NORTH LIMITED
ACN 005 233 689

REPORT No. NT95/09S

EL 7331 "FENTON" ANNUAL REPORT

3 May 1994 - 2 May 1995

by
A M HOSCHKE

1:250 000 - PINE CREEK (SD52-08)
1:100 000 - TIPPERARY (5170)

Distribution:

North Exploration - Darwin
North Exploration - Melbourne
Department of Mines and Energy - NT

Base: Darwin
Date: Feb, 1995

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SUMMARY

Exploration Licence 7331 is situated approximately 150 km south southeast of Darwin in the Douglas/Daly area. The EL was acquired to explore for gold mineralisation associated with folded and faulted South Alligator rocks under a thin cover of Cambrian sediments.

Exploration during the fourth tenure year included 95 km of gridding over 7 blocks; a gradient array IP survey over the gridded area; one line of dipole-dipole IP; 95 km of ground magnetics and two drilling programs totalling 3725 m RC percussion and 303 m NQ diamond.

Results of the geophysical surveys indicated two north north-west trending broadly coincident chargeability and magnetic highs (western and eastern anomalies), and a broad chargeability high with a similar trend in the north-west.

Drilling indicates that the north-west chargeability anomaly may be due to sulphides within a shear zone; the western anomaly to be due to quartz-sulphide (pyrrhotite at depth) veining in a shear zone; and the eastern anomaly to be due to graphitic and sulphide rich meta-sediments near the contact with the Fenton granite.

Weakly anomalous gold was associated with all three geophysically anomalous zones, with maximum results:

2 m @ 0.75 ppm Au from 82 - 84 m, FRC 37, north-west anomaly
2 m @ 1.35 ppm Au from 86 - 88 m, FRC 29, western anomaly
2 m @ 0.78 ppm Au from 106 - 108 m, FRC 33, eastern anomaly

A program of RAB drilling over the eastern anomaly, further dipole-dipole IP lines to the north of the current gridded area, and follow up RC percussion/diamond drilling is proposed for the fifth tenure year. The proposed expenditure is $300 000.

1. INTRODUCTION

Exploration Licence 7331 is located approximately 150 km south southeast of Darwin in the Fenton locality (Fig 1). It is contained within the Pine Creek 1:250 000 (SD52-08) and Tipperary 1:100 000 (5170) map sheet areas.

The licence was taken out to explore for gold mineralisation within folded and sheared South Alligator Group rocks beneath thin Cambrian cover.

Work during the first three tenure years indicated two coincident IP and magnetic anomalies. Drilling of these anomalies identified quartz sulphide veining associated with the western anomaly and altered graphitic schists in the eastern anomaly. Minor gold was identified with both anomalies, with maximum results including 12 m @ 0.44 ppm Au from FRC 8 into the western anomaly, and 1 m @ 0.65 ppm Au, 140 ppb Pd from FDH 2 into the eastern anomaly.

This report covers work completed during the fourth tenure year from 3 May 1994 to 2 May 1995.

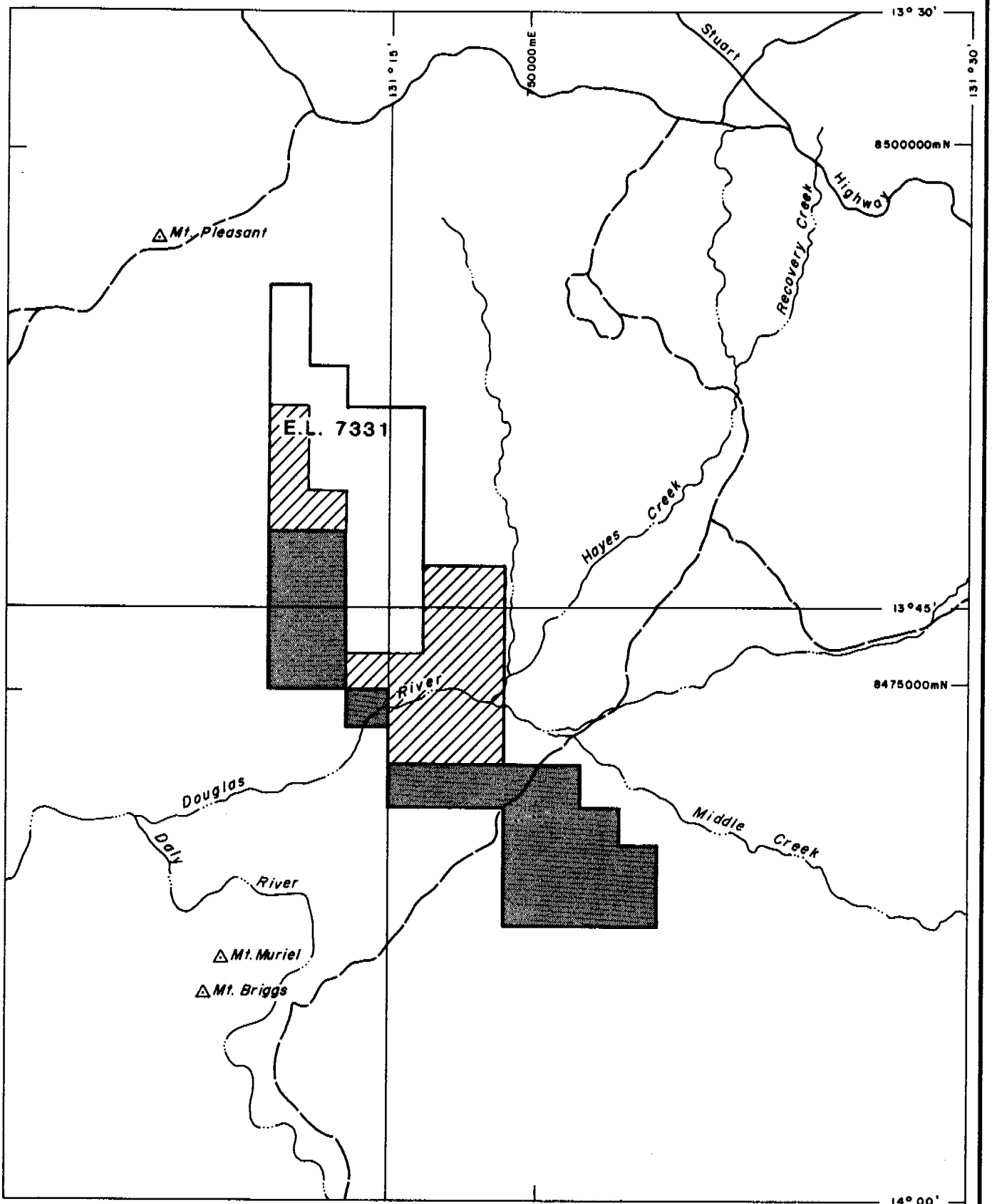
2. LOCATION, TOPOGRAPHY AND ACCESS

Exploration licence 7331 is located in the Douglas - Daly region approximately 150 km south southeast of Darwin.

Access to the area may be gained via the Oolloo road which leads from the Old Stuart Highway south of the Adelaide river township. Access into E.L.7331 from the Oolloo Road can be gained by dirt tracks which service Tipperary and Douglas Stations. The EL straddles the Tipperary, Douglas and Labelle Downs pastoral properties.

The area is principally contained within the gently undulating carbonate plains of the Daly Basin. The area is within the catchment area of the Daly River and is drained by the Douglas River and Hayes Creek.

The region is subject to a monsoonal climate with the wet season extending between the months of November to March, the heaviest rainfall occurring during January and February. Average annual rainfall is between 1200 mm and 1400 mm. Temperatures range from a mean annual maximum of 34 deg C to a mean annual minimum of 20 deg C.



Relinquished 13th April 1993

Relinquished 2nd April 1994

DARWIN

GEOPEKO

A DIVISION OF PEKO-WALLSEND OPERATIONS LTD.
A.C.N. 000 081 434

Scale 1: 250 000

5 0 5 10 km

Geo R. Sowerby	Map Ref.
Drawn I.R.B.	E.L. 7331 LOCATION DIAGRAM
Checked	Figure 1
Date 18-5-1993	Dwg. No NPC 023 285

3. REGIONAL GEOLOGY

Exploration Licence 7331 is situated on the central-western side of the Pine Creek Geosyncline and lies on the north eastern margin of the Cambrian Daly Basin. The Pine Creek Geosyncline has been extensively described previously, most notably by Needham and Stuart-Smith (1980). In the Fenton area rocks of the South Alligator Group, consisting of banded quartz ironstone, carbonaceous phyllites, cherty tuff and greywacke rocks are intruded by granites of the Cullen Batholith. To the south and west these rocks are unconformably overlain by Cambrian Daly river Group sediments. The Daly River Group consists of shallow dipping, undeformed, dolomites, siltstone and sandstone laid down in shallow water subtidal conditions.

4. TENURE

Exploration Licence 7331, comprising 61 blocks on the Tipperary 1:100000 mining tenure map no. 14/5, was granted to Peko Exploration Ltd (now North Ltd) on 3 May 1991 for a period of six years.

The licence was subsequently reduced by relinquishment of 25 blocks in May 1993, and a further 18 blocks in May 1994 (Fig 1).

The retained licence area during the fourth year of tenure comprised the following blocks on the Tipperary 1:100000 Mining Tenure Map 14/5:

Blocks	No of Blocks
48/23	
49/23	
50/23 - 50/24	
51/24 - 51/26	
52/24 - 52/26	
53/25 - 53/26	
54/25 - 54/26	
55/25 - 55/26	
56/25 - 56/26	
TOTAL	**18**

5 PREVIOUS COMPANY EXPLORATION

The area coinciding with EL 7331 has been explored only briefly in recent years. In 1989 Newmont conducted regional exploration over the area in search of base metal deposits associated with the Tolmer and Daly River Group rocks. No detailed examination of the underlying Lower Proterozoic geology was reported.

6. PREVIOUS EXPLORATION - NORTH LIMITED (Formerly Geopeko)

6.1 FIRST TENURE YEAR

Exploration during the first tenure year concentrated on data compilation and interpretation of NTGS geophysical data covering the Tipperary 1:100000 sheet. Reconnaissance ground magnetic surveys were also carried out. Initial interpretation indicated that an anticlinal structure in South Alligator Group rocks lies under less than 100 metres of Cambrian cover in the central portion of EL 7331. Northwest striking faulting and/or shearing is also apparent in imaged processed airborne magnetics.

6.2 SECOND TENURE YEAR

6.2.1 Geophysics

Reconnaissance ground magnetic surveys covering 12 line km were conducted over east west lines to define magnetic highs evident in NTGS aeromagnetic data .

A multi-client survey was conducted by Aerodata over the south west of the Pine Creek Geosyncline during September 1992. Geopeko contributed to this survey by funding the survey over an area of 225 sq.km. covering EL 7331.

6.2.2 Reverse Circulation Drilling

Three Reverse Circulation drill holes were drilled in the central part of EL 7331 to define the depth to lower Proterozoic lithologies and to determine their nature. All three holes intersected Proterozoic basement at depths of between 38 and 60 metres.

HOLE	Depth to Prot (m)	EOH (m)
FENRC1	49	99
FENRC2	45	99
FENRC3	34	81

The dominant basement lithologies intersected were quartz-sericite-chlorite schists and quartz-sericite phyllites. Minor quartz-sulphide veining and chlorite, hematite alteration was evident in holes FENRC2 and FENRC3.

6.3 THIRD TENURE YEAR

6.3.1 Geophysics

Two lines (8483500 N and 8485500 N) of dipole-dipole IP across the 'eastern' and 'western' aeromagnetic anomalies identified coincident chargeability anomalies (Fig 2). The western magnetic / IP anomaly was gridded and read with gradient array IP and ground magnetics (block 1, Fig 3). Results indicated the source of the magnetic anomalies to be deeper than the source of the spatially related IP anomalies, with a depth to the top of the magnetic anomaly of about 200 metres.

6.3.2 Drilling

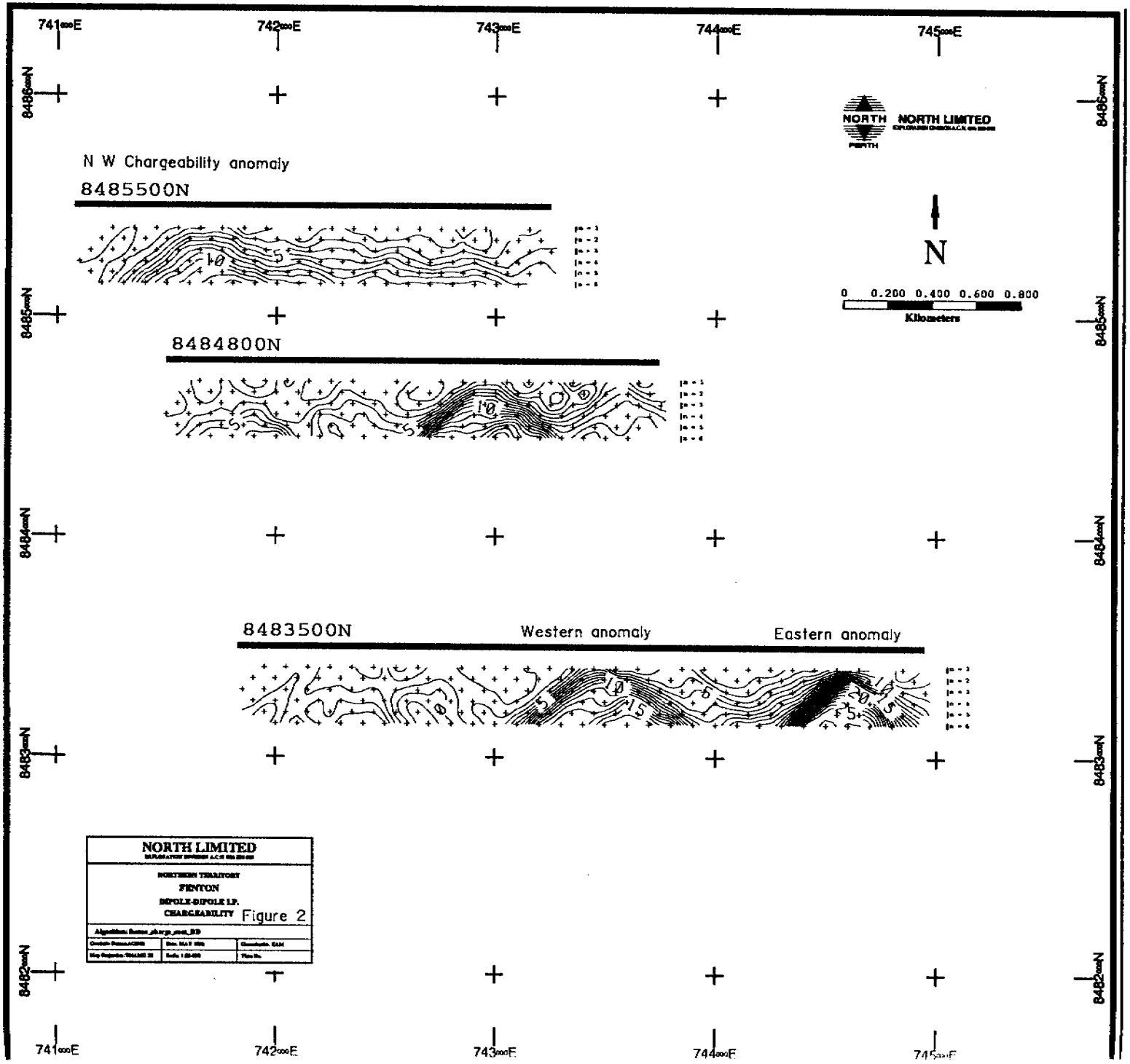
Percussion holes (FRC4 - 20) totalling 1699 metres and two diamond holes (FDH 1 & 2) were drilled to test the coincident magnetic and IP anomalies.

Holes into the western anomaly intersected significant quartz-sulphide and hematitic quartz veining, with maximum results from FRC8 of 12 m @ 0.44 ppm including 1 m @ 1.95 ppm. FDH 1 intersected pyrrhotite and quartz-pyrrhotite veining within quartz-muscovite schists from about 200 m depth, with 2 m @ 0.63 ppm Au.

FDH 2 into the eastern anomaly intersected graphitic schists and granite, with maximum results of 0.65 ppm Au and 141 ppb Pd from 90 to 91 m.

Drill logs from FDH 1 and 2 are included in Appendix 1, as they were not completed at the time of the last annual report.

The IP anomalies are interpreted as being due to quartz-sulphide veining in the western anomaly, and altered graphitic rocks in the eastern anomaly. Pyrrhotite appears to be the cause of the magnetic anomalies.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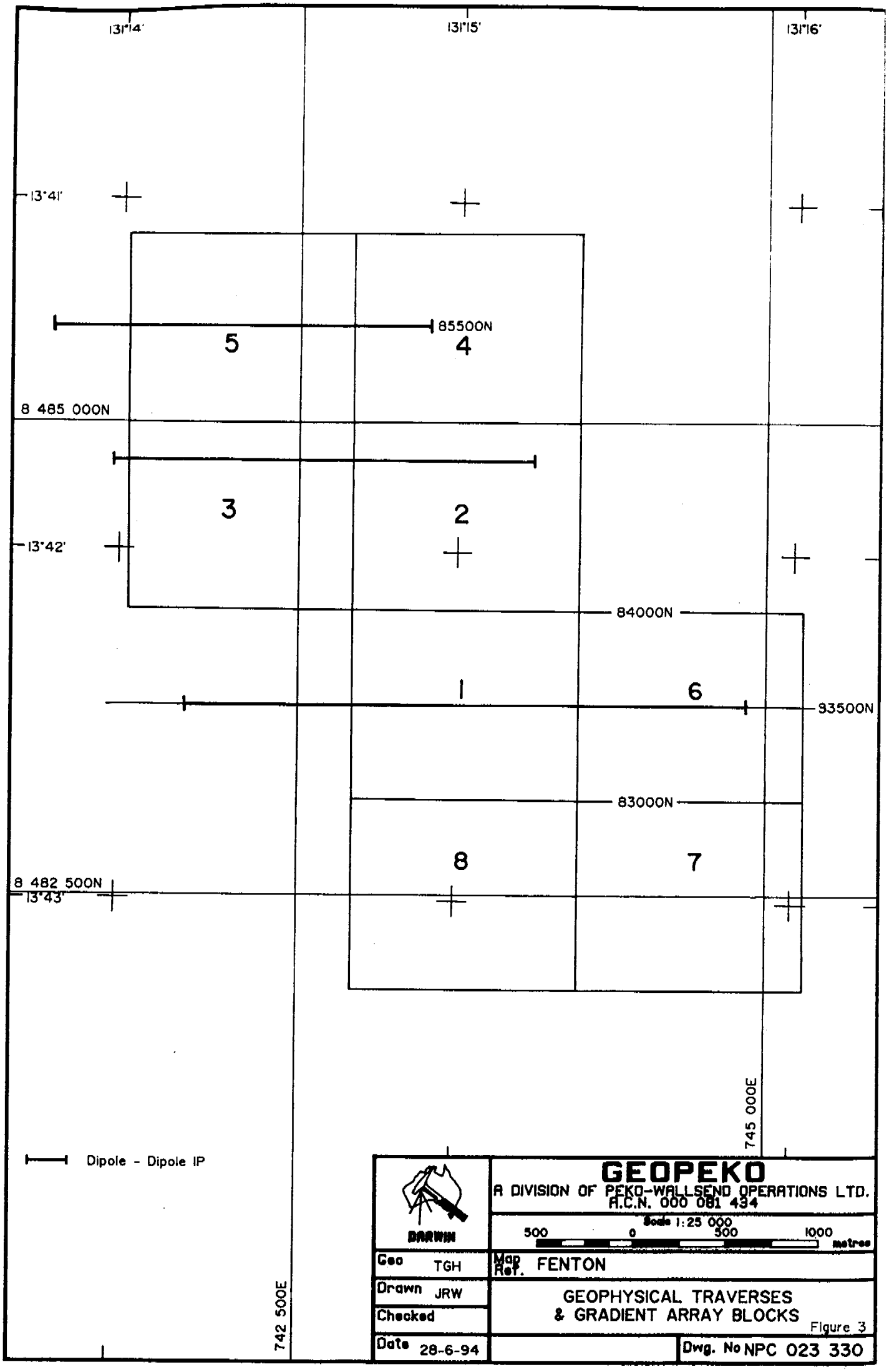
NORTH LIMITED
NORTHERN TERRITORY
FENTON
DIPOLE-DIPOLE I.P.
CHARGEABILITY
Figure 2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Dipole - Dipole IP
DARWIN
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A DIVISION OF PEKO-WALLSEND OPERATIONS LTD.
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Map Ref. FENTON
GEOPHYSICAL TRAVERSES
& GRADIENT ARRAY BLOCKS
Figure 3
Dwg. No NPC 023 330

7. EXPLORATION - FOURTH TENURE YEAR

7.1 GRIDDING

Ninety five line kilometres of gridding was completed over a further seven 1.2 x 1 km blocks (block nos. 2 to 8, Fig 3), using a Trimble 4000 GPS system.

The grid covered an area surrounding the two IP anomalies identified during 1993.

7.2 GEOPHYSICS

7.2.1 IP Survey

A gradient array IP survey covering the seven gridded blocks was completed by Goanna Exploration using a Zonge GTT-10 transmittor and a Zonge GDP-16 receiver (Fig 4 chargeability, Fig 5 resistivity).

One further line of dipole-dipole IP was read (line 8484800 N from 741500 E to 743800 E, Fig 2 chargeability, Fig 6 resistivity).

The two IP anomalies previously identified (western and eastern anomalies, Fig 2) were further delineated and another anomaly to the west was identified (north-west chargeability anomaly, Fig 2). The eastern anomaly appears to be due to a graphitic unit possibly in the Koolpin Formation near the granite margin. Vein and disseminated sulphides intersected in drilling may explain the western anomaly. The cause of the north-west chargeability anomaly is unknown, although minor sulphides in a shear zone were intersected in FDH 5 (see drilling below).

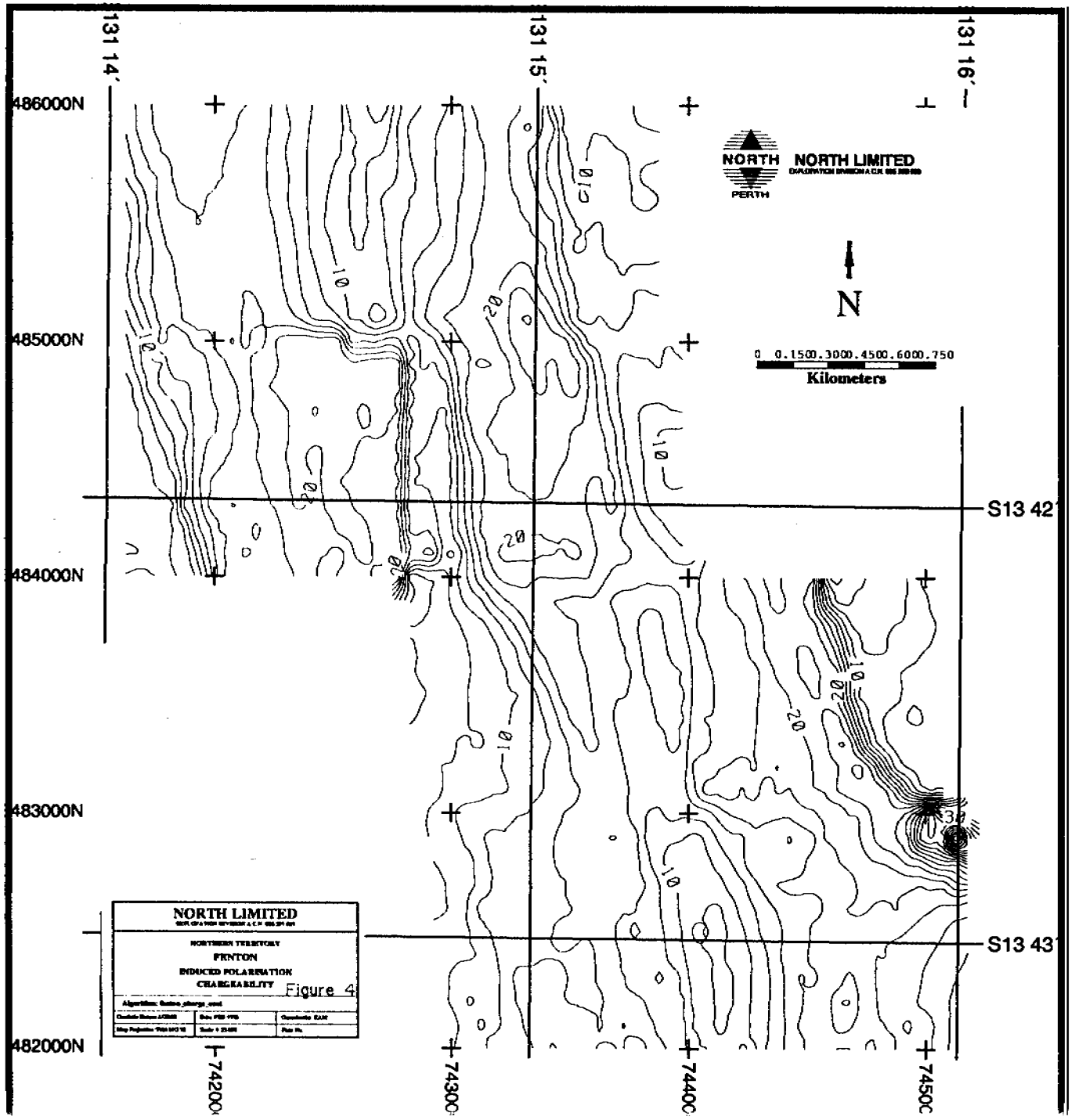
7.2.2 Ground Magnetics

The Fenton grid (Fig 3) was read with ground magnetics using a GEM GSM-19 magnetometer (Fig 7). Results confirmed the eastern and western magnetic anomalies, slightly deeper ($\sim$200 m) and displaced slightly to the west of the coincident IP anomalies. High frequency noise was due to surficial material.

7.3 DRILLING

7.3.1 Reverse Circulation/Diamond Drilling

During the fourth tenure year two drilling programs were completed, the first (FRC 21 - 40) by Gomex using an RCD150 rig, and the second (FDH 3 - 5, FRC 41 - 45) by Gorey and Cole using a Warman 1000 rig (drill hole locations Figs. 8 & 10). A total of 3725 m of RC percussion and 303 m of NQ diamond core was drilled as follows: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131 15'
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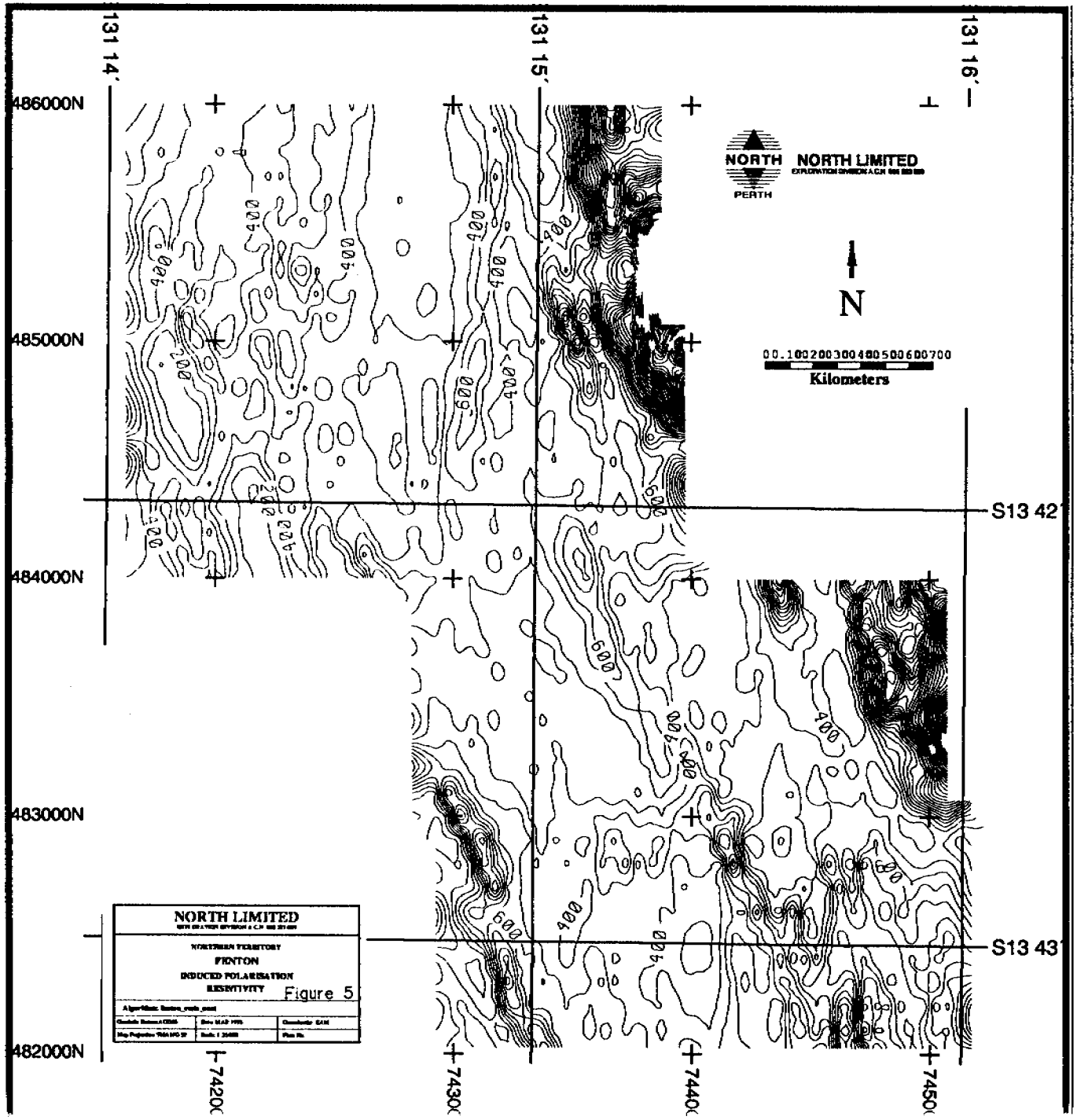
NORTHERN TERRITORY
FENTON
INDUCED POLARISATION
CHARGEABILITY
Figure 4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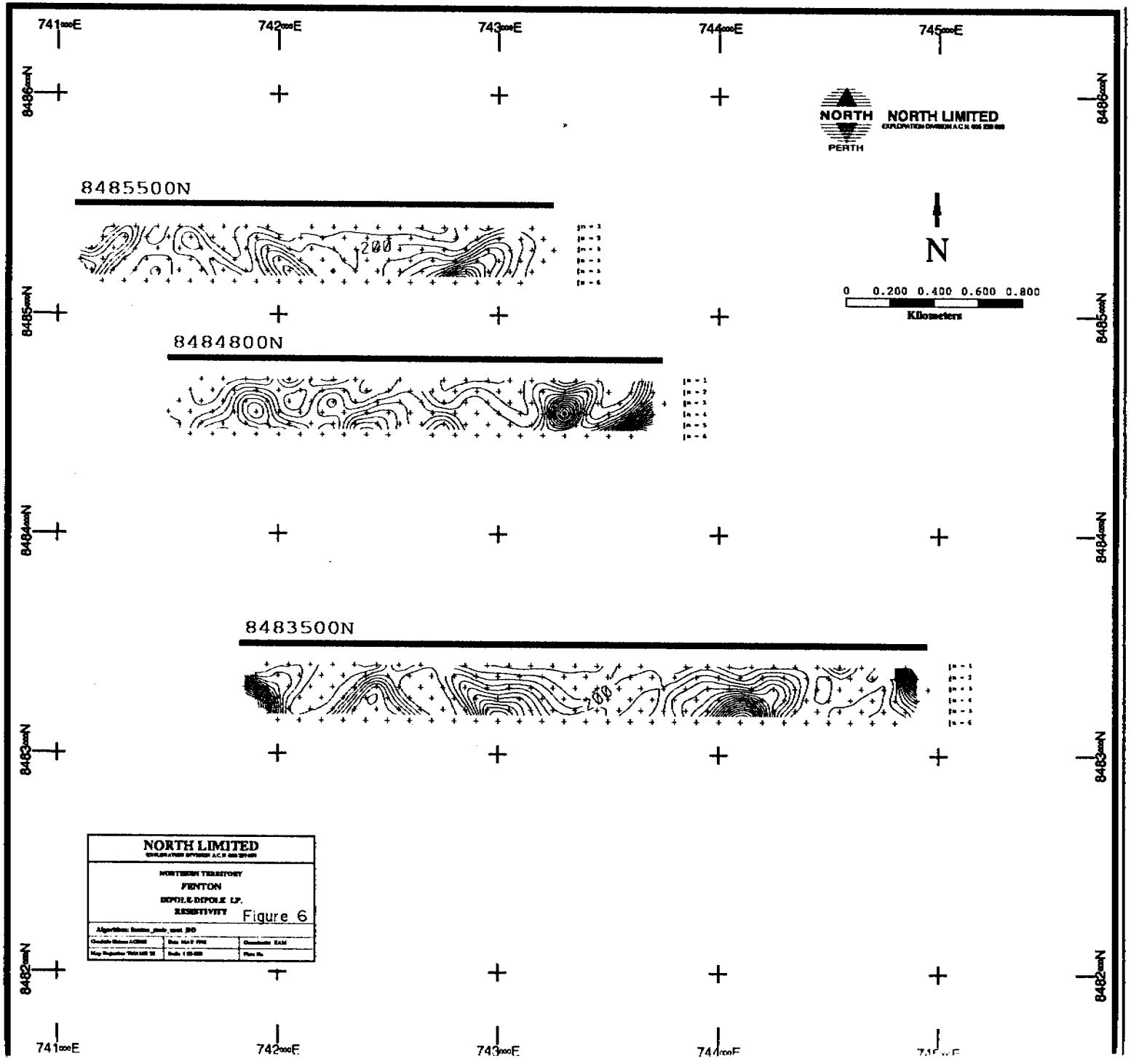
7430
7440
7450
S13 42
S13 43
NORTH LIMITED
NORTH
PERTH
N
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8
Kilometers
NORTH LIMITED
NORTHERN TERRITORY
FINTON
INDUCED POLARISATION
RESISTIVITY
Figure 5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PERTH
NORTH LIMITED
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Kilometers
8485500N
8484800N
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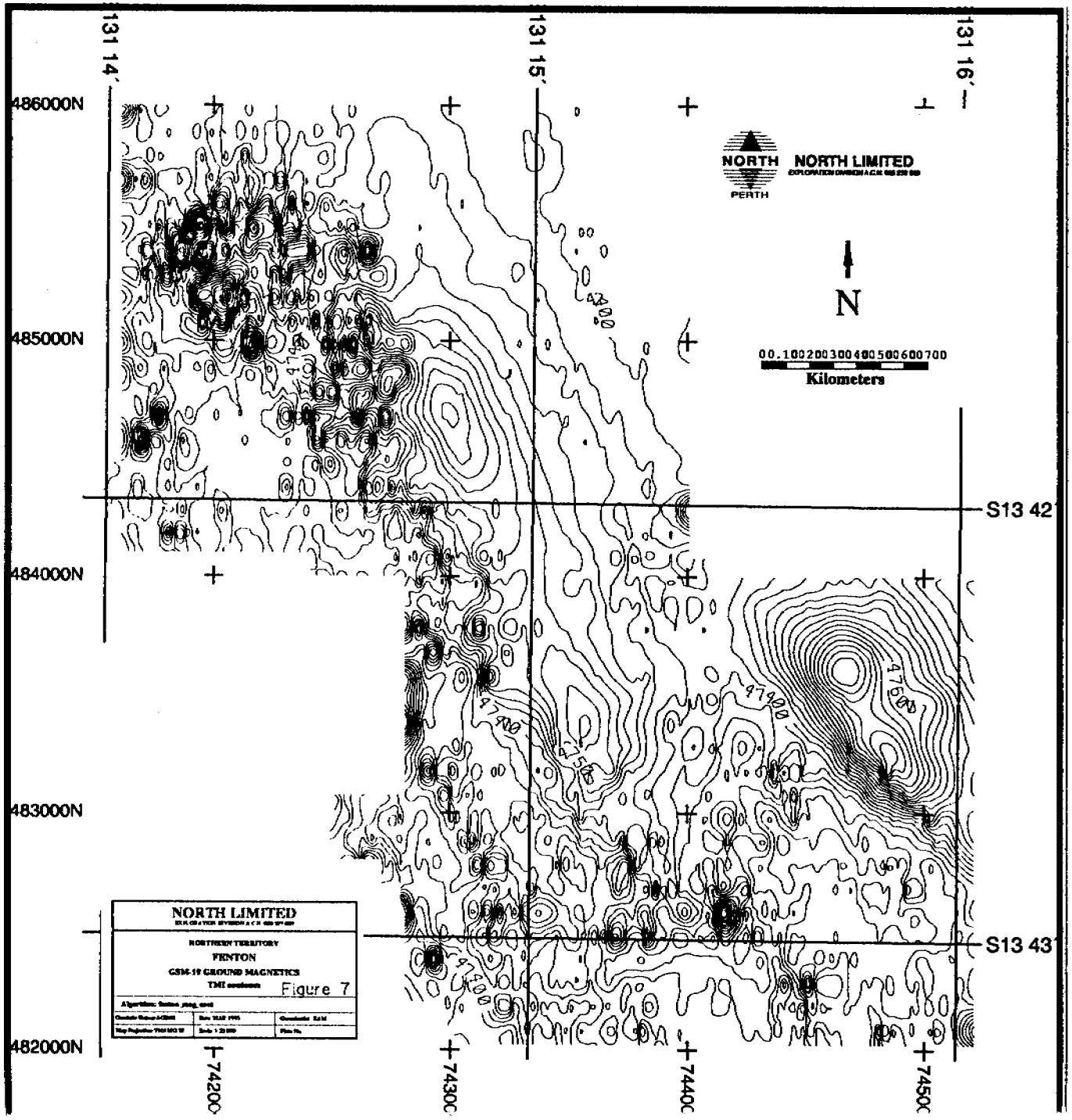
NORTH LIMITED
NORTHERN TERRITORY
FENTON
DIPOLE-DIPOLE I.P.
RESISTIVITY
Figure 6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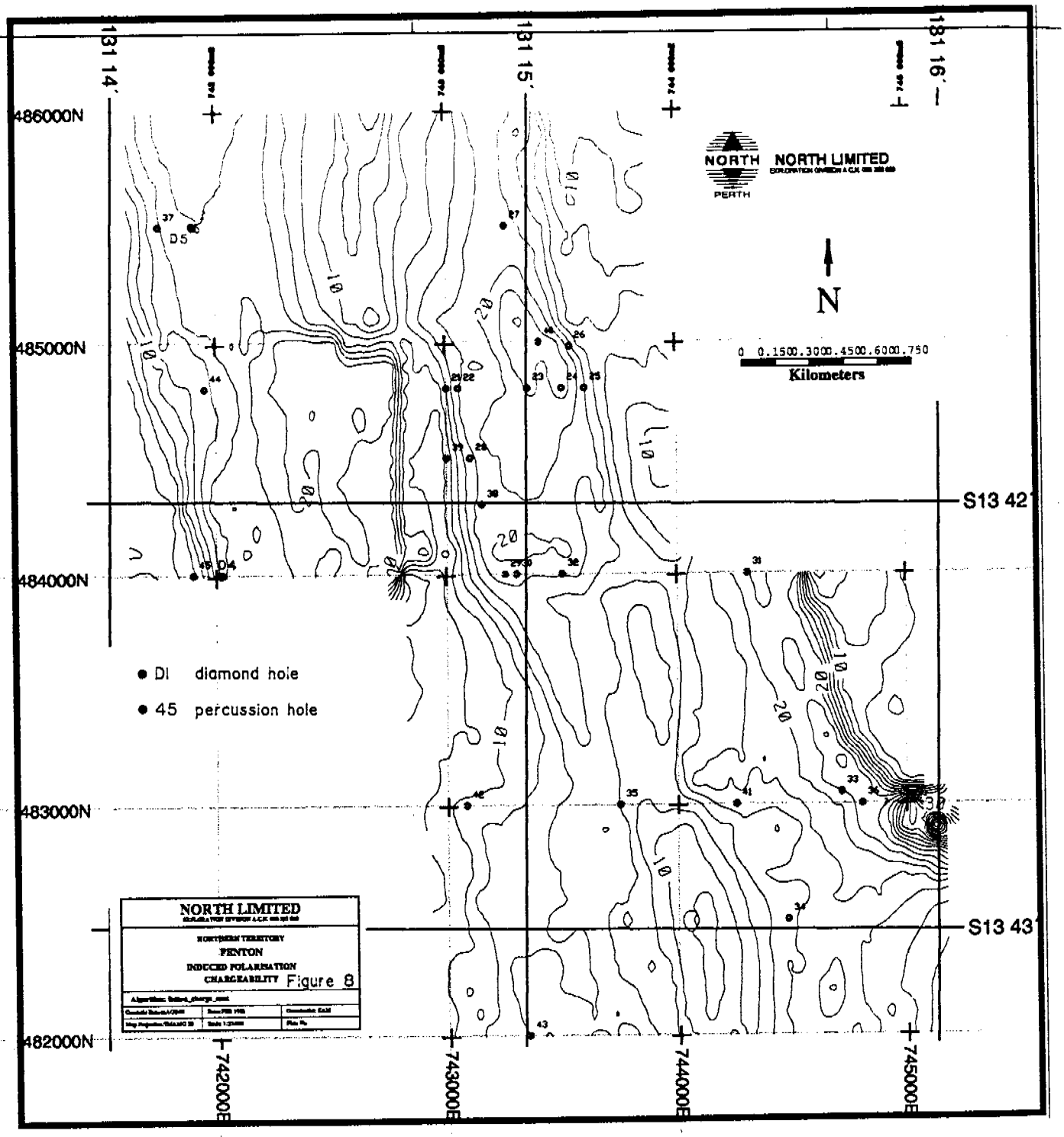
NORTH LIMITED
NORTHERN TERRITORY
FENTON
GSM-19 GROUND MAGNETICS
TMI
Figure 7


131 14'
131 15'
131 16'
486000N
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742000E
743000E
744000E
745000E
S13 42
S13 43
NORTH LIMITED
PERTH
N
0 0.1500.3000.4500.6000.750
Kilometers
D1 diamond hole
45 percussion hole
NORTH LIMITED
NORTHERN TERRITORY
FENTON
INDUCED POLARISATION
CHARGEABILITY
Figure 8

TABLE 1 - FENTON DRILL HOLE STATISTICS

Hole		Northing	Easting	Az	Dip	Depth	Precollar
FRC	21	8484800	743000	270	60	120	
FRC	22	8484800	743050	270	60	200	
FRC	23	8484800	743350	270	60	120	
FRC	24	8484800	743500	270	60	74	
FRC	25	8484800	743600	270	60	120	
FRC	26	8484980	743535	270	60	120	
FRC	27	8485500	743250	270	60	110	
FRC	28	8484500	743100	270	70	150	
FRC	29	8484000	743250	270	70	150	
FRC	30	8484000	743300	270	70	150	
FRC	31	8484000	744300	90	60	150	
FRC	32	8484000	743500	90	60	150	
FRC	33	8483050	744710	45	60	150	
FRC	34	8482500	744475	90	60	150	
FRC	35	8483000	743750	270	60	144	
FRC	36	8483000	744800	70	60	150	
FRC	37	8485500	741750	270	70	166	
FRC	38	8484300	743150	270	70	150	
FRC	39	8484500	743000	90	60	150	
FRC	40	8485000	743400	90	60	150	
FRC	41	8483000	744250	270	60	94	
FRC	42	8483000	743080	270	60	104	
FRC	43	8482000	743350	90	60	102	
FRC	44	8484800	741950	270	70	150	
FRC	45	8484000	741900	90	80	76	
FDH	3	8483000	744900	45	70	207.8	135
FDH	4	8484000	742025	90	70	194.8	132
FDH	5	8485500	741900	270	70	279.2	108

All holes were geologically logged (Appendix 1, Figs. 11 - 31).

A number of down hole camera surveys were taken (Appendix 3), and core was oriented where possible (see diamond drill logs).

7.3.2 Geological Results

Western IP / Magnetic Anomaly

Drill holes FRC 21 to 30, 32, 35, 38, 39 and 40 were targeted into the western anomaly (Fig 8). Lithologies intersected were predominantly quartz-mica ± chlorite, sericite schists and meta-greywackes. Minor quartz-pyrite veining was intersected in many of the holes, but the cause of the IP chargeability and magnetic anomalies was not intersected (Figs 14 - 20, 23, 25, 26).

Eastern IP / Magnetic Anomaly

Percussion holes FRC 31, 33, 34 and 36 were drilled over the eastern IP anomaly (Fig 8). Lithologies intersected included chert, pegmatite, amphibolite and schists, but did not intersect the cause of the anomalies (Figs 21, 22).

FDH 3 was targeted on IP chargeability, resistivity and magnetic highs (Fig 11). Siliceous meta-siltstones and granitic sills just below the Cambrian are interpreted as causing the resistivity high. Graphitic schist (probably metamorphosed carbonaceous shales of the Koolpin Formation) intersected from 176 to 203 m explains the chargeability anomaly. The cause of the magnetic anomaly was not intersected, but is assumed to be due to pyrrhotite within meta-sediments adjacent to the granite. Thin section no. 23708 (appendix 4) identified abundant sulphides in lenses in graphitic schist at 201.9 m in FDH 3, including pyrite-marcasite masses after pyrrhotite, barite, galena and chalcopyrite.

North Western Broad Chargeability Anomaly

Hole FRC 37 was targeted at the broad IP anomaly in the north east (Fig 8). Dominant lithologies included quartz-muscovite phyllite and meta-greywacke, with a 2 m quartz-pyrite rich graphitic shear intersected from 104 - 106 m (Fig 24).

FDH 4 was targeted on a deep chargeability anomaly beneath a shallow resistivity high. A quartz and hematite vein intersected from 70 - 74 m may have contributed towards the high resistivity, although the thickening in the Cambrian sequence apparent from adjacent drill hole FRC45 may also have an effect. The chargeability was not explained by the hole which was terminated at 194.80 m (Fig 12). Proterozoic lithologies were predominantly meta-conglomerates with lesser meta-greywacke and meta-siltstones, interpreted as the lower part of the Burrell Creek Formation. Hematite, sericite ± chlorite and pyrite alteration was common, and a brecciated weakly graphitic fault zone was intersected from 166.40 m - 167.45 m. Chloritic, rarely graphitic fractures were common but not thought sufficient to explain the high chargeability targeted.

FDH 5 was targeted on a deep chargeability anomaly (Fig 13). Hole FRC37 was drilled in August at the same target, collared 150 m to the east of FDH 5. Hole FRC37 was terminated at 150 m without reaching the target but returned 0.8 ppm Au from 82 - 84 m in a "cherty rock". The chargeability anomaly is thought to be partly due to pyrite within a chloritic shear zone intersected from 241 - 279.8 m (EOH) in FDH 5. Pyrite occurs both disseminated and more massive (263.30 - 264.10 m) within the quartz-chlorite rich shear. A broad north-south trending sulphide rich shear zone is interpreted as causing the chargeability high.

Resistivity Anomalies

Holes FRC 41 - 45 were targeted at resistivity anomalies identified from the gradient array IP survey (Figs. 5, 6, 8). FRC41 intersected 78 m of Cambrian which was thicker than expected from adjacent holes (54 m and 46 m), which may explain the resistivity anomaly. Proterozoic basement lithologies were quartz-muscovite-chlorite schists (Fig 27).

FRC45 is thought to have a similar explanation for the high resistivity, as the hole terminated due to excess water at 76 m still in Cambrian Limestone (Fig 31). Basement is thought to be at greater than 100 m depth, which contrasts with FDH 4 (only 125 m to the east) where the base of the limestone was at 30 m, and basement at 62 m.

FRC42 intersected chloritic schist and meta-arenite below 62 m of Cambrian (Fig 28); FRC43 intersected meta-pelites and meta-siltstones beneath 64 m of Cambrian (Fig 29), and FRC44 was predominantly meta-arenites beneath 60 m of Cambrian (Fig 30). It is thought the high resistivities in these holes may be due to slightly more resistive primary Lower Proterozoic lithologies.

7.3.3 Analytical Results

Percussion holes were sampled over 2 m intervals and sampled for Au, except for FRC 42 - 45 which were additionally sampled for Cu, Pb and Zn. The diamond holes FDH 3, 4 and 5 were cut and assayed at one metre intervals for Au, Cu, Pb and Zn (results appendix 3).

TABLE 2 - DRILLING INTERSECTIONS > 100 ppb Au

Maximum results are tabulated below:

Hole	Interval (m)	Au (ppm)	Lithology
FRC 28	106 - 108	0.20	amphibolite
	124 - 126	0.12	quartz-sericite schist with quartz + pyrite + arseno pyrite veining.
	142 - 144	0.20	cherty phyllite
FRC 29	86 - 88	1.35	hematitic sericitic phyllite
	90 - 92	0.37	quartz-pyrite veining in schist
	96 - 98	0.14	quartz-pyrite veining in schist
	126 - 128	0.12	pyritic fractures in phyllite
	136 - 138	0.22	meta-greywacke, weakly pyritic
FRC 30	100 - 102	0.33	spotted muscovite schist
FRC 33	106 - 108	0.78	quartz-muscovite-chlorite schist
FRC 37	72 - 74	0.21	chert
	82 - 84	0.75	chert
	84 - 86	0.12	meta-greywacke
	90 - 92	0.16	meta-greywacke
	106 - 108	0.21	chert/phyllite
FRC 39	130 - 134	0.18	quartz-pyrite veining in chloritic phyllite
	140 - 144	0.53	quartz-pyrite veining in chloritic phyllite
FRC 43	60 - 62	0.25	basal Cambrian conglomerate
FDH 4	151 - 152	0.11	fractured meta-siltstone
FDH 5	244 - 245	0.12	sheared meta-conglomerate
	246 - 247	0.84	sheared meta-conglomerate

8. PETROLOGY

A total of 39 samples of quarter drill core from drill holes FDH 1 to FDH 5 were sent to Pontifex & Associates for thin section descriptions.

Hole	Sample Nos.
FDH 1	FEN-TS/ 1 - FEN-TS/10, FEN-TS/26 - 28
FDH 2	FEN-TS/11 - FEN-TS/25
FDH 3	23707 - 23708
FDH 4	23706
FDH 5	23701 - 23705

Mineralogical reports and sample locations are included as Appendix 4.

9. EXPLORATION EXPENDITURE

Total expenditure on EL 7331 for the period 3 May 1994 to 2 May 1995 was $410 000 as detailed below:

Category	Expenditure ($)
Salaries & Wages	124 977
Tenement Expenses	820
Base Support Costs	13 985
Vehicles	11 794
Travel and Accommodation	6 325
Field Supplies	14 914
Maps & Consultants	621
Communications	629
Maintenance	1 014
Drilling	180 379
Assaying	22 981
Mineralogy and Petrology	269
Geophysics	21 350
General Contractors	2 472
Data Processing	71
Management Costs	7 121
Other Costs	378
TOTAL	**$410 100**

This total of $410 100 compares with the covenant of $291 000 set for the fourth year of tenure.

10. PROPOSED WORK PROGRAM & EXPENDITURE

The following work program is proposed for the period 2.5.95 to 2.5.96 (see Fig 9):

- mapping of any Proterozoic outcrop in the north and east of the licence area;

- conduct four x 2 km lines of dipole-dipole IP to the north of the present IP coverage;

- carry out a 2000 m RAB or aircore shallow drilling program over the two eastern blocks of the current gradient array survey (and extending to adjacent ELA 9050);

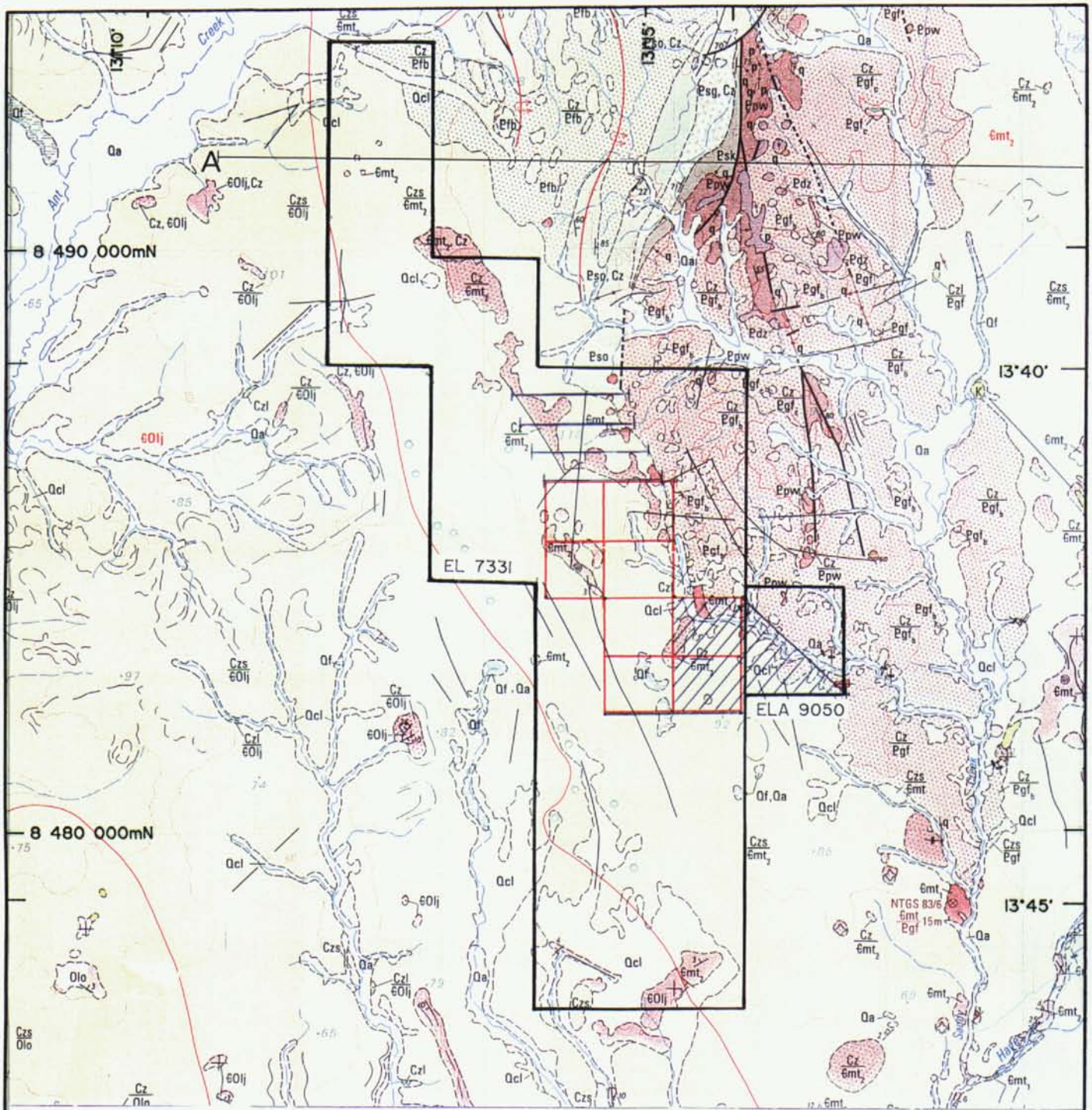
- approximately 3000 m RC percussion and diamond drilling following up any anomalies identified from the above.

The proposed expenditure for completion of this program is $ 300 000.

11. BIBLIOGRAPHY

Stuart-Smith,P.G., Wills,K., Crick,I.H. and Needham,R.S.,1980 , **Evolution of the Pine Creek Geosyncline.** In Ferguson,J. and Goleby,A.B.(Editors), **Uranium in the Pine Creek Geosyncline**,pp23-37. International Atomic Energy Agency, Vienna.

Kruse,P.D., Whitehead,B.R. and Mulder, C.A., 1990. **Tipperary 5170 - 1:100 000 Geological Map Series, Explanatory Notes.** Northern Territory Geologic Survey.


EL 7331
ELA 9050
8 490 000mN
8 480 000mN
13°40'
13°45'
A
A'
NTGS 83/6
6mt 15m
Pgf
Existing IP coverage
Proposed dipole - dipole IP
Proposed RAB drilling
DALY RIVER GROUP
Oolloo Dolostone
Jinduckin Formation
Tindall Limestone
Jindare Formation
TOLMER GROUP
Hinde Dolomite
Stray Creek Sandstone
Depot Creek Sandstone
FINNISS RIVER GROUP
Burrell Creek Formation
SOUTH ALLIGATOR GROUP
Mount Bonnie Formation
Gerowie Tuff
Koolpin Formation
MOUNT PARTRIDGE GROUP
Wildman Siltstone
Zamu Dolerite
Shoobridge Granite
Fenton Granite
McMinns Bluff Granite
735 000mE
745 000mE
DARWIN
GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD.
A.C.N. 000 081 434
Scale 1:100 000
2 0 2 4 Kms
Geo TGH
Map Ref.
Drawn JRW
Checked
Date 8/2/95
FENTON PROJECT
Figure 9
Dwg. No

APPENDIX 1
Drill logs

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
WESTERN AUSTRALIA
DRILL LOG : DDH

NOMINAL COLLAR POSITION
Easting : 743600
Northing : 8483450
Azimuth(Grid) : 265°
Inclination : -70°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : FENTON
PROSPECT :
HOLE No. : FDH 1
DEPTH : 303.0m
DRILL DATE: 13/11/93

Proposed by: RDS
Logged by : RDS
Contractor : Gorey and Cole Rig : VK600B
Reason for drilling: Test coincident IP/Mag anomaly.
Summary of results :
Comments :

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
13861	60	61	0.002	0.002
13862	61	62	0.095	
13863	62	63	0.004	
13864	63	64	-0.001	
13865	64	65	0.003	
13866	65	66	0.230	0.150
13867	66	67	0.230	0.200
13868	67	68	0.012	
13869	68	69	0.006	
13870	69	70	0.003	0.004
13871	70	71	-0.001	
13872	71	72	0.009	
13873	72	73	-0.001	
13874	73	74	-0.001	
13875	74	75	0.038	
13876	75	76	0.008	
13877	76	77	0.003	
13878	77	78	0.015	
13879	78	79	0.026	
13880	79	80	0.010	
13881	80	81	0.004	
13882	81	82	0.006	
13883	82	83	0.004	
13884	83	84	0.088	
13885	84	85	0.010	
13886	85	86	0.005	

GEOLOGICAL LOG Water Cut :

0 - 59.40m PERCUSSION PRECOLLAR - NO LOG.

