782001

PASMINCO EXPLORATION

YOLANDE EL 11/85
JOINT VENTURE

ANNUAL & FINAL REPORT
AUGUST 1985 - AUGUST 1995

Volume 1 of 2

AUTHOR: PM Quayle

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- Melbourne

Australian Resources - Perth
- Sydney

North Limited - Melbourne

SUBMITTED BY:

ACCEPTED BY:

BURNIE
September
1995

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HENTY CANAL YNC15

LOW IMPACT
DIAMOND DRILLING

HENTY VALLEY
YHV2

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SUMMARY

Exploration conducted on the Yolande EL 11/85 Joint Venture during the period from July 1994 to July 1995 has principally consisted of diamond drilling targets defined during the previous year.

The Newton Creek principal target horizon has been further diamond drill tested north of the spillway and magnetic depletion zones coincident with this horizon have been drilled to the south of the spillway.

The Henty Canal Pyrite Zone has been tested by two short diamond drill holes without success, and the Lower Tyndall Group contact has been tested in the Henty Canal vicinity.

Altered pumice breccias have been sampled in the White Spur area.

Diamond drilling of a massive pyrite occurrence with anomalous IP response in the Henty Valley produced disappointing results downgrading the prospectivity of the area.

Total exploration costs for the period ending July 1995 was $401 067.

Work conducted prior to July 1994 included: aeromagnetic – radiometric coverage over the entire licence area; UTEM surveys in the Lynchford, Henty Valley and Newton Creek areas; IP surveys in the Henty Canal and Henty Valley areas; detailed geological mapping and grid based soil and wacker sampling and detailed lithogeochemical studies in the Newton Creek and White Spur areas; diamond drilling and DHEM.

Total exploration expenditure on Yolande EL 11/85 JV since its inception on 12 August 1985 is $1 978 012.

An application to extend the duration of the licence was unsuccessful.

1 INTRODUCTION

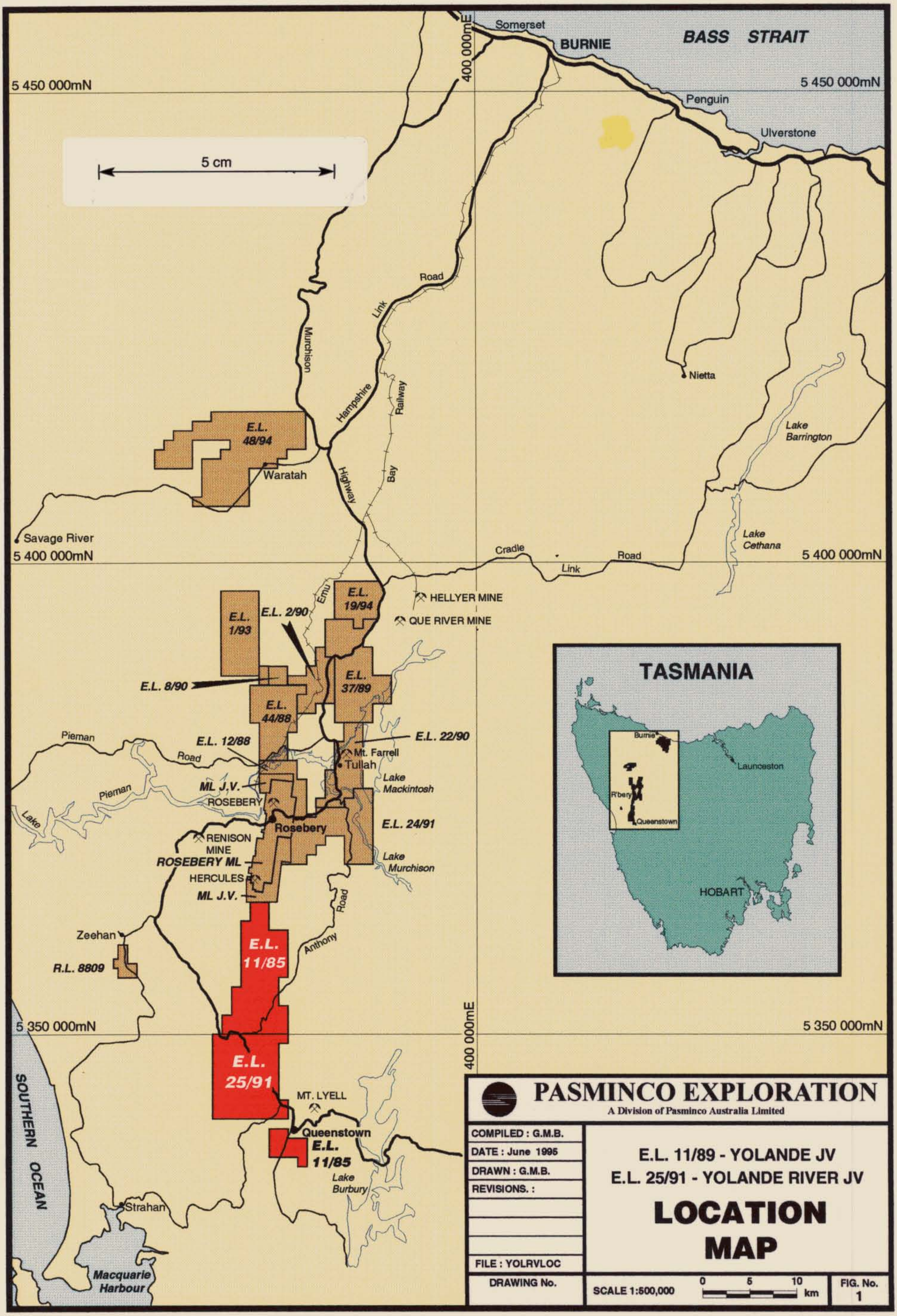
EL 11/85 cover areas of 74 within two blocks, Lynchford south of Queenstown, and northwards from the junction of The Zeehan Highway and the Anthony Road to the southern boundary of the Consolidated Rosebery Mine Leases (see Fig.1) covering the western part of the Mount Read Volcanic belt.

This report details exploration undertaken by Pasminco Exploration for the period to July 1995, and summarises work completed since the inception of the licence in 1985.

Work conducted during this period focussed on diamond drilling targets previously identified, at Newton Creek/Henty Canal and Henty Valley.

Access to the Yolande Licence is by the Zeehan Highway and the Anthony Road in the south and east and a network of all weather HEC roads and 4WD old logging tracks in the west and north. The least accessible area is the Henty River Valley where steep and rugged topography is covered by temperate rain forest. Higher ground to the north is more open with sparse sub-alpine vegetation.

Apart from access restrictions in steep and forested areas, other exploration difficulties include extensive coverage of bedrock by glacial moraine and skeletal and transported soils overlying felsic volcanics in much of the remaining areas. These factors restrict the use of soil and stream geochemistry.


BASS STRAIT
Somerset
BURNIE
Penguin
Ulverstone
5 450 000mN
400 000mE
5 cm
Road
Link
Murchison
Hampshire
Railway
Nietta
Lake Barrington
E.L. 48/94
Waratah
Highway
Bay
Savage River
5 400 000mN
Cradle
Link
Road
Lake Cethana
Emu
E.L. 19/94
HELLYER MINE
QUE RIVER MINE
E.L. 1/93
E.L. 2/90
E.L. 8/90
E.L. 37/89
E.L. 44/88
TASMANIA
Burnie
Launceston
R'bery
Queenstown
HOBART
Pieman
Road
E.L. 12/88
E.L. 22/90
Mt. Farrell
Tullah
Pieman
ML J.V.
ROSEBERY
Lake Mackintosh
Lake
Rosebery
E.L. 24/91
RENISON MINE
ROSEBERY ML
HERCULES
ML J.V.
Lake Murchison
Road
Zeehan
E.L. 11/85
Anthony
R.L. 8809
5 350 000mN
400 000mE
SOUTHERN OCEAN
E.L. 25/91
MT. LYELL
Queenstown
E.L. 11/85
Lake Burbury
Strahan
Macquarie Harbour
PASMINCO EXPLORATION
A Division of Pasminco Australia Limited
COMPILED : G.M.B.
DATE : June 1995
DRAWN : G.M.B.
REVISIONS. :
FILE : YOLRVLOC
DRAWING No.
E.L. 11/89 - YOLANDE JV
E.L. 25/91 - YOLANDE RIVER JV
LOCATION MAP
SCALE 1:500,000
0 5 10 km
FIG. No. 1

782008

2 TENURE

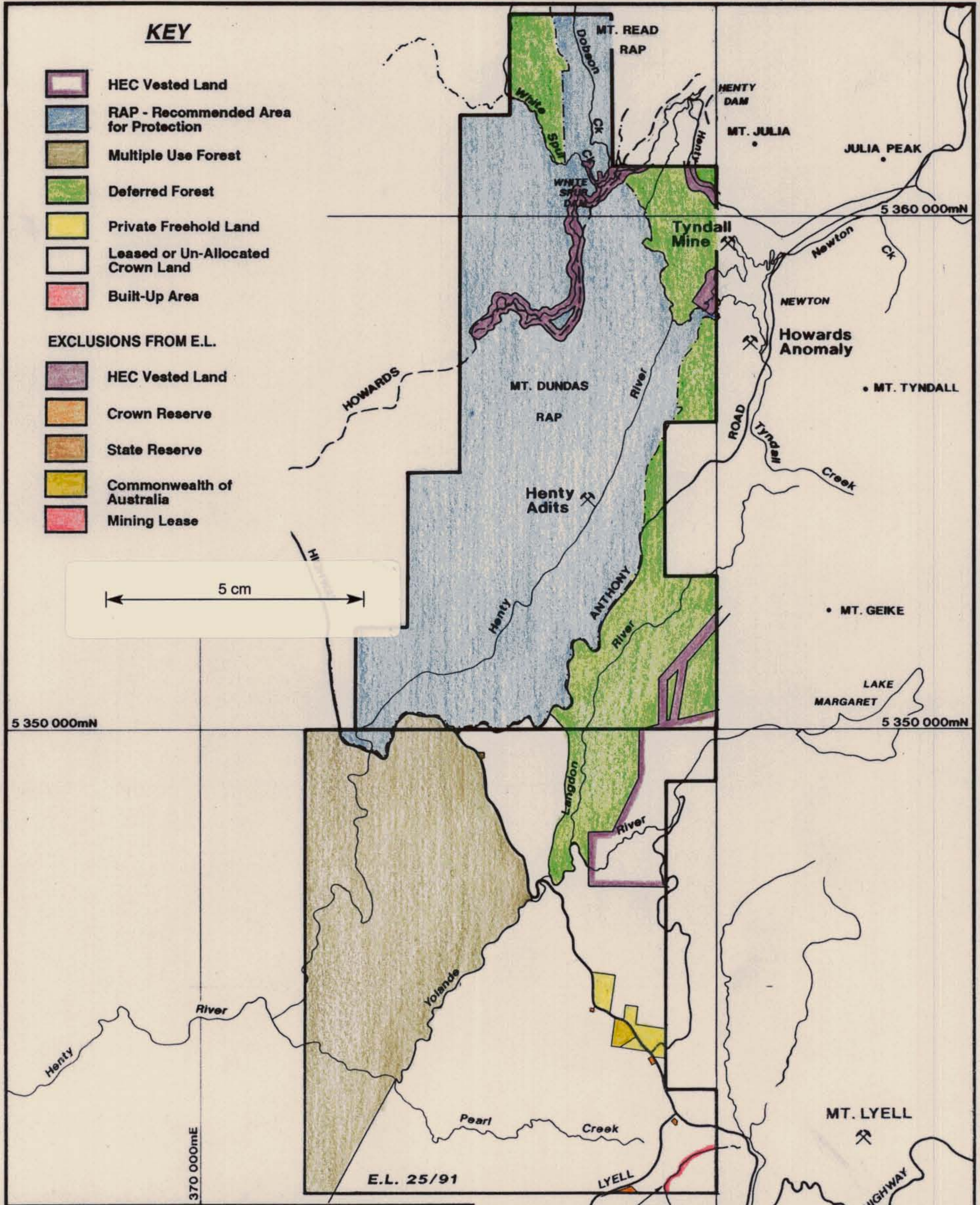
Exploration Licence 11/85, Yolande was granted to Amoco Minerals Australia on 21 August 1985 covering an area of 150km2. Since that time title has been transferred to Cyprus Minerals Australia Company (11 December 1985), then Cyprus Gold Australia Company (March 1988), then Hudspeth and Company Pty Limited (23 October 1990), and finally to Arimco Mining Pty Limited, the current title holder. Arimco have recently changed their corporate name to Australian Resources and Mining Company NL.

The area of the licence was amended to 151km2 on 22 May 1988. In compliance with Mines Department regulations the licence was reduced in area to 70km2 on 20 February 1991. The area of the tenement was amended again by the Department on 15 April 1992 by the addition of 4km2 to the western part of the Henty Block. The current area of EL 11/85 is 74km2.

During the period of tenure the licence has been the subject of two Joint Venture Agreements. The initial Agreement was between Cyprus and the Electrolytic Zinc Company of Australia. The EZ interest was subsequently transferred to Norgold Ltd, part of North Broken Hill–Peko Limited. A new Joint Venture Agreement was concluded on 4 December 1990 between Hudspeth, Norgold and Pasminco Australia Limited. Under the terms of this Agreement Pasminco Exploration, a division of Pasminco Australia, are operators and managers of the Joint Venture. Pasminco earned a 50% interest in the tenement on 31 December, 1991. All three parties contributed to exploration expenditure for the remainder of 1991–92 in the proportion: Pasminco (50%), Norgold (25%) and Arimco (25%).

Since that time Pasminco has been sole funding the exploration expenditure. The current equity of each partner, as at 30 June 1995 is: Pasminco (71.6%); North Limited (14.2%) and Australian Resources (14.2%).

782010



PASMINCO EXPLORATION

A Division of Pasminco Australia Limited

COMPILED: G.M.B.	YOLANDE JOINT VENTURE
DATE: July, 1992	E.L. 11/85 - YOLANDE
DRAWN:	E.L. 25/91 - YOLANDE RIVER
REF.:	
REVISIONS:	**LAND TENURE**
DRAWING No.	SCALE 1:100,000 (0 1 2 km) — FIG. No. 2

EL 11/85 is due to expire on 20 August 1995.

Notification that an application to extend the duration of the licence was rejected on 8 September 1995.

The land tenure of EL 11/85 comprises the following (Figure 3).

1. Multiple Use Forest Land
2. Deferred Forest Land
3. Recommended Areas for Protection (Mt Dundas & Mt Read)
4. SW Conversation Area
5. HEC Vested Land
6. Uncommitted Crown Land
7. Private Property
8. Queenstown Urban Conversation Area
9. Crown Reserves

3 EXPLORATION PHILOSOPHY

The Yolande project was generated by mineral potential evaluation studies on the Henty Fault system and elsewhere within the Mount Read base metal province of Western Tasmania.

The principal objective of the exploration programme on Yolande was to identify economically viable polymetalic base metal sulphides. Four major areas of interest include:

1 Proximal to the Henty Fault System which hosts significant mineralization to the north;
2 Within Central Volcanic Complex lithologies east of the South Henty Fault;
3 The southern strike extension of the Hercules mineralized position;
4 Within the relatively under explored Henty Fault Wedge.

4 REGIONAL GEOLOGY

The basement in Western Tasmania is a sequence of Proterozoic greenschist facies metasediments. Basement is exposed in the Sticht Range east of the Henty area, and to the west of Dundas.

During the Cambrian a crustal rift developed forming the Dundas Trough, which was the focus for the emplacement of the Mount Read Volcanics.

The Mount Read Volcanics form a belt extending 200km in length by 20km in width along the eastern side of the Dundas Trough. These mid to upper Cambrian volcanics, which are subdivided on the basis of geochemistry into three calc–alkaline suites and one tholeiitic suite include intermediate to felsic lavas, subvolcanic porphyries and granites (Crawford et. al., 1992).

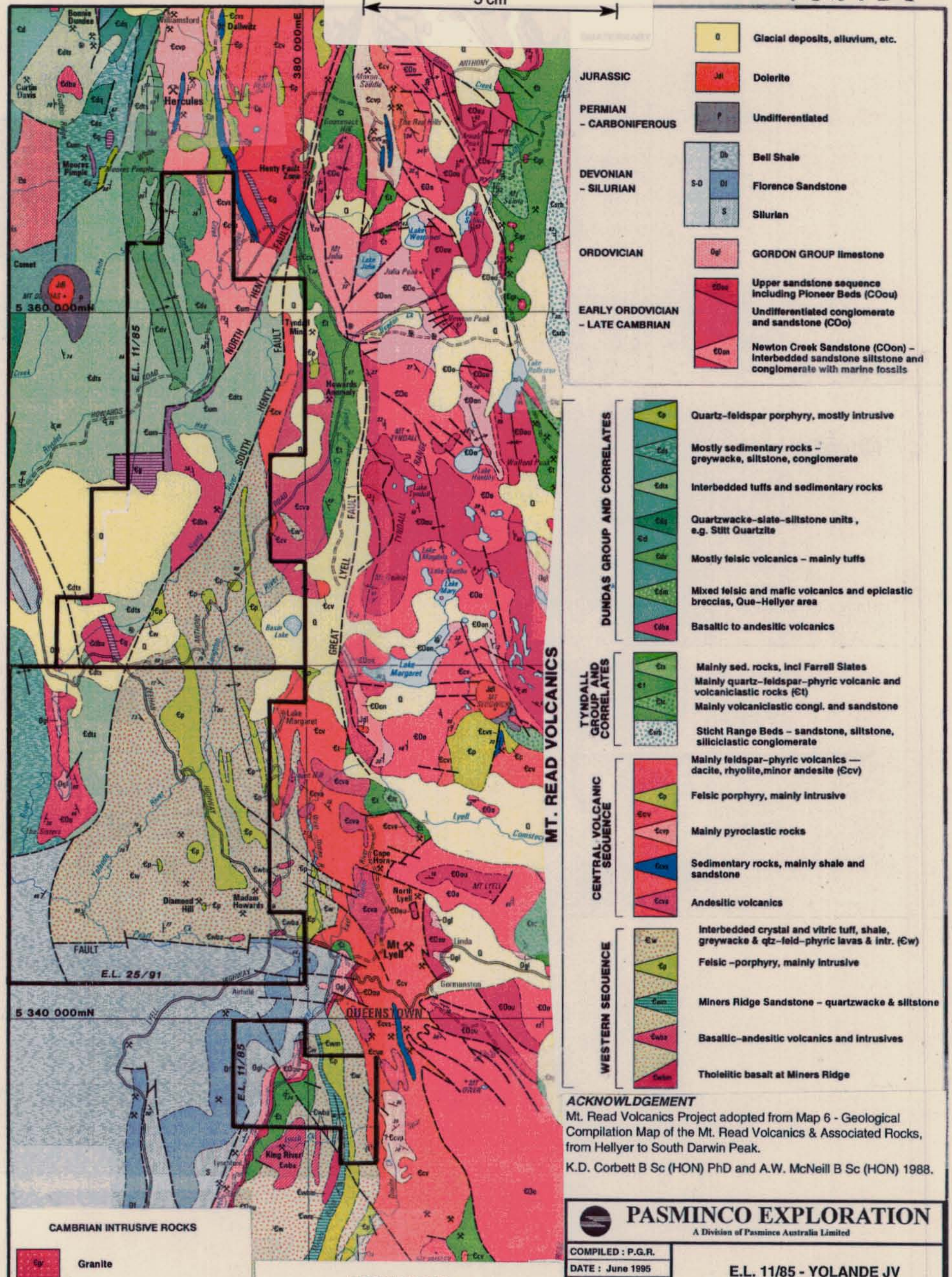
The Mount Read Volcanics are the host to several significant volcanogenic sulphide bodies including:

Rosebery
Hercules
Hellyer
Que River
Mt Lyell

Other significant ore deposits in Western Tasmania include:

Renison
Mt Bischoff
Henty
Oceana
Zeehan Field

7S2014



ACKNOWLEDGEMENT

Mt. Read Volcanics Project adopted from Map 6 - Geological Compilation Map of the Mt. Read Volcanics & Associated Rocks, from Hellyer to South Darwin Peak.

K.D. Corbett B Sc (HON) PhD and A.W. McNeill B Sc (HON) 1988.

PASMINCO EXPLORATION
A Division of Pasminco Australia Limited

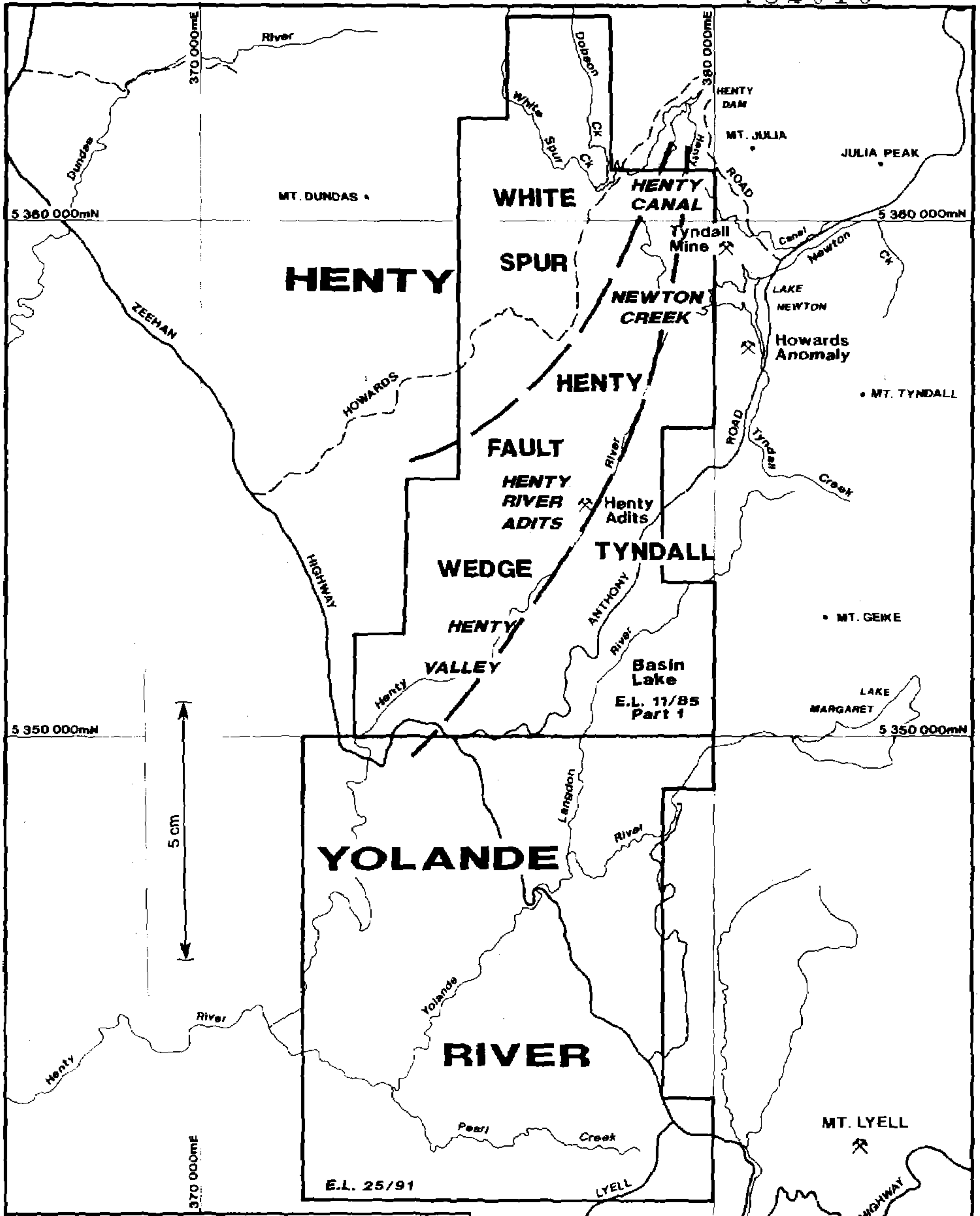
COMPILED : P.G.R.	E.L. 11/85 - YOLANDE JV
DATE : June 1995	E.L. 25/91 - YOLANDE RIVER JV
DRAWN :	**REGIONAL GEOLOGY**
REVISIONS	FROM MAP 6 OF THE MT. READ VOLCANICS PROJECT
FILE :	
DRAWING No.	SCALE 0 2 4 km — FIG. No. 3

There is evidence for at least one period of Cambrian deformation during which time regional structures such as the Henty and Rosebery Faults were active and appear to have influenced volcanism, sedimentation and mineralisation.

Sedimentation continued in the Dundas Trough after the cessation of volcanism in the late Cambrian. Initially these sediments were partly derived from the volcanics, but during the Ordovician, extensive sediments predominantly derived from Precambrian metamorphics were deposited. This period of sedimentation culminated in the wide spread deposition of a shelf limestone sequence.

The late Devonian Tabberabberan Orogeny in Western Tasmania resulted in the development of predominantly open NNW trending folds in the Ordovician–Devonian cover sequence. Underlying Cambrian structures were significantly modified by this event. Extensive granite emplacement occurred in the latter stages of the orogeny and were associated with structurally controlled and carbonate replacement tin–tungsten and gold mineralisation.

The Devonian was followed by erosion and glaciation. Younger Palaeozoic sediments were intruded by Jurassic dolerites and extensive uplift and erosion followed. Much of the prospective sequences north of Hellyer were later covered by the extrusion of Tertiary flood basalts.



PASMINCO EXPLORATION
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COMPILED : F.G.F.	YOLANDE JOINT VENTURE
DATE :	E.L. 11/85 - YOLANDE
DRAWN : G.M.B.	E.L. 25/91 - YOLANDE RIVER
REF. :	CURRENT WORK AREAS
REVISIONS :	
DRAWING No.	SCALE 1:100,000 0 1 2 km — FIG. No. 4

5 PREVIOUS EXPLORATION

Previous mineral exploration has been undertaken by Rio Tinto Australia Exploration, Cyprus Mines, Pickands Mather and the Mt Lyell Company. A comprehensive review of past exploration and prospecting has been compiled by Purvis (1983).

Early prospecting and exploration activity is summarised in Poltock and FitzGerald (1991).

6 WORK COMPLETED JULY 1985 - JUNE 1994

August 1985 - June 1986

Exploration during the first year of the Licence was done by EZ – Amoco and consisted of a relatively low key griding, stream sediment, panned concentrate, and rock chip sampling programme.

July 1986 - June 1987

During this period exploration was conducted by EZ –Amoco and consisted of grid based geological mapping, rock chip sampling and soil geochemistry in the Henty River area. A trial VLF ground magnetic survey was conducted over the Henty Fault Zone.

July 1987 - June 1988

During this period exploration was conducted by Cyprus and consisted of:

- Assessment of the alteration zones associated with the Henty Fault at Newton Creek;
- Stream sediment and reconnaissance geology at Lynchford;
- Rock chip sampling at the Macquarie Woody Hill workings;
- Review of Mt Lyell's IP and geochemical data on the east Tyndall grid;
- Rock chip sampling of the alteration zone exposed in Howard's Road;
- Assessment of the Henty Canal alteration zone.

July 1988 - June 1989

During this period exploration was conducted by Cyprus and consisted of stream and rock chip sampling at Woddey Hill and Sisters Hills.

July 1989 - June 1990

During this period exploration was conducted by Pasminco Mining and consisted of griding, geological mapping, wacker and rock chip sampling in the Henty River area and examination of Henty Adits core. Geological mapping, rock chip sampling and a dipole - dipole IP survey (5 line kms.) were conducted in the Newton Creek area.

An aeromagnetic - radiometric survey was flown over part of the licence.

July 1990 - June 1991

During this period exploration was conducted by Pasminco Exploration and consisted of the following:

Reconnaissance geology and rock geochemistry at Lynchford and Henty River;

Grid based geological mapping;

Rock sample, rock chip, stream sediment, soil and petrographic samples were collected;

Aeromagnetic - radiometric survey of Lynchford and White Spur;

UTEM survey at Lynchford.

July 1991 - June 1992

During this period exploration was conducted by Pasminco Exploration and consisted of the following:

Geological mapping at Henty Valley, Newton Creek and White Spur;

UTEM surveys at Newton Creek and Henty Valley;

Infill gravity survey in the Henty block;

Magnetic and gravity data interpretation of the Henty and Lynchford areas;

Soil and wacker sampling at Newton Creek, Henty Valley and Lynchford.

July 1992 - June 1993

During this period exploration was conducted by Pasminco Exploration and consisted of the following:

Geological mapping, soil and rock chip sampling at Newton Creek, Henty Valley and White Spur;

Diamond drilling 851m at Newton Creek and Henty Valley;

DHEM surveys;

July 1993 - June 1994

During this period exploration was conducted by Pasminco Exploration and consisted of the following:

Geological mapping at Newton Creek, Henty Valley and White Spur;

Diamond drilling: five DDH totalling 1715m at Newton Creek & White Spur;

Down-hole EM surveys;

Detailed lithogeochemical studies;

IP Survey at Henty Valley;

Ground Magnetic Survey at Newton Creek.

7 WORK COMPLETED JULY 1994 - AUGUST 1995

7.1 Summary

Geological Mapping

Geological mapping consisted of several traverses in the White Spur, south of Newton Creek spillway, Basin Lake and Lynchford areas.

Diamond Drilling

Eight diamond drill holes have been drilled during the year totalling 2505.3m. Of these, seven were drilled in the Newton Creek – Henty Canal area, and one in the Henty Valley area.

To date 19 DDH totalling 5072.4m have been drilled during the current programme. This includes 16 DDH totalling 4412.7m in the Newton Creek/Henty Canal area. Drilling statistics are summarised in Table 1 and drill logs are appended (Appendix 4).

Geochemistry

Geochemical analysis of either drill core or surface outcrop was done on 265 samples for ore suite, and 52 samples for the whole rock and trace element suite. Ten thin sections were produced and reported on by Crawford (Appendix 7).

The Yolande lithogeochemical set now contains 364 analyses including those acquired from the Department of Mineral Resources.

An orientation Mobile Metal Ion survey was conducted in the Newton Creek area (Figure 15, Appendix 10).

Table 1.

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DIAMOND DRILL STATISTICS 1992-1993

HOLE ID	EOH
YHV1	65.7
YNC1	61.2
YNC2	53.5
YNC3	35.0
YNC4	272.0
YNC5	364.5
TOTAL	**851.9**

DIAMOND DRILL STATISTICS 1993-1994

HOLE ID	EOH
YNC6	451.6
YNC7	289.6
YNC8	282.0
YNC9	262.0
YWS1	430.5
TOTAL	**1715.7**

DIAMOND DRILL STATISTICS 1994-1995

HOLE ID	EOH
YHV2	163.5
YNC10	529.7
YNC11	151.3
YNC12	577.0
YNC13	507.0
YNC14	162.0
YNC15	162.3
YNC16	252.8
TOTAL	**2505.3**

ajs:pmq:95026

RECENT DIAMOND DRILLING NEWTON CREEK

HOLE ID	EOH
YNC1	61.2
YNC2	53.5
YNC3	35.0
YNC4	272.0
YNC5	364.5
YNC6	451.6
YNC7	289.6
YNC8	282.0
YNC9	262.0
YNC10	529.7
YNC11	151.3
YNC12	577.0
YNC13	507.0
YNC14	162.0
YNC15	162.0
YNC 16	252.8
TOTAL	**4412.7**

RECENT DIAMOND DRILLING YOLANDE

HOLE ID	EOH
YHV1	65.7
YHV2	163.5
YWS1	430.5
YNC1	61.2
YNC2	53.5
YNC3	35.0
YNC4	272.0
YNC5	364.5
YNC6	451.6
YNC7	289.6
YNC8	282.0
YNC9	262.0
YNC10	529.7
YNC11	151.3
YNC12	577.0
YNC13	507.0
YNC14	162.0
YNC15	162.0
YNC16	252.8
TOTAL	**5072.4**

Geophysics

A review of magnetic and UTEM data at Newton Creek - Henty Canal was conducted by P Smith and G Dixon (Appendix 8).

DHEM has been conducted on YNC10 YNC14 and YNC16 (Appendix ~~10~~ 9).

Magnetic susceptibility and specific gravity data have been collected from all recent drilling. The values are appended to individual drill logs and are summarised in table 2.

7.2 Newton Creek

The Newton Creek area lies between the South Henty Fault and the Great Lyell Fault, which are major north–south trending structures. It is also close to the Newton Creek Disruption Zone an east–west trending structure that is a prominent magnetic and gravimetric feature. This east–west structure is reflected in both the geometry of geological units and topography.

Lithologies in the Newton Creek area indicate rapid deposition in an active and changing volcanic environment.

Analyses of volcanic facies, lithogeochemistry and magnetic data are integral to the interpretation of the area.

A stratigraphy and a marker association which is correlated with the source of the spillway massive sulphide clasts the Principal Target Horizon was developed during the previous year. Diamond drilling and continuing lithogeochemical studies have further confirmed this stratigraphy, however the geometry of units to the south of the spillway appears more complex and less predictable. The Newton Creek stratigraphy is summarised in figure 12, and interpretive geology of the Newton Creek area is shown in figure 13.

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SUMMARY OF NEWTON CREEK STRATIGRAPHY

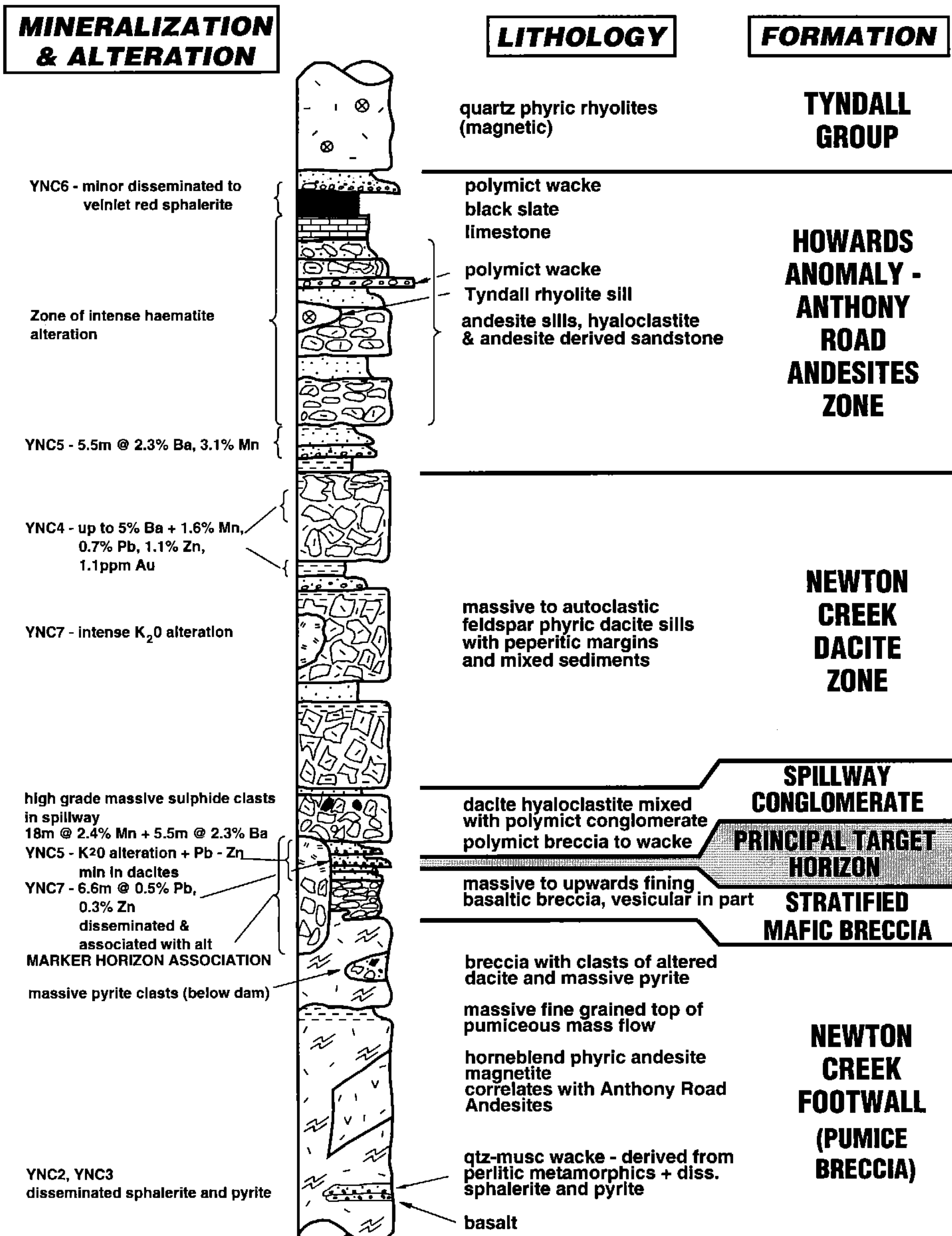

Figure 12

7.2.1 GEOLOGICAL MAPPING

a Outcrop of lower spillway polymict wacke was located in the Henty Canal pyrite zone. This is encouraging as it ties this alteration zone to the Principal Target Horizon.

b A zone of shales and altered volcanics in a creek north of the Henty Canal in the vicinity of the lower Tyndall Group contact was mapped and sampled (Figure 22). The purpose of this was to follow up anomalous base metal and gold results from this horizon further to the south.

c A traverse down Newton Creek from the spillway established a near vertical and sharp contact between magnetic, hornblende phyric andesites and altered felsic volcanics. The felsic volcanics are carbonate sericite altered and silicified in part and are dacitic in composition. These pink siliceous dacites are similar in appearance to clasts within the mafic unit (stratified mafic breccia) in the spillway. The contact appears to be intrusive.

d. A traverse was done in the Basin Lake area. The objective was to locate signs of mineralization and alteration and to correlate lithologies with those at Newton Creek. Results are not sufficiently encouraging to warrant further activity.

7.2.2 DIAMOND DRILLING

A series of seven diamond drill holes was drilled in the Newton Creek/Henty Canal area (Table 1).

The first two holes were drilled to test the Principal Target Horizon to the north of the spillway following up results from recent drilling.

Two holes were drilled south of the spillway primarily to test for mineralization and alteration in the Principal Target Horizon and coincident with a zone of magnetic depletion, a secondary objective was to correlate lithologies from south of the spillway with the stratigraphy to the north of the spillway.

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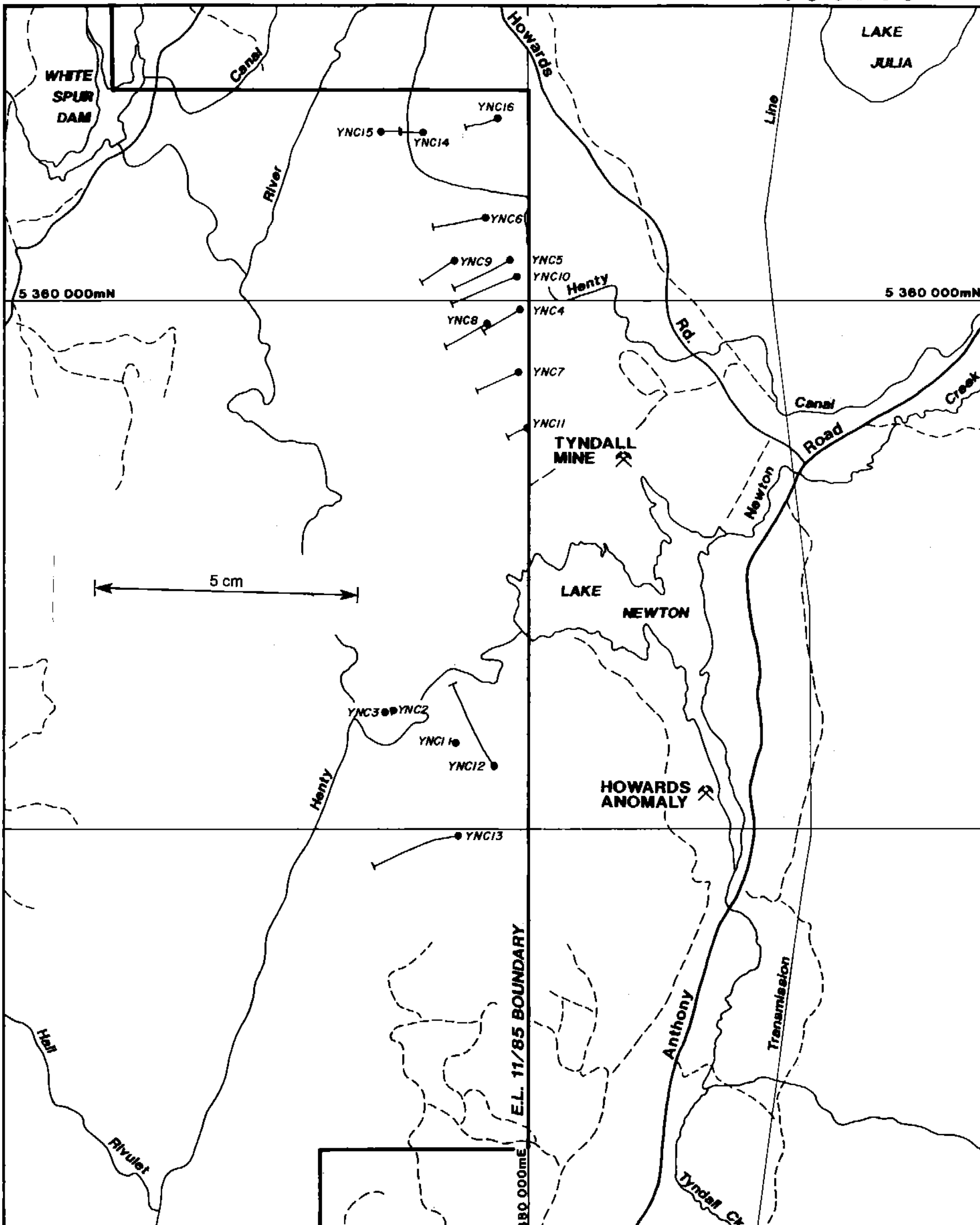

PASMINCO EXPLORATION
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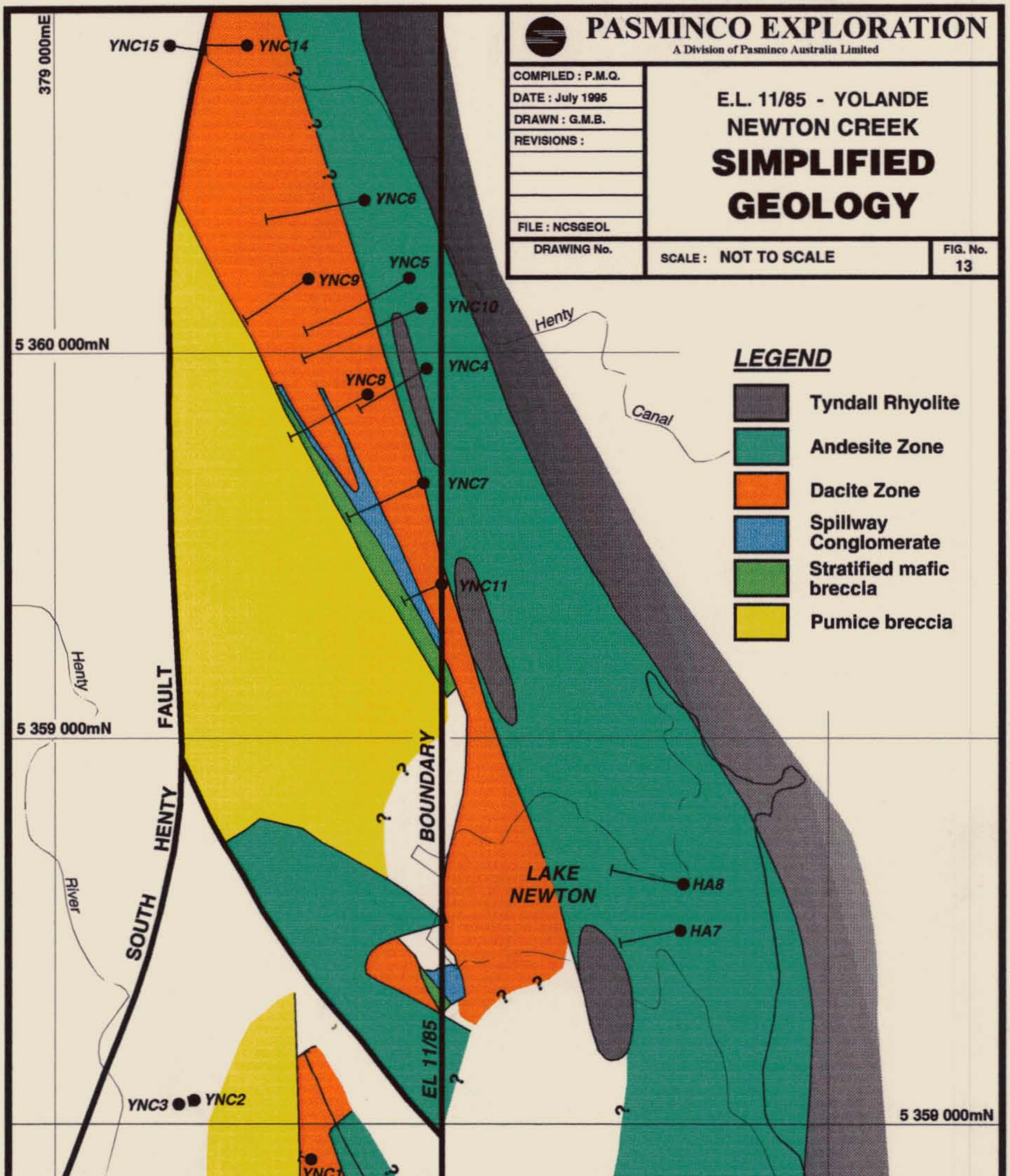
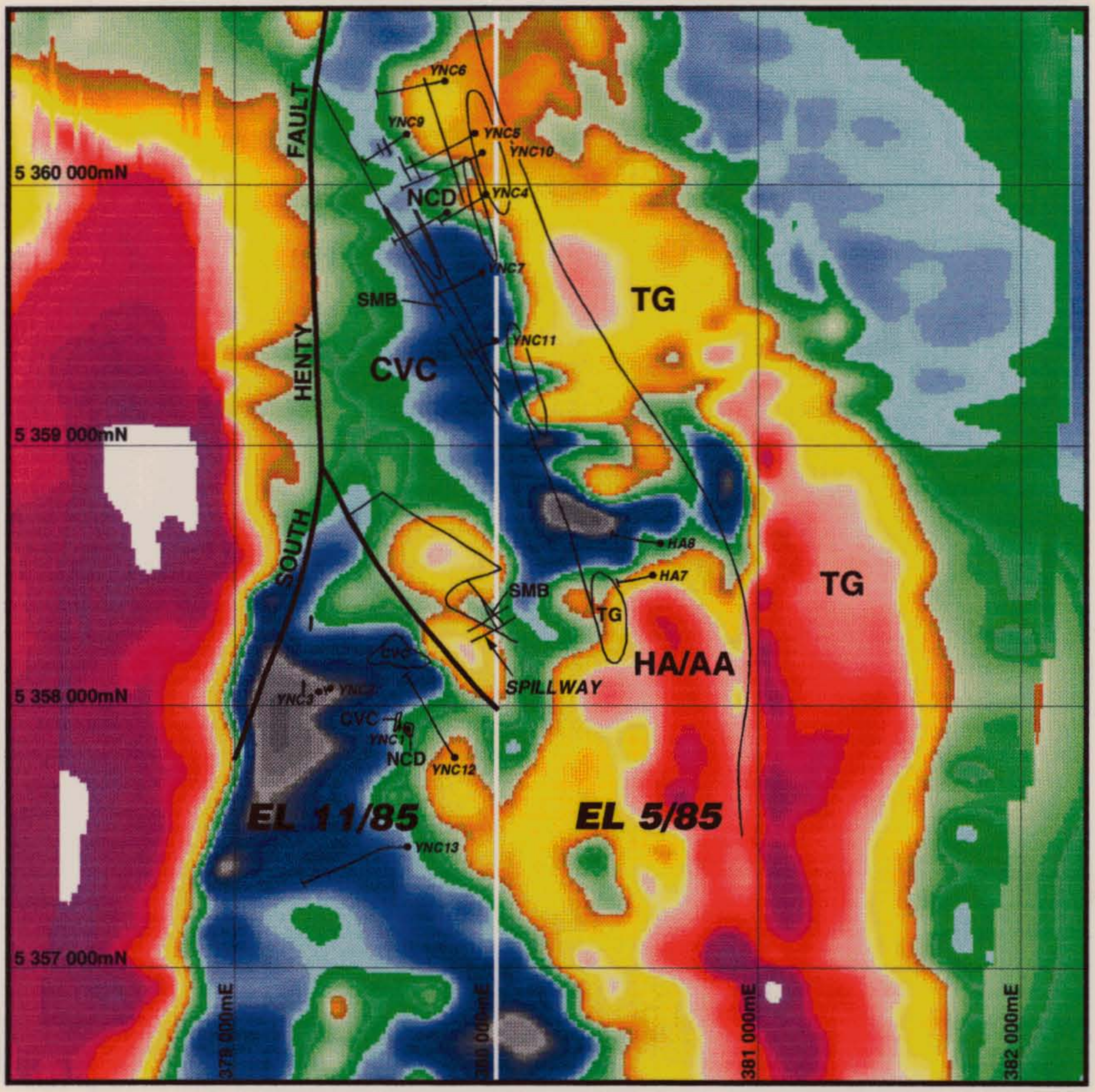
COMPILED : G.M.B.	E.L. 11/85 - YOLANDE JV
DATE : July, 1995	NEWTON CREEK
DRAWN :	**DRILLHOLE LOCATIONS**
REF. :	
REVISIONS :	
DRAWING No.	SCALE 1:25,000 250 0 250 m — FIG. No. 11

782027


PASMINCO EXPLORATION
A Division of Pasminco Australia Limited
COMPILED : P.M.Q.
DATE : July 1995
DRAWN : G.M.B.
REVISIONS :
FILE : NCSGEOL
DRAWING No.
E.L. 11/85 - YOLANDE
NEWTON CREEK
SIMPLIFIED
GEOLOGY
SCALE : NOT TO SCALE
FIG. No. 13
LEGEND
Tyndall Rhyolite
Andesite Zone
Dacite Zone
Spillway Conglomerate
Stratified mafic breccia
Pumice breccia
379 000mE
380 000mE
381 000mE
5 360 000mN
5 359 000mN
5 359 000mN
YNC15
YNC14
YNC6
YNC5
YNC9
YNC10
YNC4
YNC8
YNC7
YNC11
YNC3
YNC2
YNC1
YNC12
YNC13
HA8
HA7
Henty
Canal
Henty
River
SOUTH HENTY FAULT
BOUNDARY
EL 11/85
LAKE NEWTON

782028



LEGEND

TG	**Tyndall Group -** rhyolites
HA/AA	**Howards Anomaly/Anthony Road Andesites -** hornblende phyric andesites & mixed sediments
NCD	**Newton Creek Dacites -** peperitic dacite sills & mixed sediments
SMB	**Stratified Mafic Breccia**
CVC	**Central Volcanic Complex -** pumice breccia

5 cm

PASMINCO EXPLORATION
A Division of Pasminco Australia Limited

COMPILED : P.M.Q.	E.L. 11/85 - YOLANDE JV
DATE : July 1995	NEWTON CREEK
DRAWN : G.M.B.	**IMAGE OF AEROMAGNETIC DATA**
REVISIONS :	
FILE : 25_NCIMD	
DRAWING No.	SCALE 1:25,000 0 500 m
	FIG. No. 16

Two holes were drilled to test the intersection of the Henty Canal pyrite zone and the South Henty Fault, and one hole was drilled to test the lower Tyndall Group contact zone.

YNC10 (527.7m in length)

Objective

The hole was targeted 50m to the south and 150m below a zone of interesting alteration and mineralisation intersected in DDH YNC5 (Figure 5). The zone of alteration occurred in the upper part of the "spillway conglomerate", and the upper part of a dacite body. The principal target of YNC10 was down dip of the YNC5 alteration zone, and below the dacite body. The hole was planned to end in pumice breccias interpreted as footwall to the principal target horizon.

Secondary targets included zones of anomalous base metal, gold, barite and manganese encountered in the upper dacite and in the andesite zones.

Results

YNC10 intersected the expected sequence as follows:

0	–	4.8m	glacial cover;
4.8	–	37.1m	Tyndall Group: quartz phyric magnetite bearing rhyolite sill;
37.1	–	104m	Howards anomaly – Anthony Road Andesite zone: sequence of sediments including: Black shales, limestones, carbonate rich sandstones, polymict wackes, and andesite derived detritus.
104	–	229.1m	Tyndall Group: quartz phyric magnetite bearing rhyolite sill;
229.1	–	314.6m	Newton Creek Dacite zone: sequence of dacite hyaloclastite, reworked dacite debris and minor shale bands;
314.6	–	344.2m	Upper Newton Creek Spillway Conglomerate:

		comprising polymict breccias, dacite hyaloclastite and black shale;
344.2 -	440.7m	Newton Creek Dacite zone: comprising altered dacites correlated with zone of alteration in YNC5.
440.7 -	478.3m	Newton Creek Spillway Conglomerate: both upper polymict breccias with dacite hyaloclastite, and lower (basalt clast bearing) polymict wackes;
478.3 -	484.3	Stratified Mafic Breccia: zone of fine grained mafic detritus correlated with the spillway "submarine fire fountain basalt".
484.3 -	529.7	Newton Creek Footwall: pumice breccias.

Mineralization & Alteration

Minor pyrite, chalcopyrite and sphalerite mineralisation occurs associated with limestone bands in the andesite zone, and minor pyrite and sphalerite clasts occur in a polymict wacke between the shales and the Tyndall rhyolite.

A zone of intense sericite - carbonate alteration, bleaching and minor associated lead/zinc mineralisation occurs within the dacite zone from 277m to 306m. The Newton Creek Spillway Conglomerate zone is moderately sericitised with minor disseminated pyrite mineralisation. The dacite sill correlated with the Mn carbonate – potassic alteration in YNC5 is similarly altered, the alteration is perhaps less intense but occurs over a greater distance. Minor lead and zinc mineralisation occurs in irregular patches and veinlets again similar to that intersected in YNC5. Minor lead and zinc mineralisation also occurs in the "Spillway Conglomerate" intersected beneath the dacite sill. The sericitisation of the pumice breccias whilst it is not intense, is greater than has previously been intersected.

The best intersections are as follows:

4.9m @ 33ppm Cu, 1098ppm Pb, 2355ppm Zn, 39g/t Ag, 0.02g/t Au, 1594ppm Ba, 1334ppm Mn

5.4m @ 29ppm Cu, 632ppm Pb, 2370ppm Zn, 0.015g/t Au, 1567ppm Ba, 11920ppm Mn

Discussion

Although favourable signs of mineralisation and alteration occur in YNC10 no focus is apparent. To follow these signs would require drilling the target horizon at a greater depth, this is not considered justifiable with the remaining resources.

The Stratified Mafic Breccia is becoming finer grained and considerably thinner to the north. If the interpreted link between the mafic unit and the mineralisation indicated by the sulphide clasts is correct then the prospectivity should increase southwards with increasing coarseness and thickness of the mafic unit.

YNC11 (151.3m in length)

Objective

The objective was to test for mineralisation indicated by the increasing thickness of both the "Stratified Mafic Breccia" and the "Principal Target Horizon", and the increasing metal values towards the Newton Creek Spillway.

The target was coincident with a modest "mobile metal ion" anomaly (Figure 15).

Results

YNC11 intersected the following sequence:

0	–	34.7m	sheared and altered dacite hyaloclastite;
34.7	–	39.2m	cleaved altered polymict wacke;
39.2	–	117.7m	basalt: massive to hyaloclastite to reworked (Stratified Mafic Breccia);
117.7	–	151.3m	pumice breccia.

Discussion

Results are both intriguing and disappointing. The polymict wacke zone, although altered is narrow and poorly mineralised. The "Stratified Mafic

Breccia" zone is approximately 65m thick compared with a thickness of 35m in YNC7 to the north, and 25m in the spillway to the south. This might indicate proximity to the source of the basalt, it does not however correlate well with mineralisation.

YNC12 (577m In length)

Objective

The Principal Target Horizon in the Newton Creek area occurs within sediments, (conglomerates to shales), above pumice breccias and a thin but distinctive Stratified Mafic Breccia, and below a series of peperitic dacite sills which are in turn overlain by a distinct hornblende phyric magnetite bearing andesite. These units have contrasting magnetic properties so the position is well depicted by magnetic images (Figure 16)

This marker association has been intersected in four diamond drill holes up to 1.9kms north of the spillway. The Principal Target Horizon/marker association has been intersected south of the spillway in YNC1.

The target horizon is interpreted (from the magnetics) to continue to the south from the intersection (YNC1) in a similar strike orientation but is offset at least 800m to the west.

The offset occurs coincident with a zone of magnetic depletion approximately 700m wide trending ENE/WSW. A prominent bend in major structures including the South Henty and the Great Lyell Faults, and major alteration associated with "Howards Anomaly" occur coincident with this zone.

A distinctive unit of hornblende phyric magnetite bearing andesite occurs within this zone. This andesite which outcrops below the spillway, is similar in both appearance and geochemistry to "Anthony Road Andesites" occurring higher in the sequence.

The zone of magnetic low is interpreted as a zone of alteration associated with a major structure which may have acted as a conduit for not only the stratified mafic breccia (interpreted as a sub-marine fire fountain basalt) but also the dacites, andesites and the mineralising fluids. The magnetic andesites within the zone are interpreted as plugs of Anthony Road Andesite solidified in the vent during extrusion of the unit.

Results

YNC12 is summarised as follows:

0	–	56m	massive amygdaloidal basalt
56	–	234m	massive hornblende-phyric andesite /dacite
234	–	252.5m	peperitic dacite
252.5	–	257m	black shale
257	–	577.3m	massive feldspar-phyric dacite

Both the andesite and the basalt units contain beds of pumiceous, polymict clastics from 10 to 20m thick. Carbonate alteration occurs in both the basalt and andesite with hornblendes and feldspars being replaced by carbonate. Minor pyrite clasts occur in the pumiceous polymict clastic.

The basalts appear geochemically similar to the "Stratified Mafic Breccia", but are massive to vesicular and may occur higher in the sequence.
The andesites/dacites which are massive and hornblende phyric appear similar to those occurring footwall to the spillway, but have a similar geochemistry to lavas from the dacite zone. The dacites are similar to typical Newton Creek Dacites except that they are more extensive and more massive.

Neither the expected "Principal Target Horizon" and "footwall" pumice breccias or the expected cross structure was intersected.

Discussion

Both the andesite and dacite zones appear to be more extensive and more massive than those occurring north of the spillway.

It appears that the andesite zone is considerably thicker to the south of the cross structure than it is to the north. Also the 800m offset in the pumice breccia – dacite zone contact is not seen in the Tyndall Group – Anthony Road Andesite contact. These features may indicate a major syn–depositional structure.

Minor incipient carbonate alteration occurs throughout, however there is no significant mineralization or structural disruption. This result indicates a difference in both the thickness and position of units between the areas north and south of the spillway.

YNC13 (506m in length)

Objective

The hole was drilled 900m to the south of the spillway. The objective of the hole was to intersect the Principal Target Horizon within a zone of alteration inferred from the magnetic data.

Results

The hole intersected (going to the east and up sequence) a series of dacites, andesites, and basalts. The hole ended in altered pumiceous volcaniclastics possibly close to the target position. The last 200m of the hole intersected strong to intense sericite–silica–carbonate–pyrite alteration which appears to be increasing down hole. The hole was stopped by difficult drilling conditions due to the shallow angle of the hole.

Base metal and gold grades are disappointing, however the thickness and degree of the pyrite alteration is encouraging.

YNC14 & YNC15 (162 & 162.3m in length)

Objective

DDH YNC14 and YNC15 were drilled to test the Henty Canal pyrite zone, coincident with the intersection of the Newton Creek Principal Target Horizon and the Henty Fault, and coincident with anomalous IP response.

Results

YNC14 drilled from east of the Henty Fault intersected the following:

A zone of dacite derived sandstones;

Overlying altered pyritic dacite lavas and lava breccias.

YNC15 drilled from the west of the Henty Fault intersected the following sequence:

A zone of relatively unaltered interbedded siltstones, black shales, sandstones and greywackes;

Henty Fault Zone, deformed, sheared and altered mixed acid volcaniclastics, intermediate lavas, and graphitic shales;

Massive to autoclastic sericite – pyrite altered dacite lavas of the Newton Creek Dacite zone.

Mineralization

The Henty Fault Zone and the Newton Creek Dacites are both highly sericite – pyrite altered. however gold grades are disappointing, at best, minor zones marginally above detection level.

Discussion

Whilst results from the above drilling are disappointing, the Principal Target Horizon lies below the dacite zone and remains untested coincident with the pyrite zone and the South Henty Fault.

YNC16 (252.8m in length)

Objective

YNC16 was drilled to test for gold and base-metal mineralization associated with silicification and/or carbonate alteration in a zone of andesitic derived volcaniclastics and black shales immediately below the lower Tyndall Group contact. Anomalous base-metal and gold grades occur in drill core and surface sampling in this position to the south, and the Henty Gold deposit is thought to occur in this approximate position three kilometres to the north.

Results

The following sequence was intersected:

0	–	73.4	Tyndall Rhyolite; quartz phyric magnetite bearing.
73.4	–	125.1	Zone of mixed black shales; pumiceous volcaniclastics; siliceous siltstones; polymict wacke; with abundant massive carbonate throughout and abundant haematite alteration throughout.,
125.1	–	143.3	Zone dominated by andesite derived detritus with abundant massive white carbonate and haematite alteration.
143.3	–	205.2	Massive volcanic, resembles Tyndall rhyolite but more mafic, probably andesite, with abundant veins and bands of white carbonate and haematite alteration.
205.2	–	233.3	Sericite – haematite altered volcaniclastics, possibly dacite zone.
233.3	–	252.8	Dacite.

Results returned to data are disappointing with minor zones about twice detection level (0.008ppm). Analyses yet to be received will be appended.

Discussion

Grades to date are disappointing as is the lack of silicification and pyritization however the extent of carbonate alteration is intriguing.

E.L. 11/85 - YOLANDE

NEWTON CREEK

VOLCANIC LITHOLOGIES

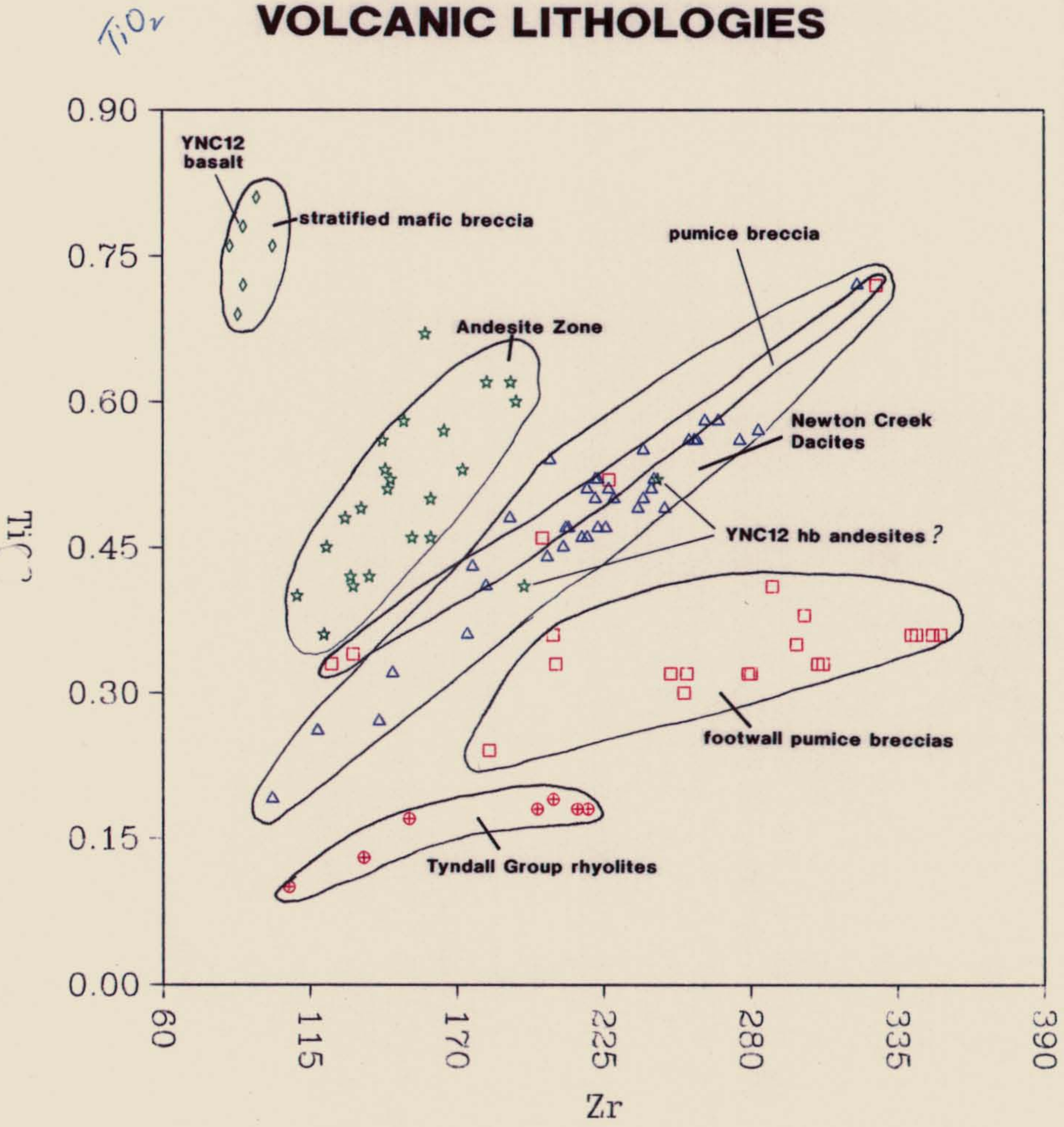


figure 17

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E.L. 11/85 - YOLANDE

NEWTON CREEK VOLCANIC LITHOLOGIES

Ti/Zr

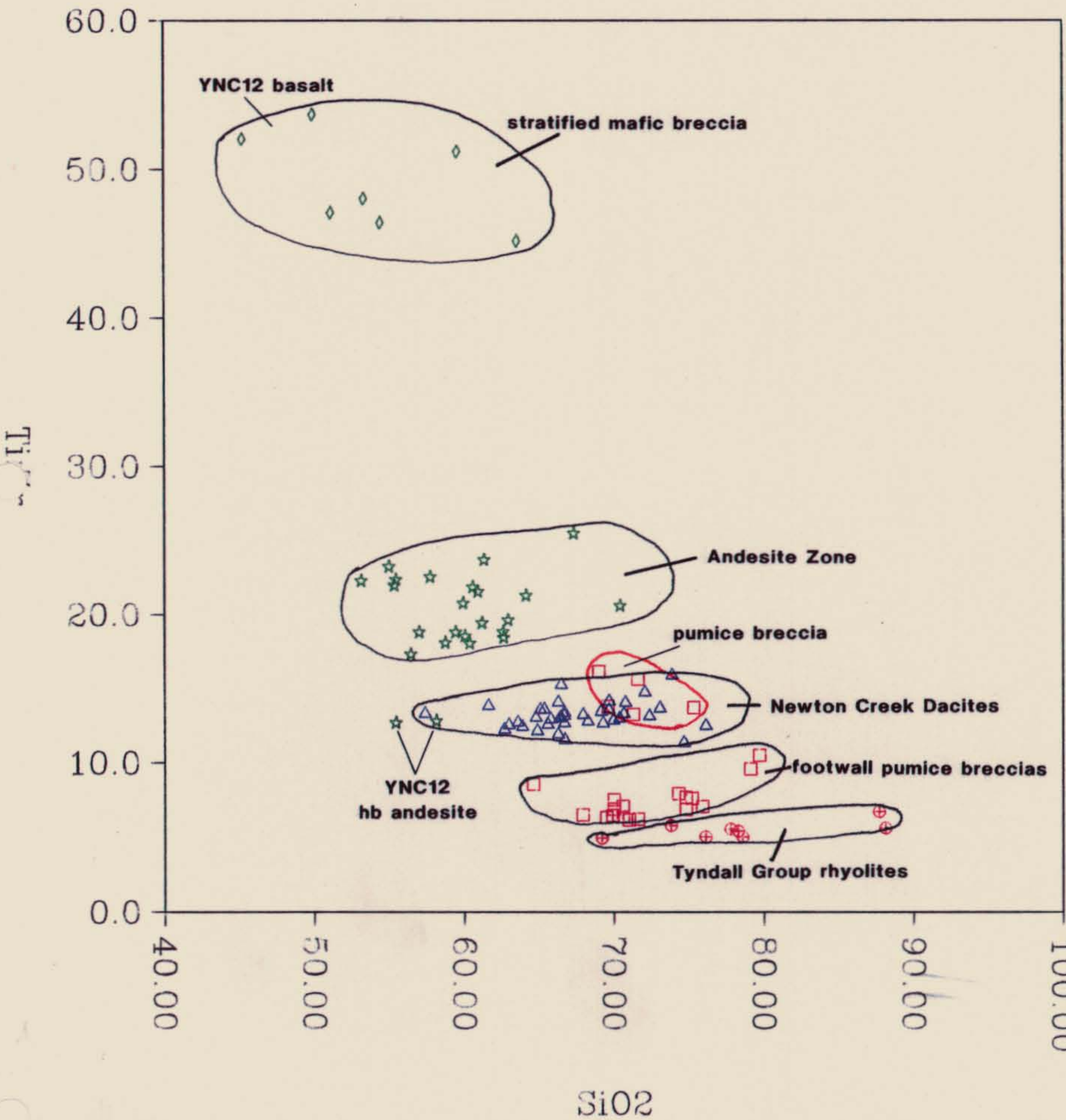

figure 18

7.2.3 GEOCHEMISTRY

During this period 190 samples of either drill core or outcrop were assayed for the base metal suite, and 34 for whole rock and trace elements.

The Newton Creek lithogeochemical set now contains 142 samples.

An orientation Mobile Metal Ion survey was conducted in the Newton Creek area (Figure 15, Appendix 10).

Lithogeochemical Study of Newton Creek.

In the Newton Creek vicinity five volcanic rock types have been determined. The identification of these volcanic types has played a major role in understanding the complex geology and in directing exploration. Scatter plots of the immobile elements TiO2 and Zr, and Ti : Zr ratio against SiO2 (Figures 17 & 18) best depicts these rock types.

Lithogeochemical correlations:

a rhyolites comprising:
Tyndall Group prominently quartz phyric magnetite bearing rhyolite intersected in YNC4 YNC5 & YNC16.

b andesite including:
the spillway footwall intrusive hornblende phyric magnetic andesite;
Anthony Road Andesites;
andesite and andesite derived detritus intersected in YNC5 & YNC6;

c dacites including:
dacite hyaloclastite intersected in every drill hole;
dacites hangingwall to the spillway conglomerate.

d basalt including:

stratified mafic breccia intersected in YNC7 YNC8 YNC9 & YNC11;
irregular basaltic clastics in the base of the spillway;
vesicular basalt clasts associated with spillway sulphide clasts;
vesicular basalt in YNC12.

e rhyodacite – dacites comprising:

pumice breccias intersected in drilling and from outcrop including from the lower spillway. Positively identified pumice breccias fall into two distinct geochemical populations, rhyodacite, and dacite. The distribution and the implications of this are not resolved.

The above volcanic stratigraphy appears to be consistent north of the spillway, however there appears to be variation in geochemistry, thickness and position of units south of the spillway. For example samples of prominently hornblende phyric, magnetite bearing andesite from YNC12 geochemically fall in the dacite field, and dacites and andesites appear to be interbanded in YNC13. This might indicate a difference in geological or structural setting.

Mobile Metal Ion Survey

A small orientation MMI study was conducted in the Newton Creek area (Figure 15 & Appendix 10). A modest Cu/Pb anomaly correlated with the stratified mafic breccia, however results are inconclusive.

7.2.4 PETROLOGY

A set of 6 petrographic samples of volcaniclastics and volcanics taken from YNC14 drill core were reported on by Crawford (Appendix 7).

All samples reported were moderately to strongly silica-sericite-pyrite altered dacite lavas or dacite derived sediments.

7.2.5 GEOPHYSICS

A review of aeromagnetic – UTEM data was conducted by Peter Smith (Appendix 8). In summary, the magnetic data are consistent with structural displacement, alteration and remnant magnetism within the Newton Creek disruption zone. No new information was gained from the UTEM review.

DHEM

DHEM surveys have been carried out on three drill holes; YNC10, YNC14 and YNC16. Specifications and results from these surveys are documented in Appendix 9.

In summary, no anomalous EM response, either in-hole or off-hole was revealed for any of the drill holes tested.

Physical Properties

Specific gravity and magnetic susceptibility data from diamond drilling undertaken during this period are listed with the drill logs (Appendix 4) and total physical property data to date is summarised in table 2.

The information collected to date indicates that significant contrasts exist in the physical properties between the specific lithologies of interest to enable detailed magnetics/stratigraphic interpretation.

7.3 White Spur

7.3.1 GEOCHEMISTRY

A programme of sampling along the Central Sequence – White Spur Formation contact was carried out. The objective was to identify alteration vectors in pumice breccias similar to those which are footwall to the Hercules mineralisation 3 to 5 kms to the north.

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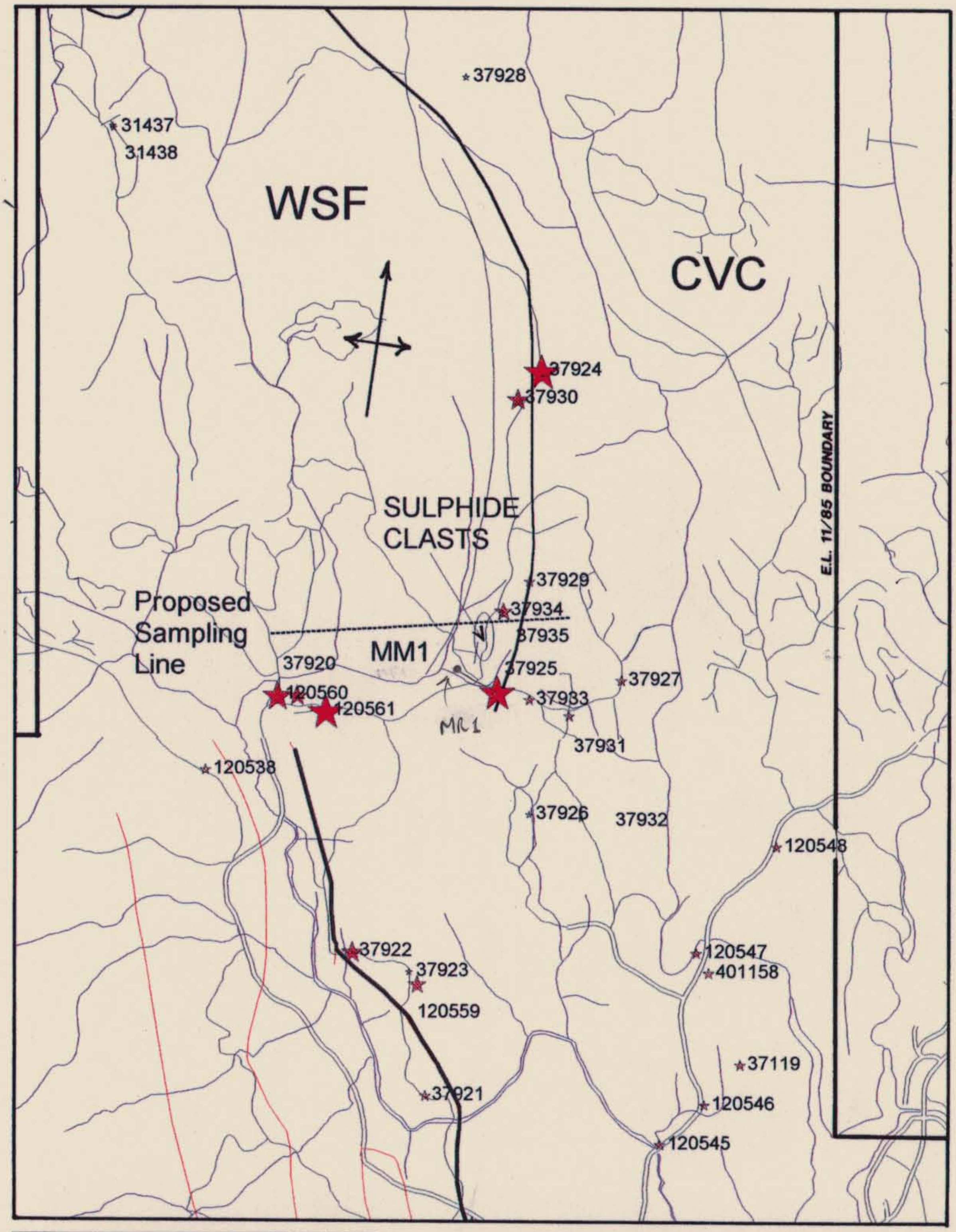


Alteration Index
100 K2O MgO + x Na2O CaO K2O MgO+ + + /

★	98 to 100
★	96 to 98
★	90 to 96
★	80 to 90
★	50 to 80
★	0 to 50

5 cm

PASMINCO EXPLORATION
A Division of Pasminco Australia Limited

COMPILED : P.M.Q.	E.L. 11/85 - YOLANDE JV
DATE : Jan., 1995	WHITE SPUR
DRAWN : P.M.Q	**ALTERATION**
REVISIONS :	
FILE :	
DRAWING No.	SCALE 1:15,000
	FIG. No. 19

TABLE 3

WHITE SPUR ALTERATION

SAMPLE	SiO2	Ti:Zr	FCODE	LCODE	AI	MI
120538	70.70	27.9		?	70	24
120545	73.70	8.1		1	54	109
120546	75.00	8.0		1	51	197
120547	73.50	9.0		1	54	106
120548	73.10	11.1		4	71	75
120559	82.20	13.0		4	83	69
120560	66.80	13.3			97	3
120561	82.10	16.2			98	5
31437	76.60				44	282
31438	73.80				44	317
37119	73.20	8.8	CVC	1	70	78
37920	66.40	11.8	CVC	?	93	6
37921	74.60	5.5	WSF	?	64	169
37922	79.10	10.9	CVC	?	94	39
37923	72.20	11.7	CVC	?	41	163
37924	71.00	11.4	CVC	Vpm	98	2
37925	65.70	11.9	CVC	Vpm	98	1
37926	78.60	10.0	CVC	Vpm	34	205
37927	77.10	9.3	CVC	Vpm	65	111
37928	73.10	12.3	CVC	Vpm	47	136
37929	78.50	12.2	CVC	Vpm	56	135
37930	77.30	7.0	WSF	Ipor	91	231
37931	69.70	12.3	CVC	Vpm	56	101
37932	70.70	11.4	CVC	Vpm	45	111
37933	71.30	11.5	CVC	Vpm	51	84
37934	80.60	2.5	CVC	Vpm	84	106
37935	79.40	5.4	WSF	Ipor	7	1556
401158	76.41	3.8		L	55	275

WSF WHITE SPUR FORMATION
CVC CENTRAL VOLCANIC COMPLEX

Vpm Pumice breccias
Ipor Quartz porphyry
L Lava

AI = 100 K2O MgO + x Na2O CaO K2O MgO + + + /
MI = 100 Na2O CaO + x Fe2O3 MgO + /

The area is of particular interest because of the occurrence of massive pyrite clasts in the basal unit of the White Spur Formation. This unit is correlated with the quartz-phyric polymict breccia that is hangingwall to the Hercules deposit. In outcrop the sulphide clasts are abundant, but restricted to an area of a few tens of metres, perhaps indicating proximity to source.

This occurrence was drilled by the Mines Department in 1984 (DDH MR1). The drill hole intersected clasts of ".. pyrite, pyrite-chert, haematite, galena, and pyritised calcic-schistose rock..". The contact was intersected at a depth of 56m indicating that the pumice breccias were folded beneath the White Spur Formation.

Results from the recent sampling are shown in Figure 19. and Table 3. Intense alteration is indicated at the contact, proximal to the sulphide clast occurrence. The geometry of the contact together with structural data indicates a northerly plunging fold to the west.

The implication is that Hercules style mineralisation could occur in altered pumice breccias beneath White Spur Formation rocks relatively close to the surface in anticlinal positions.

7.4 Henty Valley

7.4.1 DIAMOND DRILLING

YHV2 (163.5m in length)

Objective

YHV2 was drilled in the bed of Henty Valley in rocks of the Cambrian Henty Fault Wedge, to the west of the South Henty Fault. The objective was to test beneath outcropping massive pyrite and coincident IP anomalism.

TABLE 2

SUMMARY STATISTICS FOR PHYSICAL PROPERTIES

TYNDALL GROUP QUARTZ PHYRIC LAVAS

magnetic	susceptibility	S.G.
Number	127	6
Mean	2.2809	2.6867
Std Dev	2.8745	0.0685
Variance	8.26	0.00
Maximum	12.60	2.79
Minimum	0.00	2.59
Range	12.60	0.20
Coef Var	126.0212	2.5487
Std Err	0.2551	0.0280

ANTHONY ROAD ANDESITES AND MIXED SEDIMENTS

Number	362	16
Mean	1.3377	2.7081
Std Dev	2.9814	0.1511
Variance	8.89	0.02
Maximum	18.70	3.09
Minimum	0.00	2.49
Range	18.70	0.60
Coef Var	222.8833	5.5791
Std Err	0.1567	0.0378

NEWTON CREEK DACITES AND MIXED SEDIMENTS

Number	907	38
Mean	0.1693	2.6313
Std Dev	0.1632	0.1264
Variance	0.03	0.02
Maximum	3.80	2.81
Minimum	0.00	2.30
Range	3.80	0.51
Coef Var	96.4344	4.8048
Std Err	0.0054	0.0205

NEWTON CREEK STRATIFIED MAFIC BRECCIA

Number	77	5
Mean	0.2923	2.7260
Std Dev	0.2667	0.1347
Variance	0.07	0.02
Maximum	2.48	2.90
Minimum	0.06	2.50
Range	2.42	0.40
Coef Var	91.2148	4.9413
Std Err	0.0304	0.0602

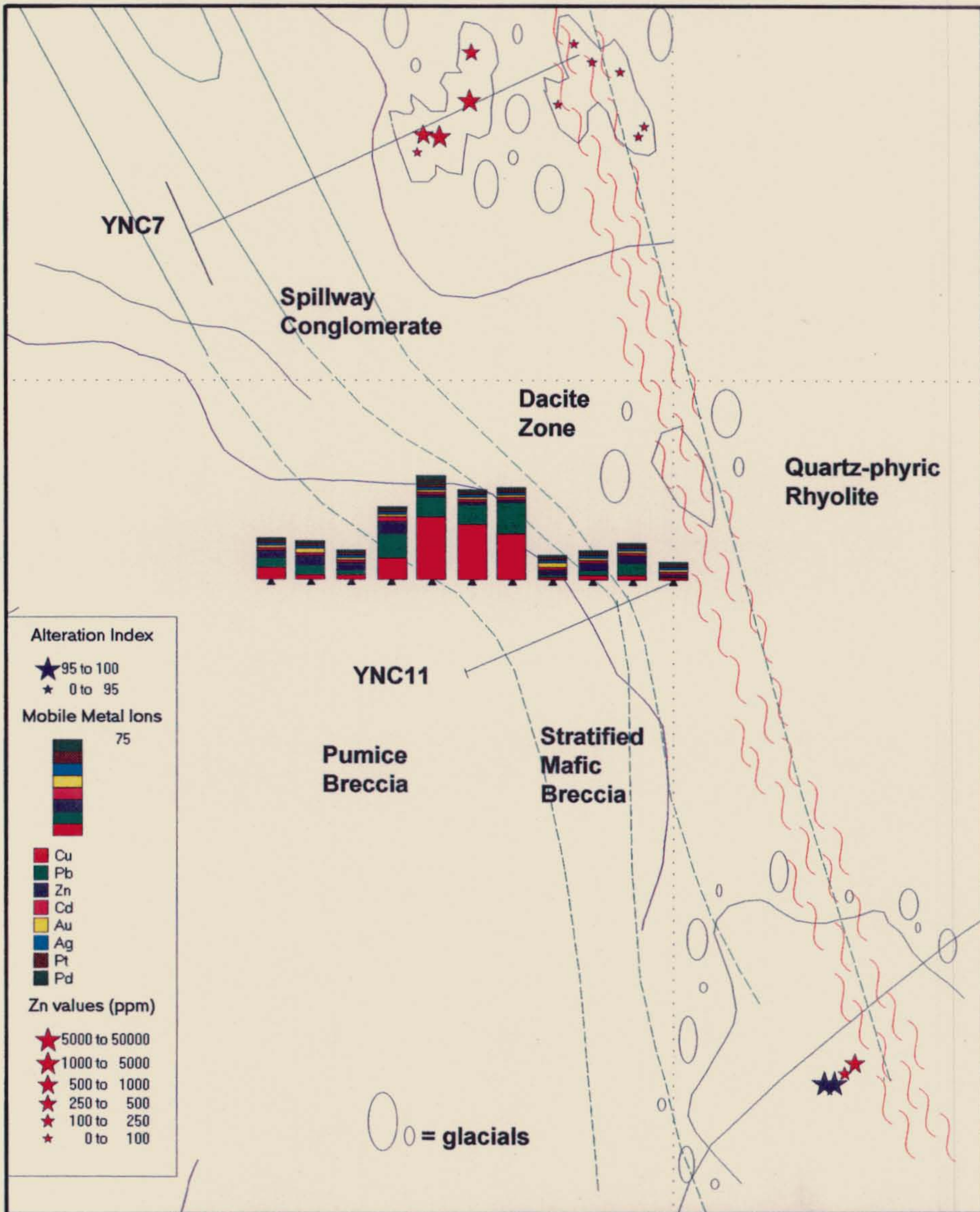
TABLE 2 cont..

