NORTHERN GOLD N.L.

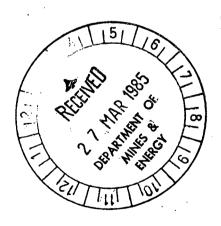
FINAL REPORT EL's 3040, 3041

3055, 4235, 4444 and 4455, HOWLEY

AREA, NORTHERN TERRITORY

DECEMBER 1984

OPEN FILE



Licences: 3040, 3041, 3055, 4235, 4444 and 4455

Licensee: Northern Gold N.L./Talmina Trading P.L.

Operator: Northern Gold N.L.

Period: 1982 - 1984

Location: Pine Creek 1:250,000 SD52-B

Tipperary 1:100,000 5170

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NORTHERN TERRITORY GEOLOGICAL SURVEY

CR85/099

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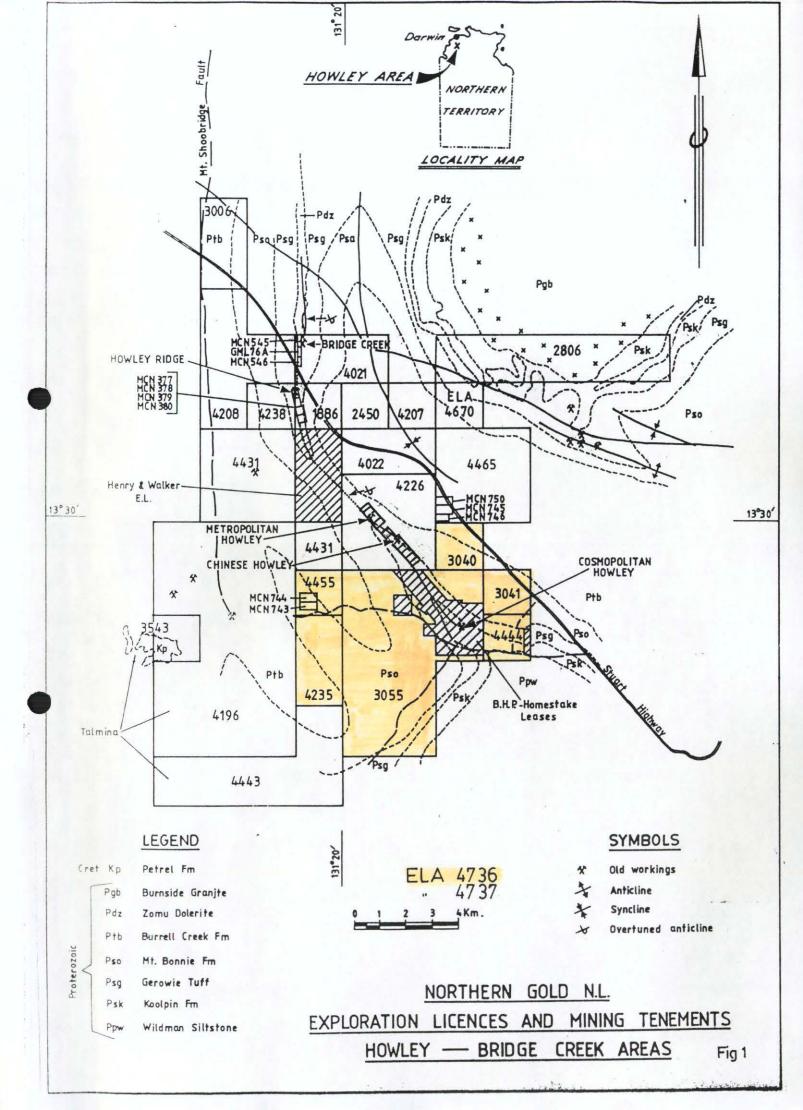
1. INTRODUCTION

In December 1983, Northern Gold N.L. became the operator Exploration Licences previously held or οf operated by Talmina Trading P.L. in the Howley area, Northern Territory. In December 1984 these tenements were consolidated and two Exploration Licences were for, E.L.A. 4736 and 4737 (Fig. 1). This report describes the results of exploration carried out on EL's 3040, 3041, 3055, 4235, 4444 and 4455 now covered by E.L.A. 4736.

licences surround the block of claims held by BHP-Homestake that cover the Cosmo Howley mine and Howley Anticline Structure. EL 4444 covers part of eastern limb of this anticline and contains prospective units of the Middle Koolpin Formation. Gold alluvials shedding east from the Howley Line were tested in EL's 3040 and 3055. Little work was carried out west of the Howley Line but this area contains an anticlinal structure paralleling the main Howley Anticline consequently is prospective for a similar style mineralisation. Tin bearing pegmatites also occur in EL's 4455 and 4235.

The exploration programme is on-going but the majority of work has involved the preliminary assessment of the alluvials and the testing of the Koolpin Formation east of Cosmo Howley. The report on EL 4444 is presented in Section 1 while the work carried out on the other areas is summarised in Section 2. A summary of tenements is given below:

EL	$AREA (km^2)$	DATE OF GRANT	LICENSEE
3040	3	8/1/82	Talmina Trading P.L.
3041	3	8/1/82	Talmina Trading P.L.
4235	6	17/6/83	Talmina Trading P.L.
4444	3	16/7/84	Northern Gold N.L.
4455	3	16/3/84	Northern Gold N.L.



INTERIM REPORT ON EXPLORATION ACTIVITIES

E.L.4444, EAST COSMOPOLITAN HOWLEY

NORTHERN TERRITORY

A. P. BRAVO

G. N. KATER

NOVEMBER 1984

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OF PROSPOSED DRILL HOLES

INTRODUCTION

Exploration Licence 4444 comprising one block of approximately 3.3 square kilometres was granted to Northern Gold N.L. on July 16, 1984.

The licence area is free of other encumbrances except for a block of ML's (1596-1608B) which partially overlap the eastern boundary (see tenement Plan, Fig. 1).

The EL is located in the NE corner of the Tipperary 1:100,000 Sheet approximately 175 kilometres SSE of Darwin at latitude 13°32' south and longitude 131°24' east.

Access is via the Stuart Highway and then south along the Fountainhead Road to its intersection with the old Highway which is central to the described area of activity.

The area was previously explored by the Bureau of Mineral Resources, which conducted geochemical sampling and drilled one diamond drill hole (DDH-1), located at grid position 49,995N; 50,320E (see geological plan ECH-2), apparently to test for copper mineralisation. As far as is known, no analyses were conducted on the drill core (Bulletin No. 12, Sullivan & Iten, 1952).

This report outlines the work done and results of exploration since activities commenced in July, 1984.

The exploration by Northern Gold N.L. has been directed towards locating gold mineralisation associated with the Middle Koolpin Formation. Work carried out so far has consisted of interpretive air photo mapping, gridding, geophysical surveying using the Rapid Reconnaissance Magnetic Induced Polarisation (RRMIP) electrical technique, grid geological mapping at 1:2,500 scale, Costeaning of RRMIP anomalies and continuous horizontal chip sampling of rocks exposed in the costeans.

2. CONCLUSIONS AND RECOMMENDATIONS

- 2.1 RRMIP geophysical surveys in E.L. 4444 have shown an extensive conductive and chargeable anomalous zone extending over an easterly strike length of 1,600 metres coinciding with units of the Koolpin formation, east-south-east of the old Cosmopolitan Howley mine.
- 2.2 Geological mapping and geochemical sampling at surface and in costeans has identified several units of Koolpin formation two of which coincide with the major RRMIP anomalous zone and anomalous arsenic values. These units comprise an upper banded siliceous ironstone formation (Psks) and an adjacent sequence of pyritic mudstones, micaceous siltstones, slates, shales and calcareous sediments (Pskp). RRMIP anomalous centres often coincide with folding and flexuring of the two units.
- 2.3 Gold mineralisation is usually associated with sulphides and is present in the Psks and Pskp units, quartz veins in the Gerowie Tuff and dolerite contact zones.
- 2.4 Five inclined diamond drill holes (about 850 metres total) are proposed, drilling grid south at 60° to test geophysical anomalous centres correlating with the Psks and Pskp units, anomalous surface arsenic geochemical values and sometimes structural flexures. Analyses of drill core should include gold, silver, arsenic, manganese and in selected portions, copper and lead.
- 2.5 Additional drilling would depend on the results of the preliminary programme.

GEOLOGICAL SETTING

The geological environment is noted for its past gold production from a number of old mines including Metropolitan, Chinese and Cosmopolitan Howley mines located along the axis of the Howley Anticline.

E.L. 4444 covers the area immediately east south east of the Cosmo Howley old workings and the northern limb of the Howley Anticline strikes west to east through the centre of the E.L.

Koolpin Formation, which hosts the stratiform gold mineralisation, consists of micaceous to phyllitic brown siltstone containing siliceous and sulphide facies iron formation, altered calcareous siltstone and pyritic as well as carbonaceous shale. Grey carbonaceous mudstone at the top of the Koolpin Formation is overlain by laminated tuffaceous siltstone, interbedded, felsic chert and quartzite belonging to the Gerowie Tuff. The sediments were intruded at several levels by sills of Zamu Dolerite prior to the major phase of regional deformation.

The geology and mineralisation of the ore horizon as it occurs at Cosmopolitan Howley is summarised in the attached handout provided by Anaconda Australia who are currently carrying out exploration of the deposit (see Appendix 1).

4. WORK DONE AND RESULTS

The main target of exploration so far has been the stratiform gold mineralisation associated with sulphides in the Middle Member of the Koolpin Formation.

The programme consisted of:

- 4.1 gridding
- 4.2 geological mapping
- 4.3 RRMIP geophysical survey
- 4.4 costeaning and sampling

The work done and the results are described below:

4.1 Gridding

For the purpose of geological mapping and the geophysical survey, a grid, with base line at 090° magnetic, was laid out using topofil and hand-held monocular compass.

Pegs were positioned at 100 metre intervals on cross lines 100 metres apart.

Following initial airphoto interpretation the grid was positioned between the western boundary of EL4444 and the ML's on the eastern boundary to cover the maximum strike length of the Koolpin Formation.

4.2 Geological Mapping

The gridded area was mapped in detail on 50 metre traverses and plotted at 1:2,500 scale.

Rock exposures were found to be reasonable although float mapping was necessary in some areas on the steeper hill slopes.

The dominating geological features of the mapped area are the two prominent ironstone horizons developed on surface above zones of interbedded banded iron formation and chemical sediment. They can be traced almost continuously within the Koolpin Formation along strike and provide evidence at a number of locations of structural flexure and parasitic folding.

The lower, combined haematitic ferruginous gossan and siliceous ironstone and the upper siliceous ironstone proved to be useful stratigraphic markers so that it was possible to map at least 5 units within the Koolpin Formation besides the ubiquituous redbrown, finely laminated micaceous siltstone.

The units are shown on the geological map (Figure ECH-2) and can be identified as set out in the legend. To further identify some lithologies 6 specimens (TSH 25 - TSH 30) were collected and sent to Dr. B. J. Barron for petrological description. Sample details are set out below:

SAMPLE NO.	DESCRIPTION	LOCATION
TSH 25	Greyish-red tuffaceous siltstone Psg	Costean SH1/47m
TSH 26	Grey shale Pskc	SH1/67m
TSH 27	Tremolite/cretinolite rock with module Psks	SH1/160m
TSH 28	Laminated greywacke Psks	'SH1/169m
TSH 29	Greywacke with sulphide casts Psks	SH1/180m
TSH 30	Spotted greywacke with fine vein meshwork Pskf	SH5/30m

The results of this work have not been received to date.

The lower iron formation which has been designated Pskf on the map is approximately 15 metres thick. The sequence consists of banded haematitic units and tremolite/cretinolite rock interbedded with reddish micaceous siltstone overlying thin units of siliceous iron formation in blue-grey spotted haematitic schist.

Dolerite which has consistently intruded at a level above the Pskf unit has been altered at the contact to talc carbonate.

At the southern end of costean SH1 and in the SW area of the grid the Pskf is underlain by 60 metres of reddish brown micaceous siltstone containing thin quartz BIF's which appear to diminish along strike to the east as they are not as prominent in costeans SH2 and SH5.

The upper siliceous iron formation Psks is approximately 25 metres thick and overlies a sequence containing tremolite/actinolite rock and ovoid modules in laminated grey siltstone (module conglomerate).

Above the Psks sequence, pyritic shale Pskp and grey to sooty carbonaceous shale Pske have been intruded by dolerite producing bleached argillic (Kaolinised) alteration zones at the contact.

The grey carbonaceous shale is distinctive and marks the top of the Koolpin Formation.

4.3 Geophysics

RRMIP surveys consisting of three standard arrays (designated 28N, 29N and 30N) were carried out in July 1984. At the completion of the survey a detailed array (39N) centred on 50050N/51000E was run to determine the structure and to aid interpretation of the primary data.

The objective of the survey was to locate and define areas containing segregations of sulphides in quartz reef systems or sulphide/gold mineralisation in units of the Koolpin Formation.

A description and explanation of the method, parameters measured, data presentation and discussion of results are contained within: "Comments on Rapid Reconnaissance Magnetic Induced Polarisation Surveys over various Exploration Licences, near Howley Northern Territory - Scintrex Pty. Ltd., August, 1984."

The results indicated a series of strong MMR conductors semi-continuous but traceable throughout the length of the grid. They were interpreted by Scintrex Pty. Ltd. to be due to a narrow source with near vertical dip and great depth extent.

The form of the MMR response appears consistent with the mapped geology and highlights the continuity along strike was well as the structure of the iron formation horizons Psks and Pskf.

The RPS (chargeability) data shows a large, broadly sinuous internal IP response following the track of the MMR conductor. It is attributable to a highly conductive and extremely chargeable zone containing disseminated to semi-continuous sulphides.

The peak RPS anomalies, which are quite substantial, all occur north of the surface outcrop of the siliceous banded iron formation Psks, and are believed to coincide with sulphide hineralisation in both the Pskp and Pskc units at depth.

A second, less developed conductor axis, which is apparent 100m south of the major conductor, could be associated with the Pskf unit.

4.4 Costeaning and Costean sampling

A number of costeans were proposed to test the major anomalous RRMIP peaks along strike, assist with geological mapping and conduct geochemical rock channel sampling.

Six costeans numbered SH1 to SH6 were dug with a backhoe for a total length of 897 metres. Details of the costeans and their objective are set out below:

COSTEAN	LOCATION	LENGTH	TARGET
SH1	50000E/50400N to 50020E/50024N	0 to 380 metres	RRMIP & stratigraphy
SH2	50193E/50055N to 50191E/49990N	0 to 65 metres	Stratigraphy & Pskf
SH3	50400E/50227N to 50400E/50048N	0 to 175 metres	RRMIP & stratigraphy
SH4	50590E/50168N to 50590E/50040N	0 to 126 metres	RRMIP & stratigraphy
SH5	50665E/50008N to 50677E/49958N	0 to 57 metres	Stratigraphy & Pskf
SH6	51407E/50072N to 51383E/49978N	0 to 97 metres	RRMIP & stratigraphy

Costeans were dug to a depth to which chip samples could be taken in undisturbed weathered rock. The samples were collected from the wall, immediately above the floor, as continuous grooves over 5 metre lengths. Sampling, in each costean was conducted from north to south. Sample weights varied between 1.5 and 2 kg.

All horizontal channel samples were submitted to Analabs, Darwin for analysis for Cu, Pb, Zn, Ag, As and Au.

Gold was determined, following, agua regia attach, from a 50 gm sample weight with AAS finish. Arsenic was determined using the pressed powder XRF method.

The results, together with sample intervals, are included in Appendix 2. 157 samples were submitted.

The gold values were low, possibly due to surface leaching, with a best value of 0.25 g/t from a channel sample crossing the Pskp-Psks contact in SH-6. Increases in arsenic values are over the Pskp unit at surface sometimes extending into the upper banded iron formation (Psks).

Based on their correlation with anomalous arsenic values, together with some low gold values, the Psks and Pskp units are the most prospective horizons.

5. PROPOSED DRILLING PROGRAMME

A preliminary scout drilling programme is proposed to test possible gold-sulphide mineralisation with the Pskp and Psks units of the Koolpin Formation with E.L. 4444.

Diamond drilling is proposed with all holes initially inclined at 60° from horizontal towards grid south with depths to at least 150 metres. The proposed collar locations of the drill holes (see accompanying RRMIP survey plan) in order of priority are as follows:

DH-1:

50225N, 50390E. This drill hole, 10 metres west of costean SH-3, is proposed to test a strong RRMIP anomalous zone, coinciding with Pskp unit comprising a sequence of pyritic mudstones, siltstones, calcareous sediments and grey to black sooty carbonaceous slates and shale overlying the upper siliceous banded iron formation (Psks). shape of the RPS contours suggests an overall vertical to steep northerly dip. In the nearby costean SH-3 the Pskp unit has a distinctively higher arsenic background (100 to 350 ppm) than surrounding units (15 to 65 ppm). The shape of the geophysical anomaly correlated with surface geology suggests strong structural flexuring at this location.

DDH-2:

50200N, 50480E. This drill hole, between costeans SH-3 and SH-4, is proposed to test another portion of the same anomalous zone as DDH-1. At this location there is a strong fold in the upper banded iron formation (psks) and the hole should intersect both the Pskp and Psks units at depth. It is noteworthy that in costean SH-4, 110 metres east of the proposed hole higher arsenic values (110 to 170 ppm) coincide with the Pskp unit at surface than those values (20 to 80 ppm) associated with surrounding rock-types.

DDH-3:

50265N, 50100E. This drill hole is proposed to test two sub-parallel anomalous RRMIP zones associated with structural flexuring of the Koolpin Formation. The shape of the RPS contours suggests an overall vertical to steep northerly dip. The hole would be expected to intersect the updip portion of the source of the northern zone associated with the Pskp unit and the source of the southern zone, associated with the Psks unit (B.I.F.) at depth. Depending on results additional drilling with collars at 50300N, 50100E and 50250N, 50165E may be warranted. In the costean SH-1, 50 metres west of the proposed DDH-

3, anomalous arsenic values (120 to 360 ppm) coincide with the Pskp unit and the northern part of the Psks unit with some low background gold values. Arsenic background values in surrounding rock types vary from 25 to 80 ppm.

50100N, 50980E. This drill hole is proposed, 20 metres west of the Fountainhead Road, to test a strong RRMIP anomalous centre with its source near the contact of the Pskp and Psks units. Interpretation of the results from both the standard and detailed RRMIP arrays suggests near vertical to steep northerly dips. The hole should encounter the source at around 80 to90 metres vertical depth.

50065N, 51400E. This hole is proposed, close to costean SH-6 to test an anomalous centre, with its source at depth probably close to the contact between the Pskp and Psks units. Dip is interpreted to be steeply north. In costean SH-6, a five metre horizontal channel sample (SH-6, 70-75) crosses above mentioned contact and contains anomalous geochemical values of 220 ppm Arsenic and 0.25 g/t gold. This is the most southern part of a broad arsenic anomalous zone (60 to 340 ppm) coinciding with the Pskp unit and the Zamu dolerite. Background arsenic values in surrounding units range from 15 to 55 ppm.

DDH-4:

20H-5:

APPENDIX 1

COSMOPOLITAN HOWLEY MINE

ANACONDA GEOPEKO JOINT VENTURE

GEOLOGICAL SUMMARY - AUGUST 1984

HISTORY

- ° Cosmopolitan Howley discovered in 1890's worked under tribute by Chinese.
- Produced about 30,000 ozs to 1900, (12 g/t).
- ° 1900-1930's no activity
- ° 1939 Anglo Queensland sunk a shaft (53m) and completed an underground sampling program, no recorded production.
- ° 1957-1963, BMR completed an eight hole diamond drill program.
- ° 1974 acquisition by BHP, two diamond holes drilled.
- ° 1939-1975, 15 diamond drill holes for 1753m.
- ° 1976, Homestake option, 19 diamond drill holes for 2224 metres. Nine underground holes for 391 metres.
- ° 1982 Geopeko-Anaconda option from BHP-Homestake.
- ° 1982 1984 21 holes for 7410 metres.

STRATIGRAPHY

The stratigraphic column set up for the Golden Dyke Dome by Nicholson is illustrated in Figure 1. The II to I5 package is present at Cosmo, however, we now divide the Middle Koolpin into a lower stratigraphic unit (II to I3) capped by a major carbonate horizon with a gold peak at the I3 level; and an upper stratigraphic package (M3, I4, M4 and I5 units) which has been the major target of the 1982-1984 program.

STRUCTURE

The sequence at Cosmo has been folded into an assymetrical anticline plunging to the northwest at 50-70°. The limbs of the fold are sheared and faulted, parasitic folds are common on both limbs with a major thickening of the I5 BIF on east limb, the parasitic folds plunge at 15-40°.

A pre-deformation hornfels fabric now shows an axial plane cleavage/foliation overprint.

A series of faults with east block north and up modify the anticlinal structure, the most significant feature of which is the juxtaposition of the outer east limb "actinolite facies" BIF adjacent the main fold nose "graphitic facies" BIF, Figures 2 and 3.

A deep drill section 1800N is shown in Figure 4.

MINERALIZATION

The detailed examination of mineralized drill core from the Cosmopolitan Howley Mine suggests that a number of mechanisms have been operative in concentrating the gold in BIF and related litholgies of the Middle Koolpin Formation. Three controlling factors have been proposed:

- Stratiform gold related to exhalitive sulfide facies BIF.
- Concentration by deformation into tight fold positions.
- 3. An epigenetic overprint of gold introduced by quartz veins in the axial zone of the anticline probably late deformation in age.

1. Stratiform Gold:

Gold mineralization correlates with sulfide facies (pyrite-pyrrhotite \pm are senopyrite) I5 iron formation. Gold grades terminate abruptly in the M4 pelites and in the hanging wall carbonaceous mudstones. This lithological control is picked out by the Al content which exceeds 3% in the more pelitic rocks. Both Ca (1-5%) and Mn (3000ppm) values are high in the iron formation and correlate well with the gold grades. Arsenic values show a broad anomalism over the mineralized intervals and falls in the range of ± 1000 ppm with local peaks in excess of 5000 ppm. The iron content varies from 10-15% and equates broadly with an estimate of the modal sulfide content.

In summary gold mineralization shows a strong correlation with lithology which is reflected in positive correlations with As, Fe, Ca and Mn and an inverse relationship to Al content. There is an absence of quartz veins or fracture systems which could provide channelways for mineralizing fluids, and of significant alteration which could be related to epigenetic processes in drill core. Consequently, a post-deformation genesis to the gold is not evident on either a macro or micro scale.

2. Remobilization

No obvious evidence can be seen of the influence of the contact metamorphic event on the distribution of gold. The principle metamorphic changes were probably isochemical with the conversion of semi-cacareous pyritic "siltstone" layers to tremolite-actinolite rich bands. The interbedded layers of chert merely recrystallised and it is likely that pyrhhotite formed at this stage from existing pyrite.

There is considerable evidence to suggest that gold has preferentially concentrated in the hinge zone of the Howley anticline and this is borne out by the decrease in quantity of Chinese workings in the limb positions at surface. Gold grades attenuate markedly in the relatively underformed limb positions. In the axial zone of the fold the I5 BIF unit has been repeated by strike faulting which is thought to represent the final phase of the deformation when the competent BIF beds responded to the tight folding by brittle failure.

The occurrence of what is interpreted to be favourable facies BIF (i.e. high sulfide content, well banded, amphibole rich, low Al, high Fe, Ca, Mn and visible aresenopyrite) in limb positions commonly has background grades in the order of 1-3 g/t Au. It is believed that these reflect primary protore grades which require a secondary concentrating process such as deformation to achieve grades of 5-8 g/t Au, present in the fold nose.

3. Quartz Vein Gold

The "Main Fault" is quartz veined with milky quartz blows up to 3m wide pinching and swelling within a graphitic shear. The margins of the quartz veins are brecciated with fragments of country rock set in a quartz sulphide matrix.

Alteration haloes adjacent to quartz veins comprise intense argillic (kaolin) plus pyrite with weaker silicification and core sulphide ± quartz breccias/veins.

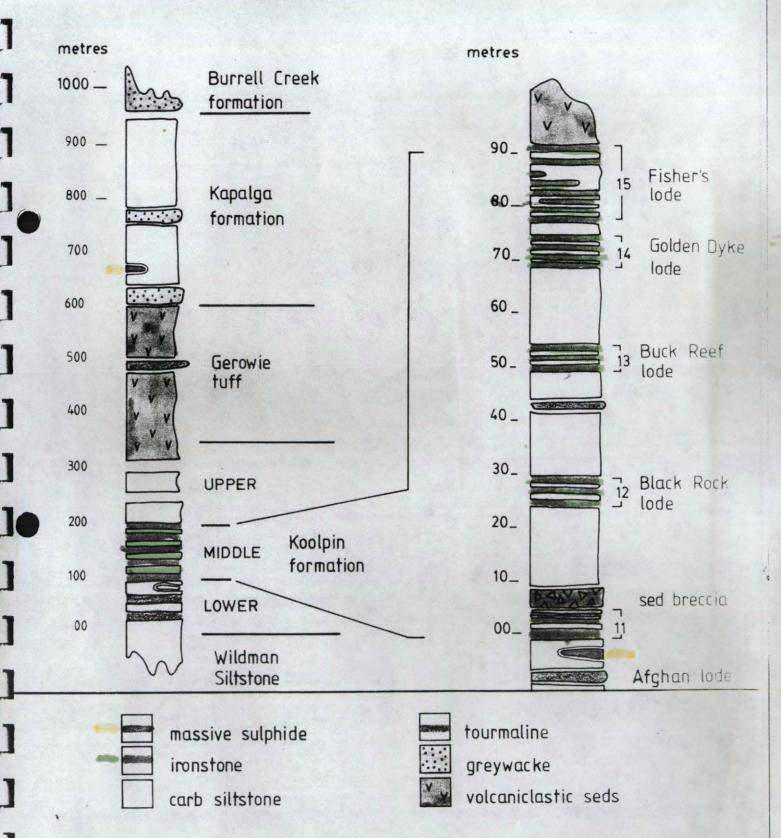
This sytle of mineralization has resulted in altered mudstones carrying gold to +3 g/t level with high grade values in "BIF units" cut by the vein system.

ACKNOWLEDGEMENTS

Homestake/BHP gave permission for the release of data by the Anaconda/Geopeko ${\sf JV}$ partners.

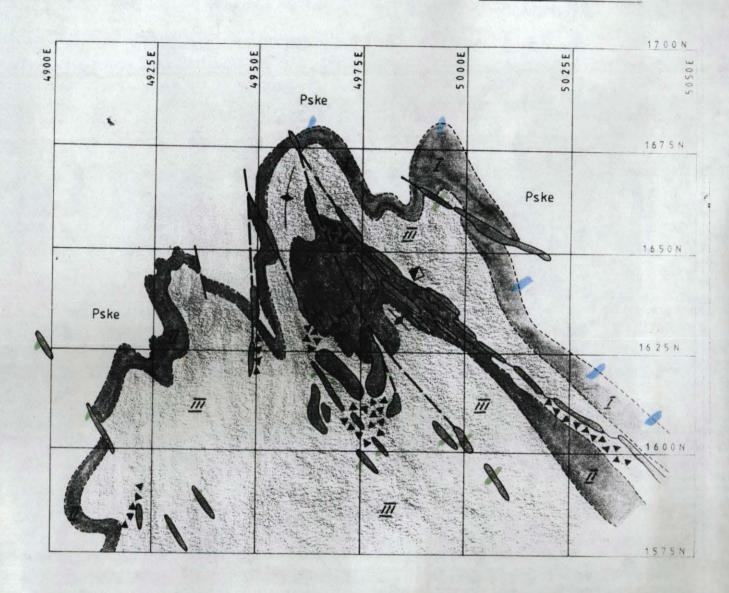
The summary given is from review of the JV program M. Kavanagh and R. Furnell of Anaconda Australia Inc and P. Wilson (formerly of Geopeko), now with Pan Con and C. Ricketts of Geopeko.

GOLDEN DYKE PROJECT lower proterozoic stratigraphic column



COSMO HOWLEY

SURFACE GEOLOGY



Pske Upper Koolpin.

2.5 m



15 BIF Garnet/Actinolite Facies.



15 BIF Graphitic Facies.



Upper M4 Mudstone/BIF.



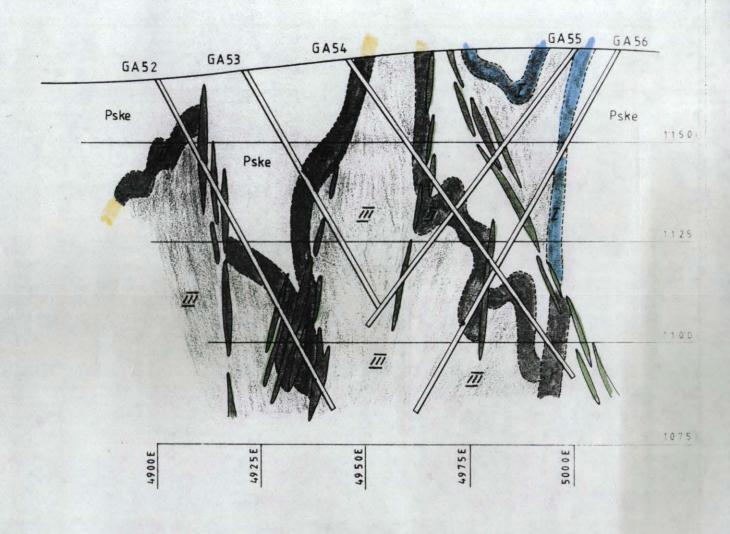
Breccia.



Quartz Veins.

COSMO HOWLEY SECTION 1660N

INTERPRETED GEOLOGY



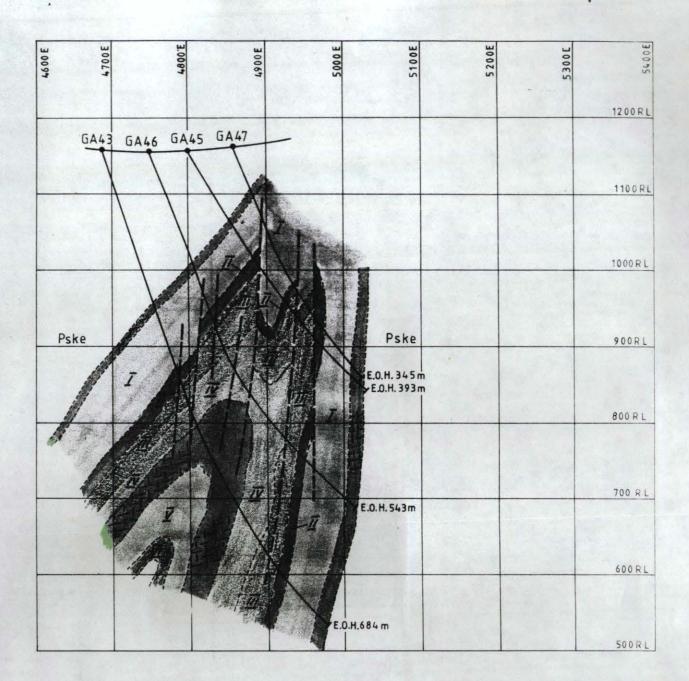
Pske Upper Koolpin.

15 BIF Garnet/Actinolite Facies.

15 BIF Graphitic Facies.

Upper M4 Mudstone/BIF.

Quartz Veins.



Pske Upper Koolpin

М

M4 BIF - Mudstone

Metadolerite

Ø

M4 Mudstone

Ī

Carbonaceous mudstone

V

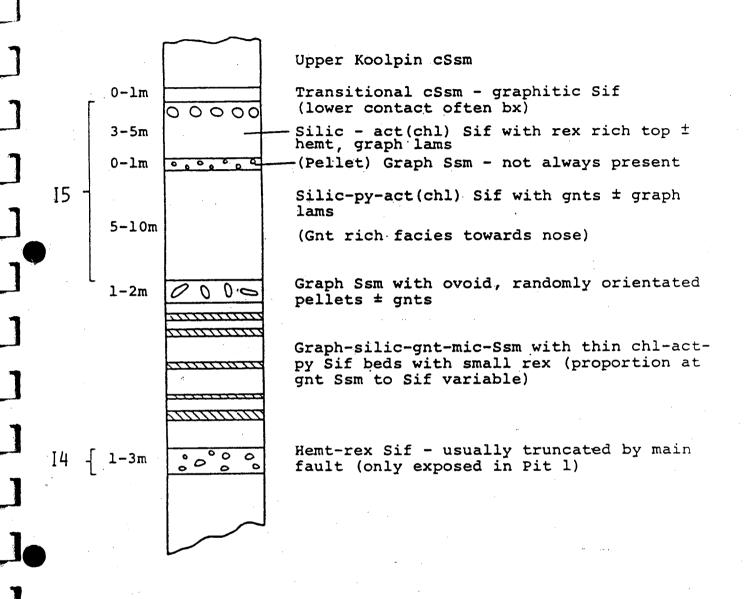
M3 BIF - Mudstone - Carbonate

15 Banded Iron Formation

1/6

13 Banded Iron Formation

COSMO HOWLEY
Section 1800N



COSMOPOLITAN HOWLEY

STRATIGRAPHIC COLUMN

EAST OF MAIN FAULT

COS, OPOLITAN HOWLEY

STRATIGRAPHIC COLUMN

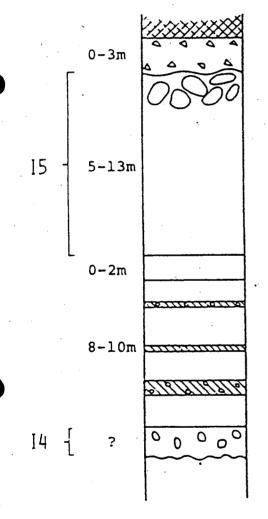
WEST OF MAIN FAULT (PIT 5)

Hemt-silic Sif with large rex pods Hemt-silic Sif with small scattered rex pods 1-3mGraph-Ssm with ovoid pellets - nature of 0-lmpellets varies along strike 1-2mGraph Ssm ± gnt ± hemt Silic-seric-graph Ssm [±] gnt, chl-rex (white spotted rock) जगाष्ट्रःसमार 10-15m Graph-seric-hemt stained phyllite ± thin Sifs ه ه 14 Silic Sif (Ssm) # rex pods (not always present) 2-3mPink-brown musc-biot-hemt stained phyllites ± 10-40m thin Sifs Gabbro

COSMOPOLITAN HOWLEY

STRATIGRAPHIC COLUMN

WEST OF MAIN FAULT (CENTRAL WEDGE)



Main Fault. Quartz vein and breccia
Upper Koolpin cSsm distorted ± bx
(not always present)

Graph-py-act Sif with rex rich top (large
rex-Pit lA or small rex-53m level)

Graph lam and py rich Sif at base + rex bands

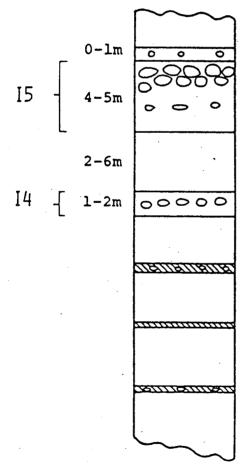
Graph Ssm ± pellets (not present near nose)

Graph-mic-hemt Ssm with Sif lams minor gnts
away from nose

Act-chl-seric rex Sif with minor graphite (not outcropping - possibly intersected at 53m level)

COSMOPOLITAN HOWLEY

STRATIGRAPHIC COLUMN WEST OF CENTRAL WEDGE



Upper Koolpin cSsm Transitional hemt cSsm with rex pods

Graph-act-py Sif with large rex pods clast supported rex rich top, well banded.

Graph Ssm with chlorite lams minor py (mineralised)

Silic-hemt-rex Sif

Graph-mic-Ssm with thin Sifs

APPENDIX 2

ANALABS ANALYTICAL REPORT

RESULTS OF ANALYSES OF CHIP

SAMPLES - COSTEANS SH-1 TO SH-6

ANAPAIGALDAYA

	SAMPLE PREF	IXX	Y 2 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	PERORI HUM		SERCEL DA	A CLEN	CORDER Ho		AGE IS
SH1	NORTH	TO SOUTH	999.	0 14 10	04 "	22.10.8	4 NG 47	en e	1	OF 1
TUBE No.	SAMPLE No.	Cu	2n 🧦	As 🔻	Rø	Au 🍇 🎏	Pb ,, ,			
1	SH-1: 100-110	280	240	25	×	ж	5		Zhou	Succes !
2 ,	110-120	120	330	45	×	0.095	×		ZMMO .	25 WK:
3	120-125	330	590	55	×	0.005	5	1	ZMOW	DOLL A
4	125-130	255	155	170 `	×	0.005	85		Pokp	
5	130-135	210	20	180	×	0.015	190		1	· · ·
6	135-140	290	1 0	150	×	×	360	+ 34 · *		
7	140-145	100	30	180	x i ja	0.015	340			
8	145-150	240	20	210	0.5	0.010	150			
9 .	150-155	460	25	240	0.5	ж	345		Pako	
10	155-160	210	30	360	×	×	1450		Paks	
1.1	160-165	135	135	120	×	0.005	40			· · · · · ·
12	165-170	80	110	80	ж	×	10			
13	170-175	50	255	75	1.0	x , :	×		·	·
14.	175-180	35	170	65	×	×	×		15ks.	
15	180-185	20	165	30	×	0.005	×		13KS - 13	Sinc.
16.	185-190	30	145	60	×	0.005	×		PEKM.	ļ
17	190-195	25	105	40	×	×	×		Pokin.	
18	195-200	50	140	70	х	x .	×		Pakm.	
19						<u> </u>				
20		PAKT O	COST	AAN	SH-L					ļ
21										
22									•	
23	DETECTION	5	5	2	0.5	0.005	5	entra esta en la companya en la comp		
24	DIGESTION			-	13. 13. 11.			t da e te	•	
25	METHOD	101	101	401	101	305	101	- Autoria		

Results in ppm unless otherwise specified

T = element present; but concentration too low to measure

X = element concentration is below detection limit

= element not determined

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ANALABS

Phone (09) 458 7999

52 Murray Road, Welshpool, W.A. 6106

Telex AA92560

ANALYTICAL REPORT No. 999.0 14 1020

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

ORDER No. PROJECT Northern Gold N.L. NG 47 c/-P.O. Howard Springs NT DATE RECEIVED **RESULTS REQUIRED** 17.10.84 No. OF PAGES No. OF COPIES DATE OF RESULTS REPORTED TOTAL No. OF SAMPLES 3-11.84 3 139 PRE-TREATMENT ANALYSIS REFER TO ANALYSIS SECTION SAMPLE NUMBERS МЕТН CRUSH SPLIT NONE PREPARATION SH1-6 1 2 Cu Ph Zn 101 3 4 As. 401 Au 305 **REMARKS** COSTEANS SH-1 SH-6 TO COSTEAN DISTANCE. ALL **RESULTS** EAST COSMOPOLITAN HOWLEY. TAKEN METRES IN TO FROM E.L. 4444. NORTH TO Soul GEOLOGICAL UNITS SHOW **RESULTS** RIGHT HAND COLUMN TO ANALYSIS — METHOD STATE OF SAMPLES ANALYSIS - PREPARATION A1 cold Stid
A2 specific suplide
A3 arthet nixed ocids
A4 appropriate ortod
A5 volgilization
A6 pressed powder (XRF)
A8 class tuston (XRF) perchloric acid hydrochloric acid ole core AAS XRF SPEC atomic absorbtion SC CU it core **55** + x-ray fluorescence spectrophotometry nitric ocid oqua regia ting colorimenty chromotography Ro SO PU COL nitric-perchiloric CHR

HF mixture

fusion

HF under pressure

WA TI

HM

om sediment

vy mineral

AUTHORISED OFFICER

glass fusion (XRF)



inductively coupled plasma ICP

other chemicals means

miscellaneous

ITN

CHEM

FLUOR

MISC

Miration ...

fluorescence

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ANALYTICAL DATA

·	SAMPLE PREFIX		REPORT NUA	ABER	REPORT DA	NTE .	CLIE	NT ORDER NO		PAGE
MET	RES FROM NORTH TO S	. гн 999.	0 14 10	320	3.11.84	•	NG47	•	1	OF 6
TUBE No.	SAMPLE No.	Cu	Zn	As	Au	Pb				
1	SH1 0-10	80	30	130	×	20			P3.	
2	SH1 10-20	35	40	80	×	15			γ.	
3	SH1 20-25	65	35	85	×	10				
4	SH1 25-30	50	100	110	0.025	20				
5	SH1 30-35	45	175	55	0.005	5				
6	SH1 35-40	35	190	45	×	20			į	
	SH1 40-45	55	130	60	×	20			\	
8	SH1 45-50	115	175	45	ж	25			Psa	
9	SH1 50-55	245	340	45	0.005	10			Pag-Pa	ke
10	SH1 55-60	290	100	120	0.005	55		*	Pske	
11	SH1 60-65	130	10	95	×	50			1	
12	SH1 65-70	95	10	170	×	65				
13	SH1 70-75	90	20	250	×	75				
14	SH1 75-80	125	15	180	×	80				
15	SH1 80-85	420	10	85	×	80				
16	SH1 85-90	250	5	70	×	125			Pske	
	SH1 90-95	160	20	80	×	90			ZAMU	POLEKITE
18	SH1 95-100	200	245	30	×	30			ZAMU	DOLOKIT
19	* * * SH1 200-210	120	95	60	×	10			* * *	SCEERT
20	SH1 210-220	135	70	25	ж	40			1	
21	SH1 220-230	150	120	80	×	75				
22	SH1 230-240	145	80	40	ж [.]	30			<u> </u>	
23	SH1 240-250	135	120	65	×	65			ZHMU	POZEKITA
24	SH1 250-260	140	60	75	×	40	,		ZAMU -	1265
25	SH1 260-265	125	40	140	×	30			Pakf.	

Results in ppm unless otherwise specified

T = element present; but concentration too low to me

X = element concentration is below detection limit

= element not determined

ANALYTICAL DATA

J	SAMPLE PREF	ix	REPORT N	UMBER			CLIE	NT ORDER N	la.		PAGE	-
	NORTH YO	J., 74	999.0 14	1020	3.11.8	4	NG47	,		2	OF 6	_
TUBE No.		Cu	Zn	As	Au	Pb						- !
1	SH1 265-270	a 50	30	210	×	20			131	ς ή		_
2	SH1 270-280	0 65	50	85	0.005	15			Pak			_
3	SH1 280-290	9 40	50	85	×	10			Pal	ς		
4	SH1 290-300	a 20	75	70	×	25			个个			
5	SH1 300-310	3 20	80	160	×	10						- '
6	SH1 310-320	9 20	80	1,50	×	15						_
0	SH1 320-330	3 20	85	70	×	15			1			_
8	SH1 330-340	3 30	110	75	×	×			j			_
9	SH1 340-350	55	65	95	×	15						_
10	SH1 350-360	50	35	80	×	10						
11)	SH1 360-376	3 25	20	85	×	15			1			:
12	SH1 370-380	25	25	140	×	20		····	Ps	た		_
13	SH2 0-5	ଡେ	110	65	ж	20			2 Ar		POLOKIT	= .
14	SH2 5-10	60	155	50	×	30			.1			- .
15	SH2 10-15	60	130	45	×	15						-
16	SH2 15-20	120	90	40	х	25						··
	SH2 20-25	90	60	65	×	25		the server		<i>:</i>		-
18	SH2 25-30	65	85	530	ж	25			ZAr	70	DOLEKI	- 72
19	SH2 30-35	15	75	190	×	10			_	水宁		- No.
20	SH2 35-40	30	165	90	×	25			1			_
21	SH2 40-45	40	150	130	×	10		`	У	,		_
22	SH2 45-50	40	160	150	ж	15			Pa	k.;		
23	SH2 50-55	20	135	60	×	×			Pst			- :
24	SH2 55-60	25	110			20			Pak			_
25	SH2 60-65	40	95		·	15		•	Pol			_

Results in ppm unless otherwise specified

T = element present; but concentration too low to me

X = element concentration is below detection limit.

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ANALYTICAL DATA

REPORT DATE ... CLIENT DROER No. SAMPLE PREFIX REPORT NUMBER OF NORTH TO SOUTH. 999.0 14 1020 3.11.84 **NG47** 6 As TUBE SAMPLE Zn Au Pb Cu No. 25 50 SH3 0-5 145 65 × Pske 2 SH3 5-10 165 20 60 210 Pske × 325 55 0.005 235 SH3 10-15 180 ZAMU DOUDLITE SH3 15-20 130 620 70 155 0.005 SH3 20-25 220 810 15 220 × SH3 25-30 485 335 45 0.005 60 SH3 30-35 95 25 55 130 × ZAMU DOLERII Pskp 95 25 65 105 SH3 35-40 × 75 SH3 40-45 25 100 0.010 110 10 75 25 170 85 SH3 45-50 × 11 90 25 220 SH3. 50-55 115 × 12 SH3 55~60 350 25 190 75 × 13 298 400 SH3 60-65 155 20 × 14 SH3 65-70 170 15 240 135 15 80 15 100 90 SH3 70-75 × 90 SH3 75-80 100 20 110 × 160 90 SH3 80-85 210 20 × 18 SH3 85-90 255 15 190 125 × 19 15 350 225 175 SH3 90-95 × 20 20 140 175 SH3 95-10¢ 180 × 21 Pskp 0.005 405 SH3 100-1**0**5 125 25 130 22 Psks Askp -105 30 50 0.005 105 SH3 105-110 23 Ps Ks 55 SH3 110-115 65 30 0.025 40 24 Psk<u>s</u> 75 30 35 SH3 115-120 175 0.010 Ps ks 25 35 0.110 160 1.10 SH3 120-1⊉5

Results in ppm unless otherwise specified

= element present; but concentration too low to m

= element concentration is below detection limit

= element not determined

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ANALABS

ANALYTICAL DATA

REPORT NUMBER SAMPLE PREFIX CLIENT ORDER No. PAGE NORTH TO วังงาหั 999.0 14 1020 OF 3.11.84 **NG47** 6 TUBE SAMPLE Cu Zn As Au No. Pb SH3 125-130 25 40 25 45 PsKs × SH3 130-135 25 35 110 0.005 20 Ps Km 3 SH3 135-140 20 125 60 25 × SH3 140-145 20 220 25 0.020 35 SH3 145-1**5**0 25 225 15 20 >< SH3 150-1\$5 35 130 20 × 20 SH3 155-1**40** 30 95 25 × 10 SH3 160-1**45** 45 70 45 × 35 9 SH3 165-1∤0 35 95 40 0.005 20 10 SH3 170-175 45 115 65 0.005 Ps Km 25 11 SH4 0-5 480 15 30 Pske × 115 SH4 5-10 160 160 55 0.135 55 13 SH4 10-15 65 240 35 Pske × 25 14 SH4 15-20 Pske +ZAMU 150 140 70 35 × 15 SH4 20-25 150 110 100 60 × ZAMU DOUTITE 16 SH4 25-30 90 100 30 × 75 SH4 30-35 130 120 35 120 >: ZAMU DOLERITO SH4 35-40 375 110 30 130 >< ZAMU+Pskp 19 SH4 40-45 295 15 60 >: 130 SKP 20 SH4 45-50 165 15 110 100 >< 21 SH4 50-55 190 15 170 × 120 SH4 55-60 315 15 170 × 115 23 SH4 60-65 280 20 Pskp 110 75 × 24 SH4 65-70 115 20 80 × 165 Psks 25 SH4 70-75 Psks 100 130 50 25

Results in ppm unless otherwise specified

X = element concentration is below detection limit = element not determined

AUTHORISED

⁼ element present; but concentration too low to measure = element concentration is below detection limit

ANALABS

ANALYTICAL DATA

SAMPLE PREFIX REPORT DATE CLIENT ORDER No. NIXTH 999.0 14 1020 TO SOUTH. 3.11.84 **NG47** OF 5 6 JUBE SAMPLE Pb Cu Zn Rs Au SH4 75-80 35 215 50 × 35 PSKS SH4 80-85 20 105 70 20 × SH4 85-90 25 185 30 25 Psks × SH4 90-95 25 180 Pskm 55 × 20 SH4 95-10¢ 10 100 55 × 25 SH4 100-105. 20 65 30 15 × SH4 105-110 25 80 20 × 10 8 SH4 110-115 30 100 130 10 × 9 Pskm SH4 115-1⊉0 640 85 35 40 >: 10 SH4 120-1⊉6 265 80 30 0.050 100 ZAMU DOLERIT 11 SH5 0-5 135 65 40 0.005 45 ZAMU DOURIR SH5 5-10 25 60 35 × 10 13 SH5 10-15 45 135 35 20 × 14 SH5 15-20 20 160 100 × 10 ZAMU DOLEKITE SH5 20-25 10 85 140 Pskf 25 × 16 SH5 25-30 20 110 200 10 Pskf × SH5 30-35 20 85 180 skf 15 × SH5 35-40 40 90 100 × 15 Psk 19 SH5 40-45 25 100 70 25 × 20 SH5 45-50 40 Psk 110 55 25 × 21 SH5 50-57 50 85 50 × 10 Ps K SH6 2-10 130 10 20 45 Psa × 23 SH6 10-15 Pske 120 10 15 × 30 SH6 15-20 130 10 15 55 ×

20

55

80

SH6 20-25

Ps Ke

Results in ppm unless otherwise specified

T = element present; but concentration too low to measure
X = element concentration is below detection limit
= element not determined

ANALABS

ANALYTICAL DATA

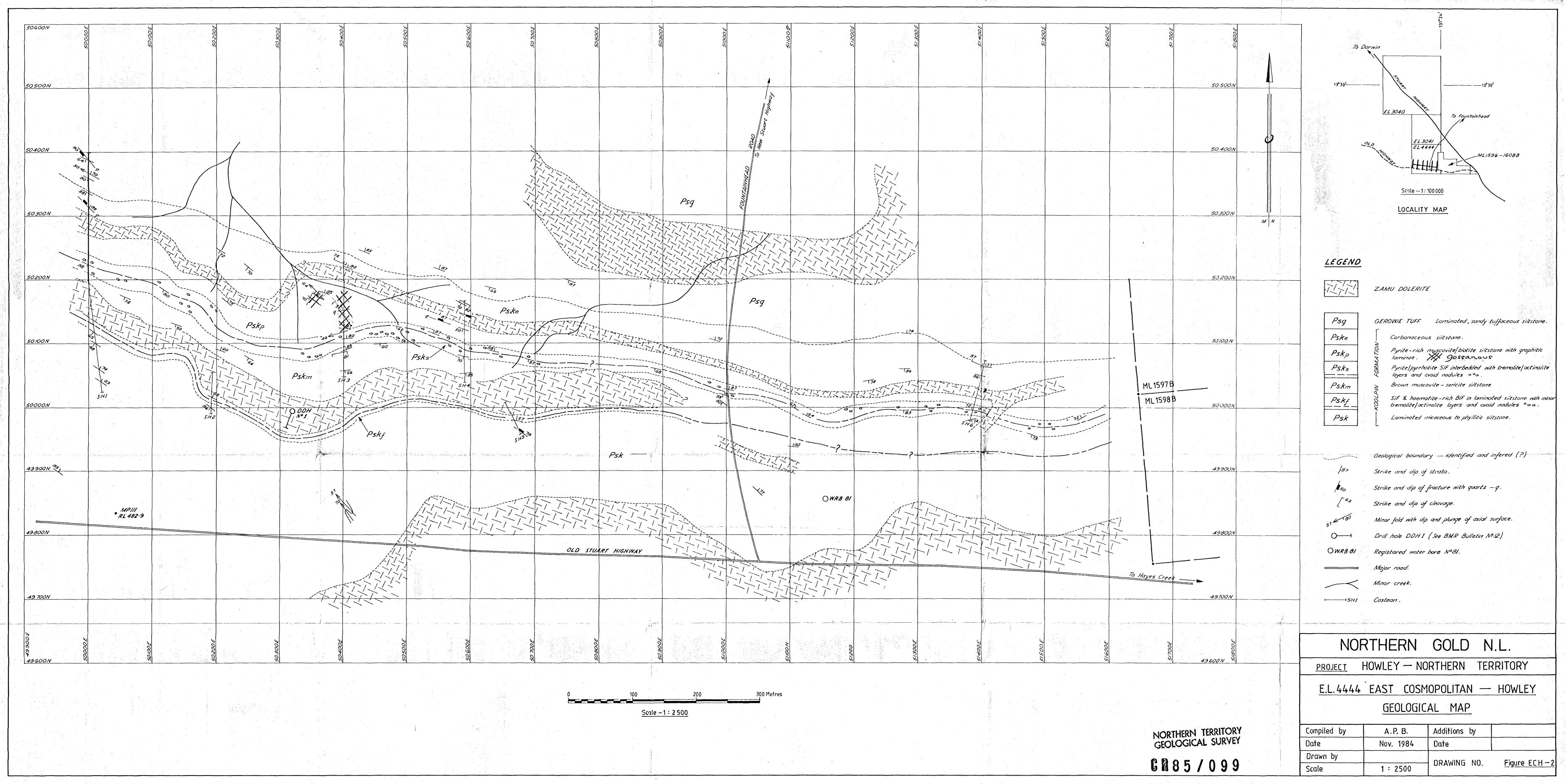
<u> </u>	SAMPLE PRE	FIX		REPORT NUM	ASER	REPORT D	ATE SE CLIE	NT ORDER N		PAGE
	NORTH TO SE	DUTH	999.	0 14 10	320	3.11.84	1 NG47	•	6	OF 6
TUBE No.	SAMPLE No.	Cu		Zn	As -	Au	Pb			
1	SH6 25-30	90		5 .	30	×	60		Pske	
2	SH6 30-35	85		5	15	×	60		1	
3	SH6 35-40	135	5	10	50	×	1.00		V	
4	SH6 40-45	375	5	105	240	0.040	85		Pske	
5	SH6 45-50	205	5	90	340	×	125			Dadin
6	SH6 50-55	265	5	60	110	×	165		\$	
	SH6 55-60	320	3	145	110	×	65		ZAMU	DOLERITO
8	SH6 60-65	1,60	1	15	60	×	170		Pskp	. :
9	SH6 65-70	336	3	15	190	×.	260	·	Pskp	
10	SH6 70-75	160	3	10	220	0.250	190		Pskp-	Ps ks
11	SH6 75-80	150	3	40	40	×	40		Psks	
12	SH6 80-85	150	1	30	20	×	25		Psks.	·
13	SH6 85-90	116	1	85	20	0.020	30		Psks-	- Pskm
14	SH6 90-97	55		45	55	×	25		Pskm	
15	.:									
16										·
18			,							
19										او
20										
21										
22										
23	DETECTION	5		5	2	0.005	5			 .
24	DIGESTION			<u>.</u>			·			
25	METHOD	101		101	401	305	101			

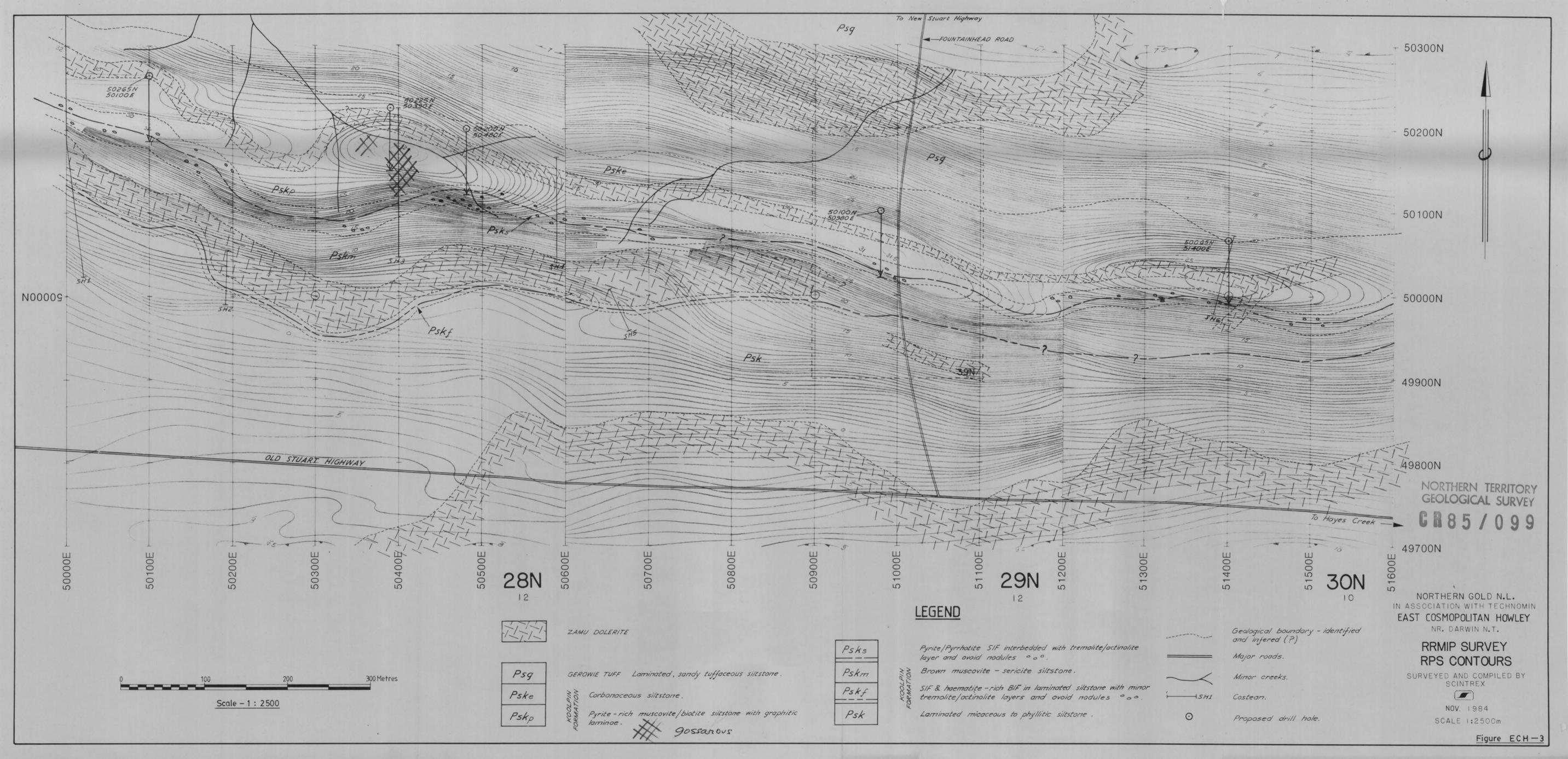
Results in ppm unless otherwise specified

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X = element concentration is below detection limit.

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SECTION TWO

PROGRESS REPORT ON EXPLORATION ACTIVITIES EL's 3040, 3041, 3055, 4235 and 4455,
SOUTH HOWLEY AREA, NORTHERN TERRITORY
DECEMBER 1984

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- 1. INTRODUCTION
- 2. WORK DONE AND RESULTS
 - 2·1 EL's 3040 3055
 - 2.2 EL's 3041 4235 4455

FIGURES

- 1. EL 3040 and 3055 Alluvial Testing Programme
- 2. EL 3040 and 3055 Alluvial Testing Programme Sample Site Locations

TABLES

1. South Howley Alluvial Testing Programme 1983. Assay Values $\geqslant 0.1 g/t$ Au

APPENDIX

- 1. Assay Results Alluvial Sampling Programme South Howley 1983
- Assay Results Alluvial Sampling Programme South Howley 1984

1. INTRODUCTION

The majority of gold bearing alluvials occur east of the Howley Line and between the Fleur de Lyes uranium/gold prospect and the Metropolitan Howley mine. Two - channels defined by shallow Chinese diggings run in a north-east direction from the anticline axis zone and can be traced for at least 2 kilometres. Near numerous eluvial and alluvial diggings occur most of which covered by the BHP-Homestake leases. Northern Gold N.L. has conducted two alluvial testing programmes in the South Howley area, the first in December 1983 covering the alluvials in EL's 3040 and 3055. The second programme concentrated mainly on the palaeo-channel systems within El 4226 with minor testing in EL 3055. The relevant results from both programmes are summarised in the following pages.