59.40m Start of core.

59.40 - 66.10m SHEARED INTERBEDDED QUARTZ-MUSCOVITE PHYLLITE/META-ARKOSE
Pale green phyllite and fine to medium grained foliated arkose. Frequent thin strongly oxidised bedding parallel quartz haematite veins.
Phyllite intervals exhibit phyllitic and schistose fabric defined by fine chlorite/sericite foliation.
Quartz and feldspar grains in arkose beds indicate variable stretching indicating shearing, increasing towards base of interval.
"Spotted schist" at 62.00 - 62.30m
64.70 - 66.10m
Muscovite-quartz schist with abundant dark green spots (1 - 2mm), possibly chlorite altered cordierite? or tourmaline.

66.10 - 66.80m HAEMATITIC QUARTZ VEIN
Blue/grey quartz, haematitic and chloritic on upper and lower contacts.
Haematite within quartz pseudomorphs pyrite.

66.80 - 69.10m HAEMATITIC PHYLLITIC SILTSTONE
Pale green phyllite with thin bedding parallel red haematite bands. Haematite associated with thin (<1mm) quartz, specular haematite veins.

69.10 - 73.45m INTERBEDDED META-ARKOSE/QUARTZ-MUSCOVITE-BIOTITE SCHIST
Dark grey-green interbedded arkose/phyllite/schist.
Fining of arkose beds indicates facing downhole.
Arkose is mildly foliated.

73.45 - 73.90m "SPOTTED SCHIST"
Quartz-sericite schist with 1 - 2mm diameter chlorite "spots", altered to haematite in places.
Foliation 70° tca.

73.90 - 83.50m INTERBEDDED PHYLLITIC SILTSTONE AND META-ARKOSE
Dark grey/green.
Arkose has moderate foliation defined by chlorite and sericite.
Occasional thin (1 - 2mm) bedding parallel haematite quartz veins.
82.5 - 83.5m Pale colouration of siltstone - possibly mild sericite/illite alteration.
Increase in haematite banding.

83.50 - 86.05m QUARTZ, SULPHIDE VEIN/BRECCIA
Upper and lower contact, sheared carbonaceous/graphitic shale. Upper contact approx parallel tca.
83.7 - 83.90m Abundant pyrite approx 70%.
Pyrite occurs in coalescing spherical aggregates within blue grey quartz.
Occasional graphitic fragments within quartz.
Red haematite occurs where quartz is fractured with trace chalcopyrite.
83.9 - 86.05m Large angular carbonaceous phyllite fragments within quartz.
Approx 2 - 5% sulphides occur throughout interval as coarse pyrite aggregates.
Fine arsenopyrite/pyrite bands within and along edges of siltstone fragments.
Irregular contact at base, crosscutting siltstone foliation (i.e. post metamorphism).

ANALYTICAL DATA					GEOLOGICAL LOG
Sample NT	from (m)	to (m)	Au ppm	Au ppm	
13887	86	87	0.050		86.05 - 87.40m SHEARED CARBONACEOUS PYRITIC PHYLLITE Dark grey, pyritic carbonaceous phyllite, moderately foliated. Pyrite is sheared. Thin quartz pyrite veins show boundinage textures. Anastomosing texture where shearing is strongest. 5cm wide arsenopyrite zone at 87.00m. Irregular contact with bedding/foliation.
13888	87	88	0.010		87.05 - 101.10m INTERBEDDED META-ARKOSE/QUARTZ-MUSCOVITE-BIOTITE SCHIST Greenish medium grained foliated arkose fining into phyllitic siltstones and fining -> downhole. Moderately foliated. Thin (1 - 2mm) quartz haematite pyrite veins occur subparallel to S0 and as irregular veins displaced by foliation. Occasional thin fragmented veins show dextral rotation.
13889	88	89	-0.001	-0.001	
13890	89	90	0.005		
13891	90	91	0.003		
13892	91	92	0.013		
13893	92	93	0.007		
13894	93	94	0.016		
13895	94	95	0.016		
13896	95	96	0.028		
13897	96	97	0.025		
13898	97	98	0.033		
13899	98	99	0.021		
13900	99	100	0.030		
13901	100	101	0.020		
13902	101	102	0.340	0.240	101.10 - 106.60m "SPOTTED" PHYLLITE/SCHIST Pale grey sericite, phyllitic siltstone, abundant dark green spots (1 - 2mm diameter) possibly tourmaline. Thin S1 parallel quartz-pyrite veins increasing towards base. Quartz arsenopyrite-pyrite veins at 104.80 - 104.85m and 105.70 - 106.0m sub parallel to core axis. Spots coarser and more deformed towards base. Approx 2% pyrite and arsenopyrite occurring parallel to S1. Particularly associated with tourmaline rich layers. Pyrite appears to replace tourmaline in places. Irregular arsenopyrite aggregates scattered through arkose bed at 101.1 - 101.90m. 4cm thick aggregates at 101.70m. Minor associated pink silicification.
13903	102	103	0.022		
13904	103	104	0.009		
13905	104	105	0.036		
13906	105	106	0.016		
13907	106	107	0.006		
13908	107	108	0.055		106.60 - 108.80m META-ARKOSE/QUARTZ-MUSCOVITE SCHIST Interbedded medium grained lithic arkose, "spotted" sericitic phyllite (spots possibly "tourmaline") and quartz-muscovite-biotite schist. Occasional thin (1 - 10mm) quartz-pyrite-arsenopyrite vein parallel to S1/S0.
13909	108	109	0.032		
13910	109	110	0.042		108.80 - 110.90m CARBONACEOUS PYRITIC PHYLLITE Carbonaceous phyllite with abundant irregular quartz-pyrite veins (5 - 20mm). Orange-yellow clay alteration occurs within pyritic zones. Carbonaceous content decreases in bottom metre. Coarsening in bottom 1m, becoming fine grained, foliated meta-arkose.
13911	110	111	0.012		
13912	111	112	0.014		110.90 - 130.40m INTERBEDDED META-ARKOSE/QUARTZ-MUSCOVITE SCHIST/PHYLLITE Interbedded green/grey fine to medium grained foliated arkose and quartz-muscovite +/- biotite schist and phyllite. Occasional thin (1 - 2mm) quartz, pyrite +/- arsenopyrite veins sub parallel to S0. Weak pink "blush" associated with pelitic intervals, possibly albite alteration.
13913	112	113	0.013		
13914	113	114	-0.001		
13915	114	115	0.018		
13916	115	116	0.006		
13917	116	117	0.002		
13918	117	118	0.009	0.010	
13919	118	119	0.045		
13920	119	120	0.037		
13921	120	121	0.022		
13922	121	122	0.030		
13923	122	123	0.022		
13924	123	124	0.005		
13925	124	125	0.022		
13926	125	126	0.013		
13927	126	127	0.007		
13928	127	128	0.051		
13929	128	129	0.009		
13930	129	130	0.048		
13931	130	131	0.018		130.40 - 132.05m CARBONACEOUS PHYLLITE + QUARTZ PYRITE VEINING Moderately foliated carbonaceous phyllite with abundant irregular blue/grey quartz + pyrite veins. Broadly parallel with S0.
13932	131	132	0.056	0.580	

ANALYTICAL DATA					GEOLOGICAL LOG
Sample NT	from (m)	to (m)	Au ppm	Au ppm	
13933	132	133	0.001	0.002	132.05 - 135.30m "SPOTTED" CHLORITE-SERICITE-TOURMALINE SCHIST Well foliated grey-green chlorite-sericite schist, with dark green tourmaline spots (1 - 2mm). Occasional band of pyrite +/- arsenopyrite (up to 2cm thick) sub parallel to S1.
13934	133	134	0.035		
13935	134	135	0.005		
13936	135	136	-0.001		135.30 - 154.10m META-ARKOSE Fine to medium grained foliated arkose with occasional pelitic intervals. Grey/green at top becoming pinkish towards middle of interval. Approx 144 - 149m pink arkose with biotite spots. SO/ quartz arsenopyrite-pyrite veins (10 - 20mm) scattered throughout interval. 30mm thick arsenopyrite band at 147.45m.
13937	136	137	0.018		
13938	137	138	0.003		
13939	138	139	0.013		
13940	139	140	0.006		
13941	140	141	1.010	0.930	
13942	141	142	0.028		
13943	142	143	-0.001		
13944	143	144	0.011		
13945	144	145	0.014		
13946	145	146	0.058		
13947	146	147	0.270	0.250	
13948	147	148	0.076		
13949	148	149	0.040		
13950	149	150	0.200	0.180	
13951	150	151	0.027		
13952	151	152	0.017		
13953	152	153	0.004		
13954	153	154	-0.001		
13955	154	155	0.013		154.10 - 159.70m FRACTURED ALBITISED META-ARKOSE Grey/green medium grained meta-arkose. SO parallel zones of pinkish, red albite alteration approx 10 - 20mm thick with minor associated pyrite + arsenopyrite. Irregular fracturing throughout interval, particularly where altered. Albite alteration trangresses SO in places. Alteration intensifies with depth.
13956	155	156	0.017		
13957	156	157	0.019		
13958	157	158	0.029	0.028	
13959	158	159	0.075		
13960	159	160	0.016		
13961	160	161	0.720	0.660	159.70 - 163.80m BRECCIATED ALBITE-QUARTZ-SERICITE SCHIST Strongly fractured reddish rock of cherty appearance. Albite altered quartz-sericite schist. In places brecciated. Fractures filled by quartz + pyrite + arsenopyrite. Approx 5% sulphides in interval. Arsenopyrite occurs SO parallel quartz veins and fractures, pyrite occurs dominantly in crosscutting fractures and quartz veining which post date SO// veining and fractures. Fracture edges defined by thin (1mm) band of dark mineral, possibly tourmaline. Cross cuts quartz veining. Paragentic sequence. Broad albite alteration. Quartz + arsenopyrite sub parallel SO. Pyrite + chalcopyrite.
13962	161	162	0.550	0.530	
13963	162	163	0.056		
13964	163	164	0.048		
13965	164	165	0.015		163.80 - 167.40m ALTERED META-ARKOSE Fine to medium grained lithic arkose. Carbonaceous 163.80 - 164.30m. Pinkish albite alteration and finely fractured 164.3 - 167.4m. Minor pyrite associated with fracturing.
13966	165	166	0.024		
13967	166	167	0.001		
13968	167	168	0.061	0.050	167.40 - 168.70m CARBONACEOUS FAULT BRECCIA Carbonaceous breccia, mildly pyritic and chloritic. Fine quartz vein infill. Some quartz fragments in breccia.
13969	168	169	0.100	0.100	
13970	169	170	-0.001		168.70 - 212.60m META-ARKOSE/QUARTZ MUSCOVITE SCHIST Fine to medium grained lithic arkose. Grey/green, occasional pinkish "blush". Irregular quartz pyrite vein at 177.89m (50mm thick). Occasional interbedded siltstone. Fining direction is downhole. Occasional slickensided surface sub parallel tca. First appearance of pyrrhotite in quartz vein at 200.5m.
13971	170	171	-0.001		
13972	171	172	-0.001		
13973	172	173	-0.001		
13974	173	174	-0.001		
13975	174	175	0.004		
13976	175	176	-0.001		
13977	176	177	0.005		
13978	177	178	0.025		
13979	178	179	0.006		
13980	179	180	0.003		
13981	180	181	0.001		
13982	181	182	0.002		
13983	182	183	0.005		

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
13984	183	184	0.020	
13985	184	185	-0.001	
13986	185	186	-0.001	
13987	186	187	-0.001	
13988	187	188	0.009	
13989	188	189	0.001	-0.001
13990	189	190	-0.001	
13991	190	191	-0.001	
13992	191	192	0.002	
13993	192	193	0.002	
13994	193	194	0.007	
13995	194	195	0.008	
13996	195	196	0.003	
13997	196	197	0.004	
13998	197	198	0.010	0.010
13999	198	199	0.002	
14000	199	200	0.001	
14751	200	201	0.005	
14752	201	202	0.003	
14753	202	203	0.015	
14754	203	204	0.001	
14755	204	205	0.005	
14756	205	206	0.006	
14757	206	207	0.002	
14758	207	208	0.003	
14759	208	209	0.001	
14760	209	210	-0.001	
14761	210	211	-0.001	
14762	211	212	0.002	
14763	212	213	0.007	
14764	213	214	0.002	
14765	214	215	0.004	
14766	215	216	0.011	
14767	216	217	0.001	
14768	217	218	-0.001	-0.001
14769	218	219	0.001	
14770	219	220	-0.001	
14771	220	221	0.003	
14772	221	222	0.007	
14773	222	223	0.009	
14774	223	224	0.010	
14775	224	225	0.006	
14776	225	226	0.031	
14777	226	227	0.008	
14778	227	228	0.003	
14779	228	229	0.004	
14780	229	230	0.037	
14781	230	231	0.017	
14782	231	232	-0.001	
14783	232	233	-0.001	-0.001
14784	233	234	0.001	
14785	234	235	-0.001	
14786	235	236	0.004	
14787	236	237	0.006	
14788	237	238	0.019	
14789	238	239	0.005	
14790	239	240	0.003	
14791	240	241	0.013	
14792	241	242	0.004	
14793	242	243	0.002	
14794	243	244	0.004	
14795	244	245	0.024	
14796	245	246	0.006	
14797	246	247	0.003	
14798	247	248	0.015	

GEOLOGICAL LOG

212.60 - 229.50m INTERBEDDED QUARTZ-MUSCOVITE SCHIST/META-ARKOSE

Dominantly grey/green quartz-muscovite schist with lesser interbeds of fine to medium grained lithic arkose.
Minor dissemination and bands of tourmaline.
Occasional pink, irregular quartz vein sub parallel to SO. Minor pyrite parallel SO.
Spotted siltstone intervals towards base.
Dark green tourmaline "spots" occasionally replaced by pyrite.

229.50 - 236.45m ALTERED PYRRHOTITIC QUARTZ MUSCOVITE SCHIST/PHYLLITE

Pale grey altered phyllite and fine grained meta-arkose.
Disseminated pyrrhotite throughout.
Pale alteration possibly sericite.
Well foliated - approaches schistosity defined by sericite and biotite.
Occasional thin (5 - 10mm) quartz sulphide veins sub parallel to SO.
Vein sulphides - arsenopyrite +/- pyrrhotite (undeformed) disseminated pyrrhotite sheared by foliation.

236.45 - 247.80m QUARTZ-MUSCOVITE SCHIST/META-ARKOSE

Grey/green fine to medium grained meta-arkose fining into quartz-muscovite schist and phyllite.
Facing is downhole.
Albitisation at 244.1 - 244.55m consisting of pink albite alteration and pyrite (3 - 5%).
Quartz-pyrite vein at 244.8m (5cm).
Fine disseminated pyrite throughout interval (1%).
Pyrite sheared along foliation planes.
Occasional thin (1 - 5mm) quartz, pyrite veins sub parallel to SO, more frequent towards bottom of interval.

ANALYTICAL DATA					GEOLOGICAL LOG
Sample NT	from (m)	to (m)	Au ppm	Au ppm	
14799	248	249	0.005		247.80 - 251.00m FRACTURED AND SILICIFIED QUARTZ-MUSCOVITE SCHIST
14800	249	250	0.003		Altered and fractured quartz-muscovite schist and lesser
14801	250	251	0.002	0.002	meta-arkose.
					Fracturing becomes brecciation at 249.50 - 250.05m.
					Pink-red albitisation is pervasive in breccia zone.
					Fine tourmaline is disseminated throughout interval.
					Pyrite is associated with irregular fracturing and quartz veining.
					Arsenopyrite evident 247.8 - 248.1m in fine (1mm) SO parallel fractures.
					Slickensided carbonaceous phyllite bed (5cm) on lower contact.
14802	251	252	0.007		251.00 - 269.90m INTERBEDDED META-ARKOSE/QUARTZ MUSCOVITE SCHIST
14803	252	253	0.006		Grey/green fine to medium grained meta-arkose fining into
14804	253	254	0.012		meta-pelites (quartz muscovite schist/phyllite).
14805	254	255	0.065	0.055	Facing is downhole.
14806	255	256	0.009		Occasional pyrite/pyrrhotite stringer veins sub parallel
14807	256	257	0.012		to SO. Irregular quartz sulphide (pyrite, arsenopyrite
14808	257	258	0.017		pyrrhotite) veins at 263.30m and 264.20m.
14809	258	259	0.028		Trace sphalerite associated with pyrrhotite.
14810	259	260	0.007		
14811	260	261	0.003		
14812	261	262	0.005		
14813	262	263	0.003		
14814	263	264	0.005		
14815	264	265	0.004	0.004	
14816	265	266	0.026		
14817	266	267	0.009		
14818	267	268	0.053		
14819	268	269	0.002		
14820	269	270	0.002	0.002	
14821	270	271	0.025		269.90 - 273.20m PINK ALTERED META-ARKOSE
14822	271	272	0.029		Reddish pink altered rock, possibly albite alteration
14823	272	273	0.008		merges on contacts with grey lithic arkose.
					Tourmaline spots (1 - 2mm) distributed through pink silicification.
					Minor pyrite associated with thin fractures.
					Pyrite, arsenopyrite, pyrrhotite and chalcopyrite and Fe-sphalerite associated with irregular quartz vein sub parallel to SO at 271.90m.
14824	273	274	0.230	0.300	273.20 - 296.90m BANDED QUARTZ BIOTITE SCHIST
14825	274	275	0.013		Dominantly dark grey-green hornfelsed schist with
14826	275	276	0.013		interlaminated black carbonaceous phyllite.
14827	276	277	-0.001		Occasional garnet porphyroblasts occur within biotite
14828	277	278	-0.001		rich layers.
14829	278	279	0.008		
14830	279	280	0.002		
14831	280	281	-0.001		
14832	281	282	0.004		
14833	282	283	-0.001		
14834	283	284	0.024		
14835	284	285	0.017		
14836	285	286	0.014		
14837	286	287	0.016		
14838	287	288	0.005		
14839	288	289	-0.001		
14840	289	290	0.003		
14841	290	291	0.020		
14842	291	292	0.004		
14843	292	293	0.001		
14844	293	294	0.007		
14845	294	295	0.001		
14846	295	296	0.013		
14847	296	297	0.014		
14848	297	298	0.002		296.90 - 299.05m FRACTURED AND VEINED HORNFELSED META-ARKOSE/PHYLLITE
14849	298	299	0.018		Fractured quartz biotite-feldspar, meta-arkose and grey phyllite.
					Fractures filled by thin quartz-adularia-pyrite veining.
					299.05 - 299.45m QUARTZ-PYRITE VEIN
					Blue grey quartz and pyrite zone + minor arsenopyrite.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
14850	299	300	0.010	0.006
14851	300	301	-0.001	
14852	301	302	0.001	
14853	302	303	0.015	

Method:	FA3	FA3
Detection Limit:	0.001	0.001

GEOLOGICAL LOG

299.45 - 303.00m GRAPHITIC QUARTZ-SERICITE PHYLLITE
Occasional thin (1 - 5mm) quartz-pyrite vein sub parallel to SO

EOH 303.00m

Analyses by AMDEL LABORATORIES LIMITED

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
WESTERN AUSTRALIA
DRILL LOG : DDH

NOMINAL COLLAR POSITION
Easting : 744700
Northing : 8483450
Azimuth(Grid) : 265°
Inclination : -70°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : FENTON
PROSPECT :
HOLE No. : FDH 2
DEPTH : 300.0m
DRILL DATE: 19/11/93

Proposed by: RDS
Logged by : RDS
Contractor : Gorey and Cole
Rig : VK600B
Reason for drilling: Test IP/Mag anomaly.
Summary of results :
Comments : 0 - 60.7m RC hammer, 60.7 - 300.0m NQ2 core.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
13801	1	2	-0.001	-0.001
13802	2	3	-0.001	
13803	3	4	-0.001	
13804	4	5	-0.001	
13805	5	6	-0.001	
13806	6	7	-0.001	
13807	7	8	0.001	
13808	8	9	0.001	
13809	9	10	-0.001	
13810	10	11	-0.001	
13811	11	12	-0.001	
13812	12	13	-0.001	
13813	13	14	-0.001	
13814	14	15	-0.001	
13815	15	16	-0.001	
13816	16	17	-0.001	
13817	17	18	-0.001	
13818	18	19	-0.001	
13819	19	20	-0.001	
13820	20	21	-0.001	
13821	21	22	-0.001	
13822	22	23	-0.001	
13823	23	24	-0.001	
13824	24	25	-0.001	
13825	25	26	-0.001	-0.001
13826	26	27	-0.001	
13827	27	28	-0.001	
13828	28	29	-0.001	
13829	29	30	-0.001	
13830	30	31	-0.001	
13831	31	32	-0.001	
13832	32	33	-0.001	
13833	33	34	-0.001	
13834	34	35	-0.001	
13835	35	36	-0.001	
13836	36	37	-0.001	-0.001
13837	37	38	-0.001	
13838	38	39	-0.001	
13839	39	40	-0.001	
13840	40	41	-0.001	
13841	41	42	-0.001	
13842	42	43	-0.001	
13843	43	44	-0.001	
13844	44	45	-0.001	
13845	45	46	-0.001	
13846	46	47	-0.001	
13847	47	48	-0.001	
13848	48	49	-0.001	
13849	49	50	0.002	
13850	50	51	-0.001	
13851	51	52	0.004	0.004
13852	52	53	0.002	
13853	53	54	-0.001	
13854	54	55	-0.001	
13855	55	56	-0.001	
13856	56	57	-0.001	
13857	57	58	-0.001	
13858	58	59	-0.001	
13859	59	60	-0.001	
13860	60	61	-0.001	

GEOLOGICAL LOG Water Cut :

0 - 4m WEATHERED CARBONATE
Pale yellow weathered carbonate.

4 - 14m SILTSTONE
Red-brown siltstone.

14 - 16m ARENITE
Red-brown quartz arenite.

16m BASE OF CAMBRIAN

16 - 23m GRANITE
Weathered biotite granite.

23 - 37m HORNFELS
Dark grey fine grained biotite-feldspar hornfels.

37 - 60m GRANITE
Coarse equigranular biotite granite.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
15001	61	62	-0.001	
15002	62	63	-0.001	
15003	63	64	-0.001	
15004	64	65	-0.001	
15005	65	66	-0.001	
15006	66	67	-0.001	
15007	67	68	0.024	
15008	68	69	-0.001	
15009	69	70	-0.001	
15010	70	71	-0.001	
15011	71	72	-0.001	
15012	72	73	-0.001	
15013	73	74	-0.001	
15014	74	75	-0.001	
15015	75	76	-0.001	
15016	76	77	-0.001	
15017	77	78	-0.001	-0.001
15018	78	79	-0.001	
15019	79	80	0.022	
15020	80	81	-0.001	
15021	81	82	0.001	
15022	82	83	0.003	0.003
15023	83	84	0.009	
15024	84	85	0.001	
15025	85	86	0.024	
15026	86	87	0.002	
15027	87	88	-0.001	
15028	88	89	-0.001	
15029	89	90	-0.001	
15030	90	91	0.008	
15031	91	92	0.008	
15032	92	93	0.017	
15033	93	94	-0.001	
15034	94	95	-0.001	
15035	95	96	-0.001	
15036	96	97	-0.001	-0.001
15037	97	98	-0.001	
15038	98	99	-0.001	
15039	99	100	0.004	0.004
15040	100	101	0.001	
15041	101	102	-0.001	
15042	102	103	-0.001	
15043	103	104	0.012	
15044	104	105	-0.001	
15045	105	106	-0.001	
15046	106	107	-0.001	
15047	107	108	-0.001	
15048	108	109	0.001	
15049	109	110	-0.001	
15050	110	111	-0.001	
15051	111	112	-0.001	
15052	112	113	-0.001	
15053	113	114	-0.001	
15054	114	115	-0.001	
15055	115	116	-0.001	
15056	116	117	-0.001	
15057	117	118	-0.001	
15058	118	119	-0.001	
15059	119	120	-0.001	
15060	120	121	-0.001	
15061	121	122	0.002	
15062	122	123	-0.001	
15063	123	124	-0.001	
15064	124	125	-0.001	
15065	125	126	-0.001	
15066	126	127	-0.001	
15067	127	128	-0.001	
15068	128	129	-0.001	
15069	129	130	-0.001	

GEOLOGICAL LOG

60.70m START OF CORE

60.70 - 69.05m GRANITE
Pinkish red medium to fine grained equigranular granite.
Approx 10% biotite, mildly foliated.

69.05 - 75.70m ALTERED QUARTZ CHLORITE SCHIST
Pinkish red and green chloritic schist with irregular haematite banding.
Occasional irregular haematitic quartz vein.
Occasional SO parallel white quartz vein.

75.70 - 85.30m STRONGLY ALTERED AND VEINED GRAPHITIC SCHIST
Dark green chloritised graphitic schist with abundant fracture filling quartz-haematite veins.
Alteration consists of muscovite and chlorite.

85.30 - 92.80m CHLORITE QUARTZ BRECCIA/SHEAR ZONE
Chlorite quartz rock with strong shear fabric.
Quartz occurs as sheared and brecciated veins and as fine anastomosing "spider" veins.
Minor haematite associated with larger quartz veins (50mm).
Mildly graphitic to 87.0m.
87.0 - 92.80m Altered and heavily sheared granite remnants within an altered graphitic matrix.
Alteration consists of adularia, sericite and chlorite.

92.80 - 123.30m PINK FOLIATED GRANITE
Pinkish red equigranular medium grained granite, moderately foliated.
Biotite is dominant mica.
Quartz-feldspar pegmatite veins at 97.00m (30cm)
97.70m (10cm)
98.20m (5cm)
100.00m (30cm)
100.70m
101.70m (10cm).

123.30 - 132.35m PEGMATITE
Coarse quartz feldspar pegmatite feldspar crystals up to width of core.
Minor muscovite and tourmaline.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
15070	130	131	-0.001	
15071	131	132	-0.001	
15072	132	133	-0.001	
15073	133	134	-0.001	
15074	134	135	-0.001	
15075	135	136	-0.001	
15076	136	137	-0.001	
15077	137	138	-0.001	
15078	138	139	-0.001	
15079	139	140	-0.001	
15080	140	141	-0.001	
15081	141	142	-0.001	
15082	142	143	-0.001	-0.001
15083	143	144	-0.001	
15084	144	145	-0.001	
15085	145	146	-0.001	
15086	146	147	-0.001	
15087	147	148	-0.001	
15088	148	149	-0.001	
15089	149	150	-0.001	-0.001
15090	150	151	-0.001	
15091	151	152	-0.001	
15092	152	153	-0.001	
15093	153	154	-0.001	
15094	154	155	-0.001	
15095	155	156	-0.001	
15096	156	157	-0.001	
15097	157	158	-0.001	
15098	158	159	-0.001	
15099	159	160	-0.001	
15100	160	161	-0.001	
15101	161	162	-0.001	
15102	162	163	-0.001	
15103	163	164	-0.001	
15104	164	165	-0.001	
15105	165	166	-0.001	
15106	166	167	-0.001	-0.001
15107	167	168	-0.001	
15108	168	169	-0.001	
15109	169	170	-0.001	
15110	170	171	-0.001	
15111	171	172	-0.001	
15112	172	173	-0.001	
15113	173	174	-0.001	
15114	174	175	-0.001	
15115	175	176	-0.001	-0.001
15116	176	177	-0.001	
15117	177	178	-0.001	
15118	178	179	-0.001	
15119	179	180	-0.001	
15120	180	181	-0.001	
15121	181	182	-0.001	
15122	182	183	-0.001	
15123	183	184	-0.001	
15124	184	185	-0.001	
15125	185	186	-0.001	
15126	186	187	-0.001	
15127	187	188	-0.001	
15128	188	189	-0.001	
15129	189	190	-0.001	
15130	190	191	-0.001	
15131	191	192	-0.001	
15132	192	193	-0.001	
15133	193	194	-0.001	
15134	194	195	-0.001	

GEOLOGICAL LOG

132.35 - 135.20m FOLIATED GRANITE
Pink foliated equigranular. 5 - 10% biotite.
Trace pyrrhotite disseminated through interval.

135.20 - 172.35m PEGMATITE
Coarse quartz-feldspar pegmatite.
Trace pyrite/chalcopyrite associated with thin fractures.

172.35 - 179.90m CARBONACEOUS PHYLLITIC SILTSTONE
Black carbonaceous and mildly pyritic phyllitic siltstone.
Irregular aggregates of decussate muscovite, possibly after andalusite.
SO approx parallel tca.

179.90 - 183.05m PEGMATITE

183.05 - 185.70m GRAPHITE-QUARTZ-MUSCOVITE SCHIST
Black, graphitic schist with bands of muscovite +/- chlorite.
Pyrite +/- chalcopyrite disseminated throughout.
Abundant "clots" of muscovite after andalusite (5 - 7mm).

185.70 - 189.00m APLITE
Fine grained pink aplite.
Scattered phenocrysts of albite? (2 - 3mm), muscovite and disseminated pyrrhotite.

189.00 - 190.60m PEGMATITE

190.60 - 191.70m PYRITIC GRAPHITE-MUSCOVITE SCHIST
Black graphite-muscovite schist with thin (1 - 2mm) quartz bands and pyrite.
Pyrite occurs in bands associated with quartz layers.

191.70 - 194.95m AMPHIBOLITE
Fine grained sericitised amphibolite.
Biotite partly altered to prenhite.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
15135	195	196	-0.001	
15136	196	197	-0.001	
15137	197	198	-0.001	
15138	198	199	0.001	
15139	199	200	-0.001	
15140	200	201	-0.001	
15141	201	202	-0.001	
15142	202	203	-0.001	
15143	203	204	-0.001	
15144	204	205	-0.001	
15145	205	206	0.002	
15146	206	207	-0.001	
15147	207	208	-0.001	
15148	208	209	-0.001	
15149	209	210	-0.001	
15150	210	211	-0.001	
15151	211	212	-0.001	-0.001
15152	212	213	-0.001	
15153	213	214	-0.001	
15154	214	215	-0.001	
15155	215	216	-0.001	
15156	216	217	-0.001	
15157	217	218	-0.001	
15158	218	219	-0.001	
15159	219	220	-0.001	
15160	220	221	-0.001	
15161	221	222	-0.001	
15162	222	223	-0.001	
15163	223	224	-0.001	
15164	224	225	-0.001	
15165	225	226	-0.001	
15166	226	227	0.001	0.002
15167	227	228	0.001	
15168	228	229	-0.001	
15169	229	230	-0.001	
15170	230	231	-0.001	
15171	231	232	-0.001	
15172	232	233	-0.001	
15173	233	234	-0.001	
15174	234	235	0.001	
15175	235	236	-0.001	-0.001
15176	236	237	-0.001	
15177	237	238	0.001	
15178	238	239	-0.001	
15179	239	240	-0.001	
15180	240	241	0.004	
15181	241	242	-0.001	
15182	242	243	-0.001	
15183	243	244	-0.001	
15184	244	245	-0.001	
15185	245	246	-0.001	
15186	246	247	-0.001	
15187	247	248	-0.001	
15188	248	249	-0.001	
15189	249	250	-0.001	
15190	250	251	0.055	0.070
15191	251	252	-0.001	
15192	252	253	-0.001	
15193	253	254	-0.001	

GEOLOGICAL LOG

194.95 - 198.50m TONALITE PORPHYRY
Pale grey aplitic groundmass.
Plagioclase phenocrysts up to 3mm long commonly associated with muscovite.
Disseminated pyrrhotite occurs throughout, generally associated with chloritised biotite patches (2 - 3mm long).
Strong sericite-prenhite alteration in bottom 1 metre.

198.50 - 200.80m AMPHIBOLITE
Sericitised fine to medium grained amphibolite.
Quartz pyrite, pyrrhotite vein at 200.5 - 200.8m.

200.80 - 204.00m ALTERED TONALITE
Equigranular quartz (30 - 35%) feldspar tonalite.
Feldspar altered to sericite-prenhite.

204.00 - 204.20m PEGMATITE

204.20 - 206.00m AMPHIBOLITE

206.00 - 207.60m GRAPHITIC QUARTZO-FELDSPATHIC META SEDIMENT
Dark grey weakly banded rock.
Quartz-feldspar mosaic with thin (1 - 3mm) bands of quartz-sericite and pyrite defining foliation.
Pyrrhotite & pyrite disseminated finely throughouttrock
Possibly metamorphosed graphitic siltstone/arkose.

207.60 - 209.50m BIOTITE TONALITE?

209.50 - 211.95m GRAPHITIC QUARTZ-MUSCOVITE SCHIST
Pyrite occurs as thin (1 - 3mm) layer parallel bands/ veins.
Muscovite aggregates (up to 5mm) possibly after andalusite.

211.95 - 214.10m LEUCOGRANITE
Muscovite and chlorite altered biotite.
Minor disseminated pyrrhotite.

214.10 - 219.50m GRAPHITIC QUARTZ-MUSCOVITE SCHIST
Scattered muscovite altered andalusite aggregates (up to 7mm).

219.50 - 228.00m PORPHYRITIC MICRO-MONZOGRANITE
Fine grained pink rock with phenocyrsts of albite? (2mm) and patches of muscovite.
Staining indicates equal proportions of plagioclase and alkali feldspar.
Minor pyrrhotite disseminated throughout.
A weak banding is noticeable.

228.00 - 231.00m GRAPHITIC QUARTZ MUSCOVITE SCHIST

231.00 - 236.40m PORPHYRITIC MICRO-MONZOGRANITE
Similar o 219.50 - 228.00m interval.

236.40 - 242.10m PEGMATITE

242.10 - 246.30m PORPHYRITIC MICRO-MONZOGRANITE
Pegmatite bands at 244.3 - 244.6m and 245.5 - 245.6m.

246.30 - 258.10m GRAPHITIC QUARTZ-MUSCOVITE SCHIST
Scattered muscovite aggregates (up to 5mm) after andalusite.
Minor disseminated pyrite throughout.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
15194	254	255	-0.001	
15195	255	256	-0.001	
15196	256	257	-0.001	-0.001
15197	257	258	-0.001	
15198	258	259	-0.001	
15199	259	260	-0.001	
15200	260	261	-0.001	
15201	261	262	-0.001	
15202	262	263	-0.001	
15203	263	264	-0.001	
15204	264	265	-0.001	
15205	265	266	-0.001	
15206	266	267	-0.001	
15207	267	268	-0.001	
15208	268	269	-0.001	
15209	269	270	-0.001	
15210	270	271	-0.001	-0.001
15211	271	272	-0.001	
15212	272	273	-0.001	
15213	273	274	-0.001	
15214	274	275	-0.001	-0.001
15215	275	276	-0.001	
15216	276	277	-0.001	
15217	277	278	-0.001	
15218	278	279	-0.001	
15219	279	280	-0.001	-0.001
15220	280	281	-0.001	
15221	281	282	-0.001	
15222	282	283	-0.001	
15223	283	284	-0.001	
15224	284	285	-0.001	
15225	285	286	-0.001	
15226	286	287	-0.001	
15227	287	288	0.002	
15228	288	289	0.003	
15229	289	290	-0.001	
15230	290	291	0.003	
15231	291	292	0.001	
15232	292	293	0.002	
15233	293	294	0.001	
15234	294	295	0.002	
15235	295	296	-0.001	
15236	296	297	-0.001	
15237	297	298	-0.001	
15238	298	299	-0.001	
15239	299	300	-0.001	

Method: FA3 FA3
Detection Limit: 0.001 0.001

GEOLOGICAL LOG

258.10 - 262.90m PEGMATITE

262.90 - 277.30m GRAPHITIC QUARTZ MUSCOVITE SCHIST
Abundant muscovite occurring as foliation parallel bands and as scattered aggregates after andalusite (post tectonic?).
Minor pyrite + chalcopyrite + pyrrhotite disseminated throughout. Pyrite and chalcopyrite in thin quartz veins parallel to foliation.

277.30 - 283.90m PORPHYRITIC MICRO-MONZOGRANITE
Pale pink very fine grained rock.
Phenocrysts up to 2 - 3mm alkali feldspar.
Scattered dicussate muscovite.
Minor disseminated lenses of pyrite.
Rock is moderately foliated.
Pegmatite at 279.0 - 283.0m.

283.90 - 300.00m QUARTZ-FELDSPAR-MUSCOVITE SCHIST
Strongly graphitic in top 2 metres of interval.
Pyrite and pyrrhotite +/- sphalerite occur as thin bands (1 - 2mm) parallel to S1 and as irregular aggregates up to 50mm. Muscovite decreases towards base.
Chloritised biotite becomes more abundant towards base.
Pyrrhotite occurs in thin bands parallel to foliation and associated with biotite-rich layers.
Quartz becomes dominant towards base.
Pegmatite at 291.0 - 291.5m,
Pegmatite at 293.5 - 294.2m.
Interval possibly represents metamorphosed carbonaceous siltstone/arkose sequence.

EOH 300.0m

Analyses by AMDEL LABORATORIES LIMITED

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : DDH

NOMINAL COLLAR POSITION
Easting : 744900
Northing : 8483000
Azimuth(Grid) : 45°
Inclination : -70°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : PINE CREEK GOLD
PROSPECT : FENTON
HOLE No. : FDH 3
DEPTH : 207.8m
DRILL DATE: 18/10/94

Proposed by: TGH
Logged by : AMH
Contractor : Gorey & Cole
Rig : Warman 1000
Reason for drilling: Magnetic, IP and resistivity anomaly.
Summary of results : Chargeability due to graphite in meta sediments. Magnetic anomaly too deep, but pyrite - marcasite after pyrrhotite present in graphitic schists.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppb	Pb ppm
22897	0	2	-1	
22898	2	4	-1	
22899	4	6	-1	
22900	6	8	-1	
22901	8	10	-1	
22902	10	12	-1	
22903	12	14	-1	
22904	14	16	-1	
22905	16	18	-1	
22906	18	20	-1	
22907	20	22	-1	
22908	22	24	-1	
22909	24	26	-1	
22910	26	28	-1	
22911	28	30	-1	
22912	30	32	-1	
22913	32	34	-1	
22914	34	36	-1	
22915	36	38	-1	
22916	38	40	-1	
22917	40	42	-1	
22918	42	44	-1	
22919	44	46	-1	
22920	46	48	-1	
22921	48	50	21	
22922	50	52	7	
22923	52	54	-1	
22924	54	56	-1	
22925	56	58	-1	
22926	58	60	-1	
22927	60	62	-1	
22928	62	64	-1	
22929	64	66	-1	
22930	66	68	-1	
22931	68	70	-1	
22932	70	72	12	
22933	72	74	-1	

GEOLOGICAL LOG Water Cut :

SUMMARY LOG

0 - 16m	Grey and pink limestone.
16 - 43m	Brown calcareous mudstone.
43 - 48m	Sand and silt (base of Cambrian).
48 - 60m	Dark green/grey siliceous meta siltstone, minor haematite alteration.
60 - 63m	Granite.
63 - 118m	Dark green chloritic siliceous meta siltstone. Haematite alteration 103 - 108m. Minor quartz veining 114 - 118m.
118 - 130m	Black siliceous meta siltstone. Minor quartz veining, disseminated pyrite.
130 - 135m	Micromonzonite dyke.
135 - 176m	Meta siltstone - grey quartzofeldspathic schist. Rare quartz veins, pegmatitic veins, disseminated pyrite.
176 - 203m	Graphitic schist, common pyrite.
203 - 207.8m	Aplite and pegmatite.

0 - 2m	Grey and pink limestone.
2 - 4m	As above.
4 - 6m	As above.
6 - 8m	As above.
8 - 10m	As above.
10 - 12m	Pink dolomitic siltstone.
12 - 14m	Grey and pink limestone.
14 - 16m	As above.
16 - 18m	Red-brown calcareous mudstone.
18 - 20m	As above.
20 - 22m	As above.
22 - 24m	Brown calcareous mudstone.
24 - 26m	As above.
26 - 28m	As above.
28 - 30m	As above.
30 - 32m	As above.
32 - 34m	Brown calcareous mudstone, minor grey limestone.
34 - 36m	Brown calcareous mudstone.
36 - 38m	As above.
38 - 40m	As above.
40 - 42m	As above.
42 - 44m	Brown calcareous mudstone, yellow poorly cemented sandstone.
44 - 46m	Yellow fine to medium sand (weakly cemented sandstone).
46 - 48m	Brown silt.
48 - 50m	Meta siltstone - fine grained dark green quartz-feldspar-biotite/chlorite.
50 - 52m	As above.
52 - 54m	Meta siltstone and quartzite, rare sericite, dark green in colour.
54 - 56m	As above, but commonly red and haematitic.
56 - 58m	As above, chlorite coating fracture surfaces.
58 - 60m	Dark green grey meta-siltstone, quartzite, medium grained pink quartz-feldspar (dyke?).
60 - 62m	Granite, pale pink medium grained quartz-feldspar-plagioclase, minor muscovite and biotite.
62 - 64m	Dark green to reddish meta siltstone/quartzite, pink granite.
64 - 66m	Dark green chloritic siliceous meta siltstone, some red haematitic meta siltstone.
66 - 68m	As above, some quartz muscovite haematite schist.
68 - 70m	As above, rare quartz veining.
70 - 72m	As above, some coarse muscovite (pegmatite).
72 - 74m	As above.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppb	Pb ppm
22934	74	76	14	
22935	76	78	13	
22936	78	80	8	
22937	80	82	-1	
22938	82	84	-1	
22939	84	86	22	
22940	86	88	7	
22941	88	90	5	
22942	90	92	6	
22943	92	94	-1	
22944	94	96	8	
22945	96	98	20	
22946	98	100	32	
22947	100	102	13	
22948	102	104	19	90
22949	104	106	11	28
22950	106	108	2	17
22951	108	110	3	30
22952	110	112	1	16
22953	112	114	4	11
22954	114	116	4	47
22955	116	118	2	37
22956	118	120	2	38
22957	120	122	1	17
22958	122	124	2	45
22959	124	126	2	27
22960	126	128	2	13
22961	128	130	7	30
22962	130	132	19	29
22963	132	134	29	56
24982	134.9	136	12	110
24983	136	137	3	21
24984	137	138	1	6
24985	138	139	2	10
24986	139	140	1	5
24987	140	141	-1	7
24988	141	142	2	19
24989	142	143	2	33
24990	143	144	3	12
24991	144	145	-1	14
24992	145	146	1	54
24993	146	147	-1	110
24994	147	148	-1	110
24995	148	149	-1	95
24996	149	150	-1	55
24997	150	151	-1	47
24998	151	152	-1	27
24999	152	153	1	18
25000	153	154	2	16
25001	154	155	1	14
25002	155	156	2	115
25003	156	157	1	56
25004	157	158	1	18
25005	158	159	1	11
25006	159	160	-1	8
25007	160	161	1	6
25008	161	162	1	7
25009	162	163	4	32
25010	163	164	7	35
25011	164	165	2	110
25012	165	166	2	6

GEOLOGICAL LOG

74 - 76m Green grey siliceous meta siltstone. Chlorite on fracture surfaces.

76 - 78m As above, but pinkish colouration.

78 - 80m Green to pink very siliceous meta siltstone/fine sandstone, trace pyrite.

80 - 82m As above.

82 - 84m As above, slightly finer grained, minor quartz-muscovite schist.

84 - 86m Dark green grey chloritic siliceous meta siltstone, rare disseminated pyrite, trace fluorite.

86 - 88m Fine grained pink and grey quartz - feldspar ± muscovite schist.

88 - 90m Dark green siliceous chloritic meta siltstone.

90 - 92m As above.

92 - 94m As above.

94 - 96m As above.

96 - 98m As above, trace pyrite, some pink colouration.

98 - 100m As above, some pink colouration.

100 - 102m Grey very siliceous meta siltstone/fine quartz arenite.

102 - 104m As above, some pink colouration, chloritic fracture surfaces.

104 - 106m As above, more pronounced haematite alteration, rare pyrite.

106 - 108m As above.

108 - 110m Dark green chloritic siliceous meta siltstone.

110 - 112m As above.

112 - 114m As above, some pink colouration.

114 - 116m As above, rare quartz haematite veining (pink).

116 - 118m Dark green-grey siliceous meta siltstone, rare quartz-pyrite veining.

118 - 120m Black siliceous meta siltstone (quartz-biotite/chlorite), 5% quartz-sericite vein, disseminated pyrite rare.

120 - 122m As above, 1% quartz sericite vein, disseminated pyrite rare.

122 - 124m As above, 1% quartz vein, cm fine disseminated pyrite.

124 - 126m As above, rare quartz vein, rare disseminated pyrite.

126 - 128m As above, rare disseminated pyrite.

128 - 130m Black quartz-biotite schist (meta siltstone), rare quartz-sericite vein, rare disseminated pyrite.

130 - 132m Pale grey micromonzonite, minor quartz-biotite/chlorite meta siltstone, rare disseminated pyrite.

132 - 134m Pale grey micromonzonite, rare disseminated pyrite.
(END OF PRECOLLAR)

134.9-135.35m Micromonzonite dyke.
Pale grey, foliated fine mosaic of quartz and white feldspar crystals. Minor muscovite, chlorite, pyrite and porphyroblasts of pinkish feldspar?
Chlorite lined fractures at 50° to core axis.

135.35-166.9m Meta siltstone.
(Thin section 23707 at 136.5m).
Grey quartz-feldspar-muscovite/biotite/sericite schists.
Strong bedding parallel foliation, at about 30° to core axis. Core orientation at 141m indicates bedding dipping at 75° to 205° bearing.
Thin (<1cm) quartz-feldspar/sericite ± pyrite, biotite, tourmaline veins also bedding parallel.
Coarser grained quartz-feldspar/sericite-muscovite pegmatite dykes at 144.15 - 144.5m, 144.9 - 145.1m, and between 154.7 - 157.4m.
Coarser angular quartz-sericite-fluorite infilled breccia at 142 - 142.8m.
Some chloritic bedding plane fractures.
Rare disseminated pyrite throughout, with more common pyrite laminae 152 - 154m.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppb	Pb ppm
25013	166	167	-1	9
25014	167	168	-1	95
25015	168	169	2	44
25016	169	170	1	14
25017	170	171	2	86
25018	171	172	2	32
25019	172	173	2	62
25020	173	174	-1	45
25021	174	175	2	43
25022	175	176	14	125
25023	176	177	-1	210
25024	177	178	-1	70
25025	178	179	-1	41
25026	179	180	-1	63
25027	180	181	-1	21
25028	181	182	6	79
25029	182	183	4	56
25030	183	184	2	600
25031	184	185	2	150
25032	185	186	2	30
25033	186	187	-1	39
25034	187	188	-1	185
25035	188	189	-1	115
25036	189	190	-1	76
25037	190	191	-1	125
25038	191	192	-1	145
25039	192	193	-1	195
25040	193	194	-1	170
25041	194	195	-1	320
25042	195	196	-1	180
25043	196	197	-1	72
25044	197	198	-1	86
25045	198	199	-1	82
25046	199	200	-1	71
25047	200	201	-1	99
25048	201	202	-1	220
25049	202	203	-1	130
25050	203	204	-1	42
25051	204	205	-1	39
25052	205	206	-1	14
25053	206	207	-1	15
25054	207	207.8	-1	14

DUPLICATES

22964	38	40	-1	-4
22965	58	60	-1	4
22966	78	80	8	4
22967	98	100	23	98
22968	118	120	1	44

Method:	FA3	AA1
Detection Limit:	1	4

GEOLOGICAL LOG

166.9 - 168.2m Monzonite Dyke.
Pale grey/pink medium grained granitic dyke.
Moderate foliation, minor disseminated pyrite.

168.2 - 176m Meta siltstone.
Grey, fine to medium grained, schistose.
Rare quartz veins parallel to bedding/schistosity.
Common disseminated pyrite, especially 174 - 176m where it is concentrated in laminae.
>10% pyrite 175.6 - 175.85m.
Trace chalcopyrite 172.8m.

176 - 203.3m Speckled graphitic schist.
(Thin section 23708 at 201.9m).
White feldspar/sericitised feldspar laths and bands in a fine grained quartz-feldspar/sericite-graphite groundmass.
Graphite becomes coarser grained and more abundant down towards the granite contact.
Some graphitic shears e.g. 182m, with minor associated brecciation, and 193.4m.
Pyrite is common, disseminated throughout and concentrated in bands parallel to foliation.
A sericitic shear at 187.6m has minor galena, pyrite, chalcopyrite, barite?
Minor thin quartz veining (<1cm thick) roughly parallel to the core axis between 182.5 - 185m.
188.5 - 188.85m pegmatite vein.

203.3-207.8m Granite.
EOH Pale grey to pink fine grained aplite, with coarse quartz-K feldspar-muscovite-minor pyrite pegmatite vein 207.2 - 207.55m.

Analyses by AMDEL LABORATORIES LIMITED

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : DDH

NOMINAL COLLAR POSITION		
Easting	:	742025
Northing	:	8484000
Azimuth(Grid)	:	90°
Inclination	:	-70°
Reduced Level	:	

SURVEYED COLLAR POSITION	
Easting	:
Northing	:
Azimuth(grid)	:
Inclination	:
Reduced Level	:
Surveyed by	:

PROJECT : PINE CREEK GOLD
PROSPECT : FENTON
HOLE No. : FDH 4
DEPTH : 194.8m
DRILL DATE: 26/10/94

Proposed by: TGH
Logged by : AMH
Contractor : Gorey & Cole Rig : Warman 1000
Reason for drilling: IP chargeability and resistivity anomaly.
Summary of results : Resistivity anomaly explained by quartz vein 70 - 74m. Chargeability anomaly not explained.
Comments :

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppb	Pb ppm
23157	0	2	2	87
23158	2	4	2	46
23159	4	6	-1	26
23160	6	8	-1	22
23161	8	10	-1	4
23162	10	12	-1	21
23163	12	14	-1	12
23164	14	16	-1	12
23165	16	18	-1	6
23166	18	20	-1	16
23167	20	22	-1	8
23168	22	24	-1	16
23169	24	26	-1	4
23170	26	28	-1	11
23171	28	30	-1	9
23172	30	32	-1	4
23173	32	34	-1	4
23174	34	36	-1	4
23175	36	38	-1	4
23176	38	40	-1	4
23177	40	42	-1	4
23178	42	44	-1	16
23179	44	46	-1	4
23180	46	48	-1	4
23181	48	50	-1	4
23182	50	52	-1	4
23183	52	54	-1	4
23184	54	56	-1	4
23185	56	58	-1	4
23186	58	60	-1	4
23187	60	62	2	4
23188	62	64	-1	4
23189	64	66	-1	4
23190	66	68	2	4
23191	68	70	-1	4
23192	70	72	18	4
23193	72	74	15	4
23194	74	76	27	6
23195	76	78	11	7
23196	78	80	28	6
23197	80	82	9	8
23198	82	84	15	6
23199	84	86	9	6
23200	86	88	8	7
23201	88	90	10	4
23202	90	92	-1	4

GEOLOGICAL LOG Water Cut :

SUMMARY LOG

0 - 2m	Red clay.
2 - 30m	Grey limestone and siltstone.
30 - 62m	Brown calcareous mudstone (base of Cambrian).
62 - 70m	Haematitic meta-conglomerate.
70 - 74m	Quartz + haematite vein.
74 - 152m	Meta-conglomerate / sedimentary breccia.
152 - 166m	Meta-greywacke.
166 - 190.8m	Meta-conglomerate / sedimentary breccia.

0 - 2m	Red clay.
2 - 4m	Grey limestone.
4 - 6m	As above.
6 - 8m	Grey limestone, rare calcite veining.
8 - 10m	Grey limestone, some yellow oxidised limestone.
10 - 12m	As above.
12 - 14m	As above.
14 - 16m	Grey limestone, some yellow oxidised limestone, large cavity.
16 - 18m	Pink limestone, silty, calcite veining.
18 - 20m	As above.
20 - 22m	As above.
22 - 24m	Yellow calcareous siltsotne.
24 - 26m	Grey and black calcareous siltstone.
26 - 28m	Grey limestone.
28 - 30m	As above.
30 - 32m	Brown calcareous mudstone.
32 - 34m	As above.
34 - 36m	As above.
36 - 38m	As above.
38 - 40m	Brown calcareous mudstone, minor grey limestone.
40 - 42m	As above.
42 - 44m	As above.
44 - 46m	As above.
46 - 48m	As above.
48 - 50m	As above.
50 - 52m	As above.
52 - 54m	As above.
54 - 56m	As above.
56 - 58m	As above.
58 - 60m	Brown calcareous mudstone.
60 - 62m	Brown calcareous mudstone (base of Cambrian).
62 - 64m	Grey volcaniclastic conglomerate with stretched quartz and feldspar clasts.
64 - 66m	As above.
66 - 68m	As above.
68 - 70m	As above, common bright red haematitic alteration.
70 - 72m	≈ 70% milky quartz, 30% haematitic clayey conglomerate.
72 - 74m	30% milky quartz, 70% haematitic clayey conglomerate.
74 - 76m	Green-grey volcaniclastic meta-conglomerate.
76 - 78m	As above.
78 - 80m	As above, some haematitic alteration.
80 - 82m	As above, some haematitic alteration.
82 - 84m	As above, some haematitic alteration.
84 - 86m	As above, some haematitic alteration.
86 - 88m	Grey meta-siltstone/meta greywacke.
88 - 90m	As above, some meta-conglomerate with red haematitic alteration.
90 - 92m	As above, some dark grey siliceous meta-siltstone, trace pyrite.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppb	Pb ppm
23203	92	94	1	4
23204	94	96	4	4
23205	96	98	3	4
23206	98	100	1	4
23207	100	102	3	6
23208	102	104	9	7
23209	104	106	40	6
23210	106	108	2	6
23211	108	110	3	6
23212	110	112	1	7
23213	112	114	1	7
23214	114	116	6	6
23215	116	118	4	6
23216	118	120	7	4
23217	120	122	5	4
23218	122	124	3	4
23219	124	126	-1	7
23220	126	128	4	4
23221	128	130	1	4
23222	130	132	1	4
25055	131.8	133	-1	11
25056	133	134	-1	25
25057	134	135	10	15
25058	135	136	-1	39
25059	136	137	-1	24
25060	137	138	-1	8
25061	138	139	-1	5
25062	139	140	-1	8
25063	140	141	-1	6
25064	141	142	22	6
25065	142	143	4	5
25066	143	144	7	9
25067	144	145	11	47
25068	145	146	-1	8
25069	146	147	14	6
25070	147	148	-1	16
25071	148	149	-1	5
25072	149	150	-1	4
25073	150	151	14	8
25074	151	152	111	7
25075	152	153	-1	6
25076	153	154	-1	6
25077	154	155	-1	5
25078	155	156	-1	4
25079	156	157	-1	4
25080	157	158	-1	6
25081	158	159	-1	4
25082	159	160	25	6
25083	160	161	-1	5
25084	161	162	-1	4
25085	162	163	-1	4
25086	163	164	-1	8
25087	164	165	-1	7
25088	165	166	-1	6
25089	166	167	11	4
25090	167	168	-1	32
25091	168	169	-1	65
25092	169	170	-1	15
25093	170	171	-1	18
25094	171	172	-1	9
25095	172	173	-1	18
25096	173	174	-1	15
25097	174	175	-1	13
25098	175	176	-1	46
25099	176	177	-1	25
25100	177	178	-1	34

GEOLOGICAL LOG

92 - 94m Fine grained dark grey meta-siltstone.

94 - 96m Grey meta-greywacke and meta-conglomerate.

96 - 98m Grey meta-greywacke, rare quartz.

98 - 100m Grey meta-greywacke, rare quartz.

100 - 102m Grey meta-greywacke, meta-conglomerate (volcaniclastic quartz - feldspar?).

102 - 104m Grey and pink volcaniclastic meta-conglomerate, stretched quartz.

104 - 106m As above, minor sericite and haematite alteration.

106 - 108m As above.

108 - 110m As above.

110 - 112m As above, some meta-greywacke.

112 - 114m As above, some meta-siltstone.

114 - 116m As above.

116 - 118m Grey volcaniclastic meta-conglomerate.

118 - 120m As above, some haematite, sericite + pyrite alteration.

120 - 122m As above.

122 - 124m As above.

124 - 126m Grey and pink volcaniclastic meta-conglomerate, rare pyrit

126 - 128m As above, minor disseminated pyrite, haematite-pyrite-chlorite veining.

128 - 130m As above.

130 - 132m As above. End precollar.

131.8 - 152.5m Meta-conglomerate.
(Thin section no 23706 at 133.2m).
Very stretched and recrystallised quartz pebbles in a finer grained altered quartz-haematite-sericite-chlorite foliated matrix.
Rare disseminated pyrite.
Fairly common open and healed chlorite ± sericite, quartz, pyrite, haematite fractures, commonly 30° to 50° to core axis.
Core orientation 141m gives bedding dipping at 75° to bearing 252°.
143.7 - 144.25m Meta-greywacke.
Finer grained with 1 - 2mm quartz + feldspar clasts.
Upper contact with conglomerate appears roughly parallel to the schistosity.
The lower contact is brecciated with carbonate veining and graphite.
145.8 - 157m Meta-siltstone interbedded with conglomerate parallel to schistosity.
Abundant graphitic fractures, some brecciation withcalcite veining and graphite.

152.5 - 166.2m Grey meta-greywacke.
Common 1 - 2mm quartz and feldspar clasts, weak foliation.
Minor pink haematite alteration.
Common fracturing (every 5 - 10cm), open and healed, commonly 60° to core axis, ± chlorite, sericite, pyrite.
159.3 - 159.5m. More intense alteration + veining with vein quartz and carbonate, purple fluorite sometimes associated with calcite in thin veins, sericite, pyrite, some chlorite, rare haematite.

166.2 - 194.8m EOH Meta-conglomerate.
Stretched recrystallised quartz pebbles commonly 0.5 to 1cm long. Sericite, haematite, chlorite alteration.
Rare disseminated pyrite.
Fairly common chlorite + sericite + pyrite healed fractures, e.g. 166.23m at 85° to core axis, with schistosity/bedding at 30° to core axis.
166.4 - 167.45m Fault zone.
Intensely fractured to brecciated zone.
Minor graphite on fracture surfaces. Some quartz veining 166.8 - 166.9m.
Minor disseminated pyrite.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppb	Pb ppm
25101	178	179	-1	7
25102	179	180	12	25
25103	180	181	9	40
25104	181	182	-1	29
25105	182	183	2	61
25106	183	184	-1	31
25107	184	185	-1	18
25108	185	186	-1	12
25109	186	187	-1	10
25110	187	188	3	28
25111	188	189	-1	32
25112	189	190	-1	19
25113	190	191	-1	16
25114	191	192	-1	10
25115	192	193	-1	8
25116	193	194	-1	6
25117	194	194.8	-1	18

DUPLICATES

23223	18	20	-1	4
23224	38	40	-1	4
23225	58	60	-1	6
23226	78	80	44	8
23227	98	100	1	6
23228	118	120	6	7

Method:	FA3	AA1
Detection Limit:	1	4

GEOLOGICAL LOG

Core orientation 173.4m - bedding/ schistosity (contact between coarser and finer grained units) 20° to core axis. B = 330°, which gives a dip of 85° in a direction 246° magnetic.
Bedding to core axis varies between 30° to 10° down hole.

At 171.5m — Bedding dips at 58° to bearing 094°, suggesting isoclinal folding about N-S trending fold axes.

173.55 - 174.63m — Grey meta-greywacke/meta-siltstone, with common chloritic fractures.

175.4 - 175.7m — More intense metamorphic foliation with very elongated quartz lenses and some coarse pale green speckling - possibly sericitisation after hornfels?

190.8m — 2cm thick quartz + sericite vein at approximately 90° to bedding/schistostiy.

Analyses by AMDEL LABORATORIES LIMITED

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : DDH

NOMINAL COLLAR POSITION
Easting : 741900
Northing : 8485500
Azimuth(Grid) : 270°
Inclination : -70°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : PINE CREEK GOLD
PROSPECT : FENTON
HOLE No. : FDH 5
DEPTH : 279.8m
DRILL DATE: 05/11/94

Proposed by: TGH
Logged by : AMH
Contractor : Gorey & Cole
Rig : Vickers Keogh
Reason for drilling: IP chargeability anomaly.
Summary of results :
Comments : Pyrite in shear zone may contribute to chargeability - Anomaly not fully explained. Water cut 50m.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppb	Pb ppm
21670	0	2	4	90
21671	2	4	2	105
21672	4	6	-1	38
21673	6	8	-1	17
21674	8	10	1	8
21675	10	12	-1	4
21676	12	14	-1	31
21677	14	16	-1	13
21678	16	18	1	20
21679	18	20	1	36
21680	20	22	-1	10
21681	22	24	-1	9
21682	24	26	-1	15
21683	26	28	-1	5
21684	28	30	-1	8
21685	30	32	-1	10
21686	32	34	-1	6
21687	34	36	-1	-4
21688	36	38	-1	6
21689	38	40	-1	6
21690	40	42	-1	4
21691	42	44	-1	6
21692	44	46	-1	6
21693	46	48	-1	5
21694	48	50	1	6
21695	50	52	2	10
21696	52	54	8	-4
21697	54	56	20	7
21698	56	58	12	6
21699	58	60	6	4
21700	60	62	1	-4
21701	62	64	-1	-4
21702	64	66	7	4
21703	66	68	4	4
21704	68	70	1	-4
21705	70	72	3	-4
21706	72	74	-1	10
21707	74	76	1	6
21708	76	78	1	5
21709	78	80	4	8
21710	80	82	15	6
21711	82	84	71	5
21712	84	86	15	11

GEOLOGICAL LOG Water Cut :

SUMMARY LOG

0 - 4m	Red clay.
4 - 20m	Weathered limestone.
20 - 52m	Brown calcareous mudstone.
52 - 58m	Arenite, haematitic at base (base of Cambrian).
58 - 88m	Pinkish haematitic and chloritic meta-greywacke.
88 - 241	Fine to coarse meta-greywacke, siltstone.
241 - 279.8m	Sheared meta-conglomerate, chloritic, quartz veining + pyrite.

0 - 2m	Red clay.
2 - 4m	As above.
4 - 6m	Grey and tan limestone.
6 - 8m	As above.
8 - 10m	As above.
10 - 12m	As above.
12 - 14m	As above.
14 - 16m	As above.
16 - 18m	As above.
18 - 20m	Tan clay.
20 - 22m	Red-brown calcareous mudstone.
22 - 24m	As above.
24 - 26m	As above.
26 - 28m	As above.
28 - 30m	As above.
30 - 32m	As above.
32 - 34m	As above.
34 - 36m	As above.
36 - 38m	As above.
38 - 40m	As above.
40 - 42m	As above.
42 - 44m	As above.
44 - 46m	As above.
46 - 48m	As above.
48 - 50m	As above.
50 - 52m	As above.
52 - 54m	Brown arenite.
54 - 56m	Brown arenite, some quartz (pebbles?).
56 - 58m	Red haematitic arenite, rare quartz (base of Cambrian).
58 - 60m	Dark brown quartz-muscovite-haematite schist (meta-siltstone), chloritic fractures.
60 - 62m	Pink ferruginous meta-greywacke - quartz (to 1mm), muscovite, chlorite.
62 - 64m	As above.
64 - 66m	As above, haematitic and chloritic.
66 - 68m	As above, haematitic and chloritic.
68 - 70m	As above, haematitic and chloritic.
70 - 72m	As above, haematitic and chloritic.
72 - 74m	As above, haematitic and chloritic.
74 - 76m	As above, haematitic and chloritic, slightly finer grained, rare quartz veining.
76 - 78m	As above, haematitic and chloritic, some meta-siltstone and meta-pelite.
78 - 80m	Green & pink meta-siltstone - quartz, sericite ± haematite, chlorite. Some chloritic schist.
80 - 82m	Haematitic meta-siltstone.
82 - 84m	As above.
84 - 86m	Red haematitic meta-siltstone, some sericite-pyrite veining and alteration.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppb	Pb ppm
21713	86	88	49	9
21714	88	90	4	5
21715	90	92	5	12
21716	92	94	9	11
21717	94	96	59	4
21718	96	98	6	8
21719	98	100	3	6
21720	100	102	5	6
21721	102	104	5	7
21722	104	106	2	4
21723	106	107.7	4	7
23910	107.7	109	-1	-4
23911	109	110	5	-4
23912	110	111	1	5
23913	111	112	-1	-4
23914	112	113	-1	-4
23915	113	114	-1	-4
23916	114	115	-1	-4
23917	115	116	-1	-4
23918	116	117	-1	-4
23919	117	118	-1	-4
23920	118	119	-1	-4
23921	119	120	-1	-4
23922	120	121	4	-4
23923	121	122	-1	-4
23924	122	123	-1	-4
23925	123	124	-1	-4
23926	124	125	-1	-4
23927	125	126	-1	-4
23928	126	127	8	-4
23929	127	128	-1	-4
23930	128	129	-1	-4
23931	129	130	-1	-4
23932	130	131	16	-4
23933	131	132	-1	-4
23934	132	133	9	-4
23935	133	134	11	4
23936	134	135	-1	4
23937	135	136	13	-4
23938	136	137	6	-4
23939	137	138	4	-4
23940	138	139	-1	-4
23941	139	140	8	-4
23942	140	141	4	-4
23943	141	142	-1	-4
23944	142	143	5	-4
23945	143	144	2	-4
23946	144	145	-1	-4
23947	145	146	-1	-4
23948	146	147	1	-4
23949	147	148	-1	-4
23950	148	149	-1	-4
23951	149	150	-1	-4
23952	150	151	-1	-4
23953	151	152	-1	-4
23954	152	153	-1	-4
23955	153	154	1	-4
23956	154	155	-1	-4
23957	155	156	2	-4
23958	156	157	1	-4
23959	157	158	-1	-4
23960	158	159	4	13
23961	159	160	1	-4
23962	160	161	-1	-4
23963	161	162	-1	-4

GEOLOGICAL LOG

86 - 88m Red haematitic meta-siltstone, rare sericite-pyrite veining and alteration.

88 - 90m Green meta-siltstone, red haematitic altered bands, very rare quartz vein.

90 - 92m Green meta-greywacke, red haematitic altered bands.

92 - 94m Green meta-greywacke, 1mm blue quartz clasts, rare haematite and chlorite alteration.

94 - 96m Green chloritic meta-greywacke, rare quartz haematite and sericite veins.

96 - 98m Green-grey meta-greywacke, chloritic fractures, rare haematite.

98 - 100m As above.

100 - 102m As above.

102 - 104m Green-grey meta-greywacke, chloritic fractures, rare pyrite.

104 - 106m Green-grey chloritic meta-siltstone.

106 - 108m Green-grey meta-greywacke, chloritic fractures, rare pyrite. (END OF PRECOLLAR)

107.7 - 241.3m Fine to coarse grained meta-greywacke, some meta-siltstone interbeds.
(Thin sections 23701 at 109.8m, 23702 at 119.1m, 23730 at 174.6m).
Cyclic fining-up sequences from coarse greywacke with sharp basal contact up through to siltstone at top of cycle.
Cycles 1 - 2m true thickness.
Coarser greywacke commonly has quartz and feldspar/sericite grains up to 1 or 2mm in a finer matrix. Some finer greywacke (e.g. 121 - 123m) has abundant muscovite.
Main siltstone intervals are 112.9 - 113.8m, 116.6 - 117m, 120.6 - 121m, 161.35 - 162.5m, 171.2 - 171.9m,178.2 - 181.7m and 207.25 - 210.2m.

146.2 - 147.1m Coarse greywacke/conglomerate with stretched quartz and feldspar clasts to 1cm, disseminated pyrite.

192 - 195m Metamorphosed alkaline lamprophyre. (Thin section 23704 at 192.2m). Green-grey, fine grained, sericitic, weakly foliated, common 1 - 4mm alkali feldspar phenocrysts and 1 - 2mm black crystal clusters.

Common fracturing throughout, more concentrated in the finer grained units. Fracture surfaces often chloritic, sometimes sericitic and at varying orientations.
More intense fracturing/shearing with chlorite, sericite and minor graphite at 142.8 - 143.15m (also 2cm quartz vein with rare chalcopyrite) and 148.7 - 148.8m.
Shear zone 176.1 - 181.5m. Very chloritic sheared meta-siltstone, minor quartz ± pyrite, fluorite, chlorite veining.
VEINING
Rare thin quartz ± haematite and pyrite veining 108 - 110m (thin section 23701 at 109.8m), 113m, some with narrow orange albite alteration selvages e.g. 120 - 121m, 126m, 138m, 157.5m, 189.3 - 189.4m, 198.9m, 200.9m.
Rare quartz, pyrite + tourmaline veins e.g. 118.5 - 119m, 122.7m, 156.3m.
10cm thick quartz vein at 45° to core axis at 127m, minor pyrite.
133.6m, 143.4m thin (2cm) pale green sericite, orange albite? and minor quartz veins.
155m - Quartz - K-feldspar vein with cross-cutting quartz-fluorite. Also thin fluorite veins 164m, 185.10m.
Pale pink albitic alteration band/vein 159.5 - 159.6m, 165.2 - 165.4m with pyrite + tourmaline.
Quartz-carbonate-fluorite-pyrite-sericite vein approximately parallel to core axis 202 - 202.3m.
Several <4cm quartz-adularia?-pyrite veins in siltstone interval 207.25 - 210.2m.
PYRITE
Rare both disseminated and in veins e.g. 132.9 - 133.25m, 171.7m, 186.5m, larger blebs at 201.9m.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppb	Pb ppm
23964	162	163	-1	-4
23965	163	164	2	4
23966	164	165	1	-4
23967	165	166	3	-4
23968	166	167	3	-4
23969	167	168	2	-4
23970	168	169	-1	-4
23971	169	170	-1	-4
23972	170	171	-1	-4
23973	171	172	-1	-4
23974	172	173	-1	-4
23975	173	174	6	-4
23976	174	175	3	6
23977	175	176	-1	-4
23978	176	177	2	-4
23979	177	178	-1	-4
23980	178	179	-1	-4
23981	179	180	-1	-4
23982	180	181	-1	-4
23983	181	182	-1	-4
23984	182	183	-1	-4
23985	183	184	-1	-4
23986	184	185	-1	-4
23987	185	186	-1	-4
23988	186	187	-1	-4
23989	187	188	7	-4
23990	188	189	12	-4
23991	189	190	12	-4
23992	190	191	-1	-4
23993	191	192	-1	-4
23994	192	193	-1	13
23995	193	194	-1	82
23996	194	195	-1	10
23997	195	196	3	-4
23998	196	197	-1	-4
23999	197	198	-1	5
24000	198	199	-1	6
24901	199	200	13	7
24902	200	201	-1	-4
24903	201	202	9	9
24904	202	203	28	5
24905	203	204	-1	-4
24906	204	205	-1	4
24907	205	206	-1	4
24908	206	207	-1	-4
24909	207	208	-1	-4
24910	208	209	-1	-4
24911	209	210	8	-4
24912	210	211	-1	-4
24913	211	212	-1	-4
24914	212	213	-1	4
24915	213	214	-1	-4
24916	214	215	-1	-4
24917	215	216	-1	4
24918	216	217	5	11
24919	217	218	1	-4
24920	218	219	-1	-4
24921	219	220	10	-4
24922	220	221	-1	-4
24923	221	222	-1	-4
24924	222	223	-1	-4
24925	223	224	-1	-4
24926	224	225	-1	-4
24927	225	226	-1	-4
24928	226	227	-1	-4
24929	227	228	-1	-4
24930	228	229	-1	-4
24931	229	230	-1	-4
24932	230	231	7	5
24933	231	232	-1	-4
24934	232	233	-1	-4
24935	233	234	-1	-4

GEOLOGICAL LOG

STRUCTURE
Core orientations at 154.3m and 235.6m.
Bedding at 153.5m dipping steeply to east (85° to 102°), thought to be constant throughout hole (bedding to core axis changes gradually from 30° to 40°, but hole shallows up from 70° to 61°).
Quartz vein at 157m dips up 87° with dip direction 339°.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppb	Pb ppm
24936	234	235	-1	-4
24937	235	236	-1	-4
24938	236	237	-1	-4
24939	237	238	-1	-4
24940	238	239	-1	-4
24941	239	240	-1	-4
24942	240	241	-1	-4
24943	241	242	5	-4
24944	242	243	-1	-4
24945	243	244	-1	-4
24946	244	245	118	8
24947	245	246	1	-4
24948	246	247	860	10
24949	247	248	36	-4
24950	248	249	9	4
24951	249	250	24	5
24952	250	251	9	-4
24953	251	252	32	-4
24954	252	253	16	-4
24955	253	254	13	-4
24956	254	255	24	-4
24957	255	256	18	8
24958	256	257	20	-4
24959	257	258	-1	-4
24960	258	259	-1	-4
24961	259	260	7	4
24962	260	261	3	-4
24963	261	262	-1	-4
24964	262	263	15	4
24965	263	264	70	73
24966	264	265	87	21
24967	265	266	2	-4
24968	266	267	17	-4
24969	267	268	14	-4
24970	268	269	16	-4
24971	269	270	10	4
24972	270	271	-1	-4
24973	271	272	58	-4
24974	272	273	-1	4
24975	273	274	-1	-4
24976	274	275	3	-4
24977	275	276	21	6
24978	276	277	19	-4
24979	277	278	28	-4
24980	278	279	26	8
24981	279	279.8	32	4

DUPLICATES

21724	18	20	5	56
21725	38	40	1	5
21726	58	60	3	4
21727	78	80	7	4
21728	98	100	3	-4

Method:	FA3	AA1
Detection Limit:	1	4

GEOLOGICAL LOG

241.3 - 279.8m Sheared meta-conglomerate, minor coarse grained meta-greywacke. (Thin section 23705 at 258.6m).
Conglomerate comprises recrystallised, slightly elongate quartz clasts up to 1cm in length, minor (sericitised) feldspar and ferruginous clasts in a green-grey foliated sericitic matrix.
Common quartz veining, 2mm to 2cm thick at approximately 30° to core axis.
Common fractures with chlorite ± graphite, pyrite and sericite in more sheared intervals 252 - 252.7m, 255.7 - 256.1m.
244.1 - 248m, 259 - 266m, 275 - 279.8m. More intensely sheared zones with chlorite and vein quartz predominant. Quartz is itself sometimes sheared and brecciated, and has a ribbon-like texture 277 - 277.4m. More massive quartz vein 276.3 - 277m.
Common disseminated and vein pyrite, with massive pyrite 263.3 - 264.1m.
Some pale pink adularia within quartz 247m.
Foliation generally <20° to core axis.

Analyses by AMDEL LABORATORIES LIMITED

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : RC

NOMINAL COLLAR POSITION
Easting : 743000
Northing : 8484300
Azimuth(Grid) : 270°
Inclination : -60°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : FENTON
PROSPECT : FENTON
HOLE No. : FRC 21
DEPTH : 120m
DRILL DATE: 09/07/94

Proposed by: RDS
Logged by : RDS
Contractor : Gomex
Rig : RCD150
Reason for drilling: Test IP anomaly.
Summary of results :
Comments :

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
17001	0	2	0.018	0.015
17002	2	4	0.003	
17003	4	6	0.001	
17004	6	8	0.001	
17005	8	10	0.001	
17006	10	12	0.001	
17007	12	14	0.001	
17008	14	16	0.001	0.001
17009	16	18	0.001	
17010	18	20	0.001	
17011	20	22	0.001	
17012	22	24	0.001	0.001
17013	24	26	0.001	
17014	26	28	0.002	
17015	28	30	0.002	
17016	30	32	0.001	
17017	32	34	0.001	
17018	34	36	0.001	
17019	36	38	0.002	
17020	38	40	0.006	0.009
17021	40	42	0.005	0.004
17022	42	44	0.003	0.003
17023	44	46	0.004	0.004
17024	46	48	0.002	
17025	48	50	0.002	
17026	50	52	0.001	
17027	52	54	0.001	
17028	54	56	0.002	0.002
17029	56	58	0.002	
17030	58	60	0.001	
17031	60	62	0.002	
17032	62	64	0.003	
17033	64	66	0.002	
17034	66	68	0.002	
17035	68	70	0.010	0.009
17036	70	72	0.005	
17037	72	74	0.004	
17038	74	76	0.007	0.008
17039	76	78	0.004	
17040	78	80	0.005	
17041	80	82	0.005	
17042	82	84	0.006	
17043	84	86	0.006	0.006
17044	86	88	0.003	
17045	88	90	0.009	0.007
17046	90	92	0.017	
17047	92	94	0.064	0.065
17048	94	96	0.040	0.035
17049	96	98	0.021	0.017
17050	98	100	0.048	0.042
17051	100	102	0.107	0.104
17052	102	104	0.012	0.012
17053	104	106	0.019	
17054	106	108	0.052	0.056
17055	108	110	0.080	
17056	110	112	0.047	
17057	112	114	0.015	
17058	114	116	0.006	

GEOLOGICAL LOG Water Cut :

0 - 34m SILTSTONE
Red-brown siltstone.

34 - 47m QUARTZ ARENITE
Matrix supported medium to coarse grained quartz arenite.

47m BASE OF CAMBRIAN

47 - 58m VOLCANOLITHIC META-GREYWACKE
Medium to coarse grained foliated greywacke, coarse pink feldspar and smokey quartz grains (up to 2mm) in finer grained quartz-muscovite? matrix.
Derived from felsic volcanics?
Pink alteration at 52 - 54m.
Minor quartz veining at 46 - 48m.

58 - 80m PHYLLITIC SILTSTONE
Grey-green phyllite/siltstone.
Meta-arkose at 46 - 78m.

Haematitic quartz veining at 66 - 70m.

80 - 92m META-GREYWACKE
Dark grey-green mildly foliated greywacke, fine to medium grained.

92 - 120m QUARTZ-CHLORITE SCHIST/PHYLLITE
Dark green chloritic meta-pelite.
Quartz-pyrite veining at 92 - 96m.
Quartz-pyrite veining at 100 - 102m.
Pale (sericite?) alteration + trace pyrite at 100 - 108m.

RC	DRILL HOLE	FENTON	FENTON	FRC 21	PAGE 2

ANALYTICAL DATA					GEOLOGICAL LOG
Sample NT	from (m)	to (m)	Au ppm	Au ppm	
17059	116	118	0.007		Mild silicification at 116 - 120m.
17060	118	120	0.080	0.082	
Method:			?	?	
Detection Limit:			0.001	0.001	Analyses by Assaycorp

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : RC

NOMINAL COLLAR POSITION
Easting : 743050
Northing : 8484800
Azimuth(Grid) : 270°
Inclination : -60°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : FENTON
PROSPECT : FENTON
HOLE No. : FRC 22
DEPTH : 200m
DRILL DATE: 09/07/94

Proposed by: RDS
Logged by : RDS
Contractor : Gomex
Rig : RCD150
Reason for drilling: Test IP anomaly.
Summary of results :
Comments :

ANALYTICAL DATA					GEOLOGICAL LOG	Water Cut :
Sample NT	from (m)	to (m)	Au ppm	Au ppm		
17061	0	2	0.003		0 - 26m	SILTSTONE
17062	2	4	0.001	0.001		Red-brown siltstone
17063	4	6	-0.001			
17064	6	8	-0.001			
17065	8	10	0.001			
17066	10	12	0.002			
17067	12	14	0.001			
17068	14	16	0.001			
17069	16	18	0.001			
17070	18	20	-0.001			
17071	20	22	-0.001			
17072	22	24	0.001			
17073	24	26	0.001			
17074	26	28	0.001		26 - 42m	ARENITE
17075	28	30	0.001	0.001		Medium grained red-brown quartz arenite.
17076	30	32	0.001			
17077	32	34	0.001			
17078	34	36	0.003			
17079	36	38	0.004	0.006		
17080	38	40	0.002			
17081	40	42	0.001			
17082	42	44	-0.001		42m	BASE OF CAMBRIAN
17083	44	46	0.001		42 - 60m	PHYLLITIC SILTSTONE/SHALE
17084	46	48	0.003	0.002		Mildly haematitic phyllite.
17085	48	50	0.001			
17086	50	52	0.001	0.001		
17087	52	54	0.001			
17088	54	56	0.006	0.005		
17089	56	58	0.004			
17090	58	60	0.001			
17091	60	62	0.002		60 - 64m	META-GREYWACKE
17092	62	64	0.003			Weakly foliated purple/brown fine to medium grained arkose. Minor haematitic quartz veining.
17093	64	66	0.003		64 - 120m	QUARTZ-MUSCOVITE SCHIST/PHYLLITE
17094	66	68	0.002			Grey-green phyllite/schist.
17095	68	70	0.002			Mildly haematitic at 64 - 86m.
17096	70	72	0.004	0.003		
17097	72	74	0.003			
17098	74	76	0.003			
17099	76	78	0.002			
17100	78	80	0.002			
17101	80	82	0.003	0.002		
17102	82	84	0.003			
17103	84	86	0.011			Trace pyrite at 85 - 94m.
17104	86	88	0.028	0.026		
17105	88	90	0.003			Pale "alteration", sericite? at 88 - 92m.
17106	90	92	0.005			
17107	92	94	0.004			
17108	94	96	0.003			
17109	96	98	0.004			
17110	98	100	0.008			
17111	100	102	0.003			
17112	102	104	0.002			
17113	104	106	0.004			
17114	106	108	0.003			
17115	108	110	0.002			
17116	110	112	0.004			
17117	112	114	0.003			
17118	114	116	0.005	0.005		
17119	116	118	0.010			Pale "alteration", sericite? at 116 - 120m.
17120	118	120	0.019	0.016		

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
17281	120	122	0.016	
17282	122	124	0.011	
17283	124	126	0.018	0.017
17284	126	128	0.037	0.032
17285	128	130	0.033	
17286	130	132	0.013	
17287	132	134	0.021	
17288	134	136	0.034	
17289	136	138	0.040	0.041
17290	138	140	0.027	
17291	140	142	0.023	0.024
17292	142	144	0.027	
17293	144	146	0.024	
17294	146	148	0.017	
17295	148	150	0.010	
17296	150	152	0.014	
17297	152	154	0.084	0.080
17298	154	156	0.023	
17299	156	158	0.005	0.006
17300	158	160	0.014	
17301	160	162	0.018	
17302	162	164	0.022	
17303	164	166	0.028	0.026
17304	166	168	0.007	
17305	168	170	0.009	
17306	170	172	0.015	
17307	172	174	0.008	
17308	174	176	0.023	0.019
17309	176	178	0.011	
17310	178	180	0.006	
17311	180	182	0.005	
17312	182	184	0.009	0.008
17313	184	186	0.013	
17314	186	188	0.004	
17315	188	190	0.030	0.028
17316	190	192	0.025	
17317	192	194	0.018	
17318	194	196	0.029	
17319	196	198	0.061	0.055
17320	198	200	0.019	0.016
DUPLICATES				
17321	150	152	0.009	
Method:			?	?
Detection Limit:			0.001	0.001

GEOLOGICAL LOG

120 - 134m QUARTZ-SERICITE SCHIST

Quartzose fine grained meta-sediment.
Pale green sericitic? alteration throughout.
Trace-minor pyrite along fracture and foliation surfaces.
Trace arsenopyrite associated with minor quartz veining.

134 - 150m META-GREYWACKE

Fine to medium grained foliated quartz greywacke.
Coarse (up to 3mm) white to dark grey quartz grains (possibly volcanic source) scattered throughout.

150 - 200m QUARTZ-SERICITE-CHLORITE SCHIST

Pale grey-green quartz rich schist.
Pale pinkish blush in some chips (albite alteration?).
Trace fine pyrite at 150 - 176m.
Trace arsenopyrite at 152 - 156m.
More intense pyrite + trace arsenopyrite mineralisation (>1%) at 164 - 166m.
More intense pyrite + trace arsenopyrite mineralisation (>1%) at 164 - 166m.

Pale alteration at 180 - 182m.
Sulphides, trace to absent below 180m.

Analyses by Assaycorp

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : RC

NOMINAL COLLAR POSITION
Easting : 743350
Northing : 8484800
Azimuth(Grid) : 270°
Inclination : -60°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : FENTON
PROSPECT : FENTON
HOLE No. : FRC 23
DEPTH : 120m
DRILL DATE: 10/07/94

Proposed by: RDS
Logged by : RDS
Contractor : Gomex
Rig : RCD150
Reason for drilling: Centre of broad gradient array IP anomaly.
Summary of results :
Comments :

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
17121	0	2	0.002	
17122	2	4	0.001	
17123	4	6	0.001	
17124	6	8	-0.001	
17125	8	10	0.001	
17126	10	12	0.002	
17127	12	14	0.003	
17128	14	16	0.002	
17129	16	18	0.002	
17130	18	20	0.001	0.001
17131	20	22	0.001	
17132	22	24	0.002	
17133	24	26	0.003	
17134	26	28	0.002	
17135	28	30	0.002	
17136	30	32	0.001	
17137	32	34	0.011	0.014
17138	34	36	0.016	0.016
17139	36	38	0.102	0.104
17140	38	40	0.037	
17141	40	42	0.014	
17142	42	44	0.002	
17143	44	46	0.001	
17144	46	48	0.009	
17145	48	50	0.003	
17146	50	52	0.003	
17147	52	54	0.005	
17148	54	56	0.018	0.018
17149	56	58	0.014	
17150	58	60	0.011	0.013
17151	60	62	0.014	
17152	62	64	0.007	
17153	64	66	0.004	
17154	66	68	0.005	
17155	68	70	0.003	
17156	70	72	0.005	
17157	72	74	0.005	0.006
17158	74	76	0.003	
17159	76	78	0.002	
17160	78	80	0.003	
17161	80	82	0.005	
17162	82	84	0.058	0.070
17163	84	86	0.018	
17164	86	88	0.013	0.012
17165	88	90	0.004	
17166	90	92	0.001	
17167	92	94	0.002	
17168	94	96	0.003	
17169	96	98	0.006	
17170	98	100	0.005	
17171	100	102	0.004	
17172	102	104	0.001	0.002
17173	104	106	0.002	
17174	106	108	0.004	
17175	108	110	0.004	
17176	110	112	0.003	0.003
17177	112	114	0.001	
17178	114	116	0.080	0.086

GEOLOGICAL LOG Water Cut :

0 - 14m HAEMATITIC SILT

14 - 58m AMPHIBOLITE
Medium grained amphibole rock.
Quartz veining and chlorite alteration at 14 - 20m.

Chlorite and haematite alteration at 42 - 52m.

58 - 66m CHERT?
Pink very fine grained siliceous rock, possibly chert with thin chlorite veins (1 - 2mm).

66 - 80m QUARTZ-MUSCOVITE + CHLORITE SCHIST
Grey-green quartz-muscovite schist, mildly chloritic.
Silicified towards base.

80 - 100m SHEARED QUARTZ-CHLORITE-MUSCOVITE SCHIST
Chloritised and sheared schist.
Minor haematitic quartz veining.
Trace fine grained pyrite and chalcopyrite within chloritised shear surfaces.

100 - 116m QUARTZ VEINED HAEMATITIC CHLORITE-MUSCOVITE SCHIST
Interval consists of approx 50% quartz.
Remainder is chlorite-muscovite schist, haematite altered.
Trace fine grained pyrite and chalcopyrite associated with more chloritic fragments.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
17179	116	118	0.005	
17180	118	120	0.004	
Method:			?	?
Detection Limit:			0.001	0.001

GEOLOGICAL LOG

116 - 120m QUARTZ-CHLORITE ROCK
Dark green quartz and ? rock.
Pale pink quartz fragments (1 - 2mm) as ?
chloritic matrix.
Suggestion of chlorite pseudomorphing amphibole.

Analyses by Assaycorp

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : RC

NOMINAL COLLAR POSITION
Easting : 743500
Northing : 8484800
Azimuth(Grid) : 270°
Inclination : -60°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : FENTON
PROSPECT : FENTON
HOLE No. : FRC 24
DEPTH : 74m
DRILL DATE: 11/07/94

Proposed by: RDS
Logged by : RDS
Contractor : Gomex
Rig : RCD150
Reason for drilling: Test gradient array IP anomaly.
Summary of results :
Comments :

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
17181	0	2	0.003	
17182	2	4	0.004	
17183	4	6	0.003	
17184	6	8	0.004	
17185	8	10	0.006	
17186	10	12	0.010	0.008
17187	12	14	0.008	
17188	14	16	0.003	
17189	16	18	0.002	0.002
17190	18	20	0.003	
17191	20	22	0.001	
17192	22	24	0.001	
17193	24	26	0.002	
17194	26	28	0.003	
17195	28	30	0.002	0.001
17196	30	32	0.001	
17197	32	34	0.002	
17198	34	36	0.002	
17199	36	38	0.002	
17200	38	40	0.002	
17201	40	42	0.001	
17202	42	44	0.001	
17203	44	46	0.002	
17204	46	48	0.004	0.003
17205	48	50	0.001	
17206	50	52	0.001	
17207	52	54	0.001	
17208	54	56	0.001	
17209	56	58	0.002	
17210	58	60	0.001	
17211	60	62	0.001	
17212	62	64	0.001	
17213	64	66	0.013	
17214	66	68	0.006	
17215	68	70	0.010	
17216	70	72	0.007	0.007
17217	72	74	0.007	
DUPLICATES				
17218	48	50	0.001	
Method:			?	?
Detection Limit:			0.001	0.001

GEOLOGICAL LOG Water Cut :

0 - 18m WEATHERED ARENITE
Yellow brown clayey arenite.
Weathered base of Cambrian.

18m BASE OF CAMBRIAN

18 - 34m QUARTZ-MUSCOVITE SCHIST

34 - 40m CHERTY ROCK
Mottley pale pink-grey green cryptocrystalline siliceous rock. Cherty appearance.

40 - 52m QUARTZ-MUSCOVITE SCHIST

52 - 70m QUARTZ-MICA-FELDSPAR SCHIST
Dark grey fine to medium grained texture.
Minor red garnet?
Some amphibolite rich zones.
Possibly hornfelsed greywacke.

70 - 72m CHERTY ROCK
Very fine grained pale pink siliceous rock.
Trace disseminated arsenopyrite.

72 - 74m QUARTZ-AMPHIBOLE HORNFELS
Dark grey-black amphibole and quartz-hornfels rock.

Analyses by Assaycorp

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : RC

NOMINAL COLLAR POSITION
Easting : 743600
Northing : 8484800
Azimuth(Grid) : 270°
Inclination : -60°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : FENTON
PROSPECT : FENTON
HOLE No. : FRC 25
DEPTH : 120m
DRILL DATE: 13/07/94

Proposed by: RDS
Logged by : RDS
Contractor : Gomex
Rig : RCD150
Reason for drilling: Resistivity anomaly along strike from gossanous quartz outcrop.
Summary of results :
Comments :

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
17219	0	2	0.002	
17220	2	4	0.003	
17221	4	6	0.002	
17222	6	8	0.005	
17223	8	10	0.004	
17224	10	12	0.021	
17225	12	14	0.025	0.029
17226	14	16	0.010	
17227	16	18	0.004	
17228	18	20	0.003	
17229	20	22	0.023	
17230	22	24	0.013	
17231	24	26	0.028	
17232	26	28	0.015	
17233	28	30	0.103	0.098
17234	30	32	0.007	
17235	32	34	0.007	
17236	34	36	0.011	
17237	36	38	0.008	0.010
17238	38	40	0.003	0.005
17239	40	42	0.004	
17240	42	44	0.005	
17241	44	46	0.004	
17242	46	48	0.004	
17243	48	50	0.004	
17244	50	52	0.005	
17245	52	54	0.005	0.005
17246	54	56	0.003	0.004
17247	56	58	0.002	
17248	58	60	0.004	
17249	60	62	0.010	
17250	62	64	0.007	
17251	64	66	0.004	0.004
17252	66	68	0.020	0.020
17253	68	70	0.045	0.043
17254	70	72	0.014	0.027
17255	72	74	0.005	
17256	74	76	0.005	
17257	76	78	0.037	
17258	78	80	0.007	
17259	80	82	0.005	
17260	82	84	0.005	
17261	84	86	0.005	
17262	86	88	0.044	0.042
17263	88	90	0.059	0.051
17264	90	92	0.023	0.024
17265	92	94	0.033	
17266	94	96	0.007	
17267	96	98	0.014	
17268	98	100	0.021	0.019
17269	100	102	0.005	
17270	102	104	0.004	
17271	104	106	0.034	
17272	106	108	0.049	
17273	108	110	0.064	0.056
17274	110	112	0.051	
17275	112	114	0.021	0.018
17276	114	116	0.003	
17277	116	118	0.006	
17278	118	120	0.003	

GEOLOGICAL LOG Water Cut :

0 - 10m SILTSTONE
Red-brown siltstone.

10m BASE OF CAMBRIAN

10 - 38m HAEMATITIC QUARTZ VEINED GREYWACKE
Fine to medium grained haematitic greywacke.
Weakly foliated.
Some haematite pseudomorphing of pyrite.

Abundant haematitic quartz (>50% from 22 - 34m).

38 - 86m SILICIFIED AND VEINED META-SEDIMENT
Mottley pale green and purple siliceous rock.
Fine grained texture - hornfelsed arenite?
Haematitic and partly chloritic.
Evidence of pre-existing sulphides in the form of haematitic cubic vughs.

86 - 120m QUARTZ-MUSCOVITE-CHLORITE SCHIST
Mottley pale green/dark green quartz-muscovite-chlorite schist.
Haematitic alteration at 86 - 96m.
Quartz-pyrite veining at 86 - 90m - mildly graphitic.
Trace pyrite disseminated throughout interval.

Quartz-pyrite veining at 106 - 110m.

ANALYTICAL DATA

GEOLOGICAL LOG

Sample NT	from (m)	to (m)	Au ppm	Au ppm
DUPLICATES				
17279	60	62	0.006	
17280	98	100	0.033	0.029
Method:			?	?
Detection Limit:			0.001	0.001

Analyses by Assaycorp

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : RC

NOMINAL COLLAR POSITION
Easting : 743535
Northing : 8484980
Azimuth(Grid) : 270°
Inclination : -60°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : FENTON
PROSPECT : FENTON
HOLE No. : FRC 26
DEPTH : 120m
DRILL DATE: 16/07/94

Proposed by: RDS
Logged by : RDS
Contractor : Gomex
Rig : RCD150
Reason for drilling: Resistivity anomaly and outcropping gossanous quartz veining.
Summary of results :
Comments :

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
17322	0	2	0.010	
17323	2	4	0.029	0.035
17324	4	6	0.008	
17325	6	8	0.007	
17326	8	10	0.017	
17327	10	12	0.005	
17328	12	14	0.003	
17329	14	16	0.002	
17330	16	18	0.005	
17331	18	20	0.003	
17332	20	22	0.034	0.032
17333	22	24	0.048	
17334	24	26	0.004	0.004
17335	26	28	0.024	
17336	28	30	0.081	0.077
17337	30	32	0.013	
17338	32	34	0.008	
17339	34	36	0.002	
17340	36	38	0.014	
17341	38	40	0.002	
17342	40	42	0.002	
17343	42	44	0.010	
17344	44	46	0.004	
17345	46	48	0.011	
17346	48	50	0.019	0.017
17347	50	52	0.003	0.003
17348	52	54	0.003	
17349	54	56	0.011	
17350	56	58	0.004	0.005
17351	58	60	0.006	
17352	60	62	0.003	
17353	62	64	0.016	
17354	64	66	0.003	
17355	66	68	0.052	0.040
17356	68	70	0.005	
17357	70	72	0.005	
17358	72	74	0.004	
17359	74	76	0.006	
17360	76	78	0.022	0.016
17361	78	80	0.035	0.030
17362	80	82	0.010	
17363	82	84	0.006	
17364	84	86	0.002	
17365	86	88	0.005	
17366	88	90	0.004	0.004
17367	90	92	0.002	
17368	92	94	0.001	
17369	94	96	0.009	
17370	96	98	0.011	0.011
17371	98	100	0.004	
17372	100	102	0.002	
17373	102	104	0.001	0.001
17374	104	106	0.002	
17375	106	108	0.006	
17376	108	110	0.018	0.018

GEOLOGICAL LOG Water Cut :

0 - 38m HAEMATITIC/PYRITIC QUARTZ VEINED ARENITE
Abundant haematitic/pyritic quartz veining.
Purple brown fine to medium grained arenite.
Quartz >50% of interval.

38 - 92m ARENITE
Fine to medium grained partly haematitic feldspathic arenite.
Weak foliation.
Rare quartz vein fragments.

92 - 108m ALTERED FELDSPATHIC ARENITE
Fine grained feldspathic arenite.
Pink-red alteration. Possibly haematitic albite.

108 - 110m QUARTZ-FELDSPAR DYKE
Fine grained pink-red feldspar rich rock.
80% feldspar, 20% quartz, possibly dyke.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
17377	110	112	0.006	
17378	112	114	0.003	
17379	114	116	0.005	
17380	116	118	0.001	
17381	118	120	0.010	
DUPLICATES				
17382	48	50	0.017	0.018
17383	98	100	0.005	
Method:			FA50	FA50
Detection Limit:			0.001	0.001

GEOLOGICAL LOG

110 - 120m ARENITE
Fine to medium grained dark grey arenite.
No obvious foliation.

Analyses by ASSAYCORP PTY LTD

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : RC

NOMINAL COLLAR POSITION
Easting : 743250
Northing : 8485500
Azimuth(Grid) : 270°
Inclination : -60°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : FENTON
PROSPECT : FENTON
HOLE No. : FRC 27
DEPTH : 110m
DRILL DATE: 18/07/94

Proposed by: RDS
Logged by : RDS
Contractor : Gomex
Rig : RCD150
Reason for drilling: Coincident IP and resistivity anomaly.
Summary of results :
Comments :

ANALYTICAL DATA					GEOLOGICAL LOG	Water Cut :
Sample NT	from (m)	to (m)	Au ppm	Au ppm		
17384	0	2	0.002	0.001	0 - 20m	SILTSTONE/ARENITE
17385	2	4	0.002			
17386	4	6	0.002			
17387	6	8	0.001			
17388	8	10	0.002			
17389	10	12	-0.001			
17390	12	14	0.001			
17391	14	16	0.002			
17392	16	18	0.003			
17393	18	20	0.012	0.016		
17394	20	22	0.006	0.008	20 - 22m	"BASAL" ARKOSE Red-brown medium grained arkose. Some granitic fragments.
17395	22	24	0.011		22m	BASE OF OXIDATION
17396	24	26	0.004		22 - 54m	QUARTZ-MUSCOVITE SCHIST (META-PELITE) Quartz-muscovite +/- chlorite schist, mildly haematitic.
17397	26	28	0.002			
17398	28	30	0.001			
17399	30	32	0.002	0.001		
17400	32	34	0.001			Up to 10% quartz chips at 32 - 42m.
17401	34	36	0.001			
17402	36	38	0.003			
17403	38	40	0.002			
17404	40	42	0.001			
17405	42	44	0.001			
17406	44	46	0.001			
17407	46	48	0.001			
17408	48	50	0.001			
17409	50	52	0.001	0.001		
17410	52	54	0.001			
17411	54	56	0.002		54 - 62m	QUARTZ-MUSCOVITE-FELDSPAR SCHIST (META-GREYWACKE) Quartz-muscovite-feldspar schist.
17412	56	58	0.003			
17413	58	60	0.004	0.004		Coarser texture than previous interval - suggests greywacke.
17414	60	62	0.001			
17415	62	64	0.002	0.001	62 - 88m	QUARTZ-MUSCOVITE-CHLORITE SCHIST Green schist.
17416	64	66	0.002			Quartz veining at 60 - 64m.
17417	66	68	0.001			Irregular surfaces suggesting shearing at 60 - 70m.
17418	68	70	0.001			
17419	70	72	0.001			
17420	72	74	0.005	0.008		
17421	74	76	0.002			
17422	76	78	0.004			
17423	78	80	0.002			
17424	80	82	0.009	0.014		
17425	82	84	0.001			
17426	84	86	0.001	0.010		
17427	86	88	0.001	0.001		
17428	88	90	0.001		88 - 102m	QUARTZITE?/CHERT? Very fine grained dark grey quartz rich rock.
17429	90	92	0.001			Possibly quartzite or chert?
17430	92	94	0.001			No obvious foliation.
17431	94	96	0.002			
17432	96	98	0.005	0.005		
17433	98	100	0.002			
17434	100	102	0.001			
17435	102	104	0.001		102 - 110m	QUARTZ-CHLORITE-BIOTITE SCHIST Dark grey fine grained quartz-rich schist.
17436	104	106	0.001	0.001		Biotite and chlorite (after biotite?) on foliation surfaces.
17437	106	108	0.001			Weakly hornfelsed schist?
17438	108	110	0.001	0.001		Pale pinkish alteration at 102 - 104m.

ANALYTICAL DATA

GEOLOGICAL LOG

Sample NT	from (m)	to (m)	Au ppm	Au ppm
DUPLICATES				
17439	48	50	0.001	
Method:			FA50	FA50
Detection Limit:			0.001	0.001

Analyses by ASSAYCORP PTY LTD

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : RC

NOMINAL COLLAR POSITION
Easting : 743100
Northing : 8484500
Azimuth(Grid) : 270°
Inclination : -70°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : FENTON
PROSPECT : FENTON
HOLE No. : FRC 28
DEPTH : 150m
DRILL DATE: 19/07/94

Proposed by: RDS
Logged by : RDS
Contractor : Gomex
Rig : RCD150
Reason for drilling: Mag anomaly.
Summary of results :
Comments :

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
17440	0	2	0.001	
17441	2	4	0.001	
17442	4	6	0.001	
17443	6	8	0.001	0.001
17444	8	10	0.001	
17445	10	12	0.001	
17446	12	14	0.001	
17447	14	16	0.002	
17448	16	18	0.001	0.001
17449	18	20	0.001	
17450	20	22	0.001	
17451	22	24	0.001	
17452	24	26	0.002	
17453	26	28	0.002	
17454	28	30	0.002	0.002
17455	30	32	0.002	
17456	32	34	0.001	
17457	34	36	0.006	0.005
17458	36	38	0.001	0.001
17459	38	40	0.001	
17460	40	42	0.001	
17461	42	44	0.001	
17462	44	46	0.001	
17463	46	48	0.001	0.002
17464	48	50	0.001	
17465	50	52	0.001	
17466	52	54	0.001	
17467	54	56	0.001	0.001
17468	56	58	0.001	
17469	58	60	0.001	0.001
17470	60	62	0.001	
17471	62	64	0.001	
17472	64	66	0.001	
17473	64	68	0.001	
17474	66	70	0.001	
17475	68	72	0.001	0.001
17476	70	74	0.001	
17477	74	76	0.001	
17478	76	78	0.001	
17479	78	80	0.001	
17480	80	82	0.001	0.001
17481	82	84	-0.001	
17482	84	86	-0.001	
17483	86	88	0.001	
17484	88	90	0.001	
17485	90	92	0.008	0.011
17486	92	94	0.002	
17487	94	96	0.002	
17488	96	98	0.003	
17489	98	100	0.021	0.024
17490	100	102	0.061	0.082
17491	102	104	0.023	0.024
17492	104	106	0.006	

GEOLOGICAL LOG Water Cut :

0 - 34m RED/BROWN SILTSTONE

34 - 38m ARENITE
Red-brown clay matrix supported arenite.

38m BASE OF CAMBRIAN

38 - 64m QUARTZ-MUSCOVITE-FELDSPAR SCHIST (META-GREYWACKE)
Purply brown schist.
Fine to medium grained quartz clasts in foliated mica-feldspar matrix.
Moderately haematitic.
Occasional biotite rich interval.

Chloritic alteration at 62 - 64m.

64 - 66m QUARTZ-BIOTITE-FELDSPAR ROCK
Dark grey quartz-biotite rock with coarser feldspar (1 - 5mm) laths. Irregular texture.

66 - 74m QUARTZ-FELDSPAR AND MUSCOVITE SCHIST (META-GREYWACKE)
Mildly haematitic, pale purple brown.
1 - 2mm quartz grains (volcanolithic?) in quartzofeldspathic matrix.
Fine muscovite evident on foliation surfaces.
Thin (2mm) quartz-haematite + pyrite vein perpendicular to S0/S1 at 66 - 68m.
Pink feldspar (albite?) alteration close to vein.

74 - 84m QUARTZ-FELDSPAR SCHIST (META-GREYWACKE)
Massive pale grey green fine grained meta-greywacke.

Thin (1mm) haematite fracture veins at 80 - 84m, possibly ex-sulphide.

84 - 106m FRACTURED SERICITIC, CHLORITIC SCHIST/PHYLLITE
Grey green - pale yellow green phyllite.
Chloritised on S0 parallel shear surfaces.
Some meta-greywacke interbeds (approx 10%).
Abundant thin dark grey quartz veins with minor pyrite.
Some coarser quartz-haematite aggregates, haematite pseudomorphing sulphide.
More intense sericite alteration at 96 - 98m.
Up to 10% pyrite and trace arsenopyrite at 100 - 106m in quartz veining.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
17493	106	108	0.196	0.199
17494	108	110	0.013	0.012
17495	110	112	0.008	
17496	112	114	0.007	
17497	114	116	0.008	0.010
17498	116	118	0.006	
17499	118	120	0.010	
17500	120	122	0.013	0.010
17501	122	124	0.010	
17502	124	126	0.128	0.132
17503	126	128	0.019	0.026
17504	128	130	0.008	0.008
17505	130	132	0.003	
17506	132	134	0.004	
17507	134	136	0.005	0.005
17508	136	138	0.008	0.011
17509	138	140	0.006	
17510	140	142	0.005	
17511	142	144	0.195	0.178
17512	144	146	0.011	
17513	146	148	0.007	
17514	148	150	0.008	0.009

DUPLICATES

17515	48	50	0.001	
17516	98	100	0.017	
17517	148	150	0.007	

Method:	FA50	FA50
Detection Limit:	0.001	0.001

GEOLOGICAL LOG

106 - 124m CHERTY PHYLLITE?
Very fine grained dark grey green quartz-chlorite rock, saccharoidal texture.
Thin selvedges of pyrite on fracture surfaces.

124 - 128m FRACTURED QUARTZ-SERICITE SCHIST
Dark grey quartz + sericite + chlorite schist.
Abundant quartz + pyrite + arsenopyrite at 124 - 126m.
Sphalerite evident in one chip at 124 - 126m.

128 - 138m QUARTZ + SERICITE + CHLORITE SCHIST
Pale grey green fine grained textured schist - meta-siltstone.

138 - 144m QUARTZ-PHYLLITE?
Very fine grained meta-pelite?
Quartz rich cherty appearance (possibly tuff?).
Midly chloritic.
Trace disseminated pyrite.

144 - 150m QUARTZ-SERICITE-CHLORITE SCHIST
Quartz-sericite-chlorite schist/phyllite (meta siltstone/ shale).
Minor quartz + pyrite veining.

Analyses by ASSAYCORP PTY LTD

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : RC

NOMINAL COLLAR POSITION
Easting : 743250
Northing : 8484000
Azimuth(Grid) : 270°
Inclination : -70°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : FENTON
PROSPECT : FENTON
HOLE No. : FRC 29
DEPTH : 150m
DRILL DATE: 21/07/94

Proposed by: RDS
Logged by : RDS
Contractor : Gomex
Rig : RCD150
Reason for drilling: Test Mag/IP anomaly.
Summary of results :
Comments :

ANALYTICAL DATA					GEOLOGICAL LOG	Water Cut :
Sample NT	from (m)	to (m)	Au ppm	Au ppm		
17518	0	2	0.003		0 - 32m	SILTSTONE
17519	2	4	0.001			Red-brown siltstone.
17520	4	6	0.001			
17521	6	8	0.001			
17522	8	10	0.001			
17523	10	12	-0.001			
17524	12	14	0.001	0.002		
17525	14	16	0.001			
17526	16	18	0.001			
17527	18	20	0.001			
17528	20	22	0.001			
17529	22	24	0.001			
17530	24	26	-0.001			
17531	26	28	0.002			
17532	28	30	0.001			
17533	30	32	0.001			
17534	32	34	0.001		32 - 48m	ARENITE
17535	34	36	0.002	0.002		
17536	36	38	0.001			
17537	38	40	0.001			
17538	40	42	0.004			
17539	42	44	0.004			
17540	44	46	0.002			
17541	46	48	0.001			
17542	48	50	0.002		48m	BASE OF CAMBRIAN
17543	50	52	0.003		48 - 58m	FRACTURED, HAEMATITIC QUARTZ-CHLORITE-SERICITE SCHIST
17544	52	54	0.007			Purple/pale yellow green quartz-mica schist.
17545	54	56	0.002			Fine to medium grained quartz grains suggest meta-greywacke.
17546	56	58	0.005	0.006		Strongly haematitic and sericitic with up to 10% quartz veining.
						Some haematite after sulphides.
17547	58	60	0.016		58 - 90m	FRACTURED HAEMATITIC SERICITE PHYLLITE
17548	60	62	0.011			Similar to previous interval but pelitic.
17549	62	64	0.033	0.035		
17550	64	66	0.020	0.016		
17551	66	68	0.005			
17552	68	70	0.008			
17553	70	72	0.014			
17554	72	74	0.077	0.064		
17555	74	76	0.030			
17556	76	78	0.026	0.025		
17557	78	80	0.062	0.063		
17558	80	82	0.008			
17559	82	84	0.002			
17560	84	86	0.031			
17561	86	88	1.350	1.540		
17562	88	90	0.018			
17563	90	92	0.370	0.410	90 - 120m	FRACTURED QUARTZ-CHLORITE SERICITE SCHIST
17564	92	94	0.024			Dark grey green meta-pelite.
17565	94	96	0.014			Quartz-pyrite veining throughout.
17566	96	98	0.138	0.140		Strongest development at 104 - 112m.
17567	98	100	0.019			Pyrite also occurs as irregular aggregates on fracture surfaces.
17568	100	102	0.009			
17569	102	104	0.005			
17570	104	106	0.004			
17571	106	108	0.009			
17572	108	110	0.002			
17573	110	112	0.010			Carbonaceous at 110 - 112m.
17574	112	114	0.003			
17575	114	116	0.003			
17576	116	118	0.002	0.004		

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
17577	118	120	0.007	
17578	120	122	-0.001	
17579	122	124	-0.001	
17580	124	126	0.018	
17581	126	128	0.121	0.130
17582	128	130	0.017	
17583	130	132	0.004	0.006
17584	132	134	0.009	
17585	134	136	0.010	
17586	136	138	0.220	0.220
17587	138	140	0.039	0.039
17588	140	142	0.020	
17589	142	144	0.006	
17590	144	146	0.004	
17591	146	148	0.011	0.011
17592	148	150	0.010	
DUPLICATES				
17593	48	50	0.002	
17594	98	100	0.024	0.025
17595	148	150	0.010	0.014
Method:			?	?
Detection Limit:			0.001	0.001

GEOLOGICAL LOG

120 - 130m CHERTY PHYLLITE?
Grey green and pinkish cryptocrystalline quartz and albite rich rock. No pronounced foliation.
Up to 1% pyrite occurs on thin chloritic fracture surfaces.

130 - 150m QUARTZ-FELDSPAR-CHLORITE SCHIST (META-GREYWACKE)
Dark grey green chloritic schist.
Fine grained texture with coarser grained quartz + feldspar grains.
Meta-greywacke (fine to medium grained).
Very fine muscovite on foliation surfaces.
Minor pyrite occurs along fracture partings and within S0 parallel veinlets.

Analyses by Assaycorp

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : RC

NOMINAL COLLAR POSITION
Easting : 743300
Northing : 8484000
Azimuth(Grid) : 270°
Inclination : -70°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : FENTON
PROSPECT : FENTON
HOLE No. : FRC 30
DEPTH : 150m
DRILL DATE: 22/07/94

Proposed by: RDS
Logged by : RDS
Contractor : Gomex
Rig : RCD150
Reason for drilling: Magnetic anomaly.
Summary of results :
Comments :

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
17596	0	2	0.003	
17597	2	4	0.001	
17598	4	6	0.002	
17599	6	8	0.001	
17600	8	10	0.001	
17601	10	12	0.001	
17602	12	14	0.001	
17603	14	16	0.001	
17604	16	18	0.020	0.014
17605	18	20	0.001	0.001
17606	20	22	0.001	
17607	22	24	0.001	
17608	24	26	-0.001	
17609	26	28	0.001	
17610	28	30	-0.001	
17611	30	32	0.001	
17612	32	34	0.002	
17613	34	36	0.001	
17614	36	38	0.006	
17615	38	40	0.006	
17616	40	42	0.005	
17617	42	44	-0.001	
17618	44	46	0.001	
17619	46	48	0.002	
17620	48	50	0.001	
17621	50	52	0.001	
17622	52	54	0.001	
17623	54	56	0.001	0.001
17624	56	58	0.001	0.001
17625	58	60	0.002	
17626	60	62	0.001	
17627	62	64	-0.001	
17628	64	66	0.001	
17629	66	68	0.001	
17630	68	70	0.001	
17631	70	72	-0.001	
17632	72	74	-0.001	
17633	74	76	0.001	
17634	76	78	-0.001	
17635	78	80	0.005	0.004
17636	80	82	0.004	0.004
17637	82	84	0.002	
17638	84	86	0.010	0.011
17639	86	88	-0.001	
17640	88	90	0.001	
17641	90	92	-0.001	
17642	92	94	-0.001	
17643	94	96	-0.001	
17644	96	98	0.017	0.017
17645	98	100	-0.001	
17646	100	102	0.330	0.290
17647	102	104	0.018	0.023
17648	104	106	0.004	
17649	106	108	0.006	
17650	108	110	0.018	0.020
17651	110	112	0.024	0.018
17652	112	114	0.026	0.034
17653	114	116	-0.001	
17654	116	118	-0.001	

GEOLOGICAL LOG Water Cut :

0 - 6m SILICIFIED DOLOMITE

6 - 30m SILTSTONE
Red-brown/maroon siltstone.

30 - 44m ARENITE
Red-brown/maroon clayey matrix supported arenite.

Some quartz vein fragments at 42 - 44m associated with ??

44m BASE OF CAMBRIAN

44 - 118m HAEMATITIC QUARTZ-CHLORITE SCHIST/PHYLLITE
Purple brown, occasionally greenish quartz chlorite, mica schist/phyllite (fine grained meta-greywacke/siltstone). Irregular surfaces indicate shearing/fracturing. Haematite may replace sulphides.

Haematitic quartz vein at 62 - 64m.

Haematitic quartz vein at 72 - 74m.

Becomes less haematitic below 84m.

"Spotted" muscovite schist at 100 - 102m.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
17655	118	120	-0.001	
17656	120	122	0.012	0.017
17657	122	124	-0.001	
17658	124	126	-0.001	
17659	126	128	0.003	0.006
17660	128	130	0.002	
17661	130	132	0.008	
17662	132	134	0.013	0.013
17663	134	136	0.004	
17664	136	138	0.005	
17665	138	140	0.018	
17666	140	142	0.018	0.021
17667	142	144	0.013	0.018
17668	144	146	0.008	
17669	146	148	0.004	
17670	148	150	0.010	
DUPLICATES				
17671	48	50	-0.001	
17672	98	100	0.009	
17673	148	150	0.005	
Method:			FA50	FA50
Detection Limit:			0.001	0.001

GEOLOGICAL LOG

118 - 138m WEAKLY FOLIATED META-GREYWACKE

Dark grey fine to medium grained weakly foliated greywacke.
Muscovite on foliation surfaces.
Minor pyrite on fracture surfaces.

138 - 142m GRAPHITIC SCHIST

Sheared carbonaceous/graphite schist.
Trace pyrite on shear surfaces.
Mildly chloritised.

142 - 150m QUARTZ SERICITE PHYLLITE

Pale green phyllite (meta-siltstone).

Analyses by ASSAYCORP PTY LTD

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : RC

NOMINAL COLLAR POSITION
Easting : 744300
Northing : 8484000
Azimuth(Grid) : 90°
Inclination : -60°
Reduced Level : 82

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : FENTON
PROSPECT : FENTON
HOLE No. : FRC 31
DEPTH : 150m
DRILL DATE: 26/07/94

Proposed by: RDS
Logged by : RDS
Contractor : Gomex
Rig : RC0150
Reason for drilling:
Summary of results :
Comments :

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
17674	0	2	0.003	
17675	2	4	-0.001	
17676	4	6	-0.001	
17677	6	8	0.002	
17678	8	10	-0.001	
17679	10	12	-0.001	0.001
17680	12	14	-0.001	
17681	14	16	0.006	0.007
17682	16	18	0.002	
17683	18	20	0.001	
17684	20	22	0.001	
17685	22	24	0.002	
17686	24	26	0.001	
17687	26	28	0.001	
17688	28	30	0.002	
17689	30	32	0.001	
17690	32	34	0.002	
17691	34	36	-0.001	
17692	36	38	0.001	
17693	38	40	0.001	
17694	40	42	0.001	
17695	42	44	0.001	
17696	44	46	0.001	
17697	46	48	0.001	
17698	48	50	-0.001	
17699	50	52	0.001	
17700	52	54	0.001	
17701	54	56	0.002	0.003
17702	56	58	0.001	
17703	58	60	0.002	
17704	60	62	0.001	
17705	62	64	0.001	
17706	64	66	0.001	
17707	66	68	0.001	
17708	68	70	-0.001	
17709	70	72	0.002	0.003
17710	72	74	0.001	
17711	74	76	0.002	
17712	76	78	0.001	
17713	78	80	0.001	
17714	80	82	-0.001	
17715	82	84	0.001	
17716	84	86	-0.001	
17717	86	88	-0.001	
17718	88	90	0.001	
17719	90	92	0.002	0.002
17720	92	94	0.001	
17721	94	96	0.001	
17722	96	98	0.001	
17723	98	100	0.001	
17724	100	102	-0.001	
17725	102	104	0.003	0.003
17726	104	106	0.001	
17727	106	108	-0.001	
17728	108	110	-0.001	
17729	110	112	-0.001	
17730	112	114	-0.001	
17731	114	116	-0.001	
17732	116	118	-0.001	
17733	118	120	-0.001	
17734	120	122	0.001	

GEOLOGICAL LOG Water Cut :

No geological log.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
17735	122	124	-0.001	0.001
17736	124	126	-0.001	
17737	126	128	0.001	
17738	128	130	0.002	0.002
17739	130	132	0.002	
17740	132	134	-0.001	0.001
17741	134	136	-0.001	
17742	136	138	-0.001	
17743	138	140	-0.001	
17744	140	142	0.001	
17745	142	144	-0.001	
17746	144	146	-0.001	
17747	146	148	0.002	0.003
17748	148	150	0.001	
Method:			FA50	FA50
Detection Limit:			0.001	0.001

GEOLOGICAL LOG

Analyses by ASSAYCORP PTY LTD

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : RC

NOMINAL COLLAR POSITION
Easting : 743500
Northing : 8484000
Azimuth(Grid) : 90°
Inclination : -60°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : FENTON
PROSPECT : FENTON
HOLE No. : FRC 32
DEPTH : 150m
DRILL DATE: 27/07/94

Proposed by: RDS
Logged by : RDS
Contractor : Gomex
Rig : RCD150
Reason for drilling: Test resistivity anomaly.
Summary of results :
Comments :

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
17749	0	2	0.001	
17750	2	4	0.001	
17751	4	6	-0.001	
17752	6	8	-0.001	
17753	8	10	-0.001	
17754	10	12	-0.001	
17755	12	14	0.001	0.001
17756	14	16	0.001	
17757	16	18	0.001	
17758	18	20	0.001	
17759	20	22	0.001	
17760	22	24	0.010	0.010
17761	24	26	0.008	0.008
17762	26	28	0.002	0.002
17763	28	30	0.001	
17764	30	32	-0.001	
17765	32	34	0.002	
17766	34	36	-0.001	
17767	36	38	0.002	0.001
17768	38	40	0.001	
17769	40	42	0.001	
17770	42	44	0.001	
17771	44	46	0.001	
17772	46	48	0.001	
17773	48	50	0.001	
17774	50	52	0.001	0.001
17775	52	54	-0.001	
17776	54	56	-0.001	
17777	56	58	0.003	0.003
17778	58	60	0.004	0.004
17779	60	62	0.003	0.004
17780	62	64	0.003	
17781	64	66	0.002	
17782	66	68	0.002	
17783	68	70	0.002	
17784	70	72	0.004	
17785	72	74	0.002	0.002
17786	74	76	0.012	0.012
17787	76	78	0.001	
17788	78	80	0.001	
17789	80	82	0.001	
17790	82	84	0.001	
17791	84	86	-0.001	
17792	86	88	-0.001	
17793	88	90	0.001	0.001
17794	90	92	-0.001	
17795	92	94	0.002	
17796	94	96	0.008	0.007
17797	96	98	0.002	
17798	98	100	0.002	0.002
17799	100	102	0.003	
17800	102	104	0.003	0.003
17801	104	106	0.003	
17802	106	108	0.001	
17803	108	110	0.001	
17804	110	112	0.002	
17805	112	114	0.002	
17806	114	116	0.002	
17807	116	118	0.002	
17808	118	120	0.003	

GEOLOGICAL LOG Water Cut :

0 - 8m RED SOIL

8 - 16m SILTSTONE
Red-brown siltstone.

16 - 22m ARENITE
Red-brown clayey matrix supported medium grained arenite.

22m BASE OF CAMBRIAN

22 - 120m QUARTZ CHLORITE-MUSCOVITE SCHIST
Grey green schist. Fine grained texture.
Pinkish red albite? alteration at 34 - 40m.
Possibly a foliated fine to medium grained greywacke.

Minor quartz + pyrite at 72 - 76m.

Increase in muscovite content at 80 - 92m.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
17809	120	122	0.002	
17810	122	124	0.004	0.003
17811	124	126	0.003	
17812	126	128	0.003	
17813	128	130	0.001	0.001
17814	130	132	0.002	
17815	132	134	0.002	
17816	134	136	0.005	0.004
17817	136	138	0.002	
17818	138	140	0.002	
17819	140	142	0.002	
17820	142	144	0.003	
17821	144	146	0.003	
17822	146	148	0.002	
17823	148	150	0.003	

Method: FA50 FA50
Detection Limit: 0.001 0.001

GEOLOGICAL LOG

120 - 136m QUARTZ-MUSCOVITE-CHLORITE SCHIST (META-GREYWACKE)
Dark grey quartz-muscovite + chlorite schist.
Medium grained texture, coarser quartz grains in finer matrix.
Trace to minor pyrite 122 - 136m.

136 - 138m PINK CHERTY ROCK
Cryptocrystalline, pink siliceous rock, possibly tuff?

138 - 150m QUARTZ CHLORITE SCHIST (META-SILTSTONE/SHALE)
Dark grey green quartz-chlorite + muscovite schist.
Irregular surfaces on some chips suggest shearing.
Minor quartz-pyrite veining at 142 - 146m.

Minor quartz-pyrite veining at 148 - 150m.

Analyses by ASSAYCORP PTY LTD

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : RC

NOMINAL COLLAR POSITION
Easting : 744710
Northing : 8483050
Azimuth(Grid) : 45°
Inclination : -60°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : FENTON
PROSPECT : FENTON
HOLE No. : FRC 33
DEPTH : 150m
DRILL DATE: 28/07/94

Proposed by: RDS
Logged by : RDS
Contractor : Gomex
Rig : RCD150
Reason for drilling: Test IP anomaly.
Summary of results :
Comments :

ANALYTICAL DATA					GEOLOGICAL LOG	Water Cut :
Sample NT	from (m)	to (m)	Au ppm	Au ppm		
17824	0	2	0.003	0.003	0 - 8m	WEATHERED CALCAREOUS SILTSTONE
17825	2	4	0.002			
17826	4	6	0.002			
17827	6	8	0.002			
17828	8	10	0.002		8 - 46m	SILTSTONE
17829	10	12	0.001			Red brown siltstone.
17830	12	14	0.001			
17831	14	16	0.001			
17832	16	18	0.001			
17833	18	20	0.001			
17834	20	22	-0.001			
17835	22	24	0.022	0.001		
17836	24	26	0.001			
17837	26	28	0.001			Carbonate vein at 26 - 28m.
17838	28	30	-0.001			
17839	30	32	-0.001	0.001		
17840	32	34	-0.001			
17841	34	36	-0.001			
17842	36	38	-0.001			
17843	38	40	0.001			
17844	40	42	0.002			
17845	42	44	0.002			
17846	44	46	0.003			
17847	46	48	-0.001		46 - 54m	ARENITE/ARKOSE
17848	48	50	0.008	0.007		Red brown clayey matrix supported arenite becoming arkose
17849	50	52	0.004	0.004		towards base.
17850	52	54	0.002			
17851	54	56	0.002		54m	BASE OF CAMBRIAN
17852	56	58	-0.001		54 - 62m	CHERTY ROCK
17853	58	60	0.002			Pinkish grey cherty rock.
17854	60	62	-0.001			Chlorite on fracture surfaces - tuff?
17855	62	64	0.003		62 - 66m	QUARTZ CHLORITE MUSCOVITE SCHIST
17856	64	66	0.001			Dark grey quartz-chlorite-muscovite schist.
17857	66	68	-0.001		66 - 80m	CHERTY ROCK
17858	68	70	0.002			Pinkish grey green cherty rock.
17859	70	72	0.001			
17860	72	74	0.003			
17861	74	76	0.001			
17862	76	78	0.002			
17863	78	80	0.001			
17864	80	82	0.001	0.001	80 - 96m	AMPHIBOLITE
17865	82	84	0.001			Dark grey green amphibole-plagioclase rock, partly
17866	84	86	-0.001			haematitic. Meta-dolerite.
17867	86	88	0.003			
17868	88	90	0.002			
17869	90	92	0.003			
17870	92	94	0.040	0.035		
17871	94	96	0.007	0.006		
17872	96	98	0.003		96 - 120m	QUARTZ-MUSCOVITE-CHLORITE SCHIST
17873	98	100	0.003			Pale grey quartz-muscovite-chlorite schist (meta-siltstone).
17874	100	102	0.005			
17875	102	104	0.008	0.006		
17876	104	106	0.019	0.015		
17877	106	108	0.780	0.079		
17878	108	110	0.008	0.007		
17879	110	112	0.015	0.012		
17880	112	114	0.013			Trace chalcopyrite at 112 - 114m.
17881	114	116	0.009			
17882	116	118	0.018	0.014		
17883	118	120	0.003			Coarse muscovite flakes at 118 - 120m (pegmatitic).

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
17884	120	122	0.011	0.010
17885	122	124	0.003	
17886	124	126	0.005	
17887	126	128	-0.001	
17888	128	130	-0.001	
17889	130	132	0.002	
17890	132	134	0.001	0.001
17891	134	136	0.001	
17892	136	138	0.038	0.038
17893	138	140	0.001	
17894	140	142	-0.001	
17895	142	144	0.001	
17896	144	146	0.001	
17897	146	148	0.004	0.004
17898	148	150	-0.001	

Method:	FA50	FA50
Detection Limit:	0.001	0.001

GEOLOGICAL LOG

120 - 134m QUARTZ-CHLORITE-MUSCOVITE SCHIST
Fine grained textured, dark grey quartz-chlorite (after biotite?) schist.
Minor thin pyrite veinlets and aggregates scattered throughout.
Interval is weakly carbonaceous.

134 - 138m SERICITE ALTERED SCHIST
Pale apple green sericitic schist.
Minor pyrite disseminated throughout.

138 - 142m PEGMATITE
White pegmatite.

142 - 150m QUARTZ-FELDSPAR ROCK
Mottley pale grey/white and green quartz-feldspar rock.
Felsic intrusive or altered schist?
Chlorite on fracture surfaces.
Minor pyrite associated with chlorite.

Analyses by ASSAYCORP PTY LTD

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : RC

NOMINAL COLLAR POSITION
Easting : 744475
Northing : 8482500
Azimuth(Grid) : 90°
Inclination : -60°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : FENTON
PROSPECT : FENTON
HOLE No. : FRC 34
DEPTH : 150m
DRILL DATE: 29/07/94

Proposed by: RDS
Logged by : RDS
Contractor : Gomex
Rig : RCD150
Reason for drilling: Test low resistivity feature.
Summary of results :
Comments :

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
17899	0	2	0.003	
17900	2	4	0.002	
17901	4	6	0.004	
17902	6	8	0.002	
17903	8	10	-0.001	
17904	10	12	-0.001	
17905	12	14	0.003	0.003
17906	14	16	0.002	
17907	16	18	0.002	
17908	18	20	0.003	0.002
17909	20	22	0.001	
17910	22	24	0.001	
17911	24	26	0.001	
17912	26	28	0.002	
17913	28	30	0.001	
17914	30	32	0.001	
17915	32	34	0.002	
17916	34	36	0.002	0.001
17917	36	38	0.001	
17918	38	40	0.002	
17919	40	42	0.001	
17920	42	44	0.002	
17921	44	46	0.002	0.001
17922	46	48	0.002	
17923	48	50	0.001	
17924	50	52	0.002	
17925	52	54	0.002	0.002
17926	54	56	0.001	
17927	56	58	0.001	
17928	58	60	0.002	
17929	60	62	0.002	
17930	62	64	0.002	
17931	64	66	0.003	
17932	66	68	0.004	0.003
17933	68	70	0.002	
17934	70	72	0.006	0.006
17935	72	74	0.007	0.004
17936	74	76	0.003	
17937	76	78	0.003	
17938	78	80	0.003	
17939	80	82	0.001	
17940	82	84	0.001	
17941	84	86	0.002	
17942	86	88	0.002	0.001
17943	88	90	0.002	
17944	90	92	-0.001	
17945	92	94	-0.001	
17946	94	96	-0.001	
17947	96	98	-0.001	
17948	98	100	-0.001	
17949	100	102	0.003	
17950	102	104	0.002	
17951	104	106	0.002	
17952	106	108	0.001	
17953	108	110	0.002	
17954	110	112	0.002	
17955	112	114	0.004	0.004
17956	114	116	0.004	
17957	116	118	0.008	0.009
17958	118	120	0.004	
17959	120	122	0.001	

GEOLOGICAL LOG Water Cut :

0 - 2m Red brown silty soil.

2 - 42m WEATHERED, SILICIFIED CARBONATE
Buff-grey silicified dolomite/dolomitic siltstone.

42 - 48m SILTSTONE
Red brown siltstone.

48 - 62m Red brown mud.

62 - 76m BASAL ARENITE
Red brown fine to medium grained arenite.
Red brown silty matrix.

Quartz and schist fragments at 70 - 76m.

76m BASE OF CAMBRIAN

76 - 150m QUARTZ-CHLORITE-MICA SCHIST/PHYLLITE
Grey-green quartz-chlorite-muscovite schist.
Mildly foliated - fine grained texture (meta-siltstone).
Trace fine disseminated pyrite.

Feldspathic intervals at 90 - 96m (meta-greywacke?).

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
17960	122	124	0.005	0.005
17961	124	126	0.003	
17962	126	128	0.004	0.004
17963	128	130	0.002	
17964	130	132	0.002	
17965	132	134	0.006	
17966	134	136	0.002	
17967	136	138	0.002	
17968	138	140	0.003	
17969	140	142	0.001	
17970	142	144	0.001	
17971	144	146	0.001	
17972	146	148	0.002	0.001
17973	148	150	0.002	

DUPLICATES

19501	16	18	-0.001	
19502	66	68	-0.001	
19503	128	130	0.001	

Method:	FA50	FA50
Detection Limit:	0.001	0.001

GEOLOGICAL LOG

Biotite rich intervals at 124 - 134m.

Pale alteration at 140 - 150m - sericite?

Analyses by ASSAYCORP PTY LTD

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : RC

NOMINAL COLLAR POSITION
Easting : 743750
Northing : 8483000
Azimuth(Grid) : 270°
Inclination : -60°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : FENTON
PROSPECT : FENTON
HOLE No. : FRC 35
DEPTH : 150m
DRILL DATE: 30/07/94

Proposed by: RDS
Logged by : RDS
Contractor : Gomex
Rig : RCD150
Reason for drilling: Gradient Array IP anomaly.
Summary of results :
Comments :

ANALYTICAL DATA					GEOLOGICAL LOG	Water Cut :
Sample NT	from (m)	to (m)	Au ppm	Au ppm		
17974	0	2	0.004	0.003	0 - 14m	WEATHERED DOLOMITIC SILTSTONE
17975	2	4	0.003			
17976	4	6	0.002			
17977	6	8	0.002			
17978	8	10	0.002			
17979	10	12	0.001			
17980	12	14	0.002			
17981	14	16	0.002		14 - 46m	SILTSTONE
17982	16	18	0.002			Red brown siltstone.
17983	18	20	0.002			
17984	20	22	0.002			
17985	22	24	0.001			
17986	24	26	0.002			
17987	26	28	0.001			
17988	28	30	0.001			
17989	30	32	0.001			
17990	32	34	0.002			
17991	34	36	0.003			
17992	36	38	0.002	0.002		
17993	38	40	0.002	0.002		
17994	40	42	0.002	0.002		
17995	42	44	0.001			
17996	44	46	0.029	0.034		
17997	46	48	0.012	0.010	46m	BASE OF CAMBRIAN
17998	48	50	0.001		46 - 50m	QUARTZ-FELDSPAR-BIOTITE (CHLORITE) SCHIST
						Mottley pale grey and grey green schist, fine grained texture. Quartz + pink feldspar + biotite assembly. Biotite partly altered - chlorite.
17999	50	52	0.001		50 - 78m	QUARTZ-MUSCOVITE-CHLORITE SCHIST
18000	52	54	0.001			Dark grey green schist.
18101	54	56	0.001	0.001		Possibly minor tourmaline at 50 - 54m.
18102	56	58	0.001			Some feldspar.
18103	58	60	0.001			Scattered white quartz veining throughout (1%) with trace
18104	60	62	-0.001			pyrite.
18105	62	64	0.003			
18106	64	66	0.001			
18107	66	68	0.003			
18108	68	70	0.030	0.340		
18109	70	72	0.014	0.014		
18110	72	74	0.005			
18111	74	76	0.002			Weak sericitic alteration at 74 - 80m.
18112	76	78	0.002			
18113	78	80	0.002		78 - 102m	QUARTZ-CHLORITE-GRAPHITE SCHIST
18114	80	82	0.001			Very dark grey-black quartz-chlorite schist.
18115	82	84	0.003			Minor muscovite.
18116	84	86	0.002			Graphite evident in wet samples.
18117	86	88	0.001			
18118	88	90	-0.001	0.001		
18119	90	92	0.002			
18120	92	94	0.007			Sericite alteration at 92 - 94m.
18121	94	96	0.004	0.004		Minor silicification and disseminated pyrite at 94 - 98m.
18122	96	98	0.002			Glass shards? at 96 - 100m in tuffaceous? greywacke?
18123	98	100	0.002			
18124	100	102	0.022	0.026		
18125	102	104	0.012	0.016	102 - 150m	QUARTZ-CHLORITE-MICA PHYLLITE
18126	104	106	0.091	0.090		Trace pyrite.
18127	106	108	0.010	0.011		Some graphite.
18128	108	110	0.019	0.018		
18129	110	112	0.001			
18130	112	114	0.003	0.004		
18131	114	116	0.006			

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
18132	116	118	0.010	0.012
18133	118	120	0.006	
18134	120	122	0.002	0.002
18135	122	124	0.001	
18136	124	126	0.002	
18137	126	128	0.004	
18138	128	130	0.004	
18139	130	132	0.004	
18140	132	134	0.003	
18141	134	136	0.004	
18142	136	138	0.005	
18143	138	140	0.006	0.007
18144	140	142	0.005	
18145	142	144	0.004	0.004
DUPLICATES				
18146	48	50	0.003	
18147	104	106	0.085	0.091
Method:			FA50	FA50
Detection Limit:			0.001	0.001

GEOLOGICAL LOG

Quartz and pyrite veins at 126 - 130m.

Analyses by ASSAYCORP PTY LTD

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : RC

NOMINAL COLLAR POSITION

Easting	:	744800
Northing	:	8483000
Azimuth(Grid)	:	70°
Inclination	:	-60°
Reduced Level	:	

SURVEYED COLLAR POSITION

Easting	:
Northing	:
Azimuth(grid)	:
Inclination	:
Reduced Level	:
Surveyed by	:

PROJECT : FENTON
PROSPECT : FENTON
HOLE No. : FRC 36
DEPTH : 150m
DRILL DATE: 31/07/94

Proposed by: RDS
Logged by : RDS
Contractor : Gomex
Rig : RCD150
Reason for drilling: Test IP anomaly.
Summary of results :
Comments :

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
18148	0	2	0.002	
18149	2	4	0.001	
18150	4	6	0.001	
18151	6	8	0.001	
18152	8	10	0.004	0.005
18153	10	12	0.002	
18154	12	14	0.002	0.002
18155	14	16	0.002	
18156	16	18	0.001	
18157	18	20	0.002	
18158	20	22	0.003	
18159	22	24	0.002	
18160	24	26	0.002	0.002
18161	26	28	0.002	
18162	28	30	0.002	
18163	30	32	0.003	
18164	32	34	0.002	
18165	34	36	0.001	
18166	36	38	0.002	
18167	38	40	0.003	
18168	40	42	0.002	0.002
18169	42	44	0.004	0.003
18170	44	46	0.002	
18171	46	48	0.002	
18172	48	50	0.006	
18173	50	52	0.009	0.011
18174	52	54	0.004	
18175	54	56	0.002	
18176	56	58	0.009	
18177	58	60	0.019	0.020
18178	60	62	0.061	0.062
18179	62	64	0.029	0.026
18180	64	66	0.002	
18181	66	68	0.001	
18182	68	70	0.001	
18183	70	72	0.006	0.005
18184	72	74	0.004	
18185	74	76	0.004	
18186	76	78	0.003	
18187	78	80	0.002	
18188	80	82	0.004	
18189	82	84	0.005	
18190	84	86	0.004	
18191	86	88	0.007	
18192	88	90	0.004	
18193	90	92	0.003	
18194	92	94	0.002	
18195	94	96	0.003	0.002
18196	96	98	0.003	
18197	98	100	0.006	
18198	100	102	0.028	0.030
18199	102	104	0.028	0.022
18200	104	106	0.005	
18201	106	108	0.011	0.011
18202	108	110	0.055	0.007
18203	110	112	0.015	0.016
18204	112	114	0.050	0.043
18205	114	116	0.063	0.058
18206	116	118	0.035	0.029
18207	118	120	0.016	

GEOLOGICAL LOG Water Cut :

0 - 12m WEATHERED DOLOMITE SILTSTONE

Grey-buff silicified dolomitic siltstone.

12 - 48m SILTSTONE
Red brown siltstone.

48 - 54m ARENITE/ARKOSE
Friable matrix supported medium grained granite becoming arkosic towards base.

54m BASE OF CAMBRIAN

54 - 70m WEATHERED/ALTERED AMPHIBOLITE
Pale grey green clay altered amphibolite.

70 - 114m FINE GRAINED QUARTZ PHYLLITE/CHERT
Grey-green very fine grained siliceous phyllite.
Cherty appearance.

114 - 120m FELSIC DYKE?
Pink fine to medium grained granite dyke.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
18208	120	122	0.023	
18209	122	124	0.064	0.063
18210	124	126	0.004	0.002
18211	126	128	0.004	
18212	128	130	0.003	
18213	130	132	0.003	
18214	132	134	0.003	
18215	134	136	0.002	
18216	136	138	0.002	
18217	138	140	0.002	
18218	140	142	0.002	
18219	142	144	0.003	0.003
18220	144	146	0.002	
18221	146	148	0.002	0.002
18222	148	150	0.005	
DUPLICATES				
18224	54	56	0.003	
18223	118	120	0.014	0.015
Method:			FA50	FA50
Detection Limit:			0.001	0.001

GEOLOGICAL LOG

120 - 150m FINE GRAINED QUARTZ-CHLORITE PHYLLITE/CHERT?
Dark grey green, very fine grained siliceous rock and quartz chlorite schist/phyllite.
Possibly meta-shale or ?

Pale green alteration (sericite?) at 132 - 136m.

Minor quartz + pyrite veining at 136 - 144m.

Pale green alteration (sericite?) at 148 - 150m.

Analyses by ASSAYCORP PTY LTD

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : RC

NOMINAL COLLAR POSITION
Easting : 741750
Northing : 8485500
Azimuth(Grid) : 270°
Inclination : -70°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : FENTON
PROSPECT : FENTON
HOLE No. : FRC 37
DEPTH : 166m
DRILL DATE: 01/08/94

Proposed by: RDS
Logged by : RDS
Contractor : Gomex
Rig : RCD150
Reason for drilling: Test Dipole/Dipole IP anomaly.
Summary of results :
Comments : 150 - 166m not logged.

ANALYTICAL DATA					GEOLOGICAL LOG	Water Cut :
Sample NT	from (m)	to (m)	Au ppm	Au ppm		
18225	0	2	0.003		0 - 4m	RED-BROWN SILTSTONE
18226	2	4	0.002			
18227	4	6	0.001		4 - 24m	DOLOMITE/DOLOMITIC SILTSTONE
18228	6	8	0.001			Dark grey and buff carbonate.
18229	8	10	0.001			
18230	10	12	0.001			
18231	12	14	0.001			
18232	14	16	-0.001			
18233	16	18	-0.001			
18234	18	20	0.001			
18235	20	22	0.001			
18236	22	24	0.002	0.001		
18237	24	26	0.001		24 - 48m	SILTSTONE
18238	26	28	0.001			Red brown siltstone.
18239	28	30	0.002			
18240	30	32	0.001	0.001		
18241	32	34	0.001			
18242	34	36	0.002			
18243	36	38	0.001			Interbedded grey carbonate at 36 - 40m.
18244	38	40	0.001			
18245	40	42	0.001			
18246	42	44	0.002			
18247	44	46	0.002			
18248	46	48	0.002			
18249	48	50	0.001		48 - 56m	ARENITE
18250	50	52	0.001			Red brown clay matrix supported arenite.
18251	52	54	0.003			
18252	54	56	0.006			
18253	56	58	0.065	0.071	56m	BASE OF CAMBRIAN
18254	58	60	0.008		56 - 68m	QUARTZ-MUSCOVITE PHYLLITE
18255	60	62	0.003			Pale greey quartz phyllite.
18256	62	64	0.004			Fine muscovite on weakly developed foliation surfaces.
18257	64	66	0.002			Fine grained arenite appearance.
18258	66	68	0.002			Minor quartz veining at 66 - 68m.
						Haematite at 64 - 68m.
18259	68	70	0.012	0.015	68 - 72m	META-GREYWACKE
18260	70	72	0.002			Earthy brown medium grained greywacke.
						Scattered coarse grained (2 - 3mm) "? " quartz grains
						(volcanolithic) in haematitic matrix.
18261	72	74	0.205	0.220	72 - 84m	PINK CHERTY ROCK
18262	74	76	0.050			Very fine grained pinkish rock.
18263	76	78	0.027			Quartz + feldspar + chlorite.
18264	78	80	0.010			Occasional fine dark acicular mineral - tourmaline?
18265	80	82	0.031	0.033		
18266	82	84	0.745	0.795		
18267	84	86	0.120	0.140	84 - 104m	META-GREYWACKE
18268	86	88	0.028			Olive green medium grained greywacke.
18269	88	90	0.021			Abundant coarser (2 - 3mm) quartz and feldspar grains.
18270	90	92	0.160			Trace disseminated pyrite.
18271	92	94	0.058			
18272	94	96	0.037			
18273	96	98	0.025	0.025		
18274	98	100	0.047	0.058		
18275	100	102	0.007	0.010		Chloritised at 100 - 104m.
18276	102	104	0.047	0.048		
18277	104	106	0.060	0.060	104 - 106m	QUARTZ-PYRITE ZONE
						Abundant quartz + pyrite in graphitic shear zone.
						Trace arsenopyrite.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
18278	106	108	0.210	0.225
18279	108	110	0.007	
18280	110	112	0.009	
18281	112	114	0.010	0.011
18282	114	116	0.008	
18283	116	118	0.009	
18284	118	120	0.004	
18285	120	122	0.027	0.030
18286	122	124	0.006	0.007
18287	124	126	0.005	
18288	126	128	0.003	
18289	128	130	0.027	
18290	130	132	0.008	
18291	132	134	0.008	
18292	134	136	0.011	0.012
18293	136	138	0.036	0.040
18294	138	140	0.010	0.010
18295	140	142	0.005	
18296	142	144	0.005	
18297	144	146	0.006	
18298	146	148	0.004	
18299	148	150	0.010	0.008
18300	150	152	0.003	
18301	152	154	0.025	
18302	154	156	0.009	
18303	156	158	0.013	0.015
18304	158	160	0.018	0.016
18305	160	162	0.012	0.013
18306	162	164	0.009	
18307	164	166	0.008	
DUPLICATES				
18308	58	60	0.006	
18309	116	118	0.009	
18310	156	158	0.010	0.014
Method:			FA50	FA50
Detection Limit:			0.001	0.001

GEOLOGICAL LOG

106 - 118m CHERT?/PHYLLITE
Pink and dark grey cryptocrystalline rock.
Quartz-chlorite phyllite/chert?

118 - 122m META-GREYWACKE
Dark grey, medium grained, weakly foliated greywacke.

122 - 142m CHLORITIC PHYLLITE/SILTSTONE
Thin apricot albite? veins with fine arsenopyrite at 122 - 124m.
Greywacke at 128 - 130m.
Trace pyrite throughout.

Pinkish alteration at 140 - 144m (albite?).

142 - 148m META-GREYWACKE
Dark grey, weakly foliated greywacke.

148 - 166m PHYLLITE
Dark grey-green very fine grained quartz rich meta-aplite.
Mildly foliated.
Meta-siltstone/shale.
Trace pyrite throughout.

Analyses by ASSAYCORP PTY LTD

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : RC

NOMINAL COLLAR POSITION
Easting : 743150
Northing : 8484300
Azimuth(Grid) : 270°
Inclination : -70°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : FENTON
PROSPECT : FENTON
HOLE No. : FRC 38
DEPTH : 150m
DRILL DATE: 02/08/94

Proposed by: RDS
Logged by : RDS
Contractor : Gomex
Rig : RCD150
Reason for drilling: Test mag/anomaly.
Summary of results :
Comments :

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
18311	0	2	0.004	
18312	2	4	0.001	
18313	4	6	0.001	
18314	6	8	0.001	
18315	8	10	0.001	
18316	10	12	0.001	0.002
18317	12	14	0.001	
18318	14	16	-0.001	
18319	16	18	-0.001	0.001
18320	18	20	-0.001	
18321	20	22	0.002	
18322	22	24	0.001	
18323	24	26	0.001	
18324	26	28	0.001	
18325	28	30	0.002	
18326	30	32	0.002	
18327	32	34	0.002	
18328	34	36	0.001	
18329	36	38	0.009	0.009
18330	38	40	0.002	
18331	40	42	0.001	
18332	42	44	-0.001	
18333	44	46	-0.001	
18334	46	48	-0.001	
18335	48	50	-0.001	
18336	50	52	-0.001	
18337	52	54	-0.001	
18338	54	56	-0.001	
18339	56	58	-0.001	
18340	58	60	-0.001	
18341	60	62	-0.001	
18342	62	64	0.001	
18343	64	66	0.003	0.005
18344	66	68	-0.001	
18345	68	70	-0.001	
18346	70	72	-0.001	
18347	72	74	0.001	
18348	74	76	0.001	
18349	76	78	-0.001	
18350	78	80	0.011	0.009
18351	80	82	0.046	0.042
18352	82	84	0.033	0.040
18353	84	86	0.001	
18354	86	88	0.001	
18355	88	90	0.002	
18356	90	92	0.001	
18357	92	94	0.001	
18358	94	96	0.001	
18359	96	98	0.003	
18360	98	100	0.010	0.009
18361	100	102	0.005	
18362	102	104	0.003	0.003
18363	104	106	0.002	
18364	106	108	0.004	0.004
18365	108	110	0.001	
18366	110	112	0.004	0.003
18367	112	114	0.013	0.011
18368	114	116	0.002	

GEOLOGICAL LOG Water Cut :

0 - 30m RED-BROWN SILTSTONE

30 - 40m ARENITE
Red-brown clayey matrix supported arenite.

40m BASE OF CAMBRIAN
40 - 66m META-GREYWACKE
Foliated chloritic greywacke, fine to medium grained.
Some coarser quartz grains.

66 - 92m QUARTZ-MUSCOVITE-CHLORITE SCHIST
Mottley grey green/earthy red quartz-chlorite-muscovite ± haematite schist.

Abundant quartz veining at 84 - 86m.

92 - 98m META-GREYWACKE
Mottley dark grey/green, weakly foliated chloritic greywacke, fine to medium grained.

98 - 116m QUARTZ-MUSCOVITE-CHLORITE SCHIST
Mildly haematitic.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
18369	116	118	0.003	
18370	118	120	0.003	0.003
18371	120	122	0.004	
18372	122	124	0.018	0.017
18373	124	126	0.081	0.096
18374	126	128	0.015	0.013
18375	128	130	0.003	
18376	130	132	0.009	
18377	132	134	0.002	
18378	134	136	0.004	
18379	136	138	0.002	
18380	138	140	0.005	
18381	140	142	0.005	
18382	142	144	0.004	
18383	144	146	0.005	0.007
18384	146	148	0.001	
18385	148	150	0.003	0.005

DUPLICATES

18386	48	50	0.001	
18387	114	116	0.001	

Method:	FA50	FA50
Detection Limit:	0.001	0.001

Analyses by ASSAYCORP PTY LTD

GEOLOGICAL LOG

116 - 126m META-GREYWACKE
Pale grey greywacke.
Weakly foliated.

126 - 130m QUARTZ-MUSCOVITE-CHLORITE SCHIST

130 - 150m META-GREYWACKE
Pale grey weakly foliated greywacke.

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : RC

NOMINAL COLLAR POSITION
Easting : 743000
Northing : 8484500
Azimuth(Grid) : 90°
Inclination : -60°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : FENTON
PROSPECT : FENTON
HOLE No. : FRC 39
DEPTH : 150m
DRILL DATE: 02/08/94

Proposed by: RDS
Logged by : RDS
Contractor : Gomex Rig : RCD150
Reason for drilling: Test sulphide body associated with mag/IP.
Summary of results :
Comments :

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
18388	0	2	0.002	
18389	2	4	0.001	
18390	4	6	0.001	
18391	6	8	0.001	
18392	8	10	0.002	
18393	10	12	0.001	
18394	12	14	0.001	
18395	14	16	0.001	
18396	16	18	0.002	0.002
18397	18	20	0.002	
18398	20	22	0.001	0.001
18399	22	24	0.001	
18400	24	26	0.002	
18401	26	28	0.001	
18402	28	30	0.001	
18403	30	32	0.002	
18404	32	34	0.001	
18405	34	36	0.002	
18406	36	38	0.001	
18407	38	40	0.002	
18408	40	42	0.003	0.002
18409	42	44	0.003	
18410	44	46	0.005	0.003
18411	46	48	0.004	0.003
18412	48	50	0.003	
18413	50	52	0.002	
18414	52	54	0.002	0.002
18415	54	56	0.003	0.002
18416	56	58	0.001	
18417	58	60	0.001	
18418	60	62	0.001	
18419	62	64	0.002	
18420	64	66	0.001	
18421	66	68	0.001	
18422	68	70	0.001	
18423	70	72	0.001	
18424	72	74	0.001	
18425	74	76	0.001	0.001
18426	76	78	0.002	
18427	78	80	0.001	
18428	80	82	0.001	
18429	82	84	0.001	0.001
18430	84	86	0.001	
18431	86	88	0.002	
18432	88	90	0.003	
18433	90	92	0.002	
18434	92	94	0.002	
18435	94	96	0.002	
18436	96	98	0.001	
18437	98	100	0.002	
18438	100	102	0.002	
18439	102	104	0.002	
18440	104	106	0.001	
18441	106	108	0.002	
18442	108	110	0.003	
18443	110	112	0.004	0.004
18444	112	114	0.009	
18445	114	116	0.004	
18446	116	118	0.007	
18447	118	120	0.004	

GEOLOGICAL LOG Water Cut :

0 - 36m RED-BROWN SILTSTONE

36 - 50m ARENITE/ARKOSE
Red brown medium grained clayey matrix supported arenite becoming arkosic at base.

50m BASE OF CAMBRIAN

50 - 80m QUARTZ-MUSCOVITE SCHIST/PHYLLITE

Minor quartz at 74 - 80m.

Chloritic at 78 - 80m.

80 - 90m QUARTZ-CHLORITE-FELDSPAR SCHIST (META-GREYWACKE)
Pale green chloritic schist.
Coarser quartz and feldspar fragments within finer chloritic matrix.
Smokey volcanic? quartz grains.
Haematitic and sericitic at 86 - 93m.

90 - 120m CHLORITE MUSCOVITE SCHIST/PHYLLITE
Grey-green chloritic phyllite/schist.
Increase in chlorite towards base.
Quartz veining at 96 - 100m.
Mildly haematitic throughout.
Very thin (1mm) fractures and quartz at 102 - 104m.
Sericitic alteration at 102 - 104m.

Increase in shearing and quartz veining at 114 - 116m.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
18448	120	122	0.003	
18449	122	124	0.002	
18450	124	126	0.002	
18451	126	128	0.003	
18452	128	130	0.020	
18453	130	132	0.255	0.230
18454	132	134	0.110	0.140
18455	134	136	0.032	0.031
18456	136	138	0.022	
18457	138	140	0.051	
18458	140	142	0.460	0.440
18459	142	144	0.595	0.580
18460	144	146	0.059	
18461	146	148	0.015	
18462	148	150	0.022	0.018
DUPLICATES				
18463	50	52	0.001	0.001
18464	126	128	0.002	
Method:			FA50	FA50
Detection Limit:			0.001	0.001

GEOLOGICAL LOG

120 - 126m CHLORITIC META-GREYWACKE

Dark grey green quartz-chlorite-mica schist after greywacke.
Coarser (1 - 2mm) quartz and feldspar grains scattered throughout.
Minor quartz veining.

126 - 150m CHLORITIC PHYLLITE

Dark grey-green chloritic phyllite.
Minor quartz and pyrite from 130m onwards, particularly on more sericitic fragments.

Mild silicification + sericite from 140 - 150m.
Abundant quartz and pyrite at 142 - 144m.

Analyses by ASSAYCORP PTY LTD

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : RC

NOMINAL COLLAR POSITION
Easting : 743400
Northing : 8485000
Azimuth(Grid) : 90°
Inclination : -70°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : FENTON
PROSPECT : FENTON
HOLE No. : FRC 40
DEPTH : 150m
DRILL DATE: 03/08/94

Proposed by: RDS
Logged by : RDS
Contractor : Gomex
Rig : RCD150
Reason for drilling: Gradient Array IP anomaly.
Summary of results :
Comments :

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
18465	0	2	0.002	
18466	2	4	0.005	
18467	4	6	0.003	
18468	6	8	0.002	0.003
18469	8	10	0.002	
18470	10	12	0.002	
18471	12	14	0.001	
18472	14	16	0.001	
18473	16	18	0.001	
18474	18	20	0.001	
18475	20	22	0.002	
18476	22	24	0.001	
18477	24	26	0.001	
18478	26	28	0.001	
18479	28	30	0.002	
18480	30	32	-0.001	
18481	32	34	0.004	
18482	34	36	0.003	
18483	36	38	0.002	
18484	38	40	0.003	
18485	40	42	0.001	0.001
18486	42	44	0.003	
18487	44	46	0.003	
18488	46	48	0.007	0.005
18489	48	50	0.004	
18490	50	52	0.001	
18491	52	54	0.002	0.001
18492	54	56	0.002	
18493	56	58	0.002	
18494	58	60	0.004	
18495	60	62	0.002	
18496	62	64	0.002	
18497	64	66	0.019	0.012
18498	66	68	0.028	0.022
18499	68	70	0.004	
18500	70	72	0.003	
18501	72	74	0.002	
18502	74	76	0.002	
18503	76	78	0.001	
18504	78	80	0.002	
18505	80	82	0.002	0.002
18506	82	84	0.011	0.009
18507	84	86	0.001	
18508	86	88	0.052	0.046
18509	88	90	0.020	0.014
18510	90	92	0.002	
18511	92	94	0.002	
18512	94	96	0.005	
18513	96	98	0.006	0.005
18514	98	100	0.002	
18515	100	102	0.001	
18516	102	104	0.003	
18517	104	106	0.011	0.009
18518	106	108	0.004	0.005
18519	108	110	-0.001	

GEOLOGICAL LOG Water Cut :

0 - 14m BASAL ARENITE/ARKOSE
Yellow brown clayey arenite, fine to medium grained.
Weathered schist and haematitic quartz fragments towards base.

14m BASE OF CAMBRIAN

14 - 48m AMPHIBOLITE
Dominantly dark green amphibole + quartz?
Garnet noted in some chips.

48 - 52m QUARTZITE/ARENITE
Pale grey-green, fine grained arenite/quartzite with minor muscovite.

52 - 62m QUARTZ-MUSCOVITE-CHLORITE SCHIST
Dark grey quartz-muscovite-chlorite schist.
Feldspathic at 52 - 56m.
Chlorite on fracture shear surfaces.
(Meta-siltstone/shale).

62 - 108m QUARTZ-CHLORITE-MUSCOVITE SCHIST
Grey-green quartz-chlorite schist.
Coarser quartz (2 - 3mm) grains suggest a poorly sorted arenite/greywacke.
Abundant quartz veining at 64 - 66m.
Disseminated haematite throughout.

Abundant quartz at 86 - 88m.

108 - 110m PINK CHERTY ROCK
Pink apricot very fine grained quartz + feldspar? rock.
Cherty appearance.
Small chlorite aggregates (1 - 2mm) scattered throughout.
Minor disseminated pyrite.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppm	Au ppm
18520	110	112	-0.001	
18521	112	114	-0.001	
18522	114	116	-0.001	
18523	116	118	-0.001	0.001
18524	118	120	0.002	
18525	120	122	0.001	
18526	122	124	0.002	
18527	124	126	0.005	0.003
18528	126	128	-0.001	
18529	128	130	-0.001	
18530	130	132	0.006	0.004
18531	132	134	0.014	0.012
18532	134	136	0.022	0.013
18533	136	138	-0.001	
18534	138	140	0.006	
18535	140	142	0.018	0.018
18536	142	144	0.004	0.005
18537	144	146	-0.001	
18538	146	148	0.001	
18539	148	150	-0.001	
DUPLICATES				
18540	48	50	-0.001	
18541	120	122	0.003	0.002
Method:			FA50	FA50
Detection Limit:			0.001	0.001

GEOLOGICAL LOG

110 - 118m QUARTZ-MUSCOVITE-CHLORITE SCHIST

Dark grey-green quartz-muscovite-chlorite schist (meta-pelite).
Finer texture than 62 - 108m interval.
Grades into arenite at base.
Trace pyrite.

118 - 132m FINE GRAINED QUARTZ-FELDSPAR-BIOTITE QUARTZITE?

Pinksih red fine grained rock.
Very fine quartzite texture.
Quartz-feldspar-biotite hornfels?

132 - 136m HAEMATITIC FELDSPATHIC ARENITE

Fine grained pinkish red haematite quartz + feldspar? rock.
Minor disseminated pyrite.

136 - 140m QUARTZ-MUSCOVITE SCHIST/QUARTZ-FELDSPAR HORNFELS

Very fine grained quartz + feldspar rock, possibly hornfels?
"Interbedded" with quartz-muscovite schist.

140 - 150m PINK CHERTY ROCK

Very fine grained quartz + feldspar? + minor chlorite rock.
Trace disseminated pyrite.
Becomes dark grey and chloritic from 144 - 150m.
Very fine grained quartzite or tuff?

Analyses by ASSAYCORP PTY LTD

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : RC

NOMINAL COLLAR POSITION
Easting : 744250
Northing : 8483000
Azimuth(Grid) : 270°
Inclination : -60°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : PINE CREEK GOLD
PROSPECT : FENTON
HOLE No. : FRC 41
DEPTH : 94m
DRILL DATE: 17/10/94

Proposed by: TGH
Logged by : AMH
Contractor : Gorey & Cole Rig : Warman 1000
Reason for drilling: IP resistivity anomaly (high).
Summary of results : Thickening of Cambrian sequence.
Comments : Some water from 30m.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppb	Pb ppm
22846	0	2	-1	
22847	2	4	-1	
22848	4	6	-1	
22849	6	8	-1	
22850	8	10	-1	
22851	10	12	-1	
22852	12	14	-1	
22853	14	16	-1	
22854	16	18	-1	
22855	18	20	7	
22856	20	22	6	
22857	22	24	4	
22858	24	26	2	
22859	26	28	-1	
22860	28	30	-1	
22861	30	32	-1	
22862	32	34	-1	
22863	34	36	-1	
22864	36	38	-1	
22865	38	40	-1	
22866	40	42	-1	
22867	42	44	-1	
22868	44	46	1	
22869	46	48	-1	
22870	48	50	-1	
22871	50	52	-1	
22872	52	54	-1	
22873	54	56	-1	
22874	56	58	-1	
22875	58	60	-1	
22876	60	62	-1	
22877	62	64	3	
22878	64	66	-1	
22879	66	68	-1	
22880	68	70	-1	
22881	70	72	5	
22882	72	74	-1	
22883	74	76	-1	
22884	76	78	-1	
22885	78	80	-1	
22886	80	82	-1	
22887	82	84	-1	
22888	84	86	-1	
22889	86	88	-1	
22890	88	90	-1	
22891	90	92	-1	
22892	92	94	-1	
Method:			FA3	AA1
Detection Limit:			1	4

GEOLOGICAL LOG Water Cut :

SUMMARY LOG

0 - 8m	Red and yellow clay.
8 - 20m	Green-grey and red saprolitic clays.
20 - 42m	Pink dolomitic siltstone.
42 - 78m	Red-brown calcareous mudstone (base of Cambrian).
78 - 94m	Green and red quartz-muscovite-chlorite schist.

0 - 2m	Red clay, white silcrete.
2 - 4m	Brown clay, siliceous ferruginous and chert pebbles.
4 - 6m	Yellow clay, rare chert.
6 - 8m	As above.
8 - 10m	Green-grey and red clay. (Weathered siltstone).
10 - 12m	As above.
12 - 14m	As above.
14 - 16m	As above.
16 - 18m	As above.
18 - 20m	Red clay, red siltstone.
20 - 22m	Red calcareous siltstone, pink-grey silty limestone.
22 - 24m	Pink and grey silty limestone/dolomite.
24 - 26m	As above.
26 - 28m	As above.
28 - 30m	As above.
30 - 32m	Pink dolomitic siltstone.
32 - 34m	Pink dolomitic siltstone, rare black chert.
34 - 36m	Red silty dolomite, common black chert.
36 - 38m	Red-brown calcareous siltstone.
38 - 40m	As above.
40 - 42m	Grey to purple haematitic calcareous mudstone.
42 - 44m	Red-brown haematitic calcareous mudstone, rare black calcareous mudstone.
44 - 46m	As above.
46 - 48m	As above.
48 - 50m	As above.
50 - 52m	As above.
52 - 54m	As above.
54 - 56m	As above.
56 - 58m	As above.
58 - 60m	Brown calcareous mudstone.
60 - 62m	As above.
62 - 64m	As above.
64 - 66m	As above.
66 - 68m	As above.
68 - 70m	As above.
70 - 72m	As above.
72 - 74m	As above.
74 - 76m	Brown calcareous mudstone (mostly clay).
76 - 78m	Conglomerate - brown calcareous mudstone, matrix, quartz, schist, chert clasts.
78 - 80m	Dark green or red oxidised quartz-muscovite-chlorite schist.
80 - 82m	As above.
82 - 84m	As above.
84 - 86m	As above.
86 - 88m	Fine grained dark green quartz-feldspar-chlorite.
88 - 90m	Green-grey quartz-muscovite-chlorite schist.
90 - 92m	As above.
92 - 94m	As above.

Analyses by AMDEL LABORATORIES LIMITED

ANALYTICAL DATA

GEOLOGICAL LOG

Sample NT	from (m)	to (m)	Au ppb	Pb ppm
DUPLICATES				
22893	18	20	-1	
22894	38	40	-1	
22895	58	60	-1	
22896	78	80	-1	

Method:	FA3	AA1
Detection Limit:	1	4

Analyses by AMDEL LABORATORIES LIMITED

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : RC

NOMINAL COLLAR POSITION
Easting : 743080
Northing : 8483000
Azimuth(Grid) : 270°
Inclination : -60°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : PINE CREEK GOLD
PROSPECT : FENTON
HOLE No. : FRC 42
DEPTH : 94m
DRILL DATE: 22/10/94

Proposed by: TGH
Logged by : AMH
Contractor : Gorey & Cole
Rig : Warman 1000
Reason for drilling: Resistivity high.
Summary of results :
Comments :

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppb	Pb ppm
22969	0	2	1	69
22970	2	4	2	140
22971	4	6	-1	36
22972	6	8	-1	15
22973	8	10	-1	10
22974	10	12	-1	12
22975	12	14	1	12
22976	14	16	1	9
22977	16	18	-1	8
22978	18	20	1	16
22979	20	22	1	12
22980	22	24	1	14
22981	24	26	-1	12
22982	26	28	1	9
22983	28	30	-1	9
22984	30	32	-1	8
22985	32	34	1	7
22986	34	36	1	6
22987	36	38	2	10
22988	38	40	1	11
22989	40	42	1	9
22990	42	44	1	6
22991	44	46	-1	7
22992	46	48	1	8
22993	48	50	1	8
22994	50	52	-1	10
22995	52	54	1	11
22996	54	56	2	13
22997	56	58	2	20
22998	58	60	1	13
22999	60	62	5	9
23000	62	64	1	4
23001	64	66	1	51
23002	66	68	-1	55
23003	68	70	-1	18
23004	70	72	-1	13
23005	72	74	-1	19
23006	74	76	1	23
23007	76	78	-1	42
23008	78	80	-1	19
23009	80	82	1	15
23010	82	84	-1	26
23011	84	86	-1	38

GEOLOGICAL LOG Water Cut :

SUMMARY LOG

0 - 4m	Red brown clay.
4 - 18m	Grey and yellow limestone.
18 - 62m	Brown calcareous mudstone.
62 - 76m	Dark green chloritic quartz-feldspar-tourmaline schist ± muscovite, biotite, rare pyrite.
76 - 78m	Felsic dyke.
78 - 92m	Dark green and brown foliated fine to medium meta-arenite, rare quartz veining.
92 - 94m	Grey fine grained siliceous rock with quartz feldspar phenocrysts - possibly felsic dyke/volcanic?

0 - 2m	Red-brown clay.
2 - 4m	As above.
4 - 6m	Grey limestone, minor red siltstone.
6 - 8m	As above.
8 - 10m	As above.
10 - 12m	Yellow oxidised silty limestone, black manganese nodules.
12 - 14m	Grey limestone, some yellow oxidation, calcite veining, manganese nodules.
14 - 16m	Grey limestone, some yellow oxidation, calcite veining.
16 - 18m	As above.
18 - 20m	Green and purple calcareous mudstone, yellow limestone.
20 - 22m	Dark grey and pink calcareous siltstone.
22 - 24m	Pink calcareous mudstone, minor black chert.
24 - 26m	Brown calcareous mudstone.
26 - 28m	Brown calcareous mudstone, rare calcite veining.
28 - 30m	Brown calcareous mudstone.
30 - 32m	As above.
32 - 34m	As above.
34 - 36m	As above.
36 - 38m	Brown calcareous mudstone, some grey calcareous mudstone.
38 - 40m	Brown calcareous mudstone.
40 - 42m	As above.
42 - 44m	As above.
44 - 46m	As above.
46 - 48m	As above.
48 - 50m	As above.
50 - 52m	As above.
52 - 54m	As above.
54 - 56m	As above.
56 - 58m	Brown calcareous mudstone (red-brown clay).
58 - 60m	Red brown clay.
60 - 62m	Red brown clay (base of Cambrian).
62 - 64m	Green quartz-feldspar-muscovite-tourmaline schist, rare pyrite.
64 - 66m	As above.
66 - 68m	As above, slightly coarser grained.
68 - 70m	As above.
70 - 72m	As above.
72 - 74m	As above.
74 - 76m	As above, rare quartz-tourmaline veins.
76 - 78m	Pale green/orange fine grained felsic dyke, rare quartz vein.
78 - 80m	Green/brown quartz-feldspar-muscovite/sericite schist.
80 - 82m	Green and brown foliated fine to medium meta-arenite, rare quartz vein.
82 - 84m	Green and brown foliated fine to medium meta-arenite, rare quartz vein, quartz and feldspar grains/phenocrysts?
84 - 86m	As above.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppb	Pb ppm
23012	86	88	-1	19
23013	88	90	1	30
23014	90	92	-1	49
23015	92	94	-1	32
DUPLICATES				
23016	18	20	-1	20
23017	38	40	-1	6
23018	78	80	-1	13

Method:	FA3	AA1
Detection Limit:	1	4

GEOLOGICAL LOG

86 - 88m As above, some finer quartz-muscovite-feldspar schist.
88 - 90m As above.
90 - 92m As above, dark brown to black, more siliceous.
92 - 94m Grey fine grained siliceous rock, quartz and feldspar phenocrysts - possibly felsic dyke/volcanic?

Analyses by AMDEL LABORATORIES LIMITED

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : RC

NOMINAL COLLAR POSITION
Easting : 743350
Northing : 8482000
Azimuth(Grid) : 90°
Inclination : -60°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : PINE CREEK GOLD
PROSPECT : FENTON
HOLE No. : FRC 43
DEPTH : 102m
DRILL DATE: 23/10/94

Proposed by: TGH
Logged by : AMH
Contractor : Gorey & Cole Rig : Warman 1000
Reason for drilling: Resistivity anomaly, mag linear, slight chargeability anomaly.
Summary of results :
Comments :

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppb	Pb ppm
23019	0	2	-1	68
23020	2	4	-1	24
23021	4	6	-1	49
23022	6	8	-1	30
23023	8	10	-1	17
23024	10	12	-1	10
23025	12	14	-1	8
23026	14	16	-1	15
23027	16	18	-1	10
23028	18	20	-1	11
23029	20	22	-1	10
23030	22	24	-1	8
23031	24	26	-1	17
23032	26	28	-1	11
23033	28	30	-1	11
23034	30	32	-1	12
23035	32	34	-1	11
23036	34	36	-1	8
23037	36	38	-1	5
23038	38	40	-1	7
23039	40	42	-1	7
23040	42	44	-1	7
23041	44	46	-1	5
23042	46	48	-1	5
23043	48	50	-1	4
23044	50	52	-1	-4
23045	52	54	2	-4
23046	54	56	-1	-4
23047	56	58	-1	6
23048	58	60	1	7
23049	60	62	243	4
23050	62	64	10	4
23051	64	66	1	6
23052	66	68	-1	-4
23053	68	70	-1	4
23054	70	72	-1	6
23055	72	74	-1	4
23056	74	76	1	6
23057	76	78	-1	4
23058	78	80	-1	4
23059	80	82	-1	5
23060	82	84	-1	4
23061	84	86	-1	7

GEOLOGICAL LOG Water Cut :

SUMMARY LOG

0 - 4m	Red clay.
4 - 32m	Limestone.
32 - 60m	Brown calcareous mudstone.
60 - 64m	Conglomerate (base of Cambrian).
64 - 76m	Meta-pelites and meta-siltstones - quartz + feldspar + muscovite ± biotite, tourmaline schists.
76 - 78m	Felsic dyke.
78 - 102m	Meta-pelites and meta-siltstones quartz-muscovite schists, quartzofeldspathic schists, some biotite, haematite.

0 - 2m	Red clay, manganese nodules.
2 - 4m	As above.
4 - 6m	Grey limestone,
6 - 8m	As above, some orange ferruginous limestone.
8 - 10m	As above, some black calcareous mudstone.
10 - 12m	As above, orange ferruginous limestone.
12 - 14m	Grey limestone.
14 - 16m	As above.
16 - 18m	As above.
18 - 20m	As above.
20 - 22m	Pink limestone.
22 - 24m	Pink/grey silty limestone.
24 - 26m	Light grey, black and yellow calcareous mudstone.
26 - 28m	Grey limestone.
28 - 30m	Grey and dark grey limestone, rare pyrite.
30 - 32m	As above.
32 - 34m	Orange brown ferruginous calcareous mudstone.
34 - 36m	As above.
36 - 38m	Brown calcareous mudstone.
38 - 40m	As above.
40 - 42m	As above.
42 - 44m	As above.
44 - 46m	As above, minor grey limestone.
46 - 48m	Brown calcareous mudstone.
48 - 50m	As above.
50 - 52m	As above.
52 - 54m	As above.
54 - 56m	As above.
56 - 58m	As above.
58 - 60m	As above.
60 - 62m	Red brown sandy conglomerate - quartz & green schist clasts.
62 - 64m	As above.
64 - 66m	Fine grained green/grey muscovite-feldspar-quartz tourmaline schist.
66 - 68m	As above.
68 - 70m	Grey quartz-muscovite-feldspar-tourmaline schist, rare quartz vein.
70 - 72m	Grey quartz-muscovite-feldspar-tourmaline schist.
72 - 74m	Grey quartz-muscovite-feldspar-tourmaline schist, rare quartz vein.
74 - 76m	Dark grey quartz-feldspar-biotite schist.
76 - 78m	As above + pink medium grained foliated granitic rock.
78 - 80m	Green-grey quartz-muscovite/sericite schist, quartz ± tourmaline vein.
80 - 82m	Dark grey quartz-feldspar-biotite rock, rare pink felsic intrusive/volcanic.
82 - 84m	As above, haematite on fracture surfaces.
84 - 86m	As above.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppb	Pb ppm
23062	86	88	17	5
23063	88	90	-1	5
23064	90	92	2	4
23065	92	94	1	5
23066	94	96	-1	7
23067	96	98	-1	7
23068	98	100	-1	5
23069	100	102	-1	4
DUPLICATES				
23070	18	20	-1	10
23071	38	40	-1	7
23072	58	60	-1	11
23073	78	80	-1	6
23074	98	100	-1	4

Method: FA3 AA1
Detection Limit: 1 4

GEOLOGICAL LOG

86 - 88m	Fine grained green/grey to pink quartz-feldspar-muscovite schist, rare quartz vein.
88 - 90m	As above + dark grey quartz-feldspar biotite schist.
90 - 92m	Quartz-muscovite schist.
92 - 94m	As above, some haematite alteration.
94 - 96m	Green-grey quartz-muscovite schist.
96 - 98m	As above.
98 - 100m	Green/grey to brownish coarser grained quartzofeldspathic schist.
100 - 102m	Fine grained green/grey quartz-feldspar-muscovite schist.

Analyses by AMDEL LABORATORIES LIMITED

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : RC

NOMINAL COLLAR POSITION
Easting : 741950
Northing : 8484800
Azimuth(Grid) : 270°
Inclination : -70°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : PINE CREEK GOLD
PROSPECT : FENTON
HOLE No. : FRC 44
DEPTH : 150m
DRILL DATE: 24/10/94

Proposed by: TGH
Logged by : AMH
Contractor : Gorey & Cole Rig : Warman 1000
Reason for drilling: Resistivity anomaly, chargeability anomaly at depth.
Summary of results :
Comments : Water from 66m.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppb	Pb ppm
23075	0	2	-1	46
23076	2	4	-1	18
23077	4	6	-1	8
23078	6	8	-1	5
23079	8	10	-1	4
23080	10	12	-1	19
23081	12	14	-1	31
23082	14	16	-1	38
23083	16	18	-1	69
23084	18	20	-1	33
23085	20	22	-1	15
23086	22	24	-1	14
23087	24	26	-1	30
23088	26	28	-1	15
23089	28	30	-1	14
23090	30	32	-1	7
23091	32	34	-1	6
23092	34	36	-1	9
23093	36	38	-1	7
23094	38	40	-1	7
23095	40	42	-1	8
23096	42	44	-1	9
23097	44	46	-1	5
23098	46	48	-1	7
23099	48	50	-1	7
23100	50	52	-1	6
23101	52	54	-1	6
23102	54	56	-1	7
23103	56	58	35	5
23104	58	60	14	4
23105	60	62	3	-4
23106	62	64	-1	-4
23107	64	66	-1	4
23108	66	68	-1	4
23109	68	70	-1	9
23110	70	72	17	-4
23111	72	74	9	-4
23112	74	76	12	4
23113	76	78	31	5
23114	78	80	21	5
23115	80	82	7	4
23116	82	84	78	6
23117	84	86	35	6
23118	86	88	3	8
23119	88	90	2	6

GEOLOGICAL LOG Water Cut :

SUMMARY LOG

0 - 12m	Orange to green clay.
12 - 30m	Limestone, weathered siltstone.
30 - 60m	Brown calcareous mudstone (base of Cambrian).
60 - 150m	Predominantly meta-arenites, fine to medium grained with minor meta-pelite and very coarse volcanolithic conglomerate Some haematite alteration, rare pyrite, very rare quartz veining.

0 - 2m	Orange clay.
2 - 4m	Orange and green clay.
4 - 6m	Green clay.
6 - 8m	Green clay, some quartz.
8 - 10m	Green clay.
10 - 12m	As above.
12 - 14m	Grey limestone.
14 - 16m	Dark brown clay/weathered limestone.
16 - 18m	As above.
18 - 20m	Grey limestone.
20 - 22m	As above, tan weathered siltstone.
22 - 24m	As above.
24 - 26m	Grey and yellow calcareous siltstone.
26 - 28m	Grey to black cherty calcareous mudstone.
28 - 30m	As above.
30 - 32m	Red-brown ferruginous calcareous mudstone.
32 - 34m	As above.
34 - 36m	As above.
36 - 38m	As above.
38 - 40m	As above.
40 - 42m	As above.
42 - 44m	As above.
44 - 46m	As above.
46 - 48m	As above.
48 - 50m	As above.
50 - 52m	As above.
52 - 54m	As above.
54 - 56m	As above.
56 - 58m	As above.
58 - 60m	Red brown calcareous mudstone (base of Cambrian).
60 - 62m	Red haematitic meta-siltstone/meta greywacke.
62 - 64m	As above, some coarse 1 - 2mm quartz feldspar grains.
64 - 66m	Pink/grey meta-arenite, 1mm quartz feldspar grains, foliated.
66 - 68m	As above, rare quartz vein.
68 - 70m	As above, very rare quartz vein.
70 - 72m	Pink/grey meta-arenite, 1mm quartz feldspar grains, foliated.
72 - 74m	Green-grey meta siltstone, siliceous, minor haematite.
74 - 76m	Green grey meta-arenite, siliceous, minor haematite.
76 - 78m	Green grey meta-arenite, some very haematitic on fracture surfaces, specular haematite and chlorite.
78 - 80m	As above.
80 - 82m	As above, rare quartz vein.
82 - 84m	As above, orange haematitic staining, very rare pyrite.
84 - 86m	As above, orange haematitic staining, chlorite fractures.
86 - 88m	Green grey meta-arenite, some very haematitic on fracture surfaces, specular haematite and chlorite.
88 - 90m	Very fine grained black to red haematitic siliceous meta-pelite, rare quartz vein.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppb	Pb ppm
23120	90	92	2	6
23121	92	94	1	4
23122	94	96	-1	9
23123	96	98	36	5
23124	98	100	20	4
23125	100	102	4	4
23126	102	104	8	5
23127	104	106	5	4
23128	106	108	9	17
23129	108	110	52	4
23130	110	112	9	9
23131	112	114	4	4
23132	114	116	24	9
23133	116	118	5	5
23134	118	120	5	8
23135	120	122	8	4
23136	122	124	14	11
23137	124	126	2	9
23138	126	128	17	11
23139	128	130	21	11
23140	130	132	18	9
23141	132	134	-1	8
23142	134	136	-1	9
23143	136	138	-1	5
23144	138	140	1	8
23145	140	142	2	12
23146	142	144	3	8
23147	144	146	2	10
23148	146	148	2	7
23149	148	150	2	7

DUPLICATES

23150	18	20	-1	25
23151	38	40	-1	9
23152	58	60	13	8
23153	78	80	9	6
23154	98	100	24	4
23155	118	120	7	7
23156	138	140	-1	6

Method:	FA3	AA1
Detection Limit:	1	4

GEOLOGICAL LOG

90 - 92m	Grey quartzofeldspathic meta greywacke.
92 - 94m	As above, rare haematitic coatings.
94 - 96m	Pink/grey to greenish quartzofeldspathic meta-arenite.
96 - 98m	Green and red fine grained meta-arenite. Very rare quartz vein.
98 - 100m	Grey medium grained meta-arenite.
100 - 102m	As above.
102 - 104m	As above.
104 - 106m	As above.
106 - 108m	As above, minor haematite.
108 - 110m	As above, minor haematite.
110 - 112m	As above, minor haematite.
112 - 114m	As above, minor haematite.
114 - 116m	Grey medium grained meta-arenite.
116 - 118m	Grey fine to medium grained meta-arenite, rare quartz-pyrite veining.
118 - 120m	Grey fine to medium grained meta-arenite, slightly haematitic.
120 - 122m	As above.
122 - 124m	Coarse grained quartz-feldspar-pyrite volcanolithic conglomerate - some clasts to 1cm.
124 - 126m	As above, rare pyrite.
126 - 128m	As above, common pyrite.
128 - 130m	As above, common pyrite.
130 - 132m	As above, common pyrite.
132 - 134m	Medium grained grey meta-arenite, possibly volcaniclastic?
134 - 136m	Fine to medium grained grey meta-arenite/greywacke.
136 - 138m	As above.
138 - 140m	As above.
140 - 142m	As above.
142 - 144m	As above.
144 - 146m	As above.
146 - 148m	As above.
148 - 150m	As above.

Analyses by AMDEL LABORATORIES LIMITED

NORTH EXPLORATION
Div of North Mining Ltd
A.C.N. 000 081 434
NORTHERN TERRITORY
DRILL LOG : RC

NOMINAL COLLAR POSITION
Easting : 741900
Northing : 8484800
Azimuth(Grid) : 90°
Inclination : -80°
Reduced Level :

SURVEYED COLLAR POSITION
Easting :
Northing :
Azimuth(grid) :
Inclination :
Reduced Level :
Surveyed by :

PROJECT : PINE CREEK GOLD
PROSPECT : FENTON
HOLE No. : FRC 45
DEPTH : 76m
DRILL DATE: 05/11/94

Proposed by: TGH
Logged by : AMH
Contractor : Gorey & Cole
Rig : Vickers Keogh VK600B
Reason for drilling: Resistivity high.
Summary of results : Deep trough in Cambrian - much thicker limestone sequence.
Comments : Very wet from 66m.

ANALYTICAL DATA

Sample NT	from (m)	to (m)	Au ppb	Pb ppm
23229	0	2	2	75
23230	2	4	1	48
23231	4	6	2	43
23232	6	8	4	42
23233	8	10	2	19
23234	10	12	1	23
23235	12	14	3	29
23236	14	16	1	17
23237	16	18	1	14
23238	18	20	-1	15
23239	20	22	1	11
23240	22	24	1	7
23241	24	26	1	46
23242	26	28	-1	8
23243	28	30	-1	8
23244	30	32	-1	7
23245	32	34	-1	4
23246	34	36	-1	5
23247	36	38	-1	10
23248	38	40	-1	7
23249	40	42	-1	9
23250	42	44	-1	9
21651	44	46	-1	8
21652	46	48	2	10
21653	48	50	-1	8
21654	50	52	-1	10
21655	52	54	1	13
21656	54	56	-1	7
21657	56	58	2	-4
21658	58	60	1	8
21659	60	62	1	14
21660	62	64	-1	13
21661	64	66	-1	23
21662	66	68	-1	14
21663	68	70	-1	26
21664	70	72	-1	28
21665	72	74	1	31
21666	74	76	-1	25

DUPLICATES

21667	18	20	-1	14
21668	38	40	-1	11
21669	58	60	1	8

Method:	FA3	AA1
Detection Limit:	1	4

GEOLOGICAL LOG Water Cut :

SUMMARY LOG

0 - 8m	Red clay.
8 - 24m	Calcareous mudstone, limestone, clay.
24 - 70m	Grey limestone.
70 - 74m	Cavity, calcite + fluorite + pyrite veining, weathered limestone.
74 - 76m	Grey limestone.

0 - 2m	Red clay.
2 - 4m	As above.
4 - 6m	As above.
6 - 8m	As above.
8 - 10m	Yellow clay, minor limestone and calcareous mudstone.
10 - 12m	As above, calcite veining.
12 - 14m	Brown calcareous mudstone, minor limestone.
14 - 16m	As above.
16 - 18m	Brown calcareous mudstone.
18 - 20m	Grey limestone, minor clay.
20 - 22m	Blue-grey and brown calcareous mudstone and limestone.
22 - 24m	As above.
24 - 26m	Grey limestone, minor calcite.
26 - 28m	As above.
28 - 30m	As above.
30 - 32m	Brown limestone.
32 - 34m	Pink limestone.
34 - 36m	As above.
36 - 38m	As above.
38 - 40m	Pink limestone, abundant (≈ 10%) calcite veining.
40 - 42m	As above.
42 - 44m	Pink limestone, rare calcite veining.
44 - 46m	Grey limestone.
46 - 48m	As above.
48 - 50m	As above.
50 - 52m	As above.
52 - 54m	As above.
54 - 56m	Grey limestone, rare red jasper.
56 - 58m	Grey limestone, some green-grey shale.
58 - 60m	Green-grey mudstone, brownish grey limestone, rare calcite.
60 - 62m	Blue-grey calcareous mudstone, brownish grey limestone, rare pyrite, large calcite crystals.
62 - 64m	Blue-grey calcareous mudstone, brownish grey limestone.
64 - 66m	Grey limestone, rare pyrite.
66 - 68m	Grey limestone.
68 - 70m	As above.
70 - 72m	Grey limestone, very fractured with calcite, fluorite + pyrite veining, brown oxidised limestone.
72 - 74m	As above - cavity (n.b. same depth as quartz vein in FDH4).
74 - 76m	Grey limestone, common disseminated pyrite.

Analyses by AMDEL LABORATORIES LIMITED

APPENDIX 2
Drilling Geochemical Results

APPENDIX 2 - DRILL HOLE GEOCHEMISTRY RESULTS

The following geochemistry results were determined by Assaycorp Pty Ltd, Pine Creek or Amdel Laboratories, Darwin.

Gold was determined by Fire Assay / AAS and base metals by AAS.

Sample numbers corresponding to drill holes are given below, and details of sample locations are shown on the drill logs (appendix 1).

HOLE No.	SAMPLE Nos.
FDH3	22897 - 22968, 24982 - 25054
FDH4	23157 - 23228, 25055 - 25117
FDH5	21670 - 21728, 23910 - 24000, 24901 - 24981
FRC21	17001 - 17060
FRC22	17061 - 17120, 17281 - 17321
FRC23	17121 - 17180
FRC24	17181 - 17218
FRC25	17219 - 17280
FRC26	17322 - 17383
FRC27	17384 - 17439
FRC28	17440 - 17517
FRC29	71518 - 17595
FRC30	17596 - 17673
FRC31	17674 - 17748
FRC32	17749 - 17823
FRC33	17824 - 17898
FRC34	17899 - 17973, 19501 - 19503
FRC35	17974 - 18147
FRC36	18148 - 18224
FRC37	18225 - 18310
FRC38	18311 - 18387
FRC39	18388 - 18464
FRC40	18465 - 18541
FRC41	22846 - 22896
FRC42	22969 - 23018
FRC43	23019 - 23074
FRC44	23075 - 23156
FRC45	23229 - 23250, 21651 - 21669

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ASSAY CODE: AC 15063

North Exploration

Distribution

Rob Sowerby

Client Reference: 0031
Project :
Cost Code:

Date Received: 13/07/1994
Number of Samples: 218

Sample Preparation

Analysis	Analytical Technique	Precision & Accuracy	Detection Limit	Data Units
Au	FA/ICP	Acc. ± 15%	0.001	ppm
Au(R)	FA/ICP	Acc. ± 15%	0.001	ppm

Authorisation: Ray Wooldridge
Report Dated: 24/07/1994

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ASSAY CODE: AC 15063

Sample	Au (ppm)	Au(R) (ppm)
17001	0.018	0.015
17002	0.003	
17003	0.001	
17004	0.001	
17005	0.001	
17006	0.001	
17007	0.001	
17008	0.001	0.001
17009	0.001	
17010	0.001	
17011	0.001	
17012	0.001	0.001
17013	0.001	
17014	0.002	
17015	0.002	
17016	0.001	
17017	0.001	
17018	0.001	
17019	0.002	
17020	0.006	0.009
17021	0.005	0.004
17022	0.003	0.003
17023	0.004	0.004
17024	0.002	
17025	0.002	

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Sample	Au (ppm)	Au(R) (ppm)
17026	0.001	
17027	0.001	
17028	0.002	0.002
17029	0.002	
17030	0.001	
17031	0.002	
17032	0.003	
17033	0.002	
17034	0.002	
17035	0.010	0.009
17036	0.005	
17037	0.004	
17038	0.007	0.008
17039	0.004	
17040	0.005	
17041	0.005	
17042	0.006	
17043	0.006	0.006
17044	0.003	
17045	0.009	0.007
17046	0.017	
17047	0.064	0.065
17048	0.040	0.035
17049	0.021	0.017
17050	0.048	0.042

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Sample	Au (ppm)	Au(R) (ppm)
17051	0.107	0.104
17052	0.012	0.012
17053	0.019	
17054	0.052	0.056
17055	0.080	
17056	0.047	
17057	0.015	
17058	0.006	
17059	0.007	
17060	0.080	0.082
17061	0.003	
17062	0.001	0.001
17063	<0.001	
17064	<0.001	
17065	0.001	
17066	0.002	
17067	0.001	
17068	0.001	
17069	0.001	
17070	<0.001	
17071	<0.001	
17072	0.001	
17073	0.001	
17074	0.001	
17075	0.001	0.001

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ASSAY CODE: AC 15063

Sample	Au (ppm)	Au(R) (ppm)
17076	0.001	
17077	0.001	
17078	0.003	
17079	0.004	0.006
17080	0.002	
17081	0.001	
17082	<0.001	
17083	0.001	
17084	0.003	0.002
17085	0.001	
17086	0.001	0.001
17087	0.001	
17088	0.006	0.005
17089	0.004	
17090	0.001	
17091	0.002	
17092	0.003	
17093	0.003	
17094	0.002	
17095	0.002	
17096	0.004	0.003
17097	0.003	
17098	0.003	
17099	0.002	
17100	0.002	

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Sample	Au (ppm)	Au(R) (ppm)
17101	0.003	0.002
17102	0.003	
17103	0.011	
17104	0.028	0.026
17105	0.003	
17106	0.005	
17107	0.004	
17108	0.003	
17109	0.004	
17110	0.008	
17111	0.003	
17112	0.002	
17113	0.004	
17114	0.003	
17115	0.002	
17116	0.004	
17117	0.003	
17118	0.005	0.005
17119	0.010	
17120	0.019	0.016
17121	0.002	
17122	0.001	
17123	0.001	
17124	<0.001	
17125	0.001	

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Sample	Au (ppm)	Au(R) (ppm)
17126	0.002	
17127	0.003	
17128	0.002	
17129	0.002	
17130	0.001	0.001
17131	0.001	
17132	0.002	
17133	0.003	
17134	0.002	
17135	0.002	
17136	0.001	
17137	0.011	0.014
17138	0.016	0.016
17139	0.102	0.104
17140	0.037	
17141	0.014	
17142	0.002	
17143	0.001	
17144	0.009	
17145	0.003	
17146	0.003	
17147	0.005	
17148	0.018	0.018
17149	0.014	
17150	0.011	0.013

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Sample	Au (ppm)	Au(R) (ppm)
17151	0.014	
17152	0.007	
17153	0.004	
17154	0.005	
17155	0.003	
17156	0.005	
17157	0.005	0.006
17158	0.003	
17159	0.002	
17160	0.003	
17161	0.005	
17162	0.058	0.070
17163	0.018	
17164	0.013	0.012
17165	0.004	
17166	0.001	
17167	0.002	
17168	0.003	
17169	0.006	
17170	0.005	
17171	0.004	
17172	0.001	0.002
17173	0.002	
17174	0.004	
17175	0.004	

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Sample	Au (ppm)	Au(R) (ppm)
17176	0.003	0.003
17177	0.001	
17178	0.080	0.086
17179	0.005	
17180	0.004	
17181	0.003	
17182	0.004	
17183	0.003	
17184	0.004	
17185	0.006	
17186	0.010	0.008
17187	0.008	
17188	0.003	
17189	0.002	0.002
17190	0.003	
17191	0.001	
17192	0.001	
17193	0.002	
17194	0.003	
17195	0.002	0.001
17196	0.001	
17197	0.002	
17198	0.002	
17199	0.002	
17200	0.002	

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ASSAY CODE: AC 15063

Sample	Au (ppm)	Au(R) (ppm)
17201	0.001	
17202	0.001	
17203	0.002	
17204	0.004	0.003
17205	0.001	
17206	0.001	
17207	0.001	
17208	0.001	
17209	0.002	
17210	0.001	
17211	0.001	
17212	0.001	
17213	0.013	
17214	0.006	
17215	0.010	
17216	0.007	0.007
17217	0.007	
17218	0.001	

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ASSAY CODE: AC 15318

Distribution
Rob Sowerby

North Exploration

Client Reference: NT 816
Project :
Cost Code:

Date Received: 22/07/1994
Number of Samples: 165

Sample Preparation

Analysis	Analytical Technique	Precision & Accuracy	Detection Limit	Data Units
Au	FA50	Acc. ± 15%	0.001	ppm
Au(R)	FA50	Acc. ± 15%	0.001	ppm

Authorisation: Ray Wooldric
Report Dated: 30/07/1

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ASSAY CODE: AC 15318

Sample	Au (ppm)	Au(R) (ppm)
17219	0.002	
17220	0.003	
17221	0.002	
17222	0.005	
17223	0.004	
17224	0.021	
17225	0.025	0.029
17226	0.010	
17227	0.004	
17228	0.003	
17229	0.023	
17230	0.013	
17231	0.028	
17232	0.015	
17233	0.103	0.098
17234	0.007	
17235	0.007	
17236	0.011	
17237	0.008	0.010
17238	0.003	0.005
17239	0.004	
17240	0.005	
17241	0.004	
17242	0.004	
17243	0.004	

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ASSAY CODE: AC 15318

Sample	Au (ppm)	Au(R) (ppm)
17244	0.005	
17245	0.005	0.005
17246	0.003	0.004
17247	0.002	
17248	0.004	
17249	0.010	
17250	0.007	
17251	0.004	0.004
17252	0.020	0.020
17253	0.045	0.043
17254	0.014	0.027
17255	0.005	
17256	0.005	
17257	0.037	
17258	0.007	
17259	0.005	
17260	0.005	
17261	0.005	
17262	0.044	0.042
17263	0.059	0.051
17264	0.023	0.024
17265	0.033	
17266	0.007	
17267	0.014	
17268	0.021	0.019

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ASSAY CODE: AC 15318

Sample	Au (ppm)	Au(R) (ppm)
17269	0.005	
17270	0.004	
17271	0.034	
17272	0.049	
17273	0.064	0.056
17274	0.051	
17275	0.021	0.018
17276	0.003	
17277	0.006	
17278	0.003	
17279	0.006	
17280	0.033	0.029
17281	0.016	
17282	0.011	
17283	0.018	0.017
17284	0.037	0.032
17285	0.033	
17286	0.013	
17287	0.021	
17288	0.034	
17289	0.040	0.041
17290	0.027	
17291	0.023	0.024
17292	0.027	
17293	0.024	

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ASSAY CODE: AC 15318

Sample	Au (ppm)	Au(R) (ppm)
17294	0.017	
17295	0.010	
17296	0.014	
17297	0.084	0.080
17298	0.023	
17299	0.005	0.006
17300	0.014	
17301	0.018	
17302	0.022	
17303	0.028	0.026
17304	0.007	
17305	0.009	
17306	0.015	
17307	0.008	
17308	0.023	0.019
17309	0.011	
17310	0.006	
17311	0.005	
17312	0.009	0.008
17313	0.013	
17314	0.004	
17315	0.030	0.028
17316	0.025	
17317	0.018	
17318	0.029	

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ASSAY CODE: AC 15318

Sample	Au (ppm)	Au(R) (ppm)
17319	0.061	0.055
17320	0.019	0.016
17321	0.009	
17322	0.010	
17323	0.029	0.035
17324	0.008	
17325	0.007	
17326	0.017	
17327	0.005	
17328	0.003	
17329	0.002	
17330	0.005	
17331	0.003	
17332	0.034	0.032
17333	0.048	
17334	0.004	0.004
17335	0.024	
17336	0.081	0.077
17337	0.013	
17338	0.008	
17339	0.002	
17340	0.014	
17341	0.002	
17342	0.002	
17343	0.010	

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ASSAY CODE: AC 15318

Sample	Au (ppm)	Au(R) (ppm)
17344	0.004	
17345	0.011	
17346	0.019	0.017
17347	0.003	0.003
17348	0.003	
17349	0.011	
17350	0.004	0.005
17351	0.006	
17352	0.003	
17353	0.016	
17354	0.003	
17355	0.052	0.040
17356	0.005	
17357	0.005	
17358	0.004	
17359	0.006	
17360	0.022	0.016
17361	0.035	0.030
17362	0.010	
17363	0.006	
17364	0.002	
17365	0.005	
17366	0.004	0.004
17367	0.002	
17368	0.001	

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Sample	Au (ppm)	Au(R) (ppm)
17369	0.009	
17370	0.011	0.011
17371	0.004	
17372	0.002	
17373	0.001	0.001
17374	0.002	
17375	0.006	
17376	0.018	0.018
17377	0.006	
17378	0.003	
17379	0.005	
17380	0.001	
17381	0.010	
17382	0.017	0.018
17383	0.005	

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ASSAY CODE: AC 15257

North Exploration

Distribution

Rob Sowerby

Client Reference: NT 817

Project :

Cost Code:

Date Received: 23/07/1994

Number of Samples: 125

Sample Preparation

Analysis	Analytical Technique	Precision & Accuracy	Detection Limit	Data Units
Au	FA/ICP	Acc. ± 15%	0.001	ppm
Au(R)	FA/ICP	Acc. ± 15%	0.001	ppm

Authorisation: Ray Wooldridge

Report Dated: 05/08/1994

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P.O. Box 41, Pine Creek, N.T. 0847
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Facsimile (089) 76 1313

ASSAY CODE: AC 15257

Sample	Au (ppm)	Au(R) (ppm)
17384	0.002	
17385	0.002	
17386	0.002	
17387	0.001	
17388	0.002	
17389	<0.001	0.001
17390	0.001	
17391	0.002	
17392	0.003	
17393	0.012	0.016
17394	0.006	0.008
17395	0.011	
17396	0.004	
17397	0.002	
17398	0.001	
17399	0.002	0.001
17400	0.001	
17401	0.001	
17402	0.003	
17403	0.002	
17404	0.001	
17405	0.001	
17406	0.001	
17407	0.001	
17408	0.001	

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ASSAY CODE: AC 15257

Sample	Au (ppm)	Au(R) (ppm)
17409	0.001	0.001
17410	0.001	
17411	0.002	
17412	0.003	
17413	0.004	0.004
17414	0.001	
17415	0.002	0.001
17416	0.002	
17417	0.001	
17418	0.001	
17419	0.001	
17420	0.005	0.008
17421	0.002	
17422	0.004	
17423	0.002	
17424	0.009	0.014
17425	0.001	
17426	0.001	0.010
17427	0.001	0.001
17428	0.001	
17429	0.001	
17430	0.001	
17431	0.002	
17432	0.005	0.005
17433	0.002	

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ASSAY CODE: AC 15257

Sample	Au (ppm)	Au(R) (ppm)
17434	0.001	
17435	0.001	
17436	0.001	0.001
17437	0.001	
17438	0.001	0.001
17439	0.001	
17440	0.001	
17441	0.001	
17442	0.001	
17443	0.001	0.001
17444	0.001	
17445	0.001	
17446	0.001	
17447	0.002	
17448	0.001	0.001
17449	0.001	
17450	0.001	
17451	0.001	
17452	0.002	
17453	0.002	
17454	0.002	0.002
17455	0.002	
17456	0.001	
17457	0.006	0.005
17458	0.001	0.001

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Facsimile (089) 76 1310

ASSAY CODE: AC 15257

Sample	Au (ppm)	Au(R) (ppm)
17459	0.001	
17460	0.001	
17461	0.001	
17462	0.001	
17463	0.001	0.002
17464	0.001	
17465	0.001	
17466	0.001	
17467	0.001	0.001
17468	0.001	
17469	0.001	0.001
17470	0.001	
17471	0.001	
17472	0.001	
17473	0.001	
17474	0.001	
17475	0.001	0.001
17476	0.001	
17477	0.001	
17478	0.001	
17479	0.001	
17480	0.001	0.001
17481	<0.001	
17482	<0.001	
17483	0.001	

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Facsimile (089) 76 131[illegible]

ASSAY CODE: AC 15257

Sample	Au (ppm)	Au(R) (ppm)
17484	0.001	
17485	0.008	0.011
17486	0.002	
17487	0.002	
17488	0.003	
17489	0.021	0.024
17490	0.061	0.082
17491	0.023	0.024
17492	0.006	
17493	0.196	0.199
17494	0.013	0.012
17495	0.008	
17496	0.007	
17497	0.008	0.010
17498	0.006	
17499	0.010	
17500	0.013	0.010
17501	0.010	
17502	0.128	0.132
17503	0.019	0.026
17504	0.008	0.008
17505	0.003	
17506	0.004	
17507	0.005	0.005
17508	0.008	0.011

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Facsimile (089) 76 1310

ASSAY CODE: AC 15311

North Exploration

Distribution

Rob Sowerby

Client Reference: NT 818

Project :

Cost Code:

Date Received: 23/07/1994

Number of Samples: 158

Sample Preparation

Analysis	Analytical Technique	Precision & Accuracy	Detection Limit	Data Units
Au	FA/ICP	Acc. ± 15%	0.001	ppm
Au(R)	FA/ICP	Acc. ± 15%	0.001	ppm

Authorisation: Ray Wooldridge

Report Dated: 05/08/1994

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ASSAY CODE: AC 15311

Sample	Au (ppm)	Au(R) (ppm)
17509	0.006	
17510	0.005	
17511	0.195	0.178
17512	0.011	
17513	0.007	
17514	0.008	0.009
17515	0.001	
17516	0.017	
17517	0.007	
17518	0.003	
17519	0.001	
17520	0.001	
17521	0.001	
17522	0.001	
17523	<0.001	
17524	0.001	0.002
17525	0.001	
17526	0.001	
17527	0.001	
17528	0.001	
17529	0.001	
17530	<0.001	
17531	0.002	
17532	0.001	
17533	0.001	

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ASSAY CODE: AC 15311

Sample	Au (ppm)	Au(R) (ppm)
17534	0.001	
17535	0.002	0.002
17536	0.001	
17537	0.001	
17538	0.004	
17539	0.004	
17540	0.002	
17541	0.001	
17542	0.002	
17543	0.003	
17544	0.007	
17545	0.002	
17546	0.005	0.006
17547	0.016	
17548	0.011	
17549	0.033	0.035
17550	0.020	0.016
17551	0.005	
17552	0.008	
17553	0.014	
17554	0.077	0.064
17555	0.030	
17556	0.026	0.025
17557	0.062	0.063
17558	0.008	

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ASSAY CODE: AC 15311

Sample	Au (ppm)	Au(R) (ppm)
17559	0.002	
17560	0.031	
17561	1.350	1.540
17562	0.018	
17563	0.370	0.410
17564	0.024	
17565	0.014	
17566	0.138	0.140
17567	0.019	
17568	0.009	
17569	0.005	
17570	0.004	
17571	0.009	
17572	0.002	
17573	0.010	
17574	0.003	
17575	0.003	
17576	0.002	0.004
17577	0.007	
17578	<0.001	
17579	<0.001	
17580	0.018	
17581	0.121	0.130
17582	0.017	
17583	0.004	0.006

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ASSAY CODE: AC 15311

Sample	Au (ppm)	Au(R) (ppm)
17584	0.009	
17585	0.010	
17586	0.220	0.220
17587	0.039	0.039
17588	0.020	
17589	0.006	
17590	0.004	
17591	0.011	0.011
17592	0.010	
17593	0.002	
17594	<< Sample not received >>	
17595	<< Sample not received >>	
18001	0.001	0.001
18002	0.001	
18003	0.002	
18004	0.002	
18005	0.002	
18006	0.001	
18007	0.001	
18008	0.001	0.002
18009	0.001	
18010	0.001	
18011	0.002	
18012	0.002	
18013	0.007	

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ASSAY CODE: AC 15311

Sample	Au (ppm)	Au(R) (ppm)
18014	0.029	0.030
18015	0.243	0.210
18016	0.004	
18017	0.007	
18018	0.005	0.006
18019	0.005	
18020	0.026	
18021	0.010	
18022	0.008	
18023	1.820	1.590
18024	0.005	
18025	0.005	
18026	0.003	
18027	0.003	
18028	0.002	
18029	0.007	0.004
18030	0.004	
18031	0.002	
18032	0.003	
18033	0.003	
18034	0.001	
18035	0.002	
18036	0.001	
18037	0.001	
18038	0.003	

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ASSAY CODE: AC 15311

Sample	Au (ppm)	Au(R) (ppm)
18039	0.002	
18040	0.001	
18041	0.001	
18042	0.002	
18043	0.002	
18044	0.002	
18045	0.001	
18046	0.002	
18047	0.002	
18048	0.003	0.002
18049	0.002	
18050	0.002	
16601	<0.001	
16602	<0.001	
16603	0.001	0.001
16604	0.001	
16605	<0.001	<0.001
16606	0.001	
16607	0.002	
16608	0.002	
16609	0.003	
16610	0.002	
16611	0.002	
16612	0.001	
16613	0.001	

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ASSAY CODE: AC 15311

Sample	Au (ppm)	Au(R) (ppm)
16614	<0.001	0.001
16615	0.002	
16616	<0.001	
16617	<0.001	
16618	<0.001	
16619	0.001	
16620	<0.001	
16621	0.001	

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ASSAY CODE: AC 15345

North Exploration

Distribution

R.SOWERBY

Client Reference: 0035
Project :
Cost Code:

Date Received: 26/07/1994
Number of Samples: 133

Sample Preparation

Analysis	Analytical Technique	Precision & Accuracy	Detection Limit	Data Units
Au	FA50	Acc. ± 15%	0.001	ppm
Au(R)	FA50	Acc. ± 15%	0.001	ppm

Authorisation: Ray Wooldridge

Report Dated: 10/08/1994

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ASSAY CODE: AC 15345

Sample	Au (ppm)	Au(R) (ppm)
17594	0.024	0.025
17595	0.010	0.014
17596	0.003	
17597	0.001	
17598	0.002	
17599	0.001	
17600	0.001	
17601	0.001	
17602	0.001	
17603	0.001	
17604	0.020	0.014
17605	0.001	0.001
17606	0.001	
17607	0.001	
17608	<0.001	
17609	0.001	
17610	<0.001	
17611	0.001	
17612	0.002	
17613	0.001	
17614	0.006	
17615	0.006	
17616	0.005	
17617	<0.001	
17618	0.001	

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ASSAY CODE: AC 15345

Sample	Au (ppm)	Au(R) (ppm)
17619	0.002	
17620	0.001	
17621	0.001	
17622	0.001	
17623	0.001	0.001
17624	0.001	0.001
17625	0.002	
17626	0.001	
17627	<0.001	
17628	0.001	
17629	0.001	
17630	0.001	
17631	<0.001	
17632	<0.001	
17633	0.001	
17634	<0.001	
17635	0.005	0.004
17636	0.004	0.004
17637	0.002	
17638	0.010	0.011
17639	<0.001	
17640	0.001	
17641	<0.001	
17642	<0.001	
17643	<0.001	

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ASSAY CODE: AC 15345

Sample	Au (ppm)	Au(R) (ppm)
17644	0.017	0.017
17645	<0.001	
17646	0.330	0.290
17647	0.018	0.023
17648	0.004	
17649	0.006	
17650	0.018	0.020
17651	0.024	0.018
17652	0.026	0.034
17653	<0.001	
17654	<0.001	
17655	<0.001	
17656	0.012	0.017
17657	<0.001	
17658	<0.001	
17659	0.003	0.006
17660	0.002	
17661	0.008	
17662	0.013	0.013
17663	0.004	
17664	0.005	
17665	0.018	
17666	0.018	0.021
17667	0.013	0.018
17668	0.008	

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ASSAY CODE: AC 15345

Sample	Au (ppm)	Au(R) (ppm)
17669	0.004	
17670	0.010	
17671	<0.001	
17672	0.009	
17673	0.005	
17674	0.003	
17675	<0.001	
17676	<0.001	
17677	0.002	
17678	<0.001	
17679	<0.001	0.001
17680	<0.001	
17681	0.006	0.007
17682	0.002	
17683	0.001	
17684	0.001	
17685	0.002	
17686	0.001	
17687	0.001	
17688	0.002	
17689	0.001	
17690	0.002	
17691	<0.001	
17692	0.001	
17693	0.001	

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ASSAY CODE: AC 15345

Sample	Au (ppm)	Au(R) (ppm)
17694	0.001	
17695	0.001	
17696	0.001	
17697	0.001	
17698	<0.001	
17699	0.001	
17700	0.001	
17701	0.002	0.003
17702	0.001	
17703	0.002	
17704	0.001	
17705	0.001	
17706	0.001	
17707	0.001	
17708	<0.001	
17709	0.002	0.003
17710	0.001	
17711	0.002	
17712	0.001	
17713	0.001	
17714	<0.001	
17715	0.001	
17716	<0.001	
17717	<0.001	
17718	0.001	

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ASSAY CODE: AC 15345

Sample	Au (ppm)	Au(R) (ppm)
17719	0.002	0.002
17720	0.001	
17721	0.001	
17722	0.001	
17723	0.001	
17724	<0.001	
17725	0.003	0.003
17726	0.001	

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ASSAY CODE: AC 15443

North Exploration

Distribution

ROB SOWERBY

Client Reference: NT 820
Project :
Cost Code:

Date Received: 04/08/1994
Number of Samples: 267

Sample Preparation

Analysis	Analytical Technique	Precision & Accuracy	Detection Limit	Data Units
Au	FA50	Acc. ± 15%	0.001	ppm
Au(R)	FA50	Acc. ± 15%	0.001	ppm

Authorisation: Ray Wooldridge

Report Dated: 10/08/1994

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ASSAY CODE: AC 15443

Sample	Au (ppm)	Au(R) (ppm)
17727	<0.001	
17728	<0.001	
17729	<0.001	
17730	<0.001	
17731	<0.001	
17732	<0.001	
17733	<0.001	
17734	0.001	
17735	<0.001	0.001
17736	<0.001	
17737	0.001	
17738	0.002	0.002
17739	0.002	
17740	<0.001	0.001
17741	<0.001	
17742	<0.001	
17743	<0.001	
17744	0.001	
17745	<0.001	
17746	<0.001	
17747	0.002	0.003
17748	0.001	
17749	0.001	
17750	0.001	
17751	<0.001	

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ASSAY CODE: AC 15443

Sample	Au (ppm)	Au(R) (ppm)
17752	<0.001	
17753	<0.001	
17754	<0.001	
17755	0.001	0.001
17756	0.001	
17757	0.001	
17758	0.001	
17759	0.001	
17760	0.010	0.010
17761	0.008	0.008
17762	0.002	0.002
17763	0.001	
17764	<0.001	
17765	0.002	
17766	<0.001	
17767	0.002	0.001
17768	0.001	
17769	0.001	
17770	0.001	
17771	0.001	
17772	0.001	
17773	0.001	
17774	0.001	0.001
17775	<0.001	
17776	<0.001	

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ASSAY CODE: AC 15443

Sample	Au (ppm)	Au(R) (ppm)
17777	0.003	0.003
17778	0.004	0.004
17779	0.003	0.004
17780	0.003	
17781	0.002	
17782	0.002	
17783	0.002	
17784	0.004	
17785	0.002	0.002
17786	0.012	0.012
17787	0.001	
17788	0.001	
17789	0.001	
17790	0.001	
17791	<0.001	
17792	<0.001	
17793	0.001	0.001
17794	<0.001	
17795	0.002	
17796	0.008	0.007
17797	0.002	
17798	0.002	0.002
17799	0.003	
17800	0.003	0.003
17801	0.003	

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ASSAY CODE: AC 15443

Sample	Au (ppm)	Au(R) (ppm)
17802	0.001	
17803	0.001	
17804	0.002	
17805	0.002	
17806	0.002	
17807	0.002	
17808	0.003	
17809	0.002	
17810	0.004	0.003
17811	0.003	
17812	0.003	
17813	0.001	0.001
17814	0.002	
17815	0.002	
17816	0.005	0.004
17817	0.002	
17818	0.002	
17819	0.002	
17820	0.003	
17821	0.003	
17822	0.002	
17823	0.003	
17824	0.003	0.003
17825	0.002	
17826	0.002	

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ASSAY CODE: AC 15443

Sample	Au (ppm)	Au(R) (ppm)
17827	0.002	
17828	0.002	
17829	0.001	
17830	0.001	
17831	0.001	
17832	0.001	
17833	0.001	
17834	<0.001	
17835	0.002	0.001
17836	0.001	
17837	0.001	
17838	<0.001	
17839	<0.001	0.001
17840	<0.001	
17841	<0.001	
17842	<0.001	
17843	0.001	
17844	0.002	
17845	0.002	
17846	0.003	
17847	<0.001	
17848	0.008	0.007
17849	0.004	0.004
17850	0.002	
17851	0.002	

ASSAYCORP PTY LTD
A.C.N. 052 982 91[illegible]
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P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 126[illegible]
Facsimile (089) 76 131[illegible]

ASSAY CODE: AC 15443

Sample	Au (ppm)	Au(R) (ppm)
17852	<0.001	
17853	0.002	
17854	<0.001	
17855	0.003	
17856	0.001	
17857	<0.001	
17858	0.002	
17859	0.001	
17860	0.003	
17861	0.001	
17862	0.002	
17863	0.001	
17864	0.001	0.001
17865	0.001	
17866	<0.001	
17867	0.003	
17868	0.002	
17869	0.003	
17870	0.040	0.035
17871	0.007	0.006
17872	0.003	
17873	0.003	
17874	0.005	
17875	0.008	0.006
17876	0.019	0.015

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Telephone (089) 76 1262
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ASSAY CODE: AC 15443

Sample	Au (ppm)	Au(R) (ppm)
17877	0.780	0.079
17878	0.008	0.007
17879	0.015	0.012
17880	0.013	0.010
17881	0.009	
17882	0.018	0.014
17883	0.003	
17884	0.011	0.010
17885	0.003	
17886	0.005	
17887	<0.001	
17888	<0.001	
17889	0.002	
17890	0.001	0.001
17891	0.001	
17892	0.038	0.038
17893	0.001	
17894	<0.001	
17895	0.001	
17896	0.001	
17897	0.004	0.004
17898	<0.001	
17899	<< Sample not received >>	
17900	<< Sample not received >>	
17901	<< Sample not received >>	

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Telephone (089) 76 1262
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ASSAY CODE: AC 15443

Sample	Au (ppm)	Au(R) (ppm)
17902	<< Sample not received >>	
17903	<0.001	
17904	<0.001	
17905	0.003	0.003
17906	0.002	
17907	0.002	
17908	0.003	0.002
17909	0.001	
17910	0.001	
17911	0.001	
17912	0.002	
17913	0.001	
17914	0.001	
17915	0.002	
17916	0.002	0.001
17917	0.001	
17918	0.002	
17919	0.001	
17920	0.002	
17921	0.002	0.001
17922	0.002	
17923	0.001	
17924	0.002	
17925	0.002	0.002
17926	0.001	

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Facsimile (089) 76 131

ASSAY CODE: AC 15443

Sample	Au (ppm)	Au(R) (ppm)
17927	0.001	
17928	0.002	
17929	0.002	
17930	0.002	
17931	0.003	
17932	0.004	0.003
17933	0.002	
17934	0.006	0.006
17935	0.007	0.004
17936	0.003	
17937	0.003	
17938	0.003	
17939	0.001	
17940	0.001	
17941	0.002	
17942	0.002	0.001
17943	0.002	
17944	<0.001	
17945	<0.001	
17946	<0.001	
17947	<0.001	
17948	<0.001	
17949	0.003	
17950	0.002	
17951	0.002	

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ASSAY CODE: AC 15443

Sample	Au (ppm)	Au(R) (ppm)
17952	0.001	
17953	0.002	
17954	0.002	
17955	0.004	0.004
17956	0.004	
17957	0.008	0.009
17958	0.004	
17959	0.001	
17960	0.005	0.005
17961	0.003	
17962	0.004	0.004
17963	0.002	
17964	0.002	
17965	0.006	
17966	0.002	
17967	0.002	
17968	0.003	
17969	0.001	
17970	0.001	
17971	0.001	
17972	0.002	0.001
17973	0.002	
17974	0.004	0.003
17975	0.003	
17976	0.002	

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ASSAY CODE: AC 15443

Sample	Au (ppm)	Au(R) (ppm)
17977	0.002	
17978	0.002	
17979	0.001	
17980	0.002	
17981	0.002	
17982	0.002	
17983	0.002	
17984	0.002	
17985	0.001	
17986	0.002	
17987	0.001	
17988	0.001	
17989	0.001	
17990	0.002	
17991	0.003	
17992	0.002	0.002
17993	0.002	0.002

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ASSAY CODE: AC 15466

North Exploration

Distribution

ROB SOWERBY

Client Reference: NT 821
Project :
Cost Code:

Date Received: 04/08/1994
Number of Samples: 58

Sample Preparation

Analysis	Analytical Technique	Precision & Accuracy	Detection Limit	Data Units
Au	FA50	Acc. ± 15%	0.001	ppm
Au(R)	FA50	Acc. ± 15%	0.001	ppm

Authorisation: Ray Wooldridge

Report Dated: 10/08/1994

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ASSAY CODE: AC 15466

Sample	Au (ppm)	Au(R) (ppm)
17994	0.002	0.002
17995	0.001	
17996	0.029	0.034
17997	0.012	0.010
17998	0.001	
17999	0.001	
18000	0.001	
18101	0.001	0.001
18102	0.001	
18103	0.001	
18104	<0.001	
18105	0.003	
18106	0.001	
18107	0.003	
18108	0.030	0.340
18109	0.014	0.014
18110	0.005	
18111	0.002	
18112	0.002	
18113	0.002	
18114	0.001	
18115	0.003	
18116	0.002	
18117	0.001	
18118	<0.001	0.001

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ASSAY CODE: AC 15466

Sample	Au (ppm)	Au(R) (ppm)
18119	0.002	
18120	0.007	
18121	0.004	0.004
18122	0.002	
18123	0.002	
18124	0.022	0.026
18125	0.012	0.016
18126	0.091	0.090
18127	0.010	0.011
18128	0.019	0.018
18129	0.001	
18130	0.003	0.004
18131	0.006	
18132	0.010	0.012
18133	0.006	
18134	0.002	0.002
18135	0.001	
18136	0.002	
18137	0.004	
18138	0.004	
18139	0.004	
18140	0.003	
18141	0.004	
18142	0.005	
18143	0.006	0.007

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ASSAY CODE: AC 15466

Sample	Au (ppm)	Au(R) (ppm)
18144	0.005	
18145	0.004	0.004
18146	0.003	
18147	0.085	0.091
17899	0.003	
17900	0.002	
17901	0.004	
17902	0.002	

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ASSAY CODE: AC 15567

North Exploration

Distribution

ROB SOWERBY

Client Reference: NT 822
Project :
Cost Code:

Date Received: 04/08/1994
Number of Samples: 243

Sample Preparation

Analysis	Analytical Technique	Precision & Accuracy	Detection Limit	Data Units
Au	FA50	Acc. ± 15%	0.001	ppm
Au(R)	FA50	Acc. ± 15%	0.001	ppm

Authorisation: Ray Wooldridge

Report Dated: 11/08/1994

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ASSAY CODE: AC 15567

Sample	Au (ppm)	Au(R) (ppm)
18148	0.002	
18149	0.001	
18150	0.001	
18151	0.001	
18152	0.004	0.005
18153	0.002	
18154	0.002	0.002
18155	0.002	
18156	0.001	
18157	0.002	
18158	0.003	
18159	0.002	
18160	0.002	0.002
18161	0.002	
18162	0.002	
18163	0.003	
18164	0.002	
18165	0.001	
18166	0.002	
18167	0.003	
18168	0.002	0.002
18169	0.004	0.003
18170	0.002	
18171	0.002	
18172	0.006	

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ASSAY CODE: AC 15567

Sample	Au (ppm)	Au(R) (ppm)
18173	0.009	0.011
18174	0.004	
18175	0.002	
18176	0.009	
18177	0.019	0.020
18178	0.061	0.062
18179	0.029	0.026
18180	0.002	
18181	0.001	
18182	0.001	
18183	0.006	0.005
18184	0.004	
18185	0.004	
18186	0.003	
18187	0.002	
18188	0.004	
18189	0.005	
18190	0.004	
18191	0.007	
18192	0.004	
18193	0.003	
18194	0.002	
18195	0.003	0.002
18196	0.003	
18197	0.006	

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ASSAY CODE: AC 15567

Sample	Au (ppm)	Au(R) (ppm)
18198	0.028	0.030
18199	0.028	0.022
18200	0.005	
18201	0.011	0.011
18202	0.005	0.007
18203	0.015	0.016
18204	0.050	0.043
18205	0.063	0.058
18206	0.035	0.029
18207	0.016	
18208	0.023	
18209	0.064	0.063
18210	0.004	0.002
18211	0.004	
18212	0.003	
18213	0.003	
18214	0.003	
18215	0.002	
18216	0.002	
18217	0.002	
18218	0.002	
18219	0.003	0.003
18220	0.002	
18221	0.002	0.002
18222	0.005	

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ASSAY CODE: AC 15567

Sample	Au (ppm)	Au(R) (ppm)
18223	0.014	0.015
18224	0.003	
18225	0.003	
18226	0.002	
18227	0.001	
18228	0.001	
18229	0.001	
18230	0.001	
18231	0.001	
18232	<0.001	
18233	<0.001	
18234	0.001	
18235	0.001	
18236	0.002	0.001
18237	0.001	
18238	0.001	
18239	0.002	
18240	0.001	0.001
18241	0.001	
18242	0.002	
18243	0.001	
18244	0.001	
18245	0.001	
18246	0.002	
18247	0.002	

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Facsimile (089) 76 1313

ASSAY CODE: AC 15567

Sample	Au (ppm)	Au(R) (ppm)
18248	0.002	
18249	0.001	
18250	0.001	
18251	0.003	
18252	0.006	
18253	0.065	0.071
18254	0.008	
18255	0.003	
18256	0.004	
18257	0.002	
18258	0.002	
18259	0.012	0.015
18260	0.002	
18261	0.205	0.220
18262	0.050	
18263	0.027	
18264	0.010	
18265	0.031	0.033
18266	0.745	0.795
18267	0.120	0.140
18268	0.028	
18269	0.021	
18270	0.016	
18271	0.058	
18272	0.037	

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ASSAY CODE: AC 15567

Sample	Au (ppm)	Au(R) (ppm)
18273	0.025	0.025
18274	0.047	0.058
18275	0.007	0.010
18276	0.047	0.048
18277	0.060	0.060
18278	0.210	0.225
18279	0.007	
18280	0.009	
18281	0.010	0.011
18282	0.008	
18283	0.009	
18284	0.004	
18285	0.027	0.030
18286	0.006	0.007
18287	0.005	
18288	0.003	
18289	0.027	
18290	0.008	
18291	0.008	
18292	0.011	0.012
18293	0.036	0.040
18294	0.010	0.010
18295	0.005	
18296	0.005	
18297	0.006	

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ASSAY CODE: AC 15567

Sample	Au (ppm)	Au(R) (ppm)
18298	0.004	
18299	0.010	0.008
18300	0.003	
18301	0.025	
18302	0.009	
18303	0.013	0.015
18304	0.018	0.016
18305	0.012	0.013
18306	0.009	
18307	0.008	
18308	0.006	
18309	0.009	
18310	0.010	0.014
18311	0.004	
18312	0.001	
18313	0.001	
18314	0.001	
18315	0.001	
18316	0.001	0.002
18317	0.001	
18318	<0.001	
18319	<0.001	0.001
18320	<0.001	
18321	0.002	
18322	0.001	

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ASSAY CODE: AC 15567

Sample	Au (ppm)	Au(R) (ppm)
18323	0.001	
18324	0.001	
18325	0.002	
18326	0.002	
18327	0.002	
18328	0.001	
18329	0.009	0.009
18330	0.002	
18331	0.001	
18332	<0.001	
18333	<0.001	
18334	<0.001	
18335	<0.001	
18336	<0.001	
18337	<0.001	
18338	<0.001	
18339	<0.001	
18340	<0.001	
18341	<0.001	
18342	0.001	
18343	0.003	0.005
18344	<0.001	
18345	<0.001	
18346	<0.001	
18347	0.001	

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Facsimile (089) 76 1313

ASSAY CODE: AC 15567

Sample	Au (ppm)	Au(R) (ppm)
18348	0.001	
18349	<0.001	
18350	0.011	0.009
18351	0.046	0.042
18352	0.033	0.040
18353	0.001	
18354	0.001	
18355	0.002	
18356	0.001	
18357	0.001	
18358	0.001	
18359	0.003	
18360	0.010	0.009
18361	0.005	
18362	0.003	0.003
18363	0.002	
18364	0.004	0.004
18365	0.001	
18366	0.004	0.003
18367	0.013	0.011
18368	0.002	
18369	0.003	
18370	0.003	0.003
18371	0.004	
18372	0.018	0.017

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ASSAY CODE: AC 15567

Sample	Au (ppm)	Au(R) (ppm)
18373	0.081	0.096
18374	0.015	0.013
18375	0.003	
18376	0.009	
18377	0.002	
18378	0.004	
18379	0.002	
18380	0.005	
18381	0.005	
18382	0.004	
18383	0.005	0.007
18384	0.001	
18385	0.003	0.005
18386	0.001	
18387	0.001	
19501	<0.001	
19502	<0.001	
19503	0.001	

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ASSAY CODE: AC 15598

North Exploration

Distribution

ROB SOWERBY

Client Reference:
Project :
Cost Code:

Date Received: 04/08/1994
Number of Samples: 154

Sample Preparation

Analysis	Analytical Technique	Precision & Accuracy	Detection Limit	Data Units
Au	FA50	Acc. ± 15%	0.001	ppm
Au(R)	FA50	Acc. ± 15%	0.001	ppm

Authorisation: Ray Wooldridge
Report Dated: 13/08/1994

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ASSAY CODE: AC 15598

Sample	Au (ppm)	Au(R) (ppm)
18388	0.002	
18389	0.001	
18390	0.001	
18391	0.001	
18392	0.002	
18393	0.001	
18394	0.001	
18395	0.001	
18396	0.002	0.002
18397	0.002	
18398	0.001	0.001
18399	0.001	
18400	0.002	
18401	0.001	
18402	0.001	
18403	0.002	
18404	0.001	
18405	0.002	
18406	0.001	
18407	0.002	
18408	0.003	0.002
18409	0.003	
18410	0.005	0.003
18411	0.004	0.003
18412	0.003	

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ASSAY CODE: AC 15598

Sample	Au (ppm)	Au(R) (ppm)
18413	0.002	
18414	0.002	0.002
18415	0.003	0.002
18416	0.001	
18417	0.001	
18418	0.001	
18419	0.002	
18420	0.001	
18421	0.001	
18422	0.001	
18423	0.001	
18424	0.001	
18425	0.001	0.001
18426	0.002	
18427	0.001	
18428	0.001	
18429	0.001	0.001
18430	0.001	
18431	0.002	
18432	0.003	
18433	0.002	
18434	0.002	
18435	0.002	
18436	0.001	
18437	0.002	

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ASSAY CODE: AC 15598

Sample	Au (ppm)	Au(R) (ppm)
18438	0.002	
18439	0.002	
18440	0.001	
18441	0.002	
18442	0.003	
18443	0.004	0.004
18444	0.009	
18445	0.004	
18446	0.007	
18447	0.004	
18448	0.003	
18449	0.002	
18450	0.002	
18451	0.003	
18452	0.020	
18453	0.255	0.230
18454	0.110	0.140
18455	0.032	0.031
18456	0.022	
18457	0.051	
18458	0.460	0.440
18459	0.595	0.580
18460	0.059	
18461	0.015	
18462	0.022	0.018

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ASSAY CODE: AC 15598

Sample	Au (ppm)	Au(R) (ppm)
18463	0.001	0.001
18464	0.002	
18465	0.002	
18466	0.005	
18467	0.003	
18468	0.002	0.003
18469	0.002	
18470	0.002	
18471	0.001	
18472	0.001	
18473	0.001	
18474	0.001	
18475	0.002	
18476	0.001	
18477	0.001	
18478	0.001	
18479	0.002	
18480	<0.001	
18481	0.004	
18482	0.003	
18483	0.002	
18484	0.003	
18485	0.001	0.001
18486	0.003	
18487	0.003	

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ASSAY CODE: AC 15598

Sample	Au (ppm)	Au(R) (ppm)
18488	0.007	0.005
18489	0.004	
18490	0.001	
18491	0.002	0.001
18492	0.002	
18493	0.002	
18494	0.004	
18495	0.002	
18496	0.002	
18497	0.019	0.012
18498	0.028	0.022
18499	0.004	
18500	0.003	
18501	0.002	
18502	0.002	
18503	0.001	
18504	0.002	
18505	0.002	0.002
18506	0.011	0.009
18507	0.001	
18508	0.052	0.046
18509	0.020	0.014
18510	0.002	
18511	0.002	
18512	0.005	

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ASSAY CODE: AC 15598

Sample	Au (ppm)	Au(R) (ppm)
18513	0.006	0.005
18514	0.002	
18515	0.001	
18516	0.003	
18517	0.011	0.009
18518	0.004	0.005
18519	<0.001	
18520	<0.001	
18521	<0.001	
18522	<0.001	
18523	<0.001	0.001
18524	0.002	
18525	0.001	
18526	0.002	
18527	0.005	0.003
18528	<0.001	
18529	<0.001	
18530	0.006	0.004
18531	0.014	0.012
18532	0.022	0.013
18533	<0.001	
18534	0.006	
18535	0.018	0.018
18536	0.004	0.005
18537	<0.001	

ASSAYCORP PTY LTD
A.C.N. 052 982 91
174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 15598

Sample	Au (ppm)	Au(R) (ppm)
18538	0.001	
18539	<0.001	
18540	<0.001	
18541	0.003	0.002

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21 Marjorie Street, Berrimah, Northern Territory
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Alexandra Hoschke
NORTH EXPLORATION
PO BOX 39443
WINNELLIE

NT 0821

ANALYSIS REPORT :

Your Reference	: 0894	Our Reference	: 4DN1463
Samples Received	: 20/10/94	Results Reported	: 27/10/94
Number of Samples	: 102	Report Pages	: 1 to 3

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

Approved Signature:

for

Mr Russell Holtham
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

amdel

Job: 4DN1463
O/N: 0894

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dpl
22846	<1	--
22847	<1	--
22848	<1	--
22849	<1	--
22850	<1	--
22851	<1	--
22852	<1	--
22853	<1	--
22854	<1	<1
22855	8	6
22856	6	--
22857	4	--
22858	2	--
22859	<1	--
22860	<1	--
22861	<1	--
22862	<1	--
22863	<1	--
22864	<1	--
22865	<1	--
22866	<1	--
22867	<1	--
22868	1	--
22869	<1	--
22870	<1	--
22871	<1	<1
22872	<1	--
22873	<1	--
22874	<1	--
22875	<1	--
22876	<1	--
22877	3	--
22878	<1	--
22879	<1	--
22880	<1	--
22881	5	--
22882	<1	<1
22883	<1	--
22884	<1	--
22885	<1	--
22886	<1	--
22887	<1	--
22888	<1	--
22889	<1	--
22890	<1	--
22891	<1	--
22892	<1	--
22893	<1	--
22894	<1	--
22895	<1	--
UNITS	ppb	ppb
DET.LIM	1	1
SCHEME	FA3	FA3

amdel

Job: 4DN1463
O/N: 0894

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dp1
22896	<1	--
22897	<1	--
22898	<1	--
22899	<1	<1
22900	<1	--
22901	<1	--
22902	<1	--
22903	<1	--
22904	<1	--
22905	<1	--
22906	<1	--
22907	<1	--
22908	<1	--
22909	<1	<1
22910	<1	--
22911	<1	--
22912	<1	--
22913	<1	<1
22914	<1	--
22915	<1	--
22916	<1	--
22917	<1	--
22918	<1	--
22919	<1	--
22920	<1	--
22921	23	19
22922	7	--
22923	<1	--
22924	<1	--
22925	<1	--
22926	<1	--
22927	<1	--
22928	<1	--
22929	<1	--
22930	<1	--
22931	<1	--
22932	13	12
22933	<1	--
22934	14	--
22935	14	13
22936	8	--
22937	<1	--
22938	<1	--
22939	20	24
22940	6	8
22941	5	--
22942	6	--
22943	<1	--
22944	8	--
22945	18	22
UNITS	ppb	ppb
DET.LIM	1	1
SCHEME	FA3	FA3

amdel

Job: 4DN1463
O/N: 0894

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dp1
22946	38	27
22947	16	11
UNITS	ppb	ppb
DET.LIM	1	1
SCHEME	FA3	FA3

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Postal Address : P.O. Box 58, Berrimah, N.T. 0828
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Alexandra Hoschke
NORTH EXPLORATION
PO BOX 39443
WINNELLIE