NEWTON CREEK FOOTWALL PUMICE BRECCIA

Number	96	16
Mean	0.1064	2.6275
Std Dev	0.0508	0.1540
Variance	0.00	0.02
Maximum	0.32	2.81
Minimum	0.01	2.26
Range	0.31	0.55
Coef Var	47.7516	5.8599
Std Err	0.0052	0.0385

SUMMARY OF AVERAGES

	magnetic susceptibility	S.G.
TYNDALL GROUP QUARTZ PHYRIC LAVAS	2.28	2.69
ANTHONY ROAD ANDESITES AND MIXED SEDIMENTS	1.34	2.71
NEWTON CREEK DACITES AND MIXED SEDIMENTS	0.17	2.63
NEWTON CREEK STRATIFIED MAFIC BRECCIA	0.29	2.73
NEWTON CREEK FOOTWALL PUMICE BRECCIA	0.11	2.63



5 cm

PASMINCO EXPLORATION

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COMPILED : P.M.Q.
DATE : Jan., 1995
DRAWN : P.M.Q
REVISIONS :
FILE :
DRAWING No.

E.L. 11/85 - YOLANDE JV

NEWTON CREEK

PLAN VIEW OF RESULTS FROM DRILLHOLE YNC11 AND MMI SAMPLING

SCALE 1:2500

FIG. No. 15

Results

The massive pyrite outcrop correlated with a pyritic – pyrrhotitic infilled fault separating black mudstones from silicified siltstones. The IP – Resistivity anomaly correlates with black pyritic limestones (with 2 to 10% disseminated pyrite). Brecciated greywackes with a high volcanic component, and soft sediment textures suggest deformation of a rapidly accumulating sedimentary pile during lithification. Scattered pyrite with minor chalcopyrite were intersected in the top 74m of the hole. The hole ended short of its proposed depth in cherty silicified mudstones because the objective of the hole had been achieved.

The core was intensively sampled however neither lead or zinc grades exceeded 200ppm, the highest value for copper was 775ppm but few grades exceeded 100ppm. With the exception of a single 3ppm silver value, no silver or gold grades exceeded detection level (1ppm and 0.008ppm respectively). Few arsenic values exceeded 50ppm, manganese ranged from 700 to 4400ppm, and iron averaged approximately 6 to 10%.

No indicators of proximity to significant alteration or mineralization were found.

A set of 4 petrographic samples taken from YHV2 drill core were reported on by Crawford (Appendix 7).

Samples included limy mudstone, dolerite, meta-pelite and andesitic tholeiites, possible correlates of the Henty Dyke Swarm.

7.5 Lynchford

A low key mapping and sampling programme was carried out in the vicinity of the Queen River south of Queenstown on the Lynchford Block (Figure 20). The objective was to test for mineralization or alteration within Gordon Limestones. A total of 19 samples were analysed. Few samples exceeded 50ppm for either Cu Pb or Zn. Results were insufficient to proceed further with the programme.

8 RGC TAILINGS EASEMENT PROPOSAL

Negotiations concerning the application for a depth–limited easement over part of EL 11/85, lodged by Renison Goldfields in 1991 as part of their proposed Henty Gold Mine Development, have continued.

Application for a reduced area was proposed by RGC, and Pasminco indicated that a relatively small programme of sampling of core from existing drill holes would effectively test this proposed area.

Depending upon the results of this work and the results of the current phase of exploration within the Newton Creek area of EL 11/85, it is possible that the Yolande Joint Venture will be in a position to accept the Henty Tailings Easement Application and thus enable the Mines Department to proceeds with its' processing.

Time constraint upon tenure may affect the above proposals.

9 ENVIRONMENTAL DISTURBANCE & REHABILITATION

Environmental Disturbance on Yolande EL 11/85 during 1994–95 comprised The construction of six diamond drill sites, five with a vehicle access track, and one with a helicopter landing pad. Three of these tracks were constructed on button grass plains to a maximum length of 250m, the remaining two involved the refurbishment and extension of old logging tracks in deferred forest.

Part of three of these tracks crossed ground held by Aberfoyle. Aberfoyle's approval was sought and granted.

During application for approval of drilling access tracks and drill sites south of the spillway samples of vegetation were tested for phytophthora. Results within EL 11/85 were negative. All equipment was sprayed with ABF42 prior to moving onto site and vehicle access to the site was restricted. A vehicles washing and spraying station has been set up at Pasminco's Tullah core compound.

There are to date ten tracks awaiting rehabilitation which will be carried out as soon as they are no longer required.

10 EXPENDITURE

Total expenditure on EL 11/85 during the twelve month period to 30 June 1995, was $401 067 bringing the total expenditure on licence since it's inception on 21 August 1985 to $1987 082.

Details of the 1994-95 expenditure are as follows:

Personnel: Salaries, Wages & Oncosts	92 588
Travel & Accommodation	3 750
Analytical Services	11 866
Geophysical Consultants	6 094
Drilling: inc. access & core process./storage	200 782
Other Contractors	4 058
Stores & Supplies	4 489
Vehicles & Equipment	7 789
Computing	3 501
Tenement Costs	2 526
Office Running Costs	27 163
Total Direct Costs	
Administration/Management Fee	36 461
TOTAL EXPENDITURE	**401 067**

11 CONCLUSIONS AND RECOMMENDATIONS 1994–95

Newton Creek – Henty Canal

The Principal Target Horizon (the source of the spillway massive sulphide clasts) previously identified has been further substantiated. It lies at the transition between underlying pumice breccias and overlying sediments that were intruded by a series of peperitic dacite sills. The position is marked by an unusual stratified mafic breccia of basaltic composition. This rock type association provides an excellent geochemical and geophysical marker horizon.

A secondary horizon within the andesite zone between the underlying dacite zone and overlying Tyndall Group rhyolites was tested. This target is associated with a carbonate zone, haematite alteration and black shales.

It is recommended that both these zones warrant further testing and that either an extension to the current licence, or future tenure be applied for this area.

White Spur

Minor but potentially significant alteration has been located in felsic volcanics proximal to the occurrence of pyrite clasts within White Spur Formation polymict breccias. A potential target may lie at depth beneath the White Spur Formation.

It is recommended that the White Spur area warrants further testing and that either an extension to the current licence, or future tenure be applied for this area.

Henty Valley

Pyritic outcrop coincident with an IP/Resistivity anomaly was drill tested. Results indicate that the pyrite outcrop correlates with a faulted contact within black shales, and the IP anomaly is explained by pyritic and pyrrhotitic black shales and carbonatious limestones. No indications of proximity to base-metal or gold mineralization was found.

Results are insufficiently encouraging to warrant further exploration at this time. It is recommended that this area be relinquished.

KEYWORDS

LEAD, ZINC, GOLD, BLACK SHALE, CONGLOMERATE, LIMESTONE, ACID VOLCANICS, ANDESITE, BASALT, FACIES MARINE SHALLOW, FAULT, FOLD, THRUST, VOLCANOGENIC, CAMBRIAN, DRILL DIAMOND, GEOCHEM ROCK, GEOPHYS DHEM, GEOPHYS IP, GEOPHYS MAGNETICS, PETROLOGY.

LOCATION

QUEENSTOWN SK5505, HENTY RIVER, NEWTON CREEK, WHITE SPUR, YOLANDE RIVER

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APPENDICES

Appendix 1

Analytical Reports

Analabs ****************************

782057

Analabs Pty. Ltd.
A.C.N. 004 591 664

Phone (004) 316837 | 14 Thirkell St. COOEE TAS 7320 | Fax (004) 318890

ANALYTICAL REPORT No. 111310.60.11085

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

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2	03/08/95	1	44

SAMPLE NUMBERS	SAMPLE DESCRIPTION	ELEMENT/METHOD
40737-747,40756-788	CO Prep : 6P029 P1	Au,Au(R),Au(S)/6G309 Cu,Pb,Zn,Ag,Mn/6A140

RESULTS TO
Mr M Quayle
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

RESULTS TO

RESULTS TO

REMARKS

AUTHORISED OFFICER

Analabs

Analabs Pty. Ltd.
A.C.N. 004 591 664

782058

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.11085	03/08/95	2251	1 OF 2

	SAMPLE No.	Cu	Pb	Zn	Ag	Mn	Au	Au(R)	Au(S)	
METHOD		GA140	GA140	GA140	GA140	GA140	GG309	GG309	GG309	
1	40737	–	–	–	–	–	0.008	–	–	
2	40738	–	–	–	–	–	<0.008	–	–	
3	40739	–	–	–	–	–	<0.008	–	–	
4	40740	–	–	–	–	–	0.043	–	–	
5	40741	–	–	–	–	–	0.011	–	–	
6	40742	–	–	–	–	–	<0.008	–	–	
7	40743	–	–	–	–	–	<0.008	–	–	
8	40744	–	–	–	–	–	<0.008	–	–	
9	40745	–	–	–	–	–	<0.008	–	–	
10	40746	–	–	–	–	–	0.008	–	–	
11	40747	–	–	–	–	–	0.009	–	–	
12	40756	83	8	128	<1	1607	0.015	0.017	–	
13	40757	66	<3	169	<1	1526	0.010	–	–	
14	40758	3	<3	100	<1	1556	0.008	–	–	
15	40759	3	<3	119	<1	1515	<0.008	–	–	
16	40760	7	<3	101	<1	1660	0.009	–	–	
17	40761	3	<3	81	<1	1812	<0.008	–	–	
18	40762	3	<3	59	<1	1817	<0.008	–	<0.008	
19	40763	5	<3	36	<1	1666	<0.008	–	–	
20	40764	180	<3	76	<1	1155	<0.008	–	–	
21	40765	18	<3	31	<1	1541	<0.008	–	–	
22	40766	9	<3	28	<1	1419	<0.008	<0.008	–	
23	40767	6	<3	79	<1	760	0.019	–	–	
24	40768	2	<3	24	<1	2025	<0.008	–	–	
25	40769	2	<3	30	<1	1785	<0.008	–	–	

Results in ppm unless otherwise specified
– = element not determined

IS = insufficient sample
SNR = sample not received

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A.C.N. 004 591 664

782059

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.11085	03/08/95	2251	2 OF 2

	SAMPLE No.	Cu	Pb	Zn	Ag	Mn	Au	Au(R)	Au(S)	
METHOD		GA140	GA140	GA140	GA140	GA140	GG309	GG309	GG309	
1	40770	<2	<3	26	<1	1964	0.009	-	-	
2	40771	2	<3	27	<1	1555	<0.008	-	-	
3	40772	<2	<3	110	<1	1619	0.014	-	-	
4	40773	<2	<3	22	<1	1039	0.013	-	-	
5	40774	2	<3	23	<1	1127	0.008	-	-	
6	40775	5	<3	36	<1	1363	0.011	-	-	
7	40776	205	7	63	<1	906	0.018	-	-	
8	40777	38	14	227	<1	1082	0.009	-	-	
9	40778	16	399	1560	<1	654	<0.008	-	0.010	
10	40779	13	174	580	<1	691	0.008	-	-	
11	40780	12	80	261	<1	704	<0.008	-	-	
12	40781	12	78	212	<1	785	<0.008	<0.008	-	
13	40782	15	58	590	<1	847	<0.008	-	-	
14	40783	9	30	158	<1	878	<0.008	-	-	
15	40784	8	53	248	<1	1117	<0.008	-	-	
16	40785	11	66	191	<1	752	<0.008	-	-	
17	40786	12	117	469	<1	1092	<0.008	-	<0.008	
18	40787	24	160	1230	<1	891	0.008	-	-	
19	40788	8	54	195	<1	545	<0.008	-	-	
20										
21										
22										
23										
24	DETECTION	2	3	2	1	3	0.008	0.008	0.008	
25	UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	

Results in ppm unless otherwise specified
- = element not determined

IS = insufficient sample
SNR = sample not received

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A.C.N. 004 591 664

782060

Phone (004) 316837 | 14 Thirkell St. COOEE TAS 7320 | Fax (004) 318890

ANALYTICAL REPORT No. 111310.60.11066

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

INVOICE TO:
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

ORDER No.	PROJECT
1500	

DATE RECEIVED	RESULTS REQUIRED
07/07/95	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
3	27/07/95	1	11

SAMPLE NUMBERS	SAMPLE DESCRIPTION	ELEMENT/METHOD
40703-05,40748-755	CO Prep : GP029 P4	Cu,Pb,Zn,Ag,Mn/GA140 Au,Au(R)/GG309 Zr,Rb,Sr,V,Nb,Y/GX401 WHOLE ROCK/OX408

RESULTS TO:
Mr M Quayle
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

RESULTS TO:

RESULTS TO:

REMARKS

AUTHORISED OFFICER

Analabs

Analabs Pty. Ltd.
A.C.N. 004 591 664

782061

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.11066	27/07/95	1500	1 OF 3

	SAMPLE No.	Cu	Pb	Zn	Ag	Mn	Au	Au(R)	Al2O3	SiO2
METHOD		GA140	GA140	GA140	GA140	GA140	GG309	GG309	OX408	OX408
1	40748	3	3	12	1	41	<0.008	-	-	-
2	40749	4	<3	15	2	50	<0.008	-	-	-
3	40750	2	3	11	<1	33	0.070	-	-	-
4	40751	2	15	49	3	77	<0.008	-	-	-
5	40752	2	10	26	2	55	0.025	-	-	-
6	40753	7	45	80	3	228	0.012	-	-	-
7	40754	2	49	28	4	75	<0.008	-	-	-
8	40755	39	91	112	3	119	<0.008	-	-	-
9	40704	-	-	-	-	-	<0.008	<0.008	-	-
10	40705	-	-	-	-	-	<0.008	-	-	-
11	40703	-	-	-	-	-	-	-	12.50	75.30
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	2	3	2	1	3	0.008	0.008	0.05	0.05
25	UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%

Results in ppm unless otherwise specified IS = insufficient sample
- = element not determined SNR = sample not received

AUTHORISED OFFICER

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Analabs Pty. Ltd.
A.C.N. 004 591 664

782062

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.11066	27/07/95	1500	2 OF 3

	SAMPLE No.	TiO2	Fe2O3	MnO	CaO	K2O	MgO	P2O5	SO3	Na2O
METHOD		OX408	OX408	OX408	OX408	OX408	OX408	OX408	OX408	OX408
1	40703	0.20	1.47	0.10	1.07	2.50	0.56	0.038	0.12	2.97
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	0.01	0.01	0.01	0.01	0.01	0.01	0.005	0.01	0.05
25	UNITS	%	%	%	%	%	%	%	%	%

Results in ppm unless otherwise specified
— = not determined
IS = insufficient sample
SNR = sample not received

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A.C.N. 004 591 664

782063

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.11066	27/07/95	1500	3 OF 3

	SAMPLE No.	LOI	Total							
METHOD		OX408	OX408							
1	40703	2.46	99.30							
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	0.01	0.01							
25	UNITS	%	%							

Results in [illegible] unless otherwise specified
[illegible]

IS = insufficient sample
SNR = sample not received

AUTHORISED OFFICER

Analabs

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A.C.N. 004 591 664

782064

Phone (004) 316837 | 14 Thirkell St. COOEE TAS 7320 | Fax (004) 318890

ANALYTICAL REPORT No. 111310.60.10894

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

INVOICE TO:
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

ORDER No.	PROJECT
1490	3003

DATE RECEIVED	RESULTS REQUIRED
01/05/95	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
4	16/05/95	1	11

SAMPLE NUMBERS	SAMPLE DESCRIPTION	ELEMENT/METHOD
40423/432,39645	CO Prep : GP029 P4	Cu,Pb,Zn,Ag,Fe,Mn/GA140 As/HA140,As/GA140 Fe/GA104 Au,Au(R)/GG309 WHOLE ROCK/GX408 Ba,Rb,Sr,V,Nb,Y,Zr/GX401

RESULTS TO
Mr M Quayle
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

RESULTS TO

RESULTS TO

REMARKS

AUTHORISED OFFICER

Analabs

Analabs Pty. Ltd.
A.C.N. 004 591 664

782065

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10894	16/05/95	1490	1 OF 4

	SAMPLE No.	Cu	Pb	Zn	Ag	Fe	Fe	Mn	Au	Au(R)
METHOD		GA140	GA140	GA140	GA140	GA140	GA104	GA140	GG309	GG309
1	40423	38	205	216	3	>5.00	5.41	357	0.010	-
2	40424	35	126	128	3	4.94	-	435	<0.008	-
3	40425	48	49	109	1	3.45	-	826	<0.008	-
4	40426	419	65	47	8	>5.00	7.39	192	0.031	-
5	40427	303	72	45	4	>5.00	6.16	67	0.052	0.053
6	40428	42	85	65	1	4.21	-	129	0.016	-
7	40429	62	113	65	2	4.61	-	132	0.016	-
8	40430	25	88	56	1	3.18	-	279	0.015	-
9	40431	20	47	77	1	2.85	-	235	<0.008	-
10	40432	16	43	29	1	2.79	-	253	0.014	-
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	2	5	2	1	0.01	0.01	3	0.008	0.008
25	UNITS	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm

Results in ppm unless otherwise specified
- = element not determined

IS = Insufficient Sample
SNR = sample not received

AUTHORISED OFFICER

Analabs

Analabs Pty. Ltd.
A.C.N. 004 591 664

782066

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10894	16/05/95	1490	2 OF 4

	SAMPLE No.	As	As	Ba	Rb	Sr	V	Nb	Y	Zr
METHOD		HA140	GA140	GX401	GX401	GX401	GX401	GX401	GX401	GX401
1	40423	36.2	-	507	-	-	-	-	-	-
2	40424	32.8	-	410	-	-	-	-	-	-
3	40425	23.8	-	549	-	-	-	-	-	-
4	40426	27.5	-	628	-	-	-	-	-	-
5	40427	39.5	-	589	-	-	-	-	-	-
6	40428	>50.0	75	567	-	-	-	-	-	-
7	40429	>50.0	51	782	-	-	-	-	-	-
8	40430	>50.0	75	752	-	-	-	-	-	-
9	40431	16.0	-	774	-	-	-	-	-	-
10	40432	33.0	-	683	-	-	-	-	-	-
11	39645	-	-	-	113	178	47	10	33	229
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	0.5	50	10	5	5	5	3	3	5
25	UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Results in ppm unless otherwise specified
– = element not determined

IS = insufficient sample
SNR = sample not received

AUTHORISED OFFICER

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A.C.N. 004 591 664

782067

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10894	16/05/95	1490	3 OF 4

	SAMPLE No.	Al2O3	SiO2	TiO2	Fe2O3	MnO	CaO	K2O	MgO	P2O5
METHOD		0X408	0X408	0X408	0X408	0X408	0X408	0X408	0X408	0X408
1	40423	14.40	63.80	0.48	7.26	0.05	1.52	3.12	0.57	0.119
2	39645	14.40	66.70	0.50	4.45	0.06	3.21	3.65	0.86	0.135
3										
4										
5										
6										
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12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	0.05	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.005
25	UNITS	%	%	%	%	%	%	%	%	%

Results in ppm unless otherwise specified. – = not determined

IS = insufficient sample
SNR = sample not received

AUTHORISED OFFICER

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Analabs Pty. Ltd.
A.C.N. 004 591 664

782068

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10894	16/05/95	1490	4 OF 4

	SAMPLE No.	SO3	Na2O	LOI	Total					
METHOD		OX408	OX408	OX408	OX408					
1	40423	1.00	3.39	4.74	100.50					
2	39645	0.17	2.46	4.12	100.70					
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	0.01	0.05	0.01	0.01					
25	UNITS	%	%	%	%					

Results in ppm unless otherwise specified. IS = insufficient sample
-- = element not determined SNR = sample not received

AUTHORISED OFFICER

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Analabs Pty. Ltd.
A.C.N. 004 591 664

782069

Phone (004) 316837	14 Thirkell St, COOEE TAS 7320	Fax (004) 318890

ANALYTICAL REPORT No. 111310.60.10893

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

INVOICE TO:

Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

ORDER No.	PROJECT
1489	3003

DATE RECEIVED	RESULTS REQUIRED
01/05/95	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
4	15/05/95	1	31

SAMPLE NUMBERS	SAMPLE DESCRIPTION	ELEMENT/METHOD
40401-403,40973-41000	CO Prep : GP029 P4	Cu,Pb,Zn,Ag,Fe,Mn/GA140,As/HA140 As/GA140, Fe/GA104 Au,Au(R),Au(S)/GG309

RESULTS TO

Mr M Quayle
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

RESULTS TO

RESULTS TO

REMARKS

AUTHORISED OFFICER

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Analabs Pty. Ltd.
A.C.N. 004 591 664

782070

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10893	15/05/95	1489	1 OF 4

	SAMPLE No.	Cu	Pb	Zn	Ag	Fe	Fe	Mn	Au	Au(R)
METHOD		GA140	GA140	GA140	GA140	GA140	GA104	GA140	GG309	GG309
1	40401	10	10	17	<1	2.78	-	1818	<0.008	-
2	40402	427	20	97	<1	>5.00	7.89	430	<0.008	-
3	40403	6	<3	11	<1	1.06	-	330	<0.008	-
4	40973	85	31	82	<1	>5.00	9.47	736	<0.008	-
5	40974	95	3	90	<1	>5.00	9.71	835	<0.008	-
6	40975	81	12	89	<1	>5.00	9.24	737	<0.008	-
7	40976	74	<3	99	<1	>5.00	8.27	1225	<0.008	-
8	40977	31	9	141	<1	>5.00	11.30	1789	<0.008	-
9	40978	85	24	108	<1	>5.00	8.53	937	<0.008	-
10	40979	77	33	105	<1	>5.00	8.60	787	<0.008	-
11	40980	85	12	98	<1	>5.00	9.13	966	<0.008	-
12	40981	83	48	52	<1	>5.00	5.98	1014	<0.008	0.012
13	40982	59	52	40	<1	>5.00	5.63	2030	<0.008	-
14	40983	60	24	64	<1	>5.00	8.16	1130	<0.008	-
15	40984	775	103	51	<1	>5.00	7.24	3030	<0.008	-
16	40985	371	136	53	3	>5.00	7.57	2607	<0.008	-
17	40986	62	19	62	<1	>5.00	5.87	1009	<0.008	-
18	40987	110	9	71	<1	>5.00	6.20	772	<0.008	-
19	40988	73	61	62	<1	>5.00	8.17	1999	<0.008	-
20	40989	29	42	33	<1	3.34	-	2850	<0.008	-
21	40990	16	38	32	<1	>5.00	6.67	4154	<0.008	-
22	40991	15	36	32	<1	>5.00	8.92	4390	<0.008	<0.008
23	40992	19	28	32	<1	>5.00	8.38	3713	<0.008	-
24	40993	18	130	30	<1	>5.00	6.80	3600	<0.008	-
25	40994	18	39	17	<1	2.57	-	1272	<0.008	-

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A.C.N. 004 591 664

782071

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10893	15/05/95	1489	2 OF 4

	SAMPLE No.	Cu	Pb	Zn	Ag	Fe	Fe	Mn	Au	Au(R)
METHOD		GA140	GA140	GA140	GA140	GA140	GA104	GA140	GG309	GG309
1	40995	30	171	27	<1	>5.00	8.87	3495	<0.008	-
2	40996	24	78	28	<1	2.76	-	794	<0.008	-
3	40997	23	53	17	<1	2.33	-	789	<0.008	-
4	40998	18	17	30	<1	>5.00	8.17	3669	<0.008	-
5	40999	33	6	45	<1	>5.00	6.50	948	<0.008	-
6	41000	42	8	37	<1	4.11	-	1191	<0.008	-
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	2	3	2	1	0.01	0.01	3	0.008	0.008
25	UNITS	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm

Results in ppm unless otherwise specified
- = element not determined

IS = insufficient sample
SNR = sample not received

AUTHORISED OFFICER

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Analabs Pty. Ltd.
A.C.N. 004 591 664

782072

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10893	15/05/95	1489	3 OF 4

	SAMPLE No.	Au(S)	As	As						
METHOD		BG309	HA140	GA140						
1	40401	-	14.0	-						
2	40402	-	6.5	-						
3	40403	-	5.9	-						
4	40973	-	23.0	-						
5	40974	-	2.9	-						
6	40975	-	18.0	-						
7	40976	<0.008	5.7	-						
8	40977	-	9.0	-						
9	40978	-	20.0	-						
10	40979	-	21.0	-						
11	40980	-	18.0	-						
12	40981	-	32.0	-						
13	40982	-	37.0	-						
14	40983	-	40.0	-						
15	40984	-	43.0	-						
16	40985	-	>50.0	126						
17	40986	-	44.0	-						
18	40987	-	37.0	-						
19	40988	-	>50.0	76						
20	40989	-	32.0	-						
21	40990	-	15.0	-						
22	40991	-	12.0	-						
23	40992	-	22.0	-						
24	40993	-	15.0	-						
25	40994	-	18.0	-						

Results in ppm unless otherwise specified
- = element not determined

IS = insufficient sample
SNR = sample not received

AUTHORISED OFFICER

Analabs

Analabs Pty. Ltd.
A.C.N. 004 591 664

782073

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10893	15/05/95	1489	4 OF 4

	SAMPLE No.	Au(S)	As	As						
METHOD		GG309	HA140	GA140						
1	40995	–	17.0	–						
2	40996	–	18.0	–						
3	40997	–	14.0	–						
4	40998	–	12.0	–						
5	40999	–	5.6	–						
6	41000	<0.008	2.6	–						
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	0.008	0.5	50						
25	UNITS	ppm	ppm	ppm						

Results in ppm unless otherwise specified. IS = insufficient sample
– = element not determined SNR = sample not received

AUTHORISED OFFICER

Analabs

Analabs Pty. Ltd.
A.C.N. 004 591 664

YNC 13
782074

Phone (004) 316837	14 Thirkell St. COOEE TAS 7320	Fax (004) 318890

ANALYTICAL REPORT No. 111310.60.10895

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

INVOICE TO:
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

ORDER No.	PROJECT
1491	3003

DATE RECEIVED	RESULTS REQUIRED
01/05/95	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
4	15/05/95	1	37

SAMPLE NUMBERS	SAMPLE DESCRIPTION	ELEMENT/METHOD
37968-976,37992-38000,40404-422	CO Prep : GP029 P4	Cu,Pb,Zn,Ag,Fe,Mn/GA140 Fe/GA104 Au,Au(R),Au(S)/GG309 Ba/GX401

RESULTS TO
Mr M Quayle
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

RESULTS TO

RESULTS TO

REMARKS

AUTHORISED OFFICER

Analabs

Analabs Pty. Ltd.
A.C.N. 004 591 664

782075

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10895	15/05/95	1491	1 OF 4

	SAMPLE No.	Cu	Pb	Zn	Ag	Fe	Fe	Mn	Au	Au(R)
METHOD		GA140	GA140	GA140	GA140	GA140	GA104	GA140	GG309	GG309
1	37968	37	21	111	<1	4.67	-	739	<0.008	-
2	37969	12	18	81	<1	3.23	-	866	<0.008	-
3	37970	12	30	109	<1	3.27	-	652	<0.008	-
4	37971	11	25	64	<1	3.15	-	487	<0.008	-
5	37972	14	20	72	<1	3.64	-	612	<0.008	-
6	37973	11	24	70	<1	3.12	-	734	<0.008	-
7	37974	10	25	89	<1	3.49	-	447	<0.008	-
8	37975	12	25	87	<1	3.20	-	222	<0.008	-
9	37976	17	63	205	<1	3.44	-	347	<0.008	-
10	37992	54	25	91	<1	3.81	-	476	<0.008	-
11	37993	21	38	86	<1	3.59	-	528	<0.008	-
12	37994	40	56	113	<1	4.50	-	857	<0.008	<0.008
13	37995	42	21	85	<1	4.89	-	1037	<0.008	-
14	37996	42	32	106	<1	>5.00	6.26	674	<0.008	-
15	37997	38	14	86	<1	>5.00	5.31	986	<0.008	-
16	37998	36	43	110	<1	>5.00	5.33	933	<0.008	-
17	37999	15	49	135	<1	4.95	-	890	<0.008	-
18	38000	28	12	66	<1	>5.00	5.40	885	<0.008	-
19	40404	13	52	107	<1	3.84	-	257	<0.008	-
20	40405	14	29	107	<1	3.57	-	258	<0.008	-
21	40406	12	26	121	<1	3.46	-	458	<0.008	-
22	40407	18	19	93	<1	3.70	-	257	<0.008	<0.008
23	40408	16	12	56	<1	3.83	-	506	<0.008	-
24	40409	16	8	35	<1	2.91	-	494	<0.008	-
25	40410	14	11	38	<1	3.11	-	346	<0.008	-

Results in ppm unless otherwise specified
- = element not determined

IS = insufficient sample
SNR = sample not received

AUTHORISED OFFICER

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Analabs Pty. Ltd.
A.C.N. 004 591 664

782076

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10895	15/05/95	1491	2 OF 4

	SAMPLE No.	Cu	Pb	Zn	Ag	Fe	Fe	Mn	Au	Au(R)
METHOD		GA140	GA140	GA140	GA140	GA140	GA104	GA140	GG309	GG309
1	40411	20	8	30	<1	3.43	-	532	<0.008	-
2	40412	76	11	75	<1	>5.00	5.26	290	<0.008	-
3	40413	46	8	40	<1	3.33	-	357	<0.008	-
4	40414	29	8	41	<1	3.56	-	436	<0.008	-
5	40415	10	15	40	<1	3.02	-	484	<0.008	-
6	40416	17	24	57	<1	3.27	-	471	<0.008	-
7	40417	14	37	199	<1	3.15	-	598	<0.008	-
8	40418	21	50	110	<1	3.40	-	276	<0.008	-
9	40419	21	75	262	<1	3.17	-	377	<0.008	-
10	40420	31	52	164	<1	3.41	-	430	<0.008	-
11	40421	89	13	78	<1	>5.00	5.73	751	<0.008	-
12	40422	27	56	161	<1	2.95	-	273	<0.008	<0.008
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	2	3	2	1	0.01	0.01	3	0.008	0.008
25	UNITS	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm

Results in ppm unless otherwise specified
- = not determined
IS = insufficient sample
SNR = sample not received

AUTHORISED OFFICER

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Analabs Pty. Ltd.
A.C.N. 004 591 664

782077

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10895	15/05/95	1491	3 OF 4

	SAMPLE No.	Au(S)	Ba							
METHOD		GG309	GX401							
1	37968	-	1130							
2	37969	-	910							
3	37970	-	1040							
4	37971	-	1070							
5	37972	-	972							
6	37973	-	911							
7	37974	-	964							
8	37975	-	988							
9	37976	-	954							
10	37992	-	991							
11	37993	-	975							
12	37994	<0.008	1350							
13	37995	-	1450							
14	37996	-	1370							
15	37997	-	1160							
16	37998	-	1110							
17	37999	-	1110							
18	38000	-	1080							
19	40404	-	941							
20	40405	-	917							
21	40406	-	899							
22	40407	-	978							
23	40408	-	759							
24	40409	<0.008	825							
25	40410	-	908							

Results in ppm unless otherwise specified
– = element not determined
IS = insufficient sample
SNR = sample not received

AUTHORISED OFFICER

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A.C.N. 004 591 664

782078

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10895	15/05/95	1491	4 OF 4

	SAMPLE No.	Au(S)	Ba							
METHOD		GG309	GX401							
1	40411	-	976							
2	40412	-	760							
3	40413	-	820							
4	40414	-	784							
5	40415	-	826							
6	40416	-	888							
7	40417	-	852							
8	40418	-	896							
9	40419	-	883							
10	40420	-	837							
11	40421	-	636							
12	40422	-	860							
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	0.008	10							
25	UNITS	ppm	ppm							

Results in ppm unless otherwise specified
— = element not determined
IS = insufficient sample
SNR = sample not received

AUTHORISED OFFICER

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Analabs Pty. Ltd.
A.C.N. 004 591 664

782079

Phone (004) 316837	14 Thirkell St. COOEE TAS 7320	Fax (004) 318890

ANALYTICAL REPORT No. 111310.60.10872

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

INVOICE TO:
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

ORDER No.	PROJECT
1488	

DATE RECEIVED	RESULTS REQUIRED
26/04/95	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
1	09/05/95	1	8

SAMPLE NUMBERS	SAMPLE DESCRIPTION	ELEMENT/METHOD
37984/991	CD Prep : GP029 P4	Cu,Pb,Zn,Ag,Mn/GA140 Au,Au(R)/GG309 Ba/GX401

RESULTS TO:
Mr M Quayle
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

RESULTS TO:

RESULTS TO:

REMARKS

AUTHORISED OFFICER

Analabs

Analabs Pty. Ltd.

A.C.N. 004 591 664

782080

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10872	09/05/95	1488	1 OF 1

	SAMPLE No.	Cu	Pb	Zn	Ag	Mn	Au	Au(R)	Ba	
METHOD		GA140	GA140	GA140	GA140	GA140	GG309	GG309	GX401	
1	37984	24	11	56	<1	527	<0.008	–	1140	
2	37985	22	9	63	<1	696	<0.008	–	1231	
3	37986	17	21	54	<1	685	<0.008	–	1189	
4	37987	16	18	66	<1	857	<0.008	–	937	
5	37988	16	28	60	<1	597	<0.008	–	1050	
6	37989	13	51	72	<1	380	<0.008	<0.008	1435	
7	37990	11	16	37	<1	516	0.170	–	845	
8	37991	10	27	37	<1	619	<0.008	<0.008	721	
9										
10										
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12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	2	3	2	1	3	0.008	0.008	10	
25	UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	

Results in ppm unless otherwise specified
– = Element not determined

IS = Insufficient sample
SNR = sample not received

AUTHORISED

Analabs

Analabs Pty. Ltd.
A.C.N. 004 591 664

782081

Phone (004) 316837 | 14 Thirkell St. COOEE TAS 7320 | Fax (004) 318890

ANALYTICAL REPORT No. 111310.60.10815

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

INVOICE TO:
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

ORDER No.	PROJECT
01484	

DATE RECEIVED	RESULTS REQUIRED
31/03/95	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
3	20/04/95	1	7

SAMPLE NUMBERS	SAMPLE DESCRIPTION	ELEMENT/METHOD
37977/983	CO Prep : 6P029 P4	Ba,Rb,Sr,V,Nb,Y,Zr/GX401 WHOLE ROCK/OX408

RESULTS TO
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

RESULTS TO
Mr M Quayle
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

RESULTS TO

REMARKS

AUTHORISED OFFICER

Analabs

Analabs Pty. Ltd.
A.C.N. 004 591 664

782082

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10815	20/04/95	01484	1 OF 3

	SAMPLE No.	Ba	Rb	Sr	V	Nb	Y	Zr	Al2O3	SiO2
METHOD		GX401	GX401	GX401	GX401	GX401	GX401	GX401	OX408	OX408
1	37977	1133	63	330	204	6	21	134	15.70	55.30
2	37978	1287	113	125	55	10	37	240	14.80	65.60
3	37979	975	72	234	182	6	21	121	14.90	55.40
4	37980	1169	88	212	120	7	25	160	13.90	56.40
5	37981	1285	66	188	55	7	33	219	13.80	66.70
6	37982	967	48	303	186	4	19	128	15.20	57.70
7	37983	905	79	166	45	9	38	226	13.90	63.00
8										
9										
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13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	10	5	5	5	3	3	5	0.05	0.05
25	UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%

Results in ppm unless otherwise specified
– = element not determined

IS = insufficient sample
SNR = sample not received

AUTHORISED OFFICER

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Analabs Pty. Ltd.
A.C.N. 004 591 664

782083

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10815	20/04/95	01484	2 OF 3

	SAMPLE No.	TiO2	Fe2O3	MnO	CaO	K2O	MgO	P2O5	SO3	Na2O
METHOD		OX408	OX408	OX408	OX408	OX408	OX408	OX408	OX408	OX408
1	37977	0.49	7.97	0.13	5.40	2.25	2.88	0.188	0.03	3.02
2	37978	0.50	5.98	0.09	1.55	3.67	1.90	0.146	0.05	1.86
3	37979	0.45	7.79	0.11	5.49	2.58	3.54	0.183	0.02	2.42
4	37980	0.46	6.30	0.11	7.09	2.70	2.80	0.152	0.10	2.30
5	37981	0.46	4.50	0.10	2.98	2.74	1.24	0.134	0.61	3.43
6	37982	0.48	7.87	0.15	4.13	1.83	3.78	0.181	0.99	2.83
7	37983	0.47	4.95	0.13	4.29	2.99	1.33	0.140	1.51	2.13
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	0.01	0.01	0.01	0.01	0.01	0.01	0.005	0.01	0.05
25	UNITS	%	%	%	%	%	%	%	%	%

Results in ppm unless otherwise specified
– = element not determined

IS = insufficient sample
SNR = sample not received

AUTHORISED OFFICER

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Analabs Pty. Ltd.
A.C.N. 004 591 664

782084

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10815	20/04/95	01484	3 OF 3

	SAMPLE No.	LOI	Total							
METHOD		OM615	OX408							
1	37977	6.08	99.58							
2	37978	3.27	99.54							
3	37979	6.63	99.61							
4	37980	7.50	99.94							
5	37981	3.16	99.98							
6	37982	4.52	99.80							
7	37983	4.61	99.62							
8										
9										
10										
11										
12										
13										
14										
15										
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17										
18										
19										
20										
21										
22										
23										
24	DETECTION	0.01	0.01							
25	UNITS	%	%							

Results in ppm unless otherwise specified
– = element not determined

IS = insufficient sample
SNR = sample not received

AUTHORISED OFFICER

Analabs ******************************

Analabs Pty. Ltd.
A.C.N. 004 591 664

782085

Phone (004) 316837 | 14 Thirkell St. COOEE TAS 7320 | Fax (004) 318890

ANALYTICAL REPORT No. 111310.60.10906

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

INVOICE TO:
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

ORDER No.	PROJECT
1493	

DATE RECEIVED	RESULTS REQUIRED
03/05/95	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
6	23/05/95	1	24

SAMPLE NUMBERS	SAMPLE DESCRIPTION	ELEMENT/METHOD
40433-456	CO Prep : GP029	Cu,Pb,Zn,Ag,Fe,Mn/GA140 Fe/GA104 Au,Au(R),Au(S)/GG309 WHOLE ROCK/OX408 Ba,Rb,Sr,V,Nb,Y,Zr/GX401

RESULTS TO
Mr M Quayle
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

REMARKS

RESULTS TO

RESULTS TO

AUTHORISED OFFICER

Analabs

Analabs Pty. Ltd.
A.C.N. 004 591 664
782086

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10906	23/05/95	1493	1 OF 6

	SAMPLE No.	Cu	Pb	Zn	Ag	Fe	Fe	Mn	Au	Au(R)
METHOD		GA140	GA140	GA140	GA140	GA140	GA104	GA140	GG309	GG309
1	40433	13	13	29	<1	3.72	-	268	<0.008	-
2	40434	11	15	46	<1	3.85	-	218	<0.008	-
3	40435	11	13	75	<1	3.48	-	292	0.017	-
4	40436	12	16	44	<1	3.94	-	318	<0.008	-
5	40437	12	13	58	<1	3.47	-	443	<0.008	-
6	40438	13	27	57	6	3.75	-	319	<0.008	-
7	40439	16	38	64	<1	3.54	-	743	<0.008	-
8	40440	13	12	44	<1	3.00	-	394	<0.008	-
9	40441	13	21	63	<1	3.58	-	416	<0.008	-
10	40442	14	38	64	<1	3.56	-	390	<0.008	-
11	40443	14	19	69	<1	2.96	-	356	<0.008	-
12	40444	18	103	407	<1	4.20	-	639	<0.008	<0.008
13	40445	20	56	59	<1	4.36	-	552	<0.008	-
14	40446	26	98	70	3	>5.00	6.91	376	<0.008	-
15	40447	13	36	86	<1	2.91	-	731	<0.008	-
16	40448	9	61	285	<1	2.08	-	553	<0.008	-
17	40449	14	148	639	<1	2.71	-	577	<0.008	-
18	40450	11	26	142	<1	2.81	-	554	<0.008	-
19	40451	9	30	154	<1	2.93	-	738	<0.008	-
20	40452	8	38	159	<1	2.74	-	970	<0.008	-
21	40453	10	18	57	<1	2.74	-	931	<0.008	-
22	40454	10	24	58	<1	2.51	-	900	<0.008	<0.008
23	40455	9	36	92	<1	1.99	-	1077	<0.008	-
24	40456	11	139	629	<1	2.43	-	660	<0.008	-
25										

Results in ppm unless otherwise specified. IS = insufficient sample.
– = element not determined. SNR = sample not received.

AUTHORISED OFFICER

Analabs

Analabs Pty. Ltd.
A.C.N. 004 591 664

ANALYTICAL DATA

782087

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10906	23/05/95	1493	2 OF 6

	SAMPLE No.	Cu	Pb	Zn	Ag	Fe	Fe	Mn	Au	Au(R)
METHOD		GA140	GA140	GA140	GA140	GA140	GA104	GA140	GG309	GG309
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	2	3	2	1	0.01	0.01	3	0.008	0.008
25	UNITS	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm

Results in ppm unless otherwise specified — = not determined
IS = insufficient sample
SNR = sample not received

AUTHORISED OFFICER

Analabs

Analabs Pty. Ltd.
A.C.N. 004 591 664

782088

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10906	23/05/95	1493	3 OF 6

	SAMPLE No.	Au(S)	Ba	Rb	Sr	V	Nb	Y	Zr	Al2O3
METHOD		GG309	GX401	GX401	GX401	GX401	GX401	GX401	GX401	OX408
1	40433	-	731	71	120	52	10	34	217	13.20
2	40434	-	737	-	-	-	-	-	-	-
3	40435	-	566	-	-	-	-	-	-	-
4	40436	-	526	-	-	-	-	-	-	-
5	40437	-	439	-	-	-	-	-	-	-
6	40438	-	591	-	-	-	-	-	-	-
7	40439	-	739	-	-	-	-	-	-	-
8	40440	-	768	-	-	-	-	-	-	-
9	40441	-	826	-	-	-	-	-	-	-
10	40442	-	696	-	-	-	-	-	-	-
11	40443	-	787	-	-	-	-	-	-	-
12	40444	-	855	-	-	-	-	-	-	-
13	40445	-	914	-	-	-	-	-	-	-
14	40446	-	975	-	-	-	-	-	-	-
15	40447	-	720	-	-	-	-	-	-	-
16	40448	<0.008	629	-	-	-	-	-	-	-
17	40449	-	748	-	-	-	-	-	-	-
18	40450	-	673	-	-	-	-	-	-	-
19	40451	-	619	-	-	-	-	-	-	-
20	40452	-	653	-	-	-	-	-	-	-
21	40453	-	601	-	-	-	-	-	-	-
22	40454	-	608	-	-	-	-	-	-	-
23	40455	-	576	-	-	-	-	-	-	-
24	40456	<0.008	586	-	-	-	-	-	-	-
25										

Results in ppm unless otherwise specified
– = element not determined

IS = insufficient sample
SNR = sample not received

AUTHORISED OFFICER

Analabs

Analabs Pty. Ltd.
A.C.N. 004 591 664

782089

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10906	23/05/95	1493	4 OF 6

	SAMPLE No.	Au(S)	Ba	Rb	Sr	V	Nb	Y	Zr	Al2O3
METHOD		GG309	GX401	GX401	GX401	GX401	GX401	GX401	GX401	OX408
1										
2										
3										
4										
5										
6										
7										
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9										
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18										
19										
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21										
22										
23										
24	DETECTION	0.008	10	5	5	5	3	3	5	0.05
25	UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%

Results in ppm unless otherwise specified. IS = insufficient sample
— = element not determined SNR = sample not received

AUTHORISED OFFICER

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Analabs Pty. Ltd.
A.C.N. 004 591 664

782090

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10906	23/05/95	1493	5 OF 6

	SAMPLE No.	SiO2	TiO2	Fe2O3	MnO	CaO	K2O	MgO	P2O5	SO3
METHOD		OX408	OX408	OX408	OX408	OX408	OX408	OX408	OX408	OX408
1	40433	68.30	0.46	5.16	0.03	1.35	2.13	0.41	0.106	5.07
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.005	0.01
25	UNITS	%	%	%	%	%	%	%	%	%

Results in ppm unless otherwise specified
– = element not determined
IS = insufficient sample
SNR = sample not received

AUTHORISED OFFICER

Analabs

Analabs Pty. Ltd.
A.C.N. 004 591 664

782091

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10906	23/05/95	1493	6 OF 6

	SAMPLE No.	Na2O	LOI	Total						
METHOD		OX408	OX408	OX408						
1	40433	4.25	3.73	99.10						
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
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18										
19										
20										
21										
22										
23										
24	DETECTION	0.05	0.01	0.01						
25	UNITS	%	%	%						

Results in ppm unless otherwise specified. IS = insufficient sample
-- = element not determined SNP = sample not received

AUTHORISED OFFICER

VNC11+12

Analabs

Analabs Pty. Ltd.
A.C.N. 004 591 664

782092

Phone (004) 316837	14 Thirkell St. LOUEE TAS 7320	Fax (004) 319890

ANALYTICAL REPORT No. LL1510.60.10661

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

INVOICE TO:
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

ORDER No.	PROJECT
0142	3003

DATE RECEIVED	RESULTS REQUIRED
18/01/95	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
3	10/02/95	1	10

SAMPLE NUMBERS	SAMPLE DESCRIPTION	ELEMENT/METHOD
39337-339,39816-822	CO Prep : GP029 P1	Cu,Pb,Zn,Ag,Mn/GA140
		Au/GG309
		Ba,Rb,Sr,V,Nb,Y,Zr/GX401
		WHOLE ROCK/DX406

RESULTS TO
Mr M Quayle
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

REMARKS

RESULTS TO

RESULTS TO

AUTHORISED OFFICER

Analabs

Analabs Pty. Ltd.
A.C.N. 004 591 664

782093

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.80.10681	10/02/95	0142	1 OF 3

	SAMPLE No.	Cu	Pb	Zn	Ag	Mn	Au	Ba	Rb	Sr
METHOD		GA140	GA140	GA140	GA140	GA140	GG309	GX401	GX401	GX401
1	39337	-	-	-	-	-	-	-	41	668
2	39338	-	-	-	-	-	-	-	129	131
3	39339	-	-	-	-	-	-	-	140	153
4	39816	-	-	-	-	-	-	-	67	248
5	39817	26	308	88	<1	243	<0.008	1148	-	-
6	39818	-	-	-	-	-	-	-	43	517
7	39819	-	-	-	-	-	-	-	62	470
8	39820	74	226	1982	<1	740	0.024	1138	-	-
9	39821	58	146	791	<1	604	0.010	1174	-	-
10	39822	-	-	-	-	-	-	-	98	207
11										
12										
13										
14										
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16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	2	3	2	1	3	0.008	10	5	5
25	UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Results in ppm unless otherwise specified
- = element not determined

IS = insufficient sample
SNR = sample not received

AUTHORISED OFFICER

Analabs

Analabs Pty. Ltd.
A.C.N. 004 591 664

782094

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10661	10/02/95	0142	2 OF 3

	SAMPLE No.	V	Nb	Y	Zr	Al2O3	SiO2	TiO2	Fe2O3	MnO
METHOD		GX401	GX401	GX401	GX401	OX408	OX408	OX408	OX408	OX408
1	39337	294	<3	26	104	66.30	0.49	4.91	0.07	3.25
2	39338	8	14	39	348	13.20	71.60	0.36	3.69	0.06
3	39339	19	13	38	351	14.00	71.00	0.36	3.30	0.05
4	39816	293	4	26	90	15.70	45.20	0.78	10.80	0.16
5	39818	130	6	23	195	11.50	55.40	0.41	5.04	0.13
6	39819	162	9	25	245	13.30	58.10	0.52	6.47	0.10
7	39822	49	12	37	248	14.40	66.30	0.49	4.91	0.07
8										
9										
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11										
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21										
22										
23										
24	DETECTION	5	3	3	5	0.05	0.05	0.01	0.01	0.01
25	UNITS	ppm	ppm	ppm	ppm	%	%	%	%	%

Results in ppm unless otherwise specified
– = element not determined

IS = insufficient sample
SNR = sample not received

AUTHORISED OFFICER

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Analabs Pty. Ltd.
A.C.N. 004 591 664

782095

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10661	10/02/95	0142	3 OF 3

	SAMPLE No.	CaO	K2O	MgO	P2O5	SO3	Na2O	LOI	TOTAL
METHOD		OX408	OX408	OX408	OX408	OX408	OX408	OM615	OX408
1	39337	3.33	0.72	0.14	0.010	2.51	4.14	13.93	99.80
2	39338	1.37	2.56	1.74	0.053	<0.01	1.60	3.49	99.80
3	39339	1.64	2.78	1.59	0.062	0.05	1.91	3.42	100.25
4	39816	9.67	2.04	3.33	0.133	0.01	1.84	10.56	100.17
5	39818	11.30	0.99	1.69	0.304	0.02	3.36	9.53	99.80
6	39819	6.24	2.83	2.74	0.397	<0.01	3.11	5.89	99.70
7	39822	3.25	3.33	0.72	0.141	0.01	2.51	4.14	100.21
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24	DETECTION	0.01	0.01	0.01	0.005	0.01	0.05	0.01	0.01
25	UNITS	%	%	%	%	%	%	%	%

Results in ppm unless otherwise specified
-- = element not determined

IS = insufficient sample
SNR = sample not received

AUTHORISED OFFICER

WHITE SPUR - CVC CONTACT
YOLANDE

Analabs

Analabs Pty. Ltd.
A.C.N. 004 591 664

782096

Phone (004) 316837	14 Thirkell St, COOEE TAS 7320	Fax (004) 318890

ANALYTICAL REPORT No. 111310.60.10505

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

INVOICE TO:
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

ORDER No.	PROJECT
1468	3003

DATE RECEIVED	RESULTS REQUIRED
02/11/94	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
3	21/11/94	1	13

SAMPLE NUMBERS	SAMPLE DESCRIPTION	ELEMENT/METHOD
37924/37936	RO Prep : GP029	Cu,Pb,Zn,Ag,Mn/GA140 Rb,Sr,V,Nb,Y,Zr/GX401 WHOLE ROCK/GX40B

RESULTS TO
Mr F Fitzgerald
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

RESULTS TO
Mr M Quayle
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

RESULTS TO

REMARKS

AUTHORISED OFFICER

Analabs Pty. Ltd.
A.C.N. 004 591 664

Analabs

782097

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10505	21/11/94	1468	1 OF 3

	SAMPLE No.	Cu	Pb	Zn	Ag	Mn	Rb	Sr	V	Nb
METHOD		GA140	GA140	GA140	GA140	GA140	GX401	GX401	GX401	GX401
1	37924	6	8	41	<1	45	226	23	28	15
2	37925	21	236	105	<1	132	201	20	42	13
3	37926	10	13	37	<1	145	79	198	20	14
4	37927	4	5	32	<1	99	153	155	13	15
5	37928	5	9	37	<1	213	152	302	30	12
6	37929	4	13	34	<1	160	158	243	22	15
7	37930	5	29	41	<1	20	188	101	<5	12
8	37931	5	6	41	<1	241	172	268	31	14
9	37932	5	8	44	<1	488	175	359	31	14
10	37933	12	15	85	<1	269	122	200	45	15
11	37934	10	18	39	<1	148	209	133	<5	12
12	37935	5	30	38	<1	75	16	170	<5	12
13	37936	24	37	148	<1	924	75	124	87	13
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	2	3	2	1	3	5	5	5	3
25	UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Results in ppm unless otherwise specified
-- = element not determined
IS = insufficient sample
SNR = sample not received

AUTHORISED OFFICER

Analabs

Analabs Pty. Ltd.
A.C.N. 004 591 664

782098

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10505	21/11/94	1468	2 OF 3

	SAMPLE No.	Y	Zr	Al2O3	SiO2	TiO2	Fe2O3	MnO	CaO	K2O
METHOD		GX401	GX401	OX408	OX408	OX408	OX408	OX408	OX408	OX408
1	37924	40	299	16.27	71.00	0.57	2.68	0.02	0.01	4.56
2	37925	72	283	17.10	65.70	0.56	5.62	0.03	0.02	3.65
3	37926	29	246	11.04	78.60	0.41	1.68	0.02	0.87	1.84
4	37927	32	289	11.77	77.10	0.45	1.74	0.02	0.43	3.94
5	37928	27	248	13.72	73.10	0.51	2.62	0.04	1.85	3.29
6	37929	27	261	10.60	78.50	0.53	1.84	0.04	1.45	3.45
7	37930	17	94	12.57	77.30	0.11	0.25	<0.01	0.01	6.01
8	37931	33	268	14.95	69.70	0.55	3.00	0.04	1.68	4.04
9	37932	46	268	13.97	70.70	0.51	3.67	0.10	3.62	3.23
10	37933	38	271	14.61	71.30	0.52	3.27	0.04	0.96	2.71
11	37934	26	72	9.47	80.60	0.03	1.16	0.02	0.12	6.33
12	37935	61	111	12.42	79.40	0.10	0.37	0.01	0.21	0.45
13	37936	30	159	12.34	55.90	0.62	6.77	0.13	2.86	2.45
14										
15										
16										
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18										
19										
20										
21										
22										
23										
24	DETECTION	3	5	0.05	0.05	0.01	0.01	0.01	0.01	0.01
25	UNITS	ppm	ppm	%	%	%	%	%	%	%

Results in ppm unless otherwise specified. IS = insufficient sample
-- = element not determined [illegible] SNR = sample not received

AUTHORISED

Analabs

Analabs Pty. Ltd.
A.C.N. 004 591 664

782099

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10505	21/11/94	1468	3 OF 3

	SAMPLE No.	MgO	P205	S03	Na20	LOI	Total			
METHOD		OX408	OX408	OX408	OX408	OM615	OX408			
1	37924	0.59	0.033	<0.01	0.07	3.95	99.80			
2	37925	0.86	0.141	<0.01	0.05	6.14	100.00			
3	37926	0.38	0.058	0.01	3.36	1.56	99.80			
4	37927	0.37	0.035	0.01	1.92	2.01	99.90			
5	37928	0.44	0.069	<0.01	2.31	1.79	99.80			
6	37929	0.31	0.030	0.01	1.46	1.43	99.70			
7	37930	0.01	0.010	0.01	0.59	2.72	99.60			
8	37931	0.77	0.087	0.01	2.13	2.73	99.70			
9	37932	0.90	0.088	<0.01	1.45	2.05	100.30			
10	37933	0.84	0.019	<0.01	2.48	3.02	99.70			
11	37934	0.02	0.011	0.54	1.13	0.32	99.80			
12	37935	0.04	0.010	0.01	6.17	0.64	99.80			
13	37936	9.08	0.068	0.03	0.97	8.47	99.80			
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	0.01	0.005	0.01	0.05	0.01	0.01			
25	UNITS	%	%	%	%	%	%			

Results in ppm unless otherwise specified
-- = element not determined

IS = insufficient sample
SNR = sample not received

AUTHORISED OFFICER

Analabs ******************************

Analabs Pty
A.C.N. 00

782100

Phone (004) 316837

14 Thirkell St. COOEE TAS 7320

Fax (004) 318890

ANALYTICAL REPORT No. 111310.60.10506

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

INVOICE TO:

Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

ORDER No.	PROJECT
1471	3003

DATE RECEIVED	RESULTS REQUIRED
02/11/94	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
3	21/11/94	1	3

SAMPLE NUMBERS	SAMPLE DESCRIPTION	ELEMENT/METHOD
37938/940	RO Prep : GP029	Cu,Pb,Zn,Ag,Mn/GA140 Au,Au(R)/GG309 Ba,Rb,Sr,V,Nb,Y,Zr/GX401 WHOLE ROCK/OX408

RESULTS TO

Mr F Fitzgerald
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

RESULTS TO

Mr M Quayle
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

RESULTS TO

REMARKS

AUTHORISED OFFICER

Analalabs

Analabs Pty. L

A.C.N. 004 5

782101

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10506	21/11/94	1471	1 OF 3

	SAMPLE No.	Cu	Pb	Zn	Ag	Mn	Au	Au(R)	Ba	Rb
METHOD		GA140	GA140	GA140	GA140	GA140	GG309	GG309	GX401	GX401
1	37938	123	36	137	<1	798	0.013	-	1140	66
2	37939	13	337	53	<1	176	<0.008	-	1570	125
3	37940	13	25	77	<1	2592	<0.008	<0.008	565	-
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23										
24	DETECTION	2	3	2	1	3	0.008	0.008	10	5
25	UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Results in ppm unless otherwise specified [illegible] IS = insufficient sample

– = element not determined [illegible] = sample not received

AUTHORISED OFFICER

Analabs

Analabs Pty. L
A.C.N. 004 59

782102

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10506	21/11/94	1471	2 OF 3

	SAMPLE No.	Sr	V	Nb	Y	Zr	Al2O3	SiO2	TiO2	Fe2O3
METHOD		GX401	GX401	GX401	GX401	GX401	OX408	OX408	OX408	OX408
1	37938	170	95	9	24	173	13.07	60.20	0.41	6.28
2	37939	130	38	11	28	218	13.26	73.10	0.43	2.84
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24	DETECTION	5	5	3	3	5	0.05	0.05	0.01	0.01
25	UNITS	ppm	ppm	ppm	ppm	ppm	%	%	%	%

Results in ppm unless otherwise specified
-- = element not determined
IS = insufficient sample
SNR = sample not received

AUTHORISED OFFICER

Analabs

Analabs Pty. Ltd
A.C.N. 004 591 664

782103

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10506	21/11/94	1471	3 OF 3

	SAMPLE No.	MnO	CaO	K2O	MgO	P2O5	SO3	Na2O	LOI	Total
METHOD		OX408	OX408	OX408	OX408	OX408	OX408	OX408	OM615	OX408
1	37938	0.11	5.71	2.45	1.81	0.159	0.80	3.06	5.80	99.90
2	37939	0.02	0.27	4.20	0.75	0.118	0.39	2.36	1.94	99.70
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13										
14										
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23										
24	DETECTION	0.01	0.01	0.01	0.01	0.005	0.01	0.05	0.01	0.01
25	UNITS	%	%	%	%	%	%	%	%	%

...lts in ppm unless otherwise specified
...ment not determined

IS = insufficient sample
SNR = sample not received

AUTHORISED OFFICER

YNC 10 NEWTON CK

Analabs ******************************

Analabs Pty. Ltd.
A.C.N. 004 591 664

782104

Phone (004) 316837 | 14 Thirkell St. COOEE TAS 7320 | Fax (004) 318890

ANALYTICAL REPORT No. 111310.60.10493

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

INVOICE TO:
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

ORDER No.	PROJECT
1467	

DATE RECEIVED	RESULTS REQUIRED
27/10/94	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
6	18/11/94	1	38

SAMPLE NUMBERS	SAMPLE DESCRIPTION	ELEMENT/METHOD
38723/750.38565/574	CD Prep : GP029 P1	Cu,Pb,Zn,Ag,Fe,Mn/GA140 Au,Au(R),Au(S)/GG309 WHOLE ROCK/GX408 Ba,Rb,Sr,V,Nb,Y,Zr/GX401 Pb,Zn,Ag,Fe,Mn/GA104

RESULTS TO:
Mr F Fitzgerald
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

RESULTS TO:
Mr M Quayle
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

RESULTS TO:

REMARKS

AUTHORISED OFFICER

Analabs

Analabs Pty. Ltd.
A.C.N. 004 591 664

782105

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10493	18/11/94	1467	1 OF 6

	SAMPLE No.	Cu	Pb	Zn	Zn	Ag	Ag	Fe	Fe	Mn
METHOD		GA140	GA140	GA140	GA104	GA140	GA104	GA140	GA104	GA140
1	38723	106	586	772	-	2	-	>5.00	7.79	1478
2	38724	19	27	90	-	<1	-	3.08	-	553
3	38725	44	194	234	-	1	-	3.70	-	1451
4	38726	58	405	331	-	1	-	2.04	-	1950
5	38727	71	262	505	-	1	-	3.17	-	>5000
6	38728	41	557	1109	-	<1	-	2.90	-	>5000
7	38729	53	464	990	-	<1	-	3.68	-	>5000
8	38730	177	4968	3004	-	2	-	4.04	-	>5000
9	38731	20	770	290	-	1	-	3.64	-	>5000
10	38732	15	753	1090	-	1	-	2.84	-	>5000
11	38733	95	943	>5000	0.83	4	-	3.18	-	>5000
12	38734	16	523	1053	-	1	-	3.65	-	>5000
13	38735	8	70	613	-	<1	-	3.42	-	>5000
14	38736	12	1194	2495	-	1	-	4.96	-	>5000
15	38737	2	105	213	-	<1	-	3.79	-	4766
16	38738	3	73	201	-	<1	-	3.03	-	2742
17	38739	13	382	666	-	2	-	1.95	-	1849
18	38740	30	739	1835	-	8	-	1.22	-	1161
19	38741	50	2137	>5000	0.55	>50	78	1.21	-	1811
20	38742	25	863	1012	-	50	-	1.49	-	1234
21	38743	9	254	845	-	<1	-	3.10	-	>5000
22	38744	43	270	150	-	3	-	2.02	-	1527
23	38745	28	66	132	-	1	-	2.32	-	1230
24	38746	245	2422	4548	-	3	-	2.95	-	2462
25	38747	13	32	132	-	<1	-	2.30	-	788

Results in ppm unless otherwise specified
- = element not determined
IS = Insufficient sample
SNR = sample not received

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A.C.N. 004 591 664

782106

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10493	18/11/94	1467	2 OF 6

	SAMPLE No.	Cu	Pb	Zn	Zn	Ag	Ag	Fe	Fe	Mn
METHOD		GA140	GA140	GA140	GA104	GA140	GA104	GA140	GA104	GA140
1	38748	16	16	71	–	<1	–	2.03	–	772
2	38749	4	10	64	–	<1	–	1.87	–	531
3	38750	4	6	74	–	<1	–	2.49	–	827
4	38565	18	175	125	–	<1	–	1.81	–	1415
5	38566	23	48	68	–	<1	–	0.91	–	1695
6	38567	6	10	38	–	<1	–	1.24	–	1768
7	38568	17	38	111	–	<1	–	3.59	–	1117
8	38569	8	4	154	–	<1	–	>5.00	5.08	754
9	38570	83	5	90	–	<1	–	3.92	–	2017
10	38571	53	5	260	–	<1	–	>5.00	5.69	1098
11	38572	164	10	77	–	<1	–	2.84	–	1245
12	38573	13	3	77	–	<1	–	3.43	–	1143
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	2	3	2	0.01	1	1	0.01	0.01	3
25	UNITS	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm

Results in ppm unless otherwise specified
– = [illegible]

IS = insufficient sample
SNR = sample not received

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782107

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10493	18/11/94	1467	3 OF 6

	SAMPLE No.	Mn	Au	Au(R)	Au(S)	Ba	Rb	Sr	V	Nb
METHOD		GA104	GG309	GG309	GG309	GX401	GX401	GX401	GX401	GX401
1	38723	-	0.011	-	-	1200	-	-	-	-
2	38724	-	0.010	-	-	815	-	-	-	-
3	38725	-	<0.008	-	-	630	-	-	-	-
4	38726	-	0.012	-	-	1350	-	-	-	-
5	38727	0.85	0.033	-	-	1180	-	-	-	-
6	38728	1.08	0.008	-	-	1020	180	29	72	11
7	38729	0.84	0.015	-	-	2630	-	-	-	-
8	38730	1.91	0.031	-	-	2620	-	-	-	-
9	38731	1.20	<0.008	-	-	1350	177	60	50	11
10	38732	0.98	0.012	-	0.008	1140	-	-	-	-
11	38733	1.26	0.022	-	-	1800	-	-	-	-
12	38734	1.45	0.013	0.017	-	1690	-	-	-	-
13	38735	0.69	<0.008	-	-	1260	-	-	-	-
14	38736	1.34	<0.008	-	-	1340	-	-	-	-
15	38737	-	<0.008	-	-	885	-	-	-	-
16	38738	-	<0.008	-	-	1080	192	60	56	14
17	38739	-	0.015	-	-	1220	-	-	-	-
18	38740	-	0.021	-	-	1460	-	-	-	-
19	38741	-	0.039	-	-	1270	-	-	-	-
20	38742	-	<0.008	-	-	1940	162	75	51	13
21	38743	1.14	<0.008	-	-	1960	-	-	-	-
22	38744	-	<0.008	<0.008	-	2670	-	-	-	-
23	38745	-	<0.008	-	-	895	-	-	-	-
24	38746	-	0.416	-	-	950	-	-	-	-
25	38747	-	<0.008	-	-	1040	155	42	20	13

Results in ppm unless otherwise specified
– = element not determined

IS = insufficient sample
SNR = sample not received

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782108

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10493	18/11/94	1467	4 OF 6

	SAMPLE No.	Mn	Au	Au(R)	Au(S)	Ba	Rb	Sr	V	Nb
METHOD		GA104	GG309	GG309	GG309	GX401	GX401	GX401	GX401	GX401
1	38748	-	<0.008	-	-	1160	124	47	14	11
2	38749	-	<0.008	-	-	800	164	43	14	15
3	38750	-	<0.008	-	-	1060	140	80	16	14
4	38565	-	<0.008	-	-	400	-	-	-	-
5	38566	-	<0.008	-	-	129	-	-	-	-
6	38567	-	<0.008	-	-	79	-	-	-	-
7	38568	-	<0.008	-	-	1390	-	-	-	-
8	38569	-	<0.008	-	-	1340	-	-	-	-
9	38570	-	<0.008	-	-	510	-	-	-	-
10	38571	-	<0.008	-	-	665	-	-	-	-
11	38572	-	<0.008	-	-	685	-	-	-	-
12	38573	-	<0.008	<0.008	<0.008	1700	-	-	-	-
13	38574	-	-	-	-	-	148	136	9	14
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	0.01	0.008	0.008	0.008	10	5	5	5	3
25	UNITS	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Results in ppm unless otherwise specified. IS = insufficient sample
– = element not determined NR = sample not received

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782169

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10493	18/11/94	1467	5 OF 6

	SAMPLE No.	Y	Zr	Al2O3	SiO2	TiO2	Fe2O3	MnO	CaO	K2O
METHOD		GX401	GX401	OX408	OX408	OX408	OX408	OX408	OX408	OX408
1	38728	30	222	13.97	66.40	0.48	4.31	1.38	1.44	4.26
2	38731	38	238	14.39	63.90	0.49	5.31	1.44	1.99	5.17
3	38738	40	276	16.77	62.70	0.56	4.40	0.44	2.33	5.79
4	38742	35	283	16.81	64.90	0.57	2.56	0.19	2.45	4.39
5	38747	36	340	13.87	70.60	0.36	3.39	0.11	1.75	3.42
6	38748	38	307	12.97	69.90	0.33	2.82	0.11	2.30	2.97
7	38749	39	342	13.78	69.50	0.36	2.83	0.08	2.10	3.66
8	38750	38	305	12.76	67.90	0.33	3.76	0.12	3.01	3.11
9	38574	35	267	13.55	71.00	0.31	2.05	0.11	2.29	3.81
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	3	5	0.05	0.05	0.01	0.01	0.01	0.01	0.01
25	UNITS	ppm	ppm	%	%	%	%	%	%	%

Results in ppm unless otherwise specified
— = element not determined

IS = Insufficient sample
SNR = sample not received

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782110

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10493	18/11/94	1467	6 OF 6

	SAMPLE No.	MgO	P2O5	SO3	Na2O	LOI	TOTAL			
METHOD		OX408	OX408	OX408	OX408	OM615	OX408			
1	38728	0.80	0.144	0.47	0.17	5.78	99.60			
2	38731	0.57	0.146	0.34	0.31	5.96	100.01			
3	38738	0.62	0.139	0.07	0.65	5.51	99.98			
4	38742	0.45	0.157	0.77	2.66	3.95	101.49			
5	38747	1.20	0.058	0.11	1.43	3.49	99.79			
6	38748	1.14	0.054	0.05	1.60	5.47	99.71			
7	38749	1.07	0.051	0.06	1.22	5.08	99.79			
8	38750	1.50	0.053	0.02	1.75	5.56	99.87			
9	38574	0.92	0.047	0.04	1.37	4.36	99.86			
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	0.01	0.005	0.01	0.05	0.01	0.01			
25	UNITS	%	%	%	%	%	%			

Results in [illegible] — = element [illegible] IS = insufficient sample SNR = sample not received

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Yolande: White Spur/Newton Ck
lithogeochem

Analabs

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782111

Phone (004) 316837 | 14 Thirkell St. COOEE TAS 7320 | Fax (004) 318890

ANALYTICAL REPORT No. 111310.60.10382

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

INVOICE TO:
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

ORDER No.	PROJECT
1456	3003

DATE RECEIVED	RESULTS REQUIRED
25/08/94	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
4	20/09/94	1	18

SAMPLE NUMBERS	SAMPLE DESCRIPTION	ELEMENT/METHOD
37908/913,37903,37907,37914/923	RO Prep : GP029 P4	Cu,Pb,Zn,Ag,Fe,Mn/GA140 Fe/GA104 Au,Au(R),Au(S)/GG309 Whole Rock/OX408 Ba,Rb,Sr,V,Nb,Y,Zr/GX401

RESULTS TO: X
Mr F Fitzgerald
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

RESULTS TO:
Mr M Quayle
Pasminco Exploration
P.O. Box 886
BURNIE TAS 7320

RESULTS TO:

REMARKS

M.U. Good
PP Keith Hand
AUTHORISED OFFICER

Analalabs

Analabs Pty. Ltd.
A.C.N. 004 591 664

782112

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10382	20/09/94	1456	1 OF 4

	SAMPLE No.	Cu	Pb	Zn	Ag	Fe	Fe	Mn	Au	Au(R)
METHOD		GA140	GA140	GA140	GA140	GA140	GA104	GA140	GG309	GG309
1	37908	9	37	43	<1	1.69	–	214	0.014	–
2	37909	21	256	166	<1	2.59	–	52	0.010	–
3	37910	42	68	84	<1	>5.00	5.82	168	0.008	–
4	37911	39	16	100	<1	>5.00	7.09	349	<0.008	–
5	37912	9	34	96	<1	>5.00	7.24	146	<0.008	–
6	37913	9	<3	18	<1	3.05	–	73	<0.008	–
7	37903	28	<3	127	<1	>5.00	6.46	1031	<0.008	–
8	37907	7	8	61	<1	1.75	–	129	<0.008	–
9	37914	10	<3	116	<1	3.20	–	285	<0.008	–
10	37915	10	<3	35	<1	2.24	–	590	<0.008	–
11	37916	13	72	779	<1	1.89	–	416	<0.008	–
12	37917	8	164	78	<1	1.52	–	49	<0.008	<0.008
13	37918	17	52	335	<1	2.75	–	139	<0.008	–
14	37919	14	7	59	<1	1.39	–	37	<0.008	–
15	37920	36	179	110	<1	1.44	–	42	<0.008	–
16	37921	7	10	41	<1	1.28	–	148	<0.008	–
17	37922	16	12	33	<1	0.19	–	15	<0.008	–
18	37923	19	337	393	<1	1.53	–	20	0.008	–
19										
20										
21										
22										
23										
24	DETECTION	2	3	2	1	0.01	0.01	3	0.008	0.008
25	UNITS	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm

Results in ppm unless otherwise specified
– = element not determined
IS = insufficient sample
SNR = sample not received

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782113

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10382	20/09/94	1456	2 OF 4

	SAMPLE No.	Au(S)	Ba	Rb	Sr	V	Nb	Y	Zr	Al2O3
METHOD		GG309	GX401	GX401	GX401	GX401	GX401	GX401	GX401	OX408
1	37908	-	184	-	-	-	-	-	-	-
2	37909	-	507	-	-	-	-	-	-	-
3	37910	-	845	-	-	-	-	-	-	-
4	37911	-	1047	-	-	-	-	-	-	-
5	37912	-	2696	-	-	-	-	-	-	-
6	37913	-	53	-	-	-	-	-	-	-
7	37903	-	725	108	22	213	8	17	158	13.76
8	37907	-	1630	130	87	6	16	32	215	10.91
9	37914	-	927	135	27	38	11	29	259	14.83
10	37915	-	300	121	22	52	8	28	157	11.36
11	37916	-	189	52	14	16	7	24	109	7.19
12	37917	-	433	134	23	13	12	28	244	12.44
13	37918	-	1248	128	28	42	12	29	259	14.98
14	37919	-	805	170	13	43	13	32	280	15.93
15	37920	-	581	75	23	44	17	38	290	19.19
16	37921	-	1891	151	314	6	11	29	142	13.42
17	37922	-	658	143	86	34	12	24	242	13.21
18	37923	0.010	896	113	244	32	12	33	267	15.15
19										
20										
21										
22										
23										
24	DETECTION	0.008	10	5	5	5	3	5	5	0.05
25	UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%

Results in ppm unless otherwise specified
- = element not determined

IS = insufficient sample
SNR = sample not received

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782114

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10382	20/09/94	1456	3 OF 4

	SAMPLE No.	SiO2	TiO2	Fe2O3	MnO	CaO	K2O	MgO	P2O5	SO3
METHOD		OX408	OX408	OX408	OX408	OX408	OX408	OX408	OX408	OX408
1	37903	67.3	0.67	8.33	0.13	0.02	2.73	2.03	0.037	0.16
2	37907	76.1	0.18	2.36	0.02	0.02	5.08	0.56	0.014	0.02
3	37914	69.0	0.51	5.15	0.04	0.19	4.22	0.87	0.139	0.05
4	37915	75.0	0.30	3.24	0.07	1.19	3.17	0.97	0.080	0.10
5	37916	84.3	0.16	2.46	0.05	0.33	1.23	0.45	0.041	0.81
6	37917	76.8	0.28	2.25	0.01	0.01	3.12	0.51	0.032	0.60
7	37918	69.0	0.52	4.50	0.02	0.10	4.11	0.82	0.142	1.84
8	37919	71.3	0.56	2.22	0.01	0.08	4.92	0.66	0.084	0.81
9	37920	66.4	0.57	2.24	0.01	<0.01	1.66	0.45	0.020	0.03
10	37921	74.6	0.13	1.74	0.03	0.08	5.55	0.21	0.012	0.04
11	37922	79.1	0.44	0.28	0.01	0.03	3.87	0.47	0.061	0.02
12	37923	72.2	0.52	2.25	0.01	0.13	2.56	0.36	0.091	0.44
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	0.1	0.01	0.01	0.01	0.01	0.01	0.01	0.005	0.01
25	UNITS	%	%	%	%	%	%	%	%	%

Results in ppm unless otherwise specified
– = element not determined

IS = insufficient sample
SNR = sample not received

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A.C.N. 004 591 664

782115

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	111310.60.10382	20/09/94	1456	4 OF 4

	SAMPLE No.	Na2O	LOI	TOTAL						
METHOD		OX408	OM615	OX408						
1	37903	1.54	3.06	99.83						
2	37907	1.55	1.29	98.18						
3	37914	1.70	3.00	99.77						
4	37915	0.11	4.47	100.08						
5	37916	0.07	3.00	100.21						
6	37917	1.75	2.17	99.96						
7	37918	1.73	3.18	100.97						
8	37919	0.14	3.26	99.96						
9	37920	0.16	9.09	99.83						
10	37921	3.22	0.79	99.82						
11	37922	0.26	2.07	99.81						
12	37923	4.13	1.87	99.80						
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	DETECTION	0.05	0.01	0.01						
25	UNITS	%	%	%						

Results in ppm unless otherwise specified
- = element not determined
IS = insufficient sample
SNR = sample not received

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APPENDIX 2

Sample Record Sheet

782... A

FORMATIONS

TG	Tyndall Group
AA	Anthony Road Andesites
NCD	Newton Creek Dacites
NCS	Newton Creek Spillway
NCF	Newton Creek Footwall
CVC	Central Volcanic Complex
HFW	Henty Fault Wedge
WSF	White Spur Formation
YRS	Yolande River Sequence

LITHOLOGIES

Lavas	L	a	acid
Intrusives	I	i	intermediate
or Volcaniclastics	V	b	basic
		u	ultrabasic
		r	rhyolite
		d	dacite
		n	andesite
		ba	basalt
		g	granite
		di	diorite
		do	dolerite
		gb	gabbro
		s	serpentinite

Sediments	S	bsh	black shale
or Volcaniclastics	V	sh	shale
		slt	siltstone
		sst	sandstone
		w	greywacke
		cong	conglomerate
		bx	breccia
		tbd	turbidite
		msf	mass flow
		cht	chert
		lst	limestone
		dol	dolomite
		Fe	iron formation
		gl	glacial deposits
		fgl	fluvioglacial deposits
		alv	alluvial deposits
		cvl	colluvial deposits (talus)
		qzt	quartzite

Metamorphic and Tectonic Rocks	M	sht	schist
		qzt	quartzite
		hf	hornfels
		sk	skarn
		mb	marble
		m	mylonite
		fz	fault breccia (pug)

Unassigned	?	Use alone or as a qualifier to other rock types where uncertain

PASMINCO EXPLORATION
A Division of Pasminco Australia Limited

COMPILED : P.M.Q.	YOLANDE
DATE : June 1994	FORMATION AND LITHOLOGY CODES
DRAWN : G.M.B.	
REFERENCE :	
REVISIONS :	
DRAWING No. Y_FLCODE	SCALE	FIG. No.

782117

YOLANDE EL 11/85
LITHOGEOCHEMISTRY LOCATIONS 1994 - 1995

sample	east/DDH	north/depth	formation	lithology
37903	379309	5360422	NCF	Lba
37907	379815	5360987	TG	Lr
37914	379367	5360200	?	?
37915	379304	5360260	?	?
37916	379306	5360300	?	?
37917	379290	5360360	?	?
37918	379316	5360418	NCD	?
37919	379324	5360200	?	?
37920	376650	5362110	CVC	?
37921	376970	5361100	WSF	?
37922	376788	5361460	CVC	?
37923	376930	5361410	CVC	?
37924	377260	5362930	CVC	Vpm
37925	377150	5362120	CVC	Vpm
37926	377230	5361810	CVC	Vpm
37927	377460	5362150	CVC	Vpm
37928	377070	5363670	CVC	Vpm
37929	377230	5362400	CVC	Vpm
37930	377200	5362860	WSF	Ipor
37931	377330	5362060	CVC	Vpm
37932	377360	5361800	CVC	Vpm
37933	377230	5362100	CVC	Vpm
37934	377165	5362325	CVC	Vpm
37935	377160	5362320	WSF	Ipor
37936	375050	5360180	WSF	Ssst
37938	379715	5358227		
37939	379775	5358192		
37977	YNC13	13.70	AA	Ln
37978	YNC13	64.50	NCD	Ld
37979	YNC13	151.40	AA	Ln
37980	YNC13	249.40	AA	Ln
37981	YNC13	310.00	NCD	Ld
37982	YNC13	381.10	AA	Ln
37983	YNC13	419.40	NCD	Ld
38728	YNC10	284.60	NCD	a/z
38731	YNC10	354.60	NCD	Ld
38738	YNC10	389.80	NCD	Ld
38742	YNC10	431.80	NCD	Ld
38747	YNC10	488.90	NCF	pmf
38748	YNC10	500.70	NCF	pmf
38749	YNC10	514.70	NCF	pmf
38750	YNC10	528.10	NCF	pmf
39337	YNC11	89.30	NCF	Lb
39338	YNC11	124.90	NCF	pmf

39339	YNC11	145.80	NCF	pmf
39645	YNC12	566.30	NCD	Ld
39816	YNC12	8.50	AA	Lba
39818	YNC12	123.90	AA	Ln
39819	YNC12	216.60	AA	Ln
39822	YNC12	323.70	NCD	Ld
40423	YNC14	65.70	NCD	Ld
40433	YNC14	111.00	NCD	Ld

782119

Appendix 3

Yolande DDH Collar Coordinates & Downhole Surveys

782120

YOLANDE EL 11/85
DIAMOND DRILL HOLE COLLAR LOCATIONS 1994 - 1995

HOLE	AMG_E	AMG_N	RL	EOH
YHV2	375435.00	5351400.00	120.00	163.5
YNC1	379662.00	5357909.00	512.50	61.2
YNC10	379949.00	5360116.00	514.50	529.7
YNC11	379982.20	5359395.70	514.90	151.3
YNC12	379836.50	5357766.00	497.10	577.0
YNC13	379697.20	5357479.00	502.60	507.0
YNC14	379478.80	5360809.30	525.90	163.0
YNC15	379278.90	5360815.60	516.60	163.0
YNC16	379850.40	5360863.60	541.80	250.0

YOLANDE EL 11/85 ALL COLLAR LOCATIONS

HOLE	AMG_E	AMG_N	RL	EOH
BR1	374929.50	5350434.00	272.40	502.0
DCP235	376244.00	5363466.00	732.00	161.4
HA1				
HA2				
HA3				
HA4				
HA5				
HA6				
HA7	380617.00	5358501.00	458.30	233.5
HA8	380624.00	5358621.00	472.80	270.0
HEC3091	380481.80	5358768.00	477.80	20.1
HEC3181	380075.15	5358434.28	462.46	18.3
HEC3183	380068.70	5358424.10	466.55	20.5
HEC3185	380008.10	5358546.05	462.81	17.6
HEC3187	380498.86	5358669.92	469.88	20.5
HEC3190	380419.30	5358725.82	471.58	20.1
HEC3193	380400.57	5358823.64	475.26	20.2
HFZ1				
HFZ10	379918.96	5363725.72	594.97	250.2
HFZ11	380108.02	5363990.25	585.61	88.2
HFZ12	379810.00	5363504.30	587.20	469.5
HFZ2				
HFZ3	379797.50	5362917.80	547.30	552.0
HFZ4	379710.40	5362717.20	546.50	708.0
HFZ5				
HFZ6	380030.50	5363801.20	587.19	523.0
HFZ7	379750.00	5362195.00		260.6
HFZ8	379500.00	5361905.00	517.00	233.2
HFZ9	379884.66	5363838.14	616.92	268.0
HR1	377895.00	5354674.00	132.00	371.0
HR2	377686.00	5354360.00	126.00	230.5
HR3	377946.00	5354864.00	136.00	616.7
HR4	377420.00	5355010.00	445.00	310.0
HR5	377421.00	5355010.00	445.00	421.5
JC1	378200.00	5363500.00	665.00	188.6
MMR1	377043.00	5362227.00	609.80	108.7
YHV1	375042.00	5351000.00	192.00	65.7
YHV2	375435.00	5351400.00	120.00	163.5
YNC1	379662.00	5357909.00	512.50	61.2
YNC10	379949.00	5360116.00	514.50	529.7
YNC11	379982.20	5359395.70	514.90	151.3
YNC12	379836.50	5357766.00	497.10	577.0
YNC13	379697.20	5357479.00	502.60	507.0
YNC14	379478.80	5360809.30	525.90	163.0
YNC15	379278.90	5360815.60	516.60	163.0
YNC16	379850.40	5360863.60	541.80	250.0

YNC2	379360.00	5358062.00	302.00	53.5
YNC3	379320.00	5358052.00	285.00	35.0
YNC4	379961.67	5359959.08	516.42	272.0
YNC5	379917.53	5360194.09	517.74	364.5
YNC6	379802.50	5360396.10	510.70	451.6
YNC7	379953.60	5359662.40	518.50	289.6
YNC8	379810.10	5359892.00	512.00	282.0
YNC9	379657.40	5360192.20	510.90	262.0
YWS1	377226.50	5360063.90	533.80	430.5

YOLANDE EL 11/85
DIAMOND DRILL DOWNHOLE SURVEYS

DDH	DEPTH	DIP	AMG AZIMUTH
BR1	0.0	-50.00	138.90
BR1	152.0	-49.00	141.90
BR1	264.0	-45.00	143.90
BR1	363.0	-36.00	149.90
BR1	469.0	-29.00	128.90
DCP235	0.0	-45.00	322.00
DCP235	35.0	-46.00	320.00
DCP235	77.0	-46.50	324.00
DCP235	119.0	-46.00	327.50
DCP235	161.0	-44.00	331.00
DCP235	161.4	-44.00	331.00
HA7	0.0	-50.00	262.00
HA7	52.0	-50.50	258.00
HA7	140.0	-47.00	258.00
HA7	230.0	-41.00	258.00
HA8	0.0	-50.00	282.00
HA8	50.0	-48.50	278.00
HA8	98.0	-47.00	280.00
HA8	146.0	-45.00	282.00
HA8	200.0	-43.00	282.00
HA8	270.0	-41.00	283.00
HEC3181	0.0	-90.00	0.00
HEC3183	0.0	-90.00	0.00
HEC3185	0.0	-90.00	0.00
HEC3187	0.0	-90.00	0.00
HEC3190	0.0	-90.00	0.00
HEC3191	0.0	-90.00	0.00
HEC3193	0.0	-90.00	0.00
HFZ10	0.0	-57.00	102.00
HFZ10	55.2	-57.00	99.00
HFZ10	85.2	-57.00	98.30
HFZ10	115.2	-56.00	97.00
HFZ10	145.2	-54.00	96.00
HFZ10	174.2	-53.00	95.30
HFZ10	204.2	-51.00	95.00
HFZ10	234.2	-49.00	94.00
HFZ11	0.0	-63.00	102.00
HFZ11	23.2	-60.00	98.00
HFZ11	53.2	-58.30	97.00
HFZ11	84.0	-57.00	98.30
HFZ12	0.0	-75.00	102.00
HFZ12	60.0	-75.30	103.00
HFZ12	99.0	-75.00	104.00
HFZ12	129.0	-74.00	102.00
HFZ12	207.0	-72.00	107.00
HFZ12	322.0	-71.30	117.00
HFZ12	387.0	-70.30	114.30
HFZ12	448.0	-69.00	113.00
HFZ3	0.0	-55.00	102.00
HFZ3	12.2	-56.00	102.00

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HFZ3	24.4	-56.00	102.00
HFZ3	36.6	-55.50	102.00
HFZ3	42.7	-55.00	102.00
HFZ3	54.9	-54.50	102.00
HFZ3	61.0	-54.00	102.00
HFZ3	67.1	-53.50	102.00
HFZ3	79.2	-53.00	102.00
HFZ3	85.3	-53.00	106.00
HFZ3	97.5	-52.00	106.00
HFZ3	115.8	-51.50	106.00
HFZ3	128.0	-51.50	105.00
HFZ3	140.2	-51.00	103.00
HFZ3	152.4	-49.00	103.00
HFZ3	158.5	-48.50	102.00
HFZ3	164.6	-48.00	101.00
HFZ4	0.0	-60.00	102.00
HFZ4	12.2	-60.00	102.00
HFZ4	18.6	-59.50	102.00
HFZ4	24.4	-60.00	102.00
HFZ4	31.7	-59.00	104.00
HFZ4	39.6	-60.00	102.00
HFZ4	48.8	-60.50	102.00
HFZ4	73.2	-59.50	102.00
HFZ4	97.5	-58.00	101.00
HFZ4	103.6	-57.00	101.00
HFZ6	0.0	-60.00	102.00
HFZ6	6.1	-60.00	102.00
HFZ6	12.2	-60.00	102.00
HFZ6	12.2	-59.00	102.00
HFZ6	12.2	-60.50	102.00
HFZ6	12.2	-57.50	102.00
HFZ6	27.4	-58.50	102.00
HFZ6	27.4	-59.00	102.00
HFZ6	27.4	-55.50	94.00
HFZ6	27.4	-60.50	102.00
HFZ9	0.0	-53.00	102.00
HFZ9	123.2	-52.00	102.00
HFZ9	154.2	-49.00	100.30
HFZ9	184.2	-46.30	99.00
HFZ9	214.2	-45.00	100.00
HFZ9	244.2	-40.00	100.00
HR1	0.0	-58.00	291.50
HR1	371.0	-14.00	291.50
HR2	0.0	-51.00	281.50
HR2	230.5	-43.00	281.50
HR3	0.0	-50.00	291.50
HR3	616.7	-15.00	291.50
HR4	0.0	-71.00	111.50
HR4	310.0	-79.00	111.50
HR5	0.0	-54.00	111.50
HR5	421.5	-51.00	111.50
JC1	0.0	-56.00	283.50
JC1	30.0	-55.00	281.50
JC1	61.5	-54.00	278.00
JC1	100.0	-48.50	277.00
JC1	150.0	-41.50	276.50
JC1	188.6	-37.00	276.50
MMR1	0.0	-60.00	98.50
MMR1	108.7	-60.00	98.50
YHV1	0.0	-55.00	78.50
YHV1	65.7	-55.00	78.50
YHV2	0.0	-48.00	274.00
YHV2	30.0	-47.00	274.50
YHV2	60.0	-46.00	274.00

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YHV2	90.0	-45.00	273.00
YHV2	120.0	-44.00	274.00
YHV2	150.0	-43.00	273.50
YHV2	163.0	-42.00	274.50
YNC1	0.0	-60.00	285.00
YNC1	61.2	-60.00	285.00
YNC10	0.0	-60.00	248.00
YNC10	30.0	-58.00	246.50
YNC10	60.0	-58.00	246.80
YNC10	100.0	-57.50	250.00
YNC10	140.0	-55.00	248.00
YNC10	180.0	-53.00	246.00
YNC10	220.0	-53.00	246.00
YNC10	260.0	-51.00	246.00
YNC10	300.0	-49.00	246.00
YNC10	340.0	-47.50	246.50
YNC10	380.0	-46.00	246.60
YNC10	420.0	-45.50	247.00
YNC10	460.0	-45.00	247.00
YNC10	500.0	-44.50	247.00
YNC11	0.0	-45.00	247.00
YNC11	40.0	-45.20	247.50
YNC11	80.0	-44.40	245.50
YNC11	120.0	-44.00	242.00
YNC11	150.0	-42.70	243.00
YNC12	0.0	-50.00	328.00
YNC12	40.0	-48.50	325.00
YNC12	80.0	-48.00	328.00
YNC12	120.0	-46.40	329.00
YNC12	160.0	-44.50	330.00
YNC12	200.0	-43.20	333.00
YNC12	240.0	-42.10	332.00
YNC12	280.0	-39.80	334.00
YNC12	320.0	-38.90	335.00
YNC12	360.0	-39.00	334.00
YNC12	400.0	-38.20	336.80
YNC12	440.0	-38.00	338.00
YNC12	480.0	-37.50	339.00
YNC12	500.0	-35.00	328.00
YNC12	520.0	-36.80	336.80
YNC12	560.0	-35.50	337.00
YNC13	0.0	-45.00	262.00
YNC13	40.0	-43.20	259.00
YNC13	80.0	-40.50	259.00
YNC13	120.0	-37.00	258.00
YNC13	160.0	-30.00	255.00
YNC13	200.0	-34.00	252.00
YNC13	240.0	-27.50	249.00
YNC13	280.0	-15.00	248.00
YNC13	330.0	-13.25	247.00
YNC13	400.0	-11.00	246.00
YNC13	506.0	-9.00	245.00
YNC14	0.0	-48.00	270.00
YNC14	57.0	-48.00	270.00
YNC14	108.0	-47.00	271.50
YNC14	159.0	-42.00	270.00
YNC15	0.0	-58.00	100.00
YNC15	50.0	-57.25	99.50
YNC15	100.0	-53.80	97.00
YNC15	159.0	-49.60	97.00
YNC2	0.0	-75.00	258.00
YNC2	53.2	-75.00	258.00
YNC3	0.0	-90.00	258.00
YNC3	35.0	-90.00	258.00

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YNC4	0.0	-45.00	239.50
YNC4	31.0	-45.90	238.00
YNC4	61.0	-45.00	238.50
YNC4	100.0	-44.50	239.00
YNC4	151.0	-42.00	239.25
YNC4	199.0	-39.90	239.25
YNC4	270.0	-35.00	239.25
YNC5	0.0	-45.00	239.50
YNC5	50.0	-43.00	238.50
YNC5	100.0	-42.20	241.50
YNC5	150.0	-39.00	243.25
YNC5	200.0	-33.20	241.50
YNC5	250.0	-26.30	244.00
YNC5	300.0	-20.00	246.00
YNC5	364.5	-17.50	246.50
YNC6	0.0	-60.00	259.50
YNC6	40.0	-59.20	258.50
YNC6	82.0	-58.80	259.50
YNC6	121.0	-57.00	258.50
YNC6	160.0	-56.00	258.00
YNC6	199.0	-55.00	258.00
YNC6	241.0	-54.40	257.50
YNC6	280.0	-53.50	258.50
YNC6	320.0	-53.00	259.00
YNC6	360.0	-52.00	261.00
YNC6	400.0	-51.00	260.50
YNC6	450.0	-50.00	260.00
YNC7	0.0	-45.00	246.00
YNC7	40.0	-44.30	245.00
YNC7	80.0	-44.00	244.75
YNC7	120.0	-43.50	244.75
YNC7	160.0	-42.00	245.00
YNC7	200.0	-41.70	245.50
YNC7	240.0	-40.80	246.00
YNC7	280.0	-39.00	246.00
YNC7	289.6	-39.00	246.00
YNC8	0.0	-45.00	240.00
YNC8	52.0	-39.00	242.00
YNC8	100.0	-36.20	239.00
YNC8	124.0	-35.00	240.50
YNC8	157.0	-33.90	239.50
YNC8	190.0	-32.20	241.00
YNC8	220.0	-31.20	241.50
YNC8	271.0	-29.00	246.00
YNC8	282.0	-28.30	247.00
YNC9	0.0	-45.00	240.00
YNC9	60.0	-43.00	236.50
YNC9	90.0	-43.00	236.00
YNC9	121.0	-42.00	235.50
YNC9	160.0	-41.00	236.00
YNC9	190.0	-41.00	237.00
YNC9	250.0	-39.50	239.00
YNC9	262.0	-39.00	239.00
YWS1	0.0	-60.00	74.50
YWS1	40.0	-56.20	78.50
YWS1	80.0	-54.00	80.50
YWS1	121.0	-51.00	80.50
YWS1	160.0	-45.00	81.00
YWS1	199.0	-42.30	80.50
YWS1	241.0	-42.00	79.50
YWS1	280.0	-40.00	79.50
YWS1	322.0	-37.00	79.50
YWS1	361.0	-35.50	78.50
YWS1	418.0	-35.30	80.50

Appendix 4

Diamond Drill Hole Logs

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
YNC16

DRILLING

Location	HENTY CANAL
Project	YOLANDE EL 11/85
Prospect	TYNDALL CONTACT
Design By	P.M. Quayle
Logged By	N.K. McGunnigle
Relogged	
Commenced	12 July 1995
Completed	1 August 1995
Drilled By	Diamond Drilling Tas.
Drill Rig	Longyear LM38

OBJECTIVE

To test for mineralization at the lower contact of the Tyndall Rhyolite within a zone of mixed sediments and re-worked andesites. The zone is associated with carbonate, silica and haematite alteration, and is correlated with a zone with anomalous base-metal and gold mineralization to the south, and is thought to be in a similar stratigraphic position to the Henty gold mineralization 3kms to the north.

RESULT

Significant carbonate-haematite and silica alteration was intersected in zones within and intermixed with volcaniclastic sediments and lavas, downhole ofthe Tyndall Rhyolite. Some disseminated pyrite and rare fine grained galena was intersected.

COLLAR SURVEY (AMG)

AMG mN	5360863.6	Bearing	251.0
AMG mE	379850.4	Dip	-55.0
mN		Hole Length	252.8
mE		DH Survey Type	Eastman single shot
RL	541.8		

DOWNHOLE SURVEY (AMG)

Depth	Bearing	Dip
0.0	-55.00	251.00
54.0	-54.00	248.00
100.0	-53.80	251.00
141.0	-52.00	263.00
244.0	-49.30	256.00

SIGNIFICANT CORE LOSS

POOR GROUND CONDITION ZONES

HOLE SIZE

From	To	Size
0	2	noncore
2	47.7	HQ
47.7	252.8	NQ

HOLE CONDITIONS AFTER COMPLETION

Collar	
Steel Casing	Capped
PVC Casing	All hole
Ground Water	NIL
Wedge	NIL
Drill Pad	Sump filled in and roughly levelled.

SIGNIFICANT INTERSECTIONS

612829

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
YNC16

PHYSICAL PROPERTIES / RECOVERIES

Depth	Rec %	Mag	SG	Formn	Lith	Depth	Rec %	Mag	SG	Formn	Lith	Depth	Rec %	Mag	SG	Formn	Lith
2.30	26	0.08		TG	Lr	52.10	100	3.02		TG	Lr	139.90	100	35.30		AA	a/z
3.70	71	0.01		TG	Lr	54.30	100	2.76		TG	Lr	142.10	105	0.07		AA	slt
5.00	81	0.07		TG	Lr	55.00	100	4.91		TG	Lr	145.00	100	0.19		AA	a/z
5.80	75	0.12		TG	Lr	57.90	103	6.64		TG	Lr	148.10	100	0.08		AA	a/z
8.80	95	0.15		TG	Lr	61.10	97	7.82		TG	Lr	150.00	87	1.04		AA	a/z
11.60	100	0.10		TG	Lr	64.00	100	4.20		TG	Lr	153.10	100	18.10		AA	a/z
13.20	91	0.07		TG	Lr	67.00	100	6.13		TG	Lr	154.10	100	44.00		AA	a/z
14.70	107	0.11		TG	Lr	70.10	100	4.20		TG	Lr	157.10	100	14.90		AA	a/z
16.30	100	0.13		TG	Lr	73.10	100	0.08		TG	Lr	160.10	100	22.20		AA	a/z
17.80	87	0.11		TG	Lr	76.00	100	0.12		TG	pmf	163.10	100	10.00		AA	a/z
18.90	91	0.07		TG	Lr	79.00	100	0.09		AA	slt	166.10	100	39.40		AA	a/z
20.40	100	0.10		TG	Lr	81.70	100	0.08		AA	bsh	169.10	100	6.11		AA	a/z
21.40	100	0.11		TG	Lr	85.00	94	0.16		AA	mf	172.10	100	0.11		AA	a/z
22.60	92	0.06		TG	Lr	88.00	98	0.07		AA	mf	175.10	100	48.00		AA	a/z
23.80	100	0.22		TG	Lr	91.00	103	0.06		AA	mf	178.10	100	27.50		AA	a/z
25.30	100	0.18		TG	Lr	93.80	95	0.04		AA	mf	181.10	100	23.80		AA	a/z
26.80	100	0.17		TG	Lr	95.80	100	0.04		AA	mf	184.10	100	27.60		AA	a/z
28.40	94	0.17		TG	Lr	97.10	85	0.18		AA	sst	187.10	100	27.60		AA	a/z
29.50	100	0.17		TG	Lr	100.10	103	0.08		AA	sst	190.10	100	12.30		AA	a/z
30.00	100	0.24		TG	Lr	102.10	95	0.09		AA	sst	193.10	97	0.32		AA	a/z
31.60	100	0.07		TG	Lr	103.60	93	0.08		AA	bsh	196.10	100	17.30		AA	a/z
32.80	100	0.09		TG	Lr	105.50	47	0.12		AA	bsh	199.10	100	7.66		AA	a/z
34.30	93	0.10		TG	Lr	108.30	96	0.16		AA	sst	202.10	100	0.76		AA	a/z
35.80	100	0.08		TG	Lr	109.50	92	0.10		AA	sst	205.10	100	8.21		AA	a/z
37.40	94	0.20		TG	Lr	113.20	97	4.16		AA	sst	208.10	100	0.07		AA	a/z
38.80	107	0.06		TG	Lr	115.10	95	54.10		AA	sst	211.10	100	0.16		AA	a/z
40.00	92	0.06		TG	Lr	118.10	98	1.05		AA	sst	214.10	100	0.09		AA	a/z
42.10	95	0.09		TG	Lr	121.10	100	0.05		AA	sst	217.10	100	0.11		AA	a/z

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43.70	100	[illegible]11	TG	Lr		124.10	100	0.06	AA	a/z		220.10	100	0.18	A[illegible]	a/z	
44.80	109	0.14	TG	Lr		127.10	100	32.80	AA	sst		223.10	100	1.08	AA	a/z	
45.80	100	0.39	TG	Lr		130.10	100	4.09	AA	sst		226.10	100	0.27	AA	a/z	
46.30	80	0.26	TG	Lr		132.60	96	20.40	AA	sst		229.10	100	0.21	AA	a/z	
47.70	104	1.23	TG	Lr		135.30	100	3.11	AA	sst		232.10	100	0.15	AA	a/z	
49.10	100	5.38	TG	Lr		138.10	96	18.20	AA	sst		235.10	100	0.11	AA	a/z	

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
YNC16

PHYSICAL PROPERTIES / RECOVERIES

Depth	Rec %	Mag	SG	Formn	Lith	Depth	Rec %	Mag	SG	Formn	Lith	Depth	Rec %	Mag	SG	Formn	Lith
238.10	100	0.02		AA	a/z												
241.10	100	0.04		AA	a/z												
244.10	100	0.08		AA	a/z												
247.10	100	0.08		AA	d/z												
250.10	100	0.06		AA	d/z												
252.80	63	0.05		AA	d/z												

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PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
YNC16

ASSAY RESULTS

From	To	Samp	Int	Cu	Pb	Zn	Ag	Au	Fe	Ba	As	Mn
70.60	73.40	75132	2.8	14	9	39	<1	0.04		434		
73.40	76.00	75133	2.6	10	22	98	<1	0.01		750		
76.00	78.90	75134	2.9	24	89	125	<1	0.01		653		
78.90	80.80	75135	1.9	10	247	431	<1	0.01		1030		
80.80	82.80	75136	2.0	47	445	481	<1	0.01		898		
86.90	88.70	75137	1.8	27	48	38	<1	<0.008		828		
88.70	90.90	75138	2.2	23	22	82	<1	<0.008		937		
90.90	93.80	75139	2.9	20	52	54	<1	<0.008		320		
95.80	98.50	75140	2.7	28	72	99	<1	0.01		806		
98.50	101.60	75141	3.1	27	105	158	<1	<0.008		2000		
105.90	109.40	75142	3.5	41	208	410	2	0.01		3660		
113.40	115.10	75143	1.7	17	32	155	<1	<0.008		1080		
115.10	118.10	75144	3.0	4	29	85	<1	<0.008		546		
121.20	123.10	75145	1.9	5	125	106	<1	<0.008		44		
123.10	125.10	75146	2.0	8	60	84	<1	<0.008		308		
125.10	127.10	75147	2.0	28	25	184	<1	<0.008		1720		
127.10	129.80	75148	2.7	5	24	85	<1	0.01		570		
135.40	137.50	75149	2.1	4	28	69	<1	<0.008		1170		
140.20	142.80	75150	2.6	6	35	43	<1	<0.008		106		
142.80	145.40	75151	2.6	6	22	88	<1	<0.008		210		
154.10	157.10	75152	3.0	39	30	53	<1	<0.008		736		

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PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
YNC16

DRILLING

Location	HENTY CANAL
Project	YOLANDE EL 11/85
Prospect	TYNDALL CONTACT
Design By	P.M. Quayle
Logged By	N.K. McGunnigle
Relogged	
Commenced	12 July 1995
Completed	1 August 1995
Drilled By	Diamond Drilling Tas.
Drill Rig	Longyear LM38

OBJECTIVE

To test for mineralization at the lower contact of the Tyndall Rhyolite within a zone of mixed sediments and re-worked andesites. The zone is associated with carbonate, silica and haematite alteration, and is correlated with a zone with anomalous base-metal and gold mineralization to the south, and is thought to be in a similar stratigraphic position to the Henty gold mineralization 3kms to the north.

RESULT

Significant carbonate-haematite and silica alteration was intersected in zones within and intermixed with volcaniclastic sediments and lavas, downhole ofthe Tyndall Rhyolite. Some disseminated pyrite and rare fine grained galena was intersected.

COLLAR SURVEY (AMG)

AMG mN	5360863.6	Bearing	251.0
AMG mE	379850.4	Dip	-55.0
mN		Hole Length	252.8
mE		DH Survey Type	Eastman single shot
RL	541.8		

DOWNHOLE SURVEY (AMG)

Depth	Bearing	Dip
0.0	-55.00	251.00
54.0	-54.00	248.00
100.0	-53.80	251.00
141.0	-52.00	263.00
244.0	-49.30	256.00

SIGNIFICANT CORE LOSS

POOR GROUND CONDITION ZONES

HOLE SIZE

From	To	Size
0	2	noncore
2	47.7	HQ
47.7	252.8	NQ

HOLE CONDITIONS AFTER COMPLETION

Collar	
Steel Casing	Capped
PVC Casing	All hole
Ground Water	NIL
Wedge	NIL
Drill Pad	Sump filled in and roughly levelled.

SIGNIFICANT INTERSECTIONS

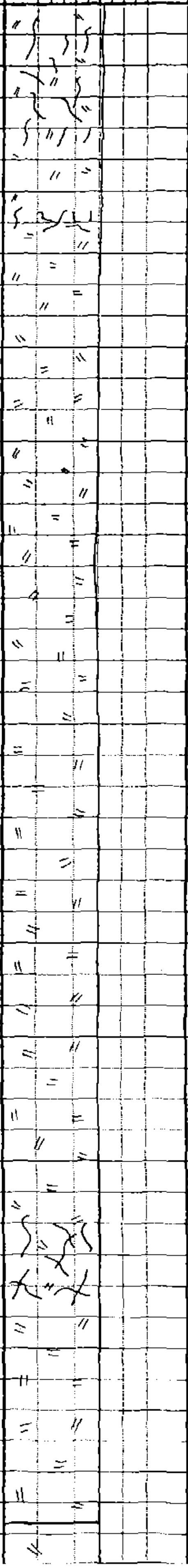
Project : YOLANDE

Logged by: NKMCGUNNIGLE

Date : 25-7-95

PASMINCO EXPLORATION
DIAMOND DRILL LOG

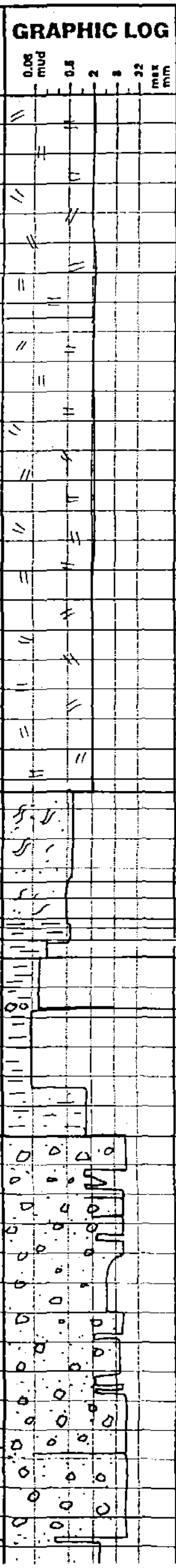
HOLE No. YNC16

m	VEINING and ALTERATION (1 = weak, 4 = intense)	STRUCTURE b = bedding c = cleavage f = fault Angles to LCA	GRAPHIC LOG 0.06 mud 0.5 2 4 8 32 max mm	LITHOLOGY	MINERALISATION
0	sil (4) chl (2) - pervasive alb (1) (pale pink)	commonly broken		TYNDALL RHYOLITE Silicified, quartz-phyric flowbanded rhyolite lava. Dark green-grey in colour (chl), with mottled pale pink patches of sil-alb commonly banded (mimicking flowbanding ?) with dark green chl blotches. Quartz phenocrysts, sub-euhedral constitute ~2%, ≤ 5mm (av. 2mm) Feldspar ≤ 4mm long, rectangular 1-2%, commonly replaced by alteration (chl, alb, sil). White, f.g. leucoxene clustered in 'bands', parallel to flowbanding	
2					
4	3.7 mottled chl + alb	flowbanding (FB) (chl + alb) 28°LCA			
6	veinlets & microveinlets common: infilled with qz &/or chl	broken FB: 35°LCA			
8					trace diss py + some diss. py in qz-chl veinlets
10		FB: 35°LCA			
12					
14					
16	ser (1) replacement of ? crystals or nodules + in fractures	FB: 45°LCA			
18				17.1-17.2: pseudoclastic texture where chl-sil pervasive in fractures	
20					
22	21.2 pink-red pervasive alb/hm + pink-orange replaced feld. phenocrysts				
24	24.2 contd. pink alt, but banded & mottled + crystal replacement				
26		FB: ⊥ LCA			
28					
30	30.4	FB: 40° LCA			
32	chl (2) ser (1) in fractures & crystals				
34	sil (4: contd)				
36		FB: 38°LCA			
38	36.8 pink-orange alb patches	38.7 broken + rubbly			
40	qtz-chl veinlets	41.4			
42	dark green chl				
44					
46					
48	inc'g alb/hm from mottled to pervasive	fracture: 30°LCA 48.6 filled with mud & gravel (20mm)		inc'g pervasive red colour + chl 47.7 inc'g M.S. chl - more visible feld. (? due to < sil.?)	
50	sil (2)				

Project : YOLANDE
Logged by: NKM
Date : 25-7-95

PASMINCO EXPLORATION DIAMOND DRILL LOG

HOLE No. YNC16



m	VEINING and ALTERATION (1 = weak, 4 = intense)	STRUCTURE (b = bedding, c = cleavage, f = fault, Angles to LCA)	LITHOLOGY	MINERALISATION
50–54				
54	54.2 ↓ sm CO veinlets (1)			
56–58	57.3 15mm qtz-chl vein	Fracture : 48°LCA 6mm, infilled 57.4 with f.g. mud (appears to have 2 'fills')		
58	58.9 20mm qtz-CO vein			
60–66				
66–72	CO			
72	71.8 net CO veinlets ↓ green pervasive chl.	CONTACT: cnf	73.4	
74–76	73.6 qtz-CO veinlets ser(3) sil(1) hm(1-2) hm	B: 68°LCA CONTACT: grad (mixed cnf)	VOLCANIC MASS FLOW DEPOSIT Pink-grey, compacted sericitic mass flow deposit. 76.3 PTO	fine diss py (<1%) + in microveinlets aspy? in qtz vein
76–78	ser(1) qtz-CO veinlets (3)	B: 70°LCA CONTACT: cnf	VOLCANICLASTIC MASS FLOW DEPOSIT PTO 77.6	py, diss (<1%) + tr. sp
78	sil (3) hm (1)	B: 70°LCA	78.3 SILTSTONE PTO	py > sp diss, 1%
78–79	CO (2)	CONTACT: mixed conf.	79.0 INTERCALATED SLTST + VOLC'C	
79–80.7	sil (3) CO-qtz veinlets ser(2) ∥ bedding		SILTSTONE 80.7 / 80.7-80.8	py > sp (diss) 1%
80.7–83	CO veinlets qtz veinlets		BLACK SHALE Finely laminated, carboniferous, slightly graphitic, with occasional bands (≤10mm) of crs.gr. seds + 'clasts' of mass. py.	81.0: sp in qtz vlets 2-3% py (diss) in veinlets & stringers + aspy (tr; veinlets)
83	CO(4)			
84–85	sil (2) + CO (veinlets)	B: 40° LCA CONTACT: cnf mixed	84.6-85.0 : contains abundant sil. nodules + py 85.0	84.6 5% py (diss + string)
85–90	CO (3) sil (≤1) hm-chl(≤1) CO (4) CO CO	? some faulting above & below contact, brittle movement with infilling orange clays. B: 40°LCA	MASS FLOW BRECCIA Subang-subrounded clasts of sst, siltst & carbonate (≤80mm) in a med-dark grey shale-fine siltst matrix. Pale grey-tan mst, laminated shale & CO clasts are compacted in bedding, with soft matrix compaction features observed around clasts. Rare jasper is present. CO alt^n has replaced some clasts (pref. CO/lst?), and masked original texture in places (where CO=4) some chl-hm staining; pink hm in CO from 89.0 down. From 88.6: > prop^n matrix : clasts	2-3% py, diss + 'nodules' (≤8mm) in CO & CO clasts + on rim of CO clasts 1% mag, diss 86.4 tr. sp
90–94	patches of intense (4) CO, masks original txt hm			1-2% py (as above)
94–96	95.9	94.4 Fractured + broken (x6) 95.8 with clay 95.6 in fractures ?F Broken rubbly		
96–98	CO(2) ser(2) 97.5 CO			
98–	sil (2). CO (2) ser(2)	Sm F: 10°LCA 98.8	98.7 Intermixed sst/shale/CO-conglomerate (PTO) visible feldspar crystals + sericite	some f.g. py stringers in shale

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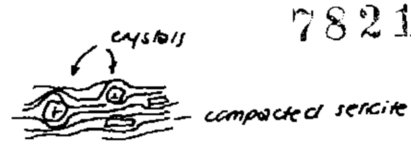


73·4 - 76·3 Quartz crystals av. 2-4mm (≤6mm) + lesser feldspar crystals (≤3 mm) are abundant in sericitic groundmass contains very rare nodular pumice + occasional sil. clasts. Fine distribution of leucoxene present.
Haematitic altⁿ of nodules + crystals.

76·3 - 77·6 VOLCANICLASTIC MASS FLOW DEPOSIT

Brown-grey, compacted, sericitic (originally vitric), containing qtz + feld crystals + ~1% leucoxene.
Clasts include rounded siliceous nodules, subangular shale-siltst + rip-up clasts of shale (≤20mm). Similar/same derivation as above unit.

76·3 - 76·9 contains qtz-chl veins
76·9 - 77·6 some darker bands, 10-20mm abundant feldspar + sericite

77·6 - 78·3 SILICIFIED SILTSTONE

med-grey siltstone, highly silicified masking much of original texture. Appears to be bedded contacts either side have "compacted" seds

78·3 - 79·0 INTERCALATED VOLCANICLASTIC + SILTSTONE

Mid grey-brown, sericitic volcaniclastic containing qtz-feld + leucoxene with clasts of rhyolite (?), shale + silicified nodules.
interfingered with fine, grey siltstone (co)
py minⁿ is diss & in microveinlets / fine stringers.

79·0 - 80·7 SILICIFIED SILTSTONE

Blue-grey, intensely silicified siltstone; original texture masked by altⁿ, but appears to be fine grained, massive, and ?bedded (10mm band of incl'd leucoxene indicates bedding structures)
some dark patches, 1-4mm in length, abundant (chl?)

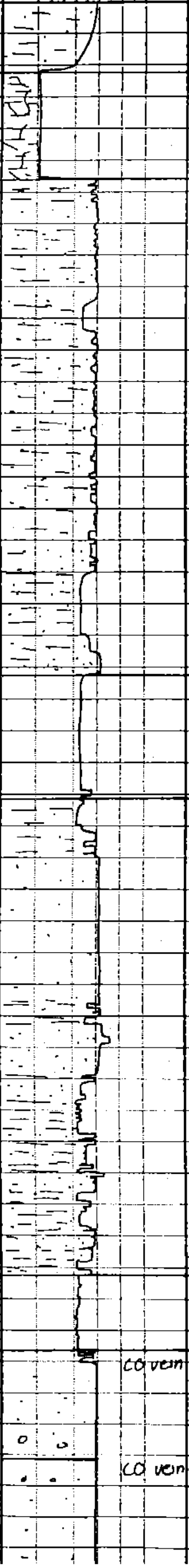
98·7 - 102·2 Intermixed seds. Finely laminated black shales facing uphole: clasts in bedding 
Clasts include laminated shale, & co replaced clasts ≤40 mm

Project : YOLANDE
Logged by: NKM
Date : 15-8-95

PASMINCO EXPLORATION
DIAMOND DRILL LOG

782136

HOLE No. YNC16

m	VEINING and ALTERATION (1 = weak, 4 = intense)	STRUCTURE b = bedding c = cleavage f = fault Angles to LCA	GRAPHIC LOG	LITHOLOGY	MINERALISATION
100–102		CONTACT: cnf		102.2	py 'clots' inc'g common
102–106	CO (2) at veins/veinlets ser (1) // cleavage CO // cleavage 10mm qtz vein at contact	mixed C: 65-70° LCA broken core CONTACT: cnf		BLACK SHALE finely laminated black shale with interbedded dark grey siltstone 105.6	3-5% py (in some & as stringers & patches) // cleavage
106–121	CO (2) in patches CO (3) stylolitic ang. txt. mixed ser (<1) sil (2) CO (3) chl (1) ser (2) hm (1) CO(3) CO(3) jasper in chl veins qtz-chl vein 40mm CO (1) in f.g. silts bleached	mixed C: 60° LCA CONTACT: mixed		INTERCALATED VOLCANIC DERIVED SANDSTONE-SILTST. Mid-grey laminae of fine silst-sst & crs sst-gravel composed of 1-2mm rounded -subrd quartz, feldspar & siliceous clasts with pyrite nodules & diss. pyrite in matrix. From 107.5: sand (crystals) bedded in fine, sericitic groundmass. 116.6-112.8, flattened tubular & vesicular pumices visible ? unsure whether volcanic/volcaniclastic. (some hm-sil replaced) From 112: Leucoxene inc. in abundance (1 → 3%), some in bands. 121.2	2-3% py, diss + 'nodules' rare sp rare dull grey gn in qtz-CO veinlets - 2-3% mag gn (qtz-CO vein)
121–125	CO (4) ser (<1) in fractures chl (<1) in fractures CO(3) trace hm			ZONE OF CARBONATE ALTn CO altn of fine ?volcaniclastics PTO 125.1	py (1%) in stylolitic fractures
125–140	CO (1-3) in patches hm (1) chl (1) CO(4) leucosite CO ser (1) CO (3) masks much of original texture chl-mag (4)	C: 44° LCA CONTACT: mixed		VOLCANICLASTIC SANDSTONE Grey, fine to coarse grained sandstone intercalated with gravel sized clasts, composed of reworked feldspar crystals, an-euhedral (white + hm stained) ± hornblende? + leucoxene. Clasts include jasper, + siliceous clasts, 2-6mm, rip-up CO, stretched along cleavage. In some sst beds (eg. 126.9) sericitic compaction around clasts. Patches of pink-red hm in coarser beds 139.7-140.1 Fine grained dark red-grey mafic unit. ?basalt dyke or reworked seds. (unidentified) strongly mag-chl altered 140.1	v. min diss py tr. sp 1% diss + cubic py (CO veining) minor-ab mag py, diss, minor mag, 2-3% py, diss, ≤1% (some in stringers parallel foliation) 2% mag, in crs gr. beds py (minor)
140–142.7	CO (4) hm (1) chl (<1) ser (1) in cleavage	C: 42° LCA cnf CONTACT: mixed		CARBONATE ZONE intense carbonate alteration of fine grained seds PTO 142.7	2-5% mag (f.g. diss)
142.7–150	CO (2-3) - some pervasive. mostly in CO veins/veinlets bleached orange-yellow (hm-ser) hm (1) patchy chl (1) ser (1) parallel to cleavage CO(4)	C: 42° LCA cnf bleached (?F zone) 10mm 146.1 sheared, flaky f: 42° & puggy zone Strongly foliated with stretched amygdales, feld. crystals, sericite	CO vein CO vein	LAVA-CARBONATE COMPLEX Porphyritic, dark grey intermediate lava containing irregular patches & clasts of white & hematitic carbonate 145-147 : pseudoclastic zone with abundant sericite	tr. diss. py 1% diss. py in CO matrix minor mag

121·2 - 125·1 CARBONATE ALTERED ZONE

Mottled pale-dark grey stylolitic alteration of sand-siltst & possibly limestone which has preferentially altered to carbonate. Original volcaniclastic includes quartz crystals + silicified ?clasts or nodules which is exposed in lesser altered matrix near lower contact.
Chl-ser pervasive in finer grained (silt), & CO possibly more prevalent in coarser beds of sand-silt volcaniclastics.

140·1 - 142·7 CARBONATE ZONE

White & pink (hm stained) CO alteration of sediments, originally composed of fine, vitric siltstone & ?limestone, interbedded with coarser volcaniclastics near lower contact. Intense alteration has masked most of original texture with irregular purple-grey alteration.

782138

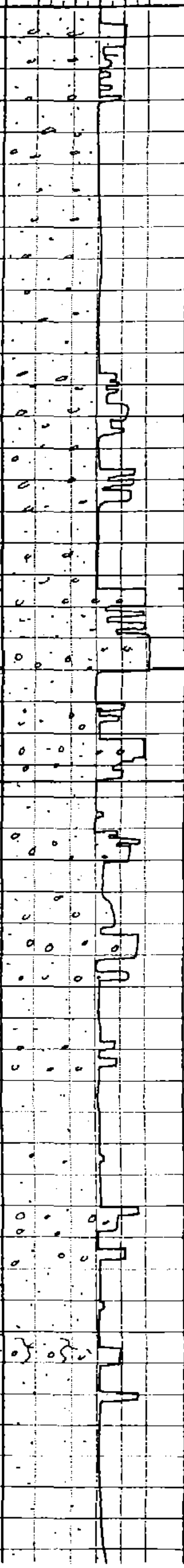
Project : YOLANDE

Logged by: NKM

Date : 16-8-95

PASMINCO EXPLORATION
DIAMOND DRILL LOG

HOLE No. YNC16

m	VEINING and ALTERATION (1 = weak, 4 = intense)	STRUCTURE (b = bedding, c = cleavage, f = fault, Angles to LCA)	GRAPHIC LOG (0.06 mud, 0.5, 2, 8, 32, max mm)	LITHOLOGY	MINERALISATION
150–160	CO (2-3); 155–156.5: CO(3)	C: 42° LCA; CO lenses & patches throughout; 160: C: 36° LCA		Lava contains phenocrysts of feldspar ± hypersthene(?), and amygdales replaced by CO. Crystals & amygdales stretched with strong cleavage. 150.0-159.5, increased sericite (parallel cleavage, compacted w. foliation) 1% leucoxene. Nature of CO in the complex suggests that lava flowed into semi-lithified carbonate sediments & conglomerate, some hematitic white-purple irregular, blotchy clasts & 'rip-up' clasts jumbled into complex. Beds up to 100mm.	minor py - (commonly assoc. with chl. patches)
160–168.4	166.5–167: CO; 167.1–168.4: dark red hm				
168.4–170.9	CO (3)	strongly cleaved C: 40°LCA		168.4 Intermixed lava-CO composed of clasts of white + hm (purple) CO conglomerate & rip-up clasts & sub-rounded clasts of dark red-grey lava 170.9	py (<1%) diss + nodules in matrix
170.9–173.3					v.minor diss. py
173.3–174.4	CO (3-4)	C: 45° LCA		173.3 Lava-CO complex. fragmented clasts of CO & lava, ≤70mm, with pseudoclastic texture. 174.4	py (<1%) diss. in matrix
174.4–191.0	CO (2-3) in patches; chl (1)-(2) in patches; hm (1); 182–183.8: CO (3), chl(2), trace hm; 186.5↓: CO(1) (2) in patches, chl (1), hm (1)	190.5: sm. F CO-filled F: 15° LCA		MIXED VOLCANIC-CARBONATE SEQUENCE. Variably textured felsic ?volcaniclastic - mixed CO unit. Change in texture with altn: flecky ser-chl & massive sil-alb. Volcanic (unidentified) is massive & uniform, crystal rich, composed of feldspar > quartz, ± hypersthene, ± amygdales commonly pink-red (hm stained). Slightly hematitic CO is present as veins, muds & patches, & within wispy & banded CO (muds) are fragments / clasts of volcaniclastics. (? fragmented as intermixed sequence, or 2° pseudoclastic feature). Patchy sil-alb alt^n (massive) vs chl-ser which has been subject to foliation.	minor py (diss) associated with CO / chl alt^n
191.0–193.1	CO (2-3) pink-purple, ser (2), bleached	fractured + broken, bleached (? F zone) 192.1–192.6		191.0 Patchy & fragmented pseudoclastic CO-volc sequence (bleached & sericitic) 193.1	minor diss. py (CO alt^n)
193.1–198+	CO(1) (2) in patches commonly ∥ cleavage or pseudoclastic; ser (2); chl (1) hm (1); 198: ser(2), CO(<1), chl(1), hm(1)	C: 30°LCA		FELSIC VOLCANICLASTIC. Mid-dark grey, crystal rich, with light grey, highly cleaved sericitic matrix. Feldspar + qtz crystals usually have corners knocked off, and clasts are stretched parallel to cleavage.	minor py (diss), mag, ab, (diss)

(contd)

193·1 - 205·2 Lesser carbonate is irregular, patchy & stretched by cleavage. Some CO patches contain fragmented clasts of irregular shaped volcaniclastics.

Slightly & gradually increasing in grainsize downhole.
Presence of leucoxene in some fine, subtle bands.

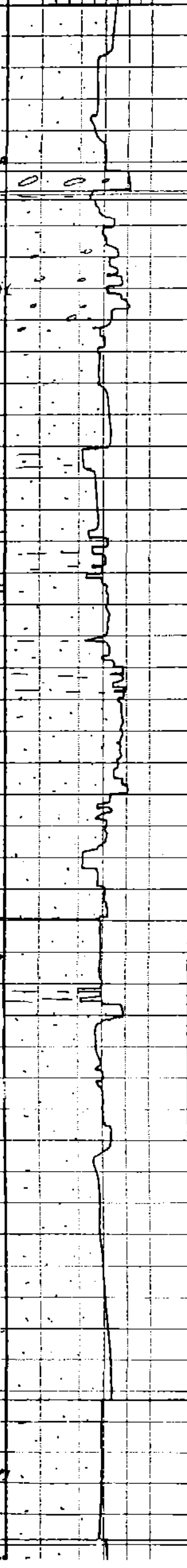
Some dark grey-black & green (chl) ?clasts &/or alteration flecks are stretched parallel to cleavage, & commonly have wispy ends.

Project : YOLANDE
Logged by: NKM
Date : 16-8-95

PASMINCO EXPLORATION
DIAMOND DRILL LOG

HOLE No. YNC16

m	VEINING and ALTERATION (1 = weak, 4 = intense)	STRUCTURE b = bedding c = cleavage f = fault Angles to LCA	GRAPHIC LOG 0.06 mud 0.5 2 8 32 max mm	LITHOLOGY	MINERALISATION
200–205.2	+ hm(1)	CONTACT: int 22° LCA		205.2	py (massive) in 10mm band + mnr cp; 1% py (diss); 1% mag (diss); tr. diss sp
205.2–205.8	CO(4) Chl(1) ser(2)	CONTACT: diffuse		205.8 MIXED CARBONATE SEQUENCE	py (diss) mnr; mag (diss) mnr
205.8–206.1				206.1 FINE CLASTIC-CO UNIT	
206.1–207	sil(2) ser(1-2) tr. hm				2-3% py (diss)
208–210	sil (2) tr. CO; ser (2); hm (1)	C: 30° LCA; strongly cleaved, esp. where sericitic		VOLCANICLASTIC SANDST. Upwards fining graded & intermixed med-coarse gr. sandstone volcaniclastics. Variably textured & coloured with alteration, from light grey (sil) fine-med grained to pale orange (hm-ser) coarse volcaniclastic.	py (diss) mnr; mag (ob. in finer beds)
210–214	ser (2-3) in patches (strongly cleaved); sil				1-2% py (diss); py (≤1%) diss f.g. diss
214–216.5	sil-alb (4); sil (3-4)	C: 24° LCA		Constituents include feldspar & quartz (< 1mm) + sil & hm clasts. Leucoxene in finer grained beds. Beds 30-60mm. Some clasts (≤20mm) composed of feldspar phyric volcanic (? lava/clastic), variably altered. 213.9-216.5	v.f.g. diss py 2% commonly // foliation
216.5–217	ser (3) sil-alb (1)	highly sericitised tuffs have K: 40° sheared offset by texture near parallel shear 10° LCA 218.3; sheared 65° LCA 218.5			
217–220.2	ser (2-3) variable & patchy; sil-alb (2-3); hm (trace)			Alteration overprint enhances clastic appearance/induced pseudoclastic texture. Orange sil-alb pseudoclasts irregularly distributed within siliceous alteration; appear to nucleate on original clasts as relic feldspar crystals visible.	220.2
220.2–228	223.3 hm (1-2) light-dark patches 225.8	C: 30° LCA			diss. mag (ob) some in clusters // foliation; 1% py. diss f.g.
228–229.1	CO (3) chl (1) overprint hm on lower contact	?F or shear 36° LCA			
229.1–231.6	ser (3); CO(1) veins + veinlets	Kink 90° LCA			
231.6–232.3	CO (2) hm (1)				
232.3–233.6	ser (3) CO (1)				
233.6–234	sil (1) hm (1)				
234–242.8	sil-alb (2) orange-grey; sil (3) contains traces of fine grey base metal sulphides (gn) + py	C: 32° LCA		236.9 Mottled, orange-grey sil-alb and grey silica pseudoclastic overprint of clastics. Strongly cleaved, esp. where sericitic 242.8	235.5; 2-4% v.f.g. diss py + diss py 'clots'; minor fine gn in grey sil alth.
242.8–244.15	sil-alb / sil (3)				243.7 tr. cp + gn in qtz-CO veinlets
244.15–248.7	ser (2); sil-alb (3); ser (2); few qtz-CO veinlets	CONTACT: 52° eroded; difficult to identify. unconf. Strong ductile deformation makes original rock unidentifiable		244.15 MASSIVE VOLCANICS massive & uniform orange-grey volcanic (? lava), with varying alt° possibly following ?flowbanding. Feldspar crystals albitised & deformed by strong cleavage.	1% diss py; tr f.g. diss gn
248.7	248.7	CONTACT: 32° ? conf. abrupt		248.7 Leucoxene ~2%; VOLCANICLASTICS	248.6 diss. sulphide bed py, ab (diss)



205·2 - 205·8 MIXED CARBONATE SEQUENCE

White-cream & hematite stained pink-purple carbonate in irregular blotches, commonly p-p bordered by pale co. Within co, in irregular clasts & wisps, are med-crs grained sericitic orange-brown & grey volcaniclastics (orange-brown match above unit), stretched along cleavage.

205·8 - 206·1 FINE CLASTIC - CO UNIT

Fine grained, cream coloured felsic derived volcaniclastic sandstone intermixed with co & minor med-crs grained volcaniclastics. Sericitic between beaded and foliated units of co ?mud.

Alteration: co (2-3) in patches & bands
ser (2)

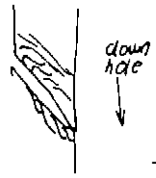
782142

Project : YOLANDE.
Logged by: NKM
Date : 16-8-95

PASMINCO EXPLORATION
DIAMOND DRILL LOG

HOLE No. YNC16

m	VEINING and ALTERATION (1 = weak, 4 = intense)	STRUCTURE (b = bedding, c = cleavage, f = fault, Angles to LCA)	GRAPHIC LOG (0.06 mud, 0.5, 2, 8, 32, max mm)	LITHOLOGY	MINERALISATION
250	sil-alb (3) co-qtz veining ser (2-3)	C: 36°LCA ductile fault 251·8 (or shear) F: 28°LCA		251·6 – 252·0 ductile shear 252·8 EOH. Strongly deformed and variably altered volcaniclastic. Fine to coarse grain sized, with finer constituents more highly sericitised, deformed & cleaved. Coarser components are sil-alb altered, grey-orange, with some qtz-co pseudoclastic overprinting. Feldspar crystals are albitised and deformed by strong cleavage.	py: ab. (diss. f.g.) gn: minor v.f.g. diss. in sil. alt^n
252	ser (3) sil-alb (2)				
254		at: 251·8 ductile fault			



PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID YNC15

DRILLING

Location	NEWTON CREEK
Project	YOLANDE
Prospect	HENTY CANAL
Design By	P.M.Quayle
Logged By	D.Gardner
Relogged	
Commenced	18 April 1995
Completed	9 May 1995
Drilled By	ATE
Drill Rig	Gopher

OBJECTIVE

To test a zone of intense pyrite-sericite-silica alteration exposed in the Henty Canal. This zone correlates with the Newton Creek "pricncipal target horizon" and is coincident with anomalous IP.

RESULT

The South Henty Fault was a zone two metres wide of sheared sericite pug dipping at 75W. To the east altered pyritic dacites with dissapointing base metal and gold grades were intersected, to the west the influence of the fault spanned 40m of mixed sheared black shales and acid volcanics.

COLLAR SURVEY (AMG)

AMG mN	5360815.6	Bearing	112.0
AMG mE	379278.9	Dip	-58.0
mN		Hole Length	162.3
mE		DH Survey Type	Eastman single
RL	516.6		

DOWNHOLE SURVEY (AMG)

Depth	Bearing	Dip
0.0	-58.00	100.00
50.0	-57.25	99.50
100.0	-53.80	97.00
159.0	-49.50	97.00

SIGNIFICANT CORE LOSS

From	To	Loss

POOR GROUND CONDITION ZONES

From	To	Condition
71	138	Highly cleaved and broken at low angle to core axis.
138	140	Fault zone, sericitic shear, pug zone. (South Henty Fault).

HOLE SIZE

From	To	Size
0	162.3	BQ

HOLE CONDITIONS AFTER COMPLETION

Collar	
Steel Casing	
PVC Casing	
Ground Water	NIL
Wedge	
Drill Pad	Site left clean and tidy.

SIGNIFICANT INTERSECTIONS

From	To	Int	Cu	Pb	Zn	Ag	Au	Comments

78214

PASMINCO EXPLORATION

DIAMOND DRILL CORE LOG

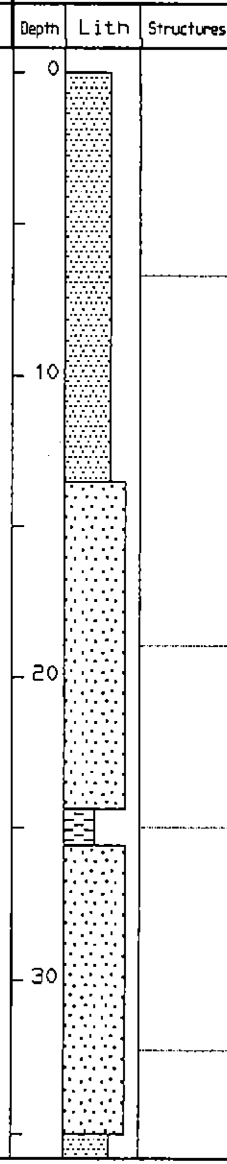
HOLE No. **YNC15**

PROJECT: YOLANDE

Vertical Scale 1 : 250

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
0.00	13.50	SILTSTONE WITH MINOR BLACK SHALE WITH MINOR GREYWACKE Brown, Grey, Fine grained, Bedded, Foliated, Beds generally 15mm thick, felspar rich where coarser, volcaniclastic CONTACT: Gradational,	Moderately Oxidised.		
13.50	24.40	SANDSTONE AND SILTSTONE WITH MINOR SHALE Brown, Grey, Medium grained, Bedded, Foliated, Feldspar rich, some finer shaley beds up to 1cm CONTACT: Conformable abrupt,			BEDDING, A 20, Bedding 0-30 to LCA
24.40	25.60	SHALE GRADING WITH SILTSTONE Dark, Grey, Fine grained, Bedded, Foliated, Slatey cleavage, slickensided, with some bronze mica on cleavage planes CONTACT: Conformable abrupt,			BEDDING, A 25, Bedding in places
25.60	35.00	SANDSTONE AND GREYWACKE Grey, Brown, Medium grained, Coarse grained, Bedded, Foliated, Lithic, Many coarser lithics are silicified ?mudstone fragments (stretched out into foliation), and there is probably a high felsic (volcanic) component, coarse beds (lithics to 5mm) at 32 and 34m CONTACT: Indistinct,			BEDDING, A 10,
35.00	39.20	SILTSTONE AND SHALE WITH MINOR SANDSTONE Dark, Grey, Fine			

GRAPHIC



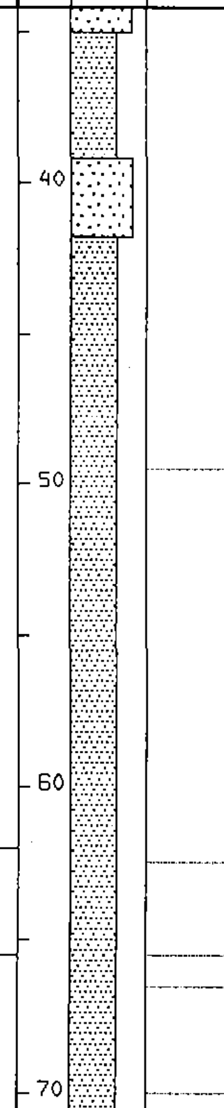
PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. **YNC15**

PROJECT: YOLANDE

Vertical Scale 1 : 250

DESCRIPTION					GRAPHIC	
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth / Lith / Structures	STRUCTURES
35.00	39.20	SILTSTONE AND SHALE WITH MINOR SANDSTONE Dark, Grey, Fine grained, Bedded, Foliated, Beds 1 to 20mm thick CONTACT: Conformable abrupt,				BEDDING, A 30, Foliation is parallel to beeding
39.20	41.80	SANDSTONE AND GREYWACKE WITH MINOR SILTSTONE Grey, Fine grained, Medium grained, Bedded, Foliated, CONTACT: Conformable abrupt,			40	
41.80	71.00	SILTSTONE AND BLACK SHALE INTERBEDDED WITH SANDSTONE AND GREYWACKE Grey, Brown, Fine grained, Medium grained, Bedded, Foliated, The coarser sst beds are felsic and lithic, probably with a volcanic component, and are up to 5cm thick CONTACT: Indistinct,		DISSEMINATED, very minor pyrite in veins, in an area of strong quartz carbonate veining. DISSEMINATED, trace pyrite in veins, usually associated with quartz and/or carbonate veining, eg 70.3m.	50 60 70	BEDDING, A 20, Bedding 10-20 to LCA BEDDING, A 20, Strong micro faulting and some possible soft sediment deformation BEDDING, A 45, Rapidly changing bedding is indicative of folding? BEDDING, A 30,
		ACID VOLCANICLASTIC AND ALTERATION ZONE Green, Grey,				



From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
71.00	75.00	ACID VOLCANICLASTIC AND ALTERATION ZONE Green, Grey, Foliated, Schistose rock with quartz and sericite rich bands, with minor carbonate and chlorite, probably originally a felsic glassy volcaniclastic, Thin Section required CONTACT: Indistinct.	Highly Sericitised. Moderately Silicified. Slightly Chloritised.		BEDDING. A 20. FIRST CLEAVAGE. A 45. Schistose. Strong.
75.00	75.50	SILTSTONE Dark, Grey, Fine grained, Laminated, Foliated, CONTACT: Indistinct.	Highly Sericitised. Slightly Silicified. Slightly Chloritised.		BEDDING. A 40.
75.50	84.50	INTERMEDIATE LAVA Green, Grey, Medium grained, Foliated, Feldspar phyric, Coherent sericite rich rock, with abundant chlorite and leucoxene suggesting an intermediate glassy? lava as a protolith Thin Section required CONTACT: Indistinct.			
84.50	94.00	INTERMEDIATE VOLCANICLASTIC GRADING WITH ACID VOLCANICLASTIC AND ALTERATION ZONE Green, Yellow, Foliated, Sericite (quartz, chlorite) rock, possibility from a clastic protolith (a few small sections have chlorite replaced phenocrysts and quartz eyes, more like the interval below CONTACT: Indistinct.	Intensely Sericitised. Moderately Silicified.		FIRST CLEAVAGE. A 40. Schistose. Strong.
94.00	108.00	INTERMEDIATE LAVA Green, Grey, Medium grained, Porphyritic, Foliated, Crystal, Coherent sericite quartz chlorite textures suggest a strong phenocryst component and possible amygdales?? now replaced with quartz (these are S shaped cutting across foliation), probably was an intermediate lava, some more clastic textures maybe breccias Thin Section required CONTACT: Indistinct.	Highly Sericitised. Moderately Silicified. Slightly Chloritised.		

GRAPHIC: Depth | Lith | Structures

70

80

90

100

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. **YNC15**

PROJECT: YOLANDE

Vertical Scale 1 : 250

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
108.00	112.20	ACID VOLCANICLASTIC AND ALTERATION ZONE Green, Yellow, Foliated, Sericite quartz rock totally altered, rare possible fragmental textures (mainly quartz caught up in sericite defined foliation), possibly clastic as tit is much more altered than adjacent coherent volcanics, Thin section required CONTACT: Gradational,	Intensely Sericitised, Highly Silicified,		FIRST CLEAVAGE, A 35, Strong,
112.20	128.90	ACID VOLCANICLASTIC AND ALTERATION ZONE AND BLACK SHALE Yellow, Black, Sheared, Foliated, Sericite quartz rock as before but with numerous intervals (interbeds?) of black graphitic shale & minor greywacke? The sediments increase the probability that the altered volcanics are clastic (vitric tuff?), 117.4-120m has little shale though the proportion generally increasing downhole CONTACT: Gradational,	Highly Sericitised, Highly Silicified,	DISSEMINATED, pyrite in veins, associated with alteration, usually associated with quartz and/or carbonate veining.	FIRST CLEAVAGE, A 40, Strong,
128.90	138.00	ACID VOLCANICLASTIC AND ALTERATION ZONE Yellow, Pink, Foliated, Sheared, Quartz sericite rock after felsic (pink) volcanic (lava or clastic?) now has sericite wrapping around silicified slugs CONTACT: Indistinct,			FIRST CLEAVAGE, A 25, Strong, Foliation 25-30 to LCA, numerous graphitics shears parallel to this
138.00	140.00	ALTERATION ZONE DEFORMED ZONE Grey, Yellow, Sheared, Fault/shear zone with quartz sericite rock and graphitic shale sitting in sericitic pug CONTACT: Indistinct,	Highly Sericitised, Moderately Silicified,		A 40, Shear, Pug, Numerous small shears
140.00	162.30		Moderately Silicified,		FAULT, Shear, Pug,

GRAPHIC — Depth: 110, 120, 130, 140

PASMINCO EXPLORATION

DIAMOND DRILL CORE LOG

Vertical Scale 1 : 250

HOLE No. **YNC15**

PROJECT: YOLANDE

From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	STRUCTURES
		shale sitting in sericitic pug CONTACT: Indistinct,	Moderately Silicified,			
140.00	162.30	INTERMEDIATE LAVA GRADING WITH ACID LAVA Grey, Pink, Medium grained, Foliated, Feldspar phyric, A silicified (sericitised) felsic lava with numerous pink silicfied? feldspar phenocrysts in a fine silicified felsic matrix, it is hard to see any textures at the top of the interval but the coherent texture becomes clearer downhole as the rock becomes more obviously porphyritic, abundant leucoxenes, possible clastic textures are brecias or alteration, Thin Section required	Moderately Silicified, Moderately Sericitised,		140 150 160 170	FAULT, Shear, Pug, FIRST CLEAVAGE, A 30, Moderate foliation at 20-30 to LCA, some small shear eg 152.8m

YNC15 (values in ppm)

SAMP	FROM	TO	lgc_int	Cu	Pb	Zn	Ag	Au	Mn
40756	71.00	73.00	2.0	83	8	128	<1	0.01	1607
40757	73.00	74.90	1.9	66	<3	169	<1	0.01	1526
40758	75.30	77.50	2.2	3	<3	100	<1	0.01	1556
40759	77.50	80.20	2.7	3	<3	119	<1	<0.008	1515
40760	80.20	82.00	1.8	7	<3	101	<1	0.01	1660
40761	82.00	84.10	2.1	3	<3	81	<1	<0.008	1812
40762	89.40	91.70	2.3	3	<3	59	<1	<0.008	1817
40763	91.70	93.90	2.2	5	<3	36	<1	<0.008	1666
40764	106.30	108.40	2.1	180	<3	76	<1	<0.008	1155
40765	108.40	110.00	1.6	18	<3	31	<1	<0.008	1541
40766	110.00	112.20	2.2	9	<3	28	<1	<0.008	1419
40767	117.40	119.90	2.5	6	<3	79	<1	0.02	760
40768	119.90	122.30	2.4	2	<3	24	<1	<0.008	2025
40769	122.30	124.30	2.0	2	<3	30	<1	<0.008	1785
40770	124.30	126.30	2.0	<2	<3	26	<1	0.01	1964
40771	126.30	128.50	2.2	2	<3	27	<1	<0.008	1555
40772	128.50	130.80	2.3	<2	<3	110	<1	0.01	1619
40773	130.80	132.80	2.0	<2	<3	22	<1	0.01	1039
40774	132.80	134.80	2.0	2	<3	23	<1	0.01	1127
40775	134.80	136.30	1.5	5	<3	36	<1	0.01	1363
40776	136.30	138.10	1.8	205	7	63	<1	0.02	906
40777	138.10	139.90	1.8	38	14	227	<1	0.01	1082
40778	140.20	142.00	1.8	16	399	1560	<1	<0.008	654
40779	142.00	144.30	2.3	13	174	580	<1	0.01	691
40780	144.30	146.30	2.0	12	80	261	<1	<0.008	704
40781	146.30	148.40	2.1	12	78	212	<1	<0.008	785
40782	148.40	150.50	2.1	15	58	590	<1	<0.008	847
40783	150.50	152.30	1.8	9	30	158	<1	<0.008	878
40784	152.30	154.70	2.4	8	53	248	<1	<0.008	1117
40785	154.70	157.00	2.3	11	66	191	<1	<0.008	752
40786	157.00	158.70	1.7	12	117	469	<1	<0.008	1092
40787	158.70	160.40	1.7	24	160	1230	<1	0.01	891
40788	160.40	162.30	1.9	8	54	195	<1	<0.008	545

782149

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOG

Hole ID
YNC14

DRILLING

Location	NEWTON CREEK
Project	YOLANDE
Prospect	HENTY CANAL
Design By	P.M.Quayle
Logged By	D.Gardner
Relogged	
Commenced	5 April 1995
Completed	14 April 1995
Drilled By	ATE
Drill Rig	Gopher

OBJECTIVE

To test a zone of intense pyrite-sericite-silica alteration exposed in the Henty Canal. This zone correlates with the Newton Creek "principal target horizon" and is coincident with anomalous IP.

RESULT

A zone of intense pyrite-sericite-silica altered dacite lavas and hyaloclastites was intersected with dissapointing base metal and gold grades.

COLLAR SURVEY (AMG)

AMG mN	5360809.3	Bearing	282.0
AMG mE	379478.8	Dip	-48.0
mN		Hole Length	162.0
mE		DH Survey Type	Eastman single
RL	525.9		

DOWNHOLE SURVEY (AMG)

Depth	Bearing	Dip
0.0	-48.00	270.00
57.0	-48.00	270.00
108.0	-47.00	271.50
159.0	-42.00	270.00

SIGNIFICANT CORE LOSS

From	To	Loss

POOR GROUND CONDITION ZONES

From	To	Condition

HOLE SIZE

From	To	Size
0	162	BQ

HOLE CONDITIONS AFTER COMPLETION

Collar	
Steel Casing	
PVC Casing	
Ground Water	NIL
Wedge	
Drill Pad	

SIGNIFICANT INTERSECTIONS

From	To	Int	Cu	Pb	Zn	Ag	Au	Comments

782150

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

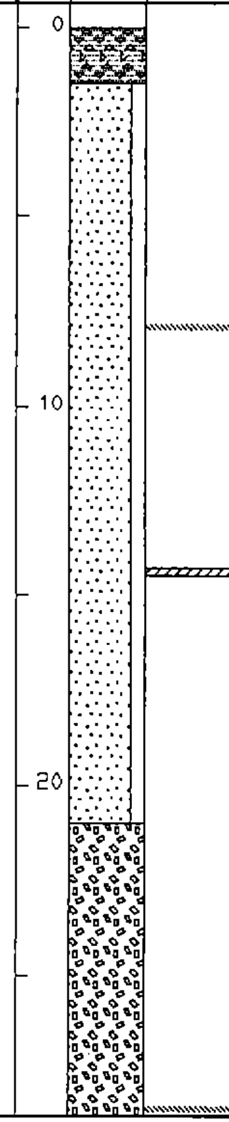
HOLE No. **YNC14**

PROJECT: YOLANDE

Vertical Scale 1 : 200

From	To	LITHOLOGY (DESCRIPTION)	ALTERATION	MINERALISATION	STRUCTURES
0.00	1.50	FLUVIOGLACIAL DEPOSITS			
1.50	21.00	SANDSTONE WITH MINOR BRECCIA CONTAINING CLASTS OF DACITE Pink, Grey, Medium grained, Coarse grained, Matrix supported, Foliated, Pk and gy clasts/pseudo clasts? (variable alteration) in a pink mx, abundant pk-gy(and bleached) feldspar xtals in the clasts (and in the mx?), possible more coherent textures 10.5-15.8m (lava?) Thin section 40111 at 18.1m CONTACT: Gradational,	Slightly Bleached, Slightly Oxidised, Slightly Sericitised. Moderately Sericitised, Moderately Chloritised, Moderately Albitised, Feldspar phenocrysts are generally pk-red (?fine hematite alteration ?after albitisation?). Dark grey chlorite alteration is overprinted (and removed in many places) by later sericite +/- silica +/- pyrite (often producing pseudo v coarse fragmental textures)		FIRST CLEAVAGE, A 40, Strong, Foliation is pervasive thoughout the hole and varies from 30-50 to LCA, most clasts are aligned eith the foliation, which wraps around feldspar phenocrysts to produce an "augen" texture in places, quartz and/or carbonate veining is common throughout the hole VEIN, 20cm of strong quartz carbonate veining
21.00	58.00	DACITE CONTAINING CLASTS OF DACITE Pink, Grey, Medium grained, Porphyritic, Foliated, Feldspar phyric, Coherent lava textures predominate, with clastic looking textures in places that could be alteration or dacite fragments incorporated in the coherent facies, possible auto breccia texture in places, abundant pk-rd Fs phenocrysts to 2mm, abundant leucoxene. CONTACT: Gradational,			

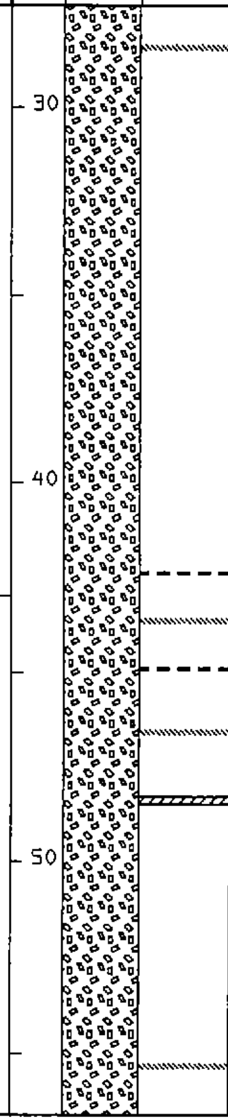
GRAPHIC



782151

PROJECT: YOLANDE	PASMINCO EXPLORATION DIAMOND DRILL CORE LOG Vertical Scale 1 : 200
HOLE No.	YNC14
	Page 2 of 6

From	To	LITHOLOGY	ALTERATION	MINERALISATION	GRAPHIC: Depth / Lith / Structures	STRUCTURES
						FIRST CLEAVAGE, A 40.
						FAULT, A 30, Shear, Pug.
				DISSEMINATED, trace pyrite disseminated, as stringers.		FIRST CLEAVAGE, A 40.
						FAULT, A 35, Shear, Pug.
						FIRST CLEAVAGE, A 40.
						VEIN, 20cm of carbonate veining brecciates dacite



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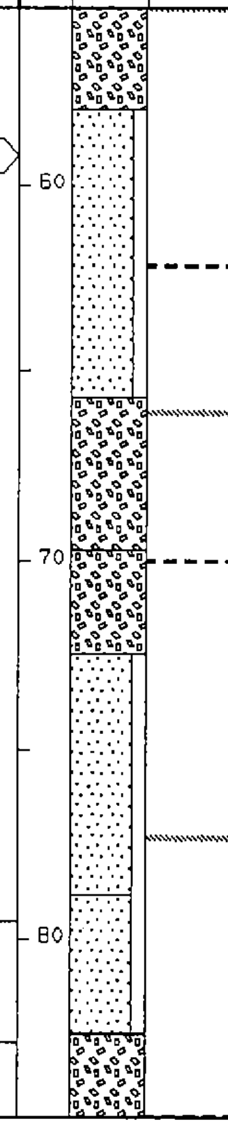
PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 200

HOLE No. **YNC14**

PROJECT: YOLANDE

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
58.00	65.70	SANDSTONE CONTAINING CLASTS OF DACITE Grey, Pink, Medium grained, Coarse grained, Brecciated, Foliated, Feldspar phyric, Lithic, More clastic textures, may be due to alteration, but there are some definite fragments of fine pk dacite/feldspar up to 1cm, some patches appear polymict, some auto brecciated Thin Section 40112 at 65.0m CONTACT: Gradational,		VEIN, trace sphalerite galena pyrite DISSEMINATED, 5% pyrite as stringers, in veins, associated with alteration.	FIRST CLEAVAGE, A 45, FAULT, A 30, Shear, Pug,
65.70	69.70	DACITE Dark, Grey, Medium grained, Massive, Porphyritic, Feldspar phyric, Massive lava/sill with rd-pk Fs phenocrysts CONTACT: Conformable abrupt, at 45 degrees to Possible alteration front, colour change from gy to pk mx, but texture is the same, sharp change			FIRST CLEAVAGE, A 45, Strong,
69.70	72.50	DACITE Pink, Medium grained, Massive, Porphyritic, Feldspar phyric, As above with pk matrix, abundant leucoxene CONTACT: Gradational,			FAULT, A 40, Shear, Pug,
72.50	78.80	SANDSTONE MIXED WITH DACITE Grey, Green, Medium grained, Coarse grained, Foliated, Increase in clastic textures, decrease in amount of dacite and pk Fs xtals, possibly due to mixing of dacite with a sediment CONTACT: Conformable abrupt, at 45 degrees to			
78.80	82.50	SANDSTONE GRADING WITH CONGLOMERATE Grey, Green, Medium grained, Coarse grained, Massive, Dark gy-gn(ser) sediment? (no pk Fs), some wispy chlorite textures, this texture may again be an alteration effect Thin Section 40113 at 79.9m CONTACT: Gradational,	Highly Sericitised, Highly Silicified, Patches of strong sericite +/- silica +/- pyrite (?with chlorite wisps), strongly silicified patches after 82.5	DISSEMINATED, 5% pyrite as stringers, associated with alteration, minor chalcopyrite disseminated, 2-5% py, cp common below 80.3m,	
82.50	87.40	DACITE AND BRECCIA Grey, Pink, Fine grained, Very coarse grained, Dacite clasts and blocks up to 40cm, within a sedimentary? dacitic mx (pk fragments and Fs xtals), 86.7		DISSEMINATED, 1% pyrite as stringers, associated with alteration, in veins, trace chalcopyrite	FIRST CLEAVAGE, A 45,

GRAPHIC



PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 200

HOLE No. **YNC14**

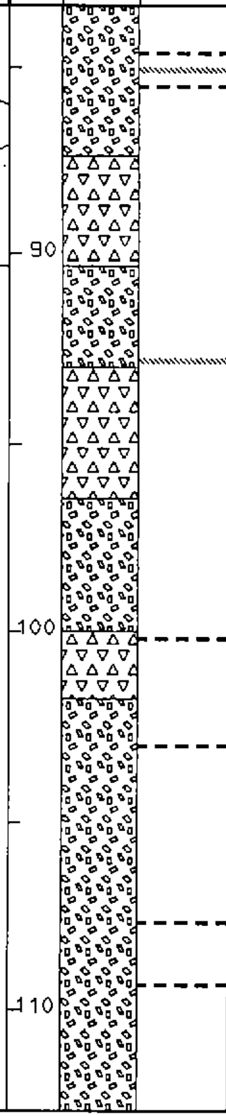
PROJECT: YOLANDE

DESCRIPTION

From	To	LITHOLOGY	ALTERATION	MINERALISATION
		grained, Dacite clasts and blocks up to 40cm, within a sedimentary? dacitic mx (pk fragments and Fs xtals), 86.7 to 87.4m has generally small dacite fragments <3mm, very altered, Thin Section 40117 83.6m CONTACT: Gradational,	Slightly Sericitised, Moderately Chloritised, Moderately Albitised, Feldspar phenocrysts and fine dacite clasts are generally pk-red (?fine hematite alteration ?after albitisation?). Dark grey chlorite alteration is largely overprinted by strong sericite silica pyrite alteration	associated with alteration, in veins, trace chalcopyrite DISSEMINATED, 5% pyrite as stringers, in veins, associated with alteration.
87.40	90.30	BRECCIA GRADING WITH CONGLOMERATE CONTAINING CLASTS OF DACITE Grey, Pink, Coarse grained, Clast supported, Reworked, Differences in clasts may be due to alteration, mx is grn-gy as before, high volcaniclastic component? CONTACT: Gradational,		DISSEMINATED, 2% pyrite as stringers, in veins, associated with alteration, trace galena 1-5% py, trace galena in quartz veins at 89.5m.
90.30	93.00	DACITE BRECCIA Grey, Pink, Very coarse grained, Clast supported, Large 10cm blocks of pk fg dacite in gy (mainly volcaniclastic? with pk-rd Fs to 2mm) mx CONTACT: Gradational,		DISSEMINATED, 1% pyrite as stringers, associated with alteration, in veins, 0-5% py, 1% overall?.
93.00	96.50	BRECCIA AND SANDSTONE CONTAINING CLASTS OF DACITE Grey, Pink, Medium grained, Coarse grained, Rd-pk fg dacite clasts and Fs xtals (generally <3mm, rarely to 2cm) scattered in a gy-gn volcaniclastic? mx CONTACT: Conformable abrupt, at 45 degrees to		
96.50	100.00	DACITE Grey, Pink, Medium grained, Massive, Porphyritic, Feldspar phyric, Some textures suggestive of auto brecciation and minor reworking in places, possible minor sediment input CONTACT: Gradational,		
100.00	101.80	BRECCIA GRADING WITH CONGLOMERATE CONTAINING CLASTS OF DACITE Grey, Pink, Very coarse grained, Reworked, Slightly reworked? CONTACT: Conformable mixed,		
101.80	121.00	DACITE WITH MINOR BRECCIA WITH MINOR SANDSTONE Grey, Pink, Medium grained, Massive, Porphyritic, Feldspar phyric, Some auto clastic and clastic textures may be due to alteration, some possible flowbanding at 60 to LCA (more definite at bottom of interval, Thin Section 40114 at 108.05m CONTACT: Faulted,		

GRAPHIC

Depth | Lith | Structures



STRUCTURES

- FIRST CLEAVAGE, A 45.
- FAULT, A 40, Shear, Pug.
- FIRST CLEAVAGE, A 45.
- FAULT, A 80, Shear, Pug.
- FIRST CLEAVAGE, A 40.
- FAULT, Pug.
- FAULT, A 30, Pug.
- FAULT, Shear, Pug.
- FAULT, A 40, Pug.

78157

DESCRIPTION					GRAPHIC		
From	**To**	**LITHOLOGY**	**ALTERATION**	**MINERALISATION**	**Depth**	**STRUCTURES**	
					120		
121.00	123.50	DACITE Khaki, Medium grained, Massive, Porphyritic, Feldspar phyric, Pk-bn Fs xtals to 3mm, mnr autobreccia CONTACT: Conformable mixed,		DISSEMINATED, trace pyrite		FAULT, A 80, Shear, Pug. FIRST CLEAVAGE, A 50, Strong,	
123.50	138.70	DACITE AND BRECCIA Grey, Pink, Medium grained, Porphyritic, Massive, Feldspar phyric, Large red Fs phenocrysts to 2mm, some possible auto breccia textures and ? small bands of volcaniclastic? CONTACT: Indistinct,		DISSEMINATED, 1% pyrite as stringers, associated with alteration, in veins, 1-2% py, locally to 5%. DISSEMINATED, 2% pyrite 2-5% py.	130	A 30, Shear, Pug. A 50, Shear, Pug.	
138.70	141.80	DACITE Dark, Grey, Fine grained, Massive, Porphyritic, Feldspar phyric, Red Fs phenocrysts to 3mm, some patches of pk dacite, Thin Section 40115 at 140.9m		DISSEMINATED, 5% pyrite DISSEMINATED, 10% pyrite	140		

782155

PASMINCO EXPLORATION

DIAMOND DRILL CORE LOG

HOLE No. YNC14

PROJECT: YOLANDE

Vertical Scale 1 : 200

From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	STRUCTURES
		Feldspar phyric, Red Fs phenocrysts to 3mm, some patches of pk dacite, Thin Section 40115 at 140.9m CONTACT: Conformable mixed,		DISSEMINATED, 10% pyrite	140	
141.80	162.00	DACITE BRECCIA Pink, Grey, Medium grained, Very coarse grained, Porphyritic, Brecciated, Autobrecciated, abundant leucoxene		DISSEMINATED, 1% pyrite py 1% overall, locally to 5%.		VEIN, Quartz,
					150	
			Moderately Carbonatised, Moderately Sericitised, Moderately Albitised, As before but with a marked increase in the amount of carbonate both veining and in the matrix			
				STRINGER, trace sphalerite galena pyrite	160	
				DISSEMINATED, 1% pyrite locally py to 5%.		

782156

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID YNC14

PHYSICAL PROPERTIES / RECOVERIES

Depth	Rec %	Mag	SG	Formn	Lith	Depth	Rec %	Mag	SG	Formn	Lith	Depth	Rec %	Mag	SG	Formn	Lith
1.50	13	0.02		NCD	sst	46.50	100	0.00		NCD	Ld	88.50	100	0.06		NCD	bx
4.50	25	0.18		NCD	sst	48.00	100	0.19		NCD	Ld	90.00	100	0.04		NCD	bx
6.00	100	0.32		NCD	sst	49.50	100	0.19		NCD	Ld	91.50	100	0.06		NCD	Ld
7.50	100	0.31		NCD	sst	51.00	100	0.22		NCD	Ld	93.00	100	0.06		NCD	bx
9.00	100	0.26		NCD	sst	52.50	100	0.33		NCD	Ld	94.50	100	0.05		NCD	bx
10.50	100	0.35		NCD	sst	54.00	100	0.08		NCD	Ld	96.00	100	0.02		NCD	bx
12.00	100	0.14		NCD	sst	55.50	100	0.22		NCD	Ld	97.50	100	0.04		NCD	Ld
13.50	100	0.12		NCD	sst	57.00	100	0.16		NCD	Ld	99.00	100	0.06		NCD	Ld
15.00	100	0.23		NCD	sst	58.50	100	0.13		NCD	sst	100.50	100	0.01		NCD	bx
16.50	100	0.21		NCD	sst	60.00	100	0.04		NCD	sst	102.00	100	0.06		NCD	Ld
18.00	100	0.22		NCD	sst	61.50	100	0.14		NCD	sst	103.50	100	0.10		NCD	Ld
19.50	100	0.23		NCD	sst	63.00	100	0.05		NCD	sst	105.00	100	0.05		NCD	Ld
21.00	100	0.20		NCD	Ld	64.50	100	0.16		NCD	sst	106.50	100	0.01		NCD	Ld
22.50	100	0.24		NCD	Ld	66.00	100	0.08		NCD	Ld	108.00	100	0.11		NCD	Ld
24.00	100	0.16		NCD	Ld	67.50	100	0.03		NCD	Ld	109.50	100	0.04		NCD	Ld
25.50	100	0.12		NCD	Ld	69.00	100	0.06		NCD	Ld	111.00	100	0.03		NCD	Ld
27.00	100	0.20		NCD	Ld	70.50	100	0.14		NCD	Ld	112.50	100	0.04		NCD	Ld
28.50	100	0.26		NCD	Ld	72.00	100	0.13		NCD	Ld	114.00	100	0.04		NCD	Ld
30.00	100	0.16		NCD	Ld	73.50	100	0.13		NCD	sst	115.50	100	0.07		NCD	Ld
31.50	100	0.15		NCD	Ld	75.00	100	0.15		NCD	sst	116.90	114	0.14		NCD	Ld
33.00	100	0.18		NCD	Ld	76.50	100	0.16		NCD	sst	120.00	97	0.05		NCD	Ld
34.50	100	0.19		NCD	Ld	78.00	100	0.06		NCD	sst	123.00	100	0.16		NCD	Ld
35.80	119	0.10		NCD	Ld	79.50	100	0.06		NCD	sst	126.00	100	0.14		NCD	Ld
37.40	100	0.21		NCD	Ld	81.00	100	0.04		NCD	sst	129.00	100	0.08		NCD	Ld
39.00	94	0.16		NCD	Ld	82.50	100	0.03		NCD	Ld	130.50	100	0.11		NCD	Ld
40.50	100	0.11		NCD	Ld	84.00	100	0.04		NCD	Ld	132.00	100	0.05		NCD	Ld
43.50	50	0.20		NCD	Ld	85.50	100	0.01		NCD	Ld	133.50	100	0.09		NCD	Ld
45.00	100	0.06		NCD	Ld	87.00	100	0.03		NCD	Ld	135.00	100	0.07		NCD	Ld

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
YNC14

PHYSICAL PROPERTIES / RECOVERIES

Depth	Rec %	Mag	SG	Formn	Lith
136.20	100	0.08		NCD	Ld
137.80	106	0.11		NCD	Ld
139.30	107	0.05		NCD	Ld
140.90	100	0.09		NCD	Ld
141.00	100	0.07		NCD	Ld
142.50	100	0.11		NCD	Ld
144.00	100	0.20		NCD	Ld
145.50	100	0.06		NCD	Ld
147.00	100	0.01		NCD	Ld
148.50	100	0.10		NCD	Ld
150.00	100	0.17		NCD	Ld
153.00	100	0.11		NCD	Ld
154.50	100	0.05		NCD	Ld
156.00	100	0.08		NCD	Ld
157.50	100	0.10		NCD	Ld
159.00	100	0.05		NCD	Ld
160.50	100	0.06		NCD	Ld
162.00	100	0.24		NCD	Ld

781588

YNC14 (values in ppm unless stated)

SAMPLE	FROM	TO	INT	Cu	Pb	Zn	Ag	Au	Fe%	Ba	As	Mn
40423	65.7	67.7	2.0	38	205	216	3	0.01	5.41	507	36	357
40424	67.7	69.7	2.0	35	126	128	3	<0.008	4.94	410	33	435
40737	69.7	72.0	2.3					0.01				
40738	72.0	74.6	2.6					<0.008				
40739	74.6	77.0	2.4					<0.008				
40425	77.0	79.0	2.0	48	49	109	1	<0.008	3.45	549	24	826
40426	79.0	81.0	2.0	419	65	47	8	0.03	7.39	628	28	192
40427	81.0	83.0	2.0	303	72	45	4	0.05	6.16	589	40	67
40428	83.0	85.0	2.0	42	85	65	1	0.02	4.21	567	75	129
40429	85.0	87.0	2.0	62	113	65	2	0.02	4.61	782	51	132
40430	87.0	89.0	2.0	25	88	56	1	0.01	3.18	752	75	279
40740	89.0	90.7	1.7					0.04				
40741	90.7	93.0	2.3					0.01				
40431	93.0	95.0	2.0	20	47	77	1	<0.008	2.85	774	16	235
40742	95.0	97.5	2.5					<0.008				
40743	97.5	99.6	2.1					<0.008				
40744	99.6	102.0	2.4					<0.008				
40745	102.0	104.1	2.1					<0.008				
40746	104.1	106.0	1.9					0.01				
40432	106.0	108.0	2.0	16	43	29	1	0.01	2.79	683	33	253
40747	108.0	111.0	3.0					0.01				
40433	111.0	113.0	2.0	13	13	29	<1	<0.008	3.72	731		268
40434	113.0	115.0	2.0	11	15	46	<1	<0.008	3.85	737		218
40435	115.0	117.0	2.0	11	13	75	<1	0.02	3.48	566		292
40436	117.0	119.0	2.0	12	16	44	<1	<0.008	3.94	526		318
40437	119.0	121.0	2.0	12	13	58	<1	<0.008	3.47	439		443
40438	123.5	125.5	2.0	13	27	57	6	<0.008	3.75	591		319
40439	125.5	127.5	2.0	16	38	64	<1	<0.008	3.54	739		743
40440	127.5	129.5	2.0	13	12	44	<1	<0.008	3	768		394
40441	129.5	131.5	2.0	13	21	63	<1	<0.008	3.58	826		416
40442	131.5	133.5	2.0	14	38	64	<1	<0.008	3.56	696		390
40443	133.5	135.8	2.3	14	19	69	<1	<0.008	2.96	787		356
40444	135.8	137.8	2.0	18	103	407	<1	<0.008	4.2	855		639
40445	137.8	139.8	2.0	20	56	59	<1	<0.008	4.36	914		552
40446	139.8	141.8	2.0	26	98	70	3	<0.008	6.91	975		376
40447	141.8	143.8	2.0	13	36	86	<1	<0.008	2.91	720		731
40448	143.8	145.8	2.0	9	61	285	<1	<0.008	2.08	629		553
40449	145.8	147.8	2.0	14	148	639	<1	<0.008	2.71	748		577
40450	147.8	149.8	2.0	11	26	142	<1	<0.008	2.81	673		554
40451	149.8	151.8	2.0	9	30	154	<1	<0.008	2.93	619		738
40452	151.8	153.8	2.0	8	38	159	<1	<0.008	2.74	653		970
40453	153.8	155.8	2.0	10	18	57	<1	<0.008	2.74	601		931
40454	155.8	157.8	2.0	10	24	58	<1	<0.008	2.51	608		900
40455	157.8	160.0	2.2	9	36	92	<1	<0.008	1.99	576		1077
40456	160.0	162.0	2.0	11	139	629	<1	<0.008	2.43	586		660

SAMPLE	FROM	TO	INT	Al2O3	SiO2	TiO2	Fe2O3	MnO	CaO	K2O	MgO	P2O5
40423	65.7	67.7	2.0	14.4	63.8	0.48	7.26	0.05	1.52	3.12	0.57	0.12
40433	111.0	113.0	2.0	13.2	68.3	0.46	5.16	0.03	1.35	2.13	0.41	0.11

SAMPLE	FROM	TO	INT	Na2O	SO3	LOI	Al	Sr	V	Nb	Y	Zr
40423	65.7	67.7	2.0	3.39	1	4.74	43					
40433	111.0	113.0	2.0	4.25	5.07	3.73	31	120	52	10	34	217

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
YNC13

DRILLING

Location	NEWTON CREEK
Project	YOLANDE
Prospect	NEWTON CREEK
Design By	P.M.Quayle
Logged By	P.M.Quayle
Relogged	
Commenced	3rd February 1995
Completed	28th March 1995
Drilled By	East Coast Drilling
Drill Rig	Longyear LM38

OBJECTIVE

To test for mineralization and alterationin the "spillway sulphide clast horizon" coincident with magnetic depletion zone in the largly untested area south of the Newton Creek Spillway.

RESULT

The hole ended in a zone of pyrite/sericite/carbonate/silica alteration at least 200m thick and increasing down hole. The hole stopped because of the shallow angle / drilling conditions. Gold and base metal values were dissapointing. The hole appeared to be entering the target zone at end of hole.

COLLAR SURVEY (AMG)

AMG mN	5357479.0	Bearing	274.0
AMG mE	379697.2	Dip	-45.0
mN		Hole Length	506.7
mE		DH Survey Type	Eastman single
RL	502.6		

DOWNHOLE SURVEY (AMG)

Depth	Bearing	Dip
0.0	-45.00	262.00
40.0	-43.20	259.00
80.0	-40.50	259.00
120.0	-37.00	256.00
160.0	-30.00	255.00
200.0	-34.00	252.00
240.0	-27.50	249.00
280.0	-15.00	248.00
330.0	-13.25	247.00
400.0	-11.00	246.00
506.0	-9.00	245.00

SIGNIFICANT CORE LOSS

From	To	Loss

POOR GROUND CONDITION ZONES

From	To	Condition

HOLE SIZE

From	To	Size
0	3	HQ
3	506.7	NQ

HOLE CONDITIONS AFTER COMPLETION

Collar	
Steel Casing	
PVC Casing	NIL
Ground Water	
Wedge	
Drill Pad	Sump filled in and site roughly leveled.

SIGNIFICANT INTERSECTIONS

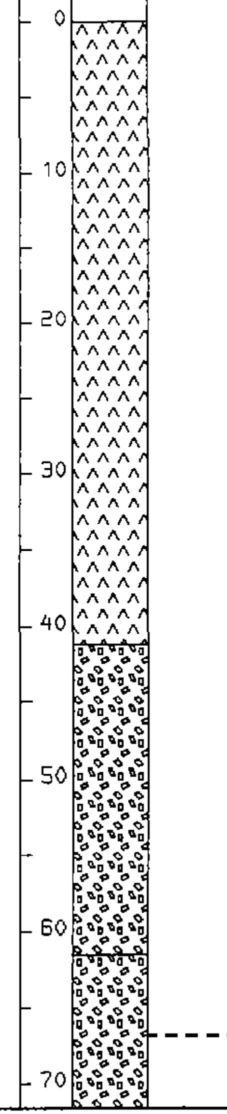
From	To	Int	Cu	Pb	Zn	Ag	Au	Comments

78216

DESCRIPTION					STRUCTURES
From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
0.00	41.20	ANDESITE Dark, Green, Porphyritic, Feldspar phyric, Hornblende phyric, Abundant 1 to 4mm feldspars and hornblends (altered to chlorite and/or carbonate), in a fine grained green chloritic? matrix. Abundant fine leucoxene throughout. CONTACT: Conformable mixed,	Moderately Carbonatised, Moderately Chloritised, Incipient carbonate alteration throughout, carbonate weathering pits in part. Chlorite alteration tends to obliterate phenochryst texture.		BROKEN CORE, Broken on low angle joints, with oxide staining. BROKEN CORE, Quartz, Chlorite.
41.20	61.50	DACITE Green, Grey, Porphyritic, Feldspar phyric, Hornblende phyric, Hyaloclastite texture in part, feldspars are typically pink (K feldspar altered), and matrix is paler more sericitic, but probably similar to above interval. Abundant fine leucoxene throughout. CONTACT: Conformable mixed,	Moderately Carbonatised, Incipient carbonate alteration throughout, and minor zones with fine carbonate filled gash veins.		BROKEN CORE, Broken on iron stained cross cutting joint sets.
61.50	80.80	DACITE Green, Grey, Hyaloclastitic, Feldspar phyric, Hornblende phyric, Similar to above interval but with more pronounced hyaloclastite texture. CONTACT: Conformable mixed,			FAULT. Pug. Broken oxidised zone.

GRAPHIC

Depth | Lith | Structures



PASMINCO EXPLORATION

DIAMOND DRILL CORE LOG

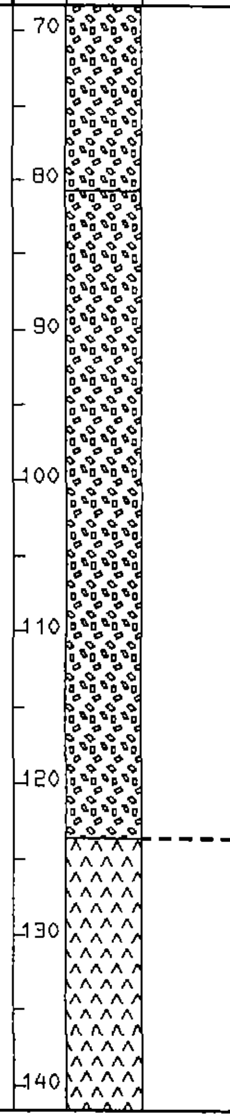
PROJECT: YOLANDE

Vertical Scale 1 : 500

HOLE No. **YNC13**

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
					BROKEN CORE. Broken on oxidised cross cutting joint sets.
80.80	123.60	DACITE Grey, Green, Hyaloclastitic, Feldspar phyric, Well developed hyaloclastite texture at contact. Similar to above intervaals but more felsic in appearance. Leucoxene size and abundance similar to above intervals. CONTACT: Conformable mixed,			BROKEN CORE. Broken on oxidised cross cutting joint sets. BROKEN CORE. Broken on low angle joint sets. BROKEN CORE. Broken on oxidised low angle joint sets. FAULT. Quartz. 10mm qtz vein at lithological contact at 20 degrees to LCA.
123.60	197.60	ANDESITE Dark, Green, Fine grained, Massive, Trace indistinct hyaloclastite texture in part. CONTACT: Gradational, Irregular mixed conformable contact.	Slightly Carbonatised. Incipient carbonate alteration throughout, and minor carbonate veins.		

GRAPHIC (Depth / Lith / Structures)



PASMINCO EXPLORATION

DIAMOND DRILL CORE LOG

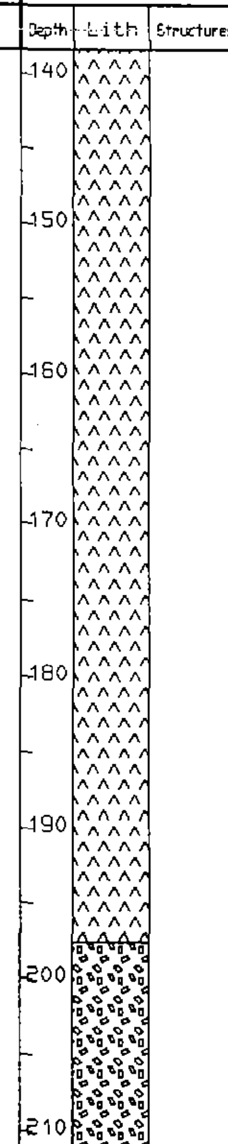
Vertical Scale 1 : 500

HOLE No. **YNC13**

PROJECT: YOLANDE

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
					BROKEN CORE. Broken on cross cutting oxidised joint sets.
197.60	244.80	DACITE Grey, Hyaloclastitic, Feldspar phyric, Abundant 1 to 3mm pink feldspars. Irregular texture, possibly hyaloclastite, indistinct pumiceous appearance in part. Minor irregular 2cm bands of pale grey very fine siliceous rock with abundant very fine pyrite, possibly encorporated mudstone, or feeder vein. CONTACT: Conformable abrupt.	Slightly Carbonatised. Incipient carbonate alteration throughout, and minor fine carbonate veinlets.		

GRAPHIC



PASMINCO EXPLORATION

DIAMOND DRILL CORE LOG

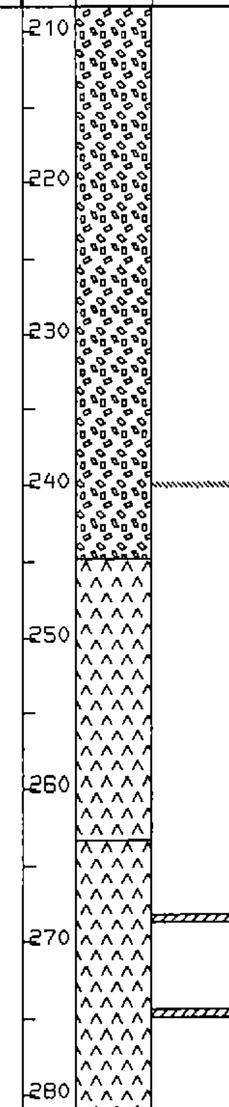
PROJECT: YOLANDE

Vertical Scale 1 : 500

HOLE No. **YNC13**

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
					FIRST CLEAVAGE, A 75,
244.80	263.30	ANDESITE Dark, Green, Massive, Feldspar phyric, Abundant fine feldspars throughout, and leucoxene in part. Abundant veinlet or gash fill calcite throughout. CONTACT: Conformable mixed,			
263.30	291.00	ANDESITE Dark, Green, Massive, Hornblende phyric, Similar to above interval but with abundant distinct 1-5mm hornblende crystals throughout. CONTACT: Gradational,	Slightly Epidotised. Associated with quartz chlorite veining.		VEIN, A 30, Quartz, Chlorite, Abundant epidote. VEIN, Quartz, Chlorite, Abundant epidote, massive white quartz, and dark green coarse grained chlorite.

GRAPHIC (Depth / Lith / Structures)

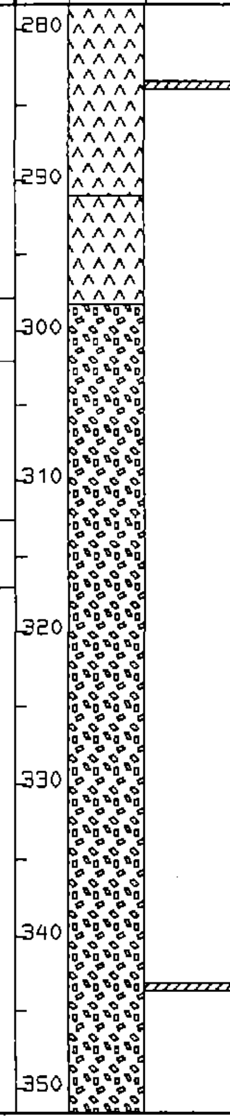


DESCRIPTION

From	To	LITHOLOGY	ALTERATION	MINERALISATION
291.00	298.20	ANDESITE Dark, Green, Massive, Similar to above intervals without large visible hornblende crystals. CONTACT: Conformable mixed, Irregular mixed contact.		
298.20	370.80	DACITE Grey, Hyaloclastitic, Feldspar phyric, Minor 2 to 10cm bands of polymict fine sandstone at 313m and 332m. Unusual fine grained grey vein like structures at 333m and 343m. 10cm zone of mafic intermixed with dacite at 328.3m and 361.6m. Distinct hyaloclastite throughout, clasts 3 to 30mm monomict fragmental dacite. Alteration increasing downhole obscures texture. Possible peperitic texture towards 370m. CONTACT: Conformable mixed, Not well preserved but peperite in dacite and irregular mixing suggest conformity.	Slightly Silicified. Slightly Sericitised. Slightly Carbonatised. Slightly Sericitised, Slightly Carbonatised, Incipient alteration throughout.	DISSEMINATED, abundant pyrite disseminated. DISSEMINATED, minor pyrite disseminated. DISSEMINATED, abundant pyrite disseminated. DISSEMINATED, minor pyrite disseminated.

GRAPHIC

Depth | Lith | Structures



STRUCTURES

VEIN, Quartz, Chlorite, Zone of massive white quartz, dark green chlorite and pale green epidote.

BROKEN CORE, Zone of broken core with Fe stained joints, minor quartz-chlorite in part, minor pug in part.

BROKEN CORE, Broken on low angle fractures.

VEIN, Quartz, Chlorite, Massive white quartz-dark green chlorite vein.

782165

PASMINCO EXPLORATION

DIAMOND DRILL CORE LOG

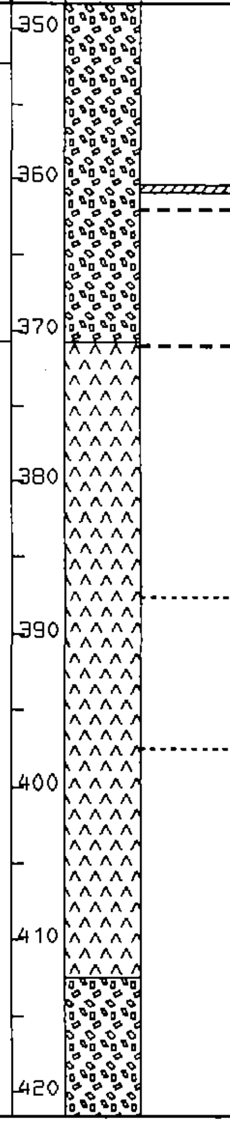
PROJECT: YOLANDE

Vertical Scale 1 : 500

HOLE No. **YNC13**

From	To	LITHOLOGY	ALTERATION	MINERALISATION
			Slightly Sericitised. Slightly Silicified. Slightly Carbonatised.	DISSEMINATED, abundant pyrite disseminated.
370.80	412.40	ANDESITE Dark, Grey, Massive, Hornblende phyric, Feldspar phyric, Similar to previous andesites, with zone of quartz amygdals at 409 to 411m. at 80 degrees to LCA. Abrupt contact, possible chilled margin suggesting intrusive contact steep to the east.		DISSEMINATED, minor pyrite disseminated.
412.40	428.00	DACITE Grey, Massive, Feldspar phyric, Carbonate altered feldspars, abundant leucoxene. CONTACT: Gradational.	Slightly Silicified. Slightly Sericitised. Slightly Carbonatised.	

GRAPHIC (Depth / Lith / Structures)



STRUCTURES

- VEIN, Quartz, Chlorite. Zone of massive 2 to 20cm white quartz - dark green chlorite veins.
- FAULT, Pug. Badly preserved in core.
- FAULT, Breccia.
- BROKEN CORE.
- FRACTURE, Zone of low angle fractures with calcite.
- FRACTURE, Zone of Fe stained fractures.

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 500

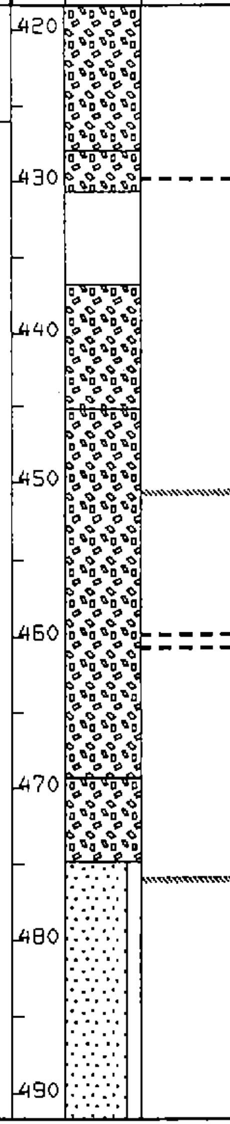
HOLE No. **YNC13**

PROJECT: YOLANDE

DESCRIPTION

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
428.00	436.70	DACITE Grey, Hyaloclastitic, Polymict, Feldspar phyric, Hyaloclastite mixed with polymict clastic, clasts 5 to 15mm, indistinct, mafic, siliceous and carbonate altered types. CONTACT: Conformable mixed,	Slightly Carbonatised, Slightly Sericitised, Slightly Silicified, Straw coloured Mn carbonate alteration of pseudo?clasts.	DISSEMINATED, abundant pyrite disseminated,	FAULT, A 30, Pug,
436.70	445.20	DACITE Grey, Massive,			
445.20	469.30	DACITE Grey, Hyaloclastitic, Polymict, Feldspar phyric, Hyaloclastite mixed with polymict clast including: fine grained pyritic sediments, finely vesicular mafics, carbonate altered, and silica altered types from 3 to 15mm in size. CONTACT: Conformable abrupt,			FIRST CLEAVAGE, A 75, Sub-vertical, FAULT, A 15, Pug, FAULT, A 45, Pug, BROKEN CORE, Cavity
469.30	474.80	DACITE Grey, Green, Fine grained, Massive, Unusual texture? no feldspars, resembles massive pumiceous? sandstone. CONTACT: Conformable abrupt,			BEDDING, A 55, Parallel to cleavage.
474.80	506.70	SANDSTONE GRADING TO SILTSTONE Grey, Cream, Fine grained, Pumiceous, Zone comprising bands of indistinct and highly altered fine grained pumiceous? debris, with minor 5cm bands of indistinct polymict clastic. Alteration in the finer grained parts tending to augen silica sericite texture. Possibly close to the Newton Creek Dacite / Pumice breccia contact.	Moderately Silicified, Moderately Sericitised, Moderately Carbonatised, Increase in silica/sericite alteration. Highly Silicified, Highly Sericitised, Slightly Carbonatised, Augen texture in part. Alteration increasing		FIRST CLEAVAGE, A 60, Sub-vertical

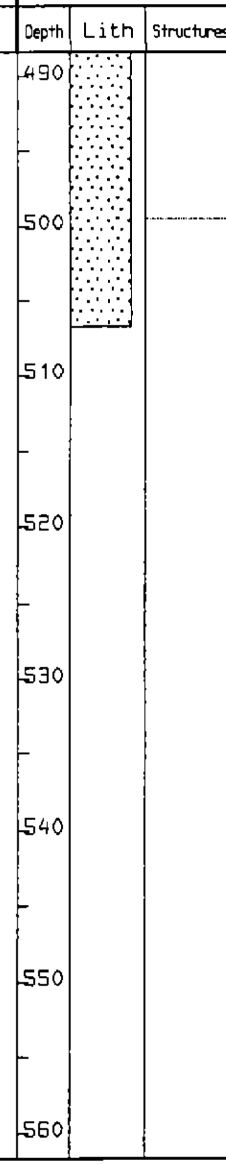
GRAPHIC (Depth, Lith, Structures)



PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 500

HOLE No. **YNC13**

PROJECT: YOLANDE

From	To	LITHOLOGY	ALTERATION	MINERALISATION	GRAPHIC	STRUCTURES
			carbonatised. Augen texture in part. Alteration increasing downhole. Resembles Hercules footwall alteration in part.			BEDDING. Sub-vertical fine laminations.

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PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
YNC13

ASSAY RESULTS

From	To	Samp	Int	Cu	Pb	Zn	Ag	Au	Fe	Ba	As	Mn
297.80	299.80	37984	2.0	24	11	56	<1	<0.008		1140		527
300.00	301.60	37985	1.6	22	9	63	<1	<0.008		1231		696
312.30	313.60	37986	1.3	17	21	54	<1	<0.008		1189		685
313.60	315.50	37987	1.9	16	18	66	<1	<0.008		937		857
321.00	323.60	37988	2.6	16	28	60	<1	<0.008		1050		597
323.60	328.20	37989	4.6	13	51	72	<1	<0.008		1435		380
352.20	353.70	37990	1.5	11	16	37	<1	0.17		845		516
353.70	355.30	37991	1.6	10	27	37	<1	<0.008		721		619
364.50	366.00	37992	1.5	54	25	91	<1	<0.008	3.81	991		476
368.00	369.80	37993	1.8	21	38	86	<1	<0.008	3.59	975		528
369.80	370.70	37994	0.9	40	56	113	<1	<0.008	4.50	1350		857
370.70	372.00	37995	1.3	42	21	85	<1	<0.008	4.89	1450		1037
376.70	379.00	37996	2.3	42	32	106	<1	<0.008	6.26	1370		674
379.00	381.10	37997	2.1	38	14	86	<1	<0.008	5.31	1160		986
391.60	393.90	37998	2.3	36	43	110	<1	<0.008	5.33	1110		933
408.00	410.70	37999	2.7	15	49	135	<1	<0.008	4.95	1110		890
410.70	413.10	38000	2.4	28	12	66	<1	<0.008	5.40	1080		885
413.10	415.70	37968	2.6	37	21	111	<1	<0.008	4.67	1130		739
423.90	426.00	37969	2.1	12	18	81	<1	<0.008	3.23	510		866
426.00	428.40	37970	2.4	12	30	109	<1	<0.008	3.27	1040		652
428.40	431.40	37971	3.0	11	25	64	<1	<0.008	3.15	1070		487
441.30	444.20	37972	2.9	14	20	72	<1	<0.008	3.64	972		612
444.20	447.00	37973	2.8	11	24	70	<1	<0.008	3.12	911		734
447.00	449.90	37974	2.9	10	25	89	<1	<0.008	3.49	964		447
449.90	452.70	37975	2.8	12	25	87	<1	<0.008	3.20	988		222
452.70	455.90	37976	3.2	17	63	205	<1	<0.008	3.44	954		347
455.90	458.60	40404	2.7	13	52	107	<1	<0.008	3.84	941		257
458.60	461.10	40405	2.5	14	29	107	<1	<0.008	3.57	917		258
461.10	464.00	40406	2.9	12	26	121	<1	<0.008	3.46	899		458
464.00	468.30	40407	4.3	18	19	93	<1	<0.008	3.70	978		257
468.30	471.40	40408	3.1	16	12	56	<1	<0.008	3.83	759		506
471.40	474.10	40409	2.7	16	8	35	<1	<0.008	2.91	825		494
474.10	477.00	40410	2.9	14	11	38	<1	<0.008	3.11	908		346
477.00	478.30	40411	1.3	20	8	30	<1	<0.008	3.43	976		532
478.30	479.70	40412	1.4	76	11	75	<1	<0.008	5.26	760		290
479.70	481.60	40413	1.9	46	8	40	<1	<0.008	3.33	820		357
481.60	484.20	40414	2.6	29	8	41	<1	<0.008	3.56	784		436
484.20	486.90	40415	2.7	10	15	40	<1	<0.008	3.02	826		484
486.90	489.40	40416	2.5	17	24	57	<1	<0.008	3.27	888		471
489.40	492.60	40417	3.2	14	37	199	<1	<0.008	3.15	852		598
492.60	495.30	40418	2.7	21	50	110	<1	<0.008	3.40	896		276
495.30	498.00	40419	2.7	21	75	262	<1	<0.008	3.17	883		377
498.00	501.10	40420	3.1	31	52	164	<1	<0.008	3.41	837		430
501.10	503.70	40421	2.6	89	13	78	<1	<0.008	5.73	636		751
503.70	506.70	40422	3.0	27	56	161	<1	<0.008	2.95	860		273

YNC13

SAMP	FROM	TO	interval	Al2O3	SiO2	TiO2	Fe2O3	MnO	CaO	K2O	MgO	P2O5	Na2O	SO3	LOI	AI
37977	13.70	14.20	0.5	15.70	55.30	0.49	7.97	0.13	5.40	2.25	2.88	0.19	3.02	0.03	6.08	38
37978	64.50	64.90	0.4	14.80	65.60	0.50	5.98	0.09	1.55	3.67	1.90	0.15	1.86	0.05	3.27	62
37979	151.40	151.90	0.5	14.90	55.40	0.45	7.79	0.11	5.49	2.58	3.54	0.18	2.42	0.02	6.63	44
37980	249.40	249.90	0.5	13.90	56.40	0.46	6.30	0.11	7.09	2.70	2.80	0.15	2.30	0.10	7.50	37
37981	310.00	310.60	0.6	13.80	66.70	0.46	4.50	0.10	2.98	2.74	1.24	0.13	3.43	0.61	3.16	38
37982	381.10	381.60	0.5	15.20	57.70	0.48	7.87	0.15	4.13	1.83	3.78	0.18	2.83	0.99	4.52	45
37983	419.40	419.80	0.4	13.90	63.00	0.47	4.95	0.13	4.29	2.99	1.33	0.14	2.13	1.51	4.61	40

YNC13 (values in ppm)

SAMP	FROM	TO	interval	Rb	Sr	V	Nb	Y	Zr
37977	13.70	14.20	0.5	63	330	204	6	21	134
37978	64.50	64.90	0.4	113	125	55	10	37	240
37979	151.40	151.90	0.5	72	234	182	6	21	121
37980	249.40	249.90	0.5	88	212	120	7	25	160
37981	310.00	310.60	0.6	66	188	55	7	33	219
37982	381.10	381.60	0.5	48	303	186	4	19	128
37983	419.40	419.80	0.4	79	166	45	9	38	226

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
YNC13

PHYSICAL PROPERTIES / RECOVERIES

Depth	Rec %	Mag	SG	Formn	Lith
3.00	83	0.58		AA	Ln
4.30	100	0.22		AA	Ln
7.10	104	1.21		AA	Ln
8.10	100	1.55		AA	Ln
9.90	89	0.04		AA	Ln
10.70	88	0.22		AA	Ln
12.80	90	5.20		AA	Ln
14.90	110	3.82		AA	Ln
15.60			2.56	AA	Ln
16.30	96	0.60		AA	Ln
17.50	108	0.22		AA	Ln
18.30	50	2.75		AA	Ln
19.70	93	1.22		AA	Ln
21.30	88	0.30		AA	Ln
22.10	75	0.21		AA	Ln
23.40	100	0.20		AA	Ln
24.80	71	0.31		AA	Ln
25.10	100	0.39		AA	Ln
25.50	100	0.17		AA	Ln
26.50	100	0.18		AA	Ln
27.30	75	0.33		AA	Ln
28.30	100	0.39		AA	Ln
30.40	100	0.21		AA	Ln
31.10	71	0.22		AA	Ln
32.20	91	0.16		AA	Ln
32.40	100	0.12		AA	Ln
33.00	67	0.03		AA	Ln
34.20	75	0.48		AA	Ln
34.50	133	2.39		AA	Ln
35.60	118	0.25		AA	Ln
37.30	88	0.21		AA	Ln
38.80	107	0.05		AA	Ln
40.00	58	0.17		AA	Ln
43.30	100	0.43		NCD	Ld
46.30	100	0.18		NCD	Ld
47.40			2.55	NCD	Ld
49.30	100	0.16		NCD	Ld
50.50	100	0.06		NCD	Ld
51.10	100	0.06		NCD	Ld
52.30	100	0.12		NCD	Ld
54.10	94	0.09		NCD	Ld
55.30	58	0.23		NCD	Ld
55.70	100	0.27		NCD	Ld
57.10	79	0.32		NCD	Ld
58.10	70	0.15		NCD	Ld
58.30	100	0.24		NCD	Ld
59.00	43	0.04		NCD	Ld
60.20	42	0.09		NCD	Ld
61.30	82	0.19		NCD	Ld
64.30	100	0.13		NCD	Ld
66.30	100	0.11		NCD	Ld
67.30	100	0.14		NCD	Ld
70.00	100	0.14		NCD	Ld
71.70	100	0.15		NCD	Ld
74.10	104	0.20		NCD	Ld
76.10	100	0.02		NCD	Ld
76.60	160	0.05		NCD	Ld
77.80	100	0.11		NCD	Ld
78.20	75	0.06		NCD	Ld
80.30	100	0.17		NCD	Ld
80.70	125	0.15		NCD	Ld
81.90	83	0.13		NCD	Ld
82.90	100	0.06		NCD	Ld
84.30	93	0.07		NCD	Ld
85.20	78	0.04		NCD	Ld
85.40	100	0.06		NCD	Ld
85.70	167	0.06		NCD	Ld
87.80	90	0.22		NCD	Ld
88.80	100	0.09		NCD	Ld
90.60	94	0.15		NCD	Ld
92.20	125	0.16		NCD	Ld
94.30	95	0.15		NCD	Ld
96.60	87	0.18		NCD	Ld
97.60	100	0.08		NCD	Ld
98.60	100	0.23		NCD	Ld
100.00	93	0.11		NCD	Ld
102.90	69	0.20		NCD	Ld
105.90	100	0.16		NCD	Ld
107.10	117	0.21		NCD	Ld
109.30	100	0.22		NCD	Ld
112.30	100	0.09		NCD	Ld
114.30	100	0.19		NCD	Ld
117.10	104	0.12		NCD	Ld
118.30	100	0.18		NCD	Ld

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
YNC13

PHYSICAL PROPERTIES / RECOVERIES

Depth	Rec %	Mag	SG	Formn	Lith
119.70			2.60	NCD	Ld
121.30	100	0.07		NCD	Ld
127.30	100	0.30		AA	Ln
130.30	100	0.39		AA	Ln
133.30	100	0.23		AA	Ln
136.30	100	1.40		AA	Ln
139.30	100	0.26		AA	Ln
142.30	100	3.12		AA	Ln
144.30	100	0.43		AA	Ln
145.30	100	1.78		AA	Ln
148.30	100	1.46		AA	Ln
151.30	100	1.71		AA	Ln
154.30	100	8.32		AA	Ln
157.30	100	3.21		AA	Ln
157.70			2.58	AA	Ln
160.30	100	0.66		AA	Ln
163.30	100	0.24		AA	Ln
166.30	100	0.23		AA	Ln
169.30	100	4.33		AA	Ln
172.30	100	0.22		AA	Ln
175.30	100	0.17		AA	Ln
178.30	100	0.17		AA	Ln
179.80			2.54	AA	Ln
181.20	97	0.27		AA	Ln
181.60	100	0.09		AA	Ln
182.20	83	0.10		AA	Ln
183.30	73	0.17		AA	Ln
185.60	109	0.59		AA	Ln

Depth	Rec %	Mag	SG	Formn	Lith
187.60	70	0.36		AA	Ln
188.90	138	0.36		AA	Ln
190.10	92	0.31		AA	Ln
193.30	100	0.83		AA	Ln
196.30	100	0.34		AA	Ln
199.30	100	0.16		NCD	Ld
202.30	100	0.16		NCD	Ld
205.30	100	0.15		NCD	Ld
208.30	100	0.13		NCD	Ld
211.30	100	0.30		NCD	Ld
214.30	100	0.22		NCD	Ld
215.40			2.55	NCD	Ld
217.30	100	0.25		NCD	Ld
220.30	100	0.18		NCD	Ld
223.30	100	0.16		NCD	Ld
226.30	100	0.21		NCD	Ld
229.30	100	0.17		NCD	Ld
232.30	100	0.15		NCD	Ld
235.30	100	0.07		NCD	Ld
238.30	100	0.22		NCD	Ld
241.30	100	0.15		NCD	Ld
244.30	100	0.12		NCD	Ld
247.30	100	0.25		AA	Ln
250.30	100	0.33		AA	Ln
253.30	100	1.39		AA	Ln
255.90			2.55	AA	Ln
256.30	100	4.48		AA	Ln
259.30	100	7.37		AA	Ln

Depth	Rec %	Mag	SG	Formn	Lith
262.30	100	0.79		AA	Ln
264.40	110	0.18		AA	Ln
267.10	100	5.90		AA	Ln
268.30	100	0.11		AA	Ln
271.30	100	0.22		AA	Ln
274.30	100	0.24		AA	Ln
277.30	100	0.28		AA	Ln
280.30	100	0.20		AA	Ln
283.30	100	0.03		AA	Ln
286.30	100	0.37		AA	Ln
287.20			2.58	AA	Ln
289.30	100	0.25		AA	Ln
292.30	100	0.33		AA	Ln
295.30	100	0.22		AA	Ln
298.30	100	0.06		NCD	Ld
299.30	100	0.06		NCD	Ld
302.40	100	0.11		NCD	Ld
305.50	102	0.18		NCD	Ld
308.50	100	0.23		NCD	Ld
311.60	100	0.16		NCD	Ld
314.70	100	0.17		NCD	Ld
316.30	97	0.13		NCD	Ld
319.30	100	0.13		NCD	Ld
322.30	100	0.08		NCD	Ld
324.20	100	0.10		NCD	Ld
327.20	100	0.12		NCD	Ld
329.80	96	0.21		NCD	Ld
331.30	104	0.27		NCD	Ld

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
YNC13

PHYSICAL PROPERTIES / RECOVERIES

Depth	Rec %	Mag	SG	Formn	Lith
334.30	100	0.30		NCD	Ld
337.30	100	0.15		NCD	Ld
338.80			2.56	NCD	Ld
340.30	100	0.12		NCD	Ld
343.30	100	0.17		NCD	Ld
346.30	100	0.14		NCD	Ld
349.30	100	0.12		NCD	Ld
352.30	100	0.18		NCD	Ld
355.30	100	0.15		NCD	Ld
358.30	100	0.31		NCD	Ld
361.30	100	0.00		NCD	Ld
362.10	150	0.21		NCD	Ld
364.30	95	0.06		NCD	Ld
365.40	82	0.09		NCD	Ld
367.30	121	0.06		NCD	Ld
368.40	127	0.12		NCD	Ld
370.30	132	0.17		NCD	Ld
370.80	300	0.10		AA	Ln
371.40	117	0.15		AA	Ln
372.80	57	0.20		AA	Ln
373.30	80	0.22		AA	Ln
374.20	78	0.18		AA	Ln
374.70	140	0.15		AA	Ln
375.90	108	0.20		AA	Ln
376.70	100	0.14		AA	Ln
378.00	54	0.15		AA	Ln
378.50	100	0.08		AA	Ln
380.20	106	0.15		AA	Ln

Depth	Rec %	Mag	SG	Formn	Lith
383.20	100	0.18		AA	Ln
385.20	110	0.21		AA	Ln
388.10	97	0.23		AA	Ln
390.30	109	0.21		AA	Ln
392.90	96	0.17		AA	Ln
394.30	79	0.14		AA	Ln
396.10	111	0.16		AA	Ln
396.40			2.49	AA	Ln
397.50	100	0.21		AA	Ln
398.00	100	0.21		AA	Ln
398.70	100	0.23		AA	Ln
400.50	83	0.23		AA	Ln
402.00	87	0.21		AA	Ln
403.60	100	0.21		AA	Ln
405.20	100	0.17		AA	Ln
406.10	111	0.23		AA	Ln
407.20	73	0.14		AA	Ln
408.00	50	0.07		AA	Ln
409.50	107	0.21		AA	Ln
411.10	100	0.20		AA	Ln
412.10	110	0.17		NCD	Ln
413.40	92	0.16		NCD	Ld
414.20	100	0.20		NCD	Ld
415.60	100	0.18		NCD	Ld
417.30	100	0.16		NCD	Ld
420.40	99	0.15		NCD	Ld
423.00	104	0.12		NCD	Ld
424.30	108	0.17		NCD	Ld

Depth	Rec %	Mag	SG	Formn	Lith
426.70	100	0.13		NCD	Ld
427.30	100	0.13		NCD	Ld
429.50	100	0.09		NCD	Ld
430.50	110	0.10		NCD	Ld
433.30	100	0.13		NCD	Ld
436.30	100	0.15		NCD	Ld
436.50			2.61	NCD	Ld
439.30	100	0.03		NCD	Ld
442.30	100	0.15		NCD	Ld
443.50	100	0.14		NCD	Ld
445.30	100	0.12		NCD	Ld
446.70	93	0.08		NCD	Ld
447.70	100	0.16		NCD	Ld
450.80	90	0.16		NCD	Ld
452.40	94	0.10		NCD	Ld
453.20	100	0.12		NCD	Ld
456.10	93	0.12		NCD	Ld
458.70	100	0.10		NCD	Ld
459.80	100	0.05		NCD	Ld
462.10	100	0.10		NCD	Ld
463.90	100	0.12		NCD	Ld
466.30	50	0.05		NCD	Ld
466.80	80	0.11		NCD	Ld
467.80	30	0.06		NCD	Ld
468.20	100	0.06		NCD	Ld
469.30	73	0.09		NCD	Ld
470.10	88	0.07		NCD	Ld
473.20	97	0.04		NCD	Ld

782173

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
YNC13

PHYSICAL PROPERTIES / RECOVERIES

Depth	Rec %	Mag	SG	Formn	Lith
474.90	100	0.32		NCD	sst
476.00	109	0.04		NCD	sst
478.30	96	0.15		NCD	sst
479.30	100	0.16		NCD	sst
481.30	100	0.16		NCD	sst
484.30	100	0.04		NCD	sst
487.30	100	0.02		NCD	sst
490.30	100	0.05		NCD	sst
493.30	100	0.11		NCD	sst
496.30	100	0.07		NCD	sst
498.30	100	0.10		NCD	sst
499.30	100	0.04		NCD	sst
501.30	90	0.09		NCD	sst
503.70	108	0.05		NCD	sst
505.30	100	0.02		NCD	sst
506.70	86	0.04		NCD	sst

471287

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
YNC12

DRILLING

Location	NEWTON CREEK
Project	YOLANDE
Prospect	NEWTON CREEK
Design By	P.M.Quayle
Logged By	P.M.Quayle
Relogged	
Commenced	6th December 1994
Completed	31st January 1995
Drilled By	East Coast Drilling
Drill Rig	Longyear 38

OBJECTIVE

To test for m ineralization and alteration in the principal target horizon coincident with a zone of magnetic depletion. The zone of magnetic depletion is associated with an inferred major cross structure at which major structural and formational features bend.

RESULT

Neither the principal target horizon nor the cross structure were intersected. The hole remained within andesites and dacites which were both thicker and more massive than those to the north of the spillway. Only minor mineralization and alteration were encountered.

COLLAR SURVEY (AMG)

AMG mN	5357766.0	Bearing	340.0
AMG mE	379836.5	Dip	-50.0
mN		Hole Length	577.3
mE		DH Survey Type	Eastman single :
RL	497.1		

DOWNHOLE SURVEY (AMG)

Depth	Bearing	Dip
0.0	-50.00	328.00
40.0	-48.50	325.00
80.0	-48.00	328.00
120.0	-46.40	329.00
160.0	-44.50	330.00
200.0	-43.20	333.00
240.0	-42.10	332.00
280.0	-39.80	334.00
320.0	-38.90	335.00
360.0	-39.00	334.00
400.0	-38.20	336.80
440.0	-38.00	338.00
480.0	-37.50	339.00
500.0	-35.00	328.00
520.0	-36.80	336.80
560.0	-35.50	337.00

Depth	Bearing	Dip

SIGNIFICANT CORE LOSS

From	To	Loss

POOR GROUND CONDITION ZONES

From	To	Condition

HOLE SIZE

From	To	Size
0	21	HQ
21	577.3	NQ

HOLE CONDITIONS AFTER COMPLETION

Collar	
Steel Casing	
PVC Casing	NIL
Ground Water	
Wedge	
Drill Pad	Sump filled in and site roughly leveled.

SIGNIFICANT INTERSECTIONS

From	To	Int	Cu	Pb	Zn	Ag	Au	Comments

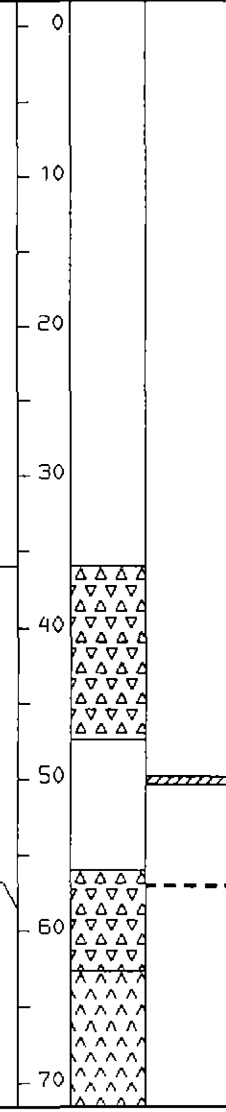
PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 500

HOLE No. YNC12

PROJECT: YOLANDE

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
0.00	36.00	BASALT Dark, Green, Massive, Vesicles, Amygdales, Massive basalt with minor 5mm carbonate filled vesicles, carbonate altered .5mm plagioclase? and minor zones of breccia possibly hydraulic fracture infilled with carbonate with haematite. Haematite (1mm) spots throughout. Note change in mag-sus at 16.6m might indicate weathering of magnetite. at 20 degrees to LCA. A very sharp but irregular contact, no mixing, possibly intrusive.	Moderately Carbonatised, Moderately Oxidised, Zone of moderate incipient carbonate alteration (of fine feldspars?) with calcite/haematite infilling of vesicles and hydraulic? fractures. Abundant 0.5mm haematite spots throughout. Moderately Carbonatised, Moderately Oxidised. As above, but increase in magnetic susceptibility indicates fresh magnetite.		
36.00	47.40	BRECCIA Grey, Pink, Coarse grained, Poorly sorted, Polymict, Crystal, Poorly sorted polymict breccia, very (1 to 3mm pink feldspar) crystal rich sericitic (possibly pumiceous) matrix. Clasts range from 5 to 100mm in size, tend to be sub-rounded or scalloped, types include large massive pink siliceous volcanics, (similar to clasts in pumice breccia in spillway), pale green feldspar phyric possibly dacites, and minor fine grained siliceous siltstone? and minor 3 to 20mm massive fine grained pyrite clasts (with white carbonate). Note band of basalt resembles tongue at 15 degrees to LCA. Sharp irregular possible quenching but no mixing (intrusive?).	Moderately Sericitised, Moderately Silicified, Silicified felsic clasts, carbonate altered mafic clasts and pink feldspars in sericitic matrix.	CLAST, minor pyrite disseminated, Zone with several 5 to 40mm massive fine-grained pyrite clasts and minor pyrite disseminations throughout, and minor 10mm pyrite cubes near lower contact..	
47.40	56.00	BASALT Dark, Green, Massive, Vesicles, Amygdales, Massive basalt similar to above basalt. Sharp irregular intrusive? contact.	Slightly Carbonatised, Zone of carbonate altered feldspars and hornblends, carbonate flecks and veinlets.		VEIN, A 15, Carbonate.
56.00	62.70	BRECCIA Pale, Grey, Poorly sorted, Polymict, Altered polymict breccia textures indistinct due to sericitization, but similar to above breccia. CONTACT: Conformable abrupt, Irregular mixed contact, possibly conformable.		DISSEMINATED, minor pyrite disseminated. Zone with minor vrey fine pyrite disseminated throughout..	FAULT, A 35, Brittle.
62.70	92.40	ANDESITE Dark, Green, Massive, Porphyritic, Feldspar phyric, Hornblende phyric, Massive rock with 1 to 4mm hornblende and feldspars altered to carbonate. Minor hydraulic? breccia infilled with carbonate in part. CONTACT: Conformable mixed. Possibly quench brecciated			

GRAPHIC



5 cm

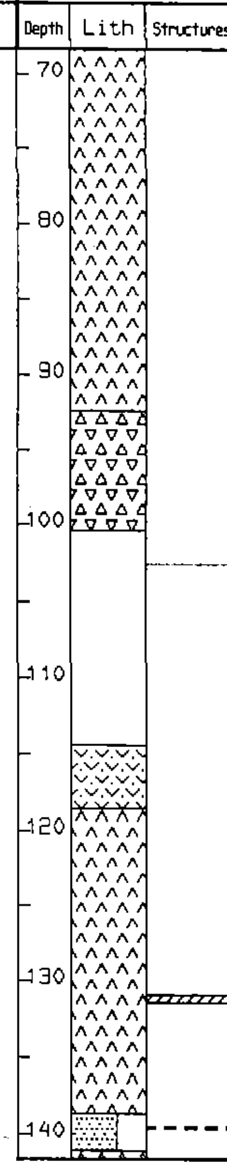
PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 500

HOLE No. YNC12

PROJECT: YOLANDE

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
		hornblende and feldspars altered to carbonate. Minor hydraulic? breccia infilled with carbonate in part. CONTACT: Conformable mixed, Possibly quench brecciated contact.			
92.40	100.40	BRECCIA Grey, Pink, Reworked, Crystal, Feldspar phyric, Reworked feldspar crystal rich dacitic? debris. Minor 30mm andesite clasts, minor 5mm pink rhyolite? clasts. Minor hydraulic breccia with Mn carbonate infill. CONTACT: Conformable mixed, Low angle, irregular, mixed conformable.			Carbonate.
100.40	114.40	ACID VOLCANICLASTIC Grey, Fine grained, Medium grained, Pumiceous, Vitric, Feldspar phyric, Irregular zone of silicified volcaniclastic (pumiceous in part), and fine grained volcanic? in part. CONTACT: Conformable abrupt, Complex, apparent breccaited contact with siliceous mixing, irregular conformable volcanic contact.	Slightly Silicified, Slightly Sericitised, Zone of siliceous alteration of pumiceous matrix.		PRIMARY FABRIC, A 20, Possible compaction feature.
114.40	118.50	PUMICEOUS MASS FLOW Grey, Coarse grained, Poorly sorted, Pumiceous, Polymict, Abundant 1 to 3mm pink feldspars, 3 to 5mm pumice clasts, 1 to 5mm pink rhyolite? clasts, and minor 5mm white/grey clasts with abundant fine leucoxenes in a pumiceous matrix. Note rhyolite clasts resemble unit in Newton Creek, and in typical NC pumice breccias. CONTACT: Conformable abrupt,			
118.50	138.60	ANDESITE Grey, Green, Coarse grained, Massive, Porphyritic, Feldspar phyric, Hornblende phyric, Magnetite, Abundant carbonate altered 2 to 5mm hornblendes and 1 to 3mm feldspars in a dark red/green matrix massive in appearance. Abundant fine carbonate veins throughout, and minor massive dark green chlorite and white quartz veining with pink alteration halo in part. CONTACT: Conformable mixed, Low angle, irregular mixed contact.	Slightly Carbonatised, Zone with carbonate altered hornblends, flecks and veinlets.		VEIN, Chlorite, Carbonate, Massive dark green chlorite with drag folded carbonate veinlets. Corresponds with 100% loss of water return.
138.60	141.10	SILTSTONE Pale, Grey, Fine grained, Irregular disrupted siliceous zone, could be peperite? Irregular peperitic? mixing			FAULT, Slickenlines perpendicular to core on plane at 20 degrees to

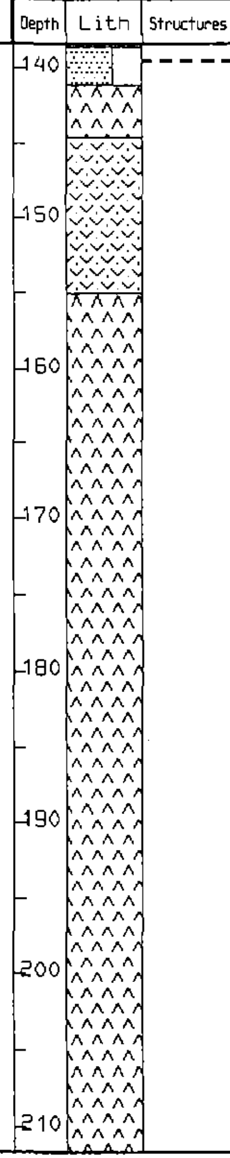
GRAPHIC



5 cm

DESCRIPTION					STRUCTURES
From	To	LITHOLOGY	ALTERATION	MINERALISATION	
138.60	141.10	siliceous zone, could be peperite? Irregular peperitic? mixing.			perpendicular to core on plane at 20 degrees to LCA.
141.10	144.60	ANDESITE Dark, Green, Coarse grained, Massive, Porphyritic, Hornblende phyric, Feldspar phyric, Magnetite, Typical Hb-phyric andesite.			
144.60	155.00	PUMICEOUS MASS FLOW Pale, Grey, Pumiceous, Feldspar phyric, Polymict, Abundant 1mm feldspars, and common 3 to 5mm pink rhyolite? clasts and 1 to 3mm pumice clasts, minor chloritic patches in pumiceous-partly chloritic matrix. Abundant fine leucoxene throughout. CONTACT: Conformable mixed,	Slightly Silicified, Slightly Sericitised,		
155.00	234.60	ANDESITE Green, Red, Coarse grained, Massive, Porphyritic, Hornblende phyric, Feldspar phyric, Magnetite, Abundant 1 to 5mm carbonate altered hornblende and 1 to 3mm feldspars in dense dark red/green matrix. Frequent carbonate veins, and minor 3mm calcite amygdales in part. CONTACT: Conformable abrupt, at 45 degrees to LCA.	Slightly Carbonatised, Carbonate alteration of hornblend decreasing downhole.		

GRAPHIC



5 cm

78218

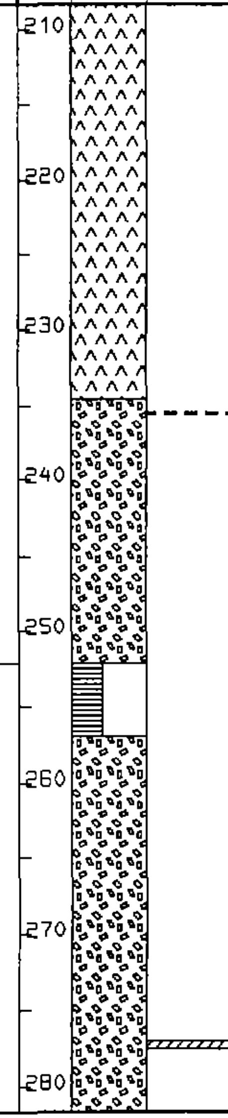
PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 500

HOLE No. **YNC12**

PROJECT: YOLANDE

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
234.60	252.20	DACITE MIXED WITH SILTSTONE Pale, Grey, Peperitic, Classic peperite texture, ragged mid grey feldspar phyric volcanic in pale grey siltstone with minor bands of pale grey fine grained sandstone, and minor blue grey mudstone/shale. CONTACT: Missing,			FAULT. Breccia, Quartz, Not major structure as no lithology change.
252.20	256.90	BLACK SHALE Black, Finely laminated in part. Possible soft sediment structures. CONTACT: Conformable mixed,		DISSEMINATED, trace pyrite disseminated.	
256.90	577.30	DACITE Grey, Green, Massive, Feldspar phyric, Possible flow banding textures between 353 and 360m. Feldspars vary in abundance, and size from 1 to 4mm.	Slightly Carbonatised, Incipient carbonate alteration of feldspars.		VEIN. Chlorite, Carbonate,

GRAPHIC: Depth | Lith | Structures



5 cm

671287

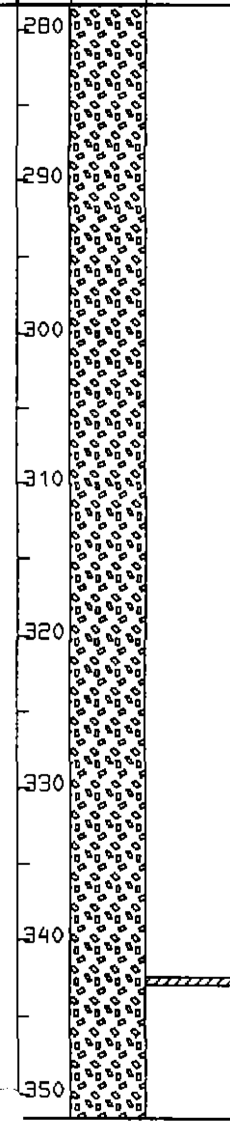
PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 500

HOLE No. **YNC12**

PROJECT: YOLANDE

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
			Slightly Albitised, Pink felspar alteration eminating from fractures.		VEIN. Quartz, Chlorite.

GRAPHIC (Depth / Lith / Structures)



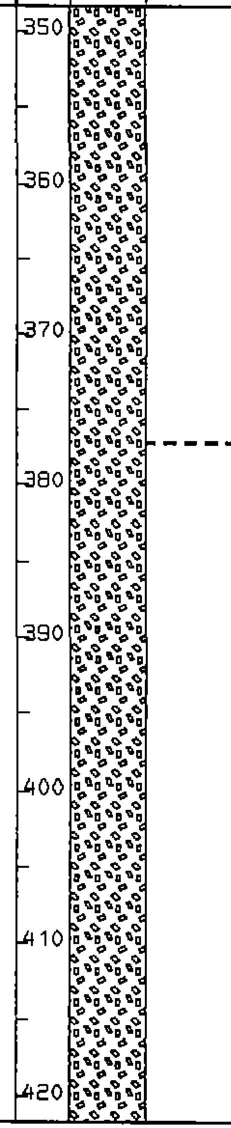
5 cm

081287

PROJECT: YOLANDE

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 500

HOLE No. **YNC12**

From	To	LITHOLOGY	ALTERATION	MINERALISATION	GRAPHIC (Depth / Lith / Structures)	STRUCTURES
			Slightly Carbonatised, Slight incipient carbonate alteration throughout of fine matrix, feldspars, and as fine gash-veinlets.			FAULT, Pug, At low angle to LCA within zone of broken core.
						BROKEN CORE, Quartz, Chlorite,

5 cm

181287

PASMINCO EXPLORATION

DIAMOND DRILL CORE LOG

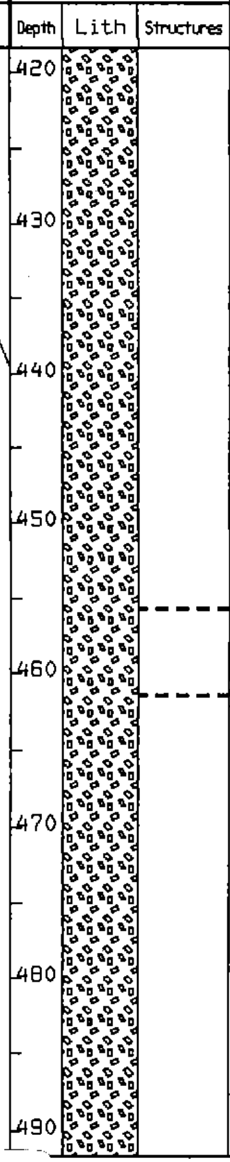
Vertical Scale 1 : 500

HOLE No. YNC12

PROJECT: YOLANDE

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
				DISSEMINATED, trace pyrite disseminated. Associated with minor quartz chlorite veining, and pink felsic alteration..	BROKEN CORE, Quartz, Chlorite, Zone of broken core, pink feldsic alteration eminating from quartz chlorite veined fractures.
					FAULT, Quartz, Chlorite, Carbonate. Irregular vein filled fault.
					FAULT, Quartz, Chlorite, Carbonate.

GRAPHIC



5 cm

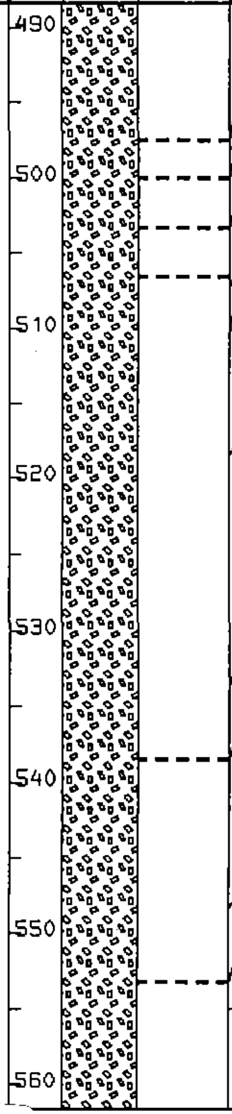
782182

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 500

HOLE No. YNC12

PROJECT: YOLANDE

DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES



STRUCTURES:

FAULT. Pug.

FAULT. Quartz. Chlorite. Carbonate.

FAULT. Pug. Within zone of broken core.

BROKEN CORE. With low angle fractures coated with carbonate.

FAULT. Pug. Within zone of broken core.

BROKEN CORE. Low angle fractures coated with straw coloured carbonate.

BROKEN CORE. Low angle irregular fractures with straw coloured carbonate.

FAULT. Pug. Quartz. Chlorite.
Irregular zone with pug bands at 45 degrees to LCA, and crystal growth perpendicular to vein orientation.

BROKEN CORE. Pug.

FAULT. A 60. Pug. Pug band is perpendicular to low angle fractures.

BROKEN CORE. Crush zone.

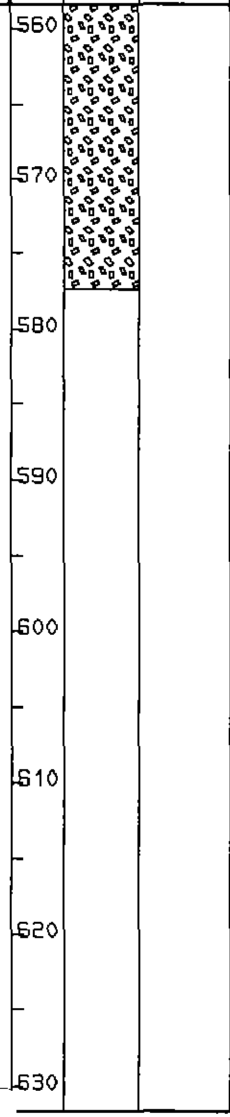
5 cm

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 500

HOLE No. YNC12

PROJECT: YOLANDE

Page 9 of 9

DESCRIPTION					GRAPHIC		
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth / Lith / Structures	STRUCTURES
						BROKEN CORE. Crush zone. BROKEN CORE. Crush zone.

5 cm

782184

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOG

Hole ID
YNC12

PHYSICAL PROPERTIES / RECOVERIES

Depth	Rec %	Mag	SG	Formn	Lith	Depth	Rec %	Mag	SG	Formn	Lith	Depth	Rec %	Mag	SG	Formn	Lith
3.60	19	0.33		AA	Lba	64.60	100	0.26		AA	Ln	148.60	100	0.11		AA	pmf
5.30	94	0.40		AA	Lba	67.60	100	2.16		AA	Ln	151.60	100	0.14		AA	pmf
5.60	67	0.36		AA	Lba	70.60	100	0.50		AA	Ln	154.60	100	0.08		AA	pmf
7.60	100	0.50		AA	Lba	73.60	100	0.33		AA	Ln	156.30	106	6.04		AA	Ln
10.60	100	0.62		AA	Lba	76.60	100	0.25		AA	Ln	157.60	88	7.28		AA	Ln
13.60	100	0.51		AA	Lba	79.60	100	0.32		AA	Ln	160.60	102	8.27		AA	Ln
16.60	100	0.56		AA	Lba	82.60	100	0.07		AA	Ln	163.60	100	5.71		AA	Ln
19.60	100	6.92		AA	Lba	85.60	100	0.34		AA	Ln	166.60	100	13.10		AA	Ln
21.00	93	11.10		AA	Lba	88.60	100	0.32		AA	Ln	169.60	100	13.50		AA	Ln
22.60	81	3.70		AA	Lba	91.60	100	0.33		AA	Ln	172.60	100	11.80		AA	Ln
25.60	100	2.64		AA	Lba	94.60	100	0.13		AA	bx	175.60	102	1.47		AA	Ln
28.60	100	8.22		AA	Lba	97.60	100	0.02		AA	bx	178.60	92	17.70		AA	Ln
31.30	96	11.60		AA	Lba	100.60	100	0.15		AA	Va	181.60	103	15.10		AA	Ln
32.60	100	0.54		AA	Lba	103.60	100	0.10		AA	Va	184.60	100	4.35		AA	Ln
32.90	100	2.24		AA	Lba	106.60	100	0.14		AA	Va	187.60	100	13.80		AA	Ln
34.60	88	1.44		AA	Lba	109.60	100	0.16		AA	Va	190.60	97	3.09		AA	Ln
37.30	104	0.11		AA	bx	112.60	100	0.03		AA	Va	193.60	97	6.83		AA	Ln
38.80	133	0.08		AA	bx	115.60	100	0.08		AA	pmf	196.60	100	4.54		AA	Ln
40.60	28	0.10		AA	bx	118.60	100	0.26		AA	Ln	199.60	100	14.90		AA	Ln
43.60	100	0.15		AA	bx	121.60	100	0.28		AA	Ln	202.60	100	2.19		AA	Ln
46.60	100	0.19		AA	bx	124.60	100	1.24		AA	Ln	205.60	100	11.50		AA	Ln
49.60	100	0.30		AA	Lba	127.60	100	0.20		AA	Ln	208.60	100	9.18		AA	Ln
52.60	100	0.42		AA	Lba	130.60	98	0.20		AA	Ln	211.60	100	7.72		AA	Ln
54.20	100	0.36		AA	Lba	133.60	88	0.24		AA	Ln	214.60	100	8.44		AA	Ln
55.60	86	0.38		AA	Lba	136.60	100	0.49		AA	Ln	217.60	100	9.30		AA	Ln
56.30	114	0.06		AA	bx	139.60	100	0.09		AA	slt	220.60	100	8.54		AA	Ln
58.60	100	0.19		AA	bx	142.60	100	0.23		AA	Ln	223.60	100	0.20		AA	Ln
61.60	100	0.05		AA	bx	145.60	100	0.10		AA	pmf	226.60	100	0.24		AA	Ln

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOG

Hole ID YNC12

PHYSICAL PROPERTIES / RECOVERIES

Depth	Rec %	Mag	SG	Formn	Lith
229.60	100	0.21		AA	Ln
232.60	100	0.18		AA	Ln
235.60	100	0.07		NCD	Ld
236.60	100	0.08		NCD	Ld
239.70	109	0.05		NCD	Ld
241.60	89	0.06		NCD	Ld
244.60	97	0.07		NCD	Ld
247.60	100	0.05		NCD	Ld
250.60	100	0.06		NCD	Ld
253.60	100	0.06		NCD	bsh
256.60	100	0.08		NCD	bsh
259.60	100	0.03		NCD	Ld
262.60	100	0.17		NCD	Ld
265.60	100	0.36		NCD	Ld
268.60	100	0.40		NCD	Ld
271.60	100	0.33		NCD	Ld
272.40	100	0.38		NCD	Ld
274.60	100	0.59		NCD	Ld
277.60	100	0.26		NCD	Ld
280.60	100	0.14		NCD	Ld
283.60	100	0.23		NCD	Ld
286.60	100	0.23		NCD	Ld
289.60	100	0.19		NCD	Ld
292.60	100	0.43		NCD	Ld
295.60	100	0.29		NCD	Ld
298.60	100	0.57		NCD	Ld
301.60	100	0.28		NCD	Ld
304.60	100	0.16		NCD	Ld
307.60	100	0.20		NCD	Ld
310.60	100	0.42		NCD	Ld
313.60	100	0.66		NCD	Ld
316.60	100	0.24		NCD	Ld
319.60	100	0.45		NCD	Ld
321.30	106	0.27		NCD	Ld
322.60	92	0.34		NCD	Ld
325.60	100	0.22		NCD	Ld
328.60	100	0.43		NCD	Ld
331.60	100	0.28		NCD	Ld
334.60	100	0.17		NCD	Ld
337.60	100	0.44		NCD	Ld
340.60	100	0.13		NCD	Ld
343.60	100	0.16		NCD	Ld
346.60	100	0.26		NCD	Ld
349.60	100	0.13		NCD	Ld
352.60	100	0.15		NCD	Ld
355.60	100	0.16		NCD	Ld
358.60	100	0.08		NCD	Ld
361.60	100	0.43		NCD	Ld
364.60	100	0.24		NCD	Ld
367.60	100	0.40		NCD	Ld
370.60	100	0.31		NCD	Ld
373.60	100	0.13		NCD	Ld
374.60	90	0.12		NCD	Ld
375.50	89	0.15		NCD	Ld
376.30	75	0.16		NCD	Ld
376.60	100			NCD	Ld
377.00	75			NCD	Ld
379.60	92	0.40		NCD	Ld
382.60	100	0.22		NCD	Ld
383.80	92	0.08		NCD	Ld
385.30	80			NCD	Ld
385.50	125	0.16		NCD	Ld
386.70	104	0.15		NCD	Ld
387.90	100	0.15		NCD	Ld
389.30	100	0.33		NCD	Ld
390.30	100	0.19		NCD	Ld
391.60	92	0.31		NCD	Ld
394.60	100	0.17		NCD	Ld
397.60	100	0.33		NCD	Ld
400.60	100	0.69		NCD	Ld
403.60	100	0.41		NCD	Ld
406.60	100	1.72		NCD	Ld
408.60	100	0.34		NCD	Ld
409.60	100	0.28		NCD	Ld
412.60	98			NCD	Ld
413.70	109			NCD	Ld
415.00	85			NCD	Ld
418.40	88			NCD	Ld
421.40	103			NCD	Ld

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
YNC12

ASSAY RESULTS

From	To	Samp	Int	Cu	Pb	Zn	Ag	Au	Fe	Ba	As	Mn
114.70	116.6	39817	1.9	26	308	88	<1	<0.008		1148		243
252.50	254.7	39820	2.2	74	226	1982	<1	0.02		1138		740
254.70	256.6	39821	1.9	58	146	791	<1	0.01		1174		604

YNC12

SAMPLE	FROM	TO	interval	Al2O3	SiO2	TiO2	Fe2O3	MnO	CaO	K2O	MgO	P2O5	Na2O	SO3	LOI	AI
39816	8.50	9.00	0.5	15.70	45.20	0.78	10.80	0.16	9.67	2.04	3.33	0.13	1.84	0.01	10.56	32
39818	123.90	124.50	0.6	11.50	55.40	0.41	5.04	0.13	11.30	0.99	1.69	0.30	3.36	0.02	9.53	15
39819	216.60	217.20	0.6	13.30	58.10	0.52	6.47	0.10	6.24	2.83	2.74	0.40	3.11	<0.01	5.89	37
39822	323.70	324.60	0.9	14.40	66.30	0.49	4.91	0.07	3.25	3.33	0.72	0.14	2.51	0.01	4.14	41
39645	566.30	566.80	0.5	14.40	66.70	0.50	4.45	0.06	3.21	3.65	0.86	0.14	2.46	0.17	4.12	44

YNC12 (values in ppm)

SAMPLE	FROM	TO	interval	Rb	Sr	V	Nb	Y	Zr
39816	8.50	9.00	0.5	69	248	293	4	26	90
39818	123.90	124.50	0.6	43	517	130	6	23	195
39819	216.60	217.20	0.6	62	470	162	9	25	245
39822	323.70	324.60	0.9	98	207	49	12	37	248
39645	566.30	566.80	0.5	113	178	47	10	33	229

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID YNC11

DRILLING

Location	NEWTON CREEK
Project	YOLANDE EL 11/85
Prospect	NEWTON CREEK
Design By	P.M.Quayle
Logged By	P.M.Quayle
Relogged	
Commenced	29th November 1994
Completed	5th Decemeber 1994
Drilled By	East Coast Drilling
Drill Rig	Longyear LM38

OBJECTIVE

To test for mineralization indicated by the increased thickness of both the Stratified mafic breccia, and the principal target horizon and increasing metal values to the south. The target is coincident with a modest Mobile Metal Ion anomaly.

RESULT

The polymict wacke zone (the principal target horizon) although altered is narrow and poorly mineralized. The stratified mafic breccia is conciderably thicker here possibly indication proximity to source, it does not however correlate well with mineralization.

COLLAR SURVEY (AMG)

AMG mN	5359395.7	Bearing	247.0
AMG mE	379982.2	Dip	-45.0
mN		Hole Length	151.4
mE		DH Survey Type	Eastman single s
RL	514.9		

DOWNHOLE SURVEY (AMG)

Depth	Bearing	Dip
0.0	-45.00	247.00
40.0	-45.20	247.50
80.0	-44.40	245.50
120.0	-44.00	242.00
150.0	-42.70	243.00

SIGNIFICANT CORE LOSS

From	To	Loss

POOR GROUND CONDITION ZONES

From	To	Condition

HOLE SIZE

From	To	Size
0	3	HQ
3	151.4	NQ

HOLE CONDITIONS AFTER COMPLETION

Collar	
Steel Casing	
PVC Casing	
Ground Water	NIL
Wedge	
Drill Pad	Sump filled in and site roughly leveled.

SIGNIFICANT INTERSECTIONS

From	To	Int	Cu	Pb	Zn	Ag	Au	Comments

681287

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

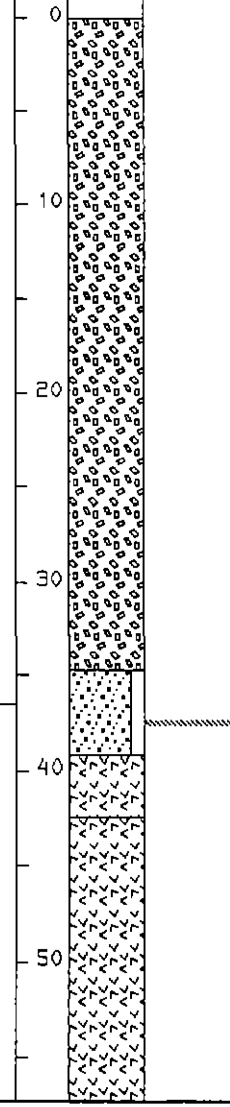
HOLE No. **YNC11**

PROJECT: YOLANDE EL 11/85

Vertical Scale 1 : 400

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
0.00	34.70	DACITE White, Zone of weathered, altered, broken and detextured core; sericite - silica alteration, but with minor ghost feldspar-phyric, jigsaw-fit clasts resembling "classic" massive to hyaloclastite dacite.	Intensely Bleached, Moderately Oxidised, Zone of surface weathering superimposed on intense bleaching, weathered quartz sericite alteration.		BROKEN CORE, Zone of broken core and core loss; rock is weathered and cleaved.
34.70	39.20	GREYWACKE White, Poorly sorted, Polymict, Zone of weathered, cleaved, altered, polymict wacke resembling "classic" spillway, lower polymict wacke. CONTACT: Conformable abrupt,		DISSEMINATED, minor pyrite disseminated.	FIRST CLEAVAGE, A 50.
39.20	42.40	BASIC LAVA Green, Bedded, Zone of reworked basalt detritus interbedded with overlying polymict wacke.			
42.40	96.70	BASIC LAVA Green, Hyaloclastitic, Massive, Massive green mafic with clastic texture in most part resembling quenched fragments. Minor pseudo-clasts produced by sericite-carbonate and haematite alteration. Weathering pits of 1mm throughout.			

GRAPHIC (Depth | Lith | Structures)



5 cm

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PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

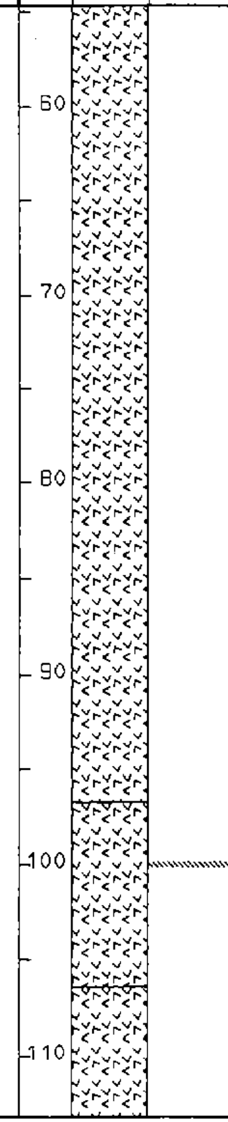
HOLE No. YNC11

PROJECT: YOLANDE EL 11/85

Vertical Scale 1 : 400

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
96.70	106.40	BASIC LAVA Green, Massive, Zone of massive fine grained basaltic detritus. Compositionally similar to above interval. Abundant 1mm carbonate spots and minor weathering pits.	Moderately Carbonatised. Zone of incipient carbonate alteration with moderate haematite stained carbonate veining, and minor straw coloured Mn carbonate veining.		FIRST CLEAVAGE, D 85.
106.40	117.70	BASIC LAVA Green, Hyaloclastitic, Clasts vary from 1 to 20mm in size. Minor pink rhyolite 2cm clasts resembling xenoliths in spillway basalt.			

GRAPHIC (Depth, Lith, Structures)



5 cm

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PASMINCO EXPLORATION

DIAMOND DRILL CORE LOG

HOLE No. YNC11

PROJECT: YOLANDE EL 11/85

Vertical Scale 1 : 400

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
117.70	120.50	SILTSTONE Grey, Laminated, Upwards fining sequence, Zone of interbedded fine grained siltstones, beds 2 to 10cms upwards fining and laminated in part, possibly stratified top of pumice breccia. CONTACT: Gradational,		DISSEMINATED. minor pyrite disseminated.	PRIMARY FABRIC. D 85.
120.50	151.30	PUMICEOUS MASS FLOW Grey, Pink, Cleaved, Pumiceous, Feldspar phyric, Abundant albitized feldspars typically 1 to 3mm in size. Pink rhyolite? clasts increasing in size and abundance downhole from 5 to 40mm. Sericite cleavage more pronounced in this intersection than in YNC7 etc. CONTACT: Gradational,	Slightly Silicified. Slightly Sericitised. Zone of minor sericite quartz alteration developing cleavage. also albitised? feldspars.		FIRST CLEAVAGE. D 88.

GRAPHIC — Depth: 120, 130, 140, 150, 160

5 cm

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
YNC11

PHYSICAL PROPERTIES / RECOVERIES

Depth	Rec %	Mag	SG	Formn	Lith
3.00	13	0.05		NCD	Ld
4.30	85	0.04		NCD	Ld
4.80	100	0.03		NCD	Ld
6.70	68	0.00		NCD	Ld
7.30	83	0.00		NCD	Ld
10.30	37	0.03		NCD	Ld
13.30	30	0.05		NCD	Ld
14.50	100	0.06		NCD	Ld
16.30	83	0.07		NCD	Ld
19.30	20	0.07		NCD	Ld
22.30	20	0.06		NCD	Ld
23.50	75	0.06		NCD	Ld
25.30	50	0.05		NCD	Ld
28.30	43	0.04		NCD	Ld
31.30	23	0.03		NCD	Ld
34.30	27	0.10		NCD	Ld
37.30	53	0.16		NCD	w
39.20	89	0.11		NCF	Lb
40.30	73	0.12		NCF	Lb
42.40	95	0.30		NCF	Lb
43.30	89	0.22		NCF	Lb
44.70	86	0.21		NCF	Lb
45.70	70	0.20		NCF	Lb
47.10	100	0.25		NCF	Lb
48.50	93	0.18		NCF	Lb
49.30	88	0.24		NCF	Lb
50.50	75	0.27		NCF	Lb
51.90	107	0.24		NCF	Lb

Depth	Rec %	Mag	SG	Formn	Lith
52.50	117	0.19		NCF	Lb
53.30	112	0.18		NCF	Lb
55.30	100	0.17		NCF	Lb
56.30	100	0.24		NCF	Lb
58.30	100	0.17		NCF	Lb
59.00	129	0.36		NCF	Lb
59.70	100	0.17		NCF	Lb
60.80	82	0.28		NCF	Lb
61.70	122	0.26		NCF	Lb
62.00	100	0.17		NCF	Lb
63.50	100	0.31		NCF	Lb
64.30	88	0.27		NCF	Lb
65.50	125	0.31		NCF	Lb
69.30	47	0.06		NCF	Lb
70.20	78	0.18		NCF	Lb
71.40	100	0.27		NCF	Lb
72.10	86	0.30		NCF	Lb
72.50	100	0.15		NCF	Lb
73.10	83	0.14		NCF	Lb
73.80	114	0.25		NCF	Lb
74.40	67	0.25		NCF	Lb
75.60	67	0.35		NCF	Lb
76.40	100	0.24		NCF	Lb
76.80	100	0.45		NCF	Lb
77.80	100	0.27		NCF	Lb
79.10	92	0.21		NCF	Lb
79.70	100	0.29		NCF	Lb
81.10	93	0.30		NCF	Lb

Depth	Rec %	Mag	SG	Formn	Lith
82.30	100	0.34		NCF	Lb
83.30	100	0.30		NCF	Lb
84.30	100	0.28		NCF	Lb
84.40			2.68	NCF	Lb
85.30	100	0.30		NCF	Lb
85.80	100	0.34		NCF	Lb
87.50	82	0.38		NCF	Lb
89.20	100	0.33		NCF	Lb
91.30	52	0.25		NCF	Lb
92.40	100	0.15		NCF	Lb
94.30	111	0.32		NCF	Lb
95.00	129	0.24		NCF	Lb
96.70	100	0.19		NCF	Lb
99.80	100	2.48		NCF	Lb
100.80	100	0.22		NCF	Lb
103.30	100	0.39		NCF	Lb
106.30	100	0.26		NCF	Lb
109.30	100	0.36		NCF	Lb
112.30	100	0.32		NCF	Lb
115.30	100	0.25		NCF	Lb
118.30	100	0.12		NCF	slt
121.30	100	0.14		NCF	pmf
124.30	100	0.11		NCF	pmf
127.30	100	0.15		NCF	pmf
130.30	100	0.14		NCF	pmf
133.30	100	0.13		NCF	pmf
136.30	100	0.14		NCF	pmf
139.30	100	0.11		NCF	pmf

782133

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOG

Hole ID
YNC11

PHYSICAL PROPERTIES / RECOVERIES

Depth	Rec %	Mag	SG	Formn	Lith
142.00	93	0.05		NCF	pmf
145.10	100	0.11		NCF	pmf
148.20			2.73	NCF	pmf
148.20	100	0.02		NCF	pmf
151.30	97	0.13		NCF	pmf

YNC11

SAMPLE	FROM	TO	interval	Al2O3	SiO2	TiO2	Fe2O3	MnO	CaO	K2O	MgO	P2O5	Na2O	SO3	LOI	AI
39337	89.30	89.70	0.4	17.60	51.50	0.83	11.70	0.22	4.37	0.78	5.04	0.12	3.03	0.02	4.49	44
39338	124.90	125.20	0.3	13.20	71.60	0.36	3.69	0.06	1.37	2.56	1.74	0.05	1.60	<0.01	3.49	59
39339	145.80	146.10	0.3	14.00	71.00	0.36	3.30	0.05	1.64	2.78	1.59	0.06	1.91	0.05	3.42	55

YNC11 (values in ppm)

SAMPLE	FROM	TO	interval	Rb	Sr	V	Nb	Y	Zr
39337	89.30	89.70	0.4	41	668	294	<3	26	104
39338	124.90	125.20	0.3	129	131	8	14	39	348
39339	145.80	146.10	0.3	140	153	19	13	38	351

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
YNC10

DRILLING

Location	NEWTON CREEK
Project	YOLANDE
Prospect	NEWTON CREEK
Design By	P.M.Quayle
Logged By	P.M.Quayle
Relogged	
Commenced	23rd August 1994
Completed	30th September 1994
Drilled By	East Coast Drilling
Drill Rig	Longyear 38

OBJECTIVE

To test for mineralization in the Newton Creek Spillway conglomerate - Principal Target horizon 1800m north of the spillway. The hole is targeted 50m south and 150m below a zone of promising alteration/mineralization intersected in DDH YNC5.

RESULT

Althouugh favourable signs of mineralization and alteration were intersected, no focus is apparent.

COLLAR SURVEY (AMG)

AMG mN	5360116.0	Bearing	248.0
AMG mE	379949.0	Dip	-60.0
mN		Hole Length	529.7
mE		DH Survey Type	Single shot East
RL	514.5		

DOWNHOLE SURVEY (AMG)

Depth	Bearing	Dip
0.0	-60.00	248.00
30.0	-58.00	245.50
60.0	-58.00	246.80
100.0	-57.50	250.00
140.0	-55.00	248.00
180.0	-53.00	246.00
220.0	-53.00	246.00
260.0	-51.00	246.00
300.0	-49.00	246.00
340.0	-47.50	246.50
380.0	-46.00	246.60
420.0	-45.50	247.00
460.0	-45.00	247.00
500.0	-44.50	247.00

SIGNIFICANT CORE LOSS

From	To	Loss

POOR GROUND CONDITION ZONES

From	To	Condition

HOLE SIZE

From	To	Size
0	15	HQ
15	529.7	NQ

HOLE CONDITIONS AFTER COMPLETION

Collar	
Steel Casing	
PVC Casing	0 - 529.7M
Ground Water	NIL
Wedge	-
Drill Pad	Sump filled in and site roughly leveled.

SIGNIFICANT INTERSECTIONS

From	To	Int	Cu	Pb	Zn	Ag	Au	Comments
428.7	433.6	4.9	33	1098	2355	39	.02	1595ppm Ba 1334ppm Mn

961287

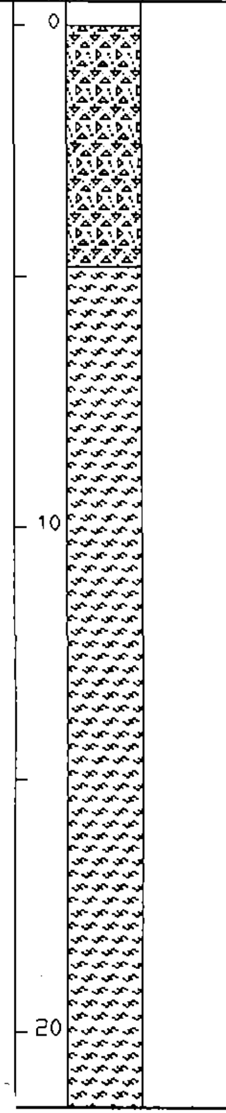
PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 150

HOLE No. **YNC10**

PROJECT: YOLANDE

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
0.00	4.80	GLACIAL DEPOSITS Red, Coarse grained, Haematitic quartzite glacials. CONTACT: Missing,			
4.80	30.40	RHYOLITE Red, Porphyritic, Massive, Quartz phyric, Feldspar phyric, Magnetite, Typical red prominantly quartz phyric Tyndall rhyolite.	Slightly Chloritised, Slightly Sericitised. Minor ragged 5 to 10cm choritic patches, and minor sericitised pumiceous patches.		

GRAPHIC (Depth, Lith, Structures)



5 cm

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 150

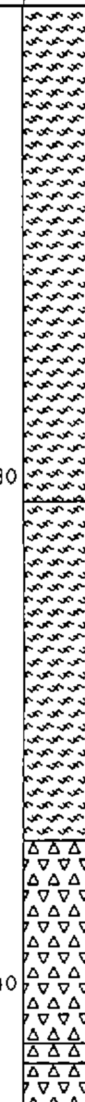
HOLE No. YNC10

PROJECT: YOLANDE

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
30.40	37.10	RHYOLITE Red, Flow banded, Porphyritic, Quartz phyric, Feldspar phyric, Brecciated rhyolite over 10cms with siliceous infilling.			PRIMARY FABRIC, A 40, Flow banding in lavas.
37.10	41.10	BRECCIA Pale, Green, Poorly sorted, Matrix supported, Lithic, Reworked altered mafic clasts in mafic derived matrix. Breccia zone with quartz veining.	Moderately Sericitised, Slightly Carbonatised, Moderate Mn? sericite/carbonate alteration possibly ponded below rhyolite.	DISSEMINATED, minor pyrite disseminated. Pyrite disseminated throughout and as fine clasts..	
41.10	41.50	BRECCIA Irregular quartz veining superimposed on siliceous zone.			
41.50	50.50	BRECCIA Yellow, Grey, Very coarse grained, Cleaved,			

GRAPHIC (Depth / Lith / Structures)

- 30
- 40



5 cm

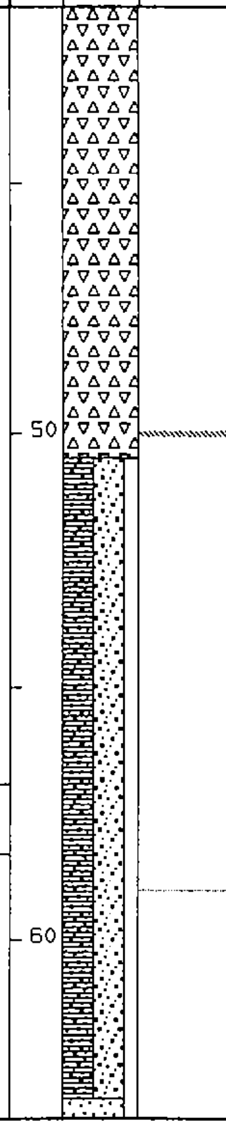
PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 150

HOLE No. **YNC10**

PROJECT: YOLANDE

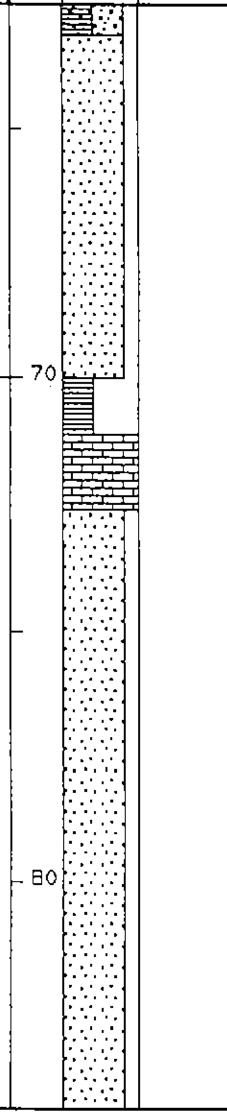
From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
		Siliceous zone.			
41.50	50.50	BRECCIA Yellow, Grey, Very coarse grained, Cleaved, Feldspar phyric, Appears to be composed of dacite? derived detritus with minor patchy fine grained siliceous material becoming polymict and coarse grained towards base. CONTACT: Conformable abrupt,			FIRST CLEAVAGE, A 45.
50.50	63.10	BLACK SHALE Grey to black shale with bands and patches of pale grey fine grained siltstone. CONTACT: Conformable abrupt, at 65 degrees to LCA.	Slightly Sericitised, Slightly Carbonatised, Moderate sericite and carbonate alteration of sandstone bands and clasts in black slates.		
		INTERBEDDED WITH GREYWACKE Coarse grained, Upwards fining sequence, Poorly sorted, Polymict, Clast types include siliceous altered sediments and volcanics and minor massive pyrite.		CLAST, minor pyrite trace sphalerite DISSEMINATED, minor pyrite associated with alteration,	PRIMARY FABRIC, A 45. Lamination in shale.
63.10	70.00	SANDSTONE Yellow, Grey, Coarse grained, Massive, Poorly	Minor ...		

GRAPHIC: Depth | Lith. | Structures



5 cm

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
63.10	70.00	SANDSTONE Yellow, Grey, Coarse grained, Massive, Poorly sorted, Unusually textured sandstone, very carbonate rich in patches resembling clasts giving a pseudoclastic appearance. CONTACT: Conformable abrupt, at 60 degrees to LCA.	Minor patchy leaching of carbonate? matrix.		
70.00	71.10	BLACK SHALE Irregular texture, a sheared mixing with carbonate sandstone.	Moderately Carbonatised. Modified limestone.	DISSEMINATED. minor pyrite disseminated, minor pyrite in veinlets,	
71.10	72.60	LIMESTONE White, Pink, Irregular texture, blotchy carbonate augen with pink haematitic cores and white rims, massive in part with stylolites, and with carbonate sandstone matrix in part. CONTACT: Conformable mixed,			
72.60	95.00	SANDSTONE Yellow, Grey, Coarse grained, Massive, Poorly sorted, Unusually textured carbonate rich sandstone with pseudoclastic texture. CONTACT: Gradational,	Slightly Carbonatised. Minor patchy alteration of irregular sandstone patches.		

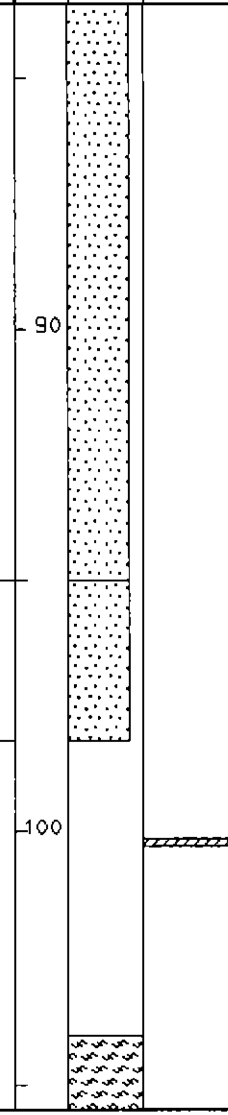


5 cm

00282

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
95.00	98.20	SANDSTONE INTERBEDDED WITH SILTSTONE Coarse grained sandstone interbedded with fine grained siltstone on a cm scale, structurally disrupted and mixed.	Highly Carbonatised, Moderately Chloritised, Carbonate veinlets and altered matrix, chloritic matrix and abundant haematite spots.	DISSEMINATED, minor pyrite disseminated, minor haematite disseminated, Pyrite associated with sericitization, haematite with carbonate/chlorite (resembles Howards jasper)..	
98.20	104.00	FAULT ZONE (PUG) Zone of massive white quartz, green chlorite, with pale grey sacharoidal carbonate, and pink/red heamatite alteration in part. This mixed with both sandstone and rhyolite.	Highly Chloritised, Moderately Carbonatised, Moderately Silicified, Massive quartz chlorite carbonate veining superimposed on zone of carbonate/chlorite alteration.	DISSEMINATED, minor pyrite disseminated, minor haematite disseminated, trace chalcopyrite disseminated, Associated with vein massive chlorite/quartz, and carbonate and possibly barite..	VEIN, Quartz, Chlorite, Carbonate. Irregular veining at contact with rhyolite sill.
104.00	153.00	RHYOLITE Red, Coarse grained, Massive, Porphyritic, Quartz phyric, Feldspar phyric, Typical Tyndall rhyolite prominantly quartz phyric and haematitic.	Haematitic zone.		

GRAPHIC: Depth | Lith | Structures



5 cm

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 150

HOLE No. **YNC10**

PROJECT: YOLANDE

DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
		Quartz phyric, Feldspar phyric, Typical Tyndall rhyolite prominantly quartz phyric and haematitic. CONTACT: Faulted,			110 120			

5 cm

782202

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 150

HOLE No. **YNC10**

PROJECT: YOLANDE

DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
			Haematitic zone.		130 140			

782203

PASMINCO EXPLORATION

DIAMOND DRILL CORE LOG

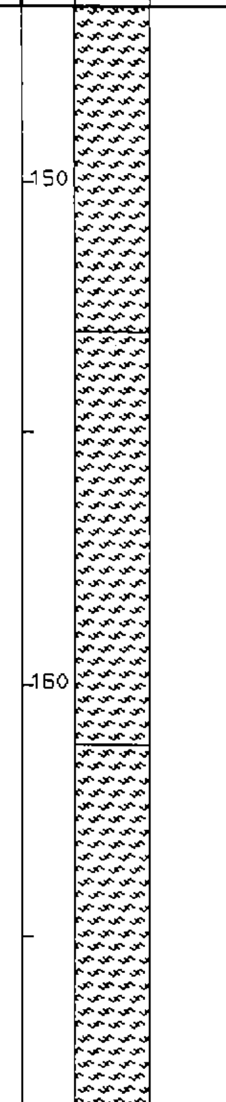
Vertical Scale 1 : 150

HOLE No. YNC10

PROJECT: YOLANDE

From	To	DESCRIPTION: LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
153.00	161.20	RHYOLITE Grey, Green, Coarse grained, Massive, Porphyritic, Quartz phyric, Feldspar phyric,			
161.20	229.00	RHYOLITE Red, Grey, Coarse grained, Massive, Porphyritic, Quartz phyric, Feldspar phyric, Typical Tyndall rhyolite, prominantly quartz phyric, feldspar phyric and haematitic. CONTACT: Conformable mixed, Irregular contact at low angle to core axis but with apparent peperitic contact?	Haematitic zone.		

GRAPHIC (Depth / Lith / Structures)



5 cm

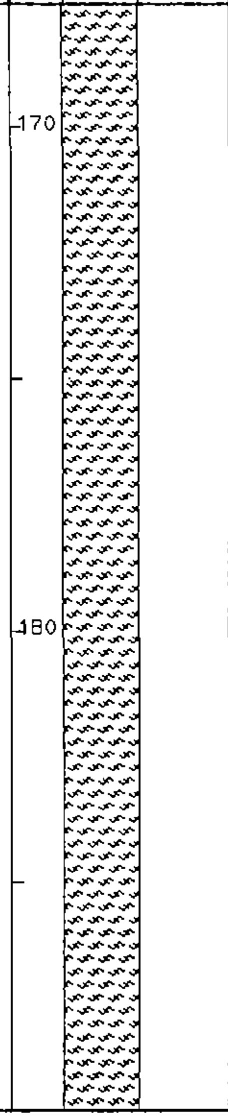
782205

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 150

HOLE No. **YNC10**

PROJECT: YOLANDE

DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES



5 cm

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 150

HOLE No. **YNC10**

PROJECT: YOLANDE

DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					190			
								BROKEN CORE. Chlorite, Sericite. Irregular zone of brecciation and fracturing.
					200			
					210			

5 cm

782206

782207

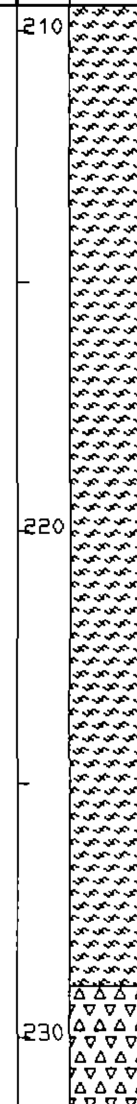
PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. **YNC10**

PROJECT: YOLANDE

Vertical Scale 1 : 150

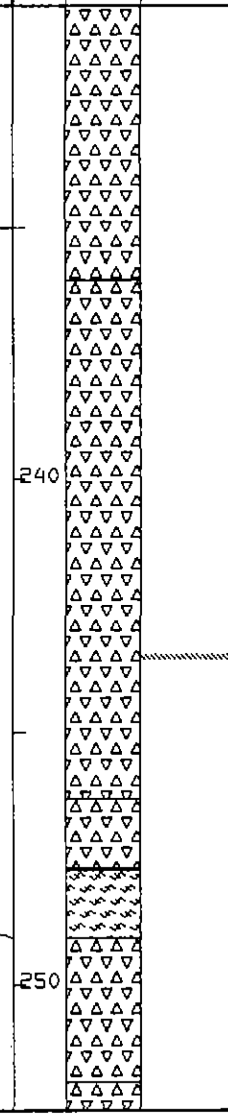
DESCRIPTION					GRAPHIC	
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth / Lith / Structures	STRUCTURES
229.00	236.00	BRECCIA CONTAINING CLASTS OF DACITE Yellow, Green, Coarse grained, Poorly sorted, Reworked, poorly sorted dacitic to andesitic detritus, sericite and silics altered and manganese stained. Clasts up to 3cms andesitic in appearance are either dark green chloritic or cream to	Moderately Sericitised, Moderately Carbonatised, With Mn stain.			



5 cm

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
		manganese stained. Clasts up to 3cms andesitic in appearance are either dark green chloritic or cream to pink silicified, they are feldspar phenocryst poor and leucoxene rich. CONTACT: Gradational.			
236.00	246.30	BRECCIA CONTAINING CLASTS OF DACITE Green, Coarse grained, Poorly sorted, Reworked, Reworked dacitic to andesitic detritus, more massive and less altered than previous interval. Clasts fine to 2cm grey green chloritic to grey silicified in fine grained yellow-green grey matrix with minor sericite alteration in part and minor carbonate alteration in part. Note patch of dense red siliceous quartz phyric volcanic, possibly a thin irregular rhyolite intrusive. CONTACT: Gradational.		DISSEMINATED. minor pyrite disseminated. Minor 2mm cubes of pyrite associated with chlorite and carbonate and trace haematite. Note silicification emanating from fracture..	FIRST CLEAVAGE. A 45.
246.30	247.74	BRECCIA Yellow, Lithology similar to previous interval, but sericitised possibly due to intrusion. Intrusive contact, sharp with carbonate veining at contact.	Moderately Sericitised. Slightly Carbonatised. Slightly Chloritised.		
247.70	249.10	RHYOLITE Grey, Porphyritic, Quartz phyric, Feldspar phyric, Abundant prominant 2 to 4 mm rounded quartz phenocrysts in a sericitized slightly sheared matrix. Note band of fine quartz phenocrysts towards base of interval. Sharp irregular.			
249.10	251.90	BRECCIA MIXED WITH SILTSTONE Cream, Grey, Poorly sorted, Reworked dacitic to andesitic detritus, grading to fine sediment with minor banding. CONTACT: Gradational.		DISSEMINATED. minor pyrite associated with alteration. Mineralization emanating from fracture/breccia. associated with sericitization. vein carbonate breccia infilling. Note presence of 1.4m band of quartz phyric rhyolite..	
251.90	256.00				

GRAPHIC (Depth, Lith, Structures)



5 cm

PASMINCO EXPLORATION

DIAMOND DRILL CORE LOG

Vertical Scale 1 : 150

PROJECT: YOLANDE

HOLE No. YNC10

DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
		[illegible] CONTACT: Gradational,		presence of 1.4m band of quartz phyric rhyolite..				
251.90	256.00	BRECCIA Green, Grey, Reworked, Poorly sorted, Reworked andesitic detritus dark green feldspar phenocryst poor. Texture either tending to massive with carbonate alteration or cleaved with sericite alteration. CONTACT: Gradational,						
256.00	262.00	BRECCIA Grey, Green, Poorly sorted, Reworked, Reworked poorly sorted andesitic detritus grading to 20cm well sorted fine grained massive band. CONTACT: Gradational,			260			
262.00	277.50	BRECCIA Grey, Green, Poorly sorted, Reworked, Reworked andesitic detritus. Patches of minor silica alteration, and patches of minor carbonate alteration affect textures. Minor irregular yellow-pink carbonate veining with minor pyrite. CONTACT: Gradational,			270			

5 cm

782209

From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	STRUCTURES
						FIRST CLEAVAGE. D 85.
277.50	282.00	ALTERATION ZONE Yellow, Poorly sorted, Reworked, Carbonate alteration zone, massive in part, and with textures resembling reworked andesitic/dacitic debris in part. Minor silicified clasts os pseudo clasts, patches with abundant disseminated pyrite, and sericitic sheared texture in part. CONTACT: Gradational,	Highly Quartz-sericite-pyrite. Mn staining.	DISSEMINATED. minor pyrite associated with alteration, trace galena associated with alteration, trace sphalerite associated with alteration. Associated with sericite/carbonate alteration..	280	
282.00	291.10	ALTERATION ZONE Cream, Massive, Comprises 1 to 3mm carbonate granules wrapped by sericite, the relative abundance of carbonate to sericite determines wether the texture is massive or cleaved. Distinct Mn staining. Trace disseminated pyrite and galena in part throughout. (Possibly altered dacite sill). CONTACT: Gradational,		DISSEMINATED. trace pyrite associated with alteration, trace galena associated with alteration, trace sphalerite associated with alteration. Associated with sericite/carbonate alteration..	290	
291.10	298.60	ALTERATION ZONE Cream, Zone comprises carbonate sericite alteration similar to previous interval but with pseudo clastic texture with the pseudo-clasts being islands of lesser altered dacite? Pseudo-clasts are 1 to 40mm are angular and appear to be "in place". The clasts appear to be feldspar(altered to carbonate) phyric. CONTACT: Faulted, No significant lithological change over				FIRST CLEAVAGE. A 42.

5 cm

082210

PASMINCO EXPLORATION

DIAMOND DRILL CORE LOG

Vertical Scale 1 : 150

HOLE No. **YNC10**

PROJECT: YOLANDE

DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
		be feldspar(altered to carbonate) phyric. CONTACT: Faulted, No significant lithological change over the contact.						
298.60	306.20	ALTERATION ZONE Cream, Zone comprises carbonate sericite alteration similar to previous interval, but with indistinct banding suggesting reworking. Note minor irregular very fine distinctly cream coloured carbonate Pb+Zn veining. CONTACT: Gradational,			300			FAULT, A 40, Brittle, Parlallel to cleavage.
306.20	314.60	ALTERATION ZONE GRADING TO BRECCIA Cream, Green, Zone grades from carbonate alteration to reworked hyaloclastic dacite debris from 310m. CONTACT: Conformable abrupt,		DISSEMINATED, 1% pyrite disseminated. Throughout sandstone layer..	310			
314.60	315.60	BRECCIA GRADING TO SANDSTONE Grey, Green, Coarse grained, Poorly sorted, Upwards fining sequence, Polymict, Lithic, Resembles lower spillway conglomerate. Clasts from 20mm comprise mafics, altered mafics, white and pink fine grained siliceous, pyritic and siltstone types. Band grades to massive coarse grained green mafic? derived sandstone. CONTACT: Conformable abrupt,						

5 cm

112287

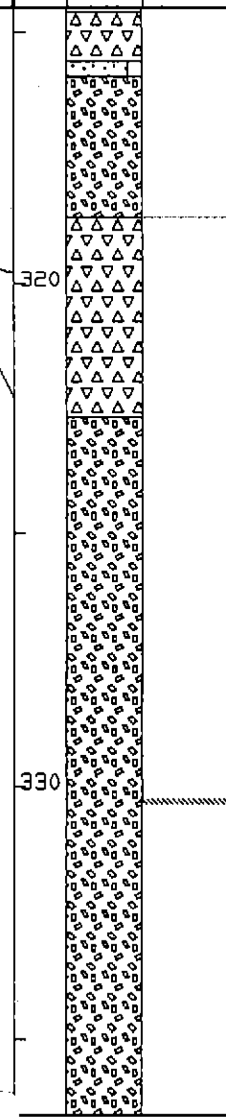
PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 150

HOLE No. **YNC10**

PROJECT: YOLANDE

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
314.60	315.60	sandstone. CONTACT: Conformable abrupt,			
315.60	315.90	SANDSTONE CONTAINING LAMINAE OF SILTSTONE Upwards fining sequence, Bedded, Zone of upwards fining beds upto 30mm thick grading from fine sandstone to siltstone, dark green in colour. CONTACT: Conformable abrupt,			FIRST CLEAVAGE, A 40.
315.90	318.70	DACITE Grey, Green, Hyaloclastitic, Irregular patches of feldspar phyric dacite in dacite derived matrix. CONTACT: Conformable abrupt,			FIRST CLEAVAGE, D 90.
318.70	322.70	BRECCIA GRADING TO SANDSTONE Grey, Green, Coarse grained, Upwards fining sequence, Polymict, Lithic, Clasts from 3cms predominantly feldspar phyric dacite, altered dacite, and fine pink siliceous type. Grades into massive grey green sandstone, and to shale. CONTACT: Faulted, at 30 degrees to LCA. Carbonate pyrite vein 10mm.	Moderately Sericitised, Slightly Chloritised, Slightly Oxidised.	DISSEMINATED. minor pyrite disseminated. Throughout sandstone layer..	PRIMARY FABRIC, A 45.
322.70	338.20	DACITE Yellow, Green, Hyaloclastitic, Feldspar phyric, Zone of green-grey feldspar phyric clasts upto 12cms in a matrix composed of yellow sericitized dacitic debris. Note zone of pink (haematite?) altered dacite clasts in pale green chloritic? matrix from 325.7 to 331m. CONTACT: Conformable abrupt,	Moderately Carbonatised, Moderately Sericitised.	DISSEMINATED. minor pyrite associated with alteration, Associated with irregular white carbonate veinlets..	

GRAPHIC



5 cm

782212

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

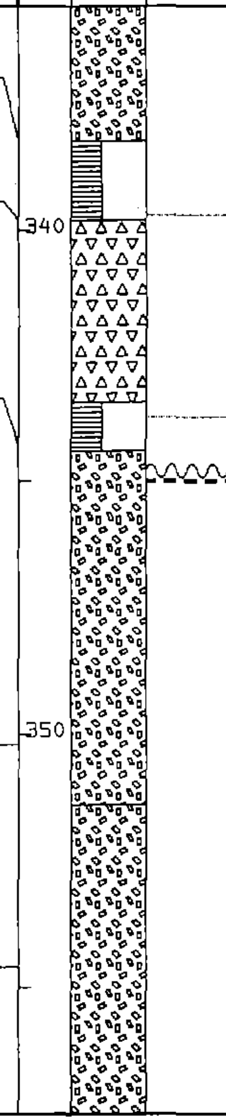
HOLE No. **YNC10**

PROJECT: YOLANDE

Vertical Scale 1 : 150

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
338.20	339.80	BLACK SHALE Grey black shale with fine laminae of carbonate rich siltstone and abundant 1mm bedding parallel veins, and minor irregular carbonate sphalerite pyrite veinlets. Minor 10cm coarse grained upwards fining bed. CONTACT: Conformable abrupt,		DISSEMINATED, minor pyrite disseminated, very minor sphalerite in veinlets. Very fine disseminated pyrite throughout balck shale, and trace red sphalerite associated with carbonate veinlets..	
339.80	343.40	BRECCIA CONTAINING CLASTS OF DACITE Yellow, Green, Coarse grained, Hyaloclastitic, Polymict, Hyaloclastite in part, and polymict breccia in part irregular texture. Clasts include fine grained siliceous, and pale grey siltstone. Matrix is sericite carbonate altered. Note bands of minor disseminated pyrite in carbonate rich layers. CONTACT: Conformable abrupt,	Moderately Carbonatised, Moderately Sericitised,	DISSEMINATED, very minor pyrite associated with alteration, very minor sphalerite associated with alteration. Sphalerite is associated with the boundary between sericitised dacite? clasts? and in carbonate altered matrix..	PRIMARY FABRIC, 0 90.
343.40	344.40	BLACK SHALE Pale grey siltstone grading to black shale. Minor disseminated pyrite throughout.		DISSEMINATED, very minor sphalerite associated with alteration, Fine sphalerite replacing matrix in chloritic dacite? clast, and as fine disseminations in irregular cherty bands..	BEDDING, A 55. FOLD, Drag fold in cherty band indicates steep west up movement.
344.40	351.40	DACITE Buff, Green, Hyaloclastitic, Dacite from dark green with carbonate altered feldspars, to buff carbonate/sericite altered rock with minor irregular bands and patches of cryptocrystaline grey silica, possibly cherty mudstone baked by lava? or siliceous deposit infilling fractures? Also cut by irregular fine buff-yellow carbonate veining. CONTACT: Gradational,			FAULT, Cleavage parallel fault with 5cm displacement west side up.
351.40	364.00	DACITE ALTERATION ZONE Buff, Massive, Massive carbonate altered dacite (similar to altered zone in YNC5). Abundant irregular fine yellow carbonate veinlets with red sphalerite, and galena. Minor massive white quartz veins. CONTACT: Gradational,	Highly Carbonatised, Moderately Sericitised, Correlates with altered zone in YNC5. Test for K2O.	VEIN, 0.1% sphalerite in veinlets, very minor pyrite disseminated, trace galena disseminated, Red sphalerite in irregular carbonate veinlets, and minor sphalerite, pyrite and galena disseminated close to veinlets.. VEIN, 0.2% sphalerite in veinlets, very minor pyrite disseminated, very minor galena disseminated, Sphalerite associated with irregular carbonate veinlets, and irregular cherty veinlets in part, Galena and pyrite occur in	

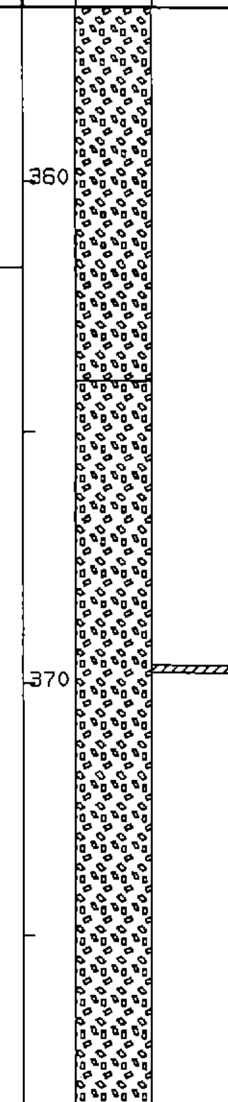
GRAPHIC (Depth / Lith / Structures)



5 cm

782213

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
				veinlets, and irregular cherty veinlets in part. Galena and pyrite occur in veinlets, and disseminated around veinlets..	
				DISSEMINATED, trace sphalerite in veinlets, trace sphalerite associated with alteration, Trace sphalerite, galena and pyrite throughout, in veinlets or disseminated in more altered bands, associated with chlorite in part..	
364.00	384.40	DACITE ALTERATION ZONE Grey, Buff, Massive, Similar to above interval but with less intense alteration. Minor massive white quartz veins in part and minor fine irregular carbonate viens in part. CONTACT: Gradational,	Moderately Carbonatised. Moderately Sericitised.		VEIN, Quartz, Zone of white quartz veining and breccia infill.



5 cm

7822114

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

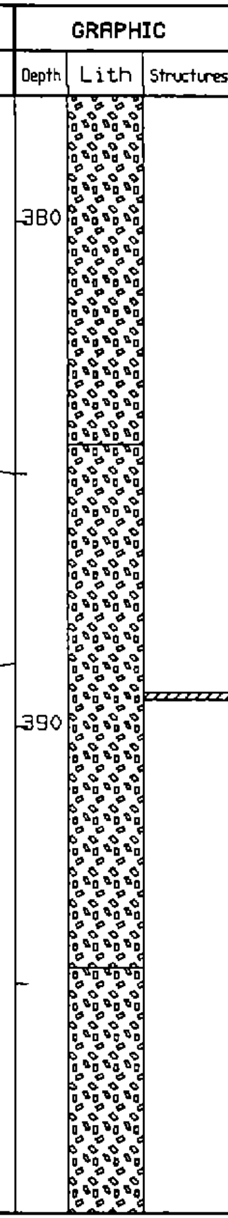
HOLE No. **YNC10**

PROJECT: YOLANDE

Vertical Scale 1 : 150

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
384.40	394.70	DACITE ALTERATION ZONE Buff, Zone of intense carbonate alteration and abundant white quartz and yellow carbonate breccia? infilling. A complex paragenesis of veining. Carbonate is coalescing radial spots in part. Note trace pale pink carbonate. CONTACT: Gradational,	Highly Carbonatised, Moderately Sericitised, Similar to altered zone in YNC5.	DISSEMINATED, minor sphalerite associated with alteration, trace galena associated with alteration, trace pyrite associated with alteration, Zone with intense carbonate alteration, and several episodes of veining and breccia infilling with clear and white quartz, buff carbonate and chlorite.. VEIN, very minor sphalerite in veinlets, In low angle irregular carbonate veinlets..	VEIN, Quartz, Carbonate, Chlorite. Zone of low angle irregular carbonate veinlets with superimposed white quartz, yellow carbonate and minor chlorite veining and breccia infilling.
394.70	426.80	DACITE Grey, Massive, Feldspar phyric, Similar to above intervals but with less intense alteration. CONTACT: Gradational,	Moderately Carbonatised, Slightly Sericitised, Similar to previous interval but less intense.		

GRAPHIC



5 cm

PASMINCO EXPLORATION

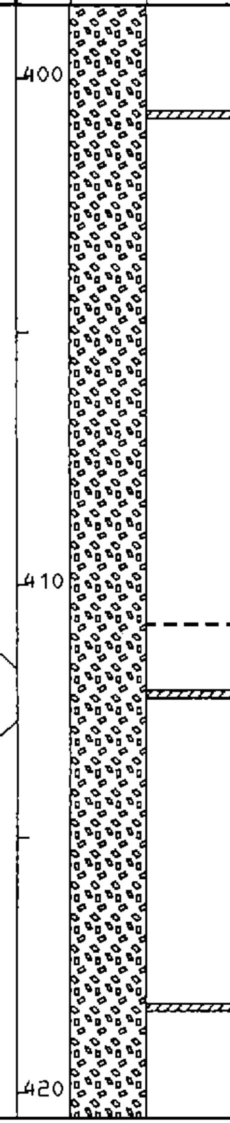
DIAMOND DRILL CORE LOG

HOLE No. **YNC10**

PROJECT: YOLANDE

Vertical Scale 1 : 150

DESCRIPTION					GRAPHIC	
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth / Lith / Structures	STRUCTURES
						VEIN, Quartz, Carbonate, Zone of white quartz and yellow carbonate veining.
			Slightly Carbonatised, Slightly Sericitised, Similar to previous interval but less intense.			
						FAULT, Minor displacement on fine irregular veinlets sub-vertical and at low angle to core indicates north block to the east sense of movement.
				VEIN, very minor sphalerite in veinlets. Coarse grained dark sphalerite in quartz chlorite veins..		VEIN, Quartz, Chlorite, Minor sub-horizontal veins with perpendicular crystal growth.
			Moderately Carbonatised, Moderately Sericitised, Similar to previous interval but more intense, note feldspars carbonatized.	DISSEMINATED, trace pyrite disseminated, trace sphalerite disseminated, trace galena disseminated. Trace very fine disseminated sulphides throughout..		
						VEIN, Quartz, Chlorite, Minor sub-horizontal veins with perpendicular crystal growth.



5 cm

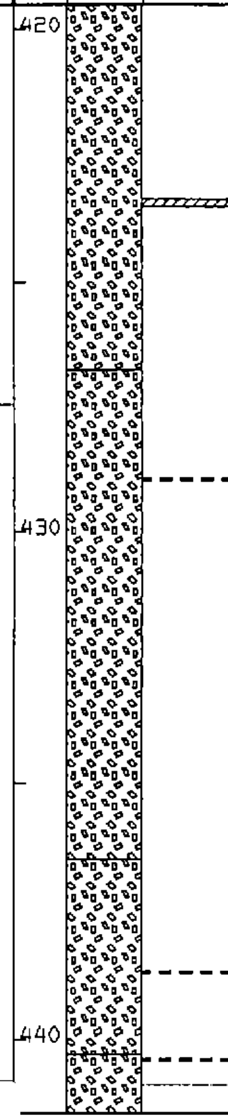
PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 150

HOLE No. **YNC10**

PROJECT: YOLANDE

From	To	LITHOLOGY	ALTERATION	MINERALISATION
426.80	436.50	DACITE ALTERATION ZONE Buff, Massive, Similar to above intervals but with more intense alteration, and apparent decrease in feldspars.		DISSEMINATED, minor sphalerite disseminated, minor galena disseminated, Disseminated sulphides throughout, associated with pale grey crypticrystaline silica in part? possibly stringer bands..
		DACITE Buff, Grey, Hyaloclastitic, Feldspar phyric, Similar to above intervals but with fragmental texture, jigsaw fit in part clasts upto 30mm, in dacite derived matrix. CONTACT: Conformable abrupt,		
436.50	440.30	DACITE MIXED WITH SILTSTONE Grey, Green, Coarse grained, Hyaloclastitic, Dacite derived breccia mixed with bands or incorporated patches of shale to siltstone. CONTACT: Conformable abrupt,		
		DACITE BRECCIA Grey, Green, Very coarse grained, Dacite derived breccia. CONTACT: Conformable abrupt,		
440.30	441.70	TURBIDITE Pale, Grey, Fine grained, Upwards fining sequence, Comprises several 10 to 20mm upwards fining bands from fine grained sandstone to siltstone. Distinct appearance in contrast to lava deris.		

GRAPHIC: Depth | Lith | Structures



STRUCTURES

- VEIN, Quartz, Sub-horizontal massive white quartz vein.
- FAULT, Hairline fracture, sub vertical trending north-south, displacement direction not determined.
- FAULT, Sub-vertical fault with undetermined movement direction.
- FAULT, Brittle, Sub-vertical fault trending NNW-SSE
- BEDDING, 0 75, Oriented on

5 cm

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. YNC10

PROJECT: YOLANDE

Vertical Scale 1 : 150

DESCRIPTION

From	To
440.30	441.70
441.70	444.20
[illegible]	[illegible]
[illegible]	[illegible]
447.70	448.30
448.30	449.40
449.40	451.40
451.40	452.80
452.80	453.80
453.80	454.90
454.90	456.50
456.50	458.10
458.10	459.40
459.40	463.70

LITHOLOGY

bands from fine grained sandstone to siltstone. Distinct appearance in contrast to lava deris. Appears to be unconformable, possibly deposited in a hollow in lava debris.

DACITE Grey, Green, Very coarse grained, Hyaloclastitic, Dacite derived breccia.
CONTACT: Conformable abrupt,

TURBIDITE Pale, Grey, Fine grained, Upwards fining sequence, Several fine upwards fining bands.
CONTACT: Conformable mixed,

DACITE Grey, Green, Very coarse grained, Hyaloclastitic, Zone of mixed dacite and pumiceous derived sandstones grading to fine grained tops.
CONTACT: Conformable abrupt,

BASIC VOLCANICLASTIC Pale, Green, Zone of 5 to 15mm angular monomict pale green finely vesicular mafics in a fine pumiceous? matrix.

SILTSTONE INTERBEDDED WITH SANDSTONE Zone of cherty siltstones interbedded with shaley sandstones.

INTERMEDIATE VOLCANICLASTIC Grey, Green, Zone of 10 30mm dacite clasts in dacite derived matrix.

BASIC VOLCANICLASTIC Pale, Green, Coarse grained, Distinct monomict clastic with 5 to 10mm ragged flattened pale green altered (0.5mm) vesicular mafic clasts in matrix of fine pumiceous? detritus grading to fine grained sandstone tops.
CONTACT: Faulted,

DEFORMED ZONE Pale, Fine grained, Brecciated, Zone of brecciated cherty siltstone and sericitized sandstone.
CONTACT: Faulted,

SANDSTONE Grey, Medium grained, Pumiceous, Zone of massive pumiceous sandstone.
CONTACT: Conformable abrupt,

SILTSTONE INTERBEDDED WITH SANDSTONE Pale, Grey, Fine grained, Laminated, Zone of interbedded laminated pale grey cherty and dark grey shaley siltstones to sandstones.

INTERMEDIATE VOLCANICLASTIC Green, Grey, Zone of dacite derived detritus.

SILTSTONE INTERBEDDED WITH SANDSTONE Pale, Grey, Fine grained, Zone of pale grey fine grained cherty siltstones with prominant slump? folded texture.

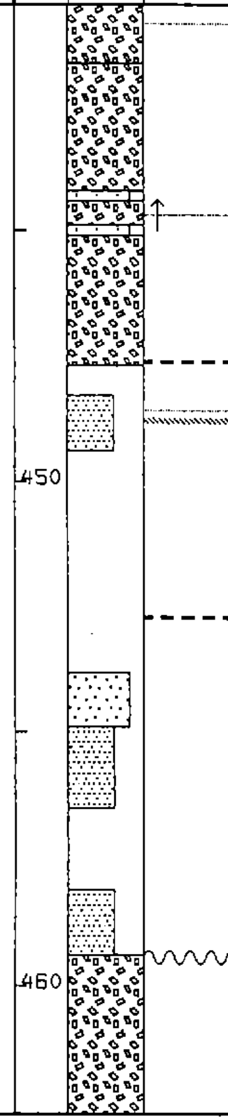
ALTERATION

Slightly Carbonatised, Slightly Sericitised, Minor pervasive carbonate sericite alteration throughout, also minor bands with altered mafic clasts.

MINERALISATION

GRAPHIC

Depth | Lith | Structures



STRUCTURES

Trending NNW-SSE

BEDDING, D 75, Oriented on cleavage.

BEDDING, D 80, Younging uphole, Oriented on cleavage.

FAULT, D 75, Brittle, Pug.

BEDDING, D 80, Good bedding.

FIRST CLEAVAGE, D 80.

FAULT, Shear, Sub-vertical trending northerly with east side up.

5 cm

81228

PASMINCO EXPLORATION

DIAMOND DRILL CORE LOG

HOLE No. **YNC10**

PROJECT: YOLANDE

Vertical Scale 1 : 150

From	To
463.70	464.50
464.50	465.80
465.80	467.30
467.30	470.60
470.60	472.80
472.80	479.80
479.80	480.40
480.40	483.90

DESCRIPTION

LITHOLOGY

grained, zone of pale grey fine grained cherty siltstones with prominant slump? folded texture.

DACITE Grey, Green, Hyaloclastitic, Zone of abundant ragged 5 to 50 mm jigsaw fit dacite clasts in a dacite derived matrix with hyaloclastic contacts, and minor altered siliceous volcanic clasts. Resembles "upper spillway conglomerate".
CONTACT: Conformable mixed,

SILTSTONE INTERBEDDED WITH SANDSTONE Interbedded laminated siltstone and sandstone with distinct slump? folding texture.

SILTSTONE INTERBEDDED WITH SANDSTONE Upwards fining sequence, Zone of irregular 10 to 20cm interbeds of pale cherty and dark shaley siltstone and sandstones finely laminated in part and with minor 10 to 20mm clasts in part.

SANDSTONE Green, Grey, Massive to upwards fining sandstone comprising dacite derived and pumiceous debris.
CONTACT: Conformable abrupt,

BASIC VOLCANICLASTIC Green, Grey, Coarse grained, Distinct monomict breccia coposed of 1 to 20mm ragged and flattened pale green (0.5mm) vesicular mafic clasts in darker grey-green matrix composed of mixed mafic and pumiceous dedris. Pumice and mafics are sericitized, and Mn staining is pervasive throughout.
CONTACT: Conformable abrupt,

BRECCIA Grey, Green, Medium grained, Coarse grained, Lithic, Zone of irregular dacite/andesite derived sandstone with scattered 10mm pale altered vesicular mafic clasts. Vesicles are 0.5mm and clasts are not flattened.
CONTACT: Conformable abrupt,

BRECCIA Green, Grey, Coarse grained, Poorly sorted, Polymict, Zone of several 2m massive polymict breccias with 10 to 20cm graded tops. Clasts predominantly siliceous sediments? vesicular mafics, and siliceous volcanics and pumiceous clasts. Abundant disseminated pyrite throughout. Well developed cleavage picked out by sericite. Mn staining is pervasive throughout. Resembles "lower spillway wacke".
CONTACT: Conformable abrupt,

BRECCIA Green, Grey, Coarse grained, Cleaved, Lithic, Upwards fining breccia composed predominantly of flattened pale altered vesicular3 to 10mm mafic clasts.

ALTERATION

MINERALISATION

MASSIVE, abundant pyrite associated with alteration, semi-massive pyrite, fine to recrystaline coarse grained, with trace sphalerite/chlorite replacement associated with carbonate alteration..

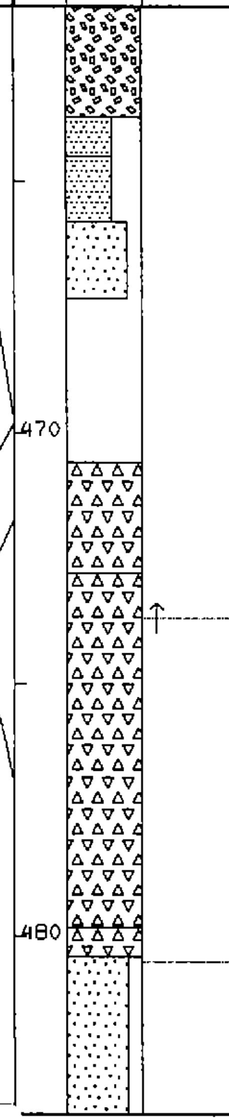
CLAST, very minor pyrite disseminated, Minor 10 to 30mm clast-like patches of massive pyrite, with grainsize from very fine to coarse recrystalline..

DISSEMINATED, minor pyrite disseminated, Ubiquitous fine grained pyrite disseminated throughout the matrix, with minor fine pyritic bedding parallel laminae..

DISSEMINATED, very minor sphalerite disseminated, very minor galena disseminated, trace chalcopyrite disseminated, Patchy pods of red sphalerite 1 to 10mm often associated with chlorite and carbonate alteration in siliceous bands. Galena in finer grained often surrounding sphalerite, and trace chalcopyrite is selvage to sulphides..

GRAPHIC

Depth | Lith | Structures



STRUCTURES

FOLD, Zone with abundant evidence of folding, generally associated with slip planes and disruptions possibly indicating drag folding or slumping disruption. If drag folding then movement direction is east side up sub-vertical trending northerly.

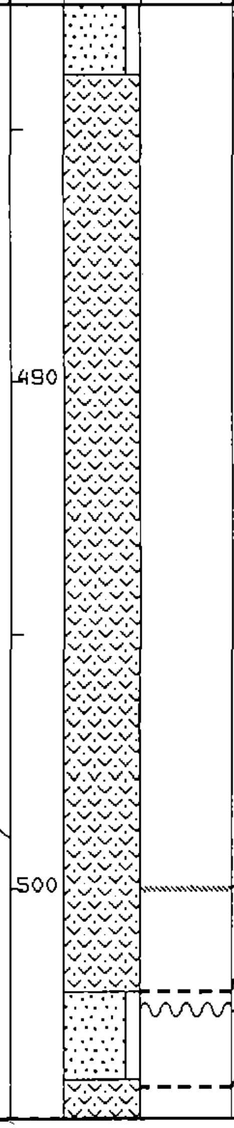
BEDDING, A 50, Grading uphole,

5 cm

1782218

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
		Upwards fining breccia composed predominantly of flattened pale altered vesicular3 to 10mm mafic clasts. Strong fabric developed. CONTACT: Conformable abrupt,			PRIMARY FABRIC, Zone with minor carbonate veining.
		SANDSTONE Grey, Medium grained, Massive, Pumiceous, Cleavage picked out by abundant sericite laths. Common irregular carbonate veinlets. CONTACT: Conformable abrupt,			
483.90	502.00	PUMICEOUS MASS FLOW Pink, Grey, Pumiceous, Feldspar phyric, Abundant 1mm pink feldspars in breccia composed of 2 to 10mm pumice clasts. Upper contact is somewhat gradational with overlying sediments. Abundant 10 to 50mm pink siliceous dacite clasts throughout, possibly xenoliths. Minor carbonate veining throughout. CONTACT: Faulted, at 35 degrees to Sharp, 3mm sericite, no mixing.	Moderately Silica-albite, Distinct salmon pink alteration.associated with fractures.	CLAST, very minor pyrite massive, Minor 10mm clasts of fine grey possibly siltstone containing disseminated to massive pyrite. Trace disseminated pyrite in pink dacite? clasts..	FIRST CLEAVAGE, D 85.
502.00	503.70	SANDSTONE Green, Grey, Medium grained, Graded sandstone possibly representing graded top of pumiceous mass flow grading to fine grained siltstone. Both contacts appear to be faulted however there is am mixing of feldspars in the sandstone at the base. CONTACT: Faulted, at 60 degrees to Zone of 10cm brecciation, containing fragments of both units and minor carbonate veining.			FAULT, A 35, Shrap contact between two lithologies with 3mm sericite band. FOLD, Possible slump fold.
503.70	507.80				FAULT, Breccia, Irregular mixed contact, possibly fault breccia, but also

GRAPHIC (Depth, Lith, Structures)

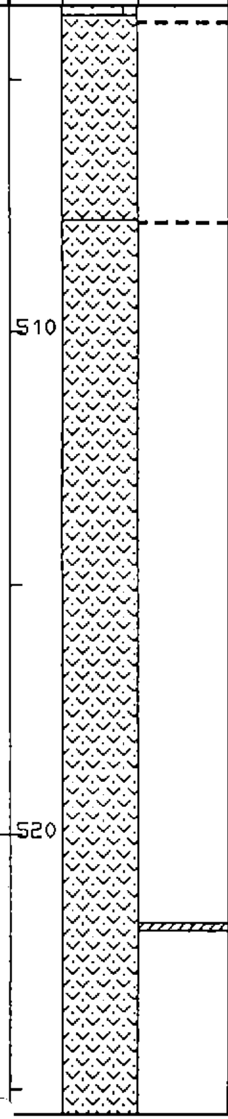


5 cm

0782290

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
503.70	507.80	brecciation, containing fragments of both units and minor carbonate veining. PUMICEOUS MASS FLOW Green, Grey, Pumiceous, Feldspar phyric, Pink 1mm feldspar crystal rich pumice breccia, with minor 10mm pink dacite clasts. CONTACT: Faulted, at 70 degrees to Brittle with pug.			mixed contact, possibly fault breccia, but also depositional mixing of lithologies. FAULT, A 70, Breccia, Pug, Zone of pug and quartz-carbonate gravel seperating pumice breccias with different alteration, possibly late structure.
507.80	529.70	PUMICEOUS MASS FLOW Grey, Pink, Coarse grained, Pumiceous, Feldspar phyric, Abundant 1mm pink feldspars, in sericite-silica and chlorite altered 3mm pumiceous fragments. Pumice fragments are un compacted and are randomly alligned in part. Minor 5mm pink dacite? clasts occur throughout, these clasts are siliceous contain disseminated pyrite and resemble outcrop in Newton Creek below andesite contact, and clasts in pumice breccia in YNC7 and in stratified mafic breccia in spillway. Trace clasts of dark grey very fine grained and very pyritic rock in part. Xenoliths?	Moderately Silica-albite, Distinct salmon pink alteration apparently emmanating from frcatures.	DISSEMINATED, very minor pyrite disseminated, Very minor pyrite disseminated or in irregular carbonate veinlets or stringers..	VEIN, A 20, Quartz, Carbonate,

GRAPHIC



5 cm

122287

PASMINCO EXPLORATION

DIAMOND DRILL CORE LOG

Vertical Scale 1 : 150

HOLE No. **YNC10**

PROJECT: YOLANDE

DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					530			
					540			

5 cm

782222

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID YNC10

ASSAY RESULTS

From	To	Samp	Int	Cu	Pb	Zn	Ag	Au	Fe	Ba	As	Mn
37.10	41.10	38723	4.0	106	586	772	2	0.01	7.79	1200		1478
56.90	58.30	38724	1.4	19	27	90	<1	0.01	3.08	815		553
59.60	61.70	38725	2.1	44	194	234	1	<0.008	3.70	630		1451
70.00	71.00	38565	1.0	18	175	125	<1	<0.008	1.81	400		1415
71.00	72.00	38566	1.0	23	48	68	<1	<0.008	0.91	129		1695
72.00	72.60	38567	0.6	6	10	38	<1	<0.008	1.24	79		1768
95.00	96.00	38568	1.0	17	38	111	<1	<0.008	3.59	1390		1117
96.00	97.40	38569	1.4	8	4	154	<1	<0.008	5.08	1340		754
97.40	98.00	38570	0.6	83	5	90	<1	<0.008	3.92	510		2017
98.00	100.00	38571	2.0	53	5	260	<1	<0.008	5.69	665		1098
100.00	102.00	38572	2.0	164	10	77	<1	<0.008	2.84	685		1245
102.00	104.00	38573	2.0	13	3	77	<1	<0.008	3.43	1700		1143
249.80	250.90	38744	1.1	43	270	150	3	<0.008	2.02	2670		1527
277.70	279.10	38726	1.4	58	405	331	1	0.01	2.04	1350		1950
279.10	280.40	38727	1.3	71	262	505	1	0.03	3.17	1180		8500
284.60	286.50	38728	1.9	41	557	1109	<1	0.01	2.90	1020		10800
302.20	303.40	38729	1.2	53	464	990	<1	0.01	3.68	2630		8400
303.40	304.90	38730	1.5	177	4968	3004	2	0.03	4.04	2620		19100
354.60	356.30	38731	1.7	20	770	290	1	<0.008	3.64	1350		12000
356.30	358.20	38732	1.9	15	753	1090	1	0.01	2.84	1140		9800
358.20	359.20	38733	1.0	95	943	8300	4	0.02	3.18	1800		12600
359.20	360.70	38734	1.5	16	523	1053	1	0.02	3.65	1690		14500
360.70	361.70	38743	1.0	9	254	845	<1	<0.008	3.10	1960		11400
385.00	386.10	38735	1.1	8	70	613	<1	<0.008	3.42	1260		6900
386.10	387.30	38736	1.2	12	1194	2495	1	<0.008	4.96	1340		13400
387.30	388.70	38737	1.4	2	105	213	<1	<0.008	3.79	885		4766
389.80	390.20	38738	0.4	3	73	201	<1	<0.008	3.03	1060		2742
427.50	428.70	38739	1.2	13	382	666	2	0.01	1.95	1220		1849

From	To	Samp	Int	Cu	Pb	Zn	Ag	Au	Fe	Ba	As	Mn
428.70	430.70	38740	2.0	30	739	1835	8	0.02	1.22	1460		1161
430.70	431.80	38741	1.1	50	2137	5500	78	0.04	1.21	1270		1811
431.80	433.60	38742	1.8	25	863	1012	50	<0.008	1.49	1940		1234
469.70	470.60	38745	0.9	28	66	132	1	<0.008	2.32	895		1230
477.00	478.30	38746	1.3	245	2422	4548	3	0.42	2.95	950		2462
488.90	489.20	38747	0.3	13	32	132	<1	<0.008	2.30	1040		788
500.70	501.00	38748	0.3	16	16	71	<1	<0.008	2.03	1160		772
514.70	515.00	38749	0.3	4	10	64	<1	<0.008	1.87	800		531
528.10	528.50	38750	0.4	4	6	74	<1	<0.008	2.49	1060		827

782223

YNC10

SAMPLE	FROM	TO	interval	Al2O3	SiO2	TiO2	Fe2O3	MnO	CaO	K2O	MgO	P2O5	Na2O	SO3	LOI	AI
38728	284.60	286.50	1.9	13.97	66.40	0.48	4.31	1.38	1.44	4.26	0.80	0.14	0.17	0.47	5.78	76
38731	354.60	356.30	1.7	14.39	63.90	0.49	5.31	1.44	1.99	5.17	0.57	0.15	0.31	0.34	5.96	71
38738	389.80	390.20	0.4	16.77	62.70	0.56	4.40	0.44	2.33	5.79	0.62	0.14	0.65	0.07	5.51	68
38742	431.80	433.60	1.8	16.81	64.90	0.57	2.56	0.19	2.45	4.39	0.45	0.16	2.66	0.77	3.95	49
38747	488.90	489.20	0.3	13.87	70.60	0.36	3.39	0.11	1.75	3.42	1.20	0.06	1.43	0.11	3.49	59
38748	500.70	501.00	0.3	12.97	69.90	0.33	2.82	0.11	2.30	2.97	1.14	0.05	1.60	0.05	5.47	51
38749	514.70	515.00	0.3	13.78	69.50	0.36	2.83	0.08	2.10	3.66	1.07	0.05	1.22	0.06	5.08	59
38750	528.10	528.50	0.4	12.76	67.90	0.33	3.76	0.12	3.01	3.11	1.50	0.05	1.75	0.02	5.56	49

YNC10 (values in ppm)

SAMPLE	FROM	TO	interval	Rb	Sr	V	Nb	Y	Zr
38728	284.60	286.50	1.9	180	29	72	11	30	222
38731	354.60	356.30	1.7	177	60	50	11	38	238
38738	389.80	390.20	0.4	192	60	56	14	40	276
38742	431.80	433.60	1.8	162	75	51	13	35	283
38747	488.90	489.20	0.3	155	42	20	13	36	340
38748	500.70	501.00	0.3	124	47	14	11	38	307
38749	514.70	515.00	0.3	164	43	14	15	39	342
38750	528.10	528.50	0.4	140	80	16	14	38	305

782221

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOG

Hole ID
YNC10

PHYSICAL PROPERTIES / RECOVERIES

Depth	Rec %	Mag	SG	Formn	Lith	Depth	Rec %	Mag	SG	Formn	Lith	Depth	Rec %	Mag	SG	Formn	Lith
3.50	20	0.09		TG	gl	58.70	95	0.16		AA	bsh	127.70	55	0.19		TG	Lr
4.80	15	0.21		TG	Lr	61.00	91	0.05		AA	bsh	130.70	100	0.15		TG	Lr
6.50	35	0.31		TG	Lr	61.70	86	0.10		AA	bsh	133.70	100	3.54		TG	Lr
7.10	83	0.10		TG	Lr	64.70	97	0.24		AA	sst	136.70	100	1.39		TG	Lr
8.10	160	0.64		TG	Lr	67.70	77	0.15		AA	sst	137.80			2.75	TG	Lr
10.70	62	1.97		TG	Lr	70.70	100	0.07		AA	bsh	139.70	100	3.15		TG	Lr
13.70	97	2.26		TG	Lr	73.70	100	3.37		AA	sst	142.70	100	1.69		TG	Lr
16.70	97	1.96		TG	Lr	76.70	100	0.21		AA	sst	145.70	100	1.47		TG	Lr
19.70	100	5.96		TG	Lr	79.30			2.75	AA	sst	148.70	100	0.78		TG	Lr
21.20			2.66	TG	Lr	79.70	100	0.18		AA	sst	151.70	100	1.97		TG	Lr
22.70	97	4.13		TG	Lr	82.70	100	0.11		AA	sst	154.70	100	4.20		TG	Lr
25.20	100	0.92		TG	Lr	85.70	100	0.41		AA	sst	157.70	100	8.20		TG	Lr
27.50	100	1.80		TG	Lr	88.70	100	0.20		AA	sst	160.70	100	5.79		TG	Lr
28.70	83	0.90		TG	Lr	91.70	95	0.16		AA	sst	163.70	95	6.54		TG	Lr
29.90	100	1.10		TG	Lr	94.70	87	0.15		AA	sst	166.70	105	0.25		TG	Lr
30.80	100	2.35		TG	Lr	95.50	94	0.19		AA	sst	169.70	98	0.28		TG	Lr
31.70	83	0.10		TG	Lr	96.60	91	0.11		AA	sst	172.70	100	7.41		TG	Lr
34.70	100	0.02		TG	Lr	97.70	86	18.70		AA	sst	175.70	100	4.87		TG	Lr
37.70	53	0.30		AA	bx	100.70	100	5.80		AA	fz	178.70	100	5.97		TG	Lr
41.90	40	0.15		AA	bx	103.70	95	8.39		AA	fz	181.70	100	4.67		TG	Lr
43.70	67	0.11		AA	bx	106.70	97	1.65		TG	Lr	184.70	97	6.41		TG	Lr
44.80	105	0.12		AA	bx	109.70	100	0.09		TG	Lr	187.70	103	4.89		TG	Lr
46.70	89	0.11		AA	bx	112.70	97	0.16		TG	Lr	190.70	100	2.64		TG	Lr
49.70	70	0.05		AA	bx	115.70	95	1.47		TG	Lr	193.70	97	0.25		TG	Lr
51.90	73	0.14		AA	bsh	118.70	97	4.15		TG	Lr	195.20	100	0.13		TG	Lr
53.50	56	0.10		AA	bsh	121.70	100	8.03		TG	Lr	196.70	100	1.48		TG	Lr
54.40	78	0.00		AA	bsh	124.70	100	0.14		TG	Lr	199.70	92	0.57		TG	Lr
55.70	69	0.11		AA	bsh	126.60	121	1.41		TG	Lr	202.60	103	0.20		TG	Lr

782225

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOG

Hole ID
YNC10

PHYSICAL PROPERTIES / RECOVERIES

Depth	Rec %	Mag	SG	Formn	Lith
205.70	95	0.41		TG	Lr
208.70	102	0.31		TG	Lr
211.70	100	2.18		TG	Lr
214.70	100	0.13		TG	Lr
217.70	100	0.14		TG	Lr
220.70	100	0.60		TG	Lr
223.70	100	0.31		TG	Lr
226.70	100	0.23		TG	Lr
229.70	100	0.17		NCD	bx
232.70	100	0.31		NCD	bx
235.00	100	0.05		NCD	bx
235.70	100	0.10		NCD	bx
238.70	100	0.20		NCD	bx
241.70	100	0.14		NCD	bx
244.70	97	0.20		NCD	bx
247.70	100	0.17		NCD	Lr
249.80	100	0.13		NCD	bx
250.70	100	0.10		NCD	bx
251.90	92	0.13		NCD	bx
253.70	97	0.14		NCD	bx
256.70	100	0.23		NCD	bx
259.70	93	0.20		NCD	bx
260.20			2.74	NCD	bx
262.70	100	0.12		NCD	bx
265.70	88	0.12		NCD	bx
268.70	100	0.17		NCD	bx
271.70	93	0.19		NCD	bx
274.70	103	0.16		NCD	bx

Depth	Rec %	Mag	SG	Formn	Lith
277.70	100	0.07		NCD	a/z
280.70	97	0.24		NCD	a/z
283.70	100	0.71		NCD	a/z
286.70	100	0.35		NCD	a/z
289.70	100	0.20		NCD	a/z
292.70	100	0.29		NCD	a/z
294.70			2.80	NCD	a/z
295.70	100	0.20		NCD	a/z
298.70	100	0.19		NCD	a/z
300.10	93			NCD	a/z
301.70	81	0.37		NCD	a/z
304.70	100	0.36		NCD	a/z
307.70	93	0.10		NCD	a/z
310.70	97	0.18		NCD	a/z
313.70	103	0.14		NCD	a/z
316.70	100	0.12		NCD	Ld
319.70	100	0.07		NCD	bx
322.70	100	0.26		NCD	Ld
325.70	100	0.45		NCD	Ld
328.70	100	3.80		NCD	Ld
331.70	100	0.25		NCD	Ld
334.70	100	0.26		NCD	Ld
337.70	100	0.18		NCD	Ld
340.70	100	0.14		NCD	bx
343.70	100	0.33		NCD	bsh
346.70	100	0.23		NCD	Ld
349.70	100	0.12		NCD	Ld
352.70	100	0.22		NCD	Ld

Depth	Rec %	Mag	SG	Formn	Lith
355.70	100	0.16		NCD	Ld
358.70	100	0.26		NCD	Ld
361.70	100	0.16		NCD	Ld
364.70	100	0.15		NCD	Ld
367.70	100	0.17		NCD	Ld
370.70	100	0.20		NCD	Ld
373.60			2.73	NCD	Ld
373.70	100	0.14		NCD	Ld
376.70	100	0.13		NCD	Ld
379.70	100	0.12		NCD	Ld
382.70	95	0.14		NCD	Ld
384.10	121	0.29		NCD	Ld
385.70	91	0.11		NCD	Ld
388.70	100	0.25		NCD	Ld
391.70	100	0.20		NCD	Ld
394.70	100	0.15		NCD	Ld
397.50	104	0.17		NCD	Ld
400.60	100	0.29		NCD	Ld
403.70	97	0.12		NCD	Ld
406.70	100	0.16		NCD	Ld
409.70	100	0.20		NCD	Ld
412.70	100	0.13		NCD	Ld
415.70	100	0.12		NCD	Ld
418.70	100	0.12		NCD	Ld
421.70	100	0.18		NCD	Ld
424.20	96	0.09		NCD	Ld
427.20	100	0.07		NCD	Ld
427.70	100	0.10		NCD	Ld

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
YNC10

PHYSICAL PROPERTIES / RECOVERIES

Depth	Rec %	Mag	SG	Formn	Lith
430.70	100	0.08		NCD	Ld
433.70	100	0.09		NCD	Ld
436.70	100	0.09		NCD	Ld
439.70	100	0.09		NCD	Ld
442.70	100	0.16		NCD	Ld
445.70	100	0.12		NCD	Ld
448.70	100	0.13		NCD	slt
451.70	100	0.11		NCD	Vb
454.70	98	0.23		NCD	sst
457.70	100	0.16		NCD	Vi
460.70	100	0.15		NCD	Ld
463.70	100	0.10		NCD	slt
466.70	100	0.12		NCD	sst
469.70	100	0.15		NCD	Vb
472.70	100	0.14		NCD	bx
475.70	100	0.23		NCD	bx
478.70	100	0.24		NCF	bx
481.70	100	0.14		NCF	sst
484.70	100	0.09		NCF	pmf
487.70	100	0.10		NCF	pmf
490.70	100	0.07		NCF	pmf
493.70	100	0.12		NCF	pmf
496.70	100	0.12		NCF	pmf
499.70	100	0.20		NCF	pmf
502.70	100	0.27		NCF	sst
505.70	100	0.07		NCF	pmf
506.80			2.72	NCF	pmf
508.70	97	0.09		NCF	pmf
511.70	100	0.10		NCF	pmf
514.70	100	0.16		NCF	pmf
517.70	100	0.14		NCF	pmf
520.70	100	0.15		NCF	pmf
523.70	100	0.11		NCF	pmf
526.70	100	0.08		NCF	pmf
529.70	100	0.14		NCF	pmf

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
YHV2

DRILLING

Location	HENTY VALLEY
Project	YOLANDE
Prospect	HENTY VALLEY
Design By	P.M.Quayle
Logged By	D.Gardner
Relogged	
Commenced	28th February 1995
Completed	24th March 1995
Drilled By	Diamond Drilling Tasmania
Drill Rig	Longyear LM38

OBJECTIVE

To test for mineralization and alteration beneath outcropping massive pyrite within black shales, and coincident with an IP / Restivity anomaly. This outcrop occurs in the bed of the Henty River.

RESULT

The massive pyrite outcrop correlated with a pyritic fault seperating black mudstones from silicified siltstones. The IP anomaly correlated with black pyritic mudstones and/or black pyritic limestones.

COLLAR SURVEY (AMG)

AMG mN	5351400.0	Bearing	275.0
AMG mE	375435.0	Dip	-50.0
mN		Hole Length	163.5
mE		DH Survey Type	Eastman single :
RL	120.0		

DOWNHOLE SURVEY (AMG)

Depth	Bearing	Dip
0.0	-48.00	274.00
30.0	-47.00	274.50
60.0	-46.00	274.00
90.0	-45.00	273.00
120.0	-44.00	274.00
150.0	-43.00	273.50
163.0	-42.00	274.50

SIGNIFICANT CORE LOSS

From	To	Loss

POOR GROUND CONDITION ZONES

From	To	Condition
94	99.4	fault zone with pug.

HOLE SIZE

From	To	Size
0	84	HQ
84	163.5	NQ

HOLE CONDITIONS AFTER COMPLETION

Collar	
Steel Casing	HW shoe left cemented into top of hole.
PVC Casing	0 - 163.5m
Ground Water	
Wedge	
Drill Pad	

SIGNIFICANT INTERSECTIONS

From	To	Int	Cu	Pb	Zn	Ag	Au	Comments

782228

PASMINCO EXPLORATION

DIAMOND DRILL CORE LOG

HOLE No. YHV2

PROJECT: YOLANDE

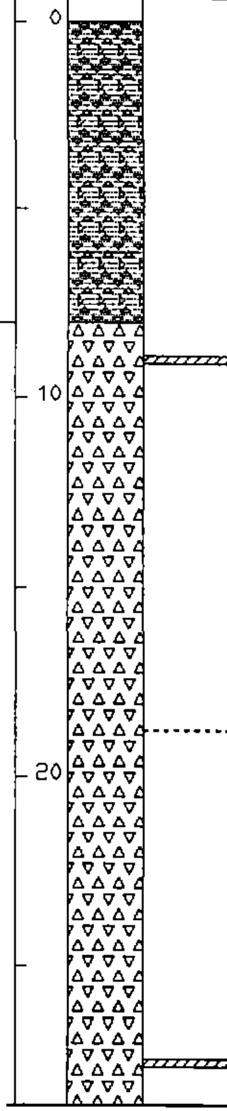
Vertical Scale 1 : 200

DESCRIPTION

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
0.00	8.00	FLUVIOGLACIAL DEPOSITS Abrupt contact			
8.00	44.00	BRECCIA , GREYWACKE , SILTSTONE WITH MINOR BLACK SHALE Green, Grey, Fine grained, Very coarse grained, Brecciated, Matrix supported, Polymict, Lithic, Breccia with clasts of mudstone (often laminated), and greywacke (with a high volcanic component) in a mudstone-greywacke matrix, a lot of the strung out textures suggest soft sediment deformation/injection of a partially lithified/cemented mudstone sequence. Fragments are s/rnd-s/ang and up to 10cm. Intervals of more massive greywacke occur at 15. -16.4m, and 32-33m CONTACT: Indistinct, Broken core		DISSEMINATED, pyrite on fractures, minor in veins, trace chalcopyrite py also common between bx fragments, as laminae, as blebs, 20.3m blebs of cpy, 24.6m vn with py aggregates to 5mm.	VEIN, Carbonate, There is strong carbonate (+/- quartz) veining throughout the hole, except where intensely silicified, veining is calcite or siderite FRACTURE, Shear, Chlorite, Fractures at 10-40 to LCA with slickensides and chlorite VEIN, A 60, Carbonate,

GRAPHIC

Depth | Lith | Structures



5 cm

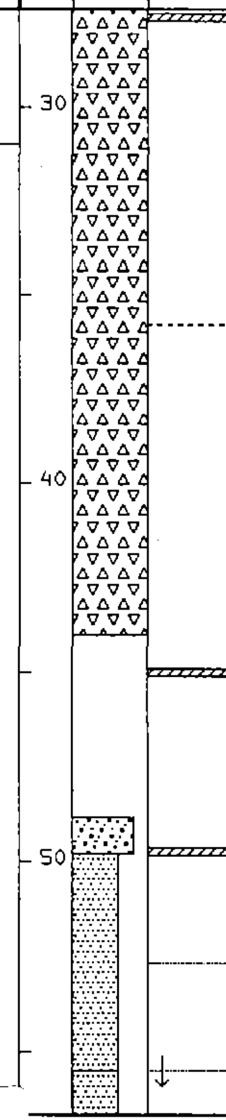
DESCRIPTION

From	To	LITHOLOGY	ALTERATION
44.00	48.80	INTERMEDIATE VOLCANICLASTIC Dark, Grey, Medium grained, Massive, Porphyritic, Feldspar phyric, Either a tuff or a very immature epiclastic, feldspar crystals to 1mm, some auto brecciation CONTACT: Conformable abrupt, at 50 degrees to Lower 30cm are brecciated suggesting younging downhole	
48.80	49.80	GREYWACKE Grey, Green, Medium grained, Massive sandy greywacke, with patches of silt - mud grade material	Moderately Carbonatised, Replacement of feldspars?
49.80	55.50	SILTSTONE AND BRECCIA WITH MINOR GREYWACKE WITH MINOR BLACK SHALE Green, Black, Fine grained, Laminated, Brecciated, Micro faulting, and soft sediment disruption and brecciation of bedding leads to blocks of laminated mudstone in a mudstone matrix CONTACT: Conformable abrupt, Micro faulted contact? very small flames indicate younging downhole?	
55.50	58.50	SILTSTONE AND GREYWACKE AND BRECCIA Green, Black, Fine grained, Medium grained, Brecciated, Matrix supported, Polymict, Fragments of mudstone and greywacke (volcanic) with injection/disruption of soft mudstone in a greywacke matrix CONTACT: Gradational,	Slightly Carbonatised, Fine carbonate in matrix
		GREYWACKE Black, Green, Medium grained, Massive, Greywacke (volcanic?) with minor laminate mudstone inclusions, some weak So 70 to LCA at bottom of interval	

MINERALISATION

DISSEMINATED, very minor pyrite 39.7m 5cm strong py in vn, 41-42.5m mnr py in blebs and in clasts.

GRAPHIC



STRUCTURES

chlorite

VEIN, A 60, Carbonate, Quartz. Tension gashes?

FRACTURE, Shear, Chlorite, Fractures at 10-40 to LCA with slickensides and chlorite

VEIN, A 40, Carbonate,

VEIN, A 10, Carbonate,

PRIMARY FABRIC, So confused, changing rapidly => folding, So is often subparallel to LCA

BEDDING, Younging

5 cm

PASMINCO EXPLORATION

DIAMOND DRILL CORE LOG

HOLE No. YHV2

PROJECT: YOLANDE

Vertical Scale 1 : 200

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
55.50	58.50	Greywacke (volcanic?) with minor laminate mudstone inclusions, some weak So 70 to LCA at bottom of interval CONTACT: Faulted, at 35 degrees to			subparallel to LCA BEDDING, Younging downhole,
58.50	59.80	GREYWACKE AND SILTSTONE AND BRECCIA Green, Grey, Fine grained, Medium grained, Brecciated, Matrix supported, Polymict, Soft sediment deformation/injection/brecciation of mudstone and greywacke CONTACT: Gradational,			VEIN, A 35, Shear, Carbonate, Quartz. Carbonate veining along a shear? with slickensides
59.80	64.30	BRECCIA AND GREYWACKE AND SILTSTONE WITH MINOR BLACK SHALE Green, Black, Fine grained, Medium grained, Brecciated, Clast supported, Polymict, As before with much greater proportion of clasts of lithified rock (fragments to 20cm) CONTACT: Gradational,		DISSEMINATED, abundant pyrite on fractures, in veins, pyrrhotite on fractures, minor in veins,	
64.30	65.80	GREYWACKE AND SILTSTONE WITH MINOR BLACK SHALE WITH MINOR BRECCIA Green, Black, Fine grained, Medium grained, Brecciated, As before but less brecciated more micro-faulted/autobrecciated, discontinuous So below 67m at high angle to LCA, below 65.8m fragments are more rounded with some 20cm beds/blocks of greywacke CONTACT: Gradational,	Intensely Carbonatised, Flooding	DISSEMINATED, very minor pyrite on fractures, in veins,	
65.80	69.40			DISSEMINATED, abundant pyrite on fractures, in veins, minor pyrrhotite	
				VEIN, 2% pyrrhotite on fractures, as stringers, 2% pyrite on fractures, as stringers, 2-5% po & py in veins, bands, blebs and in breccia fill.	
69.40	74.00	GREYWACKE AND SILTSTONE WITH MINOR BLACK SHALE Green, Black, Fine grained, Medium grained, Brecciated, As before with a distinct So at 70-80 to LCA disrupted by intense micro faulting, generally 2cm thick, some coarser greywacke up to 20cm beds/blocks which have a very high immature volcanic component (glass shards? crystal fragments? pumice?), 71.3m 10cm bed quartz & feldspar crystal rich tuff/epiclastic in silt matrix, fines uphole, flaming in muds suggests younging uphole?, 71.6m 40cm bx bed, 72.2m 15cm & 72.5m 5cm crystal rich greywacke/tuff beds/blocks, at 73.5m the bedding is more disrupted CONTACT: Faulted,		DISSEMINATED, abundant pyrite on fractures, in veins, minor pyrrhotite	
				BANDED, 20% pyrrhotite	FAULT, Younging uphole, So disrupted by micro faulting, some flaming
74.00	79.40			DISSEMINATED, abundant pyrite on fractures, in veins, minor pyrrhotite	
				VEIN, 5% pyrrhotite on fractures, as stringers, 2% pyrite on fractures, as stringers, 5-10% po & py in veins, bands, disseminated in breccia fill, rare po clasts?, blebs of cp at 74.5 & 75m.	FAULT, Shear, Pug. Breccia. Fault Zone with numerous pug zones and sheared and brecciated rock, strong carbonate veining
79.40	88.60	DEFORMED ZONE AND BLACK SHALE AND GREYWACKE Black, Green, Fine grained, Very coarse grained, Brecciated, Sheared, Polymict, Fault Zone strongly disrupted and brecciated rocks, with numerous puggy and graphitic faults, with intense carbonate veining, 74.05m 30cm crm-wh massive rock similar to 80m; 77.2m 70cm crystal rich greywacke/tuff CONTACT: Faulted,	Moderately Silicified,	DISSEMINATED, abundant pyrite on fractures, in veins, minor pyrrhotite	
				VEIN, 20% pyrrhotite in veins, as stringers, and bx fill.	
				DISSEMINATED, trace pyrite disseminated.	
		SILTSTONE Cream, Green, Fine grained, Massive, Brecciated Mudstone, strongly bx/fractured with silica	Intensely Silicified,		

5 cm

HOLE No. YHV2

PROJECT: YOLANDE

From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	STRUCTURES
		SILTSTONE Cream, Green, Fine grained, Massive, Brecciated, Mudstone, strongly bx/fractured with silica and carbonate fill CONTACT: Conformable abrupt, at 30 degrees to Intrusive contact	Intensely Silicified, Slightly Silicified,			VEIN, Carbonate, Strong siderite veining
88.60	90.30	INTERMEDIATE LAVA Buff, Fine grained, Porphyritic, Lava/dyke? strongly porphyritic at both contacts but with fine sections of 10cm at 88.65m, and 88.85m (possible flow contact at 88.85m => younging downhole?), sericitised crystals after feldspar and hornblende? to 1cm, where fine there are needle like chlorite (phenocrysts?glass?) CONTACT: Conformable abrupt, at 10 degrees to Intrusive contact	Moderately Sericitised,		90	PRIMARY FABRIC, A 30, Weak flow fabric?
90.30	100.00	SILTSTONE Grey, White, Fine grained, Massive, Mudstone, intensely silicified, v weak banding So? at 80-90 to LCA CONTACT: Indistinct, Fault?	Intensely Silicified,	DISSEMINATED, minor pyrite disseminated.		FAULT, Fault? strongly cleaved
100.00	119.20	LIMESTONE GRADING WITH SANDSTONE GRADING WITH SILTSTONE Black, Yellow, Medium grained, Fine grained, Massive, Stylolites, Alternating calcite (black) and siderite? (yellow Fe stain) rich intervals of 2-3m, the carbonate has some recrystallised? textures. The siderite? rich bands tend to be coarser with a higher lithic content, some fine laminations, and stylolites at 50-70 to LCA CONTACT: Conformable abrupt, at 50 degrees to	Carbonatised. Primary or alteration? bands of calcite and siderite rich rock	DISSEMINATED, 10% pyrite disseminated, v fine diss py up to 10%. DISSEMINATED, 5% pyrite disseminated, fine diss py 2-5%.	100 110	VEIN, Carbonate, Strong siderite and calcite veining FAULT, Missing core around 103m => possible faulting, or cavities in carbonate rocks VEIN, Carbonate, Strong siderite and calcite veining PRIMARY FABRIC, A 60, Shear, Shearing and

5 cm

PASMINCO EXPLORATION

DIAMOND DRILL CORE LOG

Vertical Scale 1 : 200

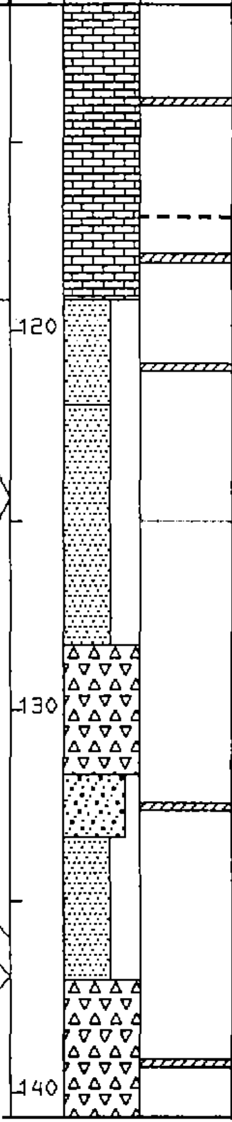
PROJECT: YOLANDE

HOLE No. YHV2

DESCRIPTION

From	To	LITHOLOGY	ALTERATION	MINERALISATION
119.20	122.00	SILTSTONE Cream, Fine grained, Massive, Mudstone - siltstone strongly disrupted layering CONTACT: Indistinct,	Moderately Silicified.	VEIN, minor pyrite in veins, py in siderite veins.
122.00	128.30	SILTSTONE Cream, Green, Fine grained, Laminated, Mudtone - siltstone,strongly disrupted/folded/micro faulted bedding, inclusions of lower unit towards the bottom of this interval CONTACT: Gradational,		VEIN, abundant pyrite in veins, py in siderite veins. VEIN, minor pyrite in veins, py in siderite veins.
128.30	131.70	BRECCIA CONTAINING CLASTS OF SANDSTONE AND SILTSTONE Brown, Grey, Medium grained, Fine grained, Brecciated, Laminated, Lithic, Fragments of finely laminated (1mm) brn lithic sst in a gn-gy mudstone matrix, a few more massive sections of sst, the lower 30cm of the interval is gn-gy mudstone CONTACT: Indistinct, Sharp, faulted?		
131.70	133.30	GREYWACKE Brown, Medium grained, Massive, Lithic, Probable high volcanic component CONTACT: Conformable abrupt, Flaming of lower unit => younging uphole		
133.30	137.10	SILTSTONE AND BRECCIA Cream, Green, Fine grained, Coarse grained, Brecciated, Disrupted/folded/bx, So 30-60 to LCA CONTACT: Conformable abrupt, at 30 degrees to		VEIN, abundant pyrite in veins. chalcopyrite blebs.
137.10	141.50	BRECCIA CONTAINING CLASTS OF SILTSTONE Grey, Green, Fine grained, Very coarse grained, Brecciated, Matrix supported, Ang-s/rnd mudstone fragments in a mudstone matrix, jigsaw fit in many places => auto brecciation CONTACT: Gradational,	Highly Silicified, Weak at top of interval becoming strong by 137.8	DISSEMINATED, pyrite in veins, trace on fractures.

GRAPHIC



STRUCTURES

- PRIMARY FABRIC, A 60, Shear, Shearing and bedding at 50-70 tp LCA
- VEIN, Carbonate, Strong siderite and calcite veining
- FAULT, A 20, Shear, Graphitic shear
- VEIN, Carbonate, Strong siderite and calcite veining
- VEIN, Carbonate, Quartz, Strong - intense siderite/calcite veining with some quartz
- PRIMARY FABRIC, So changes rapidly due to micro faulting, folding, and soft sediment disruption, strong calcite/siderite +/- quartz veining
- VEIN, Carbonate, Quartz, Strong - intense siderite/calcite veining with some quartz

5 cm

PASMINCO EXPLORATION

DIAMOND DRILL CORE LOG

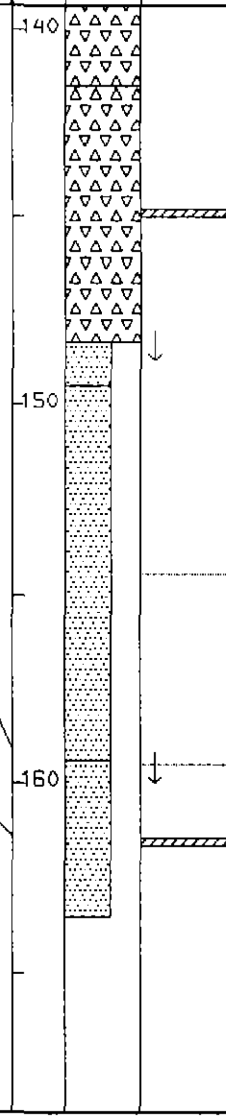
Vertical Scale 1 : 200

HOLE No. YHV2

PROJECT: YOLANDE

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
		CONTACT: Gradational,			VEIN, Carbonate, Strong siderite veining
141.50	148.30	BRECCIA CONTAINING CLASTS OF SILTSTONE Grey, Yellow, Fine grained, Very coarse grained, Brecciated, Matrix supported, Ang-s/rnd gy mudstone fragments in a siderite? (yellow carbonate) matrix, intense fracturing or auto brecciation CONTACT: Indistinct, Broken core, faulted	Intensely Silicified.		
148.30	149.50	SILTSTONE WITH MINOR BRECCIA Cream, Green, Fine grained, Very coarse grained, Laminated, Brecciated, Polymict, Mudstone with strongly disrupted bedding, some fragments of silicified gy mudstone (similar to uphole units) => younging downhole? CONTACT: Gradational,	Slightly Silicified.		VEIN, Quartz, Strong quartz veining
149.50	159.40	SILTSTONE Red, Green, Fine grained, Laminated, Disrupted/folded/micro faulted So generally 60-70 to LCA, minor brecciation, bottom 30cm are green mudstone CONTACT: Conformable abrupt, at 50 degrees to	Slightly Sericitised.	VEIN, 40% pyrrhotite in veins, pyrite trace chalcopyrite massive po vein with quartz, py, and cp.	Younging downhole. PRIMARY FABRIC, Disrupted, folded/faulted So generally 60-70 to LCA, orientation gives strike of 030-350/40-60SE
159.40	163.50	SILTSTONE CHERT WITH MINOR CONGLOMERATE Pink, Red, Fine grained, Upper 20cm is conglomerate rapidly grading to silt/mud/chert, some possibly coarser textures are obscured by silicification	Intensely Silicified.	DISSEMINATED, 2% pyrite on fractures.	PRIMARY FABRIC, Grading downhole. VEIN, Quartz, Carbonate.