In areas away from the alluvials only general reconnaissance and prospecting was carried out but further work is planned in the 1985 season.

2. WORK DONE AND RESULTS

2·1 EL's 3040 - 3055

During the 1983 programme 85 slots and 7 trenches were dug on gridded lines across the alluvials using a Komatsu Hydraulic Excavator (Fig. 1&2). A vertical channel sample was collected from each horizon with sample width generally 1 metre or less. The average sample weight was 10 kgs and each sample was panned and the concentrate sent for gold analysis using the AAS technique. A total of 371 samples were sent to Fox Laboratories for analysis (Appendix 1)

All assay values greater than $0 \cdot \lg/t$ Au are shown on Table 1.

TABLE 1 SOUTH HOWLEY ALLUVIAL TESTING PROGRAMME 1983
ASSAY VALUES > 0.1g/t Au*

SLOT NO.	DEPTH	LOG	Au g/t Au
S2	0-1.0		0.105 *
	1.0-1.5		0.098
	1.5-2.0		0.086
	2.0-2.3	•	0.193 *
S5	0-0.6		0.010
	0.6-1.0		0.215 *
	1.0-1.5		0.004
S6	0-0.6		0.078
	0.6-1.2		BLD
	1.2-2.0	•	0.020
	2.0-2.2		0.337 *
			• .
S8	0-1.0		0.542 *
•	1.0-2.1		0.215
	2.1 - 2.3		0.070
S12	0-1.1		0.02
,	1.1-2.0		0.01
	2.0-3.0		0.01
	3.0-3.3		0.152 *
S14	0-0.3		0.132 *
	0.3-1.0		0.036
	1.0-2.1		0.064
	2.1-2.3		0.665 *
٠			
S25	0-0.5		0.112 *
	0.5-1.5	•	0.009
	1.5-2.2		0.120 *
S26	0-1.0		0.006
	1.0-1.8	•	0.240 *

TABLE 1 (Continued)

		•	• .
SLOT NO.	DEPTH	LOG	Au g/t Au
S30	0-0.6		0.452 *
	0.6-1.1		0.012
	1.1-2.1		0.058
٠	•		
S31	0-0.6		0.155 *
	0.6-1.3	•	0.175 *
*	1.3-1.9		0.030
	1.9-2.6		0.013
•			
S48	0-0.8		0.002
	0.8-2.2		0.158
S49	0-0.6		0.005
	0.6-1.2		0.012
•	1.2-1.7		0.111 *
	1.7-2.3		BLD
S72	0-0.8		0.004
	0.8-2.0		0.048
	2.0-2.9		0.500 *
			•
S75	0-1.4		BLD
	1.4-2.0		0.15 *
	2.0-3.0		0.008
	3.0-4.0		BLD
COSTEANS		,	
C1/20S	0-1.0		0.045
,	1.0-2.0	•	0.108 *
			3.100
C1/30s	0-1.0		0.031
	1.0-1.8		0.155 *
	•		
C2/40N	0-1.2		0.023
·	1.2-2.6	•	2.131 *

TABLE 1 (Continued)

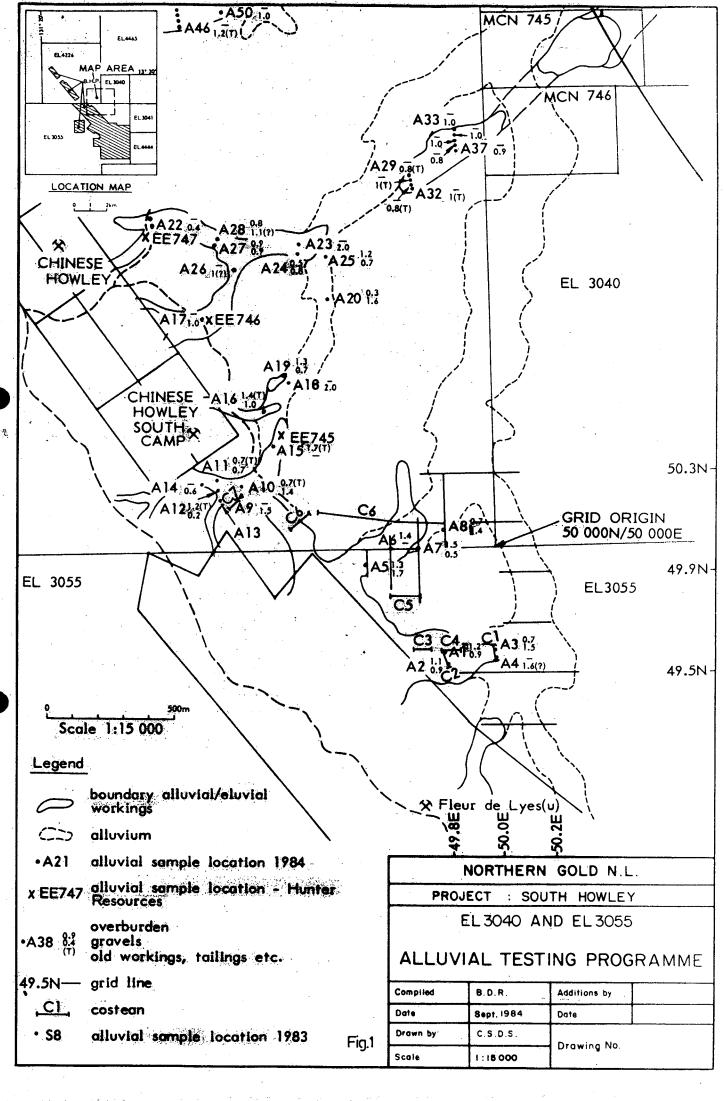
COSTEANS	DEPTH	LOG	Au g/t Au
C2/33N(A)	0-1.0		0.17
	1.0-1.8		0.01
	1.8-2.9		BLD
C2/20N	0-1.0		0.18
,	1.0-2.0		
	1.0 2.0		0.10
C2/10N	0-1.0		BLD
	1.0-2.0		0.74 *
C2/3N	0-1.0		DID
027 311	1.0-2.0		BLD
	2.0-3.0		0.01 0.10 *
	3.0-4.0		0.10 * 0.02
	3.0 1.0		0.02
C3/66E	0.8-1.5		0.01
	1.5-2.7		0.15 *
	•		
C4/22E	0-1.2		0.04
	1.2-2.0		0.04
	2.0-3.2		0.27 *
C6/12W	0-0.5		0.03
	0.5-1.8	·	0.10 *
C6/51W	0-1.1		0.50 *
	1.1-1.8	•	0.06
	1.8-2.3		0.11 *
06 /557	0 1 0		
C6/55W	0-1.0		1.04 *
	1.0-2.4		BLD

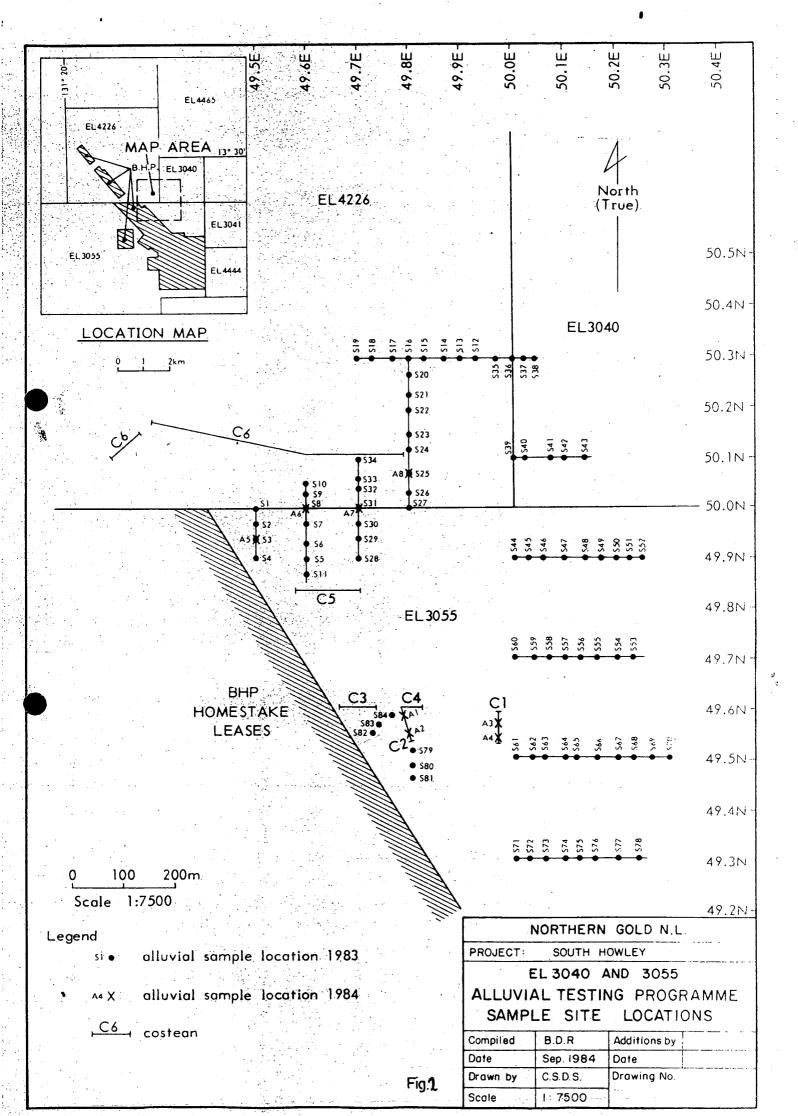
During the second alluvial testing programme, September 1985, Seven slots were excavated in EL 3055 to confirm some of the anomalous results returned from the 1983 programme (Fig. 1). Samples were collected as before but the average weight of each sample was increased to 18 kgs. The concentrates were sent to SGS Laboratories and the results are presented in Appendix 2.

