etc.)**
None within relinquished portion

Previous Activity: **(Mining, Exploration, Forestry, etc.)**
Licence previously covered by numerous exploration companies, no substantial disturbance evident.

TENEMENT ENVIRONMENTAL MANAGEMENT REGISTER
PRE-EXISTING ENVIRONMENTAL DISTURBANCE RECORD

Tenement Name: Wandie Track **No(s):** EL 9361

Exploration Activity Area:

Shafts/Pits/Dumps:

Track/Access: Tenement can be access along southern margin by "Old Wandie Track".

Pastoral tracks constructed in and around Bonrook Station and leading to all water bores.

Line Clearing: None

Costeaning: None

Drill Sites: None

Other:

Location Data:

Other Ref:

Compiled by: Niki Vela **Date:** 9/12/97

TENEMENT ENVIRONMENTAL MANAGEMENT REGISTER
ACACIA ENVIRONMENTAL IMPACT RECORD

Tenement Name: Wandie Track **No (s):** EL 9361

Report Ref No's: 08.8473, 08.8966, 08.10006

Exploration Activities: 2.35 line km Gridding,
hand and mechanical auger sampling,
vacuum soil sampling.

Grids & Traverses: 0.1 line km 1996
0.8 line km 1997
1.45 line km 1998.

Soil Sampling: 4 auger soil samples (1996).
9 auger soil samples (1997).
63 soil samples (using vacuum rig - see below) (1998).

Costeans / Pits: Nil

Drilling: shallow vacuum drilling (63 holes) (1998).

Drill Traverses: Nil

Drill Pads: Nil

Ground Geophysics: Nil

Access Tracks: Nil

Camps: Nil

Other: Nil

Compiled by: Jane Ham **Date:** 07/12/98

TENEMENT ENVIRONMENTAL MANAGEMENT REGISTER
ACACIA REHABILITATION RECORD

Tenement Name: Wandie track **No(s):** EL 9361

Disturbance: Gridding, Soil Sampling

Rehabilitation: Yes **Date:** 17/12/98

Grids & Traverses: Cross line gridding marked with galvanised fence droppers. Fence droppers in relinquished block, have been removed.

Soil Sampling: Back-filling of all sample sites completed at time of sampling.

Costeans/Pits: Nil

Drilling: Vacuum holes backfilled on completion.

Drill Traverses: Nil

Drill Pads: Nil

Ground Geophysics: Nil

Access Tracks: Nil

Camps: Nil

Other: Nil

Inspected / Clearance: **Bond/Security released:**

Compiled by: Jane Ham **Date:** 07/12/98

Follow-up Inspection Report: