

WOODCUTTERS MINE

80km Stuart Highway, via Darwin, Northern Territory 0800 PMB 60, Winnellie, NT 0821

Phone (089) 760 088 Fax (089) 760 108





29 OCTOBER 1994 TO 28 OCTOBER 1995

Project Name:

MOUNT MINZA

Map Sheets:

PINE CREEK SD 52-08 1:250,000

Commodities:

LEAD, ZINC GOLD

Author:

I.K. BUTLER

Date:

28 November, 1995

Volumes:

VOLUME 1 OF 1

Accepted by:

grander.

Distribution:

- 1. NT Department of Mines and Energy
- 2. Woodcutters Mine, NT
- 3. Posex Adelaide

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Report No: 20017

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Report No:

20017

Title:

ANNUAL REPORT FOR YEAR FOUR

EXPLORATION LICENCE 7506

MOUNT MINZA AREA, NORTHERN TERRITORY

29 OCTOBER 1994 - 28 OCTOBER 1995

Author:

I.K. Butler

Date:

29 November 1995



SUMMARY

EL 7506 is part of a contiguous block of tenure in the Waterhouse-Mt Minza area south of Batchelor, Northern Territory which is being explored by the Woodcutters Operation. The licence is prospective for Woodcutters vein type and stratiform base metal mineralisation.

The geology of the licence dominantly comprises sediments at the lower Proterozoic Pine Creek Geosyncline. They are carbonaceous mudstone, dolomite, chert, iron formation and greywacke of Whites Formation and South Aligator Group intruded by Zamu dolerite and later lamprophyre dykes. The sediments have been folded into a broad south plunging anticline.

Earlier exploration outlined a prominent co-incident lead-zinc C horizon geochemistry anomaly. Exploration during Year Three involved the drilling of two diamond drillholes to test the geochemical anomalies. The drilling revealed base metal sulphides are associated with strongly altered and sheared mafic igneous rocks that intruded a folded sequence of variably dolomitic carbonaceous mudstone. Exploration during Year Four was directed towards evaluating the gold potential and comprised stream sampling and analyses of pulps from earlier RAB programmes. The results were disappointing.

1. INTRODUCTION

Exploration Licence 7506 is located approximately 5km southeast of Batchelor. The licence was granted to Aztec Mining Company Ltd on 29 October 1991, for a period of six years. Aztec Mining Company was taken over by Posgold in early 1994 and the Woodcutters operation is now owned by Normandy Metals, the metals arm of the Normandy Group. The licence has been subsequently transferred to Normandy Metals. A partial relinquishment at the end of Year Two reduced the EL to six blocks and a further partial relinquishment at the end of Year Three reduced the EL to four blocks.

The licence is considered to be prospective for base metals and gold.

This report covers work conducted in the fourth year of tenure and proposes a work program and expenditure for Year Five.

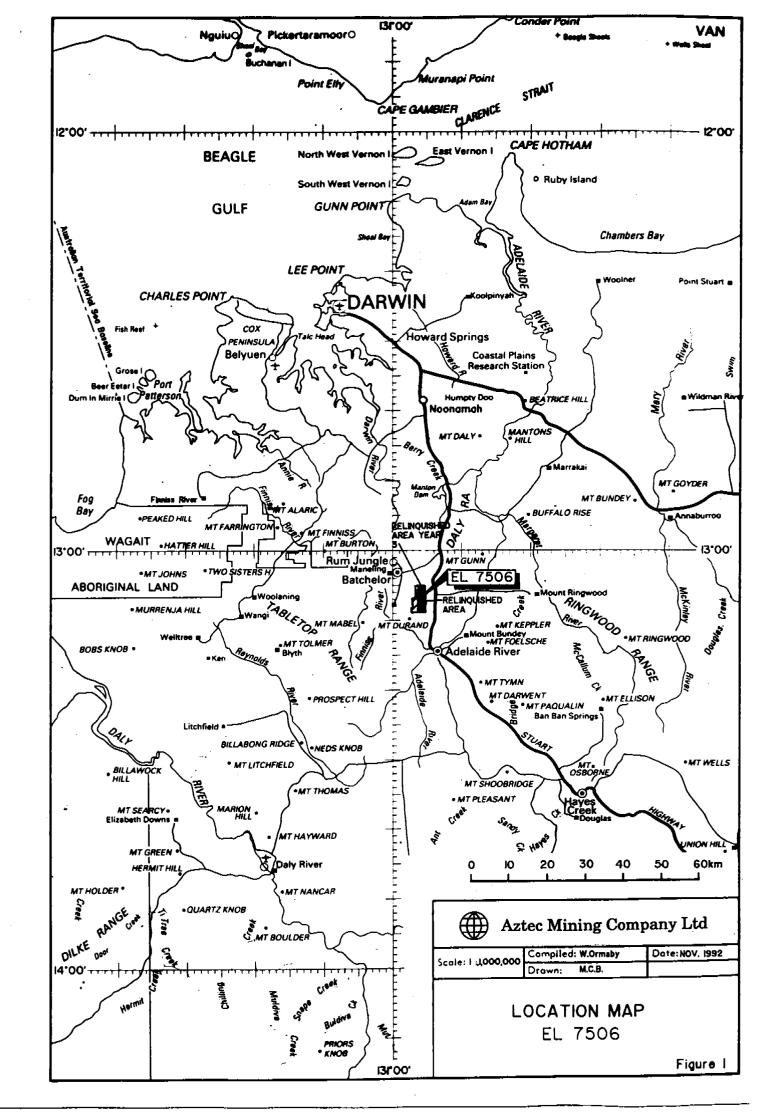
2. CONCLUSIONS

- 1. Lead and zinc C horizon geochemistry anomalies at Mt Minza are sourced from base metal sulphides located in strongly altered and sheared mafic igneous rocks which intrude folded sediment of Whites and Koolpin Formation.
- 2. Petrological work has revealed the timing of the base metal mineralisation to be before deformation.
- 3. Poor BLEG stream sample results has downgraded the potential for gold mineralisation within EL 7506.
- 4. Further diamond drilling is required to test structural and stratigraphic targets at the Mt Minza base metal geochemical anomaly.

3. PREVIOUS EXPLORATION

During 1952, the BMR conducted an airborne radiometric survey of the district (Wood and McCarthy, 1952) and identified the Waterhouse No. 1 radiometric anomaly, which is located on the western central part of EL 7506. Follow up geophysical work was carried out in 1957 (Daly and Tate, 1958) and 1960 (Douglas, 1962). In the mid 1960s TEP (a joint venture between the Commonwealth Government and Consolidated Zinc Pty Ltd) completed six diamond drill holes on the Waterhouse No. 1 Prospect and located only traces of uranium and copper mineralisation (Swingler, 1980).

In 1965, the BMR carried out a reconnaissance geological, geochemical and geophysical survey over the western part of the area now covered by EL 7506 (Shatwell and Duckworth, 1966). Auger holes were spaced 122m (400 feet) apart along east-west traverses spaced at 732m (2400 feet) intervals. Bottom hole, "C" horizon samples were collected and assayed for Cu, Pb, Ni, Co, U and P, and holes were radiometrically probed. Electromagnetic and radiometric surveys were also conducted along the regional traverses.



The most intense Slingram (EM) anomalies were initially followed up in 1965 by infill traverses at 122m (400 feet) intervals, with auger holes spaced 61m (200 feet) apart. Samples were assayed for Cu, Ni and Co and holes probed for radioactivity. This work was completed over the southwestern portion of EL 7506 in 1966 (Semple, 1967).

Further EM, ground radiometric, magnetic and I.P. surveys were carried out by the BMR in the region in 1966 (Farrow, 1967).

CRA Exploration held exploration licence 610 in the early 1970s. This licence covered a large area which included the current EL 7506. Work carried out included regional geological mapping, and stream sediment sampling (Marmant, 1973 a & b).

Between 1978 and 1979, most of the current EL 7506 was covered by four separate exploration licences. Occidental Minerals Corp held EL's 1755 and 2201 which covered the northern and eastern sections of EL 7506. Occidental carried out -80 mesh soil sampling on the western side of EL 7506. Samples were assayed for Cu, Pb, Zn, Co, Ni, Mn and U. An approximately north-south tending line of Pb soil anomalies were located immediately to the west of EL 7506, whilst several isolated anomalies also occurred within the licence. Geological mapping was done in conjunction with the soil sampling. No new uranium anomalies were located by this program, and it was concluded that the anomalous Pb was probably related to quartz veins. The remainder of Occidental's work focussed on uranium exploration and included: track etch and ground radiometric surveys with RAB and two diamond drill holes for follow up. No significant mineralisation was intersected and consequently EL's 1755 and 2201 were relinquished (Swingler, 1980).

Uranerz held EL 1858 which was located in the southwestern corner of the current EL 7506. Gridding, aerial photograph interpretation, reconnaissance geology and ground radiometrics were carried out. The results were not encouraging, and the licence was therefore relinquished (Uranerz, 1980).

At the same time, Marathon Petroleum Australia Ltd were conducting exploration on EL 1701, part of which was situated in the southeastern corner of EL 7506. An airborne radiometric survey, photogeological interpretation, ground radiometric and radon surveys were carried out. No significant results were obtained.

No further work appears to have been done on the area until the granting of EL 7506.

In the first year of tenure, Aztec Mining Company conducted literature research, geochemical data compilation, a detailed aeromagnetic and radiometric survey, processing of airborne data, gridding and mapping and geological/geophysical interpretation of the data. In the second year, Aztec Mining carried out infill RAB drilling which delineated large Cu, Pb and Zn geochemical anomalies. In the third year Normandy Metals drilled two diamond holes to test the coincident Cu, Pb, Zn geochemical anomalies. Base metal sulphides are located in altered igneous rocks.

4. WORK CARRIED OUT - YEAR FOUR

4.1 STREAM SAMPLING

A total of eleven BLEG (Bulk Leach Extractable Gold) and four -40# stream sediment samples were collected from streams draining EL 7506 (see Figure 2 for location). The BLEG samples comprised approximately 5 kgs of -2mm sized active stream sediment. The samples were high in organic material and consequently they were split into two 2 kg samples in order to carry out orientation work on the effect of pre-leaching the material to remove the organics. The results are presented in Appendix I. A comparison between results from the pre-leached and high organics shows little difference, however further orientation work is required. The BLEG samples were leached at the Normandy Exploration Laboratory in Perth and analysed at Analabs by AAS aqua regia digest, Method GG346. The -40# samples were analysed at Assaycorp, Pine Creek for Au by Fire Assay (FA50 method) and Cu, Pb, Zn, Ag, Ni, Co, Mn and Fe by AAS (MA3 method).

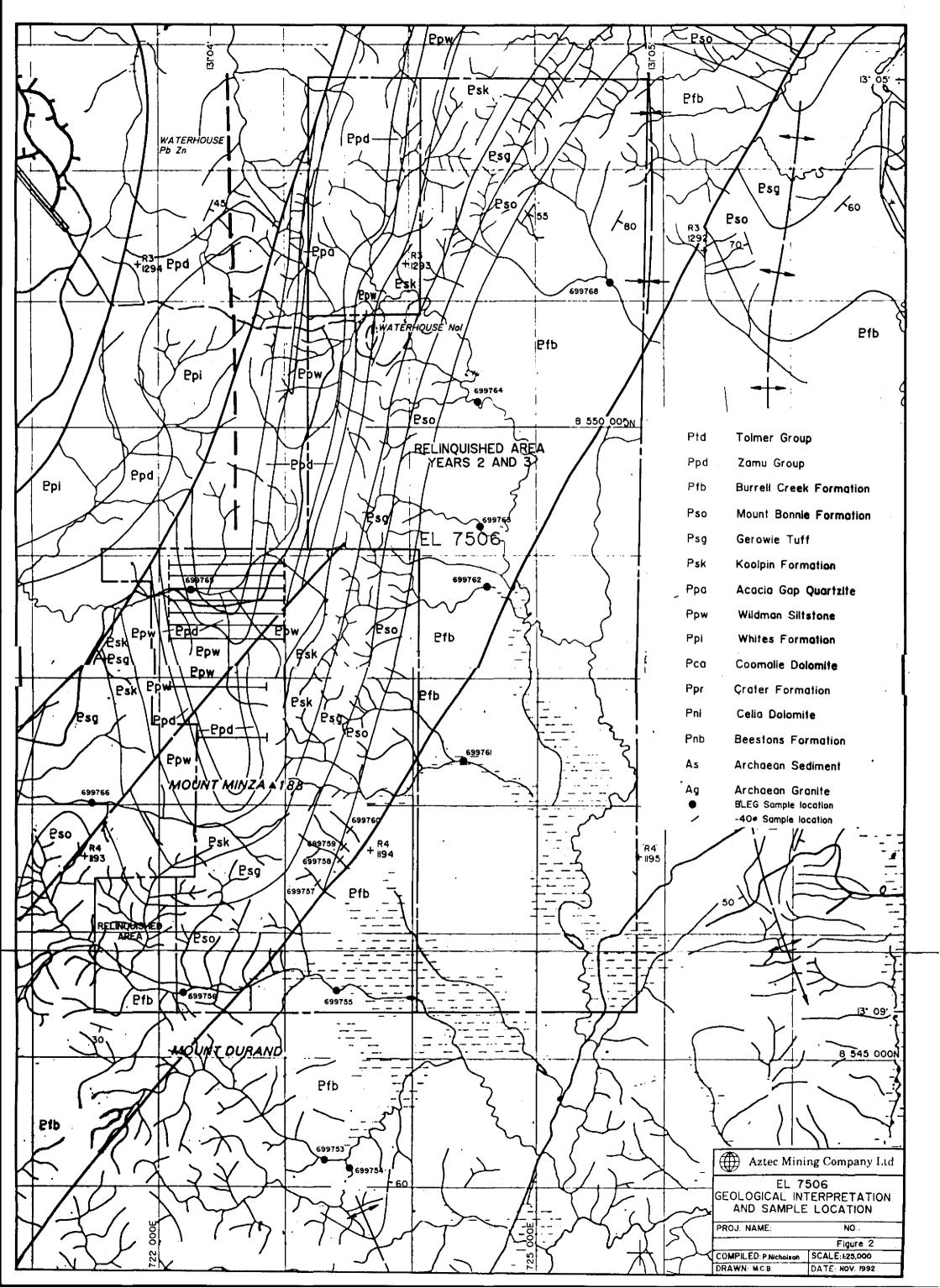
The gold values are low and have downgraded the potential for gold mineralisation within and adjacent to EL 7506.

4.2 PULP ANALYSES

Pulps from RAB drilling conducted during Year Two were retrieved and analysed for gold at Assaycorp by Fire Assay (FA50 method). The location of the samples are plotted on Figure 3 and analytical results are in Appendix II. The gold values are all low.

4.3 PETROLOGY

A total of 8 samples from diamond drill hole MMD2 were submitted to R. England in Townsville for petrographic descriptions (see Appendix III). The base metal sulphide mineralisation is associated with mafic igneous rocks that have been strongly altered and deformed, however there is evidence that the mineralisation occurred before the peak of deformation. The mineralisation was initially interpreted to occur in primary carbonate lithologies.



5. GEOLOGY AND MINERALISATION

Exploration Licence 7506 is underlain by Lower Proterozoic sediments of the Mt Partridge, South Alligator and Finniss River Groups. The Mt Partridge Group sediments include carbonaceous and dolomitic shales of the Whites Formation and siltstones of the Wildman Siltstone with interbedded quartzite of the Acacia Gap Quartzite Member. The overlying carbonaceous shales and cherts (possibly altered carbonates) of the Koolpin Formation, light grey mudstones and albitic cherts of the Gerowie Tuff and siltstones and haematitic cherts (banded iron formation) of the Mount Bonnie Formation comprise the South Alligator Group. The conformably overlying Burrell Creek Formation of the Finniss River Group consists mainly of siltstones with interbedded greywackes. Sediments of the Mt Partridge Group have been intruded by largely conformable dolerites of the Zamu Dolerite. Cainozoic laterites and recent alluvial sediments obscure bedrock in places.

The structure of the area is dominated by a south plunging anticline centred on the western side of the exploration licence. A number of major NE-SW trending faults are interpreted to cut across the stratigraphy.

The only recorded mineralisation in the licence area is located at the Waterhouse 1 Prospect, where minor uranium and copper have been encountered (see Section 3).

6. EXPENDITURE FOR YEAR TWO

Salaries/labour	2,312
Consultants	
Contract Services	
Vehicle Costs/Fuel	350
Assays	1,380
Consumables	110
Administration (15%)	
TOTAL	\$5 993

7. PROPOSED WORK PROGRAMME AND EXPENDITURE - YEAR FIVE

The proposed work program for Year Five is as follows:-

- 1. Re-evaluation of the Mt Minza base metal anomaly
- 2. Follow-up drilling if warranted.

The proposed expenditure is \$5,000

Moodcutt	ers Mine			EXPLORATION DE	PARTHENT		F110 ;KDKZARAK	
				€L 7506 HT I	ATNZA		Scale :1 : 10000	
			RAB AND	DIAMOND DRILL H		s	Date :65 Nov 198	
· · · · · · · · · · · · · · · · · · ·							Figure 3	
	5000 E	-	5500 E			8000 E		
							8549000mN	
8000 N							8000 N	
Approx EL boundary z 7500	18 18 18 18 18 18 18 18 18 18 18 18 18 1				A CONTROL OF THE CONT		7500 N	
		·					8548000mN	
7000 N	\$ \$ \$ \$ \$ \$	2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	30 00 00 00 00 00 00 00 00 00 00 00 00 0	34,52,5			7000 N	
722000mE	5000 E		5500 E 47 49 49 49 49 49 49 49 49 49 49 49 49 49	723000mE		8000 E	8500 N	

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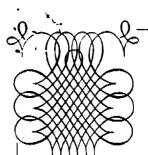
9. REFERENCES

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APPENDIX I

STREAM SAMPLES AND
BLEG ORIENTATION WORK



2661 130 n 7

ASSAYCORP PTY LTD

A.C.N. 052 982 911

174 Ward Street, Pine Creek, N.T. 0847

P.O. Box 41, Pine Creek, N.T. 0847

Telephone (089) 76 1262 Facsimile (089) 76 1310

ASSAY CODE: AC 24874 Facsimile (C

Nicron Resources Ltd - Woodcutters Mine Private Bag 60 Winnellie NT 0821 Distribution

Ian Butler

EL 7506

Client Reference: 10114

Project : WATER HOUSE

Cost Code: -40# Stream

Date Received:

05/10/95

Number of Samples:

4

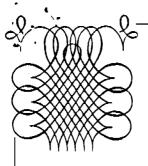
Sample Preparation

Analysis	Analytical Technique	Precision & Accuracy	Detection Limit	Data Units	
Au	FA50	Acc. ± 15%	1	ppb	
Au(R)	FA50	Acc. ± 15%	1	ррь	
Cu	AAS/MA-3	Prec. ± 10%	. 1	ppm	
РЬ	AAS/MA-3	Prec. ± 10%	2	₽₽m	
Zn	AAS/MA-3	Prec. ± 10%	1	ppm ·	
As	AAS/MA-3	Prec. ± 10%	1	ppm	
Ni	AAS/MA-3	Prec. ± 10%	2	ppm	
Co	AAS/MA-3	Prec. ± 10%	1	, PPm	
Mn	AAS/MA-3	Prec. ± 10%	2	mqq	
Fe	AAS/MA-3	Prec. ± 10%	0.01	percent	

THUMBER	
ECKED	1
1	
OVED BY	
AUTHORISED	
į.	
DAE	

Authorisation: Ray Wooldridge

Report Dated: 13/10/95



A.C.N. 052 982 911

174 Ward Street, Pine Creek, N.T. 0847

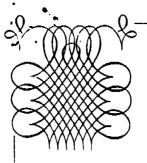
P.O. Box 41, Pine Creek, N.T. 0847

Telephone (089) 76 1262 Facsimile (089) 76 1310

ASSAY CODE: AC 24874

Page 1 of 2

Sample	Au (ppb)	Au(R) (ppb)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)	Ni (ppm)	Co (ppm)
699757	2		43	4	19	10	25	26
699758	2	2	35	. 5	14	8	24	25
699759	3		37	4	16	7	26	27
699760	1		34	12	18	7	. 23	23



A.C.N. 052 982 911

174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 24874

Page 2 of 2

Sample	Mn (ppm)	Fe (%)		
699757	2170	2.89		
699758	1470	2.38		
699759	1960	2.66		
699760	1710	2.49		



NORMANDY EXPLORATION LIMITED

A.C.N. 008 308 690

WELSHPOOL LABORATORY
3 Bellows Street, Welsh; col
Western Australia 6372

Phone (09) 356 2074 Fax (09) 356 2216

MEMORANDUM

To:

Ian Butler,

From:

Bill Griffin

Copy:

Nigel Radford

Date:

Tuesday, October 24, 1995

SUBJECT:

BLEG SAMPLES. 399753 - 699770.

IAN,

REFER TO ASSAY REPORTS PE 010811 and 12.

AND DATA SHEET SUPPLIED.

I have examined the data and an obvious relationship is not apparent to me. These samples have the following problems;

Variable oversize cortaining both inorganics and organic trash.

The natural pH is acid, probably caused by water soluble organics.

Alkali reagent consumption is high due mainly to organic reactions.

Pre Leach Experiment.

In an attempt to clean up these samples, I took a separate 2kg sample and pre conditioned it with chemicals, then disposing of the solution before leaching the the residue in the usual manner. The PL results show no real reduction in the background problem. Do either set of results meet with your expectations? Suggestion;

We must try to find a way of cleaning up this type of sample, either with a physical or chemical procedure before bleg leaching, I propose we discuss the problem with Nigel and plan some sort of orientation study.

REGARDS, BILL.

Regards Bill Griffin

NORMANDY EXPLORATION PER

FAX NO. 61

9 4803270

TO;

IAN BUTLER.

23/10/95.

FROM;

BILL GRIFFIN.

COPY:

NIGEL RADFORD.

SUBJECT; BLEG SAMPLES. 699753 - 699770.

REFER;

ASSAY REPORT. PE 010811 AND 12.

SOME SPECIFIC DATA.

SAMPLE	+ 500	- 500	- 200	- 50um	MAGS.	NAT.	ALK.
NUMBER	. 000	+ 200	+ 50		+ 50un	рН	CONS
MOMPEL	%	%	%	%	%		g/kg.
699753	47.8	21.4	9.5	21.3	0,2	5.1	2.4
54	8.0	10.4	29.0	52.6	0,1	4.2	4.7
	1.1	3.5	29.1	66.2	0.0	4.4	4.7
55 50	3.0	14.7	36.1	46.2	0.0	4.6	4.4
56		12,9	14.7	58.1	0.0	4.1	4.6
699761	14.3	9.5	13.1	32.0	1.1	5.1	4.3
62	45.4	6.9	21.4	66.0	0.1	4.3	4.9
63	5.7		31.0	48,8	0.3	6.4	4.3
64	7.1	13.1	27.6	63.8	0.2	5.0	4.0
65	3.8	4.8		47.9	1.2	4.3	4.9
6 6	21.6	10.0	20.5	41.9	1.2	-1. 0	
67			00.0		0.1	4.4	4.2
68	4.0	9.6	22.2	64.2	0.1	7.7	-1.4-
69			•		-		_

REGARDS, BILL.

699770 END.



Western Australia 6106 P.O. Box 210, Bentley, W.A. 6102 Telephone: (61 9) 4587999 Facsimilie: (61 9) 4582922

Job No: PE010811
Project Code: 065.000.1110.4097
Order No: 24448
Date Received: 19/10/95
Date Reported: 20/10/95

ANALYTICAL REPORT

I Butler			
Normandy Exploration Ltd PO Box 1143 West Perth			
WA 6872			
Number of pages of report Number of Samples	: 1 : 14	(excl cover sheet) First Sample: 699 Last Sample: 699	753 770
Invoice to: I Butler		Electronic Data Transmission : Modem Facsimile	/ /
Normandy Exploration Ltd PO Box 1143 West Perth		Disk Report	
WA 6872	·		
Results to: Bill Griffin			
Normandy Exploration Ltd PO Box 1143 West Perth			•
WA 6872			
Results to:			
Remarks :			
		· · · · · · · · · · · · · · · · · · ·	

Mr Nigel Ball Manager-Minerals

This report relates specifically to the sample(s) tested in so far as that the sample(s) is truly representative of the sample source as supplied.



ANALYSIS DESCRIPTION

Job number

: PE010811

Order number

: 24448

Scheme code

: GG346 - Zincon/AAS

Zincon/aqua regia digest/AA\$

Au Cu Ag

: Gold : Copper : Silver



Western Australia 6106
P.O. Box 210, Bentley, W.A. 6102
Telephone : (61 9) 4587999

Facsimilie: (61 9) 4582922

Job No: PE010811

Order No: 24448
Project Code: 065.000.1110.4097
Report Date: 20/10/95
Report Status: Final
Page: 1 of 1

ANALYTICAL DATA

 Sample	Au	Cu	Ag
699753	0.30	0.20	11.0
699754	0.80	0.19	29.5
 699755	0.80	0.46	32.0
699756	0.90	0.40	27.5
 699761	0.40	0.41	13.5
 699762	0.45	0.36	25.5
 699763	0.45	1.09	16.0
 699764	0.60	1.17	41.5
 699765	0.30	0.72	98.5
699766	0.40	1.17	15.5
 699767			
699768	0.40	0.25	15.0
699769			
 699770	-		

Method	GG346	GG346	GG346
Units	ppb	ppm	ppb
Detection Limit	0.01	0.01	0.5

Notes:

N.A.

= not analysed

= element not determined

= insufficient sample

L.N.R.

= listed not received



ACN 004 591 664 52 Murray Road, Welshpool Western Australia 6106 P.O. Box 210, Bentley, W.A. 6102 Telephone: (61 9) 4587999 Facsimilie: (61 9) 4582922

Job No: PE010812
Project Code: 065.000.1110.4097
Order No: 24449
Date Received: 19/10/95
Date Reported: 20/10/95

ANALYTICAL REPORT I Butler Normandy Exploration Ltd PO Box 1143 West Perth WA 6872 Number of pages of report Number of Samples : 1 : 14 (excl cover sheet) First Sample: PL53 Last Sample: PL70 Electronic Data Transmission: Invoice to: Modem Facsimile I Butler 77 Disk Report 11 Normandy Exploration Ltd PO Box 1143 West Perth WA 6872 Results to: Bill Griffin Normandy Exploration Ltd PO Box 1143 West Perth WA 6872 Results to: Remarks:

Mr Nigel Ball

Authorised by
On behalf of:

Manager-Minerals

This report relates specifically to the sample(s) tested in so far as that the sample(s) is truly representative of the sample source as supplied.



ANALYSIS DESCRIPTION

Job number

: PE010812

Order number

: 24449

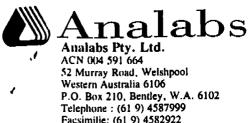
Scheme code

: GG346 - Zincon/AAS

Zincon/aqua regia digest/AAS

Au Cu Ag

: Gold : Copper : Silver



Facsimilie: (61 9) 4582922

Job No:

PE010812

ANALYTICAL DATA

Order No: 24449
Project Code: 065.000.1110.4097
Report Date: 20/10/95
Report Status: Final
Page: 1 of 1

	Sample	Au	Cu	Ag
	PL53	0.60	0.29	16.5
	PL54	0.75	0.21	30.5
	PL55	0.85	0.34	32.0
	PL56	0.95	0.38	32.5
	PL61	0.55	0.53	17.0
	PL62	0.55	0.31	27.5
	PL63	0.45	1.08	16.0
1	PL64	0.75	1.08	40.0
	PL65	0.35	0.61	99.0
	PL66	0.50	0.72	16.5
···	PL67			
	PL68	0.30	0.20	13.5
	PL69			. ;
	PL70			-

Method	GG346	GG346	GG346
Units	ppb	ppm	ppb
Detection Limit	0.01	0.01	0.5

Notes:

N.A.