2.2 EL's 3041 - 4235 - 4455

Exploration Licences 4235 and 4455 straddle part of an anticlinal axis parallel and to the west of the Howley Line. This area is prospective for a similar style of mineralisation to that of the Chinese and Metro Howley mines. To date Northern Gold N.L. has carried out only general reconnaissance and prospecting over this area but in the 1985 season an exploration programme is planned to cover this prospective anticlinal axis zone. These tenements are also prospective for tin associated with pegmatites emenating from the Mount Shoobridge area.

Exploration Licence 3041 occurs to the east of the Howley line and contains folded and faulted units of the Gerowie Tuff and Mount Bonnie Formations. The area is prospective for gold mineralisation associated with minor anticlinal structures expeciallywhen the structures contain sulphide rich iron formations. Limited prospecting and photo geological studies have been carried out over the area but further work is planned for the 1985 season.





APPENDIX 1

ASSAY RESULTS ALLUVIAL TESTING PROGRAMME
SOUTH HOWLEY 1983

POSTAL ADDRESS: PO BOX 5.9% ARTARMON 2064 Telephone 439 5099



INVISION OF PLACER EXPLORATION LIMITED. (incorporated in A.C.T.)

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. [0	CLIENT ALT: Northern		9 <i>e.</i>				o: N. W. 50 Barl ARO SPRI	ker Rd,	NT	REF	PORT	ГОБ	ANA	LYS	IS	in accorda	ice with its te	om have been erms of registi eproduced ex	ration. This
	GPO Box 5	5326,	•		þ	MATER		ex de se	BORTED	SAMPLE	ADVICE N		SAI	MOLE TYPE		SAN	IPLE BREPA	BATION	nhabetaet.
	SYDNEY.	NSW.	2001		wtsa	6.2.84		9.2.84		14901,	02	Cor	ic.		S	P22			
	SAMPLE	No.	Walala	Au	13.10	V See		124	Width and	0.5				Water Land		New York	ment with		23,243,645
	S1 0-1.2m		4.506	7.01															
K	1.2-1.5	Sanda ara	6.158	5.89		A MARIE		200	Liberal		i i i i i i i i i i i i i i i i i i i		DA CHEST	Abbinion	No. of Contract of		under Line extend		. Plant is in the
.] !	S2 0-1.0		5.923	89.27	5	0.105	an of the analysis of the second at	Maria Erick							, te		1		
1	1.0-1.5	5	5,074	96.82	L.B.	OXTEN								1.00		And Sand	· Service with	delinitaria.	C. Sept. Tracks
	1.5-2.0	2	6.574	78.34	Ь	0.086	Maria Maria Carro M	d age	•										
	2.0-2.3	Links	8.808	87.12	A	0.13			ate cold	an stable				i Marie		100	i distribution di		- Andrews Law
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Ž.	المالية المالية		82060	20.73	1.00	1			ANTER A				Lo	4.20252				-	
	1.6-2.0		5,980	13.46	Marine Land and	A Salar Sala	2.307.42		A Day See						#				
•	2.0-2.8		4.997	.05856						delicing.		\$4.0×	45	4	A 124	in Krossica a	C COLOR CONTROL	Section .	and the section of
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Northern Gold SYDNEY. NSW. 2001			REPORT	OF ANA	ALYSIS	The test(s) reported here in accordance with its ter document shall not be re	ms of registration. This
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MORTHERN GOLD			REPORT	OF ANALYSIS	in accordance with its terms of registration. The document shall not be reproduced except in tall
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1.9 - 2.4	10.154	15.66											. "				
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50₩	6.173			- was distributed	A. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			400		ALC:				4.5		7.33	
60W	4.435	0.14			Co. Full III	TAKE NATOS	A PARAGO		i salatan ka	that is a second	ALICA CONTRA	San as as as		i de la companie de l	a diselective	inti de la company	
70W	6.136	·															
80W	5.541	2.10	hida saisk	feir Die			es lucalité	Barrie de	Salar Valorio	a. sell 및 1 *	and the second	074500000000	Control of the Contro	0.00240004	i. Singkan Ale	oministration to	
	12:108	10.31 0.04									discher Selection					And the second	
LIMIT OF DETECTION		PM1															
ANALYTHICAL METHOD	<u> </u>	PMI		<u> </u>	<u> </u>	<u> </u>	L										·

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NORTHERN GOLD								REF	PORT	ΓOF	ANA	LYS	IS	in accorda document	nce with its to shall not be r	erms of regist eproduced ex	ration. This copt in full.
/28				SOLATE HE	CEIVED	DATE RE	PORTED	SAMPLE	ADVICEN	Line of the	للند فوقائق	SEA TOTAL				HATION	
				6.2.84		13.	2.84	14901,	02	Co	onc.			RE 757			
SAMPLE No.	Wt(g)	AU .				P. C. T. Ell								AND A STATE			
C5 100W	4.000	4.94															
1100	3.844	1.82		INTERNATION	ALOUS PARTY OF		4.00	F (8)						1977	X 27%		
120W	3.926	3.02															
C6/12W 0.0 - 0.05	9.124	35.69		0.03	The seal								77275		31.57(0)		
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C6/20W 0.0 2 0.9	7.682	5.82	1						Part H	4		S-1:00					
C6/20W 0.9 - 1.5	4.153	41.48	1														
C6/20W 1.5 - 2.1	7.603	13.05					10000				Wit 3.12					A CONTRACT	
C6/30W 0.0 - 1.2	4.775	35.08															
1.2 - 2.2	4.364	3.15									Market C	4				194	
C6/40W 0.0 - 0.9	9.023	28.73									1						
0.9 = 2.2	6.652	2.67	1														
C6/51W 0.0 - 1.1	12.429			0.50												*************	
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C6 61W	8.434	8.83															
65W	7.211	2.04					L St. Committee of the										
70W	4.347	18.1			4.86					V.6.2(7/5		N. State Line					
LIMIT OF DETECTION		0.04															
ANALYTHICAL METHOD		PM1															

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NORTHERN GOLI	9		4					RE	POR	T OF	ANA	ALYS	SIS	in accorda	nce with its t	terms of regis	en performed stration, This except in full.
/29				A DATE H	CEIVED	DATER	PORTED	E SAME								ARATORS!	
				6.2.8	4	13.2.8	4	1490	1/02	C	onc.	,		RE 757			
SAMPLE No	wt[g]	AU.				W.					Lation			# 4 W. E.			
C6 75W	9.256	3.76		İ													
800	8.442	65.0	No.			0.000		* \$400 Mars			i she w						
8 5W	4.499																
900	19.877	5.75									Land de la Company				Vision in		
95W	12.217	1.00									į						
100W	7.688	1.87													1000	New St	
105W	11.284	29.41	<u> </u>														
110W	4.298	0.44															
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C7 5W 10 W	4.561	6.28							800 A	Maria de la compansión	A . 6 . 10 . 11 . 11 . 11 . 11 . 11 . 11		144.02				
1 5W	13.499	23.10					640. Y 1. 42	2 2 4111	102.004	,							
2 OW	3.929	128.46	14									2. 4. 4.					
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P.P.M. UNLESS OTHERWIS	E STATED			SIGNATO	** / ·	110.								NR No	. F. O	789	

APPENDIX 2

ASSAY RESULTS ALLUVIAL SAMPLING PROGRAMME
SOUTH HOWLEY 1984



SGS Australia Pty. Ltd.

NEW SOUTH WALES
74 McEvoy St., Alexandria, Sydney, N.S.W., 2015
Telephone 699 7625 Telex: SGSSYD AA22366

Suite 1602 National Mutual Centre SYDNEY - N.S.W. 2000 WESTERN AUSTRALIA 80 Reliway Parade, Queens Park Telephone 458 1421 Talex: SGSPTH AA92624 Attention: Mr Reg Hardy

LA 3613

Date completed... SYDNEY

NORTHERN GOLD N.L.

February 4, 1985

ANALYSIS OF SAMPLES SUPPLIED

	Sample Ref.	Dry Hk				ample Ref	ina na sasar		Dry Wt	Au mg	
1											
2	A1 1.2-2.2	9.876	1,35	735	0-05	A10	0 - 1	2	5.348	4.20	26 0.1
3	A2 0 - 1.1	5.406	0.216	: \o	0.02		1.2 -	2.2	4.874	1.38	25 O.C
4	H - 2	8.080	0.775	177	006	A11	0 - 0	7	5.228	1.13	r) 0.0
5	A3 0 - 0.7	8.304	中国的复数电影的	14	0.09		0.7 -	1.6	6.915	7.30	170.
6	0.7 - 1.5	4.642	0.172	25	0.01			*			
7	1.5 - 2.6	2.583	0.358	22	0.02/						
	A4 0 - 0.6	3.732	0.323	13	002					·	
9	0.6 - 1.6	4.265	0.408	15	0.03	Hg	Amalgan	nation		· ··	
0	A5 0 - 1.3	4.053	0.708	8	0.09				:		
11	1.3 - 2.1	3.468	0.772	20	0.04					: : :	
12	A6 0 - 1.4	5,977	43,8	28	1.55						
13	A7 0.2 - 1.5	7:164	0.064	12	Ø. 005)					
14.	1.5 - 2M	5.700	1.64	26	0.06		Y King at L			<u> </u>	
15	A8 0 - 0.7	4,250	0.33	1 15	Ø.02		REC	EIVE	· D]		
16	0.7 - 1.3	4.271	0.650	74	0703	1					. /
 17	1.3 - 2.1	4.584	1.38	20	70.0		1 11/4	R 198			
18	A9 0 - 1.1	2.430	4.94	20	0.25	An	s d	********	,		
19	1.1 - 1.9	5.572	1.24	14	0.0						:/
20	* A5 2.1 - 3.5	6 74	1.43	18	0.0	3					