NT 0821

ANALYSIS REPORT :

Your Reference : 0895
Our Reference : 4DN1525

Samples Received : 26/10/94
Number of Samples : 209
Results Reported : 01/11/94
Report Pages : 1 to 5

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

Approved Signature:

for

Mr Russell Holtham
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

amdel

Job: 4DN1525
O/N: 0895

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dp1	Cu	Pb	Zn
22948	19	20	240	90	70
22949	11	--	145	28	43
22950	2	--	68	17	37
22951	3	--	58	30	46
22952	1	--	56	16	42
22953	4	--	100	11	39
22954	4	--	74	47	170
22955	2	--	300	37	64
22956	2	--	98	38	48
22957	1	1	135	17	76
22958	2	--	76	45	110
22959	2	--	58	27	115
22960	2	--	61	13	92
22961	7	--	70	30	98
22962	19	19	73	29	43
22963	30	29	40	56	83
22964	<1	--	9	<4	28
22965	<1	--	48	4	78
22966	8	--	62	4	50
22967	21	26	195	98	50
22968	1	--	105	44	51
22969	1	--	155	69	140
22970	2	--	220	140	135
22971	<1	--	90	36	81
22972	<1	--	105	15	60
22973	<1	--	33	10	27
22974	<1	--	30	12	32
22975	1	--	22	12	44
22976	1	--	12	9	37
22977	<1	<1	11	8	36
22978	1	--	160	16	40
22979	1	--	51	12	31
22980	1	--	63	14	23
22981	<1	--	77	12	38
22982	1	--	10	9	39
22983	<1	--	7	9	37
22984	<1	--	7	8	37
22985	1	--	5	7	36
22986	1	--	11	6	31
22987	2	--	22	10	35
22988	1	--	16	11	42
22989	1	--	13	9	40
22990	1	--	10	6	49
22991	<1	--	11	7	52
22992	1	--	15	8	49
22993	1	--	10	8	42
22994	<1	--	18	10	43
22995	1	--	15	11	45
22996	2	--	21	13	40
22997	2	--	55	20	38
UNITS	ppb	ppb	ppm	ppm	ppm
DET.LIM	1	1	2	4	2
SCHEME	FA3	FA3	AA1	AA1	AA1

amdel

Job: 4DN1525
O/N: 0895

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dpl	Cu	Pb	Zn
22998	1	--	27	13	39
22999	5	--	14	9	35
23000	1	<1	6	4	34
23001	1	--	81	51	63
23002	<1	--	99	55	45
23003	<1	--	32	18	34
23004	<1	--	26	13	36
23005	<1	--	32	19	55
23006	1	--	42	23	57
23007	<1	--	82	42	59
23008	<1	<1	33	19	47
23009	1	--	29	15	41
23010	<1	--	46	26	44
23011	<1	--	71	38	41
23012	<1	--	36	19	31
23013	1	<1	55	30	33
23014	<1	--	115	49	45
23015	<1	--	72	32	45
23016	<1	--	175	20	37
23017	<1	--	15	6	33
23018	<1	--	28	13	42
23019	<1	--	150	68	135
23020	<1	--	66	24	110
23021	<1	--	49	49	840
23022	<1	--	84	30	220
23023	<1	--	54	17	92
23024	<1	<1	32	10	43
23025	<1	--	50	8	42
23026	<1	--	48	15	44
23027	<1	--	20	10	17
23028	<1	--	18	11	19
23029	<1	--	26	10	17
23030	<1	--	24	8	15
23031	<1	--	77	17	38
23032	<1	--	27	11	38
23033	<1	--	22	11	41
23034	<1	--	46	12	47
23035	<1	--	8	11	35
23036	<1	--	6	8	32
23037	<1	--	5	5	29
23038	<1	--	3	7	25
23039	<1	--	4	7	37
23040	<1	--	6	7	43
23041	<1	--	510	5	45
23042	<1	--	13	5	44
23043	<1	--	6	4	42
23044	<1	--	4	<4	37
23045	2	--	3	<4	40
23046	<1	--	3	<4	34
23047	<1	--	6	6	42
UNITS	ppb	ppb	ppm	ppm	ppm
DET.LIM	1	1	2	4	2
SCHEME	FA3	FA3	AA1	AA1	AA1

amdel

Job: 4DN1525
O/N: 0895

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dpl	Cu	Pb	Zn
23048	1	--	8	7	44
23049	250	236	7	4	17
23050	10	--	9	4	12
23051	1	--	6	6	46
23052	<1	--	7	<4	36
23053	<1	--	3	4	34
23054	<1	--	6	6	43
23055	<1	<1	6	4	43
23056	1	--	6	6	47
23057	<1	--	5	4	34
23058	<1	--	3	4	41
23059	<1	<1	2	5	38
23060	<1	--	<2	4	36
23061	<1	--	4	7	36
23062	21	14	2	5	33
23063	<1	--	2	5	37
23064	2	--	<2	4	64
23065	1	--	4	5	88
23066	<1	--	<2	7	65
23067	<1	--	4	7	47
23068	<1	--	3	5	41
23069	<1	--	4	4	37
23070	<1	--	17	10	19
23071	<1	--	6	7	26
23072	<1	--	9	11	49
23073	<1	--	5	6	45
23074	<1	--	3	4	39
23075	<1	--	64	46	260
23076	<1	--	29	18	130
23077	<1	--	27	8	55
23078	<1	--	28	5	43
23079	<1	--	29	4	46
23080	<1	--	61	19	64
23081	<1	--	145	31	260
23082	<1	<1	180	38	145
23083	<1	--	330	69	175
23084	<1	--	98	33	100
23085	<1	--	65	15	38
23086	<1	--	120	14	21
23087	<1	--	105	30	87
23088	<1	--	28	15	25
23089	<1	--	93	14	24
23090	<1	--	16	7	27
23091	<1	--	6	6	28
23092	<1	--	9	9	38
23093	<1	--	9	7	29
23094	<1	--	6	7	28
23095	<1	--	12	8	34
23096	<1	<1	15	9	42
23097	<1	--	10	5	41
UNITS	ppb	ppb	ppm	ppm	ppm
DET.LIM	1	1	2	4	2
SCHEME	FA3	FA3	AA1	AA1	AA1

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Job: 4DN1525
O/N: 0895

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dp1	Cu	Pb	Zn
23098	<1	--	35	7	41
23099	<1	--	36	7	40
23100	<1	--	8	6	41
23101	<1	--	8	6	45
23102	<1	--	9	7	37
23103	20	50	9	5	20
23104	14	--	15	4	20
23105	3	--	14	<4	21
23106	<1	--	9	<4	27
23107	<1	--	17	4	24
23108	<1	--	19	4	34
23109	<1	--	35	9	46
23110	17	--	18	<4	26
23111	9	--	17	<4	24
23112	12	--	13	4	20
23113	34	29	14	5	21
23114	21	--	22	5	27
23115	7	--	18	4	21
23116	76	81	13	6	25
23117	39	32	550	6	22
23118	3	--	23	8	35
23119	2	--	7	6	28
23120	2	--	4	6	31
23121	1	--	2	4	24
23122	<1	--	18	9	40
23123	37	35	6	5	25
23124	20	--	7	4	26
23125	4	--	9	4	20
23126	8	--	9	5	27
23127	6	5	6	4	29
23128	9	--	53	17	54
23129	55	50	14	4	30
23130	9	--	21	9	34
23131	4	--	11	4	25
23132	26	22	27	9	55
23133	5	--	19	5	35
23134	5	--	23	8	36
23135	8	--	19	4	33
23136	14	--	38	11	53
23137	2	--	24	9	33
23138	18	16	22	11	38
23139	24	18	28	11	36
23140	18	--	98	9	32
23141	<1	--	16	8	44
23142	<1	--	64	9	38
23143	<1	--	10	5	44
23144	1	--	11	8	53
23145	2	--	25	12	56
23146	3	--	10	8	42
23147	2	--	9	10	65
UNITS	ppb	ppb	ppm	ppm	ppm
DET.LIM	1	1	2	4	2
SCHEME	FA3	FA3	AA1	AA1	AA1

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Job: 4DN1525
O/N: 0895

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dp1	Cu	Pb	Zn
23148	2	--	8	7	40
23149	2	2	15	7	44
23150	<1	--	83	25	79
23151	<1	--	6	9	31
23152	13	--	13	8	22
23153	9	--	20	6	39
23154	25	24	6	4	22
23155	7	--	22	7	33
23156	<1	--	12	6	39
UNITS	ppb	ppb	ppm	ppm	ppm
DET.LIM	1	1	2	4	2
SCHEME	FA3	FA3	AA1	AA1	AA1

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Alexandra Hoschke
NORTH EXPLORATION
PO BOX 39443
WINNELLIE

NT 0821

ANALYSIS REPORT :

Your Reference	: 0897/NT786	Our Reference	: 4DN1535
Samples Received	: 28/10/94	Results Reported	: 02/11/94
Number of Samples	: 72	Report Pages	: 1 to 2

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

Approved Signature:

for

Mr Russell Holtham
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

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Job: 4DN1535
O/N: 0897/NT786

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dpl	Cu	Pb	Zn
23157	2	--	72	87	110
23158	2	<1	69	46	115
23159	<1	--	25	26	79
23160	<1	--	3	22	69
23161	<1	--	27	4	34
23162	<1	--	5	21	78
23163	<1	--	37	12	34
23164	<1	--	33	12	12
23165	<1	--	27	6	14
23166	<1	--	50	16	11
23167	<1	--	43	8	8
23168	<1	--	490	16	38
23169	<1	--	155	4	53
23170	<1	--	57	11	33
23171	<1	--	45	9	26
23172	<1	--	3	4	84
23173	<1	--	3	4	35
23174	<1	--	4	4	35
23175	<1	--	3	4	32
23176	<1	--	4	4	26
23177	<1	--	4	4	26
23178	<1	--	53	16	48
23179	<1	--	56	4	41
23180	<1	--	7	4	40
23181	<1	--	4	4	54
23182	<1	--	3	4	47
23183	<1	--	3	4	48
23184	<1	<1	6	4	47
23185	<1	--	3	4	31
23186	<1	--	3	4	29
23187	2	2	4	4	48
23188	<1	--	3	4	39
23189	<1	2	2	4	31
23190	2	--	3	4	26
23191	<1	--	6	4	26
23192	16	21	23	4	17
23193	15	--	30	4	31
23194	25	30	41	6	23
23195	11	--	6	7	10
23196	29	27	45	6	24
23197	9	--	23	8	30
23198	15	--	20	6	29
23199	9	--	6	6	31
23200	8	--	31	7	13
23201	10	--	6	4	43
23202	<1	--	6	4	90
23203	1	--	6	4	135
23204	4	--	18	4	150
23205	3	--	6	4	38
23206	1	--	5	4	33
UNITS	ppb	ppb	ppm	ppm	ppm
DET.LIM	1	1	2	4	2
SCHEME	FA3	FA3	AA1	AA1	AA1

amdel

Job: 4DN1535
O/N: 0897/NT786

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dp1	Cu	Pb	Zn
23207	3	--	8	6	125
23208	9	--	24	7	1200
23209	34	46	6	6	145
23210	2	--	5	6	88
23211	4	3	70	6	45
23212	1	--	38	7	23
23213	1	--	11	7	38
23214	6	--	6	6	490
23215	4	--	6	6	98
23216	7	8	33	4	94
23217	5	--	75	4	110
23218	3	--	6	4	81
23219	<1	--	34	7	66
23220	4	--	6	4	28
23221	1	--	6	4	34
23222	1	--	6	4	32
23223	<1	<1	42	4	6
23224	<1	--	6	4	13
23225	<1	--	6	6	22
23226	45	43	40	8	27
23227	1	--	6	6	28
23228	6	--	35	7	90

UNITS	ppb	ppb	ppm	ppm	ppm
DET.LIM	1	1	2	4	2
SCHEME	FA3	FA3	AA1	AA1	AA1

amdel

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Postal Address : P.O. Box 58, Berrimah, N.T. 0828
Telephone: (089) 322 637 Facsimile: (089) 323 531

Alexandra Hoschke
NORTH EXPLORATION
PO BOX 39443
WINNELLIE

NT 0821

ANALYSIS REPORT :

Your Reference	: 0898	Our Reference	: 4DN1590
Samples Received	: 07/11/94	Results Reported	: 11/11/94
Number of Samples	: 100	Report Pages	: 1 to 2

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

Approved Signature:

for

Mr Russell Holtham
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

amdel

Job: 4DN1590
O/N: 0898

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dpl	Cu	Pb	Zn
23229	2	--	105	75	105
23230	1	--	57	48	230
23231	2	2	84	43	380
23232	4	--	125	42	1010
23233	2	--	81	19	490
23234	1	--	53	23	195
23235	3	--	38	29	150
23236	1	--	<2	17	70
23237	1	--	28	14	83
23238	<1	--	25	15	77
23239	1	--	13	11	67
23240	1	--	16	7	54
23241	1	--	37	46	175
23242	<1	--	31	8	77
23243	<1	--	36	8	58
23244	<1	--	33	7	54
23245	<1	--	23	4	44
23246	<1	--	31	5	34
23247	<1	--	29	10	41
23248	<1	--	26	7	59
23249	<1	--	23	9	51
23250	<1	--	15	9	31
21651	<1	<1	6	8	27
21652	2	--	25	10	39
21653	<1	--	3	8	26
21654	<1	--	4	10	23
21655	1	--	18	13	38
21656	<1	--	2	7	21
21657	2	--	30	<4	27
21658	1	--	38	8	30
21659	1	--	46	14	56
21660	<1	--	58	13	71
21661	<1	--	115	23	160
21662	<1	--	62	14	81
21663	<1	--	65	26	135
21664	<1	--	135	28	220
21665	1	--	180	31	190
21666	<1	--	100	25	220
21667	<1	--	12	14	74
21668	<1	<1	18	11	60
21669	1	--	39	8	29
21670	4	--	180	90	60
21671	2	--	400	105	150
21672	<1	--	175	38	84
21673	<1	--	86	17	49
21674	1	--	31	8	19
21675	<1	--	21	4	12
21676	<1	--	230	31	36
21677	<1	--	42	13	25
21678	1	--	64	20	32
UNITS	ppb	ppb	ppm	ppm	ppm
DET.LIM	1	1	2	4	2
SCHEME	FA3	FA3	AA1	AA1	AA1

amdel

Job: 4DN1590
O/N: 0898

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dp1	Cu	Pb	Zn
21679	1	--	135	36	52
21680	<1	--	2	10	30
21681	<1	--	3	9	25
21682	<1	--	31	15	23
21683	<1	--	2	5	21
21684	<1	--	2	8	26
21685	<1	--	3	10	23
21686	<1	--	<2	6	23
21687	<1	--	2	<4	23
21688	<1	--	27	6	26
21689	<1	--	4	6	34
21690	<1	<1	2	4	35
21691	<1	--	24	6	39
21692	<1	--	2	6	27
21693	<1	--	<2	5	32
21694	1	--	<2	6	31
21695	2	--	2	10	28
21696	8	--	<2	<4	20
21697	19	21	2	7	18
21698	12	--	<2	6	11
21699	6	--	8	4	17
21700	1	--	2	<4	16
21701	<1	--	13	<4	21
21702	7	--	39	4	30
21703	1	--	40	4	24
21704	4	--	60	<4	44
21705	3	--	6	<4	23
21706	<1	--	30	10	29
21707	1	--	22	6	24
21708	1	--	29	5	42
21709	4	--	20	8	73
21710	14	17	39	6	51
21711	67	75	92	5	20
21712	15	--	130	11	26
21713	51	48	82	9	25
21714	4	--	41	5	22
21715	5	--	42	12	30
21716	9	--	38	11	26
21717	67	51	2	4	23
21718	6	--	3	8	25
21719	3	--	<2	6	24
21720	5	--	24	6	29
21721	5	--	24	7	23
21722	2	--	25	4	38
21723	5	4	63	7	27
21724	5	--	130	56	45
21725	1	--	17	5	33
21726	3	--	2	4	15
21727	7	7	13	4	83
21728	3	--	2	<4	19
UNITS	ppb	ppb	ppm	ppm	ppm
DET.LIM	1	1	2	4	2
SCHEME	FA3	FA3	AA1	AA1	AA1

amdel

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Alexandra Hoschke
NORTH EXPLORATION
PO BOX 39443
WINNELLIE

NT 0821

ANALYSIS REPORT :

Your Reference	: 0203/NT789	Our Reference	: 4DN1683
Samples Received	: 23/11/94	Results Reported	: 25/11/94
Number of Samples	: 174	Report Pages	: 1 to 4

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

Approved Signature:

for

Mr Russell Holtham
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

amdel

Job: 4DN1683
O/N: 0203/NT789

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dp1	Cu	Pb	Zn
23910	<1	--	9	<4	13
23911	5	--	22	<4	18
23912	1	--	9	5	20
23913	<1	--	4	<4	18
23914	<1	--	7	<4	15
23915	<1	--	11	<4	21
23916	<1	--	5	<4	18
23917	<1	--	8	<4	16
23918	<1	--	5	<4	20
23919	<1	--	5	<4	16
23920	<1	--	33	<4	14
23921	<1	--	14	<4	12
23922	4	--	11	<4	14
23923	<1	--	8	<4	17
23924	<1	--	11	<4	21
23925	<1	<1	8	<4	20
23926	<1	--	4	<4	18
23927	<1	--	9	<4	16
23928	9	8	8	<4	12
23929	<1	--	18	<4	16
23930	<1	--	6	<4	17
23931	<1	--	13	<4	14
23932	16	16	7	<4	15
23933	<1	--	5	<4	14
23934	9	--	7	<4	16
23935	11	--	19	4	12
23936	<1	--	8	4	16
23937	14	12	7	<4	15
23938	6	--	3	<4	50
23939	4	--	17	<4	23
23940	<1	--	8	<4	19
23941	8	--	7	<4	11
23942	4	--	4	<4	15
23943	<1	--	3	<4	12
23944	5	--	18	<4	41
23945	2	--	99	<4	28
23946	<1	--	7	<4	11
23947	<1	<1	4	<4	11
23948	1	--	42	<4	10
23949	<1	--	8	<4	14
23950	<1	--	3	<4	14
23951	<1	--	3	<4	12
23952	<1	--	3	<4	11
23953	<1	--	3	<4	11
23954	<1	--	2	<4	10
23955	2	1	2	<4	10
23956	<1	--	6	<4	9
23957	2	--	7	<4	20
23958	1	--	5	<4	10
23959	<1	--	11	<4	21
UNITS	ppb	ppb	ppm	ppm	ppm
DET.LIM	1	1	2	4	2
SCHEME	FA3	FA3	AA1	AA1	AA1

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Job: 4DN1683
O/N: 0203/NT789

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dp1	Cu	Pb	Zn
23960	4	--	13	13	13
23961	1	--	8	<4	25
23962	<1	--	3	<4	75
23963	<1	--	7	<4	69
23964	<1	--	16	<4	21
23965	2	--	21	4	37
23966	1	--	10	<4	19
23967	3	--	16	<4	40
23968	3	--	5	<4	21
23969	2	--	3	<4	16
23970	<1	--	3	<4	18
23971	<1	--	3	<4	23
23972	<1	<1	11	<4	21
23973	<1	--	6	<4	38
23974	<1	--	10	<4	25
23975	6	--	11	<4	24
23976	3	--	18	6	26
23977	<1	--	7	<4	17
23978	2	--	11	<4	26
23979	<1	--	4	<4	19
23980	<1	--	8	<4	14
23981	<1	--	4	<4	32
23982	<1	--	7	<4	37
23983	<1	--	6	<4	20
23984	<1	--	4	<4	18
23985	<1	--	7	<4	14
23986	<1	--	4	<4	16
23987	<1	--	6	<4	16
23988	<1	--	7	<4	16
23989	7	--	6	<4	21
23990	13	12	9	<4	23
23991	12	--	15	<4	20
23992	<1	--	5	<4	14
23993	<1	--	5	<4	32
23994	<1	--	18	13	87
23995	<1	<1	30	82	150
23996	<1	--	21	10	94
23997	3	--	13	<4	30
23998	<1	--	14	<4	22
23999	<1	--	12	5	22
24000	<1	--	31	6	26
24901	14	13	25	7	23
24902	<1	--	7	<4	16
24903	8	10	28	9	18
24904	27	30	21	5	16
24905	<1	--	6	<4	13
24906	<1	--	21	4	12
24907	<1	--	7	4	13
24908	<1	--	4	<4	12
24909	<1	--	4	<4	14
UNITS	ppb	ppb	ppm	ppm	ppm
DET.LIM	1	1	2	4	2
SCHEME	FA3	FA3	AA1	AA1	AA1

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Job: 4DN1683
O/N: 0203/NT789

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dp1	Cu	Pb	Zn
24910	<1	--	6	<4	18
24911	8	--	10	<4	14
24912	<1	--	23	<4	14
24913	<1	--	5	<4	12
24914	<1	--	37	4	13
24915	<1	--	10	<4	11
24916	<1	--	11	<4	13
24917	<1	--	15	4	11
24918	5	--	32	11	14
24919	1	--	12	<4	12
24920	<1	--	9	<4	14
24921	11	10	49	<4	13
24922	<1	--	18	<4	11
24923	<1	--	10	<4	10
24924	<1	--	14	<4	11
24925	<1	--	9	<4	13
24926	<1	<1	7	<4	22
24927	<1	--	5	<4	16
24928	<1	--	4	<4	27
24929	<1	--	2	<4	35
24930	<1	--	2	<4	78
24931	<1	--	3	<4	38
24932	7	--	3	5	74
24933	<1	--	3	<4	16
24934	<1	--	6	<4	12
24935	<1	--	4	<4	10
24936	<1	--	2	<4	9
24937	<1	--	3	<4	12
24938	<1	--	7	<4	13
24939	<1	<1	5	<4	12
24940	<1	--	6	<4	7
24941	<1	--	5	<4	9
24942	<1	--	3	<4	9
24943	5	--	5	<4	10
24944	<1	--	4	<4	11
24945	<1	--	7	<4	10
24946	120	116	97	8	36
24947	1	--	9	<4	12
24948	843	878	340	10	23
24949	34	38	18	<4	10
24950	10	9	18	4	10
24951	24	--	40	5	11
24952	9	--	25	<4	8
24953	30	35	12	<4	87
24954	16	--	10	<4	600
24955	13	--	11	<4	16
24956	25	23	9	<4	21
24957	18	--	20	8	10
24958	20	--	190	<4	25
24959	<1	--	30	<4	8
UNITS	ppb	ppb	ppm	ppm	ppm
DET.LIM	1	1	2	4	2
SCHEME	FA3	FA3	AA1	AA1	AA1

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Job: 4DN1683
O/N: 0203/NT789

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dp1	Cu	Pb	Zn
24960	<1	--	7	<4	12
24961	7	--	12	4	25
24962	3	--	11	<4	14
24963	<1	--	6	<4	11
24964	15	--	37	4	12
24965	65	76	740	73	27
24966	89	86	50	21	23
24967	2	--	14	<4	24
24968	17	--	7	<4	9
24969	14	--	5	<4	13
24970	16	--	9	<4	12
24971	10	--	8	4	14
24972	<1	--	4	<4	12
24973	58	58	8	<4	22
24974	<1	--	6	4	14
24975	<1	--	8	<4	14
24976	3	--	34	<4	16
24977	21	--	38	6	18
24978	19	--	12	<4	11
24979	25	30	19	<4	11
24980	26	--	18	8	17
24981	30	35	12	4	10
19551	<1	<1	240	89	4
19552	<1	--	115	16	6
UNITS	ppb	ppb	ppm	ppm	ppm
DET.LIM	1	1	2	4	2
SCHEME	FA3	FA3	AA1	AA1	AA1

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Alexandra Hoschke
NORTH EXPLORATION
PO BOX 39443
WINNELLIE

NT 0821

ANALYSIS REPORT :

Your Reference	: NT-F0204	Our Reference	: 4DN1720
Samples Received	: 30/11/94	Results Reported	: 05/12/94
Number of Samples	: 73	Report Pages	: 1 to 2

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

Approved Signature:

for

Mr Russell Holtham
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

amdel

Job: 4DN1720
O/N: NT-F0204

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dp1	Cu	Pb	Zn
24982	10	14	39	110	150
24983	3	3	40	21	75
24984	1	--	45	6	57
24985	2	--	51	10	63
24986	1	--	57	5	44
24987	<1	--	44	7	38
24988	2	--	21	19	48
24989	2	--	15	33	115
24990	4	3	47	12	48
24991	<1	--	36	14	51
24992	1	--	51	54	160
24993	<1	--	44	110	210
24994	<1	--	27	110	195
24995	<1	--	28	95	160
24996	<1	--	29	55	155
24997	<1	--	33	47	130
24998	<1	--	54	27	95
24999	1	--	88	18	55
25000	2	--	40	16	45
25001	1	--	49	14	49
25002	2	--	30	115	37
25003	1	--	140	56	90
25004	1	--	65	18	52
25005	1	--	80	11	43
25006	<1	--	52	8	44
25007	1	--	38	6	45
25008	1	--	28	7	55
25009	4	5	38	32	115
25010	7	8	24	35	125
25011	2	--	50	110	220
25012	2	--	36	6	62
25013	<1	--	36	9	65
25014	<1	--	29	95	160
25015	2	--	33	44	100
25016	1	--	49	14	49
25017	2	--	85	86	89
25018	2	--	90	32	56
25019	2	--	340	62	54
25020	<1	--	110	45	115
25021	2	--	220	43	175
25022	14	15	340	125	99
25023	<1	--	330	210	450
25024	<1	--	200	70	96
25025	<1	--	195	41	81
25026	<1	--	165	63	66
25027	<1	--	125	21	57
25028	7	6	140	79	51
25029	4	--	64	56	54
25030	2	--	230	600	120
25031	3	1	46	150	67
UNITS	ppb	ppb	ppm	ppm	ppm
DET.LIM	1	1	2	4	2
SCHEME	FA3	FA3	AA1	AA1	AA1

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Job: 4DN1720
O/N: NT-F0204

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dp1	Cu	Pb	Zn
25032	2	--	62	30	70
25033	<1	--	60	39	66
25034	<1	--	58	185	660
25035	<1	--	92	115	300
25036	<1	--	145	76	390
25037	<1	--	145	125	330
25038	<1	--	160	145	210
25039	<1	--	160	195	340
25040	<1	--	165	170	140
25041	<1	--	220	320	440
25042	<1	<1	220	180	210
25043	<1	<1	180	72	40
25044	<1	<1	175	86	26
25045	<1	<1	190	82	25
25046	<1	<1	150	71	26
25047	<1	<1	130	99	190
25048	<1	--	135	220	94
25049	<1	--	130	130	135
25050	<1	<1	64	42	250
25051	<1	--	28	39	210
25052	<1	--	17	14	39
25053	<1	--	10	15	79
25054	<1	--	12	14	23
UNITS	ppb	ppb	ppm	ppm	ppm
DET.LIM	1	1	2	4	2
SCHEME	FA3	FA3	AA1	AA1	AA1

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WINNELLIE

NT 0821

ANALYSIS REPORT :

Your Reference	: 0205	Our Reference	: 4DN1750
Samples Received	: 06/12/94	Results Reported	: 08/12/94
Number of Samples	: 63	Report Pages	: 1 to 2

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

Approved Signature:

for

Mr Russell Holtham
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

amdel

Job: 4DN1750
O/N: 0205

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dp1	Cu	Pb	Zn
25055	<1	--	39	11	110
25056	<1	--	25	25	230
25057	10	11	42	15	155
25058	<1	--	34	39	175
25059	<1	<1	20	24	96
25060	<1	--	36	8	24
25061	<1	--	69	5	40
25062	<1	--	36	8	42
25063	<1	--	45	6	46
25064	20	25	44	6	50
25065	4	--	39	5	41
25066	7	--	48	9	125
25067	10	13	43	47	165
25068	<1	--	15	8	34
25069	13	16	53	6	320
25070	<1	--	30	16	49
25071	<1	--	31	5	17
25072	<1	--	42	4	25
25073	14	14	32	8	83
25074	110	112	76	7	42
25075	<1	--	38	6	34
25076	<1	--	22	6	26
25077	<1	--	14	5	23
25078	<1	--	60	4	25
25079	<1	--	22	4	20
25080	<1	--	22	6	20
25081	<1	--	23	4	21
25082	24	26	60	6	29
25083	<1	<1	60	5	24
25084	<1	--	30	4	14
25085	<1	--	16	4	19
25086	<1	--	51	8	18
25087	<1	--	21	7	18
25088	<1	--	38	6	19
25089	11	11	36	4	35
25090	<1	--	34	32	56
25091	<1	--	30	65	135
25092	<1	<1	24	15	79
25093	<1	--	14	18	45
25094	<1	--	13	9	29
25095	<1	--	24	18	45
25096	<1	--	13	15	72
25097	<1	--	41	13	91
25098	<1	--	16	46	105
25099	<1	--	21	25	71
25100	<1	--	26	34	220
25101	<1	--	16	7	35
25102	12	12	8	25	68
25103	8	10	24	40	86
25104	<1	--	12	29	62
UNITS	ppb	ppb	ppm	ppm	ppm
DET.LIM	1	1	2	4	2
SCHEME	FA3	FA3	AA1	AA1	AA1

amdel

Job: 4DN1750
O/N: 0205

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dpl	Cu	Pb	Zn
25105	2	--	28	61	135
25106	<1	--	17	31	64
25107	<1	--	15	18	34
25108	<1	--	18	12	42
25109	<1	--	25	10	33
25110	3	--	45	28	35
25111	<1	--	20	32	52
25112	<1	<1	28	19	38
25113	<1	--	34	16	32
25114	<1	--	20	10	38
25115	<1	--	21	8	65
25116	<1	--	18	6	140
25117	<1	<1	9	18	53
UNITS	ppb	ppb	ppm	ppm	ppm
DET.LIM	1	1	2	4	2
SCHEME	FA3	FA3	AA1	AA1	AA1

APPENDIX 3
Down Hole Camera Surveys

APPENDIX 3

Drill Hole Camera Surveys

HOLE No.	FDH 3	FDH 4	FDH 5
AMG CO-ORDS E N	 744900 8483000	 742025 8484000	 741900 8485500
SURFACE INCLINATION (deg) AZIMUTH (AMG)	70 045	70 090	70 270
SURVEY DEPTH (m) INCLINATION (deg) AZIMUTH (mag)	145 74 043	141 73.5 ?	153 64.5 ?
SURVEY DEPTH (m) INCLINATION (deg) AZIMUTH (mag)		147 74 ?	200.9 61.5 266
SURVEY DEPTH (m) INCLINATION (deg) AZIMUTH (mag)		194.8 73 094	263.5 61 ?

APPENDIX 4
Petrology Reports

FENTON THIN SECTIONS

HOLE No.	DEPTH (m)	SECTION No
FDH1	82.50	TS4
	84.00	TS1
	88.50	TS2
	91.05	TS3
	133.60	TS6
	140.25	TS7
	142.20	TS26
	142.50	TS5
	161.15	TS8
	181.50	TS28
	196.70	TS27
	231.70	TS9
	288.60	TS10
FDH2	87.00	TS12
	88.40	TS11
	90.00	TS13
	184.00	TS14
	187.00	TS15
	193.00	TS16
	196.00	TS17
	198.00	TS18
	203.50	TS19
	205.30	TS20
	207.00	TS21
	213.00	TS22
	222.00	TS23
	224.00	TS24
	235.00	TS25
FDH3	136.50	23707
	201.90	23708
FDH4	133.20	23706
FDH5	109.80	23701
	119.10	23702
	174.60	23703
	192.20	23704
	258.600	23705

Pontifex & Associates Pty. Ltd.

TELEPHONE (08) 332 6744
FAX (08) 332 5062

26 KENSINGTON ROAD, ROSE PARK
SOUTH AUSTRALIA 5067
A.C.N. 007 521 084

P.O. BOX 91, KENT TOWN
SOUTH AUSTRALIA 5071

MINERALOGICAL REPORT NO. 6564

by A.C. Purvis, PhD

February 2nd, 1994

TO : Geopeko
Unit 1A, 390 Stuart Hwy
DARWIN NT 0820

Attention : R. Sowerby

YOUR REFERENCE : Letter from R. Sowerby dated 28/1/94

MATERIAL : 25 quarter drill samples, Pine Creek

IDENTIFICATION : FEN-TS/1 to FEN-TS/25

WORK REQUESTED : Thin and polished thin section preparation, petrographic description and report, with comments as specified.

SAMPLES & SECTIONS : Returned to you with this report.

PONTIFEX & ASSOCIATES PTY. LTD.

SUMMARY COMMENTS

Twenty five samples of diamond drill core from the Pine Creek inlier in the Northern Territory are described in this report, using 13 polished thin sections and 12 normal thin sections.

Pelitic schists (FEN-TS2, 3, 6, 9) and hornfelses (FEN-TS10) are common, as well as metamorphic probable acid volcanic rocks (FEN-TS4, 5, 7, 8). These are mostly rich in quartz and muscovite or sericite, with biotite and/or felspar in some samples. Tourmaline is common in samples FEN-TS2-7 and 9 in this group as well as in FEN-TS1, which is vein material composed of quartz, carbonate, pyrite, tourmaline and hematite with minor chalcopyrite and arsenopyrite. Veins with sulphides and/or tourmaline and/or hematite, usually with quartz and/or carbonate, are common in this group of samples (FEN-TS 1-10) with arsenopyrite and/or pyrite as the most abundant sulphide. Possible bismuthinite occurs only in FEN-TS7.

The probable hornfels in FEN-TS10 is different from the other samples in having abundant biotite and plagioclase, with some large poikiloblastic grains of garnet and sulphides in veins with chlorite and adularia. Some adularia is also present in FEN-TS3.

Graphite is abundant in FEN-TS6, but is more abundant in highly altered samples FEN-TS11-14. Of these FEN-TS11 is a pelitic schist, but is richer in chlorite and poorer in muscovite than those listed above. This sample may mark a transition into felspar-quartz-muscovite-(chlorite-carbonate) rocks, mostly with adularia (FEN-TS12-13) and with abundant graphite (FEN-TS12-14). Of these, only FEN-TS14 has abundant sulphide (pyrite and chalcopyrite), whereas FEN-TS12 has rare pyrrhotite and FEN-TS13 is apparently sulphide-free. Residual andalusite occurs in FEN-TS14 with sericitsed plagioclase, suggesting that hornfelsing may have affected these samples.

Sample FEN-TS21 was apparently a quartzofelspathic metasediment with disseminated graphite and pyrrhotite. It has fresh biotite and muscovite as well as plagioclase and some alkali felspar and is possibly not closely related to the graphitic samples listed above.

Fine grained granitoids occur in FEN-TS15, 17, 18 and 19 (broadly tonalitic) and FEN-TS24-25 (micromonzogranite). Muscovite-sericite-chlorite alteration is common in these samples, with disseminated pyrrhotite and rare pyrite in most samples except for FEN-TS19, which has rare probable sphalerite. Coarser granitoids occur in FEN-TS22-23 and are monzogranites

with clouded plagioclase and similar muscovite-chlorite alteration. Some unusual minerals (prehnite and possible xonotlite [$Ca_6Si_6O_{17}(OH)_2$], the latter indicating very low CO_2 partial pressures) occur in some of these granitoids, locally with some clinozoisite.

Amphibolites (FEN-TS16, 20) occur with pale brown hornblende, plagioclase totally altered to sericite ± clinozoisite ± prehnite and minor sulphide (probably pyrrhotite). Biotite in these amphibolites is mostly schistose, locally occurring in discrete shears and has been weakly to almost totally altered to prehnite. Minor quartz is disseminated as well as fine opaque oxide grains and a basaltic protolith is suggested.

Metamorphism was mostly of low grade, except for some samples possibly modified by granitic intrusion, such as the pelitic hornfels (FEN-TS10) the retrogressed graphitic rocks (FEN-TS12-14), the amphibolites (FEN-TS16, 20) and possibly FEN-TS21.

The veins represent high fugacities of oxygen and/or sulphur, with pyrite and/or arsenopyrite and hematite common and low pH values indicated by tourmaline and muscovite. The disseminated sulphides commonly represent lower fugacities of oxygen and sulphur, with pyrrhotite ± rutile in some samples, especially those with graphite. The altered granitoids show complex associations of micas and calc silicates and are more difficult to quantify in terms of pH but low sulphur fugacities are indicated by the abundant of pyrrhotite. Reddish felspars in some of thee rocks may be of very low-grade origin, unrelated to the sulphides.

TABLE 1

LIST OF SAMPLES DESCRIBED IN REPORT No 6564

FEN-TS No	Lithology	Comments
1	Vein material	Quartz-carbonate-pyrite-hematite-tourmaline-(chalcopyrite-arsenopyrite).
2	Pelitic schist	Quartz-muscovite-plagioclase-biotite-tourmaline schist with quartz-muscovite-tourmaline and quartz-carbonate-pyrite-hematite-chalcopyrite-tourmaline veins; rare arsenopyrite.
3	Pelitic schist	Quartz-muscovite-plagioclase-tourmaline schist with veins containing quartz, carbonate, sulphides, adularia, and limonite in various proportions.
4	?Acid volcanic	Quartz-muscovite-tourmaline schist with carbonate and leucoxene; possible quartz phenocrysts.
5	?Acid volcanic	Quartz-muscovite schist with possible volcanic quartz; boudinaged veins of quartz, tourmaline, pyrite and rare arsenopyrite.
6	Graphitic sediment	Quartz-muscovite-(tourmaline) schist with graphite and complex laminated quartz-tourmaline-sericite-arsenopyrite-pyrite-hematite veins carrying screens of altered schist.
7	?Acid volcanic	Quartz-sericite-tourmaline schist with trace zircon, and a breccia-like complex quartz-tourmaline-arsenopyrite-pyrite-hematite-chalcopyrite-plagioclase-sericite vein with accessory possible bismuthinite.

FEN-TS No	Lithology	Comments
8	Felsic igneous rock	Albite-quartz-sericite rock passing into albite-sericite-quartz and quartz-sericite-albite schist, with chlorite-carbonate-sulphide, passing into quartz-albite-sericite-rutile and quartz-sulphide veins; pyrite ± marcasite.
9	?Pelitic schist breccia	Quartz-muscovite schist blocks in quartz-sulphide-muscovite-tourmaline veins, with arsenopyrite > pyrrhotite > chalcopyrite.
10	?Pelitic hornfels	Banded quartz-biotite-plagioclase hornfels with rare poikiloblastic garnet; pyrite-rich bands or veins with adularia, chlorite, chalcopyrite and rare pyrrhotite/
11	?Pelitic schist, carbonaceous	Quartz-chlorite schist with minor muscovite, carbonate, limonite and hematite; disseminated graphite.
12	Graphitic sediment	Adularia-quartz-muscovite-graphite-rutile rock with rare pyrrhotite
13	Graphitic sediment	Adularia-quartz-muscovite-graphite rock
14	Graphitic sediment	Quartz-felspar-muscovite-chlorite-pyrite-chalcopyrite-(andalusite) rock
15	Aplitic microtonalite	Albitised with sparse plagioclase and biotite phenocrysts; minor muscovite-pyrrhotite-pyrite patches.
16	Amphibolite (metabasalt)	Biotite amphibolite with totally sericitised plagioclase, minor quartz, and prehnite in altered biotite.

FEN-TS No	Lithology	Comments
17	Microtonalite porphyry	Albitised with plagioclase phenocrysts and an aplitic groundmass c.f. FEN-TS15; minor muscovite, chlorite, clinozoisite, prehnite, pyrrhotite and rutile
18	Tonalite	Albite-sericite-(muscovite-prehnite-calcite-?xonotlite) alteration; minor pyrrhotite and chlorite
19	Tonalite	Albite-(sericite-prehnite) alteration with opaque oxides and possible sphalerite.
20	Amphibolite (metabasalt)	Similar to FEN-TS16 with sericitised plagioclase, minor quartz, clinozoisite, prehnite and minor sulphide.
21	Quartzofelspathic sediment	Quartz-plagioclase-(alkali felspar)-biotite-muscovite-pyrrhotite rock with rare pyrite (in fractures).
22	Leucocratic monzogranite	Minor muscovite, chlorite, prehnite, pyrrhotite and rutile.
23	Leucocratic monzogranite	Minor muscovite, chlorite and pyrrhotite; weakly gneissic but similar to FEN-TS22.
24	Micromonzogranite	Porphyritic with patches of quartz, muscovite, pyrrhotite and rare pyrite, some disseminated sulphide ± chlorite
25	Micromonzogranite	Apparently aphyric with more abundant quartz-muscovite lenses, also pyrrhotite, pyrite and rare chlorite.

INDIVIDUAL DESCRIPTIONS

FEN-TS1 **Quartz-carbonate-pyrite-tourmaline vein material with minor chalcopyrite and hematite, and rare arsenopyrite.**

Masses of sulphide dominate this sample, enclosing lenses and patches of coarse quartz and carbonate to 25 x 15 mm, typically with very minor tourmaline, disseminated and in very small lenses. Individual grains of quartz and tourmaline occur commonly in the sulphide masses, and there are some areas of secondary porosity.

Coarse pyrite is the main sulphide with a dendritic fracture pattern. Minor fine chalcopyrite is present in the matrix with disseminated granular probable hematite and fine bladed specular hematite. Some of the chalcopyrite is rimmed with fine porous pyrite ± marcasite and encloses granular hematite. There is rare arsenopyrite.

FEN-TS2

Banded quartz-muscovite-plagioclase-biotite-tourmaline schist with quartz-muscovite-tourmaline and quartz-carbonate-pyrite-hematite-chalcopyrite-tourmaline veins; very minor arsenopyrite.

Roughly centimetre-scale bedding is evident in this sample, which is a weakly felspathic quartz-muscovite-biotite schist with disseminated tourmaline. The different layers are variously micaceous to quartz-rich, with muscovite greatly dominant over biotite and quartz over plagioclase. Lenticular, commonly boudinaged veins are common. The smaller veins are quartz-muscovite-tourmaline-filled, while the larger, more obviously boudinaged veins are quartz-carbonate-sulphide-tourmaline veins. Zones rich in muscovite ± sericitised plagioclase are common adjacent to the wider boudinaged veins.

The veins contain mostly granular pyrite with some poikiloblastic granular probable hematite and minor finely disseminated chalcopyrite. In one of the veins, porous poikiloblastic hematite is more abundant than sulphide, mostly chalcopyrite. Some disseminated pyrite and arsenopyrite are present.

FEB-TS3

Quartz-muscovite-plagioclase-tourmaline schist with variously early (boudinaged) to late (cross-cutting) veins containing quartz, carbonate, sulphides, adularia, and limonite in various combinations.

This is a broadly similar schist to that in TS2 but apparently without biotite and more uniform in composition. It is essentially a quartz-muscovite schist with minor sericite-albite-altered plagioclase and disseminated schistose tourmaline. Veins of various generations, including early boudinaged veins and later cross cutting post-tectonic veins are evident. The earlier veins contain quartz, carbonate, sulphide (pyrite) and limonite ± lenses of adularia. Later quartz-carbonate-adularia-sulphide veins and carbonate-sulphide veins are present, the carbonate-sulphide veins being apparently the latest. A narrow carbonate-sulphide vein, which may be relatively early, is present and is essentially layer-parallel.

FEN-TS4

Quartz-muscovite-tourmaline schist with carbonate and leucoxene, and limonite veining and staining; possibly of acid volcanic origin.

This sample has been cut parallel to the schistosity, but can be seen to have disseminated coarse, possibly volcanic quartz grains about 1 mm in diameter, in a fine matrix of quartz-muscovite schist with disseminated tourmaline. Some muscovite lamellae occur at a high angle to the plane of the this section and these, together with the tourmaline prisms, define a possibly second schistosity. Irregular lenses of carbonate are also evident to 10 mm wide. Disseminated leucoxene is common and there is minor possible sulphide.

Areas of disseminated limonite extend outwards parallel to the schistosity from cross cutting limonite lined fractures.

A former acid volcanic rock is suggested by the disseminated quartz grains (?phenocrysts).

FEN-TS5

Quartz-muscovite schist with possibly volcanic quartz; boudinaged veins of quartz, tourmaline and sulphides (apparently pyrite >> arsenopyrite).

This finely banded quartz-muscovite schist has some large quartz grains about 0.5 mm in diameter, as in the previous sample, but less clearly phenocrystal. Complex boudinaged and/or lenticular veins of quartz, tourmaline and sulphide are abundant and up to 4 mm wide. The sulphide appears to be mostly pyrite, but rare arsenopyrite is apparently present.

An acid volcanic protolith is possible for this sample but is less definite than for the previous sample.

FEN-TS6

Graphitic quartz-muscovite-(tourmaline) schist with complex laminated quartz-tourmaline-sericite-arsenopyrite-pyrite-hematite veins containing lenses and screens of altered country rock.

The host rock in this sample is a weakly graphitic quartz-muscovite schist with disseminated tourmaline, commonly in small patches and in small veins with quartz, tourmaline and graphite. A wide folded vein is present in this sample, with screens, lamellae and fragments of tourmaline-sericite rock, apparently representing tourmalinised and/or sericitised host rock. Some screens of finely recrystallised quartz ± graphite are also present, but most of the vein is relatively coarse polygonal quartz. Coarse sulphide is also abundant, especially on the nose of a fold in the vein, where tourmaline also extends into the adjacent host rock. Most of the other sulphide is in tourmaline-rich screens in and selvedges on this main vein.

The sulphide is coarse grained with arsenopyrite apparently slightly more abundant than massive pyrite. Some porous pyrite is present and the vein contains granular to bladed hematite 0.1 to 1 mm in grainsize. Chalcopyrite is very rare.

FEN-TS7

Quartz-sericite-(tourmaline) schist, probably of acid volcanic origin, with accessory zircon, in contact with a complex breccia-like quartz-tourmaline-sulphide vein with arsenopyrite, pyrite, chalcopyrite, hematite and possible bismuthinite as well as minor felspar and sericite.

A small area of host rock attached to this sample is of quartz-muscovite schist with minor tourmaline disseminated and in small lenses. Large single crystal quartz grains and polycrystalline quartz grains to 1 mm maximum diameter are possibly volcanic phenocrysts. Rare euhedral zircon crystals occur in this schist.

This schist is in contact with a vein rich in quartz, which in some areas has abundant well-developed deformation lamellae, but is elsewhere recrystallised and apparently strain-free. Complex irregular masses, ranging from quartz-rich to nearly pure tourmaline are abundant, with some sericite probably after felspar and some alkali felspar grains, as well as irregular masses of sulphide. The texture is extremely heterogeneous but suggests a breccia of largely tourmalinised rock with a matrix of quartz and sulphide.

Massive to poikiloblastic pyrite is the main sulphide but there is also abundant coarse, commonly porphyroblastic fractured arsenopyrite and minor fine to medium-grained chalcopyrite. Small cubes of pyrite occur locally in the chalcopyrite. Rare patches of a strongly anisotropic fine bladed sulphide are evident adjacent to arsenopyrite grains. These are of a silvery white colour in reflected light and could be a bismuth or antimony mineral, possibly bismuthinite (Bi_2S_3). Anomalous assays for Bi and/or Sb would indicate more clearly the nature of this mineral.

FEN-TS8

Granular albite-quartz-sericite rock passing into albite-sericite-quartz schist and into quartz-sericite-albite schist; chlorite-carbonate-sulphide veins passing into quartz-albite-sericite-rutile and quartz-sulphide veins.

Part of this sample is an altered granular, possibly felsic igneous rock, with albite-sericite altered small felspar grains about 0.5 mm in diameter and minor quartz. This lithology passes into a fine grained albite-rich schist with minor quartz and schistose sericite and then into a fine grained quartz-sericite schist with minor albite. The schist is partly fractured to fragmented on a millimetre to centimetre-scale, with veins of chlorite, carbonate and sulphide. These veins pass into veins in the albite-rich rock which are mostly quartz-rich but have areas rich in coarse clouded albite together with muscovite and rutile. Other areas in these veins are rich in quartz and sulphide. Some chlorite to sulphide-rich veins appear to post-date these quartz to albite-rich veins however and there are locally patches with fine capillaries of pyrite (as opposed to veins).

The main sulphide is massive to poikiloblastic pyrite, ranging from very fine-grained to very coarse, with some patches of porous pyrite ± marcasite, possibly after pyrrhotite.

FEN-TS9 **Blocks of quartz-muscovite schist in quartz-sulphide vein material with minor muscovite and tourmaline.**

In this sample there are abundant blocks of quartz-muscovite schist with a spaced schistosity, possibly originating as a crenulation cleavage and partly folding muscovite-rich selvedges on some of the abundant veins in this sample. Some possible recrystallised quartz phenocrysts occur but these are not as well-defined as in some of the previous samples.

The veins are essentially recrystallised quartz and sulphide, but include disseminated muscovite and lenses of schistose fibrous green tourmaline.

Coarse arsenopyrite is the main sulphide, with irregular inclusions of pyrrhotite ± chalcopyrite. Minor to quite abundant pyrrhotite occurs as anhedral grains in some of the veins, mostly enclosing euhedral arsenopyrite. Minor chalcopyrite occurs as well as, or instead of, pyrrhotite in these veins.

FEN-TS10 **Banded quartz-biotite-plagioclase hornfels with rare garnet and pyrite-quartz-rich bands with adularia and chlorite; very minor chalcopyrite and rare pyrrhotite.**

Banding on a millimetre to centimetre scale is evident in this sample, which is a hornfels composed largely of quartz and biotite ± minor sericitised plagioclase. The abundance and grainsize of the biotite and quartz vary considerably, but most of the rock is very fine grained. One of the most biotite-rich bands has large poikiloblastic porphyroblasts of garnet to 4 mm diameter locally pulled apart and veined by quartz and biotite. Some of the adjacent bands are rich in quartz and sulphide, with very minor chlorite and sericite after relatively coarse plagioclase. These bands may represent layer-parallel veins and contain lenses of adularia. The adularia probably postdates the main stage of vein formation but may be coeval with the chlorite. A reaction:

$$2 \text{ biotite} + 3 \text{ Garnet} + 10\ H_2O = 3 \text{ Chlorite} + 2 \text{ Adularia}$$

possibly relates the vein to the host rock.

Porous grains of pyrite with an amoeboid habit constitute the bulk of the sulphide with rare inclusions of pyrrhotite. Very minor chalcopyrite accompanies the pyrite.

FEN-TS11 **Banded quartz-chlorite schist with minor muscovite, carbonate and limonite, and disseminated graphite.**

Diffuse millimetre to centimetre scale banding is evident in this sample, with different proportions of granular quartz and fine retrograde chlorite, ± muscovite and carbonate. Relatively abundant hematite occurs and serves to emphasize the banding, although it occurs largely as complex anastomosing veins. Disseminated graphite is common.

FEN-TS12 **Adularia-quartz-muscovite-graphite-rutile rock with traces of pyrrhotite.**

There are some similarities between this sample and that in the previous thin section. However, this sample is not clearly banded but has coarse decussate muscovite in veins and lenses, as well as patches of coarse carbonate ± quartz, which are all relatively poor in graphite in a matrix altered to sericite ± chlorite ± adularia with about 25% graphite. The graphite is strongly foliated and occurs as flakes to 150μm long. Disseminated rutile in this sample has small inclusions of probable pyrrhotite, indicating a combination of lower than usual fO_2 and fS_2 conditions as otherwise the pyrrhotite and rutile would react to form ilmenite.

FEN-TS13 **Adularia-quartz-muscovite-graphite rock.**

This sample is rich in graphite, disseminated and in stylolite-like veins and is similar to that in the previous sample with patches of decussate muscovite and of quartz. It has largely been altered to clouded adularia, with some clear adularia, mostly granular, but locally euhedral against quartz. Patches of fine clays are also disseminated.

This sample is mostly fine grained, except for the muscovite and some of the quartz.

FEN-TS14 **Graphitic quartz-felspar-muscovite-chlorite-pyrite-chalcopyrite rock, with minor residual andalusite.**

Like the previous two samples, this sample is rich in graphite but in this sample the graphite is concentrated into bands with quartz and sericitised felspar. Bands and lenses of coarse quartz and/or coarse decussate muscovite ± chloritised probable biotite are abundant but poor in graphite. Roughly rectangular patches of coarse muscovite appear to have replaced porphyroblasts of andalusite and rare residual andalusite occurs in one of these patches.

Sulphide is abundant in this sample and is mostly disseminated in irregular lenses to 4 mm long. Massive to poikiloblastic to porous pyrite is the dominant sulphide, with rare chalcopyrite.

FEN-TS15 **Albitised aplite with sparse altered phenocrysts of plagioclase and biotite, minor muscovite and sulphide (pyrrhotite >> pyrite)..**

Sparse phenocrysts of weakly sericitised albitised plagioclase and of chlorite-muscovite-altered biotite occur in this sample, which is mostly an "aplitic" quartzofelspathic micromosaic composed of albitised, weakly sericitised plagioclase and quartz. Some muscovite is disseminated and some occurs in vein-like lenses with sulphide grains. Some disseminated sulphide is also present. The grainsize is mostly 0.1 to 0.8 mm with phenocrysts to 2 mm long. Pyrrhotite is the dominant sulphide as lenses to 0.5 mm long. There is rare pyrite.

FEN-TS16

Amphibolite, probably a metabasalt, with totally sericitised plagioclase, pale brown hornblende, and biotite partly altered to prehnite.

Fine-grained granular to poikiloblastic pale brown hornblende and totally sericitised fine granular plagioclase dominate this sample, which is an amphibolite with disseminated schistose pale magnesian biotite of phlogopite. Some of the biotite has been altered and has interlaminated prehnite or rarely, clinozoisite. Minor disseminated fine granular quartz is present, possibly a by-product of the conversion of pyroxenes + plagioclase to hornblende (+ quartz). Fine opaque oxide grains are common and up to 0.2 mm in size. A former basalt is indicated by the mineralogy and the grainsize of the opaque oxide.

FEN-TS17

Albitised microtonalite porphyry with muscovite, chlorite, clinozoisite, prehnite, pyrrhotite and rutile.

The groundmass in this sample is a weakly sericitised and albitised "aplitic" quartzofelspathic micromosaic as in sample FEN-TS15. However, in this sample, there are abundant zoned plagioclase phenocrysts to 3 mm long, commonly arranged in bands and sharing a weak overall parallelism with disseminated foliated muscovite. Sparse disseminated sulphide occurs with clinozoisite and prehnite and there are some chlorite flakes with interlaminated prehnite, which may have formed from biotite. The sulphide, which occurs as lenses to 2 mm long, appears to be mostly pyrrhotite. Minor rutile is disseminated.

FEN-TS18

Tonalite with albite-sericite-(muscovite-prehnite-calcite-?xonotlite) alteration, also minor sulphide and chloritic clays.

This sample was originally a coarse equigranular tonalite with most grains from 2 to 5 mm in size. The plagioclase has been totally altered to albite and sericite, with sericite commonly 20-45% of individual grains. Some coarse muscovite is present and there are also, in some areas, large plates of prehnite to 4 mm diameter and small bundles of a mineral optically similar to xonotlite, as well as minor calcite. About 25% interstitial late magmatic quartz is present as anhedral grains to 4 mm long. Minor sulphide is disseminated as small patches with chloritic clays ± muscovite, prehnite, calcite and/or ?xonotlite.

FEN-TS19

Albite-muscovite-(sericite-prehnite) altered tonalite with opaque oxides and ?sphalerite.

This was a similar tonalite to that in the previous sample, but with more abundant (~30-35%) quartz and with less abundant sericite in the albitised plagioclase. Muscovite flakes to 1.5 mm long are more abundant than in the previous sample but prehnite is less abundant and finer grained (to 1 mm grainsize). Some of the prehnite has lamellar leucoxene and may have replaced biotite, but it is mostly after plagioclase. There are rare opaque oxide grains and a patch of probable sphalerite occurs at one end of the thin section.

FEN-TS20 **Altered biotite amphibolite with sericite, clinozoisite, prehnite, sulphides and minor quartz.**

Biotite amphibolite, similar to that in sample FEN-TS16, is present in this sample, with fine grained pale brown hornblende and schistose biotite or phlogopite, partly altered to prehnite. The abundant fine grained plagioclase has been altered to a more complex assemblage of sericite and clinozoisite, locally with prehnite as well as or instead of clinozoisite. There is more abundant quartz in this sample but it is fine grained as in the previous sample, locally as possible lenticular veins with sulphide. Some partly leucoxenised opaque oxide is disseminated as well as sulphide as small grains and as intergranular films.

Small biotite-rich shears occur and in some of these the biotite has been largely replaced by prehnite.

A former basalt is indicated by the mineralogy and the grainsize of the opaque oxide.

FEN-TS21 **Quartzofelspathic micromosaic with graphite, biotite, muscovite and minor sulphide (pyrrhotite >> pyrite), partly in veins.**

This sample is a quartz-rich quartzofelspathic micromosaic with a grainsize of 0.1 to 0.4 mm and abundant disseminated graphite. Most of the felspar is plagioclase, but there are narrow bands with alkali felspar. Minor sulphide is disseminated, with altered schistose biotite and post-tectonic muscovite. Bands of quartz with minor muscovite, albite and sulphide are probably diffuse pre-metamorphic layer-parallel veins.

Pyrrhotite is the only primary sulphide, with pyrite in narrow fractures connecting grains of former pyrrhotite, altered to pyrite.

FEN-TS22

Altered leucogranite with clouded plagioclase, and minor muscovite, chlorite and prehnite, partly after biotite; disseminated pyrrhotite and rutile..

Perthitic orthoclase and quartz dominate this inequigranular leucogranite, with a grainsize of 0.2 to 4 mm. Minor plagioclase is largely clouded by clays and sericite and there is some myrmekite, commonly enclosed in orthoclase. Muscovite, chlorite and prehnite are disseminated and locally contain lamellar leucoxene, indicating that they have replaced former biotite flakes. There is minor disseminated sulphide (pyrrhotite and rare pyrite), plus accessory rutile, indicating low fugacities of oxygen and sulphur. The quartz content is about 35% with a grainsize of up to 4 mm. There is about 20% plagioclase and 40% orthoclase, indicating a monzogranite or adamellite, transitional to granodiorite.

FEN-TS23

Altered weakly gneissic leucocratic granite or monzogranite with muscovite, chlorite and pyrrhotite.

This sample is a very similar leucogranite to that in the previous sample, albeit with more abundant (20-25%) clouded plagioclase and correspondingly less abundant (35-40%) orthoclase, indicating a monzogranite or adamellite, transitional to true granite or syenogranite. The grainsize is similar (0.2 to 4 mm) but there is a weak gneissic fabric and a weak layering. Muscovite is common and is weakly foliated, but there is only a trace of chlorite, possibly after biotite. Very minor (~ 0.3-0.5%) sulphide occurs as lenses to 1 mm long and appears to be mostly pyrrhotite.