GRAPHIC



5 cm

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
YHV2

ASSAY RESULTS

From	To	Samp	Int	Cu	Pb	Zn	Ag	Au	Fe	Ba	As	Mn
17.00	19.00	40973	2.0	85	31	82	<1	<0.008	9.47		23	736
20.00	22.00	40974	2.0	95	3	90	<1	<0.008	9.71		3	835
23.50	25.50	40975	2.0	81	12	89	<1	<0.008	9.24		18	737
29.50	31.50	40976	2.0	74	<3	99	<1	<0.008	8.27		6	1225
44.00	46.00	40977	2.0	31	9	141	<1	<0.008	11.30		9	1789
64.60	66.50	40978	1.9	85	24	108	<1	<0.008	8.53		20	937
66.50	68.50	40979	2.0	77	33	105	<1	<0.008	8.60		21	787
68.50	70.50	40980	2.0	85	12	98	<1	<0.008	9.13		18	966
70.50	71.50	40981	1.0	83	48	52	<1	<0.008	5.98		32	1014
71.50	72.50	40982	1.0	59	52	40	<1	<0.008	5.63		37	2030
72.50	74.50	40983	2.0	60	24	64	<1	<0.008	8.16		40	1130
74.50	75.50	40984	1.0	775	103	51	<1	<0.008	7.24		43	3030
75.50	76.50	40985	1.0	371	136	53	3	<0.008	7.57		126	2607
76.50	77.50	40986	1.0	62	19	62	<1	<0.008	5.87		44	1009
77.50	78.50	40987	1.0	110	9	71	<1	<0.008	6.20		37	772
78.50	79.40	40988	0.9	73	61	62	<1	<0.008	8.17		76	1999
100.00	102.00	40989	2.0	29	42	33	<1	<0.008	3.34		32	2850
102.00	103.00	40990	1.0	16	38	32	<1	<0.008	6.67		15	4154
103.00	106.00	40991	3.0	15	36	32	<1	<0.008	8.92		12	4390
106.00	108.00	40992	2.0	19	28	32	<1	<0.008	8.38		22	3713
108.00	109.00	40993	1.0	18	130	30	<1	<0.008	6.80		15	3600
109.00	111.00	40994	2.0	18	39	17	<1	<0.008	2.57		18	1272
111.00	113.30	40995	2.3	30	171	27	<1	<0.008	8.87		17	3495
113.30	115.00	40996	1.7	24	78	28	<1	<0.008	2.76		18	794
115.00	117.00	40997	2.0	23	53	17	<1	<0.008	2.33		14	789
117.00	119.20	40998	2.2	18	17	30	<1	<0.008	8.17		12	3669
124.00	126.00	40999	2.0	33	6	45	<1	<0.008	6.50		6	948
135.10	137.10	41000	2.0	42	8	37	<1	<0.008	4.11		3	1191

From	To	Samp	Int	Cu	Pb	Zn	Ag	Au	Fe	Ba	As	Mn
144.80	146.80	40401	2.0	10	10	17	<1	<0.008	2.78		14	1818
158.40	159.40	40402	1.0	427	20	97	<1	<0.008	7.89		6	430
160.60	161.60	40403	1.0	6	<3	11	<1	<0.008	1.06		6	330

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
YHV2

PHYSICAL PROPERTIES / RECOVERIES

Depth	Rec %	Mag	SG	Formn	Lith
5.40	57	0.35		HFW	fgl
8.40	33	0.31		HFW	bx
11.00	100	0.54		HFW	bx
13.20	73	0.41		HFW	bx
14.40	108	0.50		HFW	bx
15.90	107	0.11		HFW	bx
17.40	100	0.24		HFW	bx
18.90	100	0.39		HFW	bx
20.40	120	0.23		HFW	bx
23.00	92	0.19		HFW	bx
24.60	100	0.21		HFW	bx
25.70	91	0.35		HFW	bx
26.90	75	0.21		HFW	bx
27.90	70	0.23		HFW	bx
29.40	67	0.32		HFW	bx
32.00	100	0.34		HFW	bx
33.50	107	0.28		HFW	bx
34.70	92	0.52		HFW	bx
38.40	92	0.42		HFW	bx
39.90	113	0.20		HFW	bx
41.00	91	0.17		HFW	bx
42.90	95	0.43		HFW	bx
44.20	85	0.46		HFW	Vi
47.20	100	0.31		HFW	Vi
48.80	100	0.43		HFW	w
50.40	100	0.31		HFW	slt
53.40	53	0.43		HFW	slt
56.10	100	0.24		HFW	slt

Depth	Rec %	Mag	SG	Formn	Lith
59.00	93	0.35		HFW	w
60.10	109	0.41		HFW	w
62.40	96	0.30		HFW	w
65.40	100	0.31		HFW	w
68.40	100	0.50		HFW	w
71.00	100	0.32		HFW	w
74.10	100	0.49		HFW	d/z
77.20	87	0.07		HFW	d/z
78.80	106	0.12		HFW	d/z
79.90	82	0.26		HFW	slt
80.40	100	0.70		HFW	slt
82.40	100	0.24		HFW	slt
83.40	100	0.03		HFW	slt
84.00	100	0.05		HFW	slt
84.80	100	0.05		HFW	slt
87.80	100	0.12		HFW	slt
90.80	100	0.01		HFW	slt
93.80	100	0.17		HFW	slt
96.80	100	0.05		HFW	slt
99.80	100	0.00		HFW	slt
102.80	100	0.38		HFW	lst
105.80	37	0.00		HFW	lst
108.80	100	0.31		HFW	lst
111.80	100	0.33		HFW	lst
114.80	100	0.10		HFW	lst
117.80	100	0.23		HFW	lst
120.80	100	0.08		HFW	slt
123.80	100	0.49		HFW	slt

Depth	Rec %	Mag	SG	Formn	Lith
126.80	100	0.12		HFW	slt
129.80	100	0.36		HFW	bx
132.80	100	0.12		HFW	w
135.80	100	0.17		HFW	slt
138.80	100	0.00		HFW	bx
141.80	100	0.27		HFW	bx
144.80	100	0.05		HFW	bx
147.80	100	0.05		HFW	bx
150.80	100	0.37		HFW	slt
153.80	100	0.44		HFW	slt
156.80	100	0.21		HFW	slt
159.80	100	0.07		HFW	slt
162.80	100	0.15		HFW	slt
163.50	86	0.07		HFW	slt

Appendix 5

Selected Lithogeochemical Results

782238

YOLANDE EL 11/85

Samples sorted on T:Zr

SAMPLE	FCODE	LCODE	Ti:Zr	SiO2	Al2O3	TiO2	P2O5	MnO	CaO	K2O	MgO	Al
31495	CVC	Vslt	4.8	77.3	10.86	0.18	0.03	0.07	1.19	2.9	1.03	69
75865	TG	Lr	4.9	69.18	16.81	0.18		0.01	0.25	2.52	0.3	25
75851	TG	Lr	5	78.56	11.89	0.18	0.06	0	0.03	2.69	0.13	39
37907	TG	Lr	5	76.1	10.91	0.18	0.01	0.02	0.02	5.08	0.56	78
75850	TG	Lr	5.4	78.27	11.18	0.18	0.01	0.02	0.22	3.58	0.17	48
75849	TG	Lr	5.5	77.77	11.69	0.19	0.08	0.02	0.07	1.98	0.46	34
75867	TG	Lr	5.6	88.11	5.94	0.1		0.03	0.13	1.73	0.32	51
401091	TG	Sbx	5.8	71.09	14.68	0.23	0.01	0.03	0.25	1.5	0.91	22
37219	TG	Lr	5.8	73.8	15.38	0.13	0.01	0.03	0.31	0.33	0.12	5
39339	NCF	pmf	6.2	71	14	0.36	0.06	0.05	1.64	2.78	1.59	55
39338	NCF	pmf	6.2	71.6	13.2	0.36	0.05	0.06	1.37	2.56	1.74	59
38749	NCF	pmf	6.3	69.5	13.78	0.36	0.05	0.08	2.1	3.66	1.07	59
38747	NCF	pmf	6.4	70.6	13.87	0.36	0.06	0.11	1.75	3.42	1.2	59
38748	NCF	pmf	6.4	69.9	12.97	0.33	0.05	0.11	2.3	2.97	1.14	51
38750	NCF	pmf	6.5	67.9	12.76	0.33	0.05	0.12	3.01	3.11	1.5	49
75866	TG	Lr	6.7	87.68	6.18	0.17		0.02	0.05	0.85	0.36	28
31488	CVC	Vpm	6.9	74.8	13.34	0.32	0.05	0.04	0.49	0.82	0.5	17
37187	NCF	Vpm	6.9	70	12.94	0.32	0.05	0.08	2.91	1.66	0.71	21
37917	?	?	6.9	76.8	12.44	0.28	0.03	0.01	0.01	3.12	0.51	67
75847	YRS		6.9	69.92	15.01	0.39		0.01	0.01	3.95	2.26	94
35099	NCF	Va	7	71.3	14.89	0.44	0.06	0.05	0.86	3.41	1.21	63
37153	NCF	Vpm	7.1	75.9	13.77	0.3	0.02	0.01	0.02	2.23	0.84	58
37192	NCF	Vpm	7.1	70.6	13.29	0.35	0.07	0.06	0.66	2.89	1.15	42
37150	CVC	?	7.2	77.5	13.04	0.19	0.03	0.01	0.03	3.91	0.66	79
37146	NCS	Vpm	7.5	70	11.93	0.32	0.13	0.07	4.94	0.2	0.39	5
37151	CVC	?	7.6	77.9	12.34	0.2	0.02	<0.01	0.02	3.64	0.61	72
32149	NCF	Vpm	7.6	75.2	13.47	0.38	0.03	0.01	0.04	3.88	0.77	83
35010	NCF	Vpm	7.7	74.8	13.77	0.32	0.02	0.02	0.02	2.09	0.84	61
37155	CVC	Vpm	7.9	74.3	11.35	0.24	0.04	0.01	0.01	3.95	0.65	93
401097	TG	Sbx	8.1	74.51	12.78	0.27	0.01	0.03	0.07	3.3	0.82	51
401100	OC	Msht	8.3	86.08	6.73	0.36	0.01	0.01	0.07	1.77	0.97	88
401099	OC	Msht	8.3	81.83	9.14	0.43	0.01	0.01	0.01	2.63	1.04	91
75845	YRS		8.4	77.69	11.6	0.18	0.05	0.01	0.05	2.01	0.29	43
35057	NCF	Vpm	8.5	64.6	15.99	0.41	0.08	0.11	2.5	2.94	1.06	42
37152	CVC	?	8.6	74.2	14.27	0.43	0.04	0.02	0.04	3.85	0.97	84
75836	?	?	8.7	63.75	10.74	0.29	0.2	0.09	9.56	0.27	0.34	4
37916	?	?	8.8	84.3	7.19	0.16	0.04	0.05	0.33	1.23	0.45	81
401098	OC	Scong	8.9	91.25	3.94	0.23	0.01	0.01	0.01	1.09	0.51	85
35043	CVC	Scong	9.2	74.9	10.9	0.2	0.04	0.14	1.39	1.93	0.95	41
401089	AA	Vsst	9.2	75.08	13.44	0.2	0.05	0.05	0.14	1.59	0.99	31
37145	NCS	Vpm	9.6	79.1	12.33	0.33	0.08	0.01	0.42	0.73	0.14	14
31492	NCS	Vsst	10	72	13.2	0.49	0.06	0.07	0.97	0.33	1.15	18
37144	NCS	?	10.1	74.6	11.57	0.33	0.08	0.04	3.05	2.66	0.35	37
37156	CVC	Vpm	10.5	79.7	10.1	0.36	0.06	0.03	0.1	1.99	0.47	53
401095	TG	Sw	10.8	67.9	16.06	0.56	0.03	0.03	0.27	0.74	0.93	15
75876	NCS	?	11.1	79.46	12.28	0.34	0.08	0	0.4	0.63	0	10
35077	CVC	Ld	11.3	74.7	7.4	0.19	0.06	0.25	0.07	0.67	0.9	91
401080	YRS	Vsst	11.4	71.81	14.61	0.55	0.1	0.11	0.15	4.25	0.72	94
37915	?	?	11.5	75	11.36	0.3	0.08	0.07	1.19	3.17	0.97	76
75872	NCS	Ld	11.5	66.74	10.27	0.27	0.1	0.12	7.5	0.86	0.43	10
37914	?	?	11.8	69	14.83	0.51	0.14	0.04	0.19	4.22	0.87	73
37939			11.8	73.1	13.26	0.43	0.12	0.02	0.27	4.2	0.75	65

YOLANDE EL 11/85

Samples sorted on T:Zr

SAMPLE	FCODE	LCODE	Ti:Zr	SiO2	Al2O3	TiO2	P2O5	MnO	CaO	K2O	MgO	AI
39822	NCD	Ld	11.9	66.3	14.4	0.49	0.14	0.07	3.25	3.33	0.72	41
37919	?	?	12	71.3	15.93	0.56	0.08	0.01	0.08	4.92	0.66	96
37918	NCD	?	12	69	14.98	0.52	0.14	0.02	0.1	4.11	0.82	73
38742	NCD	Ld	12.1	64.9	16.81	0.57	0.16	0.19	2.45	4.39	0.45	49
38738	NCD	Ld	12.2	62.7	16.77	0.56	0.14	0.44	2.33	5.79	0.62	68
38731	NCD	Ld	12.4	63.9	14.39	0.49	0.15	1.44	1.99	5.17	0.57	71
75875	NCS	Ld	12.4	76.15	11.42	0.36	0.05	0.05	0.28	0.9	0.82	30
37983	NCD	Ld	12.5	63	13.9	0.47	0.14	0.13	4.29	2.99	1.33	40
37978	NCD	Ld	12.5	65.6	14.8	0.5	0.15	0.09	1.55	3.67	1.9	62
31494	CVC	Ld	12.6	69.3	15.5	0.51	0.14	0.03	0.14	3.18	1.1	61
37981	NCD	Ld	12.6	66.7	13.8	0.46	0.13	0.1	2.98	2.74	1.24	38
39818	AA	Ln	12.6	55.4	11.5	0.41	0.3	0.13	11.3	0.99	1.69	15
37468	NCD	Ld	12.6	63.6	14.79	0.47	0.13	0.11	3.58	1.94	0.8	25
40433	NCD	Ld	12.7	68.3	13.2	0.46	0.11	0.03	1.35	2.13	0.41	31
39819	AA	Ln	12.7	58.1	13.3	0.52	0.4	0.1	6.24	2.83	2.74	37
35009	CVC	Ld	12.8	70	14.96	0.52	0.1	0.03	0.1	3.52	1.09	75
35087	NCD	Ld	12.9	65.8	13.39	0.45	0.13	0.35	2.49	2.66	0.8	44
216481.2	NCD	Ld	12.9	70.4	15.01	0.56	0.14	0.02	0.16	3.77	0.74	69
37224	NCD	Ld	12.9	66.4	12.98	0.44	0.12	0.29	1.38	2.23	0.87	44
38728	NCD	a/z	13	66.4	13.97	0.48	0.14	1.38	1.44	4.26	0.8	76
37222	NCD	Ld	13	64.8	16.4	0.56	0.16	0.12	2.27	2.08	1	30
35041	CVC	Ld	13	66.5	16.62	0.58	0.16	0.08	0.35	1.85	1.81	39
35011	CVC	Ld	13.1	72.4	15.91	0.56	0.09	0.02	0.06	4.79	0.5	98
39645	NCD	Ld	13.1	66.7	14.4	0.5	0.14	0.06	3.21	3.65	0.86	44
75848	NCD	Ld	13.2	67.96	14.91	0.32	0.2	0.06	0.44	3.44	1.33	44
37160	NCF	Vpm	13.2	71.3	13.37	0.72	0.05	0.08	1.96	3.02	1.24	54
35076	CVC	Ld	13.2	70.7	7.55	0.26	0.07	0.88	0.05	0.23	1.94	96
37223	NCD	Ld	13.2	57.4	16.2	0.58	0.13	2.61	0.62	7.38	0.64	92
37221	AA	Ld	13.3	66.7	13.33	0.47	0.13	0.2	4.9	4.14	0.45	47
75873	NCS	Ld	13.4	69.16	14.26	0.47	0.13	0.08	1.02	1.24	1.08	29
31490	NCS	Ld	13.5	69.7	14.6	0.51	0.13	0.06	1.1	2.41	0.77	46
37541	NCD	Ld	13.5	65.1	20.01	0.72	0.05	0.04	0.02	7.46	0.7	98
75853	CVC	Ld	13.5	65.36	14.49	0.5	0.13	0.08	3.13	2.32	0.77	31
35037	CVC	Ld	13.6	73.1	12.16	0.41	0.08	0.02	0.08	2.72	0.51	57
401081	YRS	Vsst	13.6	67.55	13.77	0.68	0.15	0.01	0.15	3.31	2.48	87
75874	NCF	Vpm	13.7	75.32	12.89	0.46	0.13	0.03	0.58	1.55	0.41	26
35042	CVC	Scong	13.7	70.3	11.83	0.39	0.14	0.02	0.19	2.48	0.58	66
37197	NCF	Vpm	13.7	69.6	15.06	0.52	0.1	0.01	0.09	3.58	0.93	71
401082	NCD	Ld	13.8	61.63	16.57	0.55	0.37	0.07	<0.01	2.27	4.11	88
401092	TG	Vsst	13.8	62.31	16.32	0.62	0.05	0.1	1.41	1.27	2.25	27
37178	NCD	Ld	14	70.8	14.7	0.51	0.14	0.01	0.14	3.51	0.73	60
35084	AA	Ld	14	66.3	14.67	0.52	0.15	0.3	0.26	3.75	1.13	92
35039	CVC	Ld	14.1	69.7	14.39	0.52	0.14	0.03	0.18	5.18	0.94	79
37938			14.2	60.2	13.07	0.41	0.16	0.11	5.71	2.45	1.81	33
31500	CVC	Ld	14.7	72.1	12.89	0.43	0.04	0.01	0.08	1.82	0.37	34
401096	TG	Vsst	14.8	71.37	13.52	0.64	0.02	0.05	0.05	5.76	1.11	93
37905	NCD	Ld	15.2	66.5	13.74	0.48	0.13	0.07	2.01	3.8	0.83	55
75844	YRS		15.2	67.04	14.1	0.61	0.15	0.08	0.37	4.57	2.62	69
31499	CVC	?	15.6	67.3	15.15	0.56	0.14	0.05	0.23	2.71	1.73	65
37906	NCF	Vpm	15.6	71.6	13.36	0.34	0.05	0.05	1.03	2.6	2.03	62
37138	NCS	?	15.7	74.7	13	0.54	0.14	0.03	0.24	2.47	0.48	51
35012	CVC	Ld	15.8	73.9	15.03	0.54	0.11	0.04	0.1	4.47	0.47	97

782240

YOLANDE EL 11/85

Samples sorted on T:Zr

SAMPLE	FCODE	LCODE	Ti:Zr	SiO2	Al2O3	TiO2	P2O5	MnO	CaO	K2O	MgO	AI
401094	TG	Sbx	16	67.98	13.02	0.56	0.01	0.07	0.1	1.54	2.45	44
37904	NCF	Vpm	16.1	69	13.69	0.33	0.05	0.07	1.89	3.46	1.68	62
31496	CVC	Sslt	16.3	69.5	11.96	0.47	0.08	0.07	1.86	2.94	1.59	53
37980	AA	Ln	17.3	56.4	13.9	0.46	0.15	0.11	7.09	2.7	2.8	37
401084	AA	Ln	18	60.34	13.56	0.36	0.31	0.1	6.67	1.87	3.99	42
75869	AA	Ln	18	58.71	16.77	0.46	0.28	0.08	3.29	1.08	3.75	32
31491	AA	Ln	18.4	62.6	15.1	0.42	0.18	0.1	2.51	2.45	3.36	45
75870	AA	Ln	18.5	60.02	15.98	0.53	0.23	0.13	2.14	1.84	3.76	39
401088	AA	Sw	18.8	63.65	17.7	0.5	0.09	0.02	0.23	1.69	1.41	48
120801	AA	Ln	18.8	59.4	14	0.5	0.32	0.16	4.46	0.78	4.16	40
75868	AA	Ln	18.8	56.96	17.25	0.6	0.54	0.08	3.43	2.48	4.28	45
75852	AA	Ln	18.8	62.57	15.33	0.41	0.21	0.08	2.3	2.64	2.94	42
75828	AA	Ln	19.4	61.16	15.04	0.42	0.2	0.11	3.54	2.99	3.6	47
401083	AA	Ln	19.6	62.9	17.45	0.62	0.34	0.07	0.07	2.16	4.5	95
31484	CVC	Ln	20.6	70.4	9.48	0.62	0.14	0.06	0.01	2.45	0.4	99
120802	AA	Ln	20.7	59.9	15.6	0.57	0.14	0.1	1.6	2.4	3.44	66
31483	CVC	Ln	21.2	64.1	15.99	0.51	0.12	0.06	0.03	3.78	2.28	85
401087	AA	Ln	21.5	60.88	14.35	0.52	0.2	0.12	3.02	2.25	3.56	40
401085	AA	Ln	21.8	60.54	13.56	0.4	0.23	0.1	6.86	1.83	4.46	40
401093	TG	Vsst	21.9	63.11	15.73	0.73	0.03	0.15	0.81	1.75	2.18	32
37977	AA	Ln	21.9	55.3	15.7	0.49	0.19	0.13	5.4	2.25	2.88	38
37220	AA	Ln	22.2	53.1	17.07	0.53	0.21	0.74	3.66	0.65	4.31	33
37979	AA	Ln	22.3	55.4	14.9	0.45	0.18	0.11	5.49	2.58	3.54	44
37982	AA	Ln	22.5	57.7	15.2	0.48	0.18	0.15	4.13	1.83	3.78	45
401086	AA	Ln	23.2	54.95	14.89	0.58	0.34	0.1	6.98	0.62	4.69	30
31497	AA	Ln	23.7	61.3	18.01	0.56	0.25	0.1	0.83	5.1	1.67	76
37903	NCF	Lba	25.4	67.3	13.76	0.67	0.04	0.13	0.02	2.73	2.03	75
120804	AA	?	26.7	57.6	15.4	0.49	0.16	0.11	3.66	2.66	3.08	51
120803	AA	?	34.3	52.9	16.4	0.6	0.2	0.18	3.36	0.15	4.66	35
75871	NCS	Lba	45.1	63.51	16.58	0.76	0.22	0.09	1.99	2.69	1.26	41
37141	NCS	Lba	46.4	54.4	20.26	0.92	0.15	0.12	0.26	3.14	2.01	68
37186	NCF	Lba	47	51.1	15.34	0.69	0.09	0.2	6.47	0.82	4.44	31
39337	NCF	Lb	47.9	51.5	17.6	0.83	0.12	0.22	4.37	0.78	5.04	44
35100	CVC	Lba	48	53.3	17.34	0.72	0.08	0.17	2.42	1.14	4.65	47
75834	NCS	Lba	51.2	59.53	17.98	0.81	0.22	0.01	0.33	2.5	1.42	50
39816	AA	Lba	52	45.2	15.7	0.78	0.13	0.16	9.67	2.04	3.33	32
37159	NCF	Lba	53.6	49.9	15.51	0.76	0.06	0.19	5.73	1.69	3.82	40
401090	TG	Sw	64.2	53.5	15.15	1.23	0.05	0.2	3.3	0.69	4.65	36

Appendix 6

Thin Section Locations

782242

YOLANDE EL 11/85
THIN SECTION LOCATIONS

sample	east/DDH	north/depth
216481		
216540	379026.0	5356875.0
216541	379288.0	5357556.0
216542		
31488	379924.0	5358394.0
31490	380061.0	5358345.0
31491	379940.0	5358300.0
31492	379993.0	5358308.0
31493	379994.0	5358309.0
31494	379875.0	5358680.0
31495	379400.0	5357970.0
31496	379636.0	5357920.0
31497	380680.0	5357400.0
31498	379975.0	5358430.0
31536	379825.0	5358750.0
32140	380000.0	5354740.0
32150	379000.0	5357800.0
32153	379149.0	5358360.0
32165	379553.0	5357960.0
32170	379039.0	5358535.0
32173	379680.0	5358798.0
32176	379306.0	5359197.0
32188	379200.0	5357563.0
32196	378730.0	5359800.0
32197	378779.0	5359595.0
32806	378770.0	5360032.0
32850.1	379295.0	5358061.0
32850.2	379295.0	5358061.0
32860	379267.0	5358061.0
32866	379266.0	5358260.0
32867	379287.0	5358261.0
35009	379800.0	5358870.0
35010	379700.0	5359000.0
35017	379985.0	5358380.0
35041	379540.0	5360715.0
35042	379837.0	5360680.0
35043	379840.0	5360674.0
35046	YNC1	10.2
35047	YNC1	29.7
35048	YNC1	44.2
35049	YNC1	51.6
35050	YNC1	56.1
35080	YNC4	88.4
35084	YNC4	160.0
35087	YNC4	244.8
35093	YNC5	104.7
37138	380038.0	5358340.0
37140	380037.0	5358339.0
37141	380037.0	5358338.0
37142.1	380047.0	5358339.0
37142.2	380047.0	5358339.0
37143	380049.0	5358338.0
37144	380019.0	5358319.0
37145	379978.0	5358302.0
37146	379980.0	5358300.0
37148	379988.0	5358304.0
37149.1	380042.0	5358351.0
37149.2	380042.0	5358351.0
37149.3	380042.0	5358351.0
37158		

37161	YNC7	27.8
37162	YNC7	73.4
37163	YNC7	135.6
37164	YNC7	180.0
37165	YNC7	184.5
37166	YNC7	201.0
37167	YNC7	280.4
37168	380040.0	5358350.0
37169	379956.0	5358295.0
37170	379958.0	5358295.0
37171	379977.0	5358300.0
37172		
37221	YNC5	218.5
37223	YNC5	288.0
40106	YHV2	45.4
40107	YHV2	80.3
40108	YHV2	106.3
40109	YHV2	89.0
40111	YNC14	18.1
40112	YNC14	65.0
40113	YNC14	79.9
40114	YNC14	108.1
40115	YNC14	140.9
40117	YNC14	83.6

YOLANDE EL 11/85
THIN SECTION COMMENTS

782244

sample	Comments
216481	
216540	
216541	
216542	vesicular evolved plag-phy chl
31488	NC cong clast:white dacite weak to mod ser alt
31490	HW dacite: similar to(31488 35046)
31491	FW magnetic andeite: plag-hb-qtz-fetiO phyric. Crown Hill ty
31492	spillway sst: volcanigenic matrix of vitric ash? (no detrita
31493	spillway chert: volcaniclastic detritus in vitric ash. Minor
31494	road north of spillway: glassy dacite-rhyodacite lava-pumice
31495	lam slt from N creek line volcanigenic slt in vitric ash. We
31496	lam slt from hill cong: derived from pelitic metamorphics st
31497	Howards Anomaly: plag-hb-qtz phyric andesite with strong ser
31498	spillway sst: volcanigenic , matrix vitric ash? (no detrital
31536	aphyric felsic lava
32140	
32150	
32153	cf MRS ACG
32165	
32170	v cb alt
32173	aphyric evolved
32176	
32188	
32196	HDS?
32197	cf Henty Dyke Swarm tholiites
32806	cf HDS tholiites
32850.1	
32850.2	cf MRS ACG
32860	
32866	
32867	
35009	road north of spillway: (31494) rhyodacite? lava-pumice brec
35010	rhyo-dacite crystal vitric tuff
35017	spillway: sst derived from vitric felsic volcanics. Strong s
35041	Henty Canal: plag phy dacite
35042	Henty Canal: vitric xtl tuff with mod sil sp ser alt
35043	Henty Canal: conglomerate composed of 35042 material with py
35046	YNC1 HW dacite: (31490 31488) no qtz phy. weak alt
35047	YNC1 dacite autobreccia mixed with ? matrix
35048	YNC1 lam xtl slt: 34196 derived from volcs+metapelites stron
35049	YNC1 Vpm: monomict breccia pumiceous. Weak alt
35050	YNC1 Vpm: (35049) no significant hydrothermal alteration
35080	
35084	YNC4 dacite: strong chl,ser,py,sp alt
35087	YNC4 dacite: 35046 spillway HW
35093	YNC5 andesite: plag-hb phy Ln: alt chl/sil/haem/calc
37138	spillway near sulphide: Ld with moderate sil-ser-py alt
37140	spillway volcaniclastic sandstone dacite derived, mod ser-ch
37141	spillway near sulphide; vesicular basalt strongly ser alt cf
37142.1	spillway volcaniclastic sst (above cong) matrix pumiceous st
37142.2	spillway volcaniclastic sst strong ser alt
37143	spillway hw mudstone derived from glassy felsic volcanics
37144	spillway near sulphides: qtz-fld rhyolite with weak ser alt
37145	spillway from basalt: unusual perlitic rhyolite
37146	spillway basalt strongly ser-chl alt + glassy dacite clast
37148	spillway dacite lava breccia with strong qtz-carb alt
37149.1	spillway slt below cong bimodal felsic volcs - pelitic metam
37149.2	spillway
37149.3	spillway volcaniclastic sat weak hydrothermal alt
37158	Spillway: polymict mineralised wacke

782245

37161	sheared dacite?
37162	autoclastic dacite
37163	massive dacite
37164	polymict breccia with mineralisation
37165	polymict breccia with sphalerite
37166	andesite below sediments
37167	cleaved sericitic dacite derived clastic
37168	Spillway: float vesicular basalt with galena
37169	Spillway: massive lava? sandstone?
37170	Spillway: autobreccia? vent rock?
37171	Spillway: basalt? containing dacite clasts
37172	YNC7 collar quartz eye shear rock rhyolite?
37221	YNC5 aphyric dacite sil,ser,cb alt
37223	YNC5 aphyric dacite v alt k2o-ser
40106	plagioclase-phyric fine-medium grained holocrystaline doleri
40107	strongly altered brecciated meta-pelite
40108	thoroughly recrystalized (60-70% calcite) limy mudstone
40109	brecciated quenched aphyric andesitic lava. tholiitic HDS ty
40111	altered volcaniclastic sandstone, dacite derived
40112	strongly sericite-silica-pyrite altered volcaniclastic sedim
40113	intensely ser-sil-py altered felsic volcaniclastic, clasts t
40114	strongly altered autobrecciated dacite lava
40115	moderatly sil-ser-py altered dacite lava. minor spotty carbo
40117	intensely sil-ser-py altered dacite lava or lava breccia

Appendix 7

Petrographic Report: AJ Crawford

SAMPLE NUMBER: 40106

SUMMARY DESCRIPTION:

This sample is a sparsely plagioclase-phyric fine- to medium-grained holocrystalline doleritic rock. Plagioclase phenocrysts are rather elongate albitized prisms to almost 4mm long, but they make up <3 modal% of the rock, and most are overprinted by carbonate alteration. The remainder of the rock is a fairly altered intergrowth of strongly altered (sericite-chlorite) albitized plagioclase laths, former augite grains altered to messy brownish microcrystalline epidote, interstitial augite and secondary quartz, and abundant well-formed FeTi oxides, many of which are quite bladed and elongate, suggesting ilmenite, although equant crystals (titanomagnetite?) are also common. Long thin apatite needles are common also. The alteration assemblage is prehnite-pumpellyite facies. I suggest that this is an intrusive dolerite of evolved basaltic composition and almost certain tholeiitic parentage, as indicated by the abundant primary oxides. This invites correlation with basalts of the Henty Dyke Swarm and Henty Fault Wedge.

SAMPLE NUMBER: 40107

SUMMARY DESCRIPTION:

This sample is a strongly altered and brecciated (brittly-fractured) meta-pelite. The protolith was probably a mudstone, although textural preservation and alteration make it impossible to determine if the rock was originally constituted by vitric ash. The original constants of this fine-grained rock have recrystallized to a very fine-grained quartzose intergrowth riddled with sericite and minor calcite. Primary bedding is preserved and defined by a bedding-parallel weak fracture cleavage, and by vague changes in average grainsize that have been mainly obliterated by the recrystallization-alteration. Abundant narrow calcite and quartz veinlets cut the sample, and several generations of veinlets are present; in zones of intense brecciation extensive recrystallization of coarser-grained quartz and dissolution of sericite has occurred. Few of the veinlets persist for more than a few mm before they are terminated at fractures and microshear zones.

SAMPLE NUMBER: 40108

SUMMARY DESCRIPTION:

This sample is a thoroughly recrystallized and weakly foliated rock composed of about 60-70% calcite, and the remainder is microcrystalline quartz, miro polygonal secondary quartz, and trails of Fe oxides. The protolith of this sample may have been a limy mudstone, although there are no primary textural features left to provide useful information. The rock consists of a fine- to medium-grained intergrowth of euhedral calcite rhombs, often with quartz pressure fringes, occasional patches of massive finer-grained calcite, and very fine-grained to microcrystalline quartz with abundant trails of fine-grained opaques that define the foliation. Some of the latter may be carbonaceous (graphitic) material rather than Fe(-Ti) oxides. Several fibrous quartz-calcite veins, one ~1cm thick, cut the rock.

SAMPLE NUMBER: 40109

SUMMARY DESCRIPTION:

This sample is a brecciated and veined quenched aphyric lava of probable andesitic composition that was probably originally largely glassy. Most of the rock consists of a fine-grained rather messy intergrowth of calcite, sericite, very fine-grained quartz and dirty brown microcrystalline epidote. No textural features are preserved over most of the rock, but in a few marginal areas of the slides, a clear quench texture composed of epidote-pseudomorphed plagioclase laths set in a calcite-dominated totally altered and recrystallized groundmass is evident. These formerly more crystalline areas also contain common leucoxene-altered opaques. The overall texture, with common calcite-chlorite-filled veinlets and fracture and zones of formerly glassy and quench crystallized lava suggest that this was either a pillow margin, or the margin of a narrow, quenched dyke. There are minimal clues available from which to determine the affinities of the dyke, but at a guess, I suggest that it may be a tholeiitic Henty Dyke Swarm-type evolved basaltic andesite. In this case, expected Ti/Zr would be 40-70.

SAMPLE NUMBER: 40111

SUMMARY DESCRIPTION:

This sample is a recrystallized and altered rock that was a plagioclase phenocryst-dominated volcaniclastic sandstone. The source terrain or magma was clearly a felsic terrain with dominant plagioclase-phyric glassy lavas. Plagioclase crystals make up about 25 modal% of the rock, and are albitized crystals mainly less than 1mm long that are often angular and broken, but quite rounded crystals are also not uncommon. Occasional lithic clasts that contain small plagioclase laths appear to have been formerly glassy lavas. Most of the rock matrix consists of fine-grained but heterogeneous quartzo-feldspathic material with common overprinting fine-grained calcite, and very patchy chlorite. Chlorite-defined foliation planes are broadly spaced and discontinuous, and significant areas of the section are almost chlorite-free but contain common sericite and calcite. The apparent brecciation in hand specimen is undoubtedly an alteration feature, and reflects more chlorite-rich and almost chlorite-free domains. Fibrous quartz-calcite-chlorite veins clearly post-date the main 'false brecciation' alteration.

SAMPLE NUMBER: 40112

SUMMARY DESCRIPTION:

This sample is similar to 40111, and is a strongly altered, weakly foliated volcaniclastic sediment that has suffered intense sericite alteration in large patches, overprinting an earlier chlorite alteration. The protolith was a matrix-supported volcaniclastic sandstone with around 30-40 modal% of detrital slightly rounded albitized plagioclase phenocrysts mainly less than 1mm long. Other framework grains include not uncommon leucoxene-altered FeTi oxide phenocrysts, and occasional lithic clasts of devitrified glassy plagioclase-phyric lava. The rock was pervaded by a strong chloritic overprint with common elongate patches of quite dark carbonate (siderite?); subsequently, this rock was flooded by fluids that produced a strong sericite-silica alteration and removed much of the chlorite. Dark chloritic remnants, the 'false clasts' evident in hand specimen, are set in and surrounded by the sericite-dominated domains. The original matrix of this sandstone may have been vitric ash, but it has entirely recrystallized to fine-grained quartzo-feldspathic material that

SAMPLE NUMBER: 40113 VHC 9 79.2

SUMMARY DESCRIPTION:

This sample is a quite strongly foliated, thoroughly recrystallized and pyritic felsic volcaniclastic rock that probably was originally a coarse sandstone. Textural destruction during alteration has obliterated any clues as to the nature of the protolith, but stretched and totally sericitized former plagioclase phenocrysts are occasionally identifiable, and sudden changes in the matrix grain size and texture suggest that the rock may have had larger clasts than the mainly sand-sized grains evident in 40111 and 40112; the hand specimen also has apparent clasts to almost 1cm long. These 'ghost' clasts were either glassy felsic aphyric lavas, or glassy sparsely plagioclase-phyric lavas, in which the glass had devitrified and recrystallized to fine-grained quartzo-feldspathic material before intense sericite-silica±pyrite alteration pervaded the entire rock, clasts and matrix. Pyrite occurs as foliation-parallel trails of tiny crystals and augen-shaped sericitic clasts peppered with tiny pyrite grains are also elongate in the foliation. The rock now consists essentially of quartz, sericite and pyrite; all chlorite and albite have been destroyed during the strong hydrothermal overprint that affected this sample.

SAMPLE NUMBER: 40115

SUMMARY DESCRIPTION:

This sample is a quite strongly altered and brecciated formerly glassy dacitic lava. The rock was probably originally autobrecciated, but a polymict origin can be ruled out, as all fragments are of essentially the same lithology, despite all being recrystallized and veined to varying extents. The dacite lava breccia was sparsely plagioclase-phyric, and small albitized plagioclase phenocrysts with slight to intense sericite alteration make up about 2-3 modal% of the rock. Occasional former FeTi oxide phenocrysts are present, now represented by opaque oxide rims on polygonal quartz intergrowths, and fresh pencil-like apatite micro-phenocrysts are relatively common for a dacitic lava. The rock is strongly fractured and veined, and zones of intense strain are recrystallized to notably more coarse-grained quartzose intergrowths overprinted by euhedral calcite rhombs. A patchy meshwork of sericite pervades the sample, and trails of tiny pyrite cubes, along with larger disseminated

SAMPLE NUMBER: 40115

SUMMARY DESCRIPTION:

This sample was a massive, glassy, sparsely plagioclase-phyric dacitic lava. It has been moderately silica-sericite-pyrite altered and shows a weak foliation. Former plagioclase phenocrysts are albitized and are mainly <1mm long, but often occur in multi-crystal clots; most are almost entirely overprinted by sericite. Small apatite microphenocrysts are common, and former FeTi oxide microphenocrysts are all replaced by leucoxenitic material. The formerly glassy groundmass recrystallized to a very fine-grained quartzo-feldspathic aggregate before being overprinted by the fine-grained sericite that pervades this sample. Trails of small pyrite grains follow a fairly clear foliation, and small discontinuous cracks are healed by more coarsely crystalline quartz than that occurring in the groundmass. Minor spotty carbonate alteration overprints the sericite-silica-pyrite alteration.

SAMPLE NUMBER: 40117

SUMMARY DESCRIPTION:

This sample also was originally a glassy sparsely plagioclase-phyric dacitic lava or lava breccia. The sample has been strongly recrystallized during fairly intense hydrothermal alteration that produced a quartz-sericite-pyrite assemblage. Small albitized plagioclase phenocrysts are occasionally preserved, but most are replaced by polygonal quartz aggregates. Only traces of former FeTi oxide microphenocrysts are preserved as clusters of tiny sphene and magnetite(?) grains defining outlines of FeTi oxide grains. The groundmass of this sample was undoubtedly glassy, and has recrystallized to a rather coarse mosaic texture of quartz and albite; the latter is thoroughly sericitized through most of the rock. Veins of fine-grained sericite, and patches of dense sericite to a few mm wide, are common. Trails of fine-grained pyrite define a weak foliation, and disseminated fine-grained pyrite is widespread and abundant; very irregular, almost stockwork veins of coarser-grained quartz are common at one end of the section. It is impossible to judge whether the weak brecciation of this sample is primary, or due to the strong quartz-sericite-pyrite alteration, but my best guess is that it is a response to hydrothermal fluids.

782252

Appendix 8

A Review of Aeromagnetics and UTEM in the Newton Creek/Henty Canal area: P Smith & G Dixon

782253

PASMINCO EXPLORATION
INTERNAL MEMORANDUM

TO: Mike Quayle

cc: Paul Basford

FROM: Peter Smith

DATE: 21 July, 1995

RE: Newton Creek AMAG / UTEM

Following my visit earlier in the year where I indicated that I would look at the available data on the Newton Creek area (to include Aeromagnetics and the UTEM data), I enclose the following notes and maps.

Aeromagnetics

The supplied data is a helimagnetic survey flown for Aberfoyle over their Anthony Basin prospect. Gridding and imaging of the data were done with Intrepid and ER Mapper respectively.

The aeromagnetic interpretation predominantly indicates structural displacements of magnetic features and magnetic features which are out of character (ie possible alteration features) with the bulk of the survey area. I have not attempted to classify individual magnetic features to a lithological unit, as I feel that I am not familiar with the local geology enough to attempt such a style of interpretation and this should really be left to the local geophysicist (Paul).

The South Henty fault has been directly delineated from the 1:25,000 geology as I can not see any pattern that could classify it from the aeromagnetics in this data set. The Great Lyell fault position however has been interpreted directly from the magnetics, as termination and truncations of magnetic units.

Numerous small faults have been interpreted with an indicated movement offset direction marked where appropriate.

Two main anomalous magnetic features are evident in the data.

1: South Tyndall Magnetic Low

This magnetic feature immediately south of the Tyndall Mine is consistent with a zone which has had a degree of magnetite destruction. Magnetite destruction alteration is a consistent feature in NW Tasmanian VHMS deposits. The location along strike from a known occurrence of mineralisation would ellivate the anomaly into a highly anomalous feature which should be followed up, if the ground becomes available.

2: Anomalous Magnetic Low

This magnetic feature which is at the junction of the South Henty Fault and the intrepreted Newton Creek disruption zone is an anomalous magnetic low that appears to be more than just magnetic destruction. The enhancement of the magnetic low to being lower in magnetic intensity, than the area's non-magnetic units, indicates that it is probably caused by a zone of remanent magnetization, which post dates the deposition or implacement of the host rocks.

Typically remanent magentisation similar to this, has been noted in areas that have had a degree of hydrothermal alteration. This particular anomaly would be more of a gold play than a base metal prospect, with the Henty Gold Mine being only a few kilometers north of the survey area.

A similar priority anomaly is where a thin linear magnetic high is located in the Great Lyell fault NE of the Tyndall Mine. The magnetic anomaly could possibly be related to fluid movement within the fault.

UTEM

Four contour plots of the UTEM data have been included:

Channel 7	0.22 msec
Channel 6	0.43 msec
Channel 5	0.86 msec
Channel 6	0.43 msec horizontal derivative

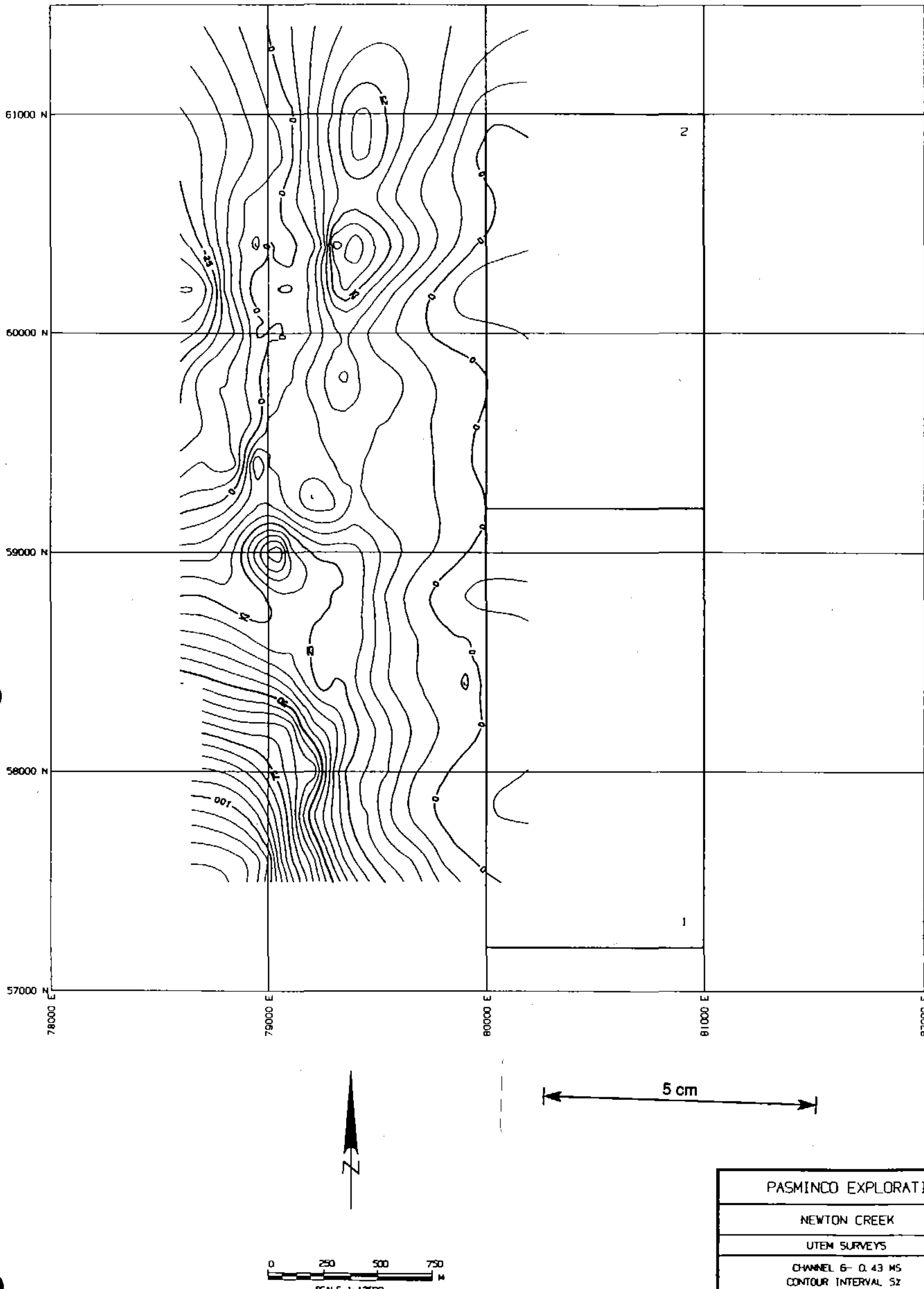
The horizontal derivative plots has been used as a interpretive overlay and the following comments relate to it.

Anomalies appear to be mainly current gathering effects, with one long linear anomaly being associated with the South Henty fault, but offset to the West (this implies that the South Henty fault dips to the west, or that its location is not accurately depicted in the 1:25,000 geology?)

Other anomalies are associated with rapid elevation changes, and with the Henty river and are considered spurious.

The presence of a positive or negative anomaly is mainly related to the normalisation technique used by the UTEM contractor, and any change in gradient can be seen as being associated with a change in the effective current flow in the ground, and as such reflect geological events or geographical (ie topography) in nature.

782255



PASMINCO EXPLORATION

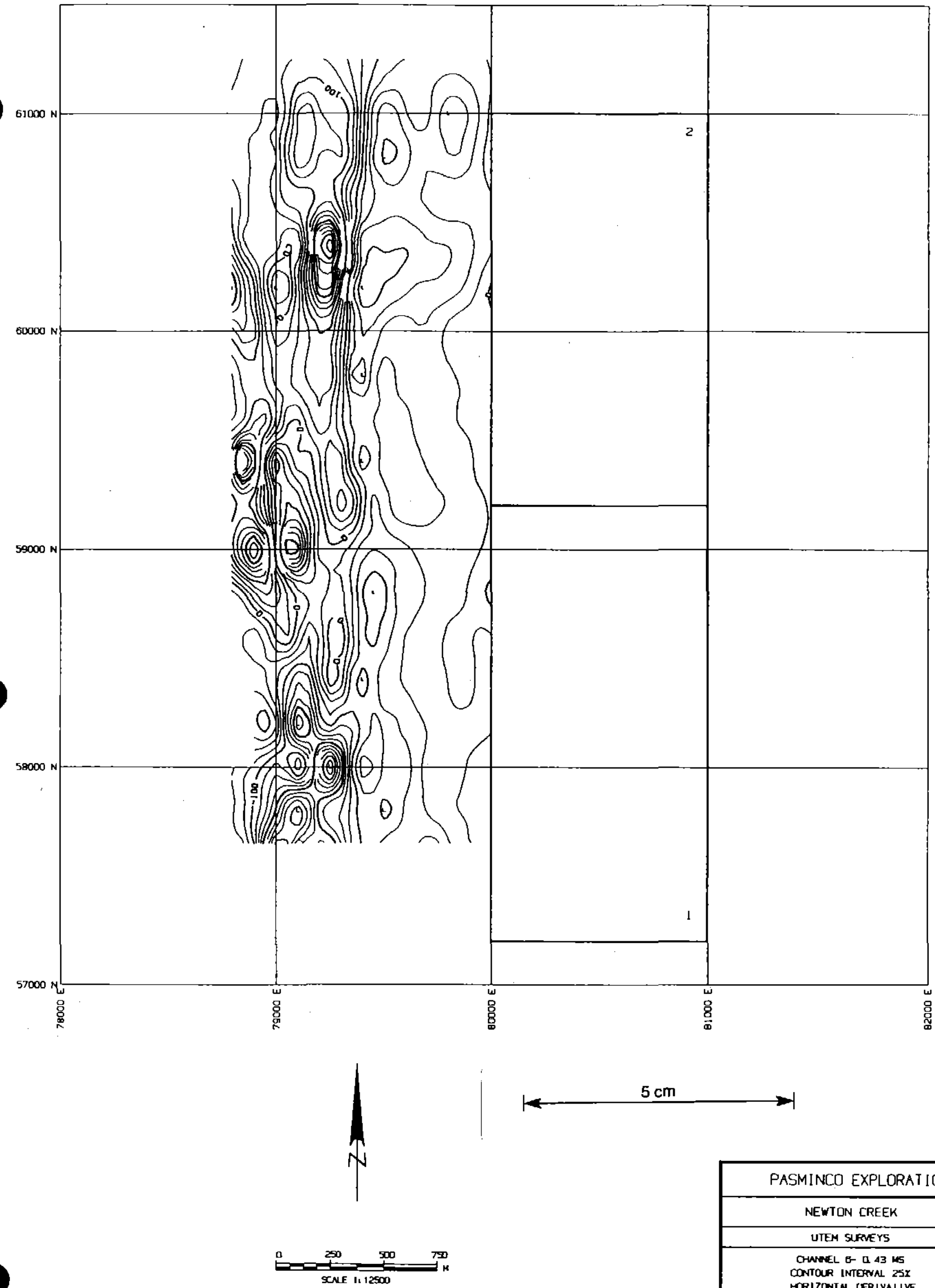
NEWTON CREEK

UTEM SURVEYS

CHANNEL 6- 0.43 MS
CONTOUR INTERVAL 5%

MARCH 1995

782256



PASMINCO EXPLORATION

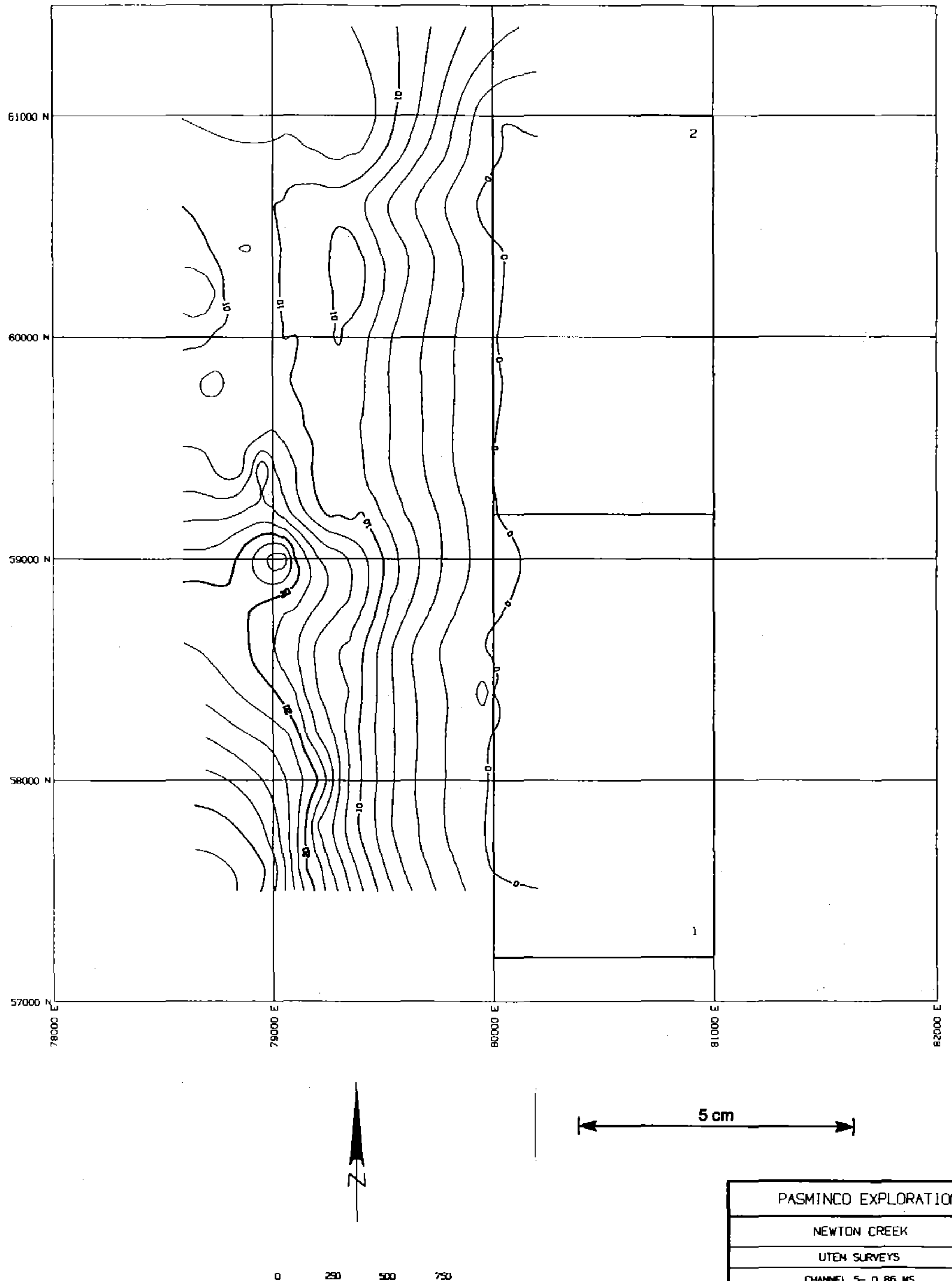
NEWTON CREEK

UTEM SURVEYS

CHANNEL 6- 0.43 MS
CONTOUR INTERVAL 25%
HORIZONTAL DERIVATIVE

MARCH 1995

782257



PASMINCO EXPLORATION

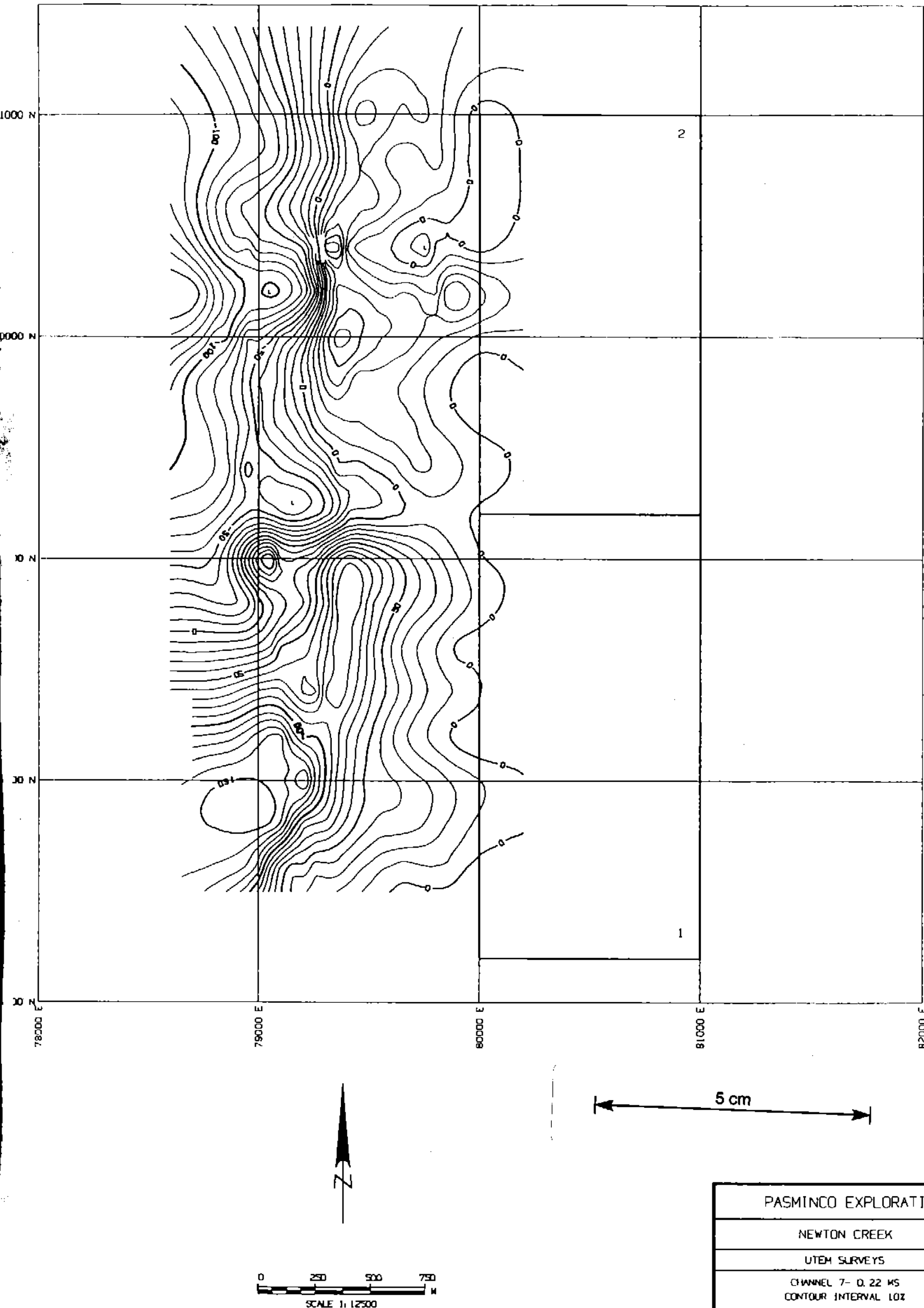
NEWTON CREEK

UTEM SURVEYS

CHANNEL 5- 0.86 MS
CONTOUR INTERVAL 10%

MARCH 1995

782258



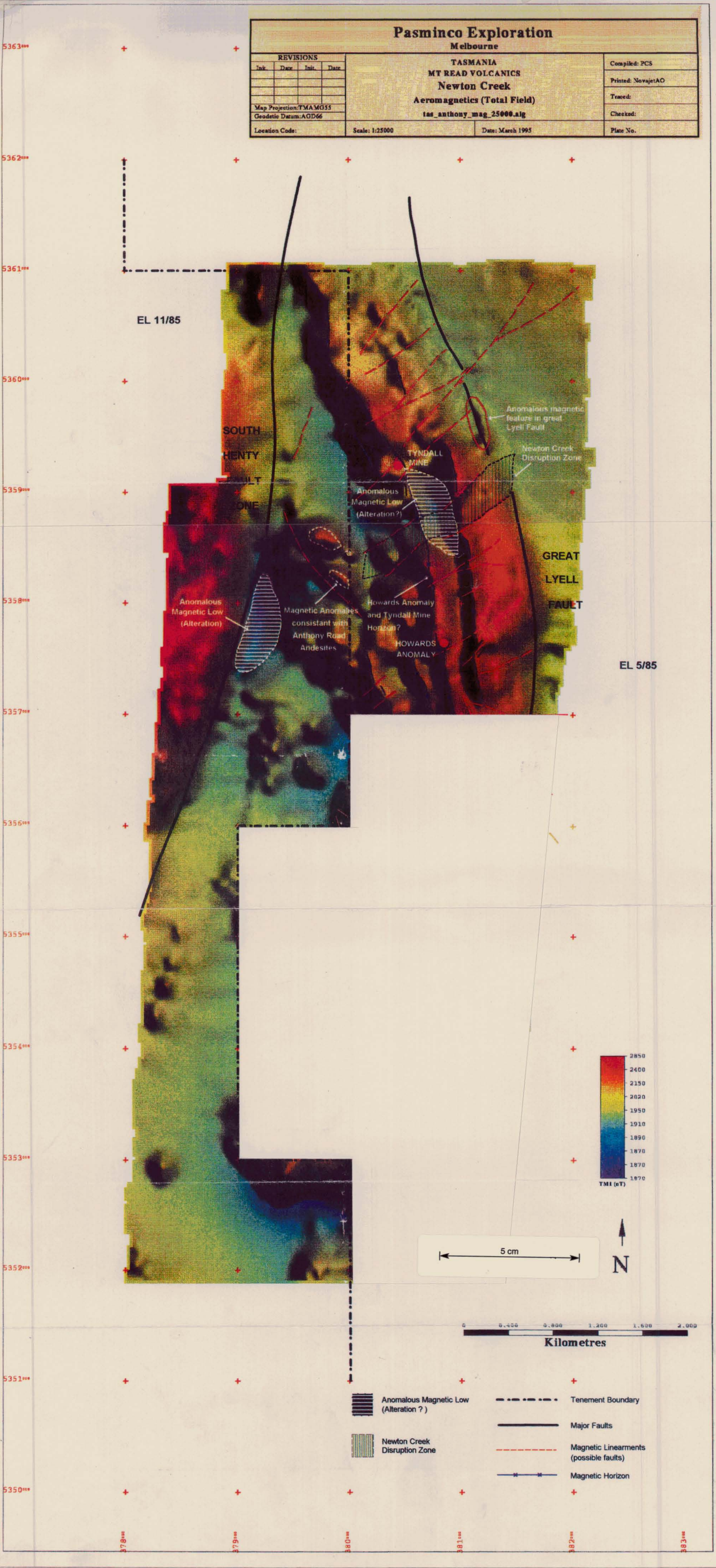
PASMINCO EXPLORATION

NEWTON CREEK

UTEM SURVEYS

CHANNEL 7- 0.22 MS
CONTOUR INTERVAL 10%

MARCH 1995


Pasminco Exploration
Melbourne
REVISIONS
Init. Date Init. Date
Map Projection:TMAMG55
Geodetic Datum:AGD66
Location Code:
TASMANIA
MT READ VOLCANICS
Newton Creek
Aeromagnetics (Total Field)
tas_anthony_mag_25000.alg
Scale: 1:25000
Date: March 1995
Compiled: PCS
Printed: NovajetAO
Traced:
Checked:
Plate No.
EL 11/85
SOUTH HENTY FAULT ZONE
TYNDALL MINE
Anomalous magnetic feature in great Lyell Fault
Newton Creek Disruption Zone
Anomalous Magnetic Low (Alteration?)
GREAT LYELL FAULT
Anomalous Magnetic Low (Alteration)
Magnetic Anomalies consistant with Anthony Road Andesites
Howards Anomaly and Tyndall Mine Horizon?
HOWARDS ANOMALY
EL 5/85
2850
2400
2150
2020
1950
1910
1890
1870
1870
1870
TMI (nT)
5 cm
N
0 0.400 0.800 1.200 1.600 2.000
Kilometres
Anomalous Magnetic Low (Alteration ?)
Newton Creek Disruption Zone
Tenement Boundary
Major Faults
Magnetic Linearments (possible faults)
Magnetic Horizon
5363000
5362000
5361000
5360000
5359000
5358000
5357000
5356000
5355000
5354000
5353000
5352000
5351000
5350000
378000
379000
380000
381000
382000
383000

782259

Appendix 9

DHEM Surveys on YNC10-YNC14 & YNC16, Newton Creek.

782261

PASMINCO EXPLORATION

A Division of Pasminco Australia Limited, A.C.N. 004 074 962

Old Burnie Railway Station
Burnie, Tasmania 7320
G.P.O. Box 886
Burnie, Tasmania 7320

MEMORANDUM

TO: PM Quayle

FROM: PW Basford

DATE: 16 November, 1994

FILE: EP/02/3003/8.4

SUBJECT: DHEM YNC10, Yolande EL 11/85

On October 16, 1994, Outer Rim Exploration surveyed hole YNC10 with the CRONE PEM system. Two loops were used for the survey, both of dimension 400m by 400m (PAS 1159; primary field vector plots - PAS 1160). One loop was positioned over the collar (old YNC4 and YNC5 loop) whilst the other started 200m west. The survey was recorded using a 10 msec time base, with 0.5 msec ramp. Seventeen channels of data were recorded from 0.07 to 6.6 msecs. A peak current of 12 amps was circulated through loop.

The collar loop was only read with the axial probe (PAS 1161), whilst axial data and XY data was collected for the west loop (PAS 1162; cross hole data only read to 130m).

The collar loop response is typical of self or system response, which has been observed in the Newton Creek region before (YNC4, YNC5, YNC7 and YNC9 - see memos by NA Hughes).

Telephone: (004) 317 477 Facsimile (004) 318 949

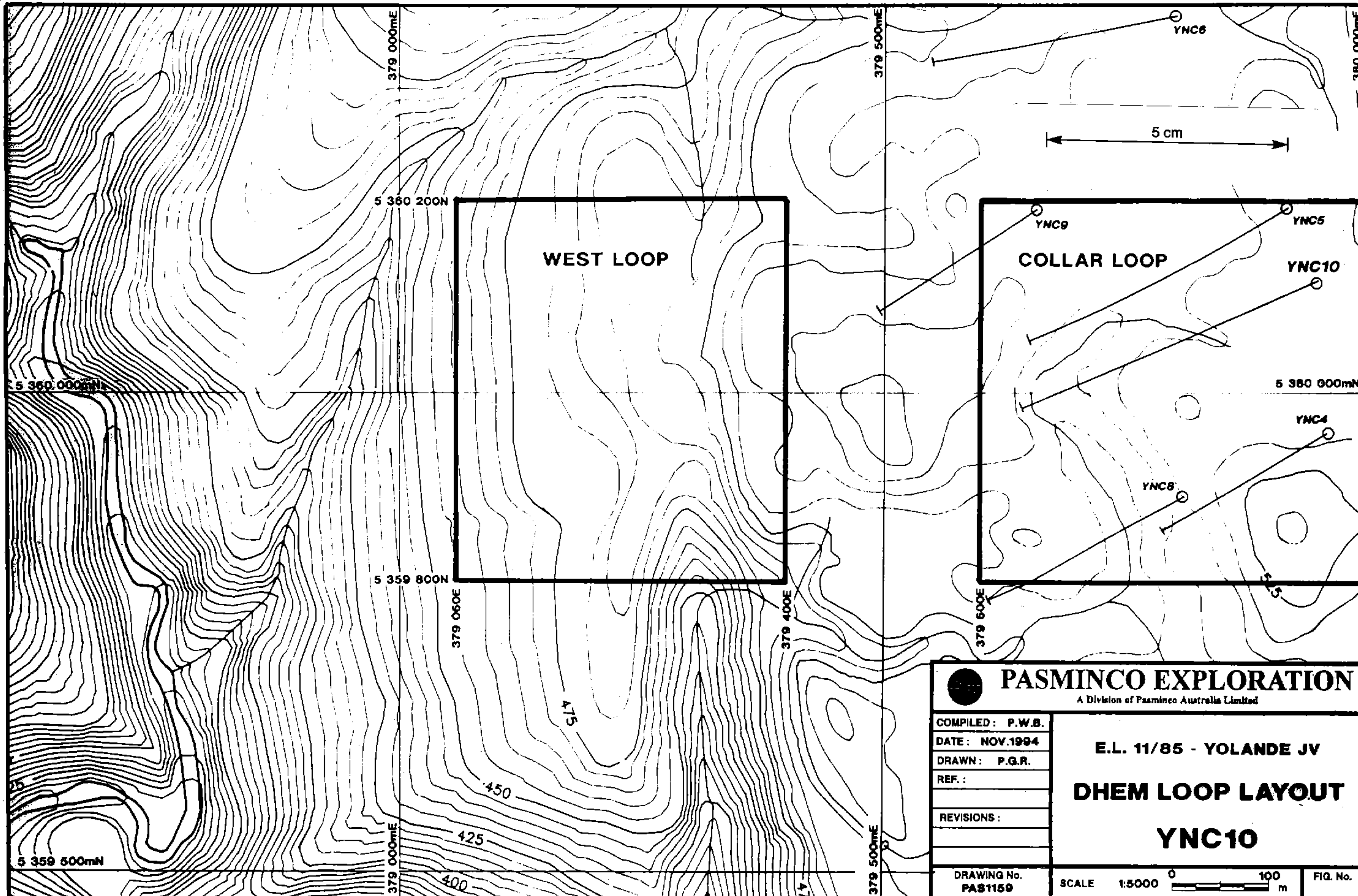
For the west loop, a depression in the secondary field for the first two channels prompted the follow up of cross-hole work (decided by the contractor). The X component data does indicate an early time cross over, however this can be attributed to the smoke ring passing from one side of the hole to the other at very early times. No off-hole anomalies were detected at the bottom of the hole in the axial data.

The axial data is noisy for the west loop as compared to the collar loop. This can be attributed to the signal strength and under stacking, which will be adjusted in future surveys.

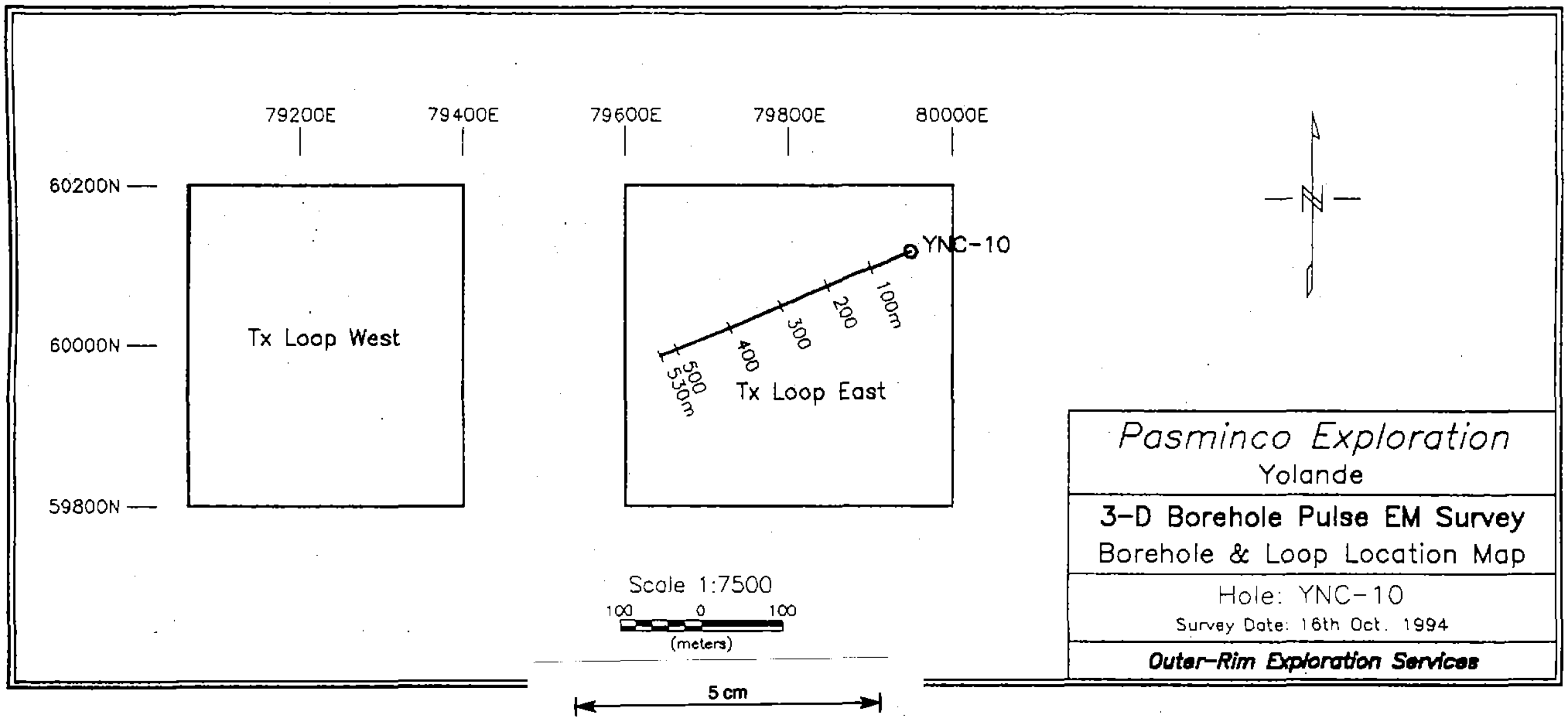
P Basford

Paul Basford

ajs:pwb:94008



379 000mE
379 500mE
380 000mE
YNC6
5 cm
5 360 200N
WEST LOOP
COLLAR LOOP
YNC9
YNC5
YNC10
5 360 000mN
5 360 000mN
YNC4
YNC8
5 359 800N
379 060E
379 400E
379 600E
525
475
450
425
400
5 359 500mN
379 000mE
379 500mE
PASMINCO EXPLORATION
A Division of Pasminco Australia Limited
COMPILED : P.W.B.
DATE : NOV.1994
DRAWN : P.G.R.
REF. :
REVISIONS :
E.L. 11/85 - YOLANDE JV
DHEM LOOP LAYOUT
YNC10
DRAWING No. PAS1159
SCALE 1:5000
0
100
m
FIG. No.



Pasminco Exploration
Yolande

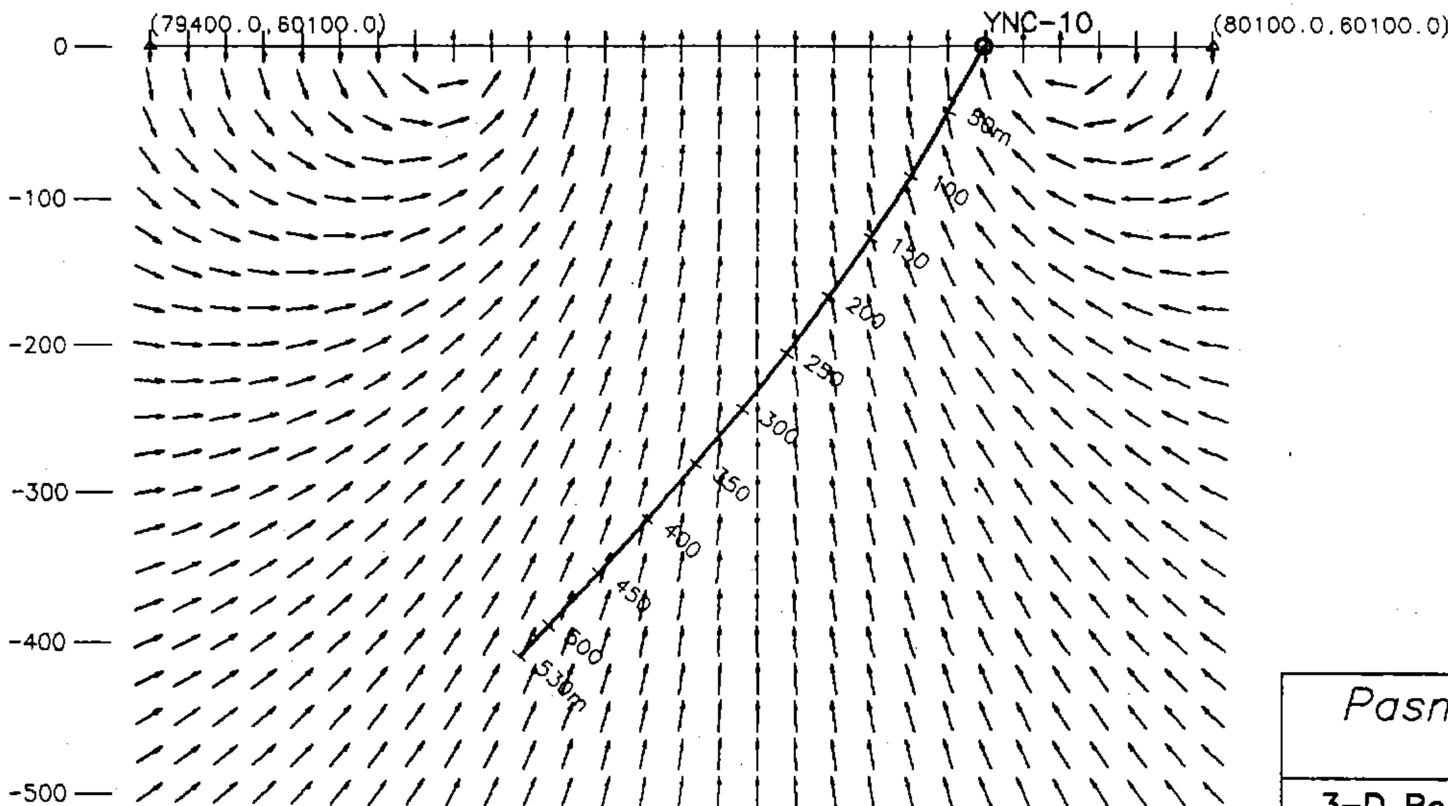
3-D Borehole Pulse EM Survey
Borehole & Loop Location Map

Hole: YNC-10
Survey Date: 16th Oct. 1994

Outer-Rim Exploration Services

PAS 1159

78264



Scale 1:5000

50 0 50 100

(meters)

5 cm

Pasminco Exploration

Yolande

3-D Borehole Pulse EM Survey

Hole Section with Primary Field

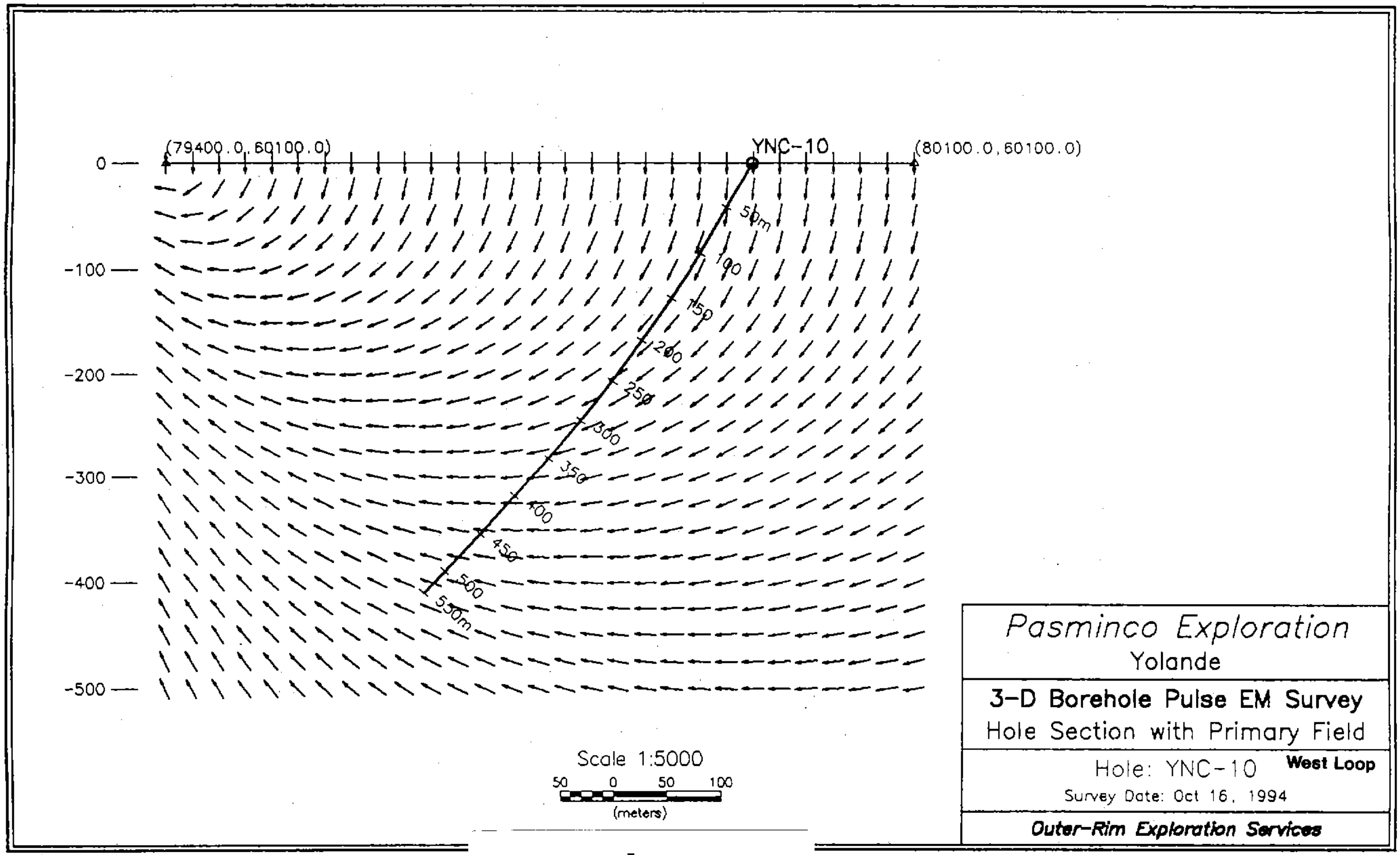
Hole: YNC-10 Collar Loop

Survey Date: Oct 16, 1994

Outer-Rim Exploration Services

PAS 1160a

78265



5 cm

PAS 1160b

782266

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

Client	: Pasminco Exploration	Hole	: YNC-10
Grid	: Yolande	Tx Loop	: East
Date	: Oct 16, 1994	File name	: Y10EZ.PEM
Time Base	: 10.00 ms	# Readings	: 52
Ramp Time	: 0.50 ms	Stn Units	: Metric
# Channels	: 17	Coil Area	: 6500 sq m
Sync Type	: Cable	Polarity	: +
Loop Size	: 400m X 400m	Receiver	: Digital #106
Current	: 12 Amps	Operator	: Kent Honner

Loop Coordinates (X,Y,Z)
1. 80000m, 60200m, 0m
2. 79600m, 60200m, 0m
3. 79600m, 59800m, 0m
4. 80000m, 59800m, 0m

Hole Coordinates (X,Y,Z) or (Azimuth,Dip,Length)
1. 79949m, 60116m, 0m
2. 248deg, 60deg, 15m
3. 246deg, 58deg, 30m
4. 246.8deg, 58deg, 35m
5. 250deg, 57.5deg, 40m
6. 248deg, 55deg, 40m
7. 246deg, 53deg, 40m
8. 246deg, 53deg, 40m
9. 246deg, 51deg, 40m
10. 246deg, 49deg, 40m
11. 246.5deg, 47.5deg, 40m
12. 246.6deg, 46deg, 40m
13. 247deg, 45.5deg, 40m
14. 247deg, 45deg, 90m

Channel Times (usec)

Ch	Start	End	Center	Ch	Start	End	Center	Ch	Start	End	Center
PP	-198	-99	-149	1	76	104	90	2	104	131	117
3	131	171	151	4	171	225	198	5	225	292	259
6	292	378	335	7	378	490	434	8	490	639	565
9	639	828	733	10	828	1075	952	11	1075	1395	1235
12	1395	1809	1602	13	1809	2348	2078	14	2348	3046	2697
15	3046	3951	3498	16	3951	5121	4536	17	5121	6646	5884

General Comments

Man-2 gain setting used for stns. 20-60m as Aut-7 gave signal overl

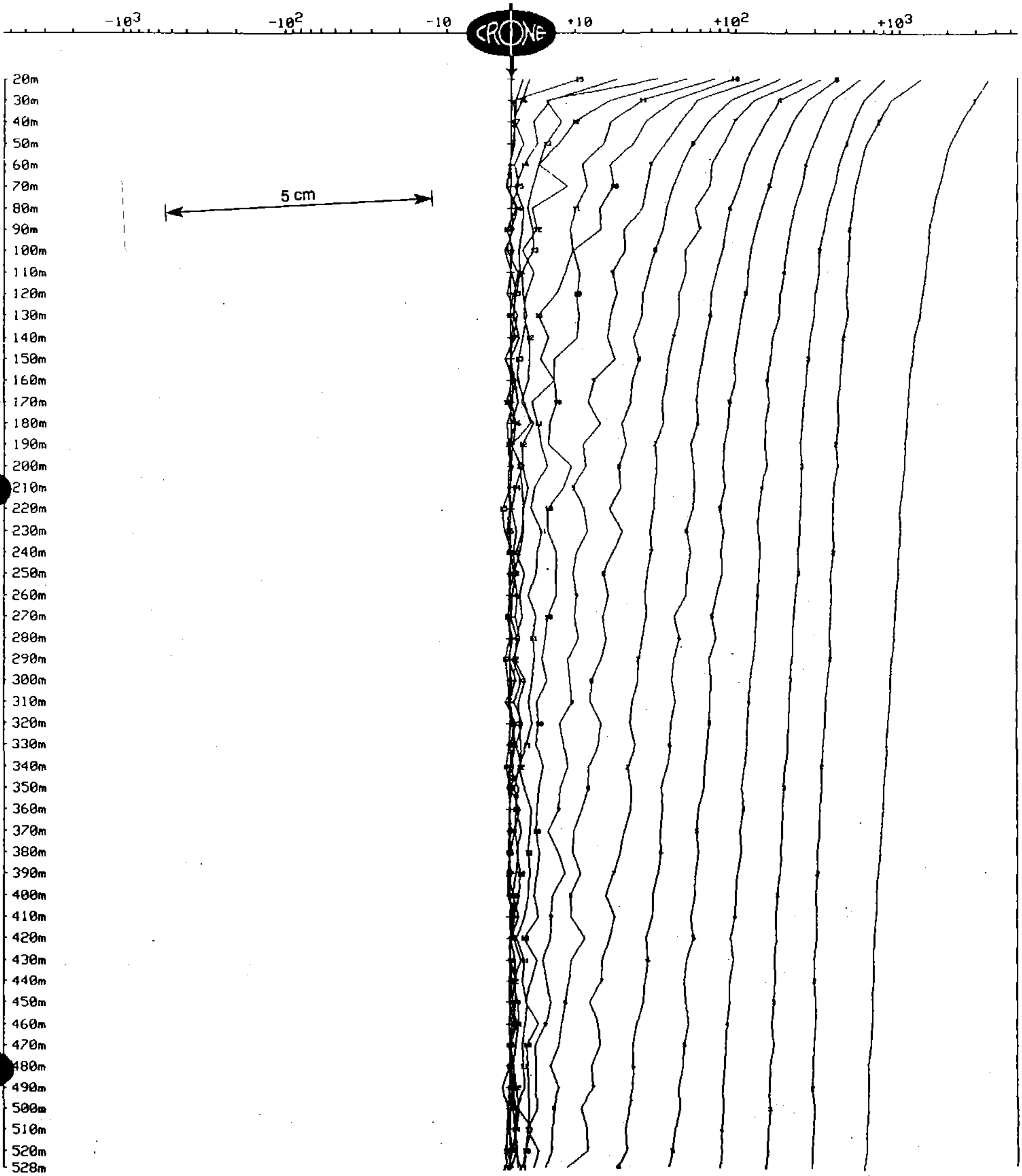
782268

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

Client	: Pasminco Exploration		Hole	:	YNC-10
Grid	: Yolande		Tx Loop	:	East
Date	: Oct 16, 1994		File name	:	Y10EZ.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 17 channels and PP

Scale: 1:2500



PAS 1161

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

Client	: Pasminco Exploration	Hole	: YNC-10
Grid	: Yolande	Tx Loop	: West
Date	: Oct 16, 1994	File name	: Y10WZ.PEM
Time Base	: 10.00 ms	# Readings	: 53
Ramp Time	: 0.50 ms	Stn Units	: Metric
# Channels	: 17	Coil Area	: 6500 sq m
Sync Type	: Cable	Polarity	: +
Loop Size	: 340m X 400m	Receiver	: Digital #106
Current	: 5 Amps	Operator	: Kent Honner

Loop Coordinates (X,Y,Z)
1. 79400m, 60200m, 0m
2. 79060m, 60200m, 0m
3. 79060m, 59800m, 0m
4. 79400m, 59800m, 0m

Hole Coordinates (X,Y,Z) or (Azimuth,Dip,Length)
1. 79949m, 60116m, 0m
2. 248deg, 60deg, 15m
3. 246deg, 58deg, 30m
4. 246.8deg, 58deg, 35m
5. 250deg, 57.5deg, 40m
6. 248deg, 55deg, 40m
7. 246deg, 53deg, 40m
8. 246deg, 53deg, 40m
9. 246deg, 51deg, 40m
10. 246deg, 49deg, 40m
11. 246.5deg, 47.5deg, 40m
12. 246.6deg, 46deg, 40m
13. 247deg, 45.5deg, 40m
14. 247deg, 45deg, 90m

Channel Times (usec)

Ch	Start	End	Center	Ch	Start	End	Center	Ch	Start	End	Center
PP	-198	-99	-149	1	76	104	90	2	104	131	117
3	131	171	151	4	171	225	198	5	225	292	259
6	292	378	335	7	378	490	434	8	490	639	565
9	639	828	733	10	828	1075	952	11	1075	1395	1235
12	1395	1809	1602	13	1809	2348	2078	14	2348	3046	2697
15	3046	3951	3498	16	3951	5121	4536	17	5121	6646	5884

General Comments

Used Client's wire,plus 2x100m "leads" to connect to generator,

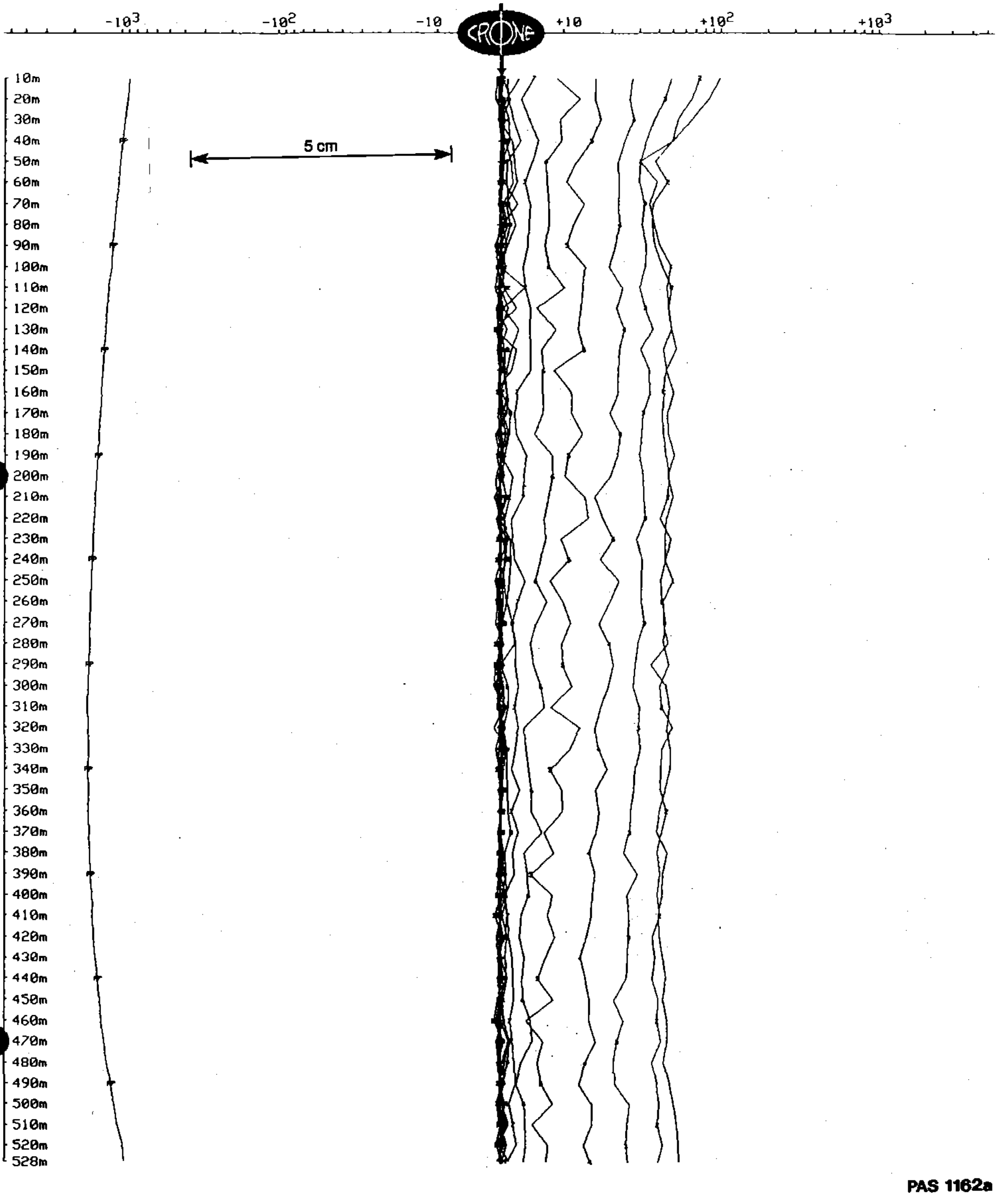
782270

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

Client	: Pasminco Exploration	Hole	: YNC-10
Grid	: Yolande	Tx Loop	: West
Date	: Oct 16, 1994	File name	: Y10WZ.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 17 channels and PP

Scale: 1:2500



PAS 1162a

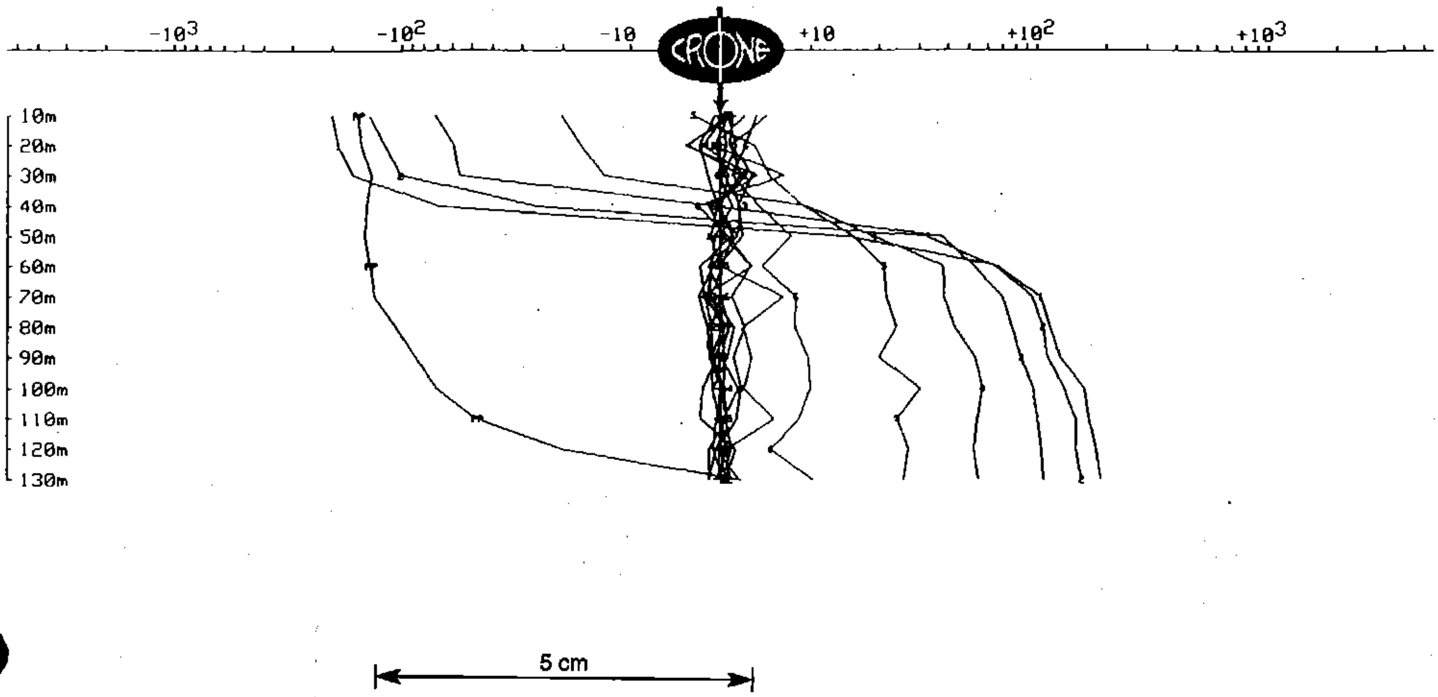
782271

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

Client	: Pasminco Exploration	Hole	: YNC-10
Grid	: Yolande	Tx Loop	: West
Date	: Oct 16, 1994	File name	: Y10WXY.PEM

Data Corrected for Probe Rotation using Orientation Tool #2
X COMPONENT dBx/dt nanoTesla/sec - 17 channels and PP

Scale: 1:2500



PAS 1162b

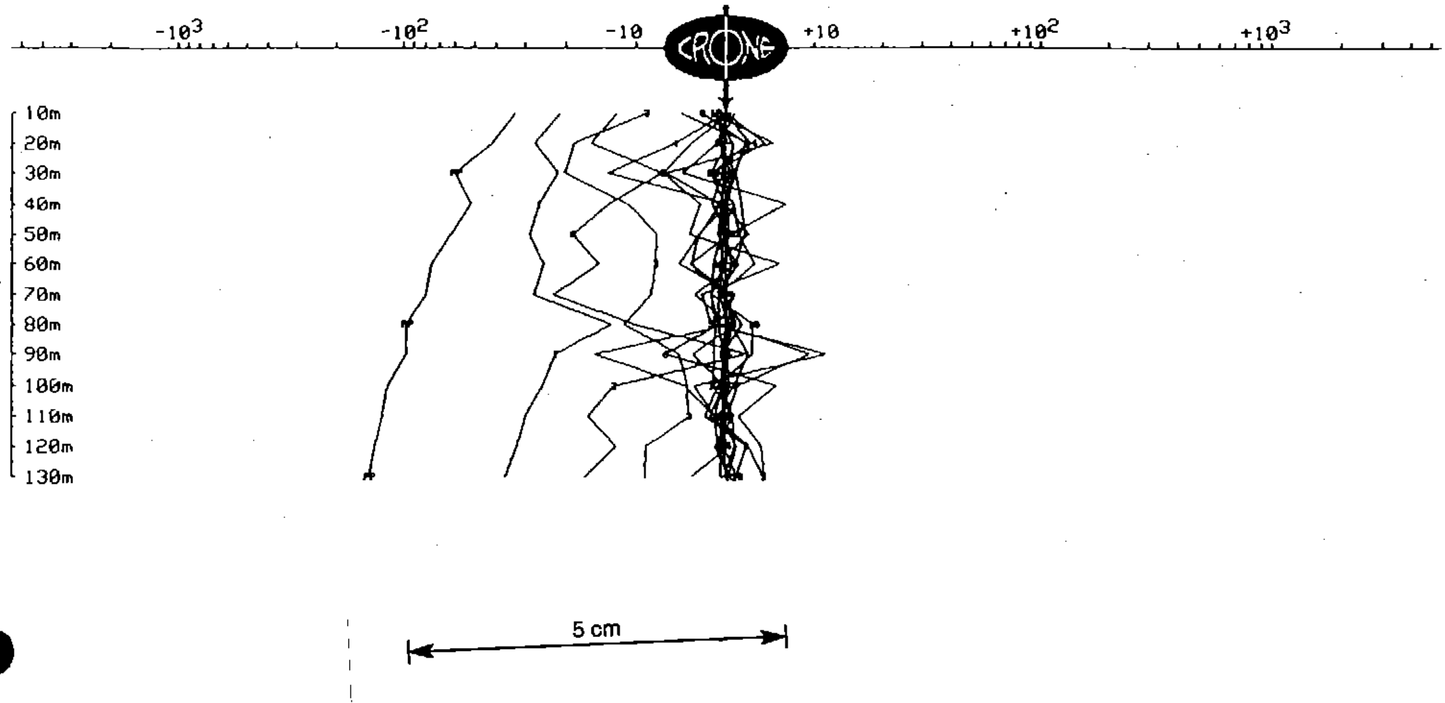
OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

Client : Pasminco Exploration
Grid : Yolande
Date : Oct 16, 1994

Hole : YNC-10
Tx Loop : West
File name : Y10WXY.PEM

Data Corrected for Probe Rotation using Orientation Tool #2
Y COMPONENT dBy/dt nanoTesla/sec - 17 channels and PP

Scale: 1:2500



782273

PASMINCO
EXPLORATION

A Division of Pasminco Australia Limited,
A.C.N. 004 074 962

Old Burnie Railway Station
Burnie, Tasmania 7320
G.P.O. Box 886
Burnie, Tasmania 7320

MEMORANDUM

TO: PM Quayle

FROM: PW Basford

DATE: 10 July, 1995

SUBJECT: **DHEM YNC14 and YNC12, Yolande EL 11/85**

FILE: EP/02/3003/8.4

pwb:95017

YNC14

On April 16, 1995, Outer Rim Exploration surveyed hole YNC14 with the CRONE PEM system. Two loops were used for the survey, one positioned over the collar of the hole, the other located east of the collar (PAS1175; vector plots showing coupling - PAS1176). The collar loop had dimensions of 100m by 150m, whilst the east loop was essentially a 150m by 150m loop (although the leading edge was only 100m long). The survey was recorded using a 20 msec time base and 0.5 msec ramp. Twenty channels of data were recorded from 0.07 to 14.5 msecs. A peak current of 10 Amps was circulated through loop.

Only the axial component probe was used for measurements, as there were no off-hole conductors detected from either loop.

The collar loop data indicates an apparent delay of the smoke ring (PAS1177), which would be attributable to a conductive surface (sub-surface). At around a depth of 60m the current begins to decay in the manner of a simple half-space.

Analysis of the primary field reveals the system overloaded for the first few readings. At a depth of 60m the primary field began to decrease in strength in a normal fashion. Data below the 60m level indicates no anomalous responses.

Data from the east loop (PAS1178) indicates no anomalism, with the data decaying sympathetically with the primary field.

Pyrite intersected in the hole was deemed to be too disseminated (inspection of the core inferred the pyrite not to be electrically connected) to have produced any off-hole or in-hole responses. Physical property studies would enable definition of the conductivity of the pyrite. It is proposed that in future we sample selected areas of core to aid in electromagnetic interpretation and to build up a database of the conductivity of various rocks/ore units.

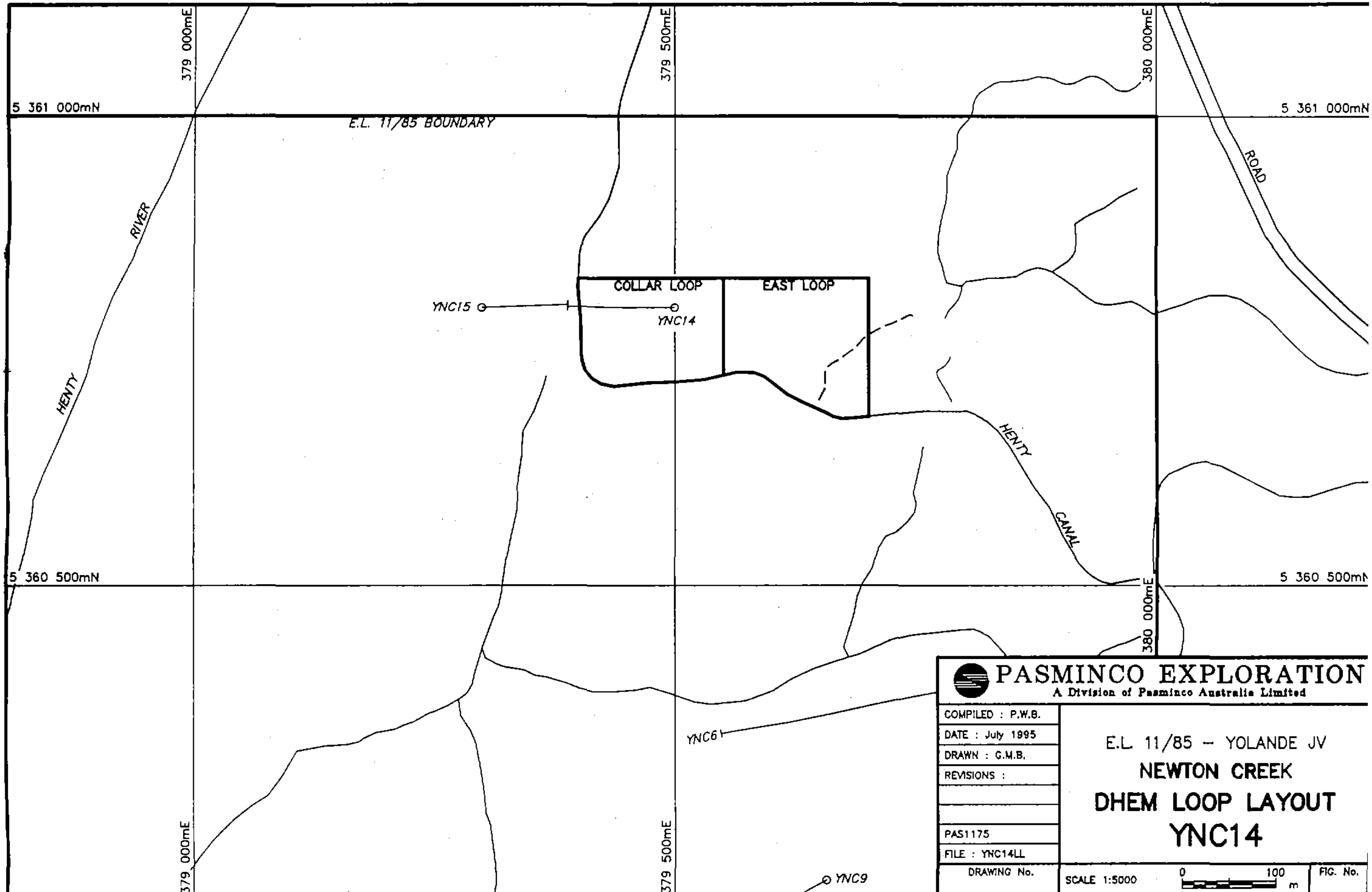
The limited depth of the hole and the search radius of electromagnetics does not infer the area to be void of conductive sulphides, however, there does not appear to be any conductive material close to the hole location.

YNC12

On April 13, 1995, Outer-Rim Exploration attempted to dummy the open hole YNC12 to establish if it could be read. A blockage was encountered at 152m, where after 20 minutes of unsuccessful attempts to pass through this region, the hole was deemed to be impassable. As the main target zone was at a greater depth, the hole was not surveyed.

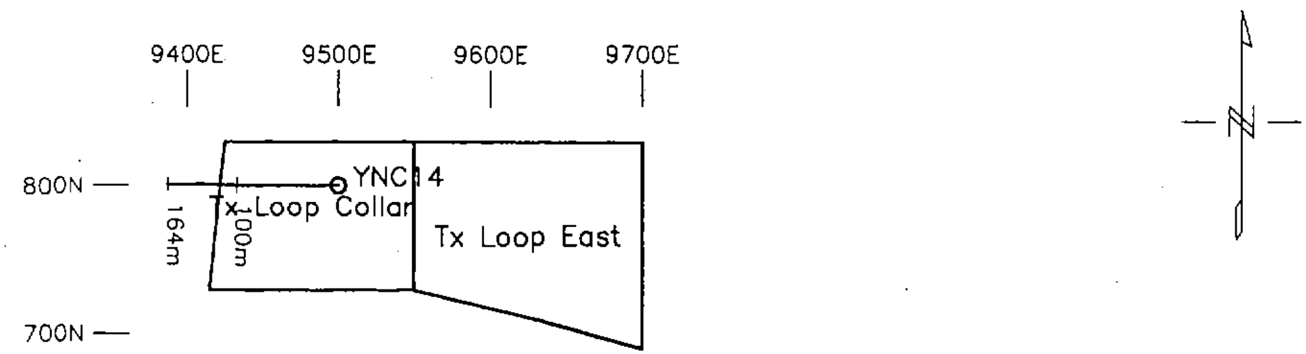
Paul Basford

782275



PASMINCO EXPLORATION
A Division of Pasminco Australia Limited

COMPILED : P.W.B.	E.L. 11/85 – YOLANDE JV
DATE : July 1995	NEWTON CREEK
DRAWN : G.M.B.	DHEM LOOP LAYOUT
REVISIONS :	YNC14
PAS1175	
FILE : YNC14LL	
DRAWING No.	SCALE 1:5000 0 100 m
FIG. No.	



Scale 1:5000

50 0 50 100

(meters)

Pasminco Exploration

Yolande

3–D Borehole Pulse EM Survey

Borehole & Loop Location Map

Hole: YNC-14

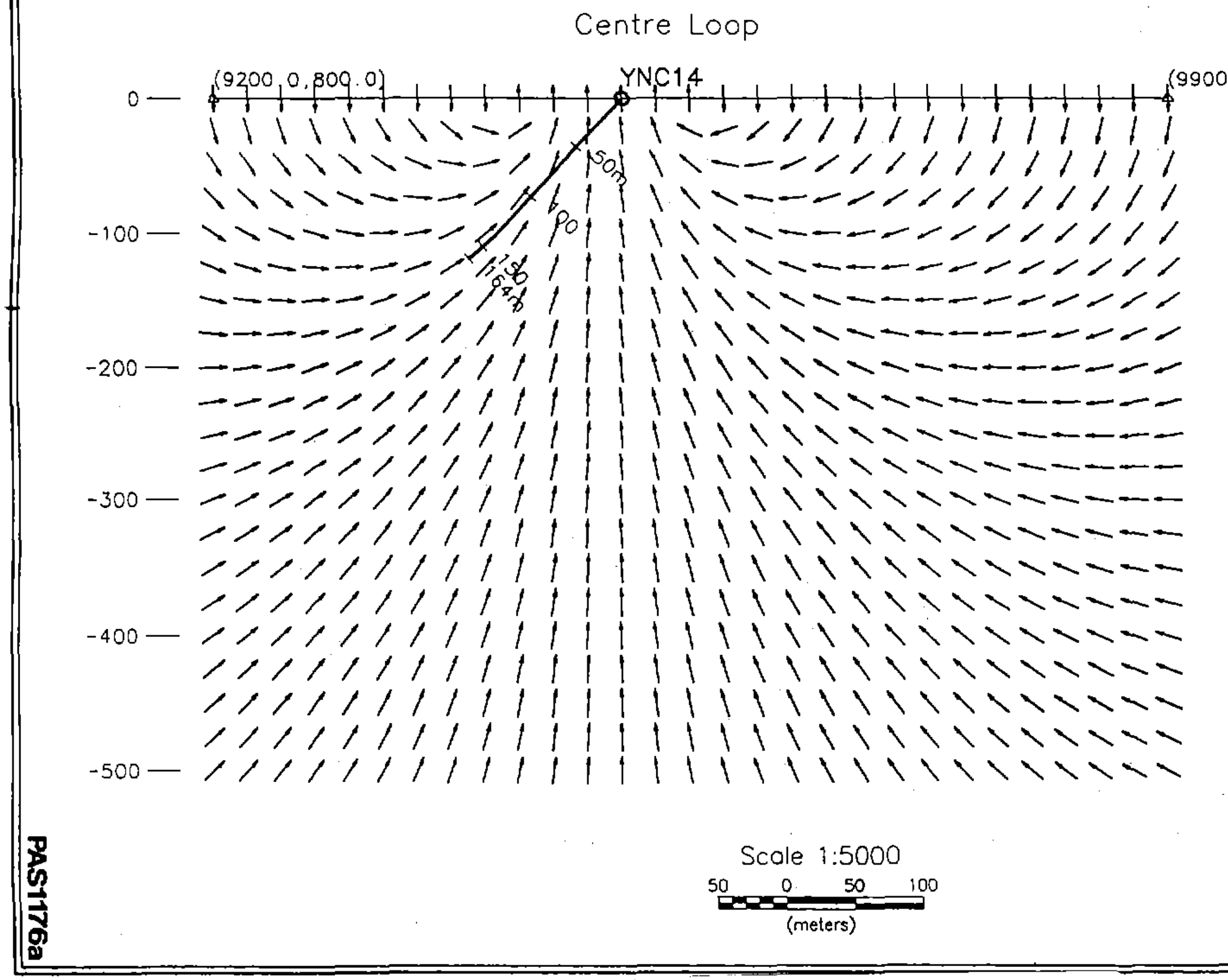
Survey Date: Apr 16, 1995

Outer–Rim Exploration Services

PAS1175a

78270

5 cm



Pasminco Exploration
Yolande

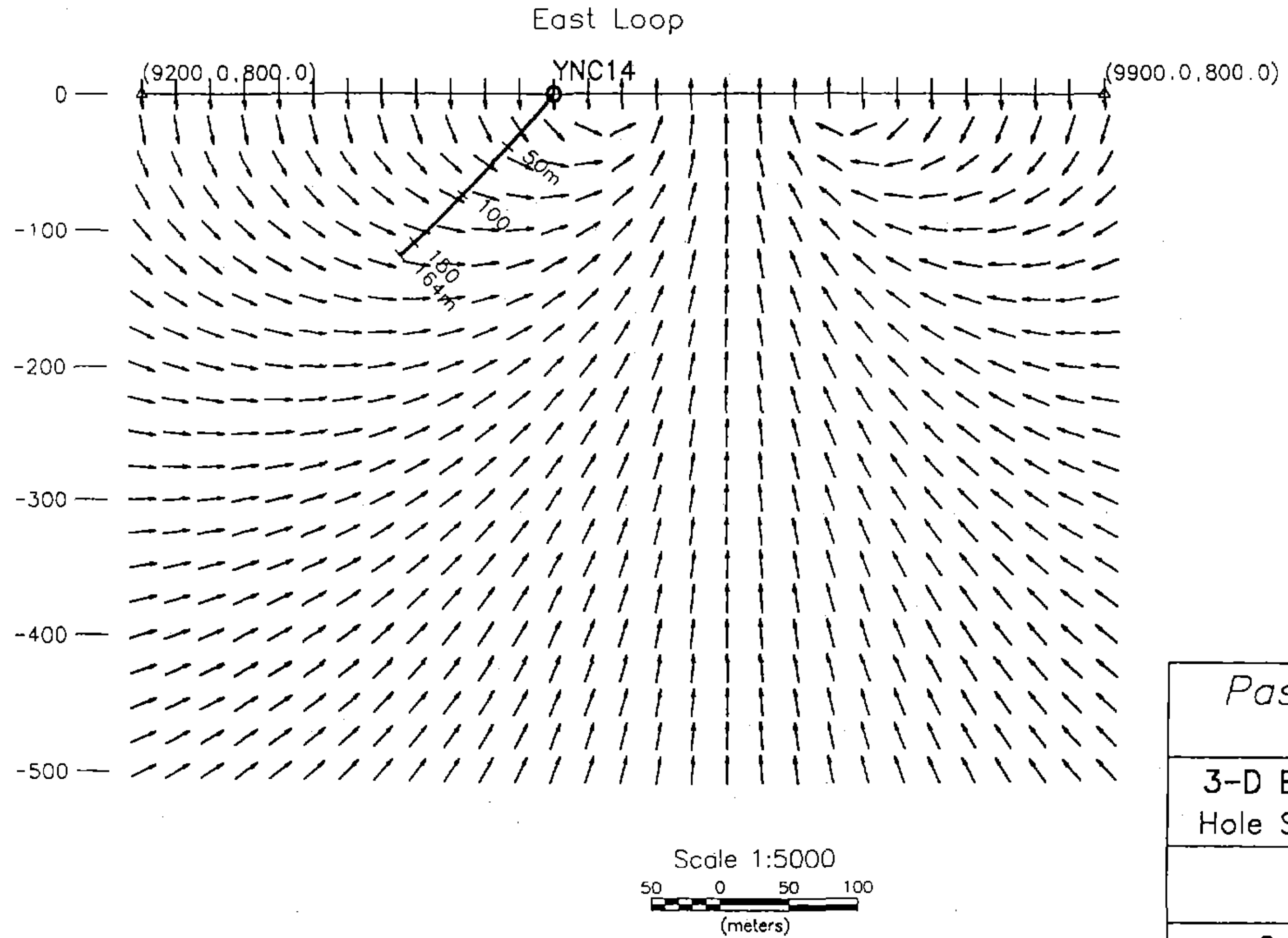
3-D Borehole Pulse EM Survey
Hole Section with Primary Field

Hole: YNC-14
Survey Date: Apr 16, 1995

Outer-Rim Exploration Services

5 cm

78227



Pasminco Exploration
Yolande

3-D Borehole Pulse EM Survey
Hole Section with Primary Field

Hole: YNC-14
Survey Date: Apr 16, 1995

Outer-Rim Exploration Services

PAS1176b

5 cm

78278

IONNLU

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

Client	: Pasminco Exploration	Hole	: YNC14
Grid	: Yolande	Tx Loop	: Collar
Date	: Apr 16, 1995	File name	: YNC14CZ.PEM
Time Base	: 20.00 ms	# Readings	: 20
Ramp Time	: 0.50 ms	Stn Units	: Metric
# Channels	: 20	Coil Area	: 6500 sq m
Sync Type	: Cable	Polarity	: +
Loop Size	: 150m X 100m	Receiver	: Digital #108
Current	: 10 Amps	Operator	: Kent Honner

Loop Coordinates (X,Y,Z)
1. 9550m, 730m, 0m
2. 9550m, 830m, 0m
3. 9425m, 830m, 0m
4. 9415m, 730m, 0m

Hole Coordinates (X,Y,Z) or (Azimuth,Dip,Length)
1. 9500m, 800m, 0m
2. 270deg, 48deg, 29m
3. 270deg, 48deg, 53m
4. 271.5deg, 47deg, 52m
5. 270deg, 42deg, 30m

Channel Times (usec)

Ch	Start	End	Center	Ch	Start	End	Center	Ch	Start	End	Center
PP	-198	-99	-149	1	76	104	90	2	104	131	117
3	131	171	151	4	171	225	198	5	225	292	259
6	292	378	335	7	378	490	434	8	490	639	565
9	639	828	733	10	828	1075	952	11	1075	1395	1235
12	1395	1809	1602	13	1809	2348	2078	14	2348	3046	2697
15	3046	3951	3498	16	3951	5121	4536	17	5121	6646	5884
18	6646	8617	7632	19	8617	11170	9894	20	11170	14490	12830

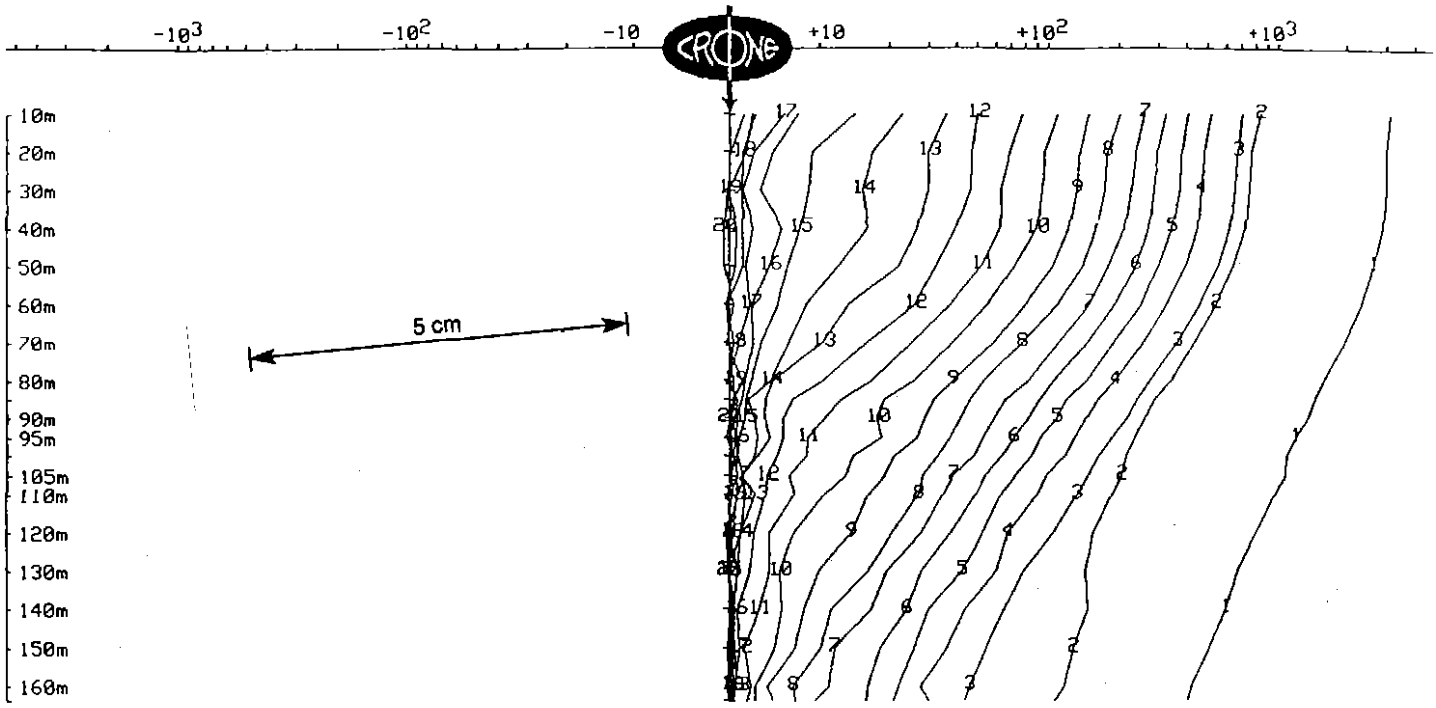
OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

782280

Client	: Pasminco Exploration	Hole	: YNC14
Grid	: Yolande	Tx Loop	: Collar
Date	: Apr 16, 1995	File name	: YNC14CZ.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2000



PAS1177a

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

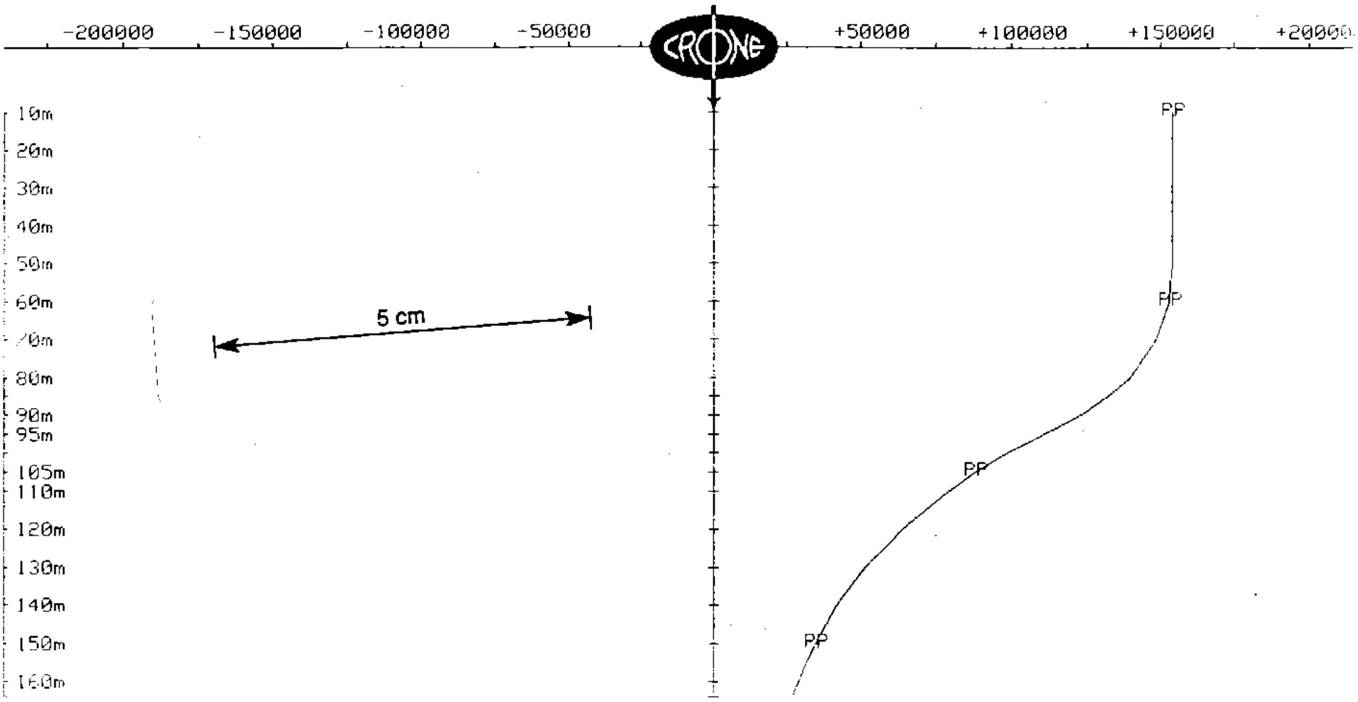
782281

Client : Pasminco Exploration
Grid : Yolande
Date : Apr 16, 1995

Hole : YNC14
Tx Loop : Collar
File name : YNC14CZ.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2000
Unit Scale: 1cm = 25000



PAS1177b

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

782282

Client	: Pasminco Exploration	Hole	: YNC14
Grid	: Yolande	Tx Loop	: East
Date	: Apr 16, 1995	File name	: YNC14EZ.PEM
Time Base	: 20.00 ms	# Readings	: 17
Ramp Time	: 0.50 ms	Stn Units	: Metric
# Channels	: 20	Coil Area	: 6500 sq m
Sync Type	: Cable	Polarity	: +
Loop Size	: 150m X 150m	Receiver	: Digital #108
Current	: 11 Amps	Operator	: Kent Honner

Loop Coordinates (X,Y,Z)

1. 9550m, 730m, 0m
2. 9630m, 710m, 0m
3. 9700m, 690m, 0m
4. 9700m, 830m, 0m
5. 9550m, 830m, 0m

Hole Coordinates (X,Y,Z) or (Azimuth,Dip,Length)

1. 9500m, 800m, 0m
2. 270deg, 48deg, 29m
3. 270deg, 48deg, 53m
4. 271.5deg, 47deg, 52m
5. 270deg, 42deg, 30m

Channel Times (usec)

Ch	Start	End	Center	Ch	Start	End	Center	Ch	Start	End	Center
PP	-198	-99	-149	1	76	104	90	2	104	131	117
3	131	171	151	4	171	225	198	5	225	292	259
6	292	378	335	7	378	490	434	8	490	639	565
9	639	828	733	10	828	1075	952	11	1075	1395	1235
12	1395	1809	1602	13	1809	2348	2078	14	2348	3046	2697
15	3046	3951	3498	16	3951	5121	4536	17	5121	6646	5884
18	6646	8617	7632	19	8617	11170	9894	20	11170	14490	12830

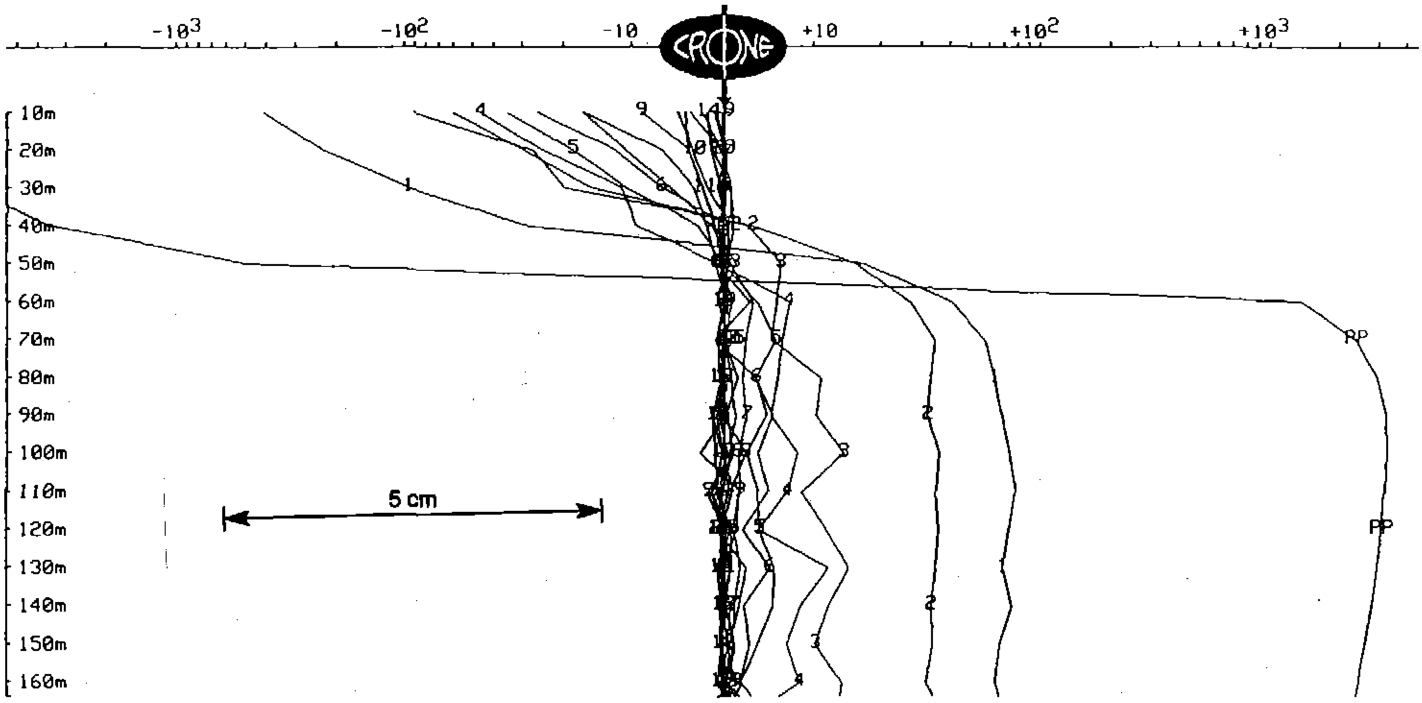
OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

782283

Client	: Pasminco Exploration	Hole	: YNC14
Grid	: Yolande	Tx Loop	: East
Date	: Apr 16, 1995	File name	: YNC14EZ.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2000



PAS1178a

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

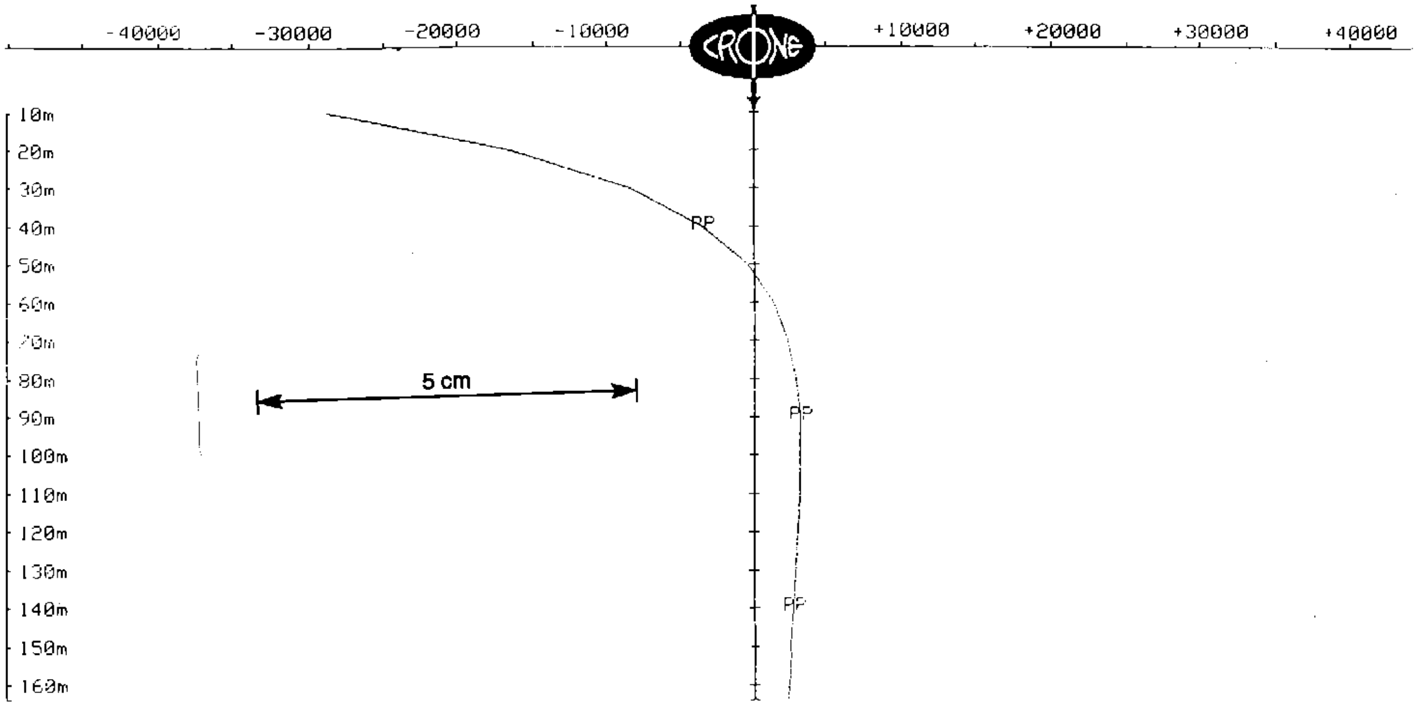
782284

Client	: **Pasminco Exploration**	Hole	: **YNC14**
Grid	: **Yolande**	Tx Loop	: **East**
Date	: Apr 16, 1995	File name	: YNC14EZ.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2000

Unit Scale: 1cm = 5000



PAS1178b

Appendix 10

Results of a Mobile Metal Ions Study, Newton Creek

782286

Report No. WAM-C-074b

REPORT TO: Pasminco Exploration

RESULTS OF A MOBILE METAL IONS STUDY,

at

Newton Creek

A.W. Mann

A.T. Mann

D.B. Humphries

J.L. Perdrix

Wamtech Pty. Ltd.

DATE: 1994 September 22

INTRODUCTION

"Mobile Metal Ions" is a term used to describe ions which have moved in the weathering zone and which are only weakly or loosely attached to surface soil particles. Studies from Australia and overseas have shown that such Mobile Metal Ions are useful in locating buried mineralization. Mobile Metal Ions are generally at very low concentrations in the soil. To successfully interpret these weak signals, a series of very carefully quality-controlled steps have been developed which, when put together, constitute an integrated package – the MMI Process.

Specially prepared and proprietary digests have been developed to "release" the adsorbed ions from the soil material. It has been found that there is an optimum leach solution for each metal. Consequently, a number of digestions are required on each sample. Digestions for all samples in the batch process are carried out under identical conditions. Results for the most effective digest are reported for each metal.

Analysis of the digest solutions for the target elements is undertaken using equipment and techniques that routinely operate at the parts per billion level. Rigorous quality control is undertaken to minimize cross contamination between samples.

With the aid of custom computer interpretation packages, the analysis results are integrated. For each element, a background and a peak to background ratio at each sample position (the Response Ratio) is calculated. The data may be presented as stacked bar charts, sectional (line) plots, or as coloured image plans. Where the data are presented as stacked bar charts:

1. Each element is represented as a unique colour.
2. The Response Ratio for each element at each sample point is shown as the height of that colour in the stacked bar at that location.
3. At a location which has a" background" response, each element has a bar height of one, and for a ten element survey the total bar height is therefore ten Response Ratio units.
4. For significant locations, one or more elements would be expected to show a Response Ratio of greater than two units.

BACKGROUND

Samples were supplied from the Newton Creek Prospect, which is a potential polymetallic (Cu-Pb-Zn-Ag) sulphide deposit in Tasmania. Minor mineralization has been intersected in drilling. The prospect is in volcanic rocks, overlain by glacially-derived grits and peaty soils. The previous success of the MMI technique in similar environments in Scotland, led to the confidence, that the technique may prove useful in the present case.

GEOCHEMICAL PROGRAMME

Two lines of samples, at 20-m spacings and 400 m apart were supplied, comprising a total of 22 samples in all. The samples were analyzed for Cu, Pb, Zn, Ni, Cd, Au, Ag, Pt, and Pd following digestion in the proprietary MMI Process digestants.

782290

RESULTS

The Response Ratios for each element are given in Table 1. These results are presented graphically for each traverse in Figures 1 and 2.

782291

DISCUSSION

Both traverses show MMI Response Ratio changes for Cu, Zn, and Pb, although to different degrees. Line 1 (Figure 1), 5360000N, has a broad multi-element response zone, with subdued Response Ratio elevations for Zn and Pb in all but the outermost – presumably background – samples NC38619 and NC38608. Line 2, shown in Figure 2, shows far greater increases in Response Ratio (Particularly for Cu and Pb) in the centre of the traverse over 100 m in samples NC38624 to NC38628. The sharp increase here is more typical of an MMI response over buried sulphides.

It is not known to the authors at this time, whether or not there are good geological and mineralogical reasons for the increased response ratios on Line 2. Providing there was no major change in the type of material sampled on the two lines, we would suggest that it does relate to sub-surface concentrations of thses elements in sulphide form.

782292

NEWTON CREEK

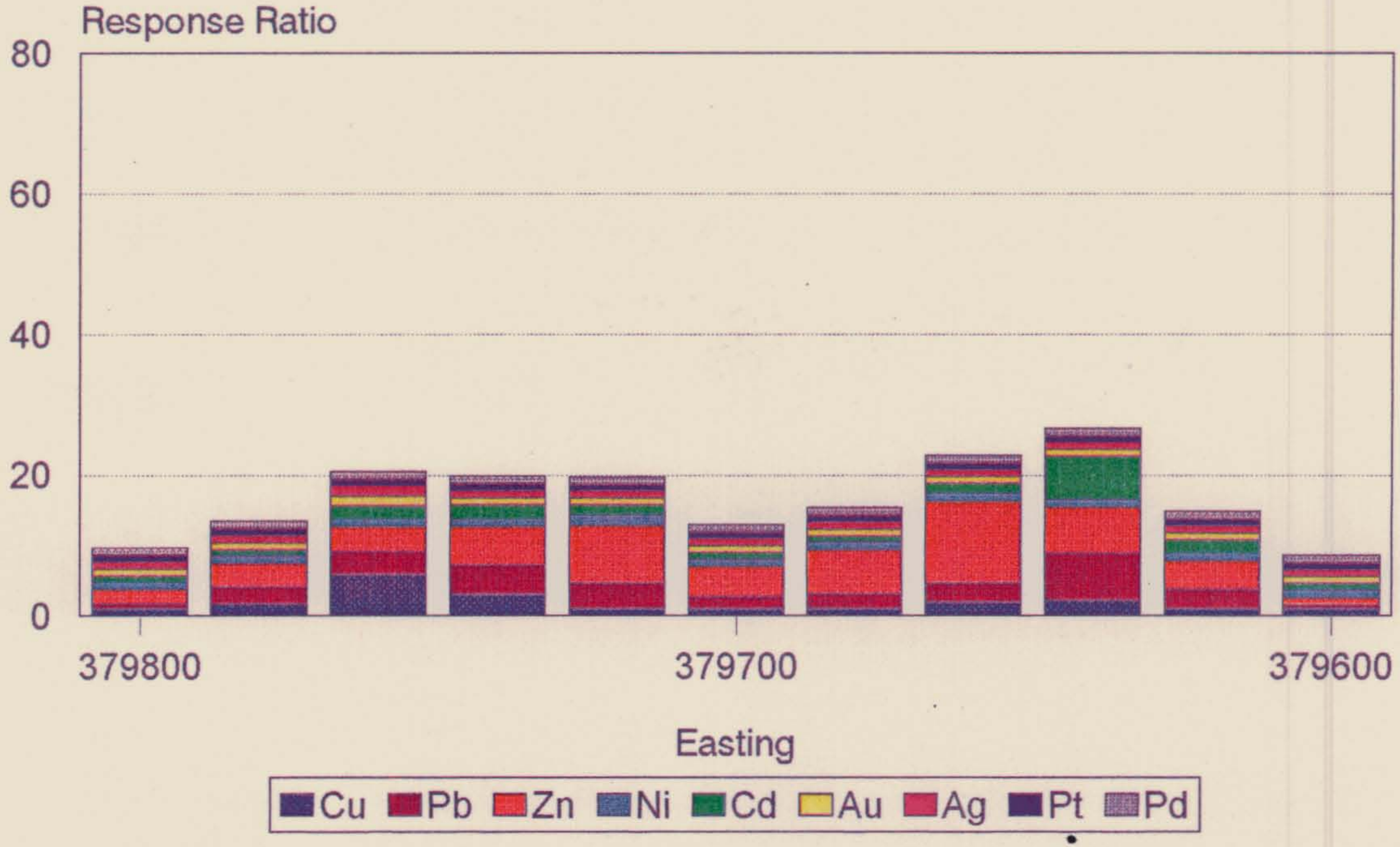
Table 1. MMI Response Ratios

Sample No.	Easting	Northing	Cu	Pb	Zn	Ni	Cd	Au	Ag	Pt	Pd
NC38608	379800	5360000	1.00	0.60	2.04	1.00	1.00	1.00	1.00	1.00	1.00
NC38609	379780	5360000	1.61	2.46	3.31	1.00	1.00	1.00	1.00	1.00	1.00
NC38610	379760	5360000	5.81	3.20	3.59	1.00	2.01	1.43	1.43	1.00	1.00
NC38611	379740	5360000	3.03	4.16	5.41	1.00	2.16	1.00	1.00	1.00	1.00
NC38612	379720	5360000	1.00	3.58	8.19	1.43	1.52	1.00	1.00	1.00	1.00
NC38613	379700	5360000	1.00	1.62	4.32	1.00	1.00	1.00	1.00	1.00	1.00
NC38614	379680	5360000	1.00	2.00	6.29	1.00	1.00	1.00	1.00	1.00	1.00
NC38615	379660	5360000	1.94	2.63	11.68	1.00	1.52	1.00	1.00	1.00	1.00
NC38617	379640	5360000	2.11	6.64	6.64	1.00	6.23	1.00	1.00	1.00	1.00
NC38618	379620	5360000	1.00	2.63	4.12	1.00	2.03	1.00	1.00	1.00	1.00
NC38619	379600	5360000	1.00	0.56	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NC38620	380000	5359400	1.00	0.81	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NC38621	379980	5359400	4.51	8.71	4.82	1.00	2.52	1.00	1.43	1.00	1.00
NC38622	379960	5359400	4.20	3.74	4.65	1.00	1.86	1.00	1.00	1.00	1.00
NC38623	379940	5359400	1.00	1.41	3.60	1.00	1.00	4.29	1.00	1.00	1.00
NC38624	379920	5359400	34.31	24.44	1.00	1.00	1.00	1.00	1.00	1.00	1.00
NC38625	379900	5359400	41.98	14.36	1.00	1.00	1.56	1.00	1.00	1.00	1.00
NC38627	379880	5359400	55.66	10.39	1.00	2.86	1.00	1.43	1.00	1.00	2.86
NC38628	379860	5359400	16.71	18.95	9.43	1.00	4.56	1.43	1.00	1.00	1.00
NC38629	379840	5359400	3.78	3.85	6.12	1.00	2.31	1.00	1.00	1.00	1.00
NC38630	379820	5359400	4.04	6.84	7.18	1.00	2.13	2.86	1.00	1.00	1.00
NC38631	379800	5359400	9.28	6.42	5.61	1.00	1.00	1.00	1.00	1.00	1.00
B/GROUND	N/A	N/A	7.00	159.04	70.00	14.00	7.00	0.70	0.70	0.70	0.70

782293

Newton Creek Prospect

Line 5360000 N



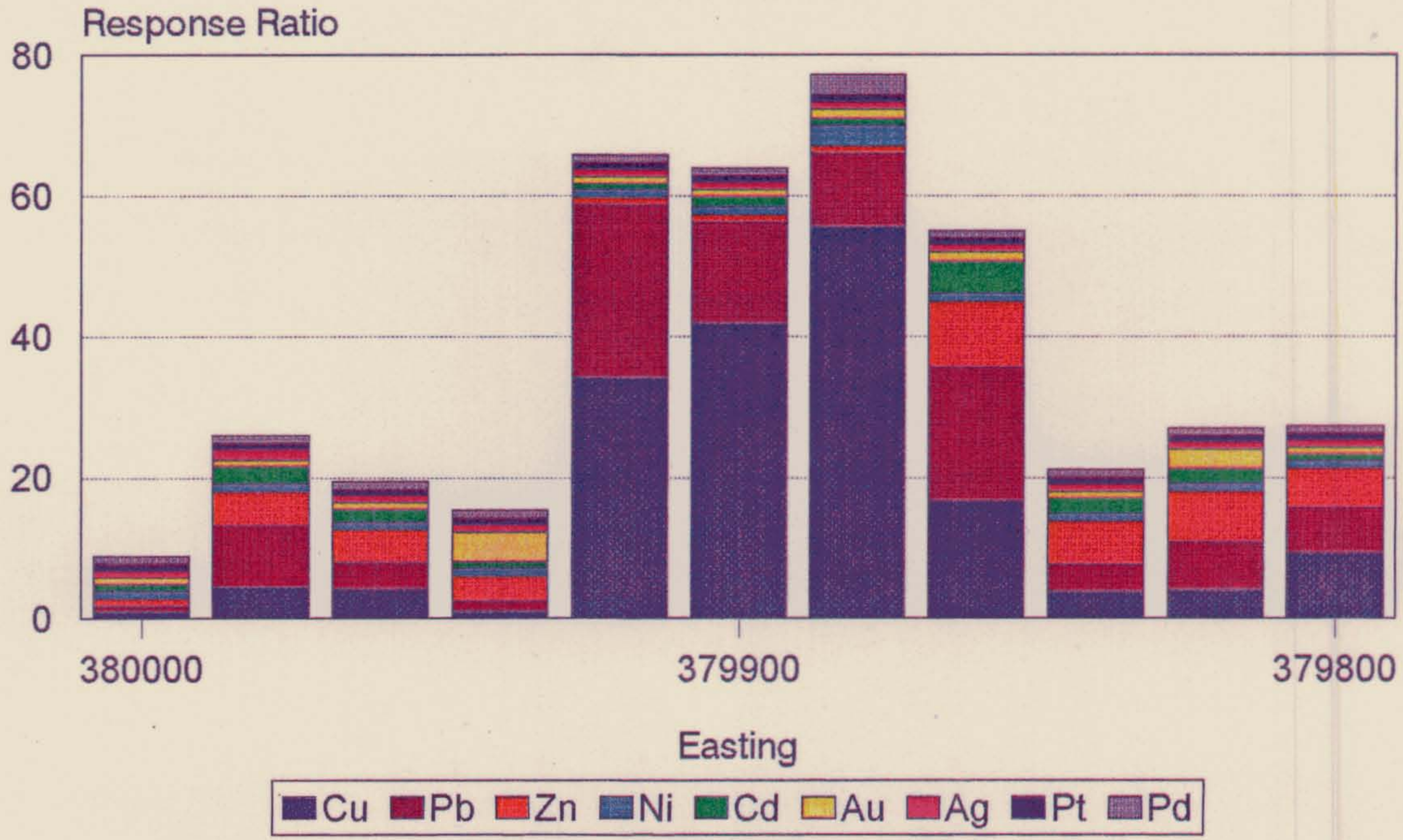
Wamtech Pty. Ltd.

Figure 1

Newton Creek Prospect

782294

Line 5359400 N



Wamtech Pty. Ltd.

Figure 2

782295

PASMINCO EXPLORATION

YOLANDE EL 11/85
JOINT VENTURE

ANNUAL & FINAL REPORT
AUGUST 1985 - AUGUST 1995

Volume 2 of 2

AUTHOR: PM Quayle

DATE: August 1995

REPORT No.: T95-9

SUBMITTED TO: Regional Exploration Manager - Tasmania

DISTRIBUTION: Tasmania Development & Resources Industry Safety & Mines Division - Hobart

Pasminco Exploration - Burnie
- Melbourne

Australian Resources - Perth
- Sydney

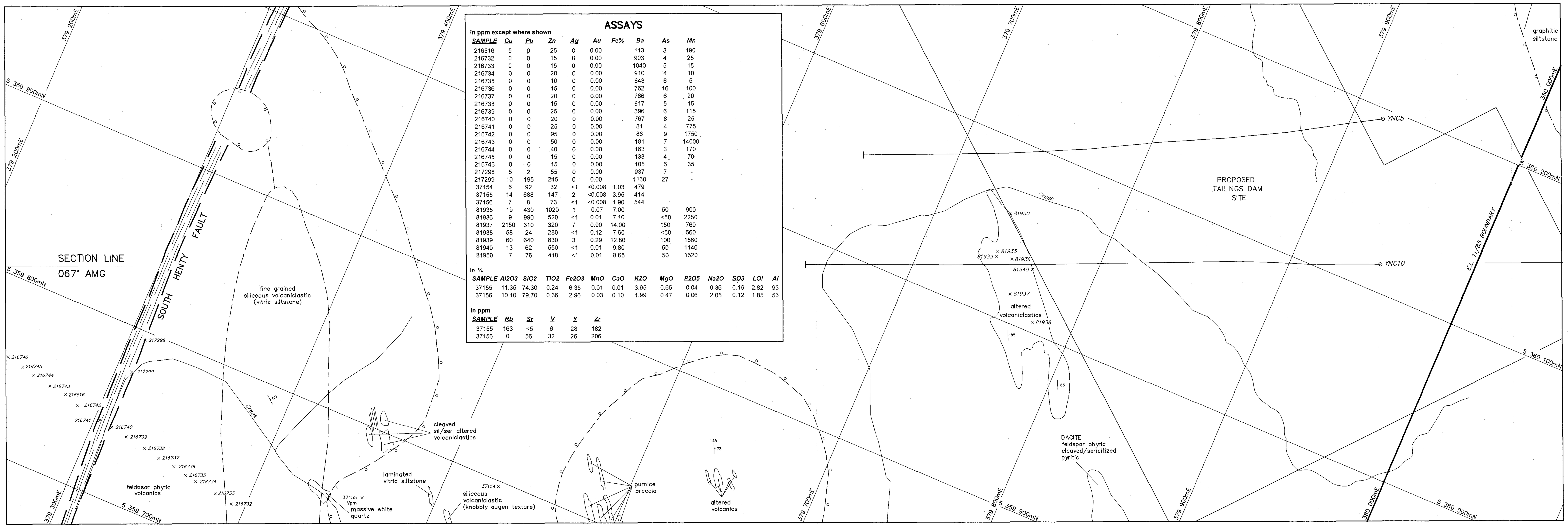
North Limited - Melbourne

SUBMITTED BY: M. Quayle

ACCEPTED BY:

BURNIE
September
1995

FIGURES



ASSAYS

In ppm except where shown

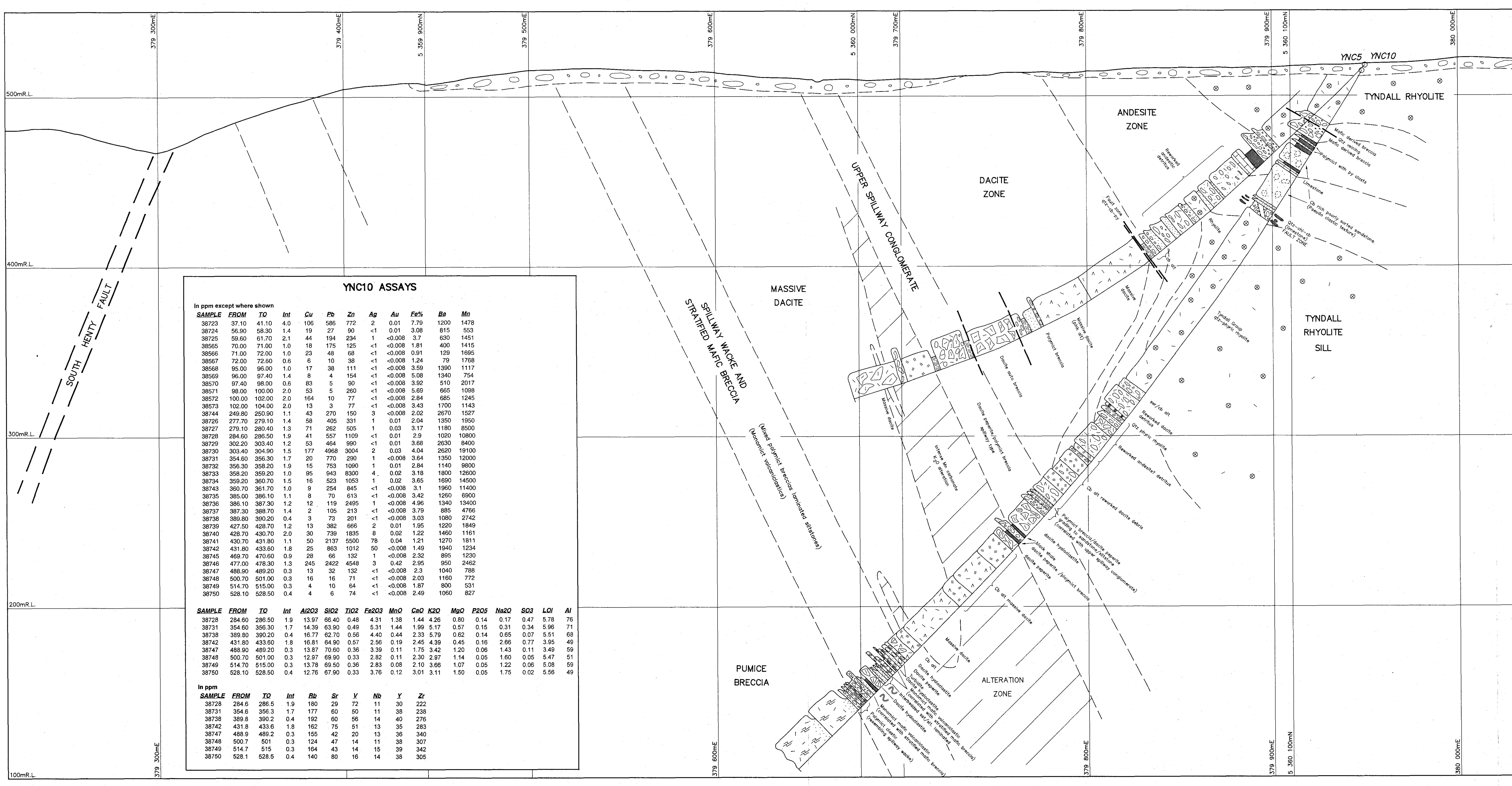
SAMPLE	Cu	Pb	Zn	Ag	Au	Fe%	Ba	As	Mn
216516	5	0	25	0	0.00		113	3	190
216732	0	0	15	0	0.00		903	4	25
216733	0	0	15	0	0.00		1040	5	15
216734	0	0	20	0	0.00		910	4	10
216735	0	0	10	0	0.00		848	6	5
216736	0	0	15	0	0.00		762	16	100
216737	0	0	20	0	0.00		766	6	20
216738	0	0	15	0	0.00		817	5	15
216739	0	0	25	0	0.00		396	6	115
216740	0	0	20	0	0.00		767	8	25
216741	0	0	25	0	0.00		81	4	775
216742	0	0	95	0	0.00		86	9	1750
216743	0	0	50	0	0.00		181	7	14000
216744	0	0	40	0	0.00		163	3	170
216745	0	0	15	0	0.00		133	4	70
216746	0	0	15	0	0.00		105	6	35
217298	5	2	55	0	0.00		937	7	-
217299	10	195	245	0	0.00		1130	27	-
37154	6	92	32	<1	<0.008	1.03	479		
37155	14	688	147	2	<0.008	3.95	414		
37156	7	8	73	<1	<0.008	1.90	544		
81935	19	430	1020	1	0.07	7.00		50	900
81936	9	990	520	<1	0.01	7.10		<50	2250
81937	2150	310	320	7	0.90	14.00		150	760
81938	58	24	280	<1	0.12	7.60		<50	660
81939	60	640	830	3	0.29	12.80		100	1560
81940	13	62	550	<1	0.01	9.80		50	1140
81950	7	76	410	<1	0.01	8.65		50	1620

In %

SAMPLE	Al2O3	SiO2	TiO2	Fe2O3	MnO	CaO	K2O	MgO	P2O5	Na2O	SO3	LOI	Al
37155	11.35	74.30	0.24	6.35	0.01	0.01	3.95	0.65	0.04	0.36	0.16	2.82	93
37156	10.10	79.70	0.36	2.96	0.03	0.10	1.99	0.47	0.06	2.05	0.12	1.85	53

In ppm

SAMPLE	Rb	Sr	V	Y	Zr
37155	163	<5	6	28	182
37156	0	56	32	26	206



YNC10 ASSAYS

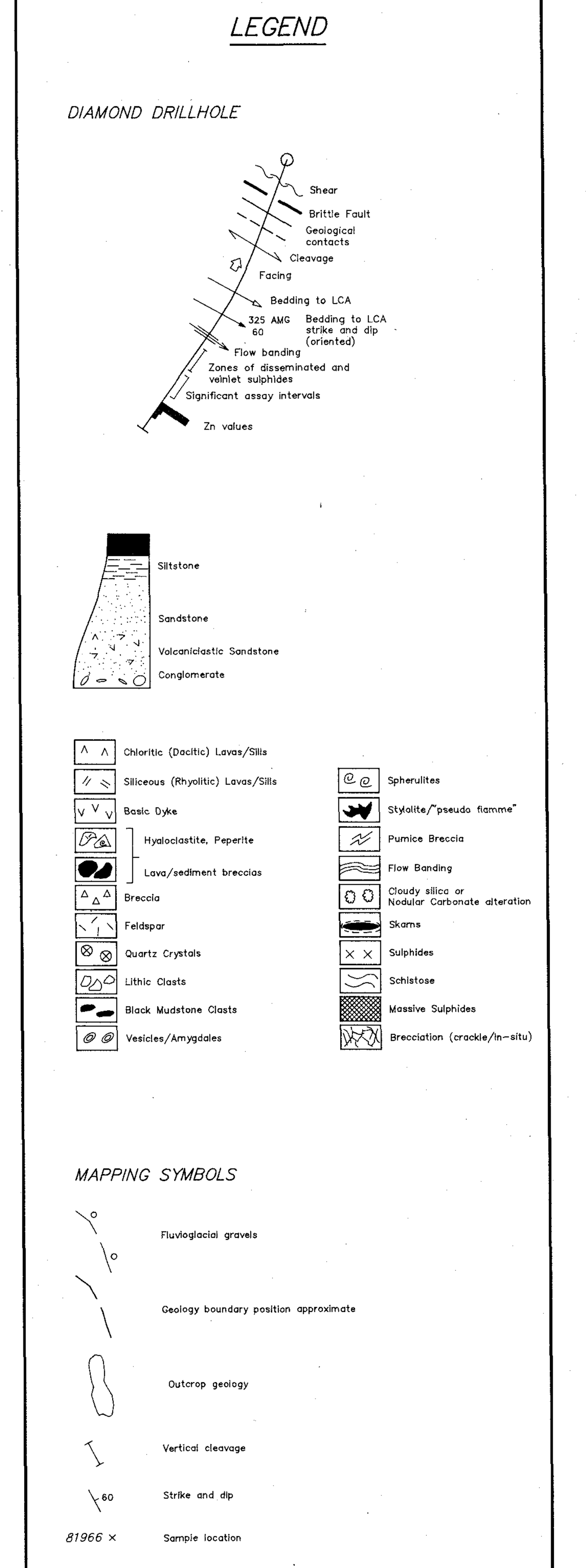
In ppm except where shown

SAMPLE	FROM	TO	Int	Cu	Pb	Zn	Ag	Au	Fe%	Ba	Mn
38723	37.10	41.10	4.0	106	586	772	2	0.01	7.79	1200	1478
38724	56.90	58.30	1.4	19	27	90	<1	0.01	3.08	815	553
38725	59.60	61.70	2.1	44	194	234	1	<0.008	3.7	630	1451
38565	70.00	71.00	1.0	18	175	125	<1	<0.008	1.81	400	1415
38566	71.00	72.00	1.0	23	48	68	<1	<0.008	0.91	129	1695
38567	72.00	72.60	0.6	6	10	38	<1	<0.008	1.24	79	1768
38568	95.00	96.00	1.0	17	38	111	<1	<0.008	3.59	1390	1117
38569	96.00	97.40	1.4	8	4	154	<1	<0.008	5.08	1340	754
38570	97.40	98.00	0.6	83	5	90	<1	<0.008	3.92	510	2017
38571	98.00	100.00	2.0	53	5	260	<1	<0.008	5.69	665	1098
38572	100.00	102.00	2.0	164	10	77	<1	<0.008	2.84	685	1245
38573	102.00	104.00	2.0	13	3	77	<1	<0.008	3.43	1700	1143
38744	249.80	250.90	1.1	43	270	150	3	<0.008	2.02	2670	1527
38726	277.70	279.10	1.4	58	405	331	1	0.01	2.04	1350	1950
38727	279.10	280.40	1.3	71	262	505	1	0.03	3.17	1180	8500
38728	284.60	286.50	1.9	41	557	1109	<1	0.01	2.9	1020	10800
38729	302.20	303.40	1.2	53	464	990	<1	0.01	3.68	2630	8400
38730	303.40	304.90	1.5	177	4968	3004	2	0.03	4.04	2620	19100
38731	354.60	356.30	1.7	20	770	290	1	<0.008	3.64	1350	12000
38732	356.30	358.20	1.9	15	753	1090	1	0.01	2.84	1140	9800
38733	358.20	359.20	1.0	95	943	8300	4	0.02	3.18	1800	12600
38734	359.20	360.70	1.5	16	523	1053	1	0.02	3.65	1690	14500
38743	360.70	361.70	1.0	9	254	845	<1	<0.008	3.1	1960	11400
38735	385.00	386.10	1.1	8	70	613	<1	<0.008	3.42	1260	6900
38736	386.10	387.30	1.2	12	119	2495	1	<0.008	4.96	1340	13400
38737	387.30	388.70	1.4	2	105	213	<1	<0.008	3.79	885	4766
38738	389.80	390.20	0.4	3	73	201	<1	<0.008	3.03	1080	2742
38739	427.50	428.70	1.2	13	382	666	2	0.01	1.95	1220	1849
38740	428.70	430.70	2.0	30	739	1835	8	0.02	1.22	1460	1161
38741	430.70	431.80	1.1	50	2137	5500	78	0.04	1.21	1270	1811
38742	431.80	433.60	1.8	25	863	1012	50	<0.008	1.49	1940	1234
38745	469.70	470.60	0.9	28	66	132	1	<0.008	2.32	895	1230
38746	477.00	478.30	1.3	245	2422	4548	3	0.42	2.95	950	2462
38747	488.90	489.20	0.3	13	32	132	<1	<0.008	2.3	1040	788
38748	500.70	501.00	0.3	16	16	71	<1	<0.008	2.03	1160	772
38749	514.70	515.00	0.3	4	10	64	<1	<0.008	1.87	800	531
38750	528.10	528.50	0.4	4	6	74	<1	<0.008	2.49	1060	827

SAMPLE	FROM	TO	Int	Al2O3	SiO2	TiO2	Fe2O3	MnO	CaO	K2O	MgO	P2O5	Na2O	SO3	LOI	Al
38728	284.60	286.50	1.9	13.97	66.40	0.48	4.31	1.38	1.44	4.26	0.80	0.14	0.17	0.47	5.78	76
38731	354.60	356.30	1.7	14.39	63.90	0.49	5.31	1.44	1.99	5.17	0.57	0.15	0.31	0.34	5.96	71
38738	389.80	390.20	0.4	16.77	62.70	0.56	4.40	0.44	2.33	5.79	0.62	0.14	0.65	0.07	5.51	68
38742	431.80	433.60	1.8	16.81	64.90	0.57	2.56	0.19	2.45	4.39	0.45	0.16	2.66	0.77	3.95	49
38747	488.90	489.20	0.3	13.87	70.60	0.36	3.39	0.11	1.75	3.42	1.20	0.06	1.43	0.11	3.49	59
38748	500.70	501.00	0.3	12.97	69.90	0.33	2.82	0.11	2.30	2.97	1.14	0.05	1.60	0.05	5.47	51
38749	514.70	515.00	0.3	13.78	69.50	0.36	2.83	0.08	2.10	3.66	1.07	0.05	1.22	0.06	5.08	59
38750	528.10	528.50	0.4	12.76	67.90	0.33	3.76	0.12	3.01	3.11	1.50	0.05	1.75	0.02	5.56	49

In ppm

SAMPLE	FROM	TO	Int	Rb	Sr	V	Nb	Y	Zr
38728	284.6	286.5	1.9	180	29	72	11	30	222
38731	354.6	356.3	1.7	177	60	50	11	38	238
38738	389.8	390.2	0.4	192	60	56	14	40	276
38742	431.8	433.6	1.8	162	75	51	13	35	283
38747	488.9	489.2	0.3	155	42	20	13	36	340
38748	500.7	501	0.3	124	47	14	11	38	307
38749	514.7	515	0.3	164	43	14	15	39	342
38750	528.1	528.5	0.4	140	80	16	14	38	305



782297

5 cm

95-3754

YOLANDE JOINT VENTURE EL
11/85 ANNUAL REPORT 1994-95
QUAYLE P PASMINCO VOL 1/2 2/2

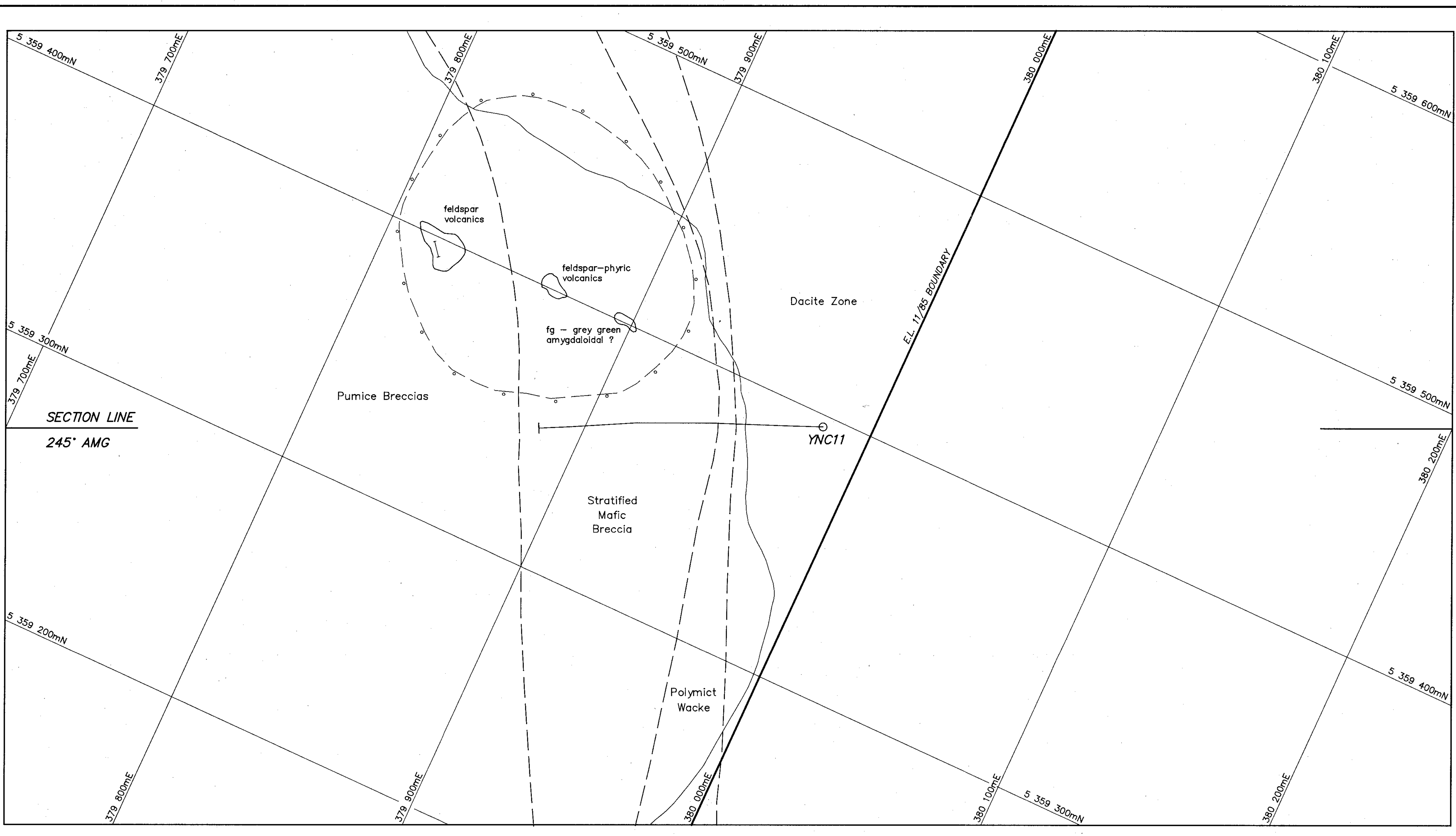
PASMINCO EXPLORATION
A Division of Pasminco Australia Limited

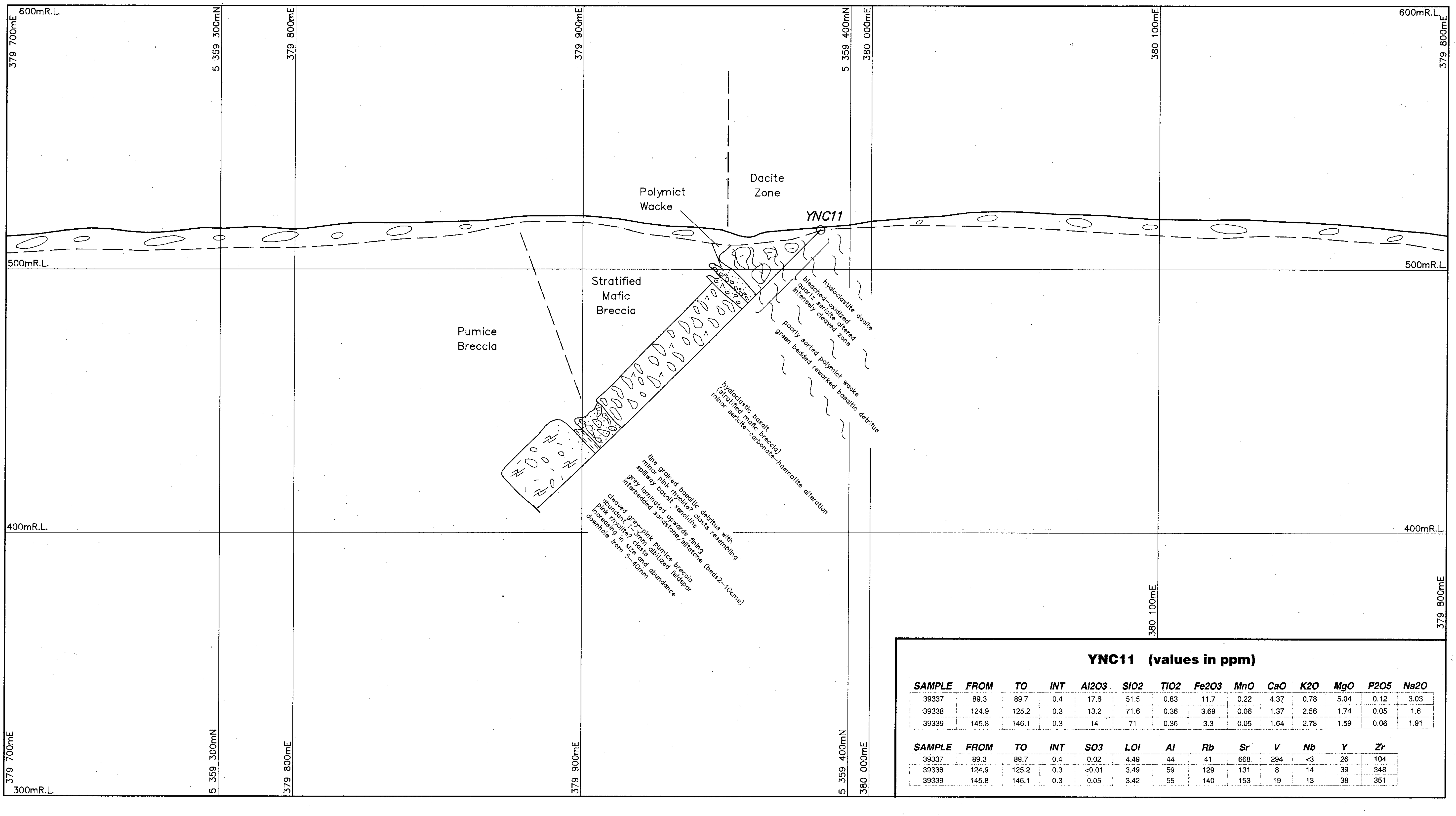
COMPILED : P.M.Q.
DATE : Dec., 1994
DRAWN : G.M.B.
REVISIONS :
FILE : YNC10_A0
DRAWING No.