FEN-TS24 **Banded porphyritic micromonzogranite with muscovite, pyrrhotite and rare pyrite.**

This is a similar foliated porphyritic microgranitoid to that in FEN-TS17, with some phenocrysts of albitised plagioclase and alkali felspar to 2 mm long occurring singly or in glomeroporphyritic aggregates and probable quartz phenocrysts of similar size. Patches of coarse decussate muscovite ± quartz also occur disseminated and in diffuse bands with the quartz and plagioclase phenocrysts. The groundmass is essentially a quartzofelspathic micromosaic, but has apparently two types of felspar, one more reddish than the other. These felspars are untwinned but staining indicates approximately equal amounts of plagioclase and alkali felspar and therefore a monzogranite composition. Minor sulphide, mostly pyrrhotite, with rare pyrite is disseminated and is locally interlaminated with muscovite and rare chlorite.

FEN-TS25 **Altered micromonzogranite with elongate quartz- muscovite lenses and disseminated sulphide (pyrrhotite, pyrite), rare chlorite.**

This is broadly similar to the previous sample, with a quartzofelspathic micromosaic containing two types of altered felspar. As in the previous sample, these felspars are untwinned but staining indicates subequal amounts of plagioclase and alkali felspar and a micromonzogranite composition. However, this sample contains no obvious phenocrysts but has abundant lenses of coarse muscovite and quartz to 6 x 4 mm defining a weak foliation in the rock, although the muscovite is unoriented. The minor (1-2%) sulphide includes both pyrrhotite and pyrite. The pyrrhotite is more abundant but there is more pyrite in this sample than in the previous sample. Rare chlorite is enclosed in some of the sulphide.

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MINERALOGICAL REPORT NO. 6594

April 19, 1994

TO : Robert Sowerby
North Exploration
PO Box 39443
WINNELLIE NT 0821

YOUR REFERENCE : Your letter dated 12/4/94

MATERIAL : Drill Core Samples

IDENTIFICATION : FEN TS/26, 27, 28

WORK REQUESTED : Thin section preparation and description.

SAMPLES & SECTIONS : **Retained, pending phone discussions.**

PONTIFEX & ASSOCIATES PTY. LTD.

INTRODUCTION

Three core samples FEN, TS 26, 27, 28 are described in this report from normal thin sections. The section offcuts were stained for carbonate, k-spar and for plagioclase to assist the petrography. This revealed significant detrital k-spar >> plagioclase (variably altered), adularia in veinlets, also sparse calcite in veinlets in FEN TS27.

Comments on comparisons, genesis, alteration and the minor pyrite mineralisation in FEN TS28 are included in the descriptions.

Basically, the three samples represent low grade metamorphosed (bimodal), pelitic/silty, sandy facies. FEN TS26 and 27 are schistose. Sample FEN TS28 lacks a clear whole rock schistosity (possibly lost during superimposed alteration) even though fine oriented biotite/chlorite occurs through a matrix.

There is a progressive increase in alteration from TS26 to 28.

Sample FEN TS26 is relatively unaltered. TS27 has numerous crosscutting and fairly well defined stringers of adularia ± rarer chlorite and calcite, and with some of the host rock biotite converted to chlorite. TS28 has relatively somewhat diffuse braided veinlets of adularia + quartz + chlorite with filamentous and fine granular pyrite. Detrital felspars in this rock are altered to clay-sericite, and there also appears to be patchy permeations of 'silicification'.

INDIVIDUAL DESCRIPTIONS

FEN TS/26 — **(Bimodal), micaceous and felspathic, quartzose schist. Regionally metamorphosed, pelitic/silty/very fine sandstone which incorporated minor medium to coarse quartz > felspar sand grains. No specifically diagnostic evidence of provenance.**

This is a homogeneous low grade metamorphosed (moderately schistose) clastic sediment, with an apparent bi-modal grain size population.

About 25% of the sample consists of subangular to subrounded grains of quartz and of minor to subordinate clouded felspar, all with a size range of 0.15mm to rarely 0.5mm, average about 0.3mm. These felspar grains are mostly k-spar, with rarer plagioclase with the cloudiness due to incipient clay-sericite alteration, probably pre-deposition.

These relatively coarse grains have a fairly even, bedded distribution throughout a matrix of low grade metamorphic micromosaic of detrital grains, <0.15mm size, i.e. silt and very thin sand, of quartz, subordinate k-spar and minor plagioclase. This matrix is also quite crowded however, with abundant (30% of the whole rock), evenly disposed, discontinuous and somewhat shredded foliae of muscovite and pale brownish biotite in overall subequal abundance. These micas appear to represent metamorphically recrystallised pelitic detritus.

Accessory extremely fine leucoxenitic grains are scattered mainly within the micas, and there are accessory slightly coarser detrital grains of zircon, rutile, tourmaline, sphene and indefinitely iron-oxide. There are rare crosscutting stringers of quartz.

There is no diagnostic evidence of provenance, the quartz and felspar grains may be derived from an igneous terrane, but they do not have specific volcanogenic characteristics, for example.

FEN TS27

(Bimodal) micaceous, felspathic quartzose schist. Similar to TS26 but schistose biotite greenish and largely converted to chlorite. Numerous crosscutting stringers of microcrystalline adularia ± chlorite) veinlets of adularia-calcite. Trace scattered grains of pyrite.

This sample is very similar to TS26, but with slightly more shredded foliae of mica (30%) and including chlorite, with a correspondingly slightly stronger schistosity; also there are stringers of adularia (and carbonate) not seen in TS26. The original sediment appears to have been bimodal, with subangular to subrounded grains of quartz >> k-spar, total about 25% of the rock, 0.15 to 0.5mm, fairly evenly scattered/bedded throughout.

These occur within a matrix of metamorphic micromosaic of quartz > K-spar >> plagioclase less that 0.15mm grain size, generally slightly coarser and cleaner than in TS26. This mosaic crowded with abundant oriented flakes and shredded foliae of mica, some of which are concentrated into one or two conformable thin 'shaly' layers, to 2mm thick. These micas include muscovite, as in TS26, also biotite which in this rock is greenish (rather than brownish) and to a large extent converted to chlorite.

Accessory detrital grains of sphene, rutile, tourmaline, zircon and oxide are scattered, rarely in vague layers. There are also rare single grains of pyrite and carbonate.

Numerous stringers of microcrystalline adularia and one veinlet of composite calcite/adularia, are subparallel, cutting irregularly across the schistosity basically at right angles. Rare fine chlorite occurs in some of these stringers.

It is conceivable that the conversion of schistose biotite to chlorite in the host rock relates to the permeation of these veinlets of (low temperature) adularia, carbonate ± sparse chlorite.

FEN TS28

Low grade felspathic micaceous quartzose metasediment (but not particularly schistose). Poorly defined veinlets, permeations of adularia + quartz, chlorite, pyrite. Advanced clay-sericite alteration of host rock felspars, and local probable 'silicification'.

Compared with TS26 and 27, this sample appears to represent (originally) a similar (meta) sediment, but with evidence of only a relatively minor and poorly defined bimodal granularity, and correspondingly negligible schistosity. 'Permeations' of adularia are less well defined and include quartz, and this facies appears to have been inherently more felspathic.

A moderately layered (inherently bedded), but microscopically somewhat heterogeneous mosaic, include grains, average size about 0.3mm, of quartz and largely altered felspar, within, but not clearly separated from, a finer mosaic also of quartz and largely altered felspar, and with fine individual flakes, (not foliae) of biotite. The biotite is partly chloritised. The felspars, in both sizes, appear to have been mostly k-spar, but these are largely altered to clay-sericite significantly more in some diffuse domains to 25mm across than in others.

Accessory detrital grains compare with those in TS26 and 27, but there are also scattered small grains of pyrite (3-5% of the whole rock) which probably relate to permeating alteration.

This permeating alteration is manifest as several irregular braided veinlets of adularia + fine quartz, chlorite and filamentous pyrite (also sparse small pyrite grains). As inferred above however, some of the fine quartz mosaic throughout this rock occurs as somewhat continuous vein-like permeations, albeit merging with host rock, but apparently as partly as a superimposed silicification, which may be introduced related to the veining. This may however also be due to local mobilisation essentially in-situ.

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MINERALOGICAL REPORT NO. 6766

by A.C. Purvis, PhD & I. R. Pontifex, MSc.

December 21, 1994

TO : North Exploration
482 Stuart Hwy
WINELLIE NT 0820

Attention : A. Hoschke

YOUR REFERENCE : Letter from A. Hoschke dated 18/11/94

MATERIAL : Sample Nos. 23701 to 23708

WORK REQUESTED : Thin section preparation, petrographic description and report, with comments as specified.

SAMPLES & SECTIONS : Returned to you with this report.

PONTIFEX & ASSOCIATES PTY. LTD.

SUMMARY COMMENTS

Eight samples of diamond drill-core from the Pine Creek Inlier in the Northern Territory are described in this report, using six normal thin sections and two polished thin sections of more sulphide-rich rock ± graphite (23701 and 23708).

Most of these rocks are low-grade metasediments (except 23708 with fibrolitic sillimanite) but of somewhat unusual types, reflecting hydrothermal influences (albite-quartz-tourmaline ± pyrite) in some instances, and possibly syngenetic sulphides + graphite in others. Two coarse sedimentary breccias, with some intraclasts and an unusual meta-igneous rock (23704) are also present. One sample was apparently a relatively normal quartzite, however.

Metasediments

The sediments in 23701-703 show an association of albite micromosaic rock with quartz-tourmaline rock. Sample 23703 consists almost entirely of massive 'cherty textured' albite micromosaic, but with unusually abundant, disseminated, extremely fine apatite, suggesting either input from ash which is rich in apatite (as in some trachytes), or perhaps a chemical sediment component (as in zones of deep-water upwelling). Sample 23702 is a massive, pervasive vein-like quartz-tourmaline rock with rare albite.

In sample 23701, albite micromosaic rock with somewhat heterogeneous texture passes into quartz-tourmaline rock. In this case, there is a layered and (relict) detrital fabric in both lithologies, with the albite micromosaic rock incorporating disseminated albitised plagioclase grains and fragments. Fragments of quartz are more abundant in and adjacent to the quartz-tourmaline rock, although as noted, some of the quartz-tourmaline is vein-like. It seems possible that further silicification and recrystallisation of the quartz-tourmaline facies of sample 23701 could result in the more massive quartz-tourmaline rock seen in 23702.

Minor pyrite, lesser rutile and chalcopyrite occur in these samples, partly in veins with quartz and chlorite or quartz and tourmaline, partly disseminated. A vein in 23703 has an unidentified mineral as its main component, (but this could be identified by SEM analysis if this is considered to be necessary).

Samples 23705 and 706 appear to be sedimentary breccias, partly sheared and recrystallised, with some equant plagioclase grains, but mostly with lenses (clasts) of quartzite and quartz-sericite schist to calc silicate fragments and with quartz-albite micromosaic fragments and a microgranular apatite-rock fragment in 23706. Minor clasts of graphitic schist also occur in 23706. These sediments represent a high energy environment with some cannibalising of basin-infill components. The calc silicate-rich facies (23706) has some similarities with calc silicate-rich sediments in the Chillagoe Formation in far-north Queensland, which locally contain scheelite. The apatite-rock fragment in 23706 relates to the apatite-rich albite micromosaic rock (23703) and to layers of microcrystalline apatite seen in fine-grained metasediments of Palaeoproterozoic age in areas affected by the Barramundi Orogeny in the Northern Territory.

Sample 23707 is a layered, fine biotite quartzite derived from a quartz-rich sandstone, with minor garnet and pyrite and has been cut by a conformable "granitic" quartz-plagioclase-(biotite-muscovite) vein. Extremely fine disseminated black opaque flakes in this rock are almost certainly graphite.

Sample 23708 has lenses rich in coarse graphite with muscovite-biotite lenses, including fibrolitic sillimanite. Abundant sulphide in this sample includes pyrite-marcasite apparently after pyrrhotite, as well as minor associated galena and chalcopyrite. There are also accessory scattered hematite grains. A lens of barite accompanies the galena, and illustrates the common association of lead and barium, as in the Broken Hill Inlier, where Pb-Ba-rich alkali felspar occurs commonly in and adjacent to the various lodes at Broken Hill.

Igneous Sample (metamorphosed lamprophyre).

The single (meta) igneous sample (23704) is very rich in (now schistose) biotite and apatite and may have been an alkaline to ultramafic lamprophyre as seen in the Tennant Creek Inlier (e.g. minette or glimmerite). Such rocks are commonly rich in rare earth elements, especially light rare earth elements (La-Sm).

INDIVIDUAL DESCRIPTIONS

23701

Reddish, somewhat texturally heterogeneous albite micromosaic with small albitised plagioclase fragments and a weak schistosity, passing into massive albite rock with vein-like quartz-tourmaline patches and thence into quartz-tourmaline rock, including quartz-tourmaline-pyrite veins with minor rutile, rarer chalcopyrite.

Much of this sample is an albite micromosaic, commonly reddened by limonitic or hematitic staining, and incorporating with abundant scattered albitised plagioclase grains 0.1 to 1.5mm in maximum dimension. Some well-foliated muscovite is also present. Passing across the section, the abundance of albitised plagioclase fragments decreases, and patchy vein-like lenses of quartz ± muscovite ± tourmaline become more abundant, increasing to 3 mm in length. The rock then passes abruptly into a massive quartz-tourmaline aggregate, with grains and fragments about 0.5 mm long and possibly some areas of albite micromosaic, which appears to represent a hydrothermal metasome (?replacing a breccia).

More clearly defined, but irregular veins to 7mm wide occur, at a high angle to the schistosity, and have various proportions of quartz, zoned green to orange-brown tourmaline, pyrite, rutile and clouded altered indeterminate patches to 3 mm in maximum dimension (which may be altered rutile). Accessory fine chalcopyrite occurs more or less in these vein like areas.

The original lithology may have been an albitised tuff or sediment/breccia, also invaded by quartz tourmaline ± pyrite (which may be contiguous with the albitisation).

23702

Massive rather heterogeneous quartz-tourmaline-pyrite-chlorite aggregate with rare albite. Probably of hydrothermal origin, ?pervasively replacing a sediment/sedimentary breccia.

At least 60% of this sample consists of irregular quartz micromosaic, with grains about 0.1 mm in size and rarer small patchy lenses of reddish clouded albite. Scattered through this matrix are lenses and/or fragments to 20 mm long, composed largely of decussate green to brown zoned tourmaline prisms with very minor chlorite. The tourmaline prisms are typically about 0.5 mm long. Patches and individual crystals of pyrite from 0.2 to 5 mm in maximum dimension are present, mostly in the tourmaline-rich lenses. Most of the pyrite occurs as somewhat rounded poikilitic grains but there are rare ragged patches of possibly low temperature pyrite.

A poorly defined clastic sedimentary texture is displayed mostly by the grains of plagioclase in quartz, vaguely layered and grading into quartz mosaic which may therefore be quartzitic as much as hydrothermal. The irregularity of this original sediment suggests a breccia component, however, invaded by the quartz-tourmaline ± albite.

23703

'Cherty-textured' albite micromosaic rock with disseminated fine leucoxene, chlorite and apatite. Veinlets with quartz, chlorite and carbonate, and an unidentified mineral with quartz and clays, and minor pyrite.

Most of this sample is a very fine grained albite micromosaic, with diffuse areas in which there are disseminated small leucoxene-altered grains. Scattered larger patches of leucoxene to 1 mm in diameter, occur sparsely and locally enclose small pyrite crystals and may be the altered equivalent of rutile seen in other samples. Other accessories include fine disseminated chlorite and unusually abundant very fine disseminated apatite, comprising possibly 1-2% of the rock and suggesting a tuffaceous or chemical component.

Numerous subparallel stringers and veinlets (?two sets), consist of various combinations of quartz, chlorite and minor carbonate, locally with lenses of leucoxene ± very minor apatite. Pyrite occurs rarely in these veins and there are other veinlets with an unidentified bladed crystalline, uniaxial positive mineral with extreme birefringence and interstitial clays. Minor pyrite and quartz occur in these veins.

23704

Biotite-carbonate-albite-apatite schist with alkali felspar phenocrysts or xenocrysts, possibly a metamorphosed lamprophyre such as a minette,

Abundant biotite (55%) in this sample defines a schistosity, throughout moderately abundant clays, carbonate, albite and leucoxene after discrete oxides to 0.05 mm in size. Apatite is unusually abundant as prisms from 0.05 to 0.6 mm long, comprising perhaps 5-7% of the rock Lenses of albite and carbonate occur locally and there are possible phenocrysts or xenocrysts of alkali felspar. Rare small grains of quartz are disseminated.

This sample is probably a metamorphosed alkaline lamprophyre, of a minette type, as seen in the Tennant Creek Inlier for example. Given the high biotite content however, it may even be classified as a glimmerite.

23705

Quite coarse quartz-sericite schist with some altered felspar, apparently derived by shearing and partial recrystallisation of a sedimentary breccia, with 'quartzitic' fragments to 20 mm long (which are recrystallised to vein-like lenses of quartz micromosaic).

Lenses or deformed fragments of recrystallised quartz form up to 40% of this sample and are up to 20 mm long, with various proportions of highly strained old grains and recrystallised new grains. These have a sporadic distribution along the whole-rock schistosity. There are also some augen-like grains of highly sericitised plagioclase to 2 mm diameter, generally enclosed in lenses or fragments of quartz-sericite schist. Some of the finer-grained schist lenses appear to represent fairly definite fragments to 6 mm long, whereas there also seems to be a schistose matrix rich in quartz and sericite.

This sample appears to have been a sedimentary breccia or conglomerate with siliceous clasts as well as quartz-sericite schist fragments and felspar grains, with possibly a partly igneous provenance.

23706

Complex sedimentary breccia (similar to 23705) with lenticular clasts of quartzite, quartz to albite micromosaic rocks, calc-silicates, microgranular apatite rock and rare plagioclase crystals, elongate along a whole-rock schistosity.

This sample is more clearly derived from a coarse clastic protolith than 23705, with fragments to 10 mm long, including some calc silicate fragments with epidote, actinolite, albite, calcite, garnet and locally some alkali felspar as well as areas of sericite. There are also some intraclasts of graphitic schist with quartz and epidote, and fragments with a micromosaic texture which vary from quartz-rich to albite-rich.

Other fragments have microcline grains in a matrix of chloritic clays and carbonate, and there are coarse vein quartz or quartzite fragments to 10 mm long, with a parallel elongation direction defining a foliation in the rock. Rare single crystals of plagioclase are present to 3 mm long. There are some disseminated leucoxenised grains which may have included both oxides and sphene and there are patches of porous pyrite, partly enclosed in the calc silicate fragments but also disseminated.

One of the fragments is composed of microgranular apatite, (and it is noted that thin bedding laminations of apatite are known from Palaeoproterozoic sequences in the Northern Territory).

The rock as a whole is broadly similar to calc silicate-rich sediments in the Chillagoe Formation in northern Queensland, which locally host scheelite mineralisation.

23707

Partly layered quartz-biotite schist (or fine biotite-quartzite) with garnet, disseminated oxides and/or graphite and pyrite. Incorporates a conformable "granitic" quartz-plagioclase-(biotite-muscovite) vein.

The bulk of this sample is a fine quartz-biotite schist apparently derived from a quartz-rich sandstone with some bands rich in biotite to 2 mm wide and with several scattered garnet crystals, mostly in and adjacent to the biotite-rich bands. The garnet grains are from 0.2 to 1 mm in diameter with abundant inclusions but no internal schistosity. There is a strong layer-parallel schistosity in the host rock, however. Extremely black opaque grains of oxide or graphite are disseminated and in some areas, there are local lenses of pyrite elongate parallel to the schistosity.

A layer-parallel vein about 8 mm wide is dominated by partly sericitised sodic plagioclase grains to 5 mm in size with about 25%interstitial quartz. There is accessory fresh to chloritised biotite and some muscovite. It is possible that this vein is of granitic origin.

23708

Lenses of carbonaceous (graphitic) schist interfingered with lenticular layers of quartz, muscovite, albite and carbonate, and non-carbonaceous layers with biotite, muscovite, sillimanite, pyrite-marcasite, galena, chalcopyrite and barite. Accessory galena and chalcopyrite and scattered hematite grains.

There is a lensoidal millimetre to centimetre scale layering in this sample with strongly carbonaceous shredded lenses to layers rich in coarse graphite, irregularly interlocking with lenses lacking or poor in carbonaceous matter, but rich in schistose pale magnesian biotite or phlogopite and coarse muscovite. Lenses of fresh to possibly clay or sericite-altered fibrolitic sillimanite are abundant in the non-carbonaceous lenses. Quartz, sericite, clouded plagioclase and carbonate accompany coarse graphite in the carbonaceous layers, however.

Sulphide is most abundant in the non-carbonaceous lenses as large irregular patches rich in pyrite-marcasite, with a lens of fine bladed barite and with grains of galena and minor chalcopyrite, in and adjacent to the pyrite-marcasite masses which are probably after pyrrhotite. Some of the galena occurs as grains to 0.7 mm in maximum dimension. Some disseminated pyrite-marcasite occurs in the carbonaceous lenses, however. Accessory (3%) small (to 0.5mm) grains of hematite are scattered independently as individuals.

NORTH LIMITED
ACN 005 233 689

REPORT No. NT95/09S

EL 7331 "FENTON" ANNUAL REPORT

3 May 1994 - 2 May 1995

by
A M HOSCHKE

1:250 000 - PINE CREEK (SD52-08)
1:100 000 - TIPPERARY (5170)

Distribution:

North Exploration - Darwin
North Exploration - Melbourne
Department of Mines and Energy - NT

Base: Darwin
Date: Feb, 1995

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23.	Geological Cross Section 8483000N	FRC 35	1: 500
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25.	Geological Cross Section	FRC 38	1: 500
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DRILL HOLE SECTIONS WITH GOLD (ppb) GEOCHEMISTRY RESULTS

32.	8483000 N-D	FRC 33, FRC 36, FDH 3	1: 500
33.	8484000 N-A	FRC 45, FDH 4	1: 500
34.	8485500 N-A	(FRC 19), FRC 37, FDH 5	1: 500
35.	8484800 N-B	FRC 21, FRC 22	1: 500
36.	8484800 N-C	FRC 23, FRC 24, FRC 25	1: 500
37.	8485000 N	FRC 40, FRC 26	1: 500
38.	8485500 N-B	FRC 27	1: 500
39.	8484500 N	FRC 39, FRC 28	1: 500

40.	8484000 N-B	FRC 29, FRC 30, FRC 32	1: 500
41.	8484000 N-C	FRC 31	1: 500
42.	8482500 N	FRC 34	1: 500
43.	8483000 N-B	FRC 35	1: 500
44.	8484300 N	FRC 38	1: 500
45.	8483000 N-C	FRC 41	1: 500
46.	8483000 N-A	FRC 42	1: 500
47.	8482000 N	FRC 43	1: 500
48.	8484800 N-A	FRC 44	1: 500

741 000mE | 742 000mE | 743 000mE | 744 000mE | 745 000mE | 746 000mE

8 486 000mN | 8 485 000mN | 8 484 000mN | 8 483 000mN | 8 482 000mN | 8 481 000mN | 8 480 000mN

18 19 37 5 27 40 26 44 21 22 23 24 25 39 28 38 45 4 29 30 32 31 13 17 14 15 16 2 6 7 8 3 9 10 11 12 1 1 5 4 2 42 35 41 33 36 3 34 43

Reference:

36 — Reverse Circulation Drill Hole (FRC Prefix)

3 — Diamond Drill Hole (FDH Prefix)

NORTH

BRISBANE

NORTH LIMITED

A.C.N. 005 233 689

SCALE 1: 10 000

PROSPECT GRID AUSTRALIAN HEIGHT DATUM

Map Ref. PINE CREEK, SD52-8 / 5170

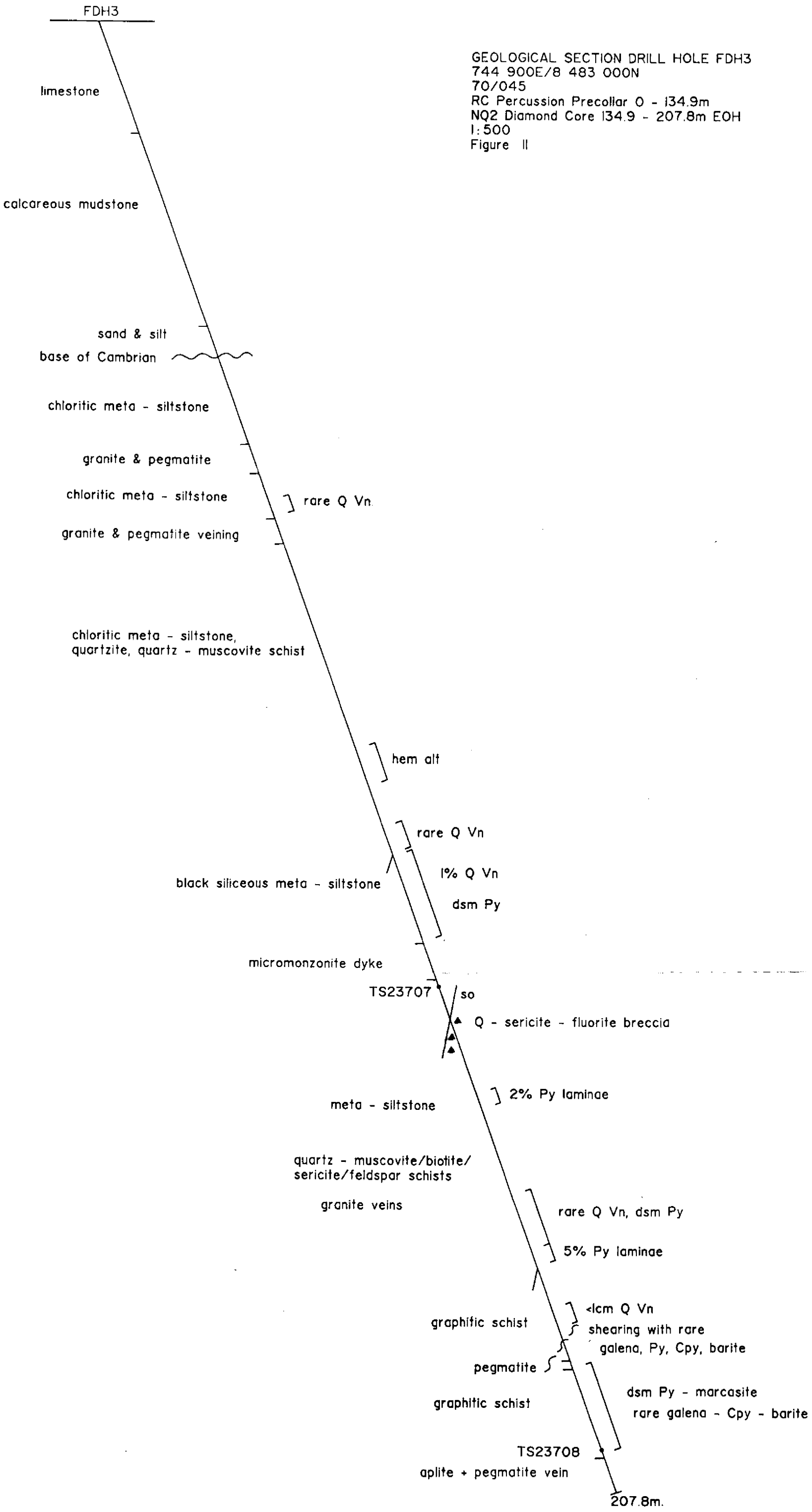
EL 7331 - FENTON
DRILL HOLE LOCATIONS

Geo.	AH
Drawn	RH
Checked	
Date	13/02/95
Job No.	

Project | Report No. | Dwg No. | FIG. 10

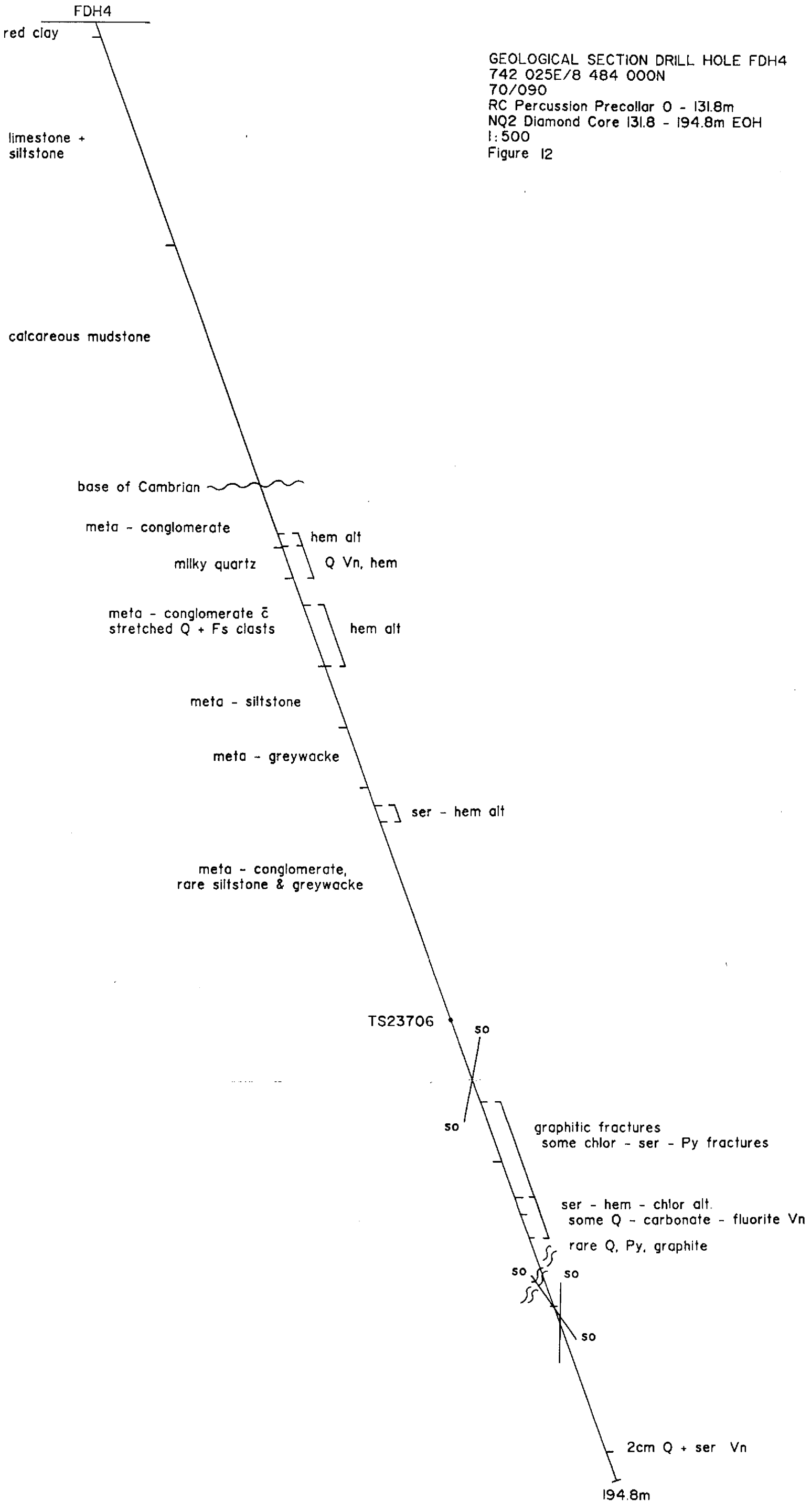
CR95/408 B

GEOLOGICAL SECTION DRILL HOLE FDH3
744 900E/8 483 000N
70/045
RC Percussion Precollar 0 - 134.9m
NQ2 Diamond Core 134.9 - 207.8m EOH
1:500
Figure II



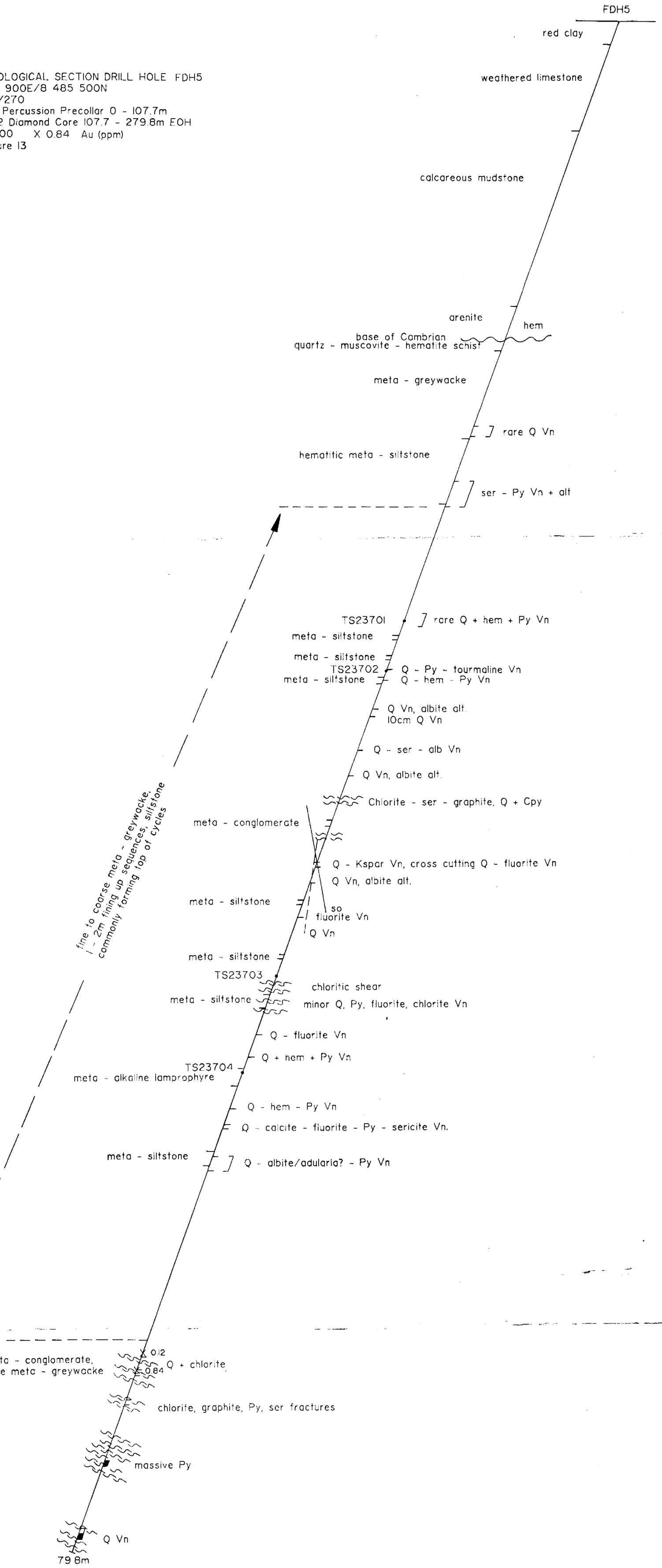
CR95/408 B

GEOLOGICAL SECTION DRILL HOLE FDH4
742 025E/8 484 000N
70/090
RC Percussion Precollar 0 - 131.8m
NQ2 Diamond Core 131.8 - 194.8m EOH
1:500
Figure 12



CR95/408B

GEOLOGICAL SECTION DRILL HOLE FDH5
741 900E/8 485 500N
70/270
RC Percussion Precollar 0 - 107.7m
NQ2 Diamond Core 107.7 - 279.8m EOH
1:500 X 0.84 Au (ppm)
Figure 13



742900 E

743000 E

743100 E

100 RL

100 RL

Ground Level

FENRC21

FENRC22

Siltstone

Siltstone

Arenite

Base of Eamo-ans

Volcanolithic meta greywacke

Phyllite meta greywacke

Phyllite

meta greywacke

qtz ch. Schist Phyllite

qtz ch. Schist Phyllite

-100 RL

-100 RL

Volcanolithic meta greywacke

-200 RL

-200 RL

742900 E

743000 E

743100 E

INDEX TO ADJOINING MAPS

DRAWING REVISION	
DATA TYPE	UPDATED

DARWIN

Geo	RDS
Drawn	JRW
Checked	
Date	2/8/94

GEOPEKO

A DIVISION OF PEKO-WALLSEND OPERATIONS LTD.
A.C.N. 000 061 434

Scale 1:500

10 0 10 20 30 40 50 metres

PROSPECT GRID AUSTRALIAN HEIGHT DATUM

Map Ref

DRILL SECTION 8 484 800N
FENRC21, FENRC22
GEOLOGY

CR95/408B

Figure 14

Dwg. No NPC 023 336

743300 E

743400 E

743500 E

743600 E

100 RL

Ground Level

FENRC23

Siltstone grit/sst

Base of Eambrian

qv - chl qtz

Amphibolite

Chl - hem qtz

Cherty

Qtz /musc. chl Schist

Sheared - fract. qtz-musc. + Chl Schist

0 RL

Chl-musc Schist

altered amphibolite

Chl qtz

abundant qtz veining - Ti, Py - chalco

FENRC24

Weathered Arenite

Base of Eambrian

qtz-musc Schist

Cherty + fine gr. meta-pelite

qtz musc Schist

qtz-mica feldspar hornfels?

Chert quartz amphibole hornfels

FENRC25

Siltstone

fract. hematic greywacke

abundant qtz

hematic - chloritic Cherty chl qtz physhite

minor hem/chl qtz

Qtz-musc. chl Schist

qtz py

hem

qtz - py

py

0 RL

100 RL

743300 E

743400 E

743500 E

INDEX TO ADJOINING MAPS

DRAWING REVISION	
DATA TYPE	UPDATED

DARWIN

Geo	RDS
Drawn	JRW
Checked	
Date	16/8/94

GEOPEKO

A DIVISION OF PEKO EXPLORATION LTD. A.C.N. 000 362 550

Scale 1:500

10 0 10 20 30 40 50 metres

PROSPECT GRID AUSTRALIAN HEIGHT DATUM

Map Ref

DRILL SECTION 8 484 800N FENRC23, FENRC24, FENRC25 GEOLOGY

Figure 15

Dwg No NPC 023 339

CR 95/408 B

743400 E

743500 E

743600 E

100 RL

0 RL

FENRC40

FENRC26

Ground Level

Strasse

Amphibolite minor quartz

Chert?

quartz musc-chl schist (meta dacite)

Jqv

quartz chl-musc schist meta grenadine arenite

Jqv

Cherty tuff ? Jr qv

qtz-musc-chl schist

Cherty phyllite /qtz chlorite schist Jr qv

Arenite

quartz veining / greywacke

Jr ~30% hematite - minor qv

Hematitic Arenite

Granitic dyke

altered felsopmic arenite

hematite felsopmic qv

INDEX TO ADJOINING MAPS

DRAWING REVISION	
DATA TYPE	UPDATED

DARWIN

GEOPEKO

A DIVISION OF PEKO EXPLORATION LTD
A.C.N. 000 362 550

Scale 1:500

10 0 10 20 30 40 50 metres

PROSPECT GRID AUSTRALIAN HEIGHT DATUM

Map Ref

Geo	RDS
Drawn	JRW
Checked	
Date	16/8/94

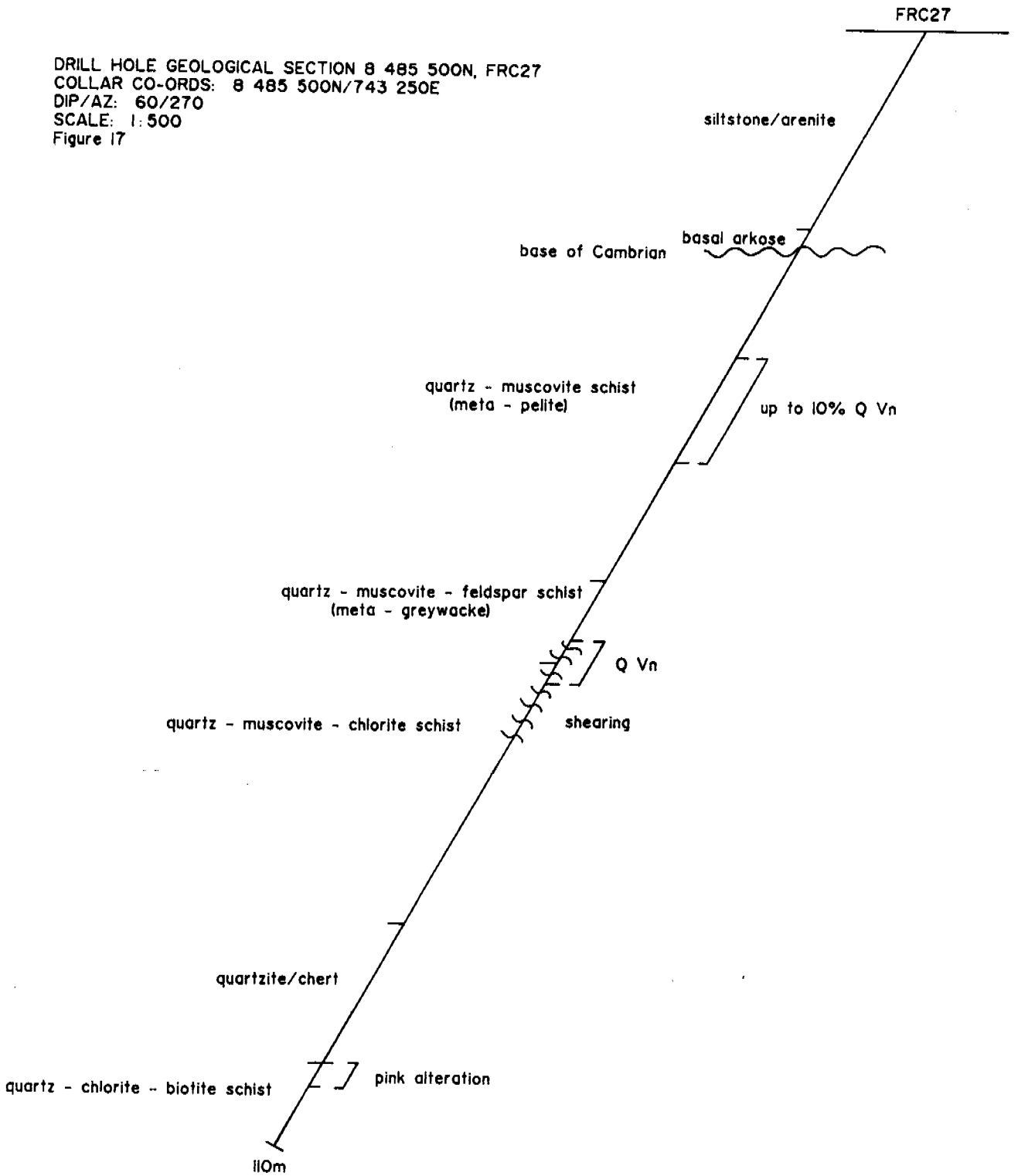
DRILL SECTION 8 485 000N
FENRC40, FENRC26
GEOLOGY

Figure 16

Dwg. No NPC 023 340

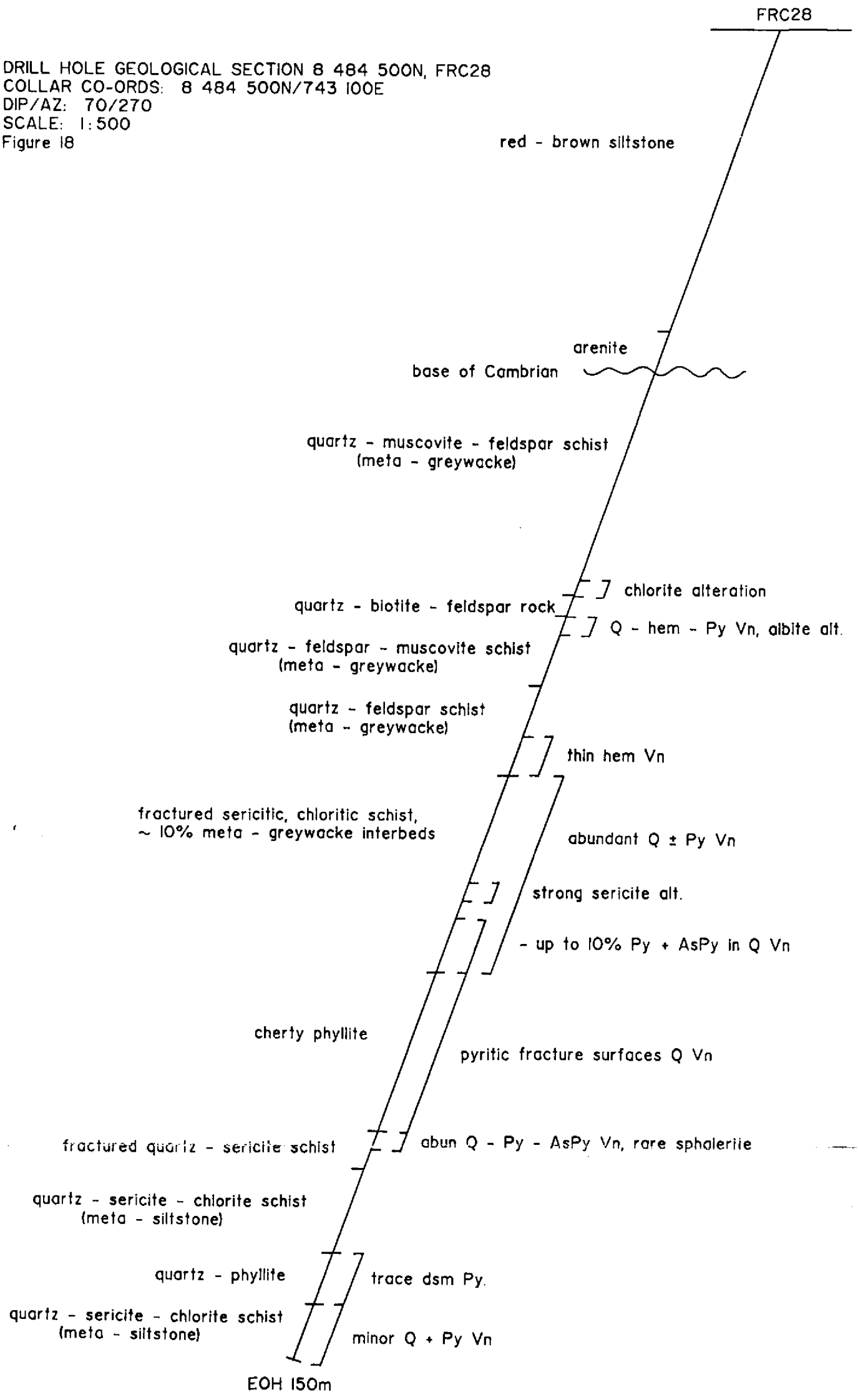
CR95/408 B

DRILL HOLE GEOLOGICAL SECTION 8 485 500N, FRC27
COLLAR CO-ORDS: 8 485 500N/743 250E
DIP/AZ: 60/270
SCALE: 1:500
Figure 17



CR95/408 B

DRILL HOLE GEOLOGICAL SECTION 8 484 500N, FRC28
COLLAR CO-ORDS: 8 484 500N/743 100E
DIP/AZ: 70/270
SCALE: 1:500
Figure 18



743200 E

743300 E

200 RL

100 RL

Ground Level

0 RL

-100 RL

FENRC29

Siltstone

Arenite

fract hematitic quartz-mica schist (meta greywacke)

Base of Cambrian

fract hematitic sericitic chloritic phyllite (meta-pelite)

q + hem veining

fract qtz-chl schist

Sheared graphitic schist

qtz-py veining

abundant qtz + py

qtz phyllite

q + py

sericite + py

Quartz-chlorite -musc schist (meta-greywacke)

minor + py

sericite + py

FENRC30

Silicified Dolomitic Siltstone

Siltstone

Arenite

Hematitic quartz -chlorite-musc schist/phyllite

he + qv

he + qv

qtz + chl + musc schist (meta-greywacke)

tr py

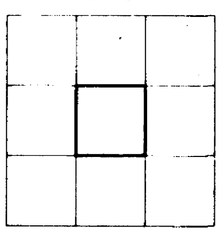
q + py + he

Graphitic schist

tr py

Quartz-sericite? phyllite

INDEX TO ADJOINING MAPS



DRAWING REVISION	
DATA TYPE	UPDATED

DARWIN

GEOPEKO

A DIVISION OF PEKO-WALLSEND OPERATIONS LTD.
A.C.N. 000 081 434

Scale 1:500

10 0 10 20 30 40 50 metres

PROSPECT GRID AUSTRALIAN HEIGHT DATUM

Map Ref

Geo	RDS
Drawn	JRW
Checked	
Date	16/8/94

DRILL SECTION 8 484 000N
FENRC29, FENRC30
GEOLOGY

Figure 19

Dwg. No NPC 023 341

100 RL

743500 E

743600 E

Ground Level

FENRC32

red soil

Siltstone

Arenite

Base of Cambrian

Qtz-chl-musc schist

minor qtz-py

0 RL

Qtz-musc-chl schist (meta-greywacke)

minor py

pink chert/tuff

Qtz chl schist (meta-pelite)

REVISION			GEOPEKO	A DIVISION OF PEKO-WALLSEND OPERATIONS LTD. A.C.N. 000 081 434
DATA TYPE	UP-DATED		Scale 1:500	10 0 10 20 30 metres
		Geo RDS	Map Ref.	
		Drawn JRW	DRILL SECTION 8 484 000N FENRC32 GEOLOGY	Figure 20
		Checked		
		Date 16/8/94		Dwg. No NPC 023 343

CR95/408 B

744700 E

744800 E

744900 E

100 RL

0 RL

FENRC35

Ground Level

Weathered Siltstone

Siltstone

Arkose

Base of Eomarian

pale cherty mudst?

qtz ch musc Schist

Cherty phyllite

amphibole feldspar rich inhomogeneous

qtz musc ch Schist/meta siltstone

chlorite

pegmatite

minor qtz

carbonaceous qtz ch musc Schist

sericite

sericite / minor qtz

sericite Schist

pegmatite

Quartz feldspar dykes

minor Ch. Qtz

minor qtz

Quartz phyllite

FENRC36

Weathered dolomitic siltstone

Siltstone

Arkose

Weathered altered amphibolite

amphibolite

qtz phyllite/cherty

texture altered

qtz phyllite/ qtz ch Schist

sericite qtz

minor qtz + py

sericite qtz

INDEX TO ADJOINING MAPS

DRAWING REVISION	
DATA TYPE	UPDATED

DARWIN

GEOPEKO

A DIVISION OF PEKO EXPLORATION LTD
A.C.N. 000 362 550

Scale 1:500

10 0 10 20 30 40 50 metres

PROSPECT GRID AUSTRALIAN HEIGHT DATUM

Map Ref

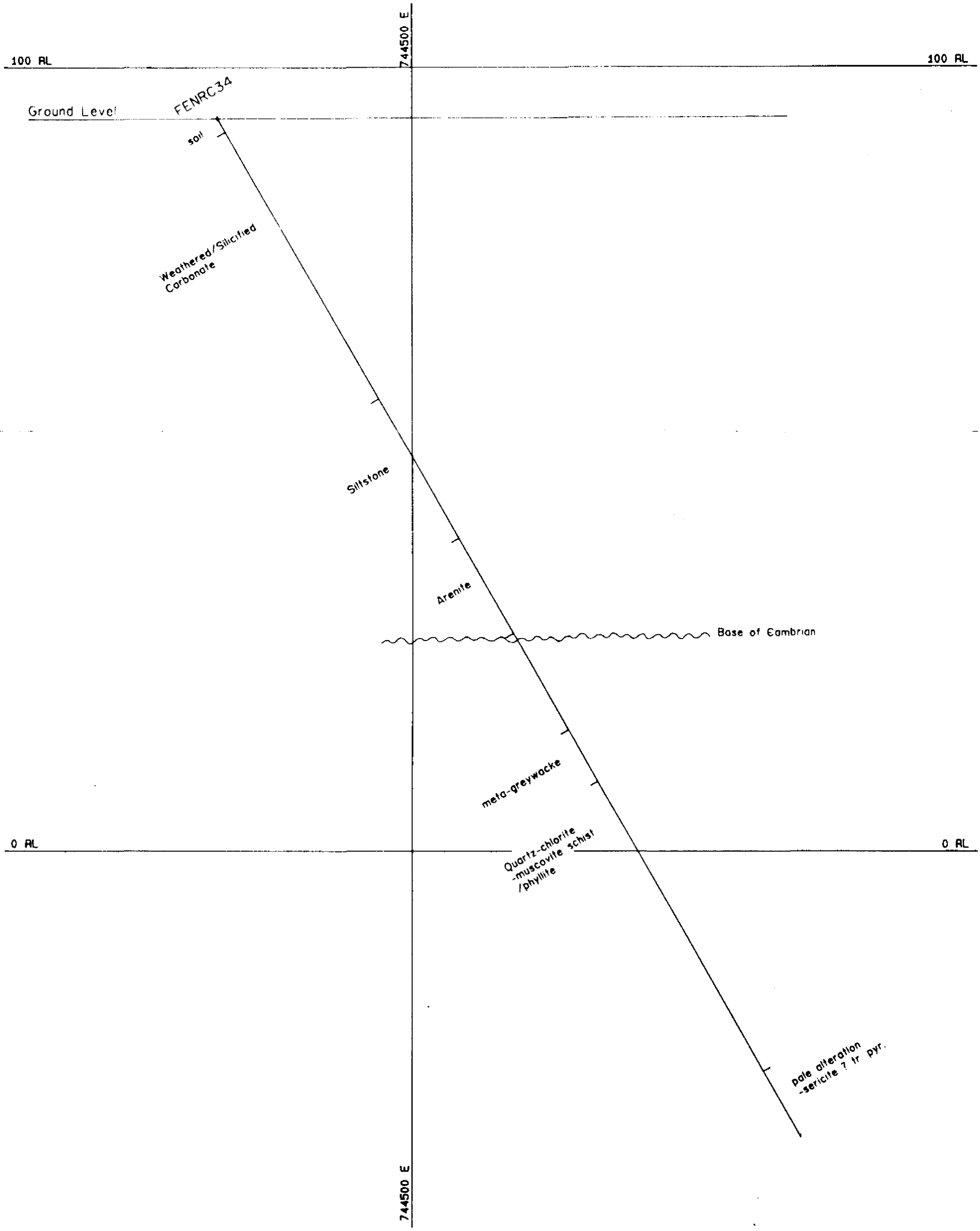
Geo	RDS
Drawn	JRW
Checked	
Date	16/8/94

DRILL SECTION 8 483 000N
FENRC33, FENRC36
GEOLOGY

Figure 21

Dwg. No NPC 023 342

6895/108 B



REVISION	
DATA TYPE	UP-DATED

GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD.
A.C.N. 000 081 494

Scale 1:500
10 0 10 20 30 metres

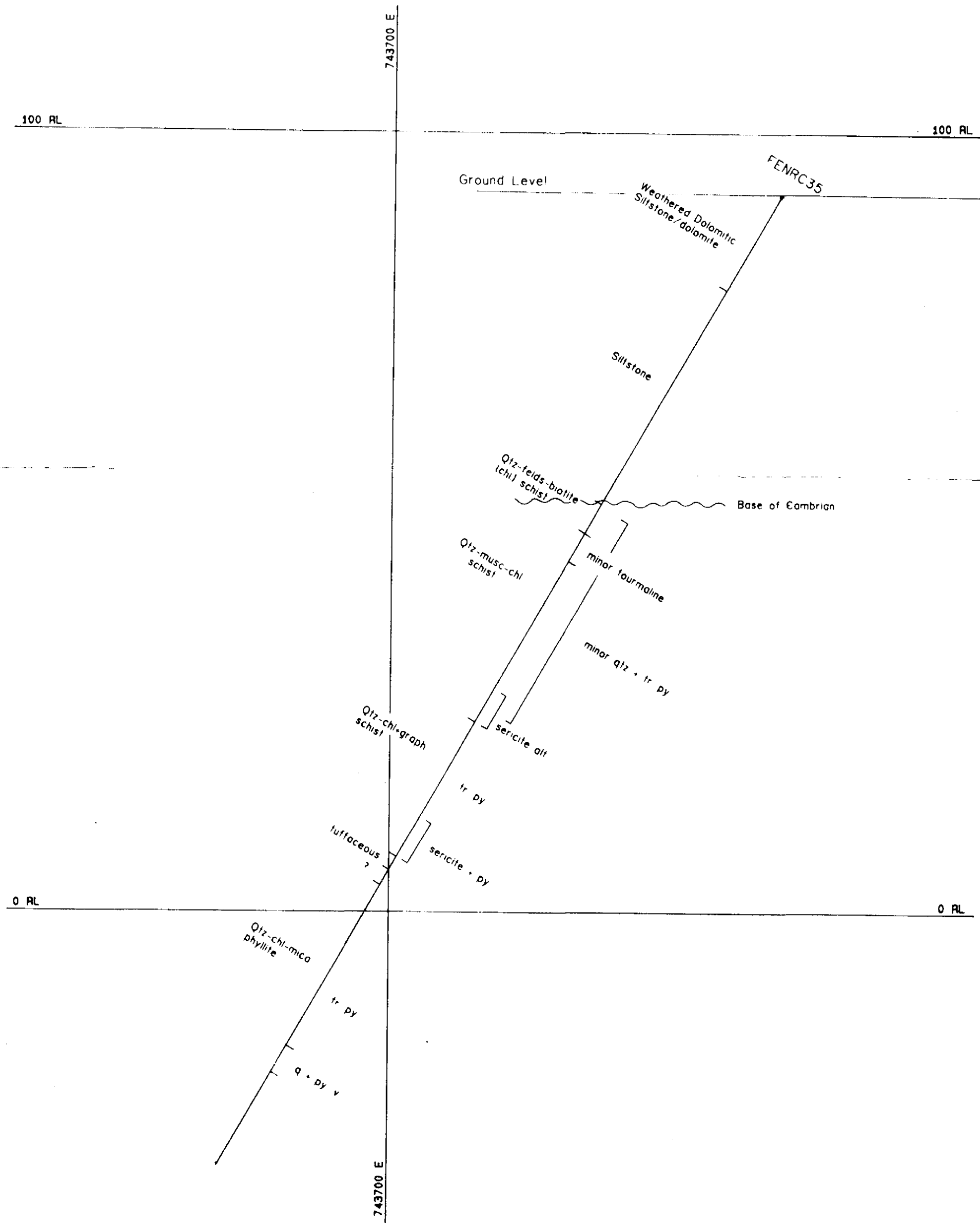
Geo RDS
Drawn JRW
Checked
Date 16/8/94

Map Ref.

DRILL SECTION 8 482 500N
FENRC34 GEOLOGY
Figure 22

Dwg. No NPC 023 344

CR95/408 B



REVISION	
DATA TYPE	UP-DATED

DRAWN

Geo RDS

Drawn JRW

Checked

Date 16/8/94

GEOPEKO A DIVISION OF PEKO-WALLSEND OPERATIONS LTD. A.C.N. 000 081 484

Scale 1:500

10 0 10 20 30 metres

Map Ref.

DRILL SECTION 8 483 000N
FENRC35 GEOLOGY

Figure 23

Dwg. No NPC 023 345

CR95/408 B

741600 E

741700 E

741800 E

100 RL

Ground Level

FENRC18

Laterite

Dolomitic Siltstone

Dolomite

Siltstone

Arenite

Base of Cambrian

Phyllitic Siltstone

FENRC19

Laterite

Dolomitic Siltstone

Siltstone

Arenite

Phyllitic Siltstone

meta-arkose

Phyllitic Siltstone

FENRC37

Siltstone

Dolomitic Siltstone

Siltstone

Arenite

Phyllite

meta-greywacke

pink chert (tuff) tourmaline

volcanolithic meta-greywacke

Quartz-pyrite veining

chert tr. py

greywacke

Chloritic phyllite

meta-greywacke

Phyllite

0 RL

741600 E

741700 E

741800 E

INDEX TO ADJOINING MAPS

DRAWING REVISION	
DATA TYPE	UPDATED

DARWIN

GEOPEKO

A DIVISION OF PEKO EXPLORATION LTD. A.C.N. 000 362 550

Scale 1:500

10 0 10 20 30 40 50 metres

PROSPECT GRID AUSTRALIAN HEIGHT DATUM

Map Ref

Geo	RDS
Drawn	JRW
Checked	
Date	16/8/94

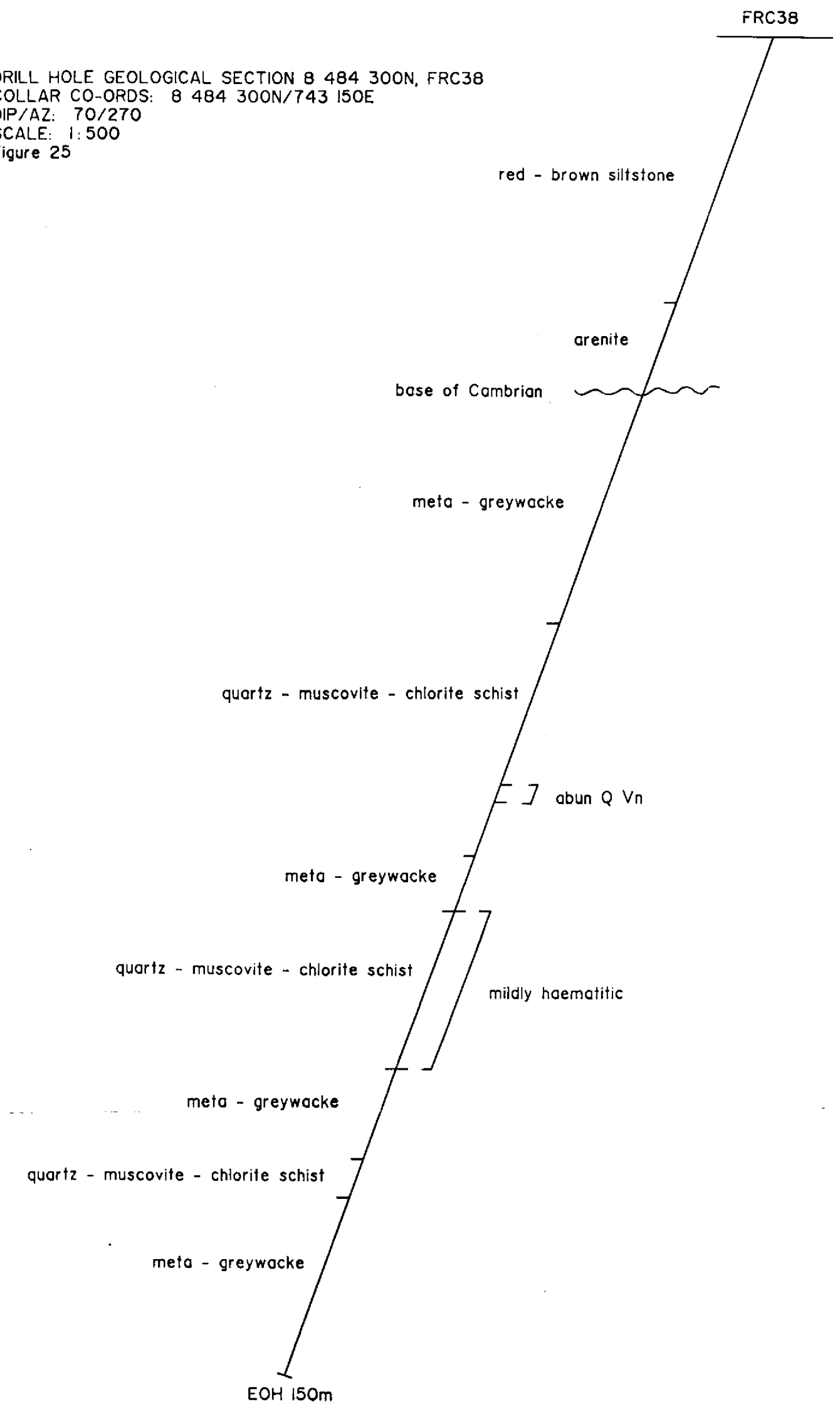
DRILL SECTION 8 485 500N FENRC18, FENRC19, FENRC37 GEOLOGY

Figure 24

Dwg. No NPC 023 338

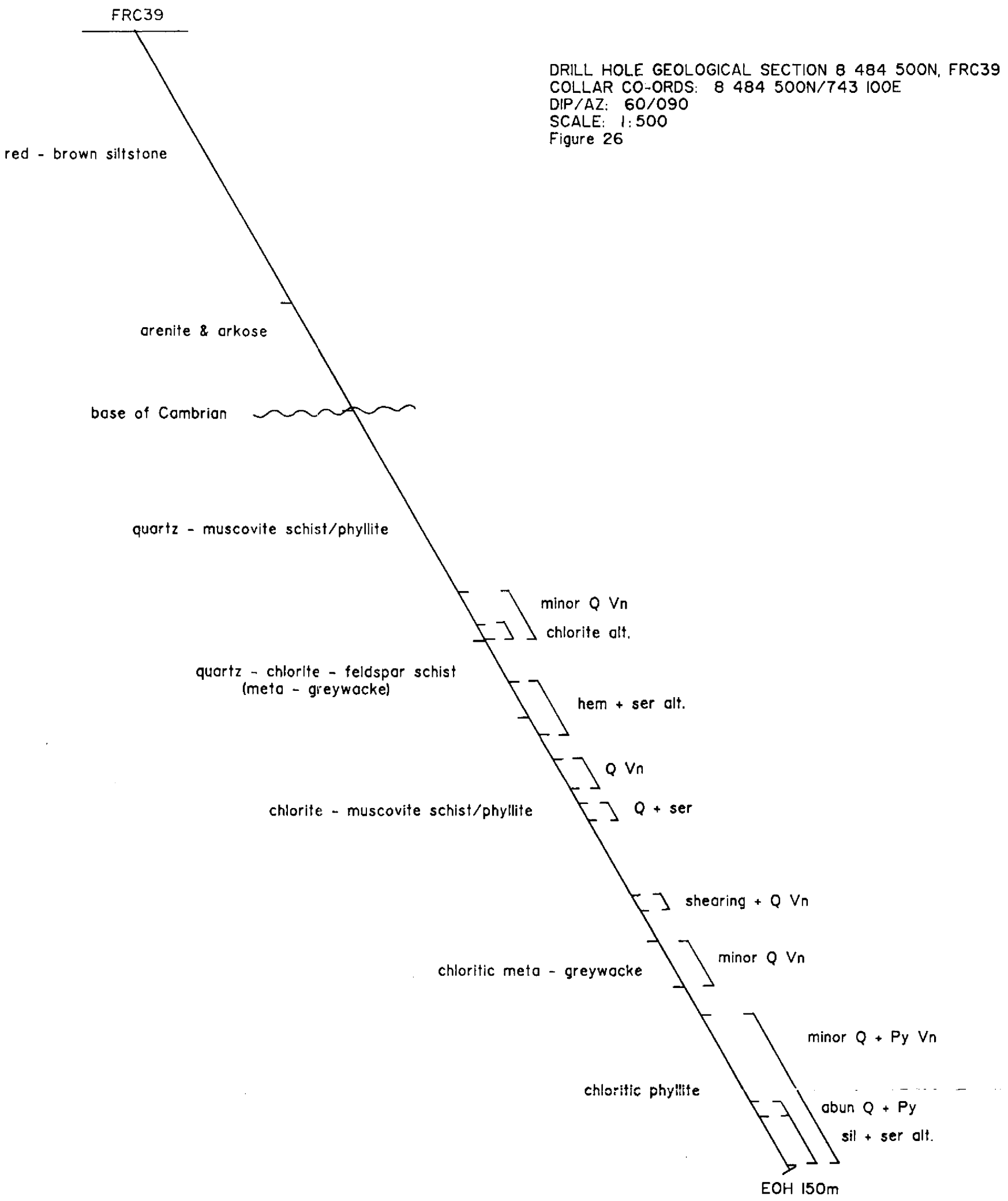
CR95/408 B

DRILL HOLE GEOLOGICAL SECTION 8 484 300N, FRC38
COLLAR CO-ORDS: 8 484 300N/743 150E
DIP/AZ: 70/270
SCALE: 1:500
Figure 25



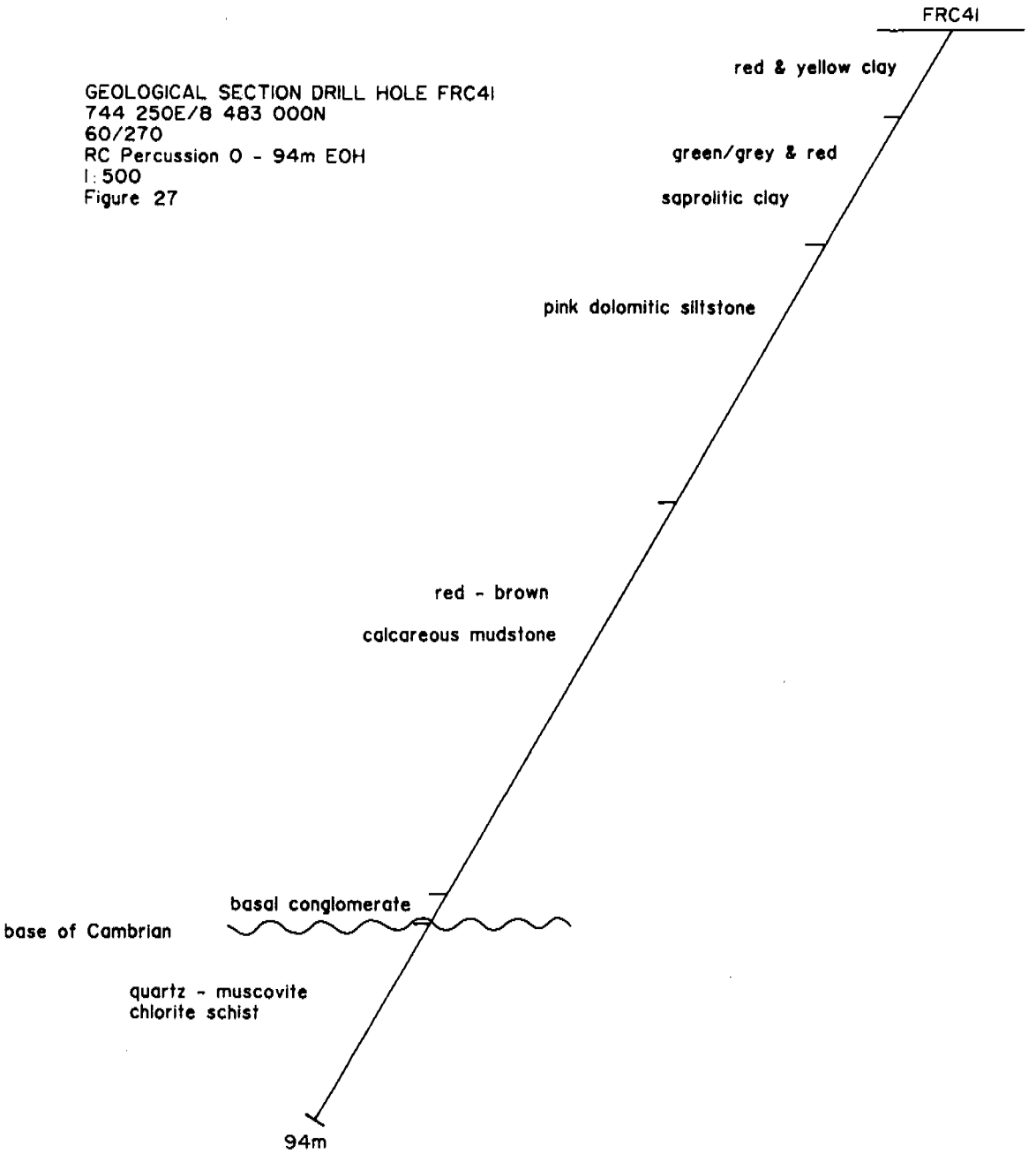
CR95/408 B

DRILL HOLE GEOLOGICAL SECTION 8 484 500N, FRC39
COLLAR CO-ORDS: 8 484 500N/743 100E
DIP/AZ: 60/090
SCALE: 1:500
Figure 26



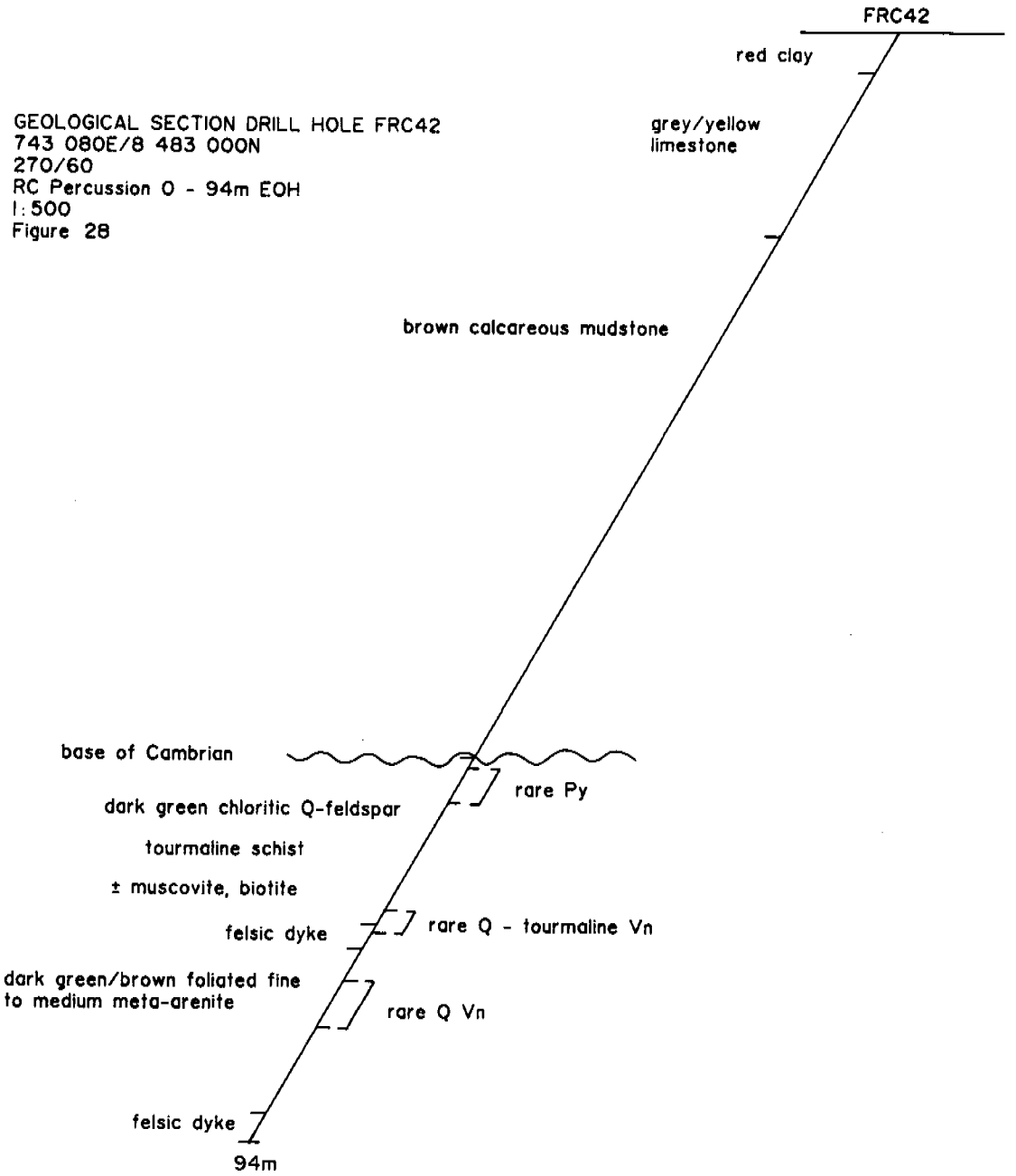
CR95/408 B

GEOLOGICAL SECTION DRILL HOLE FRC41
744 250E/8 483 000N
60/270
RC Percussion 0 - 94m EOH
1:500
Figure 27

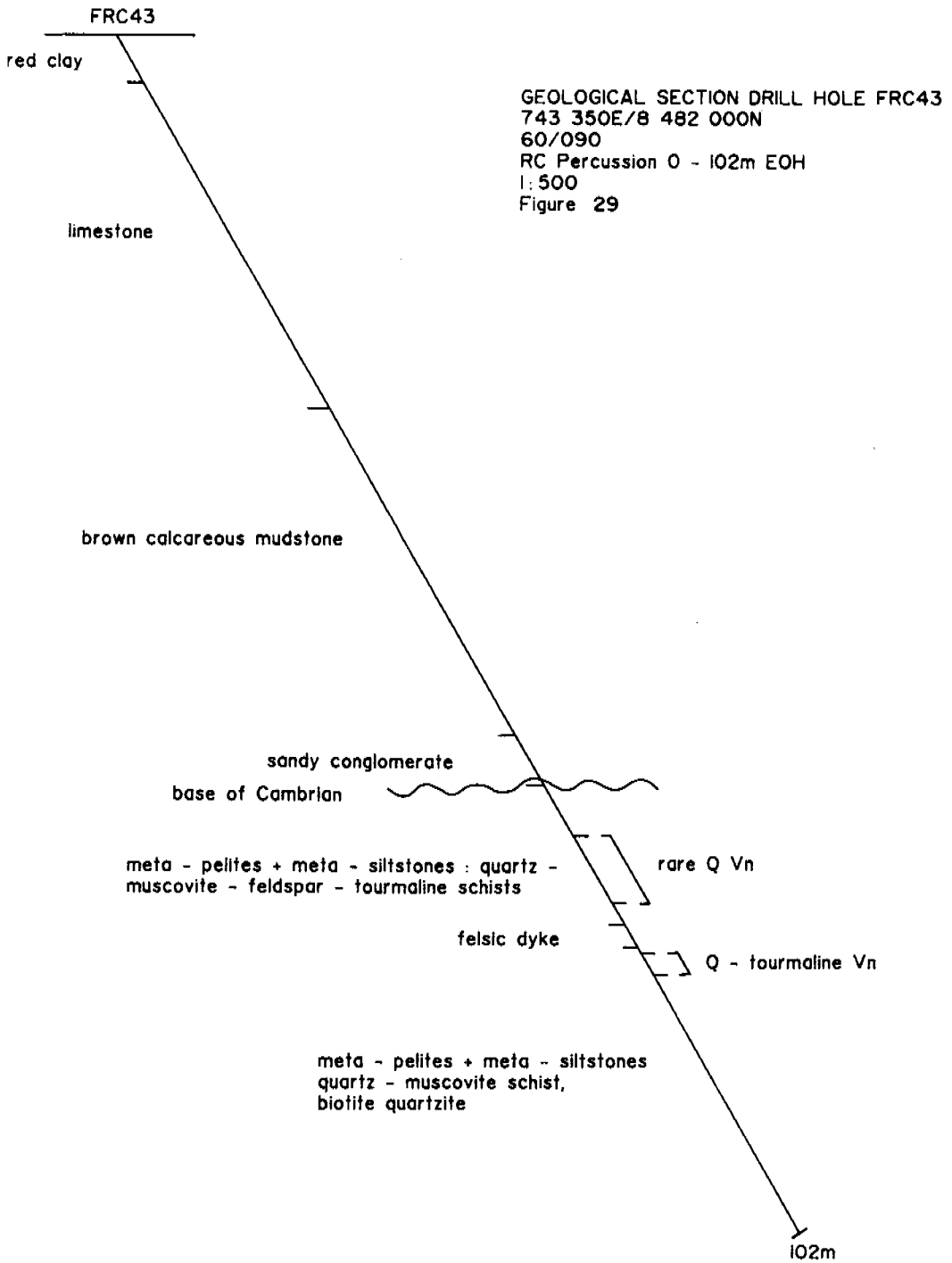


CR95/408 B

GEOLOGICAL SECTION DRILL HOLE FRC42
743 080E/8 483 000N
270/60
RC Percussion 0 - 94m EOH
1:500
Figure 28



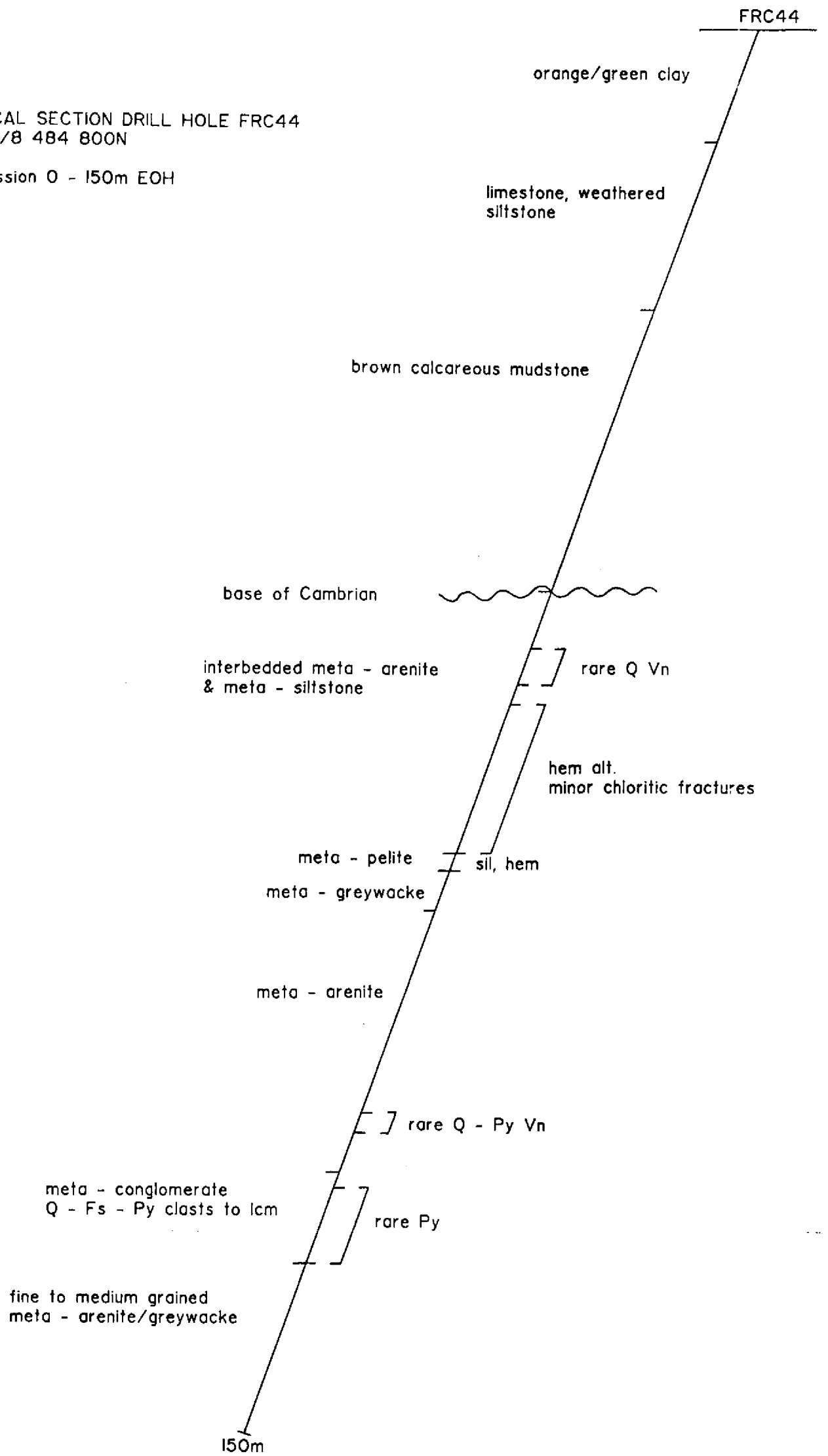
CR95/408 B



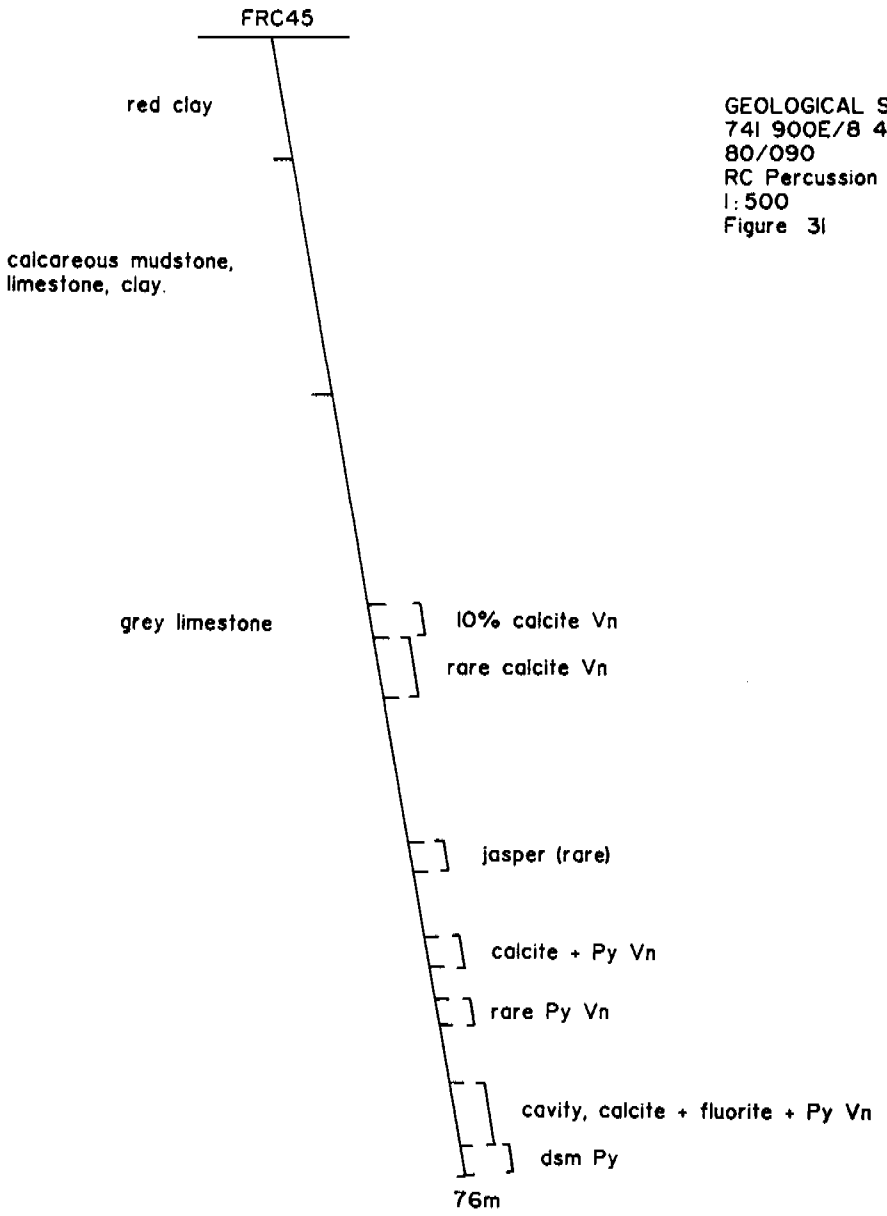
GEOLOGICAL SECTION DRILL HOLE FRC43
743 350E/8 482 000N
60/090
RC Percussion 0 - 102m EOH
1:500
Figure 29

CR95/408 B

GEOLOGICAL SECTION DRILL HOLE FRC44
741 950E/8 484 800N
70/270
RC Percussion 0 - 150m EOH
1:500
Figure 30



CR95/408 B



GEOLOGICAL SECTION DRILL HOLE FRC45
741 900E/8 484 800N
80/090
RC Percussion (very wet)
1:500
Figure 31

E 744650 | E 744700 | E 744750 | E 744800 | E 744850 | E 744900 | E 744950 | E 745000

50mRL

0mRL

-50mRL

-100mRL

-150mRL

FR00033

141.62

FR00036

150.30

FDH0003

207.80

CR95/408 B

NORTH LIMITED
A.C.N. 005 233 689

PERTH

Scale 1:500
0 5 10 15 20 25

FENTON PROJECT
SECTION 8483000N - D
GOLD (PPB)

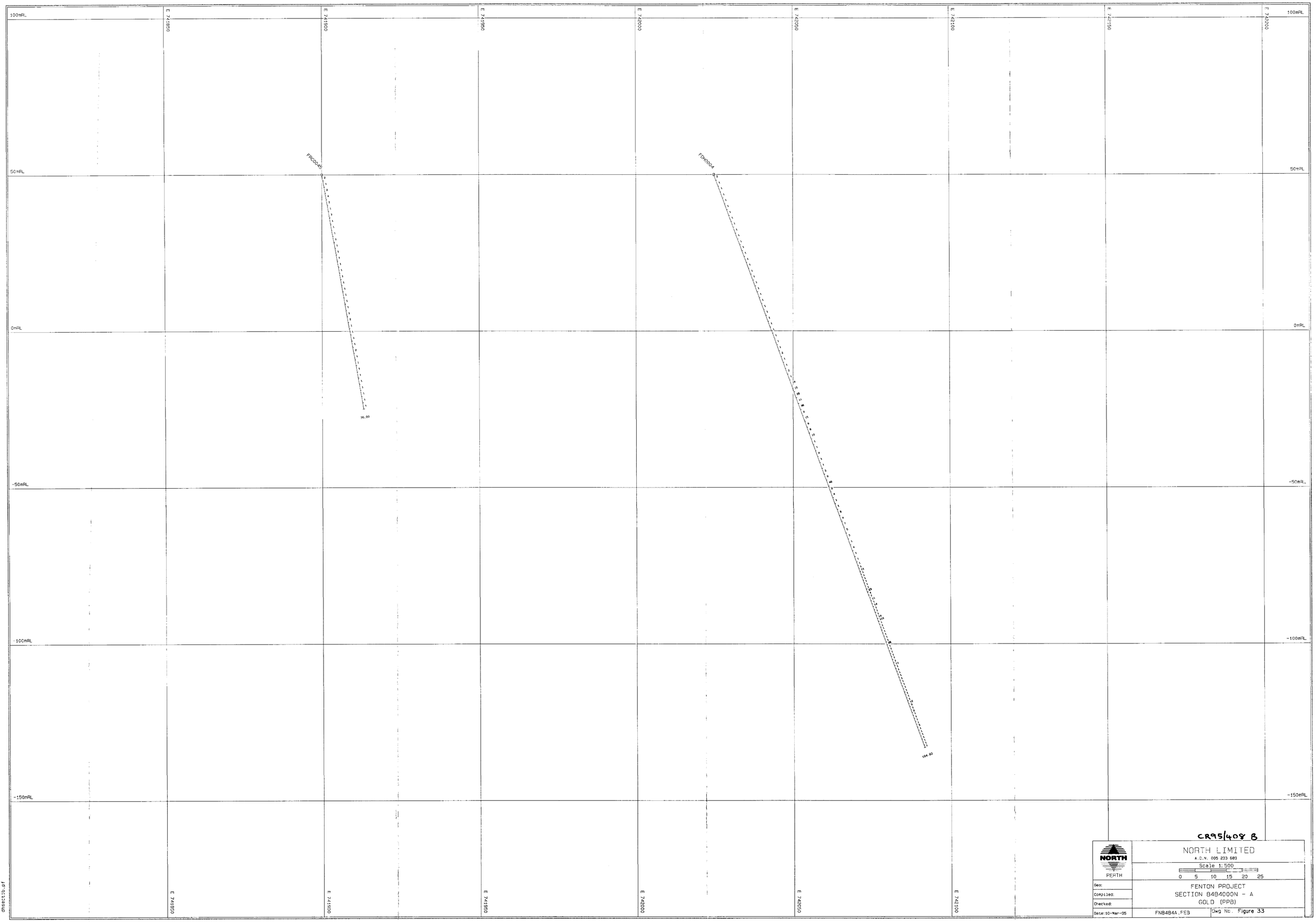
Geo:
Compiled:
Checked:
Date: 12-Mar-95

FNB4B3D.FE8

Dwg No. Figure 32

dhsectia.pdf

SURPAC SOFTWARE INTERNATIONAL AUSTRALIA



CR95/408 B

NORTH LIMITED
A.C.N. 005 233 689
PERTH
Scale 1:500
0 5 10 15 20 25

Geo:	FENTON PROJECT
Compiled:	SECTION 8484000N - A
Checked:	GOLD (PPB)
Date: 10-Mar-05	FN8484A.FES — Dwg No. Figure 33

onsectib.pf

E 741550 | E 741600 | E 741650 | E 741700 | E 741750 | E 741800 | E 741850 | E 741900

50mRL

0mRL

-50mRL

-100mRL

-150mRL

-200mRL

FRC0010

99.00

FRC0037

156.00

FDH0005

370.80

NORTH PERTH	NORTH LIMITED A.C.N. 005 233 693
	Scale 1:500 0 5 10 15 20 25
Geo:	FENTON PROJECT
Compiled:	SECTION 8485500N - A
Checked:	GOLD (PPB)
Date: 13-Mar-95	FN84855A.FEB — Dwg No. Figure 34

SURPAC SOFTWARE INTERNATIONAL, AUSTRALIA

CR95/408 B

E 742850 | E 742900 | E 742950 | E 743000 | E 743050 | E 743100 | E 743150 | E 743200

100mRL

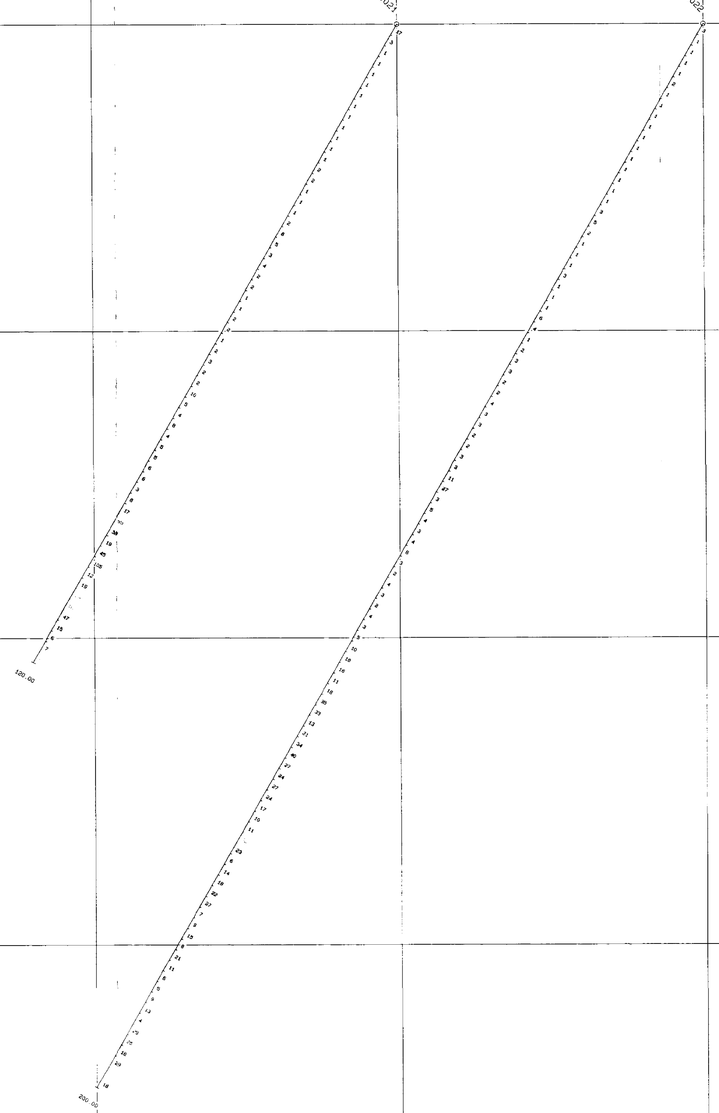
50mRL

0mRL

-50mRL

-100mRL

-150mRL



NORTH LIMITED
A.C.N. 008 233 689

NORTH
PERTH

Scale 1: 500
0 10 20 30 40 50

Map Ref.

Geo	
Compiled	
Checked	
Date	28-Feb-95

FENTON PROJECT
SECTION 8484800N - B
GOLD (PPB)

FN848488.FEB

Dwg No. Figure 35

CR95/408 B

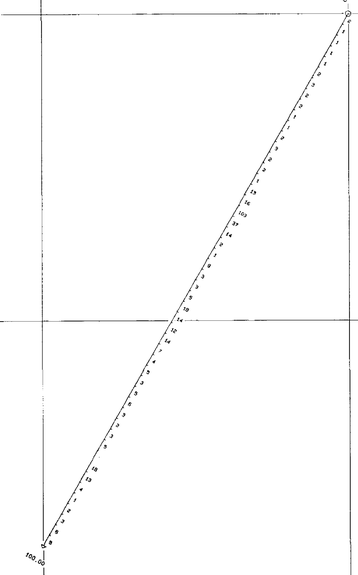
dhsectb.pf

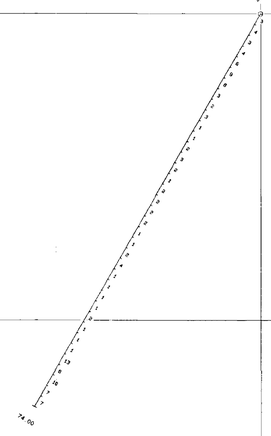
SURPAC SOFTWARE INTERNATIONAL, AUSTRALIA

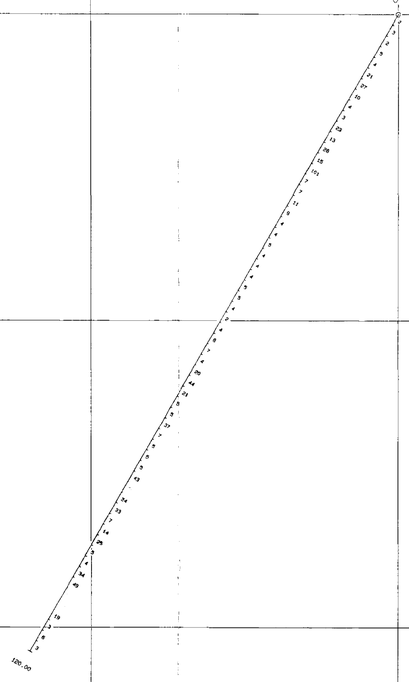
E 743250 | E 743300 | E 743350 | E 743400 | E 743450 | E 743500 | E 743550 | E 743600 | E 743650

100mRL

50mRL







0mRL

-50mRL

-100mRL

E 743250 | E 743300 | E 743350 | E 743400 | E 743450 | E 743500 | E 743550

NORTH LIMITED

A.C.N. 005 233 689

PERTH

Scale 1: 500

0 10 20 30 40 50

Map Ref.

Geo	
Compiled	
Checked	
Date	26-Feb-96

FENTON PROJECT
SECTION 8484800N - C
GOLD (PPB)

FN84848C.FEB | Dwg No. Figure 36

CR95/408 ⊕

SURPAC SOFTWARE INTERNATIONAL, AUSTRALIA

E 743300 | E 743350 | E 743400 | E 743450 | E 743500 | E 743550 | E 743600 | E 743650

100mRL

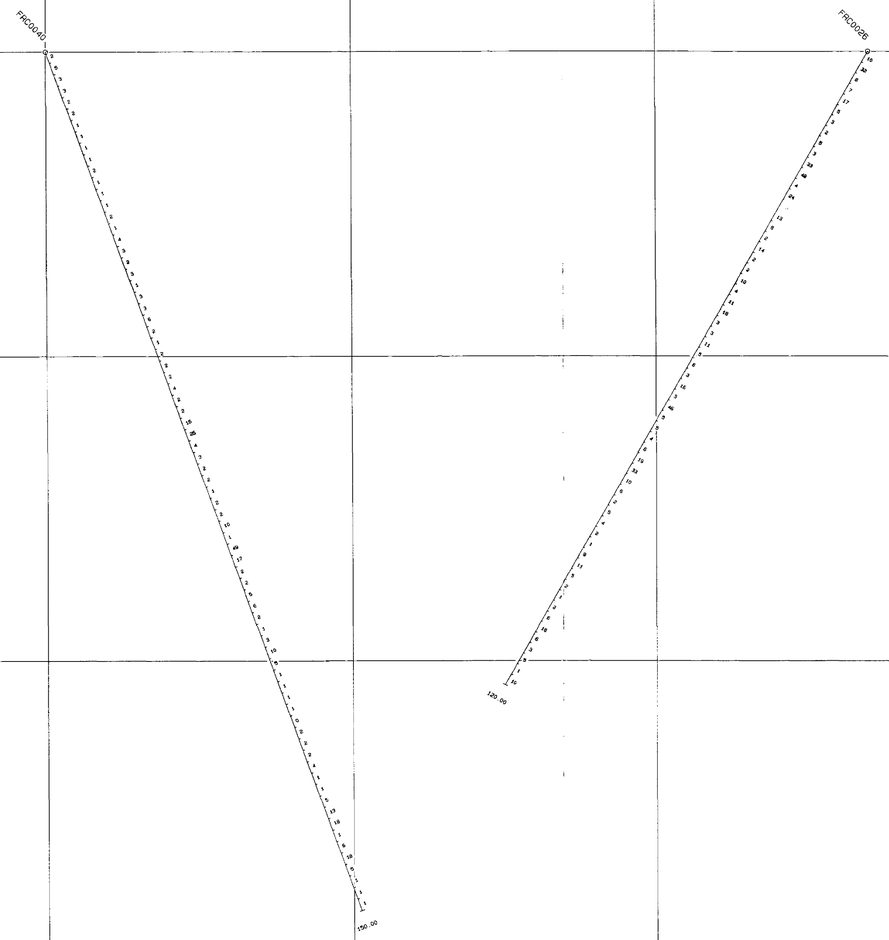
50mRL

0mRL

-50mRL

-100mRL

-150mRL



NORTH LIMITED

A.C.N. 005 233 689

PERTH

Scale 1: 500

0 10 20 30 40 50

Map Ref.

Geo	
Compiled	
Checked	
Date	27-Feb-05

FENTON PROJECT
SECTION 8485000N
GOLD (PPB)

FN8485.FEB

Dwg No. Figure 37

CR951408B

SURPAC SOFTWARE INTERNATIONAL, AUSTRALIA

E 743050 | E 743100 | E 743150 | E 743200 | E 743250 | E 743300 | E 743350 | E 743400

100mRL

50mRL

0mRL

-50mRL

-100mRL

FRC0027

110.00

E 743050 | E 743100 | E 743150 | E 743200 | E 743250 | E 743300

NORTH LIMITED

A.C.N. 005 233 689

PERTH

Scale 1: 500

0 10 20 30 40 50

Map Ref.

Geo	
Compiled	
Checked	
Date	27-Feb-95

FENTON PROJECT

SECTION 8485500N - B

GOLD (PPB)

FN848558.FEB | Dwg No. Figure 38

CR95/408 B

E 742850 | E 742900 | E 742950 | E 743000 | E 743050 | E 743100 | E 743150 | E 743200 | E 743250

100mRL

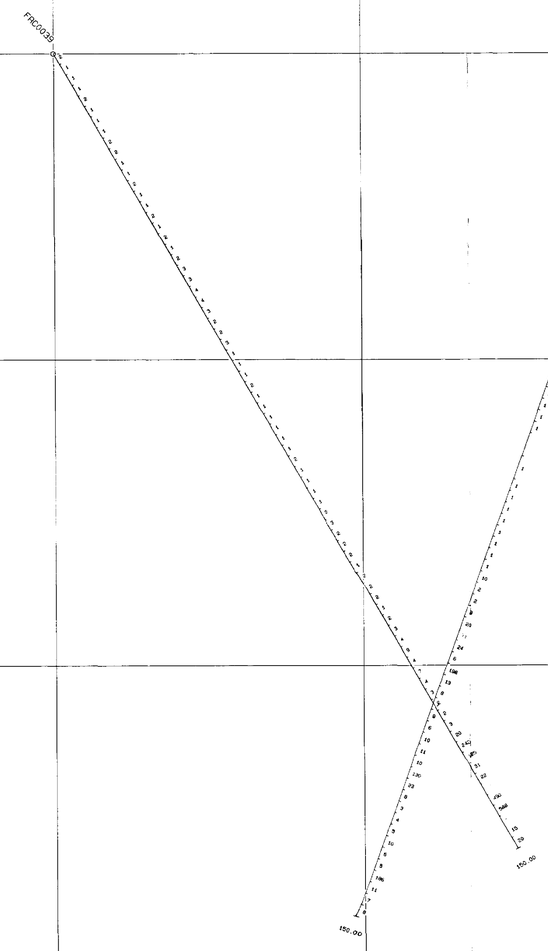
50mRL

0mRL

-50mRL

-100mRL

-150mRL



NORTH LIMITED
A.C.N. 005 233 689

NORTH
PERTH

Scale 1: 500
0 10 20 30 40 50

Map Ref.

Geo	
Compiled	
Checked	
Date	27-Feb-95

FENTON PROJECT
SECTION 8484500N
GOLD (PPB)

FN84845.FEB | Dwg No. Figure 39

CR95/408 B

SURPAC SOFTWARE INTERNATIONAL, AUSTRALIA

NORTH
PERTH

NORTH LIMITED
A.C.N. 005 233 689

Scale 1:500
0 5 10 15 20 25

Geo:
Compiled:
Checked:
Date: 13-Mar-95

FENTON PROJECT
SECTION 8484000N - B
GOLD (PPB)

FN8484B.FEB
Dwg No. Figure 40

CR95/408 B

SURPAC SOFTWARE INTERNATIONAL, AUSTRALIA

E 744150 | E 744200 | E 744250 | E 744300 | E 744350 | E 744400 | E 744450 | E 744500

100mRL

50mRL

0mRL

-50mRL

-100mRL

-150mRL

FRC0031

150.00

E 744150 | E 744200 | E 744250 | E 744300 | E 744350 | E 744400 | E 744450

NORTH LIMITED

A.C.N. 005 233 689

Scale 1: 500

0 10 20 30 40 50

Map Ref.

NORTH PERTH

Geo	
Compiled	
Checked	
Date	28-Feb-95

FENTON PROJECT
SECTION 8484000N - C
GOLD (PPB)

FN8484C.FEB | Dwg No. Figure 41

SUBRAC SOFTWARE INTERNATIONAL AUSTRALIA

S&35/403 &

E 744350 | E 744400 | E 744450 | E 744500 | E 744550 | E 744600 | E 744650 | E 744700

100mRL

50mRL

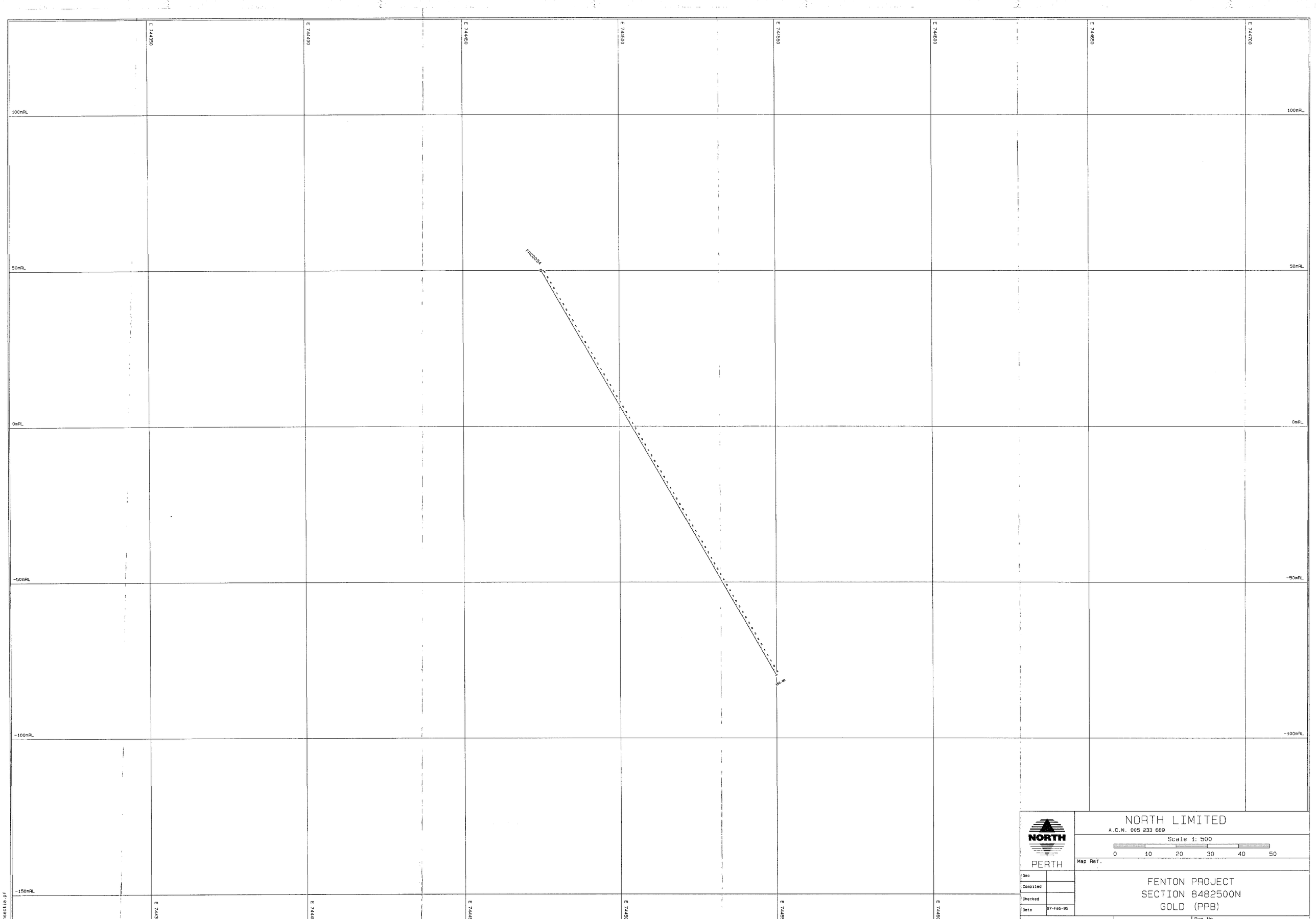
0mRL

-50mRL

-100mRL

-150mRL

FN00034



E 744350 | E 744400 | E 744450 | E 744500 | E 744550 | E 744600

dhsection.pdf

NORTH

PERTH

NORTH LIMITED

A.C.N. 005 233 689

Scale 1: 500

0 10 20 30 40 50

Map Ref.

Geo	
Compiled	
Checked	
Date	27-Feb-95

FENTON PROJECT
SECTION 8482500N
GOLD (PPB)

FN84825.FEB

Dwg No. Figure 42

E 743600 | E 743650 | E 743700 | E 743750 | E 743800 | E 743850 | E 743900 | E 743950

50mRL

FRC0035

0mRL

-50mRL

180.00

-100mRL

-150mRL

E 743600 | E 743650 | E 743700 | E 743750 | E 743800 | E 743850

NORTH PERTH	NORTH LIMITED A.C.N. 009 233 690
	Scale 1:500 0 5 10 15 20 25
Geo:	FENTON PROJECT SECTION 8483000N - B GOLD (PPB)
Compiled:	
Checked:	
Date: 13-Mar-95	FN84838.FEB — Dwg No.: Figure 43

CR95/408B

E 742950 | E 743000 | E 743050 | E 743100 | E 743150 | E 743200 | E 743250 | E 743300

100mRL

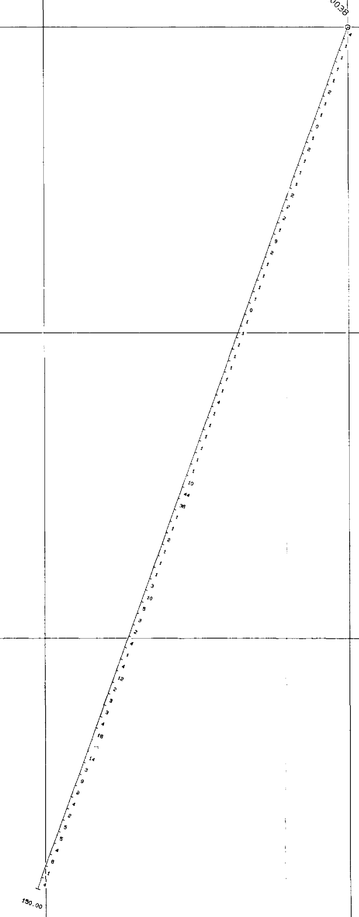
50mRL

0mRL

-50mRL

-100mRL

-150mRL



E 742950 | E 743000 | E 743050 | E 743100 | E 743150 | E 743200

NORTH LIMITED
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PERTH

Scale 1: 500
0 10 20 30 40 50

Map Ref.

Geo		
Compiled		
Checked		
Date	27-Feb-95	

FENTON PROJECT
SECTION 8484300N
GOLD (PPB)

FN84843.FEB | Dwg No. Figure 44

CR95/408 B

dgn.section

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E 744050 | E 744100 | E 744150 | E 744200 | E 744250 | E 744300 | E 744350 | E 744400

50mRL

FRC00A1

0mRL

-50mRL

-100mRL

-150mRL

E 744050 | E 744100 | E 744150 | E 744200 | E 744250 | E 744300

NORTH
PERTH

NORTH LIMITED
A.C.N. 005 233 689

Scale 1:500
0 5 10 15 20 25

Geo:	FENTON PROJECT
Compiled:	SECTION 8483000N - C
Checked:	GOLD (PPB)
Date:12-Mar-95	FN8483C.FEB — Dwg No. Figure 45

CR95/408 B

SURPAC SOFTWARE INTERNATIONAL, AUSTRALIA

E 742850 | E 742900 | E 742950 | E 743000 | E 743050 | E 743100 | E 743150 | E 743200

50mRL

FRC0042

94.00

0mRL

-50mRL

-100mRL

-150mRL

E 742850 | E 742900 | E 742950 | E 743000 | E 743050 | E 743100

dhsectib.pf

SURPAC SOFTWARE INTERNATIONAL, AUSTRALIA

NORTH
PERTH

NORTH LIMITED
A.C.N. 005 233 689

Scale 1:500
0 5 10 15 20 25

Geo:
Compiled:
Checked:
Date: 12-Mar-95

FENTON PROJECT
SECTION 8483000N - A
GOLD (PPB)

FN8483A.FEB | Dwg No. Figure 46

CR95/408 B

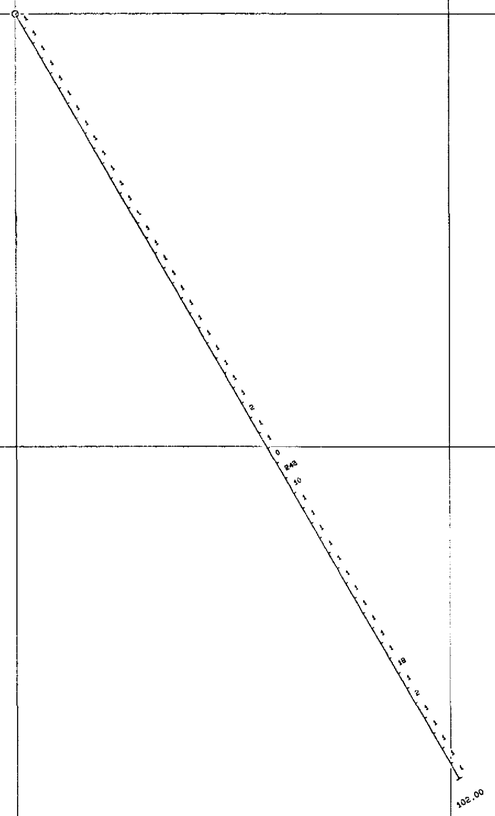
E 743250 | E 743300 | E 743350 | E 743400 | E 743450 | E 743500

100mRL

50mRL

0mRL

-50mRL



E 743250 | E 743300 | E 743350 | E 743400

NORTH PERTH	NORTH LIMITED A.C.N. 005 233 889
	Scale 1:500 0 5 10 15 20 25
Geo:	FENTON PROJECT SECTION 8482000N GOLD (PPB)
Compiled:	
Checked:	
Date: 10-Mar-95	FN8482.FEB — Dwg No. Figure 47

CR95/408 B

dnsectia.gf

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E 741850 | E 741900 | E 741950 | E 742000 | E 742050

50mRL

0mRL

-50mRL

-100mRL

FRC00441

159.00

NORTH PERTH	NORTH LIMITED A.C.N. 005 233 699			
	Scale 1: 500 0 5 10 15 20 25			
Geo:	FENTON PROJECT SECTION 8484800N - A GOLD (PPB)			
Compiled:				
Checked:				
Date: 10-Mar-95	FN84848A.FEB	Dwg No.	Figure 48	

CR95/408 B

gh&ctib.pf

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