E.L. 11/85 – YOLANDE
NEWTON CREEK
DRILL SECTION
YNC10
067° AMG

SCALE 1:1000 0 20 40 m

FIG. No. 5



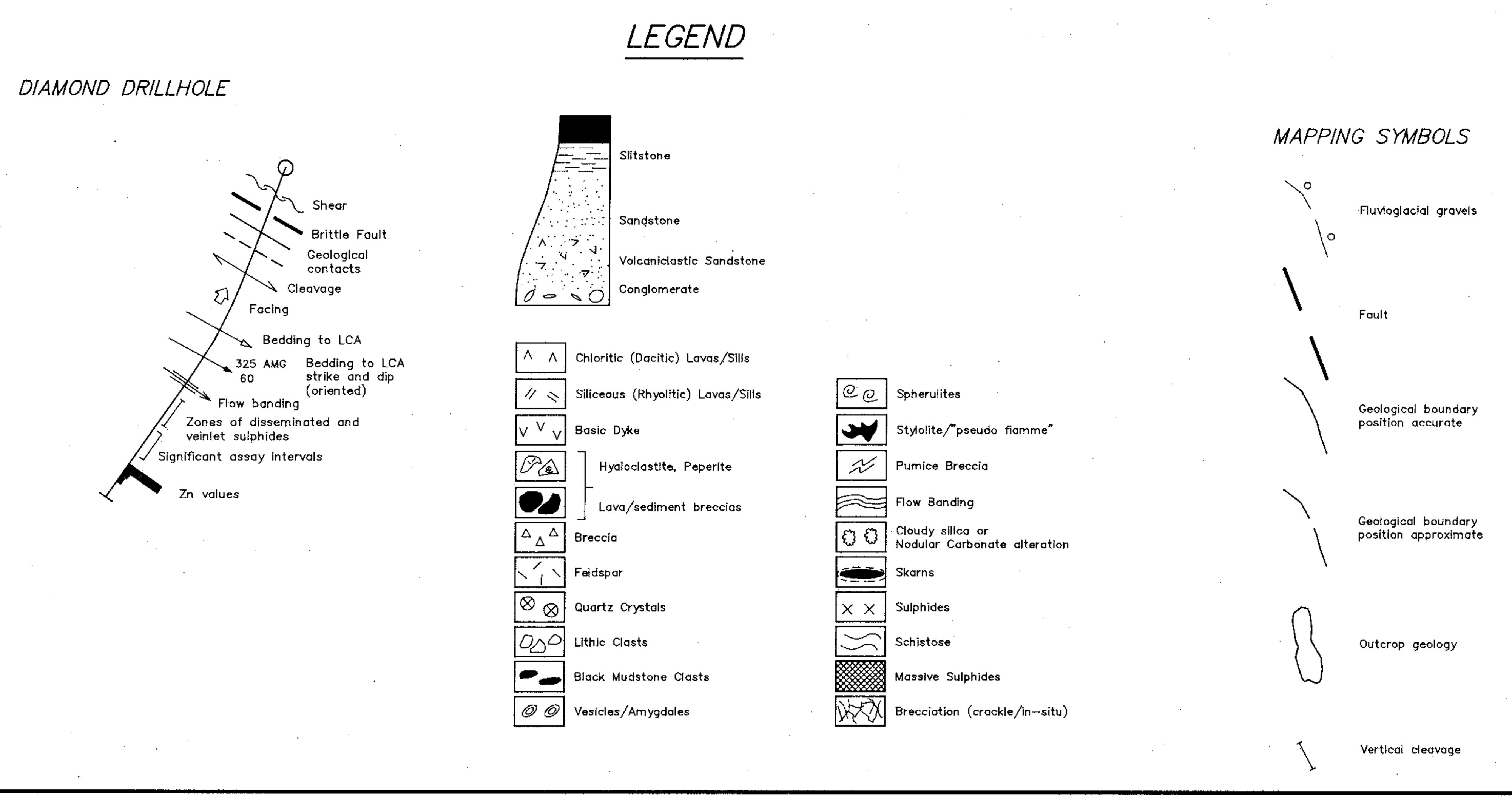


YNC11 (values in ppm)

SAMPLE	FROM	TO	INT	Al2O3	SiO2	TiO2	Fe2O3	MnO	CaO	K2O	MgO	P2O5	Na2O
39337	89.3	89.7	0.4	17.6	51.5	0.83	11.7	0.22	4.37	0.78	5.04	0.12	3.03
39338	124.9	125.2	0.3	13.2	71.6	0.36	3.69	0.06	1.37	2.56	1.74	0.05	1.6
39339	145.8	146.1	0.3	14	71	0.36	3.3	0.05	1.64	2.78	1.59	0.06	1.91

SAMPLE	FROM	TO	INT	SO3	LOI	Al	Rb	Sr	V	Nb	Y	Zr
39337	89.3	89.7	0.4	0.02	4.49	44	41	668	294	<3	26	104
39338	124.9	125.2	0.3	<0.01	3.49	59	129	131	8	14	39	348
39339	145.8	146.1	0.3	0.05	3.42	55	140	153	19	13	38	351

LEGEND



782298

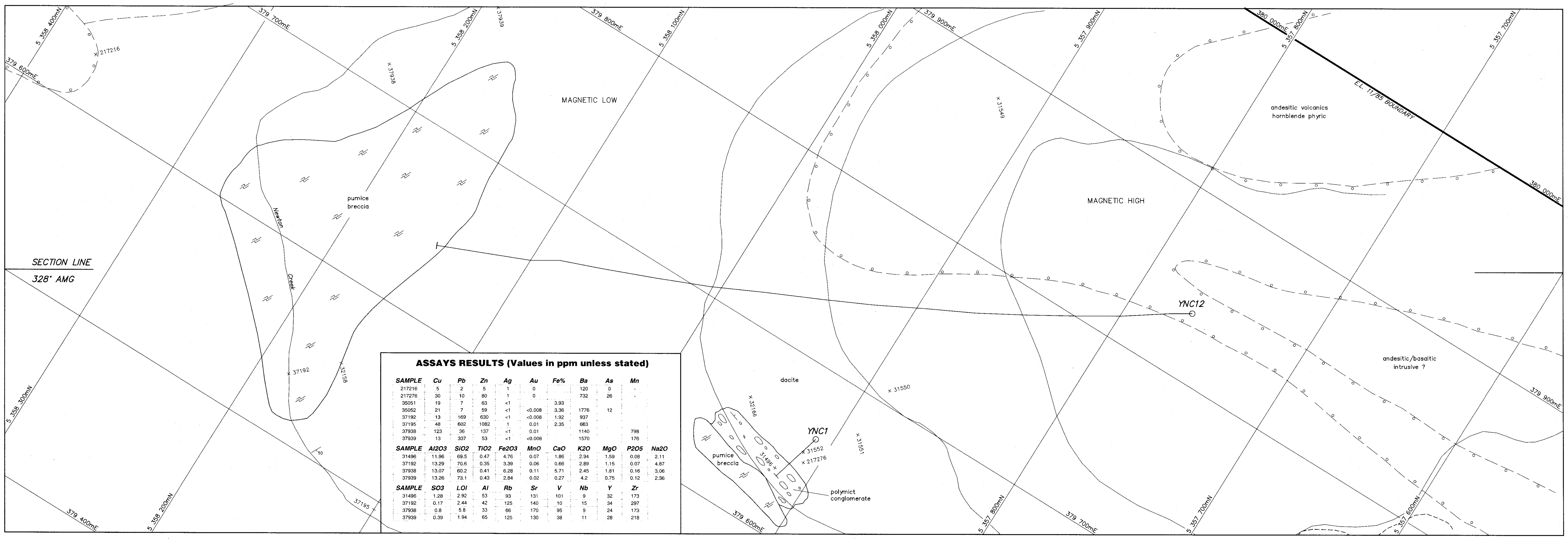
5 cm

95-3754

YOLANDE JOINT VENTURE EL 11/85 ANNUAL REPORT 1994-95
QUAYLE P PASMINCO VOL 1/2 2/2

PASMINCO EXPLORATION
A Division of Pasminco Australia Limited

COMPILED : P.M.Q.	E.L. 11/85 – YOLANDE JV
DATE : July 1995	NEWTON CREEK
DRAWN : G.M.B.	DRILL SECTION
REVISIONS :	**YNC11**
FILE : YNC11_A1	245° AMG
DRAWING No.	SCALE 1:1000 0 20 40 m — FIG. No. 6

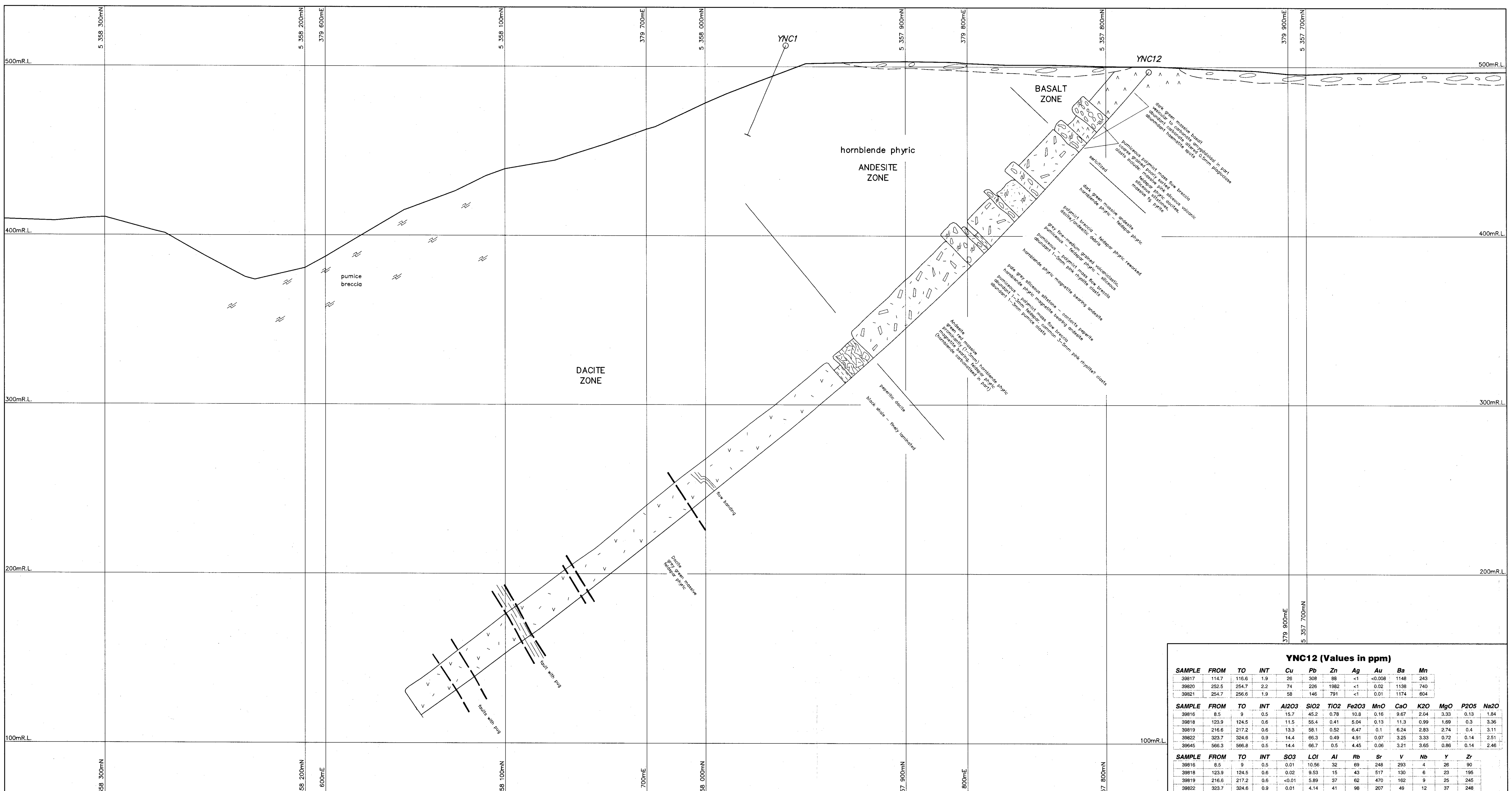


ASSAYS RESULTS (Values in ppm unless stated)

SAMPLE	Cu	Pb	Zn	Ag	Au	Fe%	Ba	As	Mn
217216	5	2	5	1	0		120	0	-
217276	30	10	80	1	0		732	26	-
35051	19	7	63	<1		3.93			
35052	21	7	59	<1	<0.008	3.36	1776	12	
37192	13	169	630	<1	<0.008	1.92	937		
37195	48	602	1082	1	0.01	2.35	663		
37938	123	36	137	<1	0.01		1140		798
37939	13	337	53	<1	<0.008		1570		176

SAMPLE	Al2O3	SiO2	TiO2	Fe2O3	MnO	CaO	K2O	MgO	P2O5	Na2O
31496	11.96	69.5	0.47	4.76	0.07	1.86	2.94	1.59	0.08	2.11
37192	13.29	70.6	0.35	3.39	0.06	0.66	2.89	1.15	0.07	4.87
37938	13.07	60.2	0.41	6.28	0.11	5.71	2.45	1.81	0.16	3.06
37939	13.26	73.1	0.43	2.84	0.02	0.27	4.2	0.75	0.12	2.36

SAMPLE	SO3	LOI	Al	Rb	Sr	V	Nb	Y	Zr
31496	1.28	2.92	53	93	131	101	9	32	173
37192	0.17	2.44	42	125	140	10	15	34	297
37938	0.8	5.8	33	66	170	95	9	24	173
37939	0.39	1.94	65	125	130	38	11	28	218

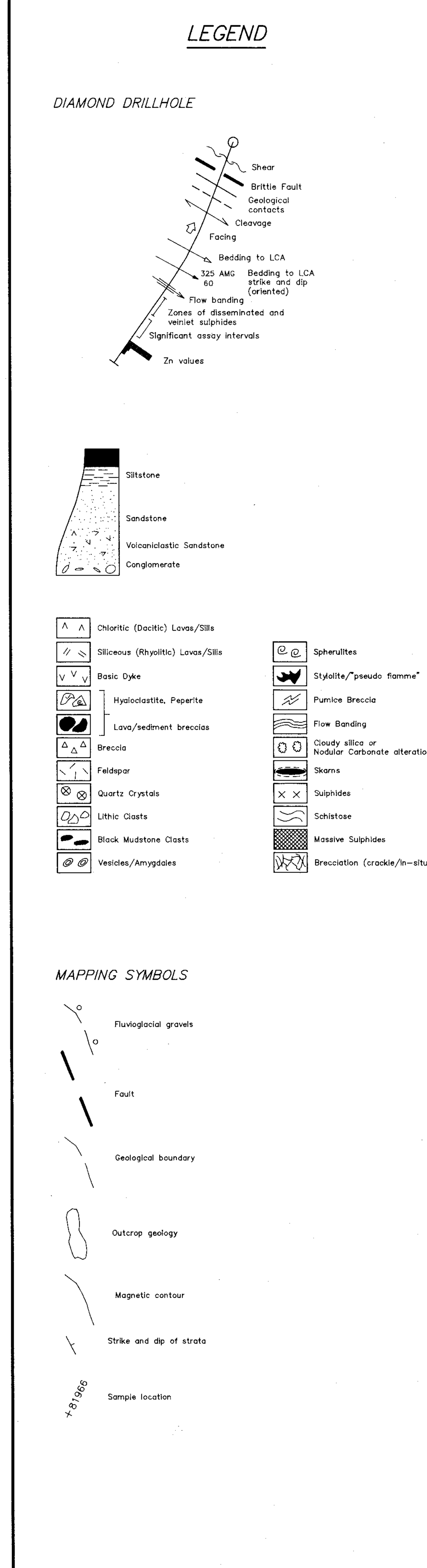


YNC12 (Values in ppm)

SAMPLE	FROM	TO	INT	Cu	Pb	Zn	Ag	Au	Ba	Mn
39817	114.7	116.6	1.9	26	308	88	<1	<0.008	1148	243
39820	252.5	254.7	2.2	74	226	1982	<1	0.02	1138	740
39821	254.7	256.6	1.9	58	146	791	<1	0.01	1174	604

SAMPLE	FROM	TO	INT	Al2O3	SiO2	TiO2	Fe2O3	MnO	CaO	K2O	MgO	P2O5	Na2O
39816	8.5	9	0.5	15.7	45.2	0.78	10.8	0.16	9.67	2.04	3.33	0.13	1.84
39818	123.9	124.5	0.6	11.5	55.4	0.41	5.04	0.13	11.3	0.99	1.69	0.3	3.36
39819	216.6	217.2	0.6	13.3	58.1	0.52	6.47	0.1	6.24	2.83	2.74	0.4	3.11
39822	323.7	324.6	0.9	14.4	66.3	0.49	4.91	0.07	3.25	3.33	0.72	0.14	2.51
39645	566.3	566.8	0.5	14.4	66.7	0.5	4.45	0.06	3.21	3.65	0.86	0.14	2.46

SAMPLE	FROM	TO	INT	SO3	LOI	Al	Rb	Sr	V	Nb	Y	Zr
39816	8.5	9	0.5	0.01	10.56	32	69	248	293	4	26	90
39818	123.9	124.5	0.6	0.02	9.53	15	43	517	130	6	23	195
39819	216.6	217.2	0.6	<0.01	5.89	37	62	470	162	9	25	245
39822	323.7	324.6	0.9	0.01	4.14	41	98	207	49	12	37	248
39645	566.3	566.8	0.5	0.17	4.12	44	113	178	47	10	33	229



782299

5 cm

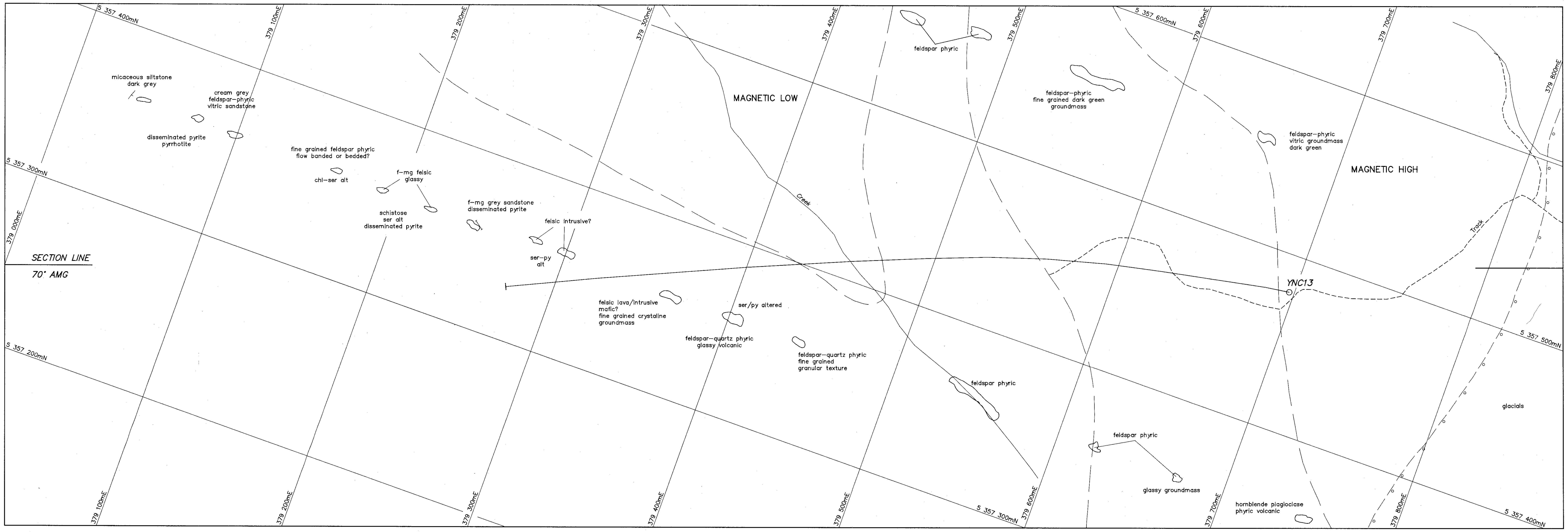
95-3754

YOLANDE JOINT VENTURE EL
11/85 ANNUAL REPORT 1994-95
QUAYLE P PASMINCO VOL 1/2 2/2

PASMINCO EXPLORATION
A Division of Pasminco Australia Limited

COMPILED : P.M.Q.	E.L. 11/85 – YOLANDE
DATE : Juit 1995	NEWTON CREEK
DRAWN : G.M.B.	DRILL SECTION
REFERENCE :	YNC12
REVISIONS :	328° AMG

DRAWING No. YNC12_A0 | SCALE 1:1000 0 20 40 m | FIG. No. 7



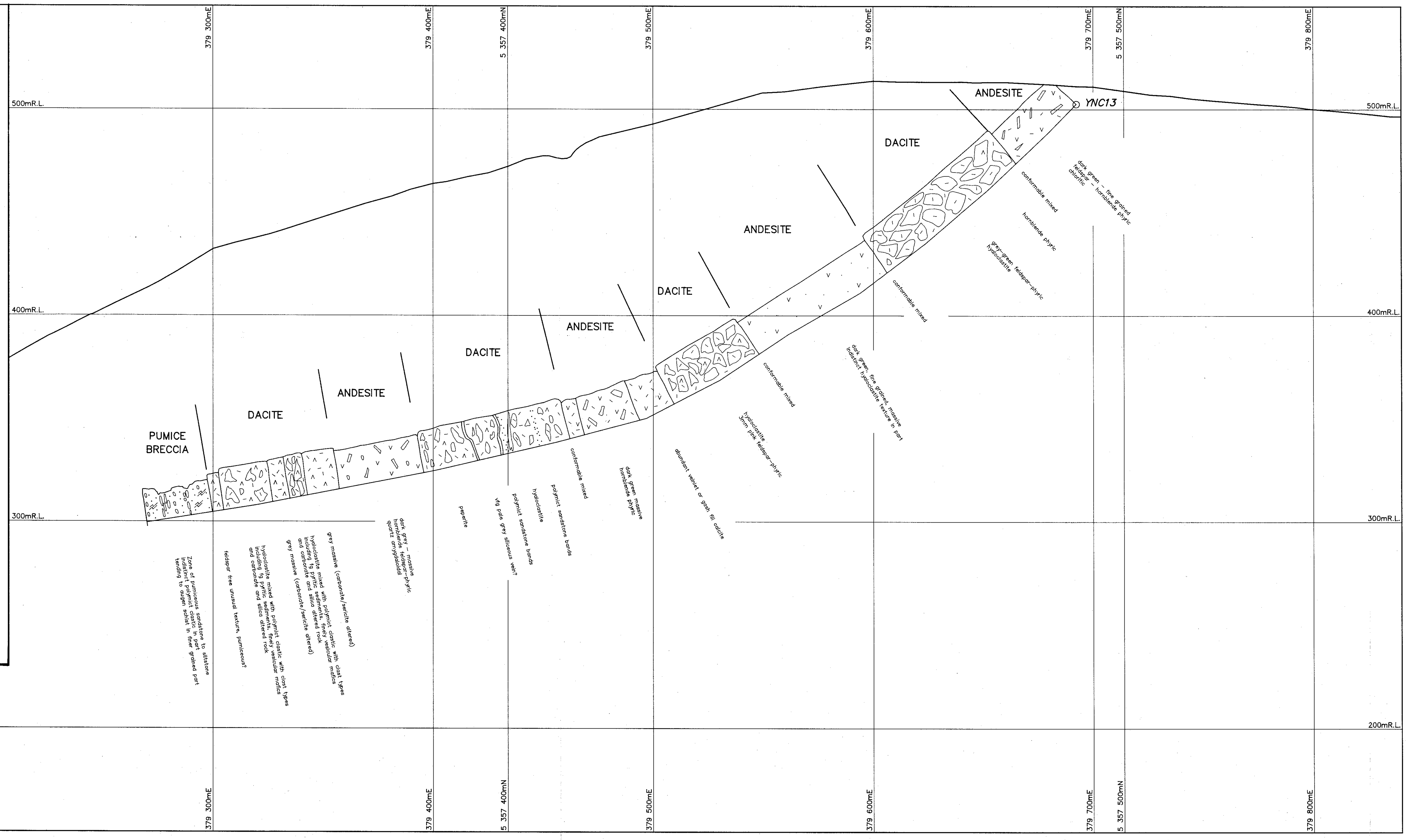
YNC13 ASSAY RESULTS

In ppm unless stated

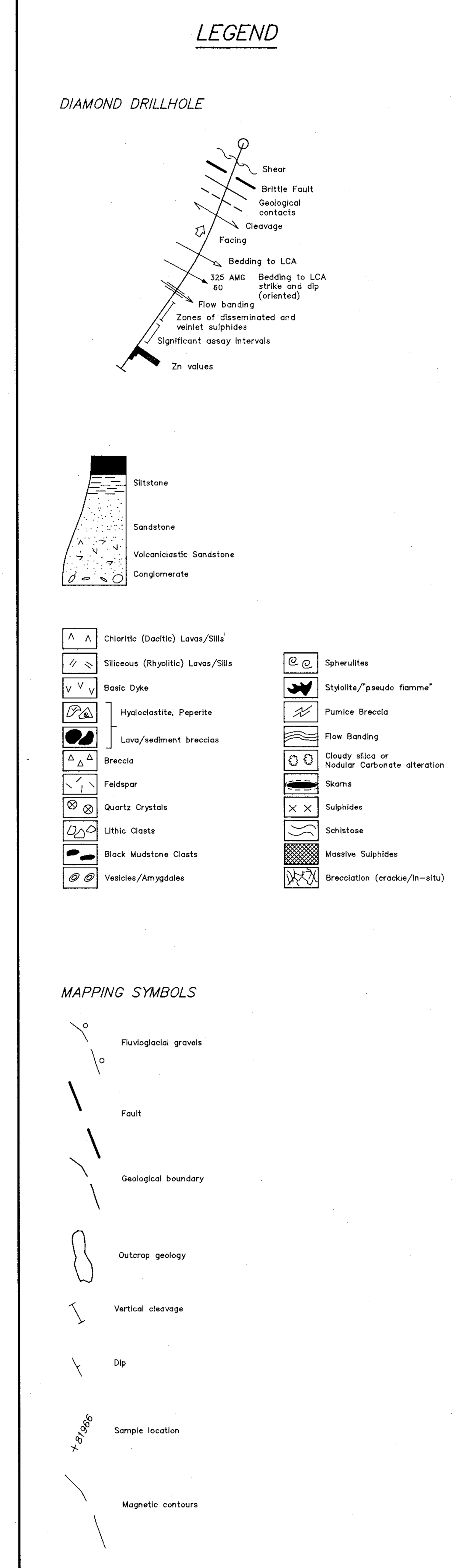
SAMPLE	FROM	TO	INT	Cu	Pb	Zn	Ag	Au	Fe%	Ba	Mn
37984	297.8	299.8	2	24	11	56	<1	<0.008		1140	527
37985	300	301.6	1.6	22	9	63	<1	<0.008		1231	696
37986	312.3	313.6	1.3	17	21	54	<1	<0.008		1189	685
37987	313.6	315.5	1.9	16	18	66	<1	<0.008		937	857
37988	321	323.6	2.6	16	28	60	<1	<0.008		1050	597
37989	323.6	328.2	4.6	13	51	72	<1	<0.008		1435	380
37990	352.2	353.7	1.5	11	16	37	<1	0.17		845	516
37991	353.7	355.3	1.6	10	27	37	<1	<0.008		721	619
37992	364.5	366	1.5	54	25	91	<1	<0.008	3.81	991	476
37993	368	369.8	1.8	21	38	86	<1	<0.008	3.59	975	528
37994	369.8	370.7	0.9	40	56	113	<1	<0.008	4.5	1350	857
37995	370.7	372	1.3	42	21	85	<1	<0.008	4.89	1450	1037
37996	376.7	379	2.3	42	32	106	<1	<0.008	6.26	1370	674
37997	379	381.1	2.1	38	14	86	<1	<0.008	5.31	1160	986
37998	391.6	393.9	2.3	36	43	110	<1	<0.008	5.33	1110	933
37999	408	410.7	2.7	15	49	135	<1	<0.008	4.95	1110	890
38000	410.7	413.1	2.4	28	12	66	<1	<0.008	5.4	1080	885
37968	413.1	415.7	2.6	37	21	111	<1	<0.008	4.67	1130	739
37969	423.9	426	2.1	12	18	81	<1	<0.008	3.23	910	866
37970	426	428.4	2.4	12	30	109	<1	<0.008	3.27	1040	652
37971	428.4	431.4	3	11	25	64	<1	<0.008	3.15	1070	487
37972	441.3	444.2	2.9	14	20	72	<1	<0.008	3.64	972	612
37973	444.2	447	2.8	11	24	70	<1	<0.008	3.12	911	734
37974	447	449.9	2.9	10	25	89	<1	<0.008	3.49	964	447
37975	449.9	452.7	2.8	12	25	87	<1	<0.008	3.2	988	222
37976	452.7	455.9	3.2	17	63	205	<1	<0.008	3.44	954	347
40404	455.9	458.6	2.7	13	52	107	<1	<0.008	3.84	941	257
40405	458.6	461.1	2.5	14	29	107	<1	<0.008	3.57	917	258
40406	461.1	464	2.9	12	26	121	<1	<0.008	3.46	899	458
40407	464	468.3	4.3	18	19	93	<1	<0.008	3.7	978	257
40408	468.3	471.4	3.1	16	12	56	<1	<0.008	3.83	759	506
40409	471.4	474.1	2.7	16	8	35	<1	<0.008	2.91	825	494
40410	474.1	477	2.9	14	11	38	<1	<0.008	3.11	908	346
40411	477	478.3	1.3	20	8	30	<1	<0.008	3.43	976	532
40412	478.3	479.7	1.4	76	11	75	<1	<0.008	5.26	760	290
40413	479.7	481.6	1.9	46	8	40	<1	<0.008	3.33	820	357
40414	481.6	484.2	2.6	29	8	41	<1	<0.008	3.56	784	436
40415	484.2	486.9	2.7	10	15	40	<1	<0.008	3.02	826	484
40416	486.9	489.4	2.5	17	24	57	<1	<0.008	3.27	888	471
40417	489.4	492.6	3.2	14	37	199	<1	<0.008	3.15	852	598
40418	492.6	495.3	2.7	21	50	110	<1	<0.008	3.4	896	276
40419	495.3	498	2.7	21	75	262	<1	<0.008	3.17	883	377
40420	498	501.1	3.1	31	52	164	<1	<0.008	3.41	837	430
40421	501.1	503.7	2.6	89	13	78	<1	<0.008	5.73	636	751
40422	503.7	506.7	3	27	56	161	<1	<0.008	2.95	860	273

SAMPLE	FROM	TO	INT	Al2O3	SiO2	TiO2	Fe2O3	MnO	CaO	K2O	MgO	P2O5	Na2O
37977	13.7	14.2	0.5	15.7	55.3	0.49	7.97	0.13	5.4	2.25	2.88	0.19	3.02
37978	64.5	64.9	0.4	14.8	65.6	0.5	5.98	0.09	1.55	3.67	1.9	0.15	1.86
37979	151.4	151.9	0.5	14.9	55.4	0.45	7.79	0.11	5.49	2.58	3.54	0.18	2.42
37980	249.4	249.9	0.5	13.9	56.4	0.46	6.3	0.11	7.09	2.7	2.8	0.15	2.3
37981	310	310.6	0.6	13.8	66.7	0.46	4.5	0.1	2.98	2.74	1.24	0.13	3.43
37982	381.1	381.6	0.5	15.2	57.7	0.48	7.87	0.15	4.13	1.83	3.78	0.18	2.83
37983	419.4	419.8	0.4	13.9	63	0.47	4.95	0.13	4.29	2.99	1.33	0.14	2.13

SAMPLE	FROM	TO	INT	SO3	LOI	Al	Rb	Sr	V	Nb	Y	Zr
37977	13.7	14.2	0.5	0.03	6.08	38	63	330	204	6	21	134
37978	64.5	64.9	0.4	0.05	3.27	62	113	125	55	10	37	240
37979	151.4	151.9	0.5	0.02	6.63	44	72	234	182	6	21	121
37980	249.4	249.9	0.5	0.1	7.5	37	88	212	120	7	25	160
37981	310	310.6	0.6	0.61	3.16	38	66	188	55	7	33	219
37982	381.1	381.6	0.5	0.99	4.52	45	48	303	186	4	19	128
37983	419.4	419.8	0.4	1.51	4.61	40	79	166	45	9	38	226



379 000mE
379 100mE
5 357 300mN
379 200mE



782300

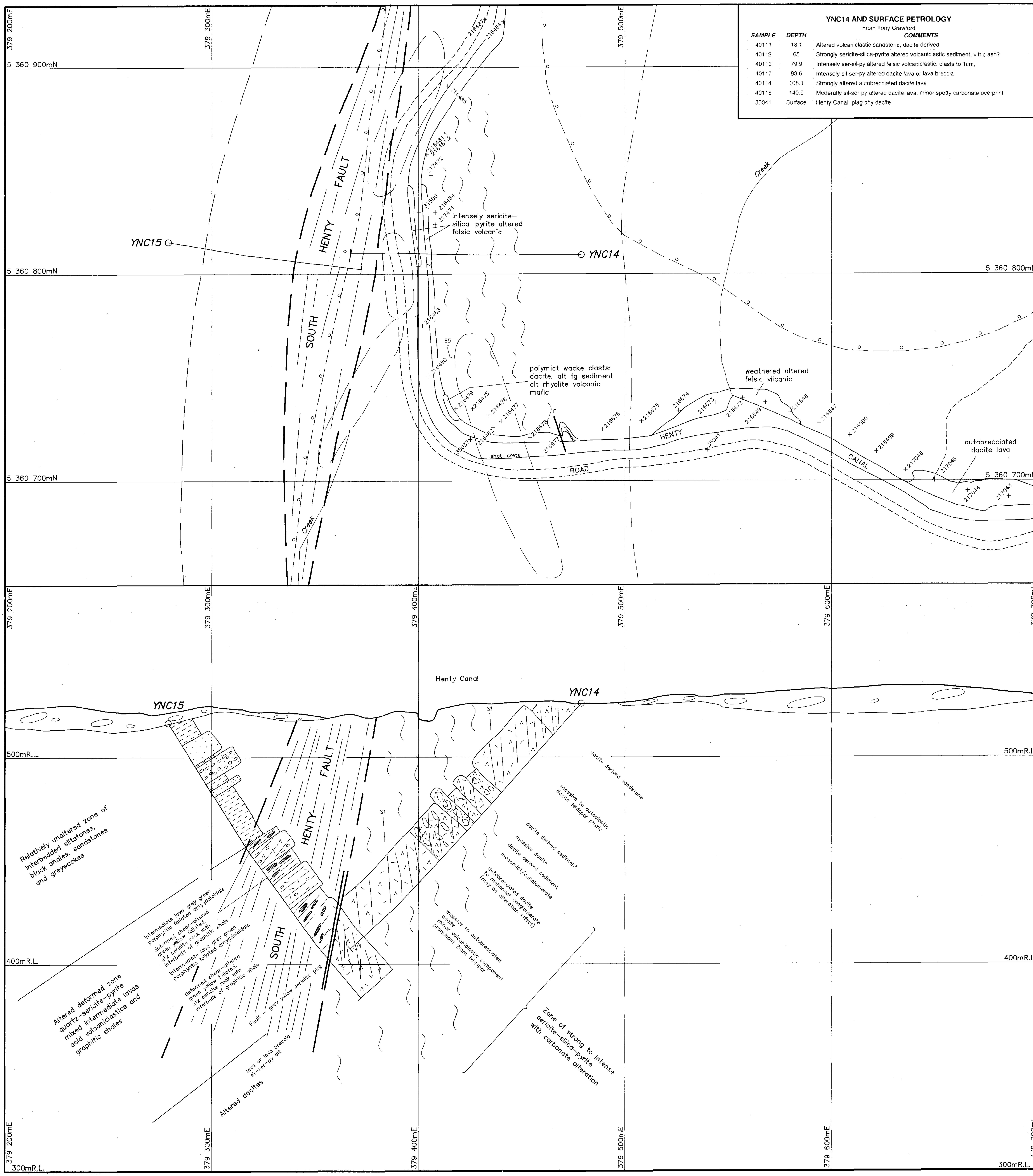
5 cm

95-3754

YOLANDE JOINT VENTURE EL
11/85 ANNUAL REPORT 1994-95
QUAYLE P PASMINCO VOL 1/2 2/2

PASMINCO EXPLORATION
A Division of Pasminco Australia Limited

COMPILED : P.M.Q.	E.L. 11/85 – YOLANDE
DATE : July 1995	NEWTON CREEK
DRAWN : G.M.B.	DRILL SECTION
REFERENCE :	YNC13
REVISIONS :	70° AMG
DRAWING No. YNC13_A0	SCALE 1:1000 (0 20 40 m) — FIG. No. 8



YNC14 AND SURFACE PETROLOGY

From Tony Crawford

SAMPLE	DEPTH	COMMENTS
40111	18.1	Altered volcaniclastic sandstone, dacite derived
40112	65	Strongly sericite-silica-pyrite altered volcaniclastic sediment, vitric ash?
40113	79.9	Intensely ser-sil-py altered felsic volcaniclastic, clasts to 1cm,
40117	83.6	Intensely sil-ser-py altered dacite lava or lava breccia
40114	108.1	Strongly altered autobrecciated dacite lava
40115	140.9	Moderatly sil-ser-py altered dacite lava. minor spotty carbonate overprint
35041	Surface	Henty Canal: plag phy dacite

ASSAY RESULTS - In ppm unless stated

SAMPLE	Cu	Pb	Zn	Ag	Au	Fe%	Ba	As	Mn
216475	30	145	185	2	0		1300	38	90
216476	40	130	185	6	0		1420	64	115
216477	30	205	105	2	0		895	73	65
216479	25	685	80	2	0		639	31	75
216480	20	180	65	0	0.01		451	19	50
216481.1	30	85	105	<0.5	0.01		1070	37	60
216482	25	105	175	1	0		465	28	65
216483	25	90	755	<0.5	0.02		1280	29	80
216484	25	80	45	<0.5	0.01		403	28	90
216485	45	150	85	2	0.04		756	41	90
216486	20	55	95	0	0		385	1	300
216487	25	55	40	0	0.01		376	3	110
216499	10	120	160	0	0		343	6	
216500	15	45	185	0	0		403	4	
216647	10	2	80	0	0		621	1	
216648	5	2	115	0	0		1540	1	
216649	20	2	220	0	0		587	1	
216672	5	2	140	0	0		815	1	
216673	10	2	120	0	0		900	2	
216674	10	2	55	0	0		831	1	
216675	10	2	100	0	0		909	2	
216676	5	2	115	0	0		802	2	
216677	20	90	70	1	0		639	23	
216678	30	770	295	2	0		797	23	
217043	15	2	135	0	0		855	2	
217044	10	160	125	0	0		323	17	
217045	5	2	105	0	0		562	1	
217046	10	2	35	0	0		206	1	
217471	25	55	50	0	0		202	22	
217472	20	50	20	4	0.07		456	27	
31500	11	18	17	<1	0	1.22			
35037	17	253	385	2	0	1.28			

SAMPLE	Al2O3	SiO2	TiO2	Fe2O3	MnO	CaO	K2O	MgO	P2O5	Na2O
216481.2	15.01	70.4	0.56	3.52	0.02	0.16	3.77	0.74	0.14	1.84
31500	12.89	72.1	0.43	3.93	0.01	0.08	1.82	0.37	0.04	4.24
35037	12.16	73.1	0.41	4.78	0.02	0.08	2.72	0.51	0.08	2.38
35041	16.62	66.5	0.58	4.44	0.08	0.35	1.85	1.81	0.16	5.29

SAMPLE	Rb	Sr	V	SO3	LOI	Al	Nb	Y	Zr
216481.2	160	40		4.93	3.81	69		35	260
31500	76	65	35		3.3	34	9	26	176
35037	95	56	35		3.63	57	9	30	181
35041	86	307	44		2.42	39	12	44	268

YNC14 (values in ppm unless stated)

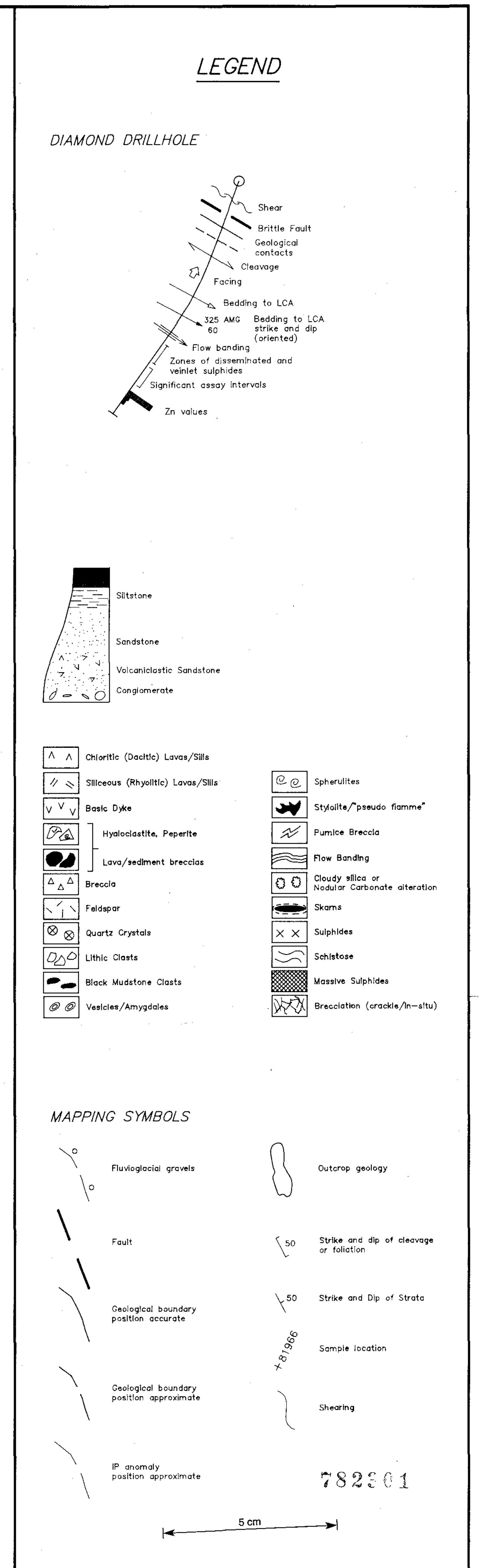
SAMPLE	FROM	TO	INT	Cu	Pb	Zn	Ag	Au	Fe%	Ba	As	Mn
40423	65.7	67.7	2.0	38	205	216	3	0.01	5.41	507	36	357
40424	67.7	69.7	2.0	35	126	128	3	<0.008	4.94	410	33	435
40737	69.7	72.0	2.3					0.01				
40738	72.0	74.6	2.6					<0.008				
40739	74.6	77.0	2.4					<0.008				
40425	77.0	79.0	2.0	48	49	109	1	<0.008	3.45	549	24	826
40426	79.0	81.0	2.0	419	65	47	8	0.03	7.39	628	28	192
40427	81.0	83.0	2.0	303	72	45	4	0.05	6.16	589	40	67
40428	83.0	85.0	2.0	42	85	65	1	0.02	4.21	567	75	129
40429	85.0	87.0	2.0	62	113	65	2	0.02	4.61	782	51	132
40430	87.0	89.0	2.0	25	88	56	1	0.01	3.18	752	75	279
40740	89.0	90.7	1.7					0.04				
40741	90.7	93.0	2.3					0.01				
40431	93.0	95.0	2.0	20	47	77	1	<0.008	2.85	774	16	235
40742	95.0	97.5	2.5					<0.008				
40743	97.5	99.6	2.1					<0.008				
40744	99.6	102.0	2.4					<0.008				
40745	102.0	104.1	2.1					<0.008				
40746	104.1	106.0	1.9					0.01				
40432	106.0	108.0	2.0	16	43	29	1	0.01	2.79	683	33	253
40747	108.0	111.0	3.0					0.01				
40433	111.0	113.0	2.0	13	13	29	<1	<0.008	3.72	731		268
40434	113.0	115.0	2.0	11	15	46	<1	<0.008	3.85	737		218
40435	115.0	117.0	2.0	11	13	75	<1	0.02	3.48	566		292
40436	117.0	119.0	2.0	12	16	44	<1	<0.008	3.94	526		318
40437	119.0	121.0	2.0	12	13	58	<1	<0.008	3.47	439		443
40438	123.5	125.5	2.0	13	27	57	6	<0.008	3.75	591		319
40439	125.5	127.5	2.0	16	38	64	<1	<0.008	3.54	739		743
40440	127.5	129.5	2.0	13	12	44	<1	<0.008	3	768		394
40441	129.5	131.5	2.0	13	21	63	<1	<0.008	3.58	826		416
40442	131.5	133.5	2.0	14	38	64	<1	<0.008	3.56	696		390
40443	133.5	135.8	2.3	14	19	69	<1	<0.008	2.96	787		356
40444	135.8	137.8	2.0	18	103	407	<1	<0.008	4.2	855		639
40445	137.8	139.8	2.0	20	56	59	<1	<0.008	4.36	914		552
40446	139.8	141.8	2.0	26	98	70	3	<0.008	6.91	975		376
40447	141.8	143.8	2.0	13	36	86	<1	<0.008	2.91	720		731
40448	143.8	145.8	2.0	9	61	285	<1	<0.008	2.08	629		553
40449	145.8	147.8	2.0	14	148	639	<1	<0.008	2.71	748		577
40450	147.8	149.8	2.0	11	26	142	<1	<0.008	2.81	673		554
40451	149.8	151.8	2.0	9	30	154	<1	<0.008	2.93	619		738
40452	151.8	153.8	2.0	8	38	159	<1	<0.008	2.74	653		970
40453	153.8	155.8	2.0	10	18	57	<1	<0.008	2.74	601		931
40454	155.8	157.8	2.0	10	24	58	<1	<0.008	2.51	608		900
40455	157.8	160.0	2.2	9	36	92	<1	<0.008	1.99	576		1077
40456	160.0	162.0	2.0	11	139	629	<1	<0.008	2.43	586		660

SAMPLE	FROM	TO	INT	Al2O3	SiO2	TiO2	Fe2O3	MnO	CaO	K2O	MgO	P2O5
40423	65.7	67.7	2.0	14.4	63.8	0.48	7.26	0.05	1.52	3.12	0.57	0.12
40433	111.0	113.0	2.0	13.2	68.3	0.46	5.16	0.03	1.35	2.13	0.41	0.11

SAMPLE	FROM	TO	INT	Na2O	SO3	LOI	Al	Sr	V	Nb	Y	Zr
40423	65.7	67.7	2.0	3.39	1	4.74	43					
40433	111.0	113.0	2.0	4.25	5.07	3.73	31	120	52	10	34	217

YNC15 (In ppm unless stated)

SAMPLE	FROM	TO	INT	Cu	Pb	Zn	Ag	Au	Mn
40756	71.0	73.0	2.0	83	8	128	<1	0.01	1607
40757	73.0	74.9	1.9	66	<3	169	<1	0.01	1526
40758	75.3	77.5	2.2	3	<3	100	<1	0.01	1556
40759	77.5	80.2	2.7	3	<3	119	<1	<0.008	1515
40760	80.2	82.0	1.8	7	<3	101	<1	0.01	1660
40761	82.0	84.1	2.1	3	<3	81	<1	<0.008	1812
40762	89.4	91.7	2.3	3	<3	59	<1	<0.008	1817
40763	91.7	93.9	2.2	5	<3	36	<1	<0.008	1666
40764	106.3	108.4	2.1	180	<3	76	<1	<0.008	1155
40765	108.4	110.0	1.6	18	<3	31	<1	<0.008	1541
40766	110.0	112.2	2.2	9	<3	28	<1	<0.008	1419
40767	117.4	119.9	2.5	6	<3	79	<1	0.02	760
40768	119.9	122.3	2.4	2	<3	24	<1	<0.008	2025
40769	122.3	124.3	2.0	2	<3	30	<1	<0.008	1785
40770	124.3	126.3	2.0	<2	<3	26	<1	0.01	1964
40771	126.3	128.5	2.2	2	<3	27	<1	<0.008	1555
40772	128.5	130.8	2.3	<2	<3	110	<1	0.01	1619
40773	130.8	132.8	2.0	<2	<3	22	<1	0.01	1039
40774	132.8	134.8	2.0	2	<3	23	<1	0.01	1127
40775	134.8	136.3	1.5	5	<3	36	<1	0.01	1363
40776	136.3	138.1	1.8	205	7	63	<1	0.02	906
40777	138.1	139.9	1.8	38	14	227	<1	0.01	1082
40778	140.2	142.0	1.8	16	399	1560	<1	<0.008	654
40779	142.0	144.3	2.3	13	174	580	<1	0.01	691
40780	144.3	146.3	2.0	12	80	261	<1	<0.008	704
40781	146.3	148.4	2.1	12	78	212	<1	<0.008	785
40782	148.4	150.5	2.1	15	58	590	<1	<0.008	847
40783	150.5	152.3	1.8	9	30	158	<1	<0.008	878
40784	152.3	154.7	2.4	8	53	248	<1	<0.008	1117
40785	154.7	157.0	2.3	11	66	191	<1	<0.008	752
40786	157.0	158.7	1.7	12	117	469	<1	<0.008	1092
40787	158.7	160.4	1.7	24	160	1230	<1	0.01	891
40788	160.4	162.3	1.9	8	54	195	<1	<0.008	545



95-3754

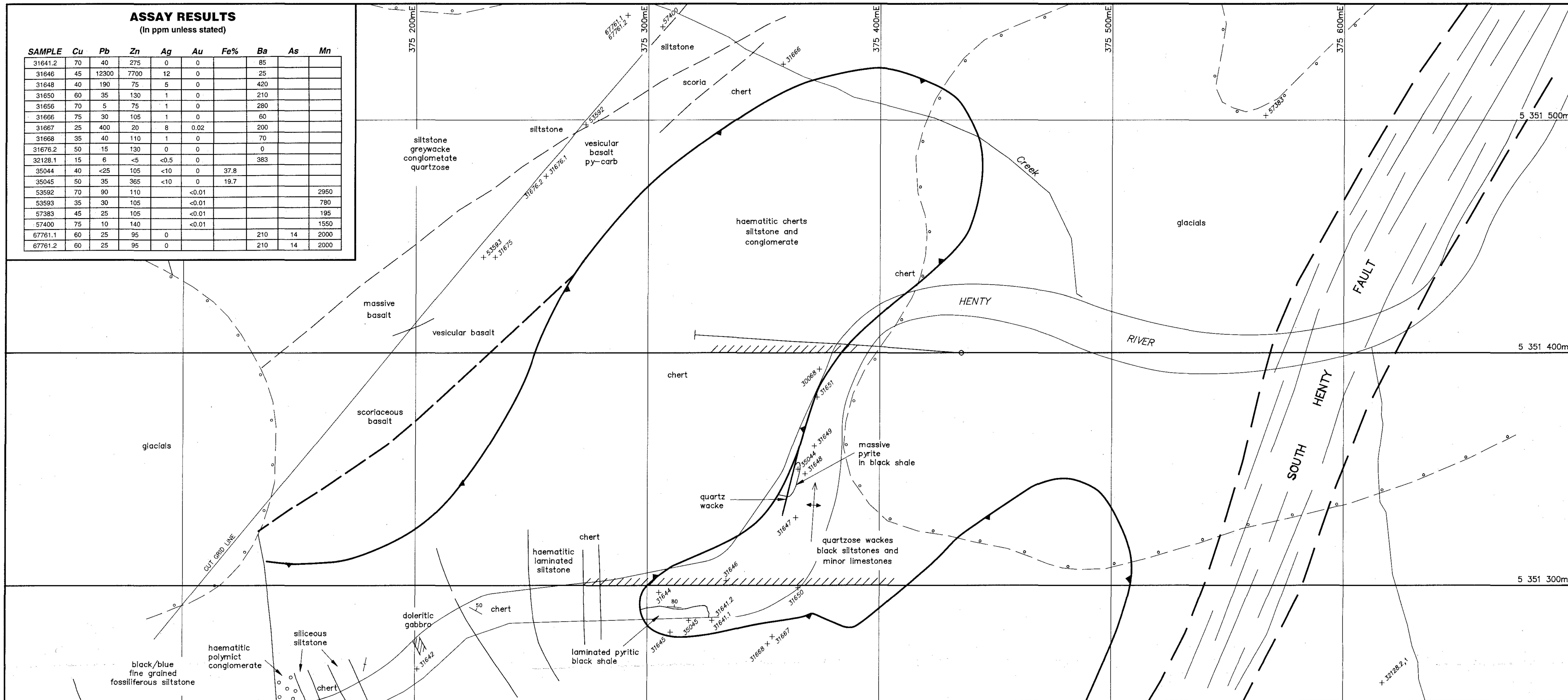
YOLANDE JOINT VENTURE EL
11/85 ANNUAL REPORT 1994-95
QUAYLE P PASMINCO VOL 1/2 2/2

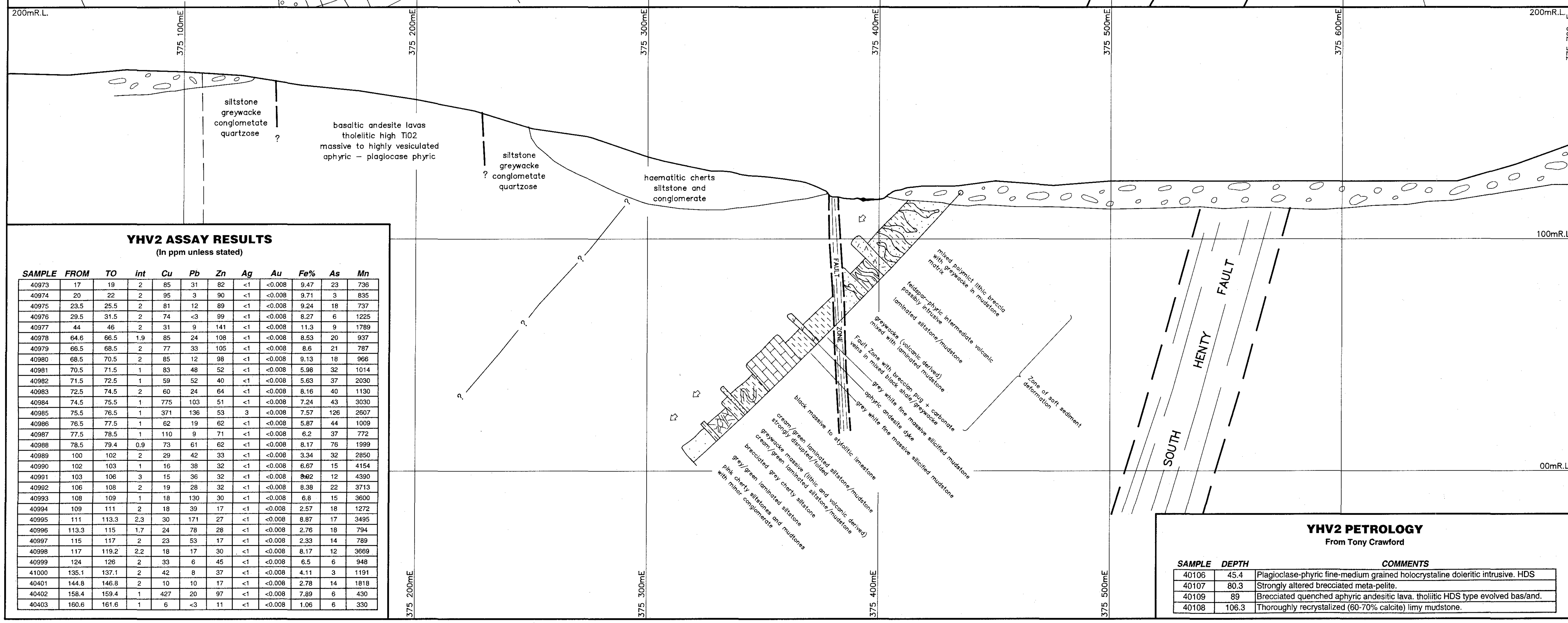
PASMINCO EXPLORATION
A Division of Pasminco Australia Limited

COMPILED : P.M.Q.	E.L. 11/85 – YOLANDE JV
DATE : July 1995	NEWTON CREEK
DRAWN : G.M.B.	DRILL SECTION
REVISIONS :	YNC14 and YNC15
FILE : Y1415_A1	5 360 800mN
DRAWING No.	SCALE 1:1000 0 20 40 m — FIG. No. 9

ASSAY RESULTS
(In ppm unless stated)

SAMPLE	Cu	Pb	Zn	Ag	Au	Fe%	Ba	As	Mn
31641.2	70	40	275	0	0		85		
31646	45	12300	7700	12	0		25		
31648	40	190	75	5	0		420		
31650	60	35	130	1	0		210		
31656	70	5	75	1	0		280		
31666	75	30	105	1	0		60		
31667	25	400	20	8	0.02		200		
31668	35	40	110	1	0		70		
31676.2	50	15	130	0	0		0		
32128.1	15	6	<5	<0.5	0		383		
35044	40	<25	105	<10	0	37.8			
35045	50	35	365	<10	0	19.7			
53592	70	90	110		<0.01				2950
53593	35	30	105		<0.01				780
57383	45	25	105		<0.01				195
57400	75	10	140		<0.01				1550
67761.1	60	25	95	0			210	14	2000
67761.2	60	25	95	0			210	14	2000



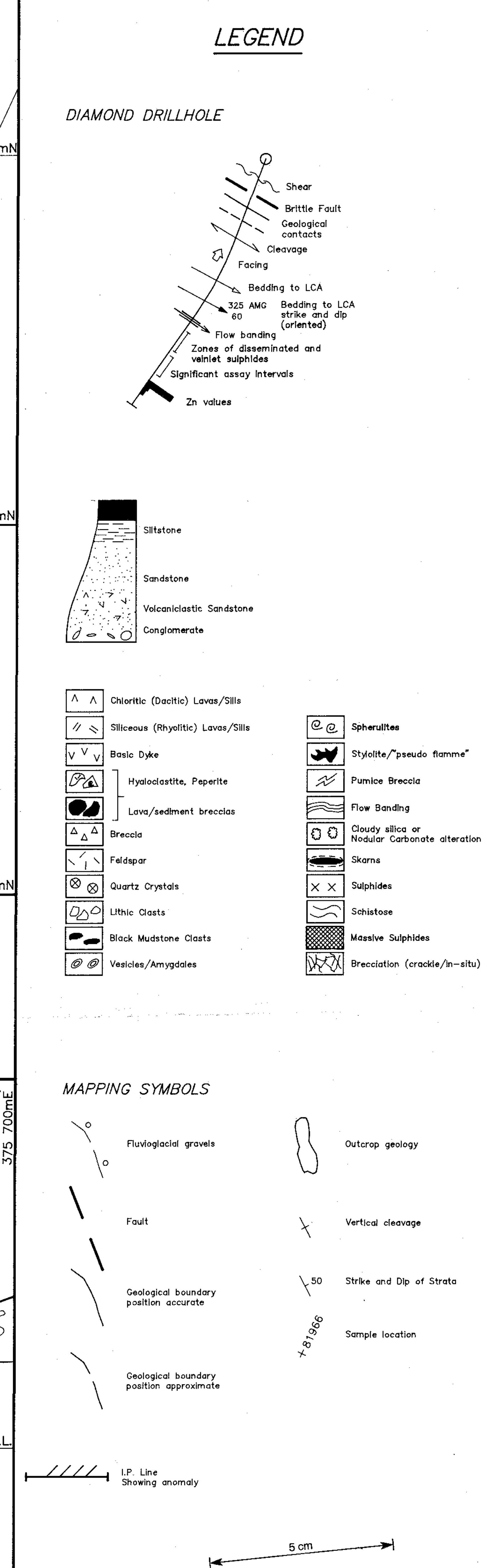


YHV2 ASSAY RESULTS
(In ppm unless stated)

SAMPLE	FROM	TO	int	Cu	Pb	Zn	Ag	Au	Fe%	As	Mn
40973	17	19	2	85	31	82	<1	<0.008	9.47	23	736
40974	20	22	2	95	3	90	<1	<0.008	9.71	3	835
40975	23.5	25.5	2	81	12	89	<1	<0.008	9.24	18	737
40976	29.5	31.5	2	74	<3	99	<1	<0.008	8.27	6	1225
40977	44	46	2	31	9	141	<1	<0.008	11.3	9	1789
40978	64.6	66.5	1.9	85	24	108	<1	<0.008	8.53	20	937
40979	66.5	68.5	2	77	33	105	<1	<0.008	8.6	21	787
40980	68.5	70.5	2	85	12	98	<1	<0.008	9.13	18	966
40981	70.5	71.5	1	83	48	52	<1	<0.008	5.98	32	1014
40982	71.5	72.5	1	59	52	40	<1	<0.008	5.63	37	2030
40983	72.5	74.5	2	60	24	64	<1	<0.008	8.16	40	1130
40984	74.5	75.5	1	775	103	51	<1	<0.008	7.24	43	3030
40985	75.5	76.5	1	371	136	53	3	<0.008	7.57	126	2607
40986	76.5	77.5	1	62	19	62	<1	<0.008	5.87	44	1009
40987	77.5	78.5	1	110	9	71	<1	<0.008	6.2	37	772
40988	78.5	79.4	0.9	73	61	62	<1	<0.008	8.17	76	1999
40989	100	102	2	29	42	33	<1	<0.008	3.34	32	2850
40990	102	103	1	16	38	32	<1	<0.008	6.67	15	4154
40991	103	106	3	15	36	32	<1	<0.008	8.92	12	4390
40992	106	108	2	19	28	32	<1	<0.008	8.38	22	3713
40993	108	109	1	18	130	30	<1	<0.008	6.8	15	3600
40994	109	111	2	18	39	17	<1	<0.008	2.57	18	1272
40995	111	113.3	2.3	30	171	27	<1	<0.008	8.87	17	3495
40996	113.3	115	1.7	24	78	28	<1	<0.008	2.76	18	794
40997	115	117	2	23	53	17	<1	<0.008	2.33	14	789
40998	117	119.2	2.2	18	17	30	<1	<0.008	8.17	12	3669
40999	124	126	2	33	6	45	<1	<0.008	6.5	6	948
41000	135.1	137.1	2	42	8	37	<1	<0.008	4.11	3	1191
40401	144.8	146.8	2	10	10	17	<1	<0.008	2.78	14	1818
40402	158.4	159.4	1	427	20	97	<1	<0.008	7.89	6	430
40403	160.6	161.6	1	6	<3	11	<1	<0.008	1.06	6	330

YHV2 PETROLOGY
From Tony Crawford

SAMPLE	DEPTH	COMMENTS
40106	45.4	Plagioclase-phyric fine-medium grained holocrystaline doleritic intrusive. HDS
40107	80.3	Strongly altered brecciated meta-pelite.
40109	89	Brecciated quenched aphyric andesitic lava. tholiitic HDS type evolved bas/and.
40108	106.3	Thoroughly recrystalized (60-70% calcite) limy mudstone.



95-3754

YOLANDE JOINT VENTURE EL
11/85 ANNUAL REPORT 1994-95
QUAYLE P PASMINCO VOL 1/2 2/2

782302

PASMINCO EXPLORATION
A Division of Pasminco Australia Limited

COMPILED : P.M.Q.
DATE :
DRAWN : G.M.B.
REVISIONS :
FILE : YHV2_A1
DRAWING No.

E.L. 11/85 – YOLANDE JV
HENTY VALLEY
DRILL SECTION
YHV2
5 351 400mN

SCALE 1:1000 0 20 40 m

FIG. No. 10

95-3754
YOLANDE JOINT VENTURE EL 11/85 ANNUAL REPORT 1994-95 QUAYLE P PASMINCO VOL 1/2 2/2

782303

PASMINCO EXPLORATION
A Division of Pasminco Australia Limited

COMPILED : P.M.Q
DATE : Jan., 1994
DRAWN : G.M.B.
REVISIONS : P.M.Q.
DATE : May 1995
July, 1995
FILE : 5_NCSGOL
DRAWING No.

E.L. 11/85 – YOLANDE JV
NEWTON CREEK
SIMPLIFIED GEOLOGY

SCALE 1:5000 0 100 200 m
FIG. No. 14

LEGEND

QUARTERNARY

Qa / Bed-rock	Alluvium

SILURIAN-DEVONIAN

Df	Quartz sandstone/mudstone (Florence Sandstone).
Sca	Quartz sandstone/mudstone (Crotty and Amber Formations)

ORDOVICIAN

Ogl	Limestone (Gordon Limestone)
Oop	Quartz sandstone and grit (Pioneer Beds)

CAMBRIAN

Єsg	Volcaniclastic sandstone and conglomerate (Tyndall Group - Comstock Tuff/Lynchford Tuff/Whip Spur Agglomerate), polymict (felsic-basaltic), matrix supported, ± patchy albitization, ± magnetite grains
Єab	Basaltic andesitic intrusives and lavas
Єv	Felsic feldspar phyric lavas/intrusives, flow banded and columnar jointed.
Єvx	Quartz porphyry - felsic lava or vitric crystal "tuff" angular quartz crystals <3mm in a fine grained quartz feldspar groundmass (recrystallized glass).
Єvxl	Rhyolitic pumiceous mass debris flow/ignimbrite, quartz feldspar crystals volcanic and mudstone clasts in a fine grained glassy matrix.
Єqfmp Єqfp	Quartz feldspar mica porphyry, massive intrusives and possibly lavas, partly transgressive but generally stratabound.
Єms(2)	Mudstone grey - graphitic and quartz mica wackes
Єs	Quartz mica sandstone (Miners Ridge Sandstone), derived from pelitic metamorphics, no volcanic component, detrital tourmaline and zircon
Єms(1)	Mudstone grey - graphitic and sandstone.
Cba(lc)	Basaltic - andesitic lavas/breccias/intrusives (Lynch Creek Basalt), plagioclase augite phyric.
Єb(mr)	Basalt (Miners Ridge Basalt), ophitic textured tholeiitic basalt.

—?— m?w	Geological contact/unconformity obscured by Quarternary alluvium
	Geological contact - interpreted
	Unconformity - interpreted
	Contact bedrock exposure and Quarternary alluvium
	Fault
	Plunging syncline
	Plunging anticline
	Foliation
	Cleavage
	Bedding
	Overturned bedding
	Joint
	Quartz vein
	Costean
31637 X	Rock sample
30930 - 30935	Soil Sample
	Old Prospect
	Pasminco grid line
	Aberfoyle grid line
	Power pylon

95-3754

YOLANDE JOINT VENTURE EL
11/85 ANNUAL REPORT 1994-95
QUAYLE P PASMINCO VOL 1/2 2/2

782304

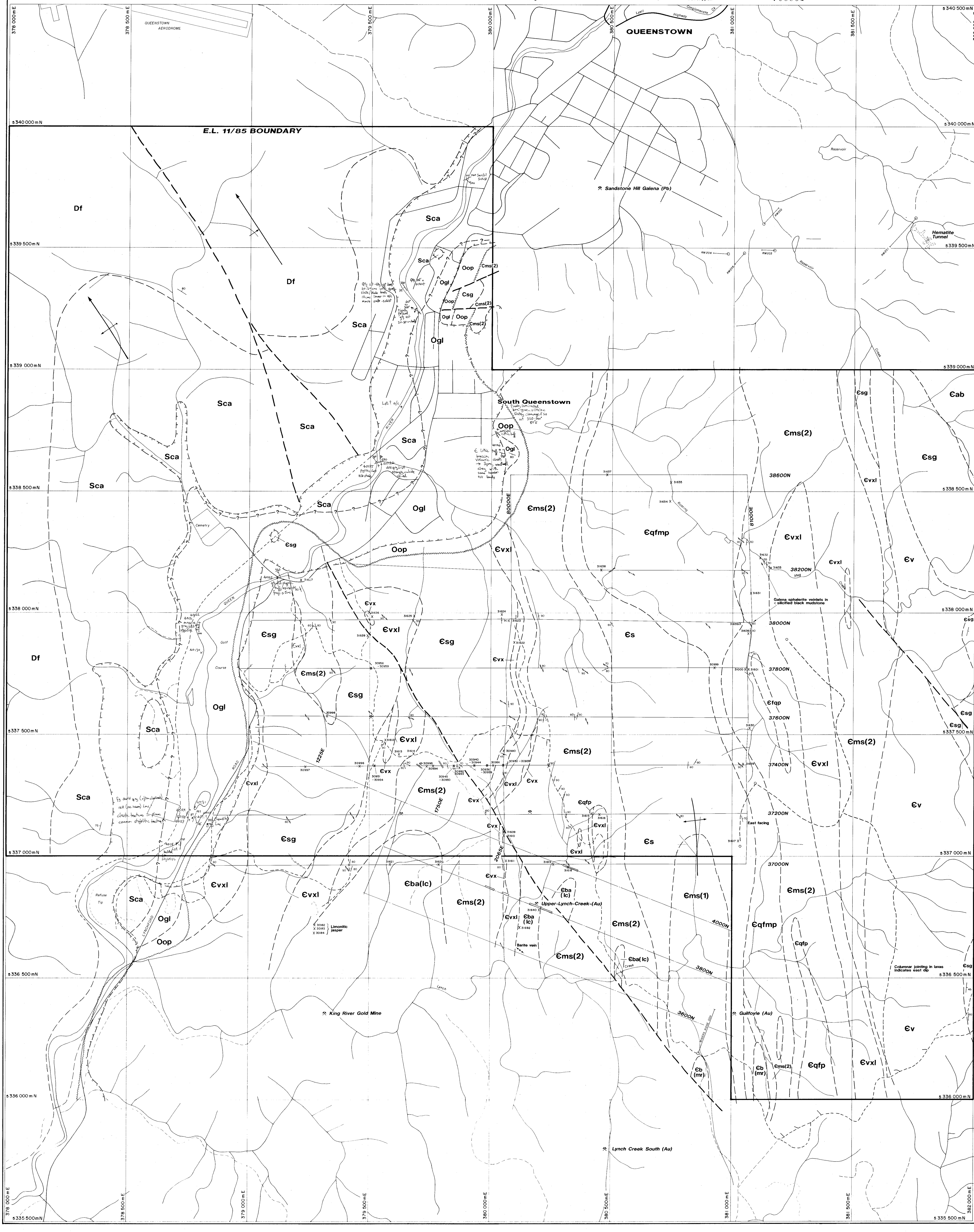
PASMINCO EXPLORATION
A Division of Pasminco Australia Limited

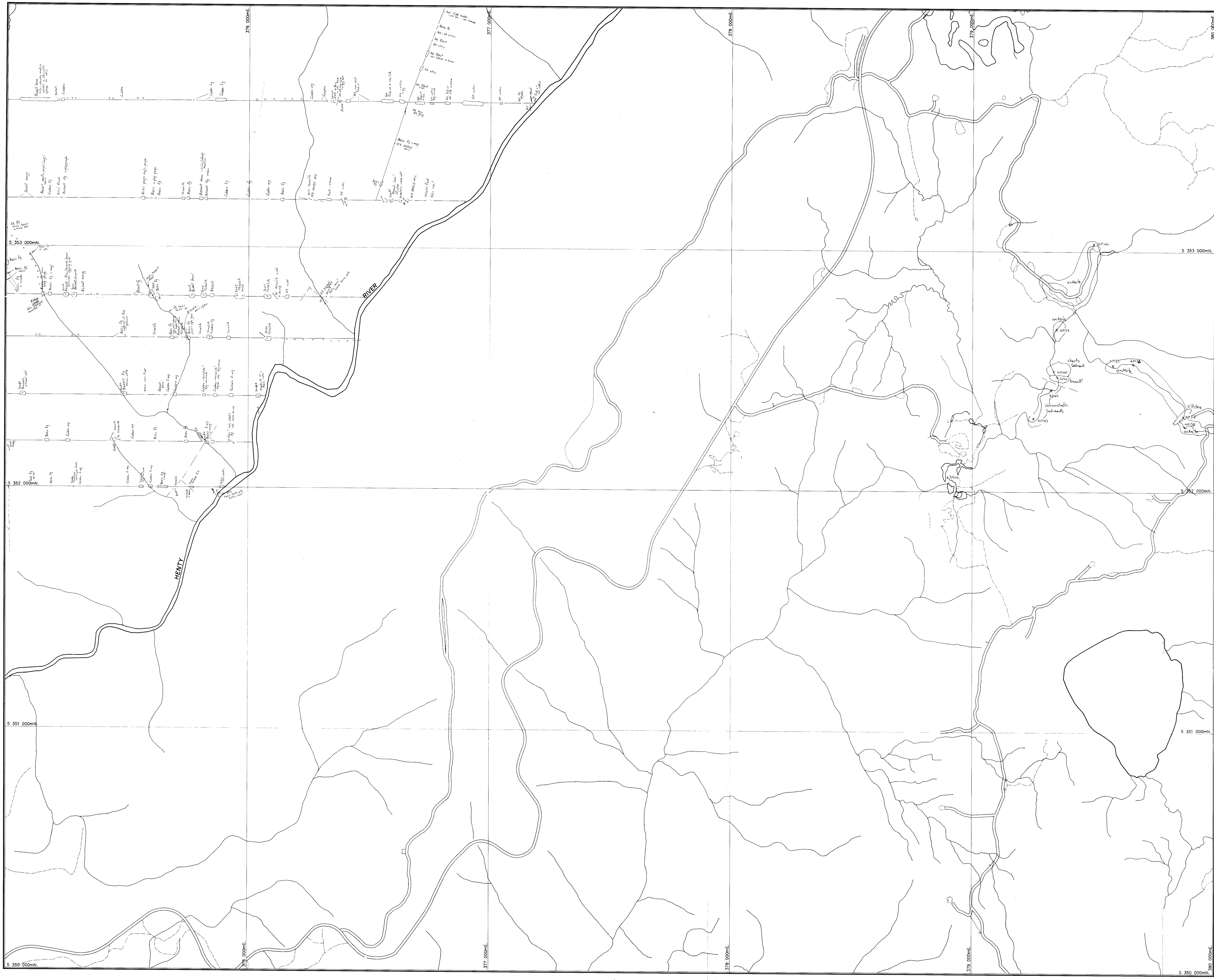
COMPILED : R.A.P.	E.L.11/85 - YOLANDE J.V.
DATE : April, 1991	LYNCHFORD AREA
DRAWN : G.M.B.	GEOLOGICAL INTERPRETATION & SAMPLE LOCATIONS
REF:	
REVISIONS : P.M.O.	
August, 1995	
DRAWING No.	SCALE 1: 5000 (100 0 100 m) — FIG. No. 20

ACKNOWLEDGMENTS :-

1. Geology outside Pasminco Grid area
   Tas. Dept. Mines - Queenstown 1: 25,000
2. Prospect locations
   Tas. Dept. Mines - Metallic Mineral Deposits Queenstown 1:50,000

5 cm





GRID CONVERGENCE 1.0°
GRID/MAGNETIC 12.0°
5 cm

95-3754

782505

PASMINCO EXPLORATION
A Division of Pasminco Australia Limited

COMPILED : R.A.P.	E.L. 11/85 - YOLANDE JV
DATE : July, 1992	HENTY AREA
DRAWN :	**FACTUAL GEOLOGY AND SAMPLE LOCATIONS**
REFERENCE :	
REVISIONS : P.M.O. August,1995	
DRAWING No. SHEET 13A	SCALE 1:5000 0 50 100 METRES — FIG. No. 21

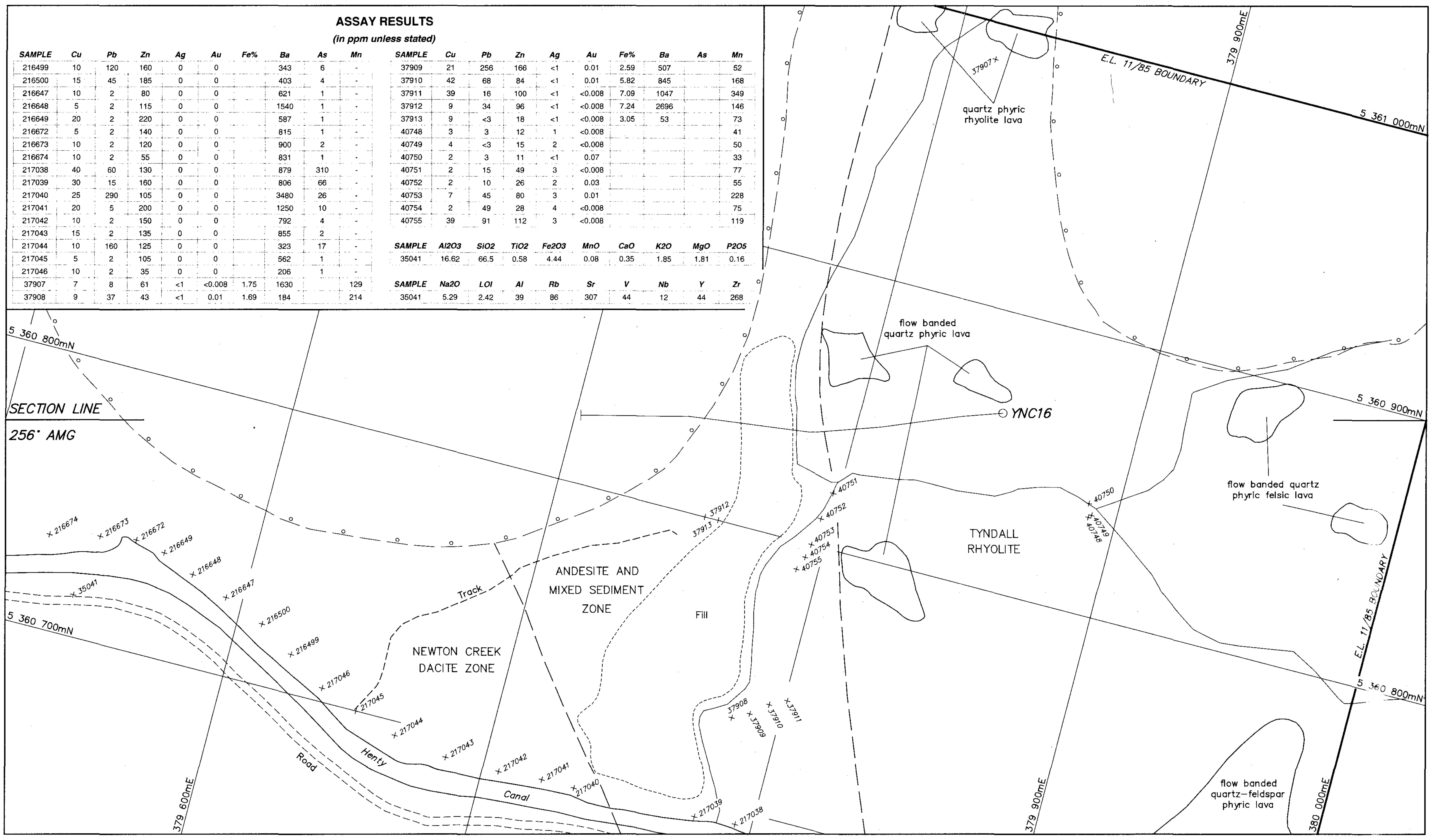
ASSAY RESULTS

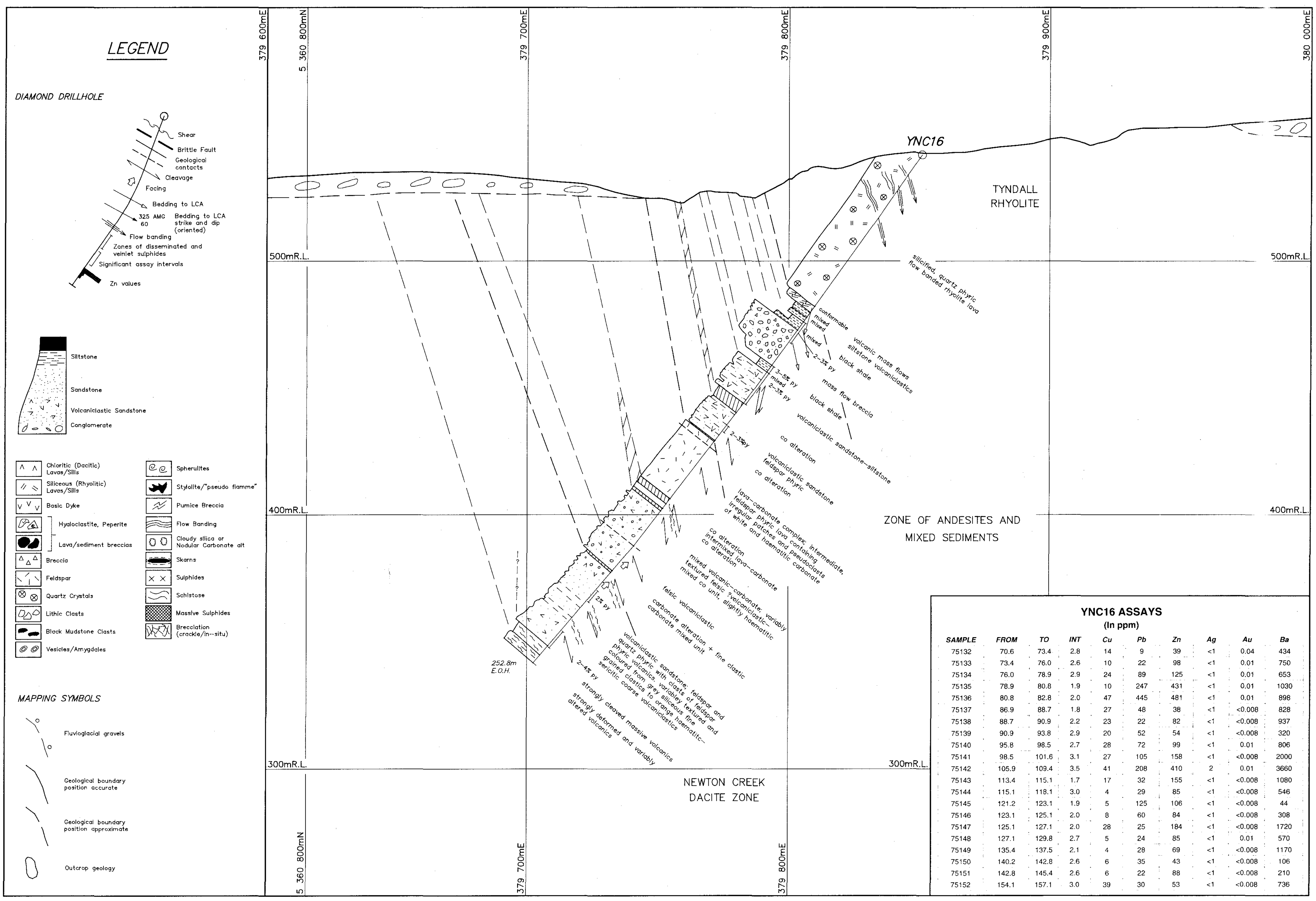
(in ppm unless stated)

SAMPLE	Cu	Pb	Zn	Ag	Au	Fe%	Ba	As	Mn
216499	10	120	160	0	0		343	6	-
216500	15	45	185	0	0		403	4	-
216647	10	2	80	0	0		621	1	-
216648	5	2	115	0	0		1540	1	-
216649	20	2	220	0	0		587	1	-
216672	5	2	140	0	0		815	1	-
216673	10	2	120	0	0		900	2	-
216674	10	2	55	0	0		831	1	-
217038	40	60	130	0	0		879	310	-
217039	30	15	160	0	0		806	66	-
217040	25	290	105	0	0		3480	26	-
217041	20	5	200	0	0		1250	10	-
217042	10	2	150	0	0		792	4	-
217043	15	2	135	0	0		855	2	-
217044	10	160	125	0	0		323	17	-
217045	5	2	105	0	0		562	1	-
217046	10	2	35	0	0		206	1	-
37907	7	8	61	<1	<0.008	1.75	1630		129
37908	9	37	43	<1	0.01	1.69	184		214
37909	21	256	166	<1	0.01	2.59	507		52
37910	42	68	84	<1	0.01	5.82	845		168
37911	39	16	100	<1	<0.008	7.09	1047		349
37912	9	34	96	<1	<0.008	7.24	2696		146
37913	9	<3	18	<1	<0.008	3.05	53		73
40748	3	3	12	1	<0.008				41
40749	4	<3	15	2	<0.008				50
40750	2	3	11	<1	0.07				33
40751	2	15	49	3	<0.008				77
40752	2	10	26	2	0.03				55
40753	7	45	80	3	0.01				228
40754	2	49	28	4	<0.008				75
40755	39	91	112	3	<0.008				119

SAMPLE	Al2O3	SiO2	TiO2	Fe2O3	MnO	CaO	K2O	MgO	P2O5
35041	16.62	66.5	0.58	4.44	0.08	0.35	1.85	1.81	0.16

SAMPLE	Na2O	LOI	Al	Rb	Sr	V	Nb	Y	Zr
35041	5.29	2.42	39	86	307	44	12	44	268





YNC16 ASSAYS

(In ppm)

SAMPLE	FROM	TO	INT	Cu	Pb	Zn	Ag	Au	Ba
75132	70.6	73.4	2.8	14	9	39	<1	0.04	434
75133	73.4	76.0	2.6	10	22	98	<1	0.01	750
75134	76.0	78.9	2.9	24	89	125	<1	0.01	653
75135	78.9	80.8	1.9	10	247	431	<1	0.01	1030
75136	80.8	82.8	2.0	47	445	481	<1	0.01	898
75137	86.9	88.7	1.8	27	48	38	<1	<0.008	828
75138	88.7	90.9	2.2	23	22	82	<1	<0.008	937
75139	90.9	93.8	2.9	20	52	54	<1	<0.008	320
75140	95.8	98.5	2.7	28	72	99	<1	0.01	806
75141	98.5	101.6	3.1	27	105	158	<1	<0.008	2000
75142	105.9	109.4	3.5	41	208	410	2	0.01	3660
75143	113.4	115.1	1.7	17	32	155	<1	<0.008	1080
75144	115.1	118.1	3.0	4	29	85	<1	<0.008	546
75145	121.2	123.1	1.9	5	125	106	<1	<0.008	44
75146	123.1	125.1	2.0	8	60	84	<1	<0.008	308
75147	125.1	127.1	2.0	28	25	184	<1	<0.008	1720
75148	127.1	129.8	2.7	5	24	85	<1	0.01	570
75149	135.4	137.5	2.1	4	28	69	<1	<0.008	1170
75150	140.2	142.8	2.6	6	35	43	<1	<0.008	106
75151	142.8	145.4	2.6	6	22	88	<1	<0.008	210
75152	154.1	157.1	3.0	39	30	53	<1	<0.008	736

5 cm

782306

PASMINCO EXPLORATION
A Division of Pasminco Australia Limited

COMPILED : NKM/PMQ
DATE : Sept., 1995
DRAWN : G.M.B.
REVISIONS :
FILE : YNC16_A1
DRAWING No.

E.L. 11/85 – YOLANDE JV
NEWTON CREEK
DRILL SECTION
YNC16
256° AMG

SCALE 1:1000 0 20 40 m

FIG. No. 22

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
YNC16

PHYSICAL PROPERTIES / RECOVERIES

Depth	Rec %	Mag	SG	Formn	Lith	Depth	Rec %	Mag	SG	Formn	Lith	Depth	Rec %	Mag	SG	Formn	Lith
238.10	100	0.02		AA	a/z												
241.10	100	0.04		AA	a/z												
244.10	100	0.08		AA	a/z												
247.10	100	0.08		AA	d/z												
250.10	100	0.06		AA	d/z												
252.80	63	0.05		AA	d/z												

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