= not analysed

L.N.R.

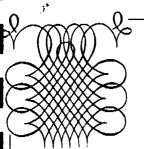
= element not determined

= insufficient sample

= listed not received

APPENDIX II

ANALYTICAL RESULTS RAB AND DDH SAMPLE PULPS



ASSAYCORP PT

174 Ward Street, Pine Creek, N.T. 0847

P.O. Box 41, Pine Creek, N.T. 0847

Telephone (089) 76 1262

Facsimile (089) 76 1310

AC 19398 ASSAY CODE:

Nicron Resources Limited

Distribution IAN BUTLER

EL 7506

Client Reference: 8223

Date Received:

27/01/1995

Project : MT

278

Cost Code:

Sample Preparation

Date Received:

MI MINZA Date Received:

Number of Samples:

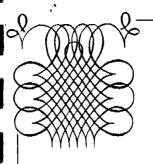
Me: Check sampling for Ay

MMD 1, MMD 2 and RAB drilling (1993)

Analysis	Analytical Technique	Precision & Accuracy	Detection Limit	Data Units	
Au	PA50	Acc. <u>+</u> 15%	t	ppb	
Au(R)	PA50	Acc. <u>+</u> 15%	1	ppb	

Authorisation: Ray Wooldridge

Report Dated: 27/01/1995



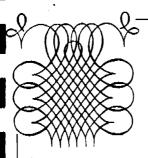
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	Sample	Au (ppb)	Au(R) (ppb)	,
MMD1	0-2	1		
MMD1	2-4	1		
MMD1	4-6	2		
MMD1	6-8	1		
MMD1	8-10	2	1	
MMD1	10-12	1		
MMD1	12-14	2		
MMD1	14-16	1		
MMD1	16-18	1		
MMD1	18-20	1		
MMD1	20-22	1		
MMD1	22-24	1		
MMD1	24-26	. <1		•
MMD1	26-28	1		
MMD1	28-30	1		
MMD1	30-32	<1		•
MMD1	32-34	<1		
MMD1	34-36	1		
MMD1	36-38	<1		
MMD1	38-40	<1	<1	
MMD1	40-42	<1	·	
MMD1	42-44	<1		
MMD1	44-46	<1		
MMD1	46-48	<1		
MMD1	48-50	1	<1	



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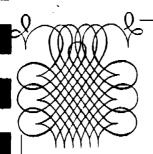
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	Sample	Au (ppb)	Au(R) (ppb)			
MMD1	50-52	<1				
MMD1	52-54	1			•	
MMD1	54-56	<1				
MMD1	56-58	1				
MMD1	58-60	<1		 		·
MMD1	80.5-81.0	1				
	585751					
	585752	7				
	585753	i				
	585754			 		<u> </u>
	585755					
	585756					
	585757					,
	585758					
	585759			 	· • • • • • • • • • • • • • • • • • • •	,···
	585760	/				
	585761	•				
	585762	,				
	585763					
	585764			 ·		
	585765					
	585766	,				
	585767					
	585768	•	•			
	585769					



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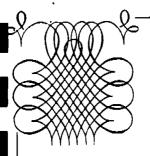
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	Sample	Au (ppb)	Au(R) (ppb)	<u> </u>		<u>-</u>	
	585770						
	585771						
	585772						
	585773	•					
	585774						
	585775		·				
	585776						
	585777						
	585778						
	585779						· · · · · · · · · · · · · · · · · · ·
MMD2	60.1-62.3	<1					
MMD2	62.3-65.4	<1					
MMD2	65.4-68.5	1					• •
MMD2	68.5-71.6	<1					
MMD2	71.6-73.4	<1				<u></u> ,	
MMD2	73.4-75.1	<1					
MMD2	75.1-77.4	1	1				
MMD2	77.4-80.5	<1	•				
MMD2	80.5-82.4	<1					
MMD2	82.4-84.1	<1			 	· 	
MMD2	84.1-87.1	<1					
MMD2	87.1-90.1	1					
MMD2	90.1-93.1	<1					
MMD2	93.1-96.1	<1	1				
MMD2	96.1-99.1	1			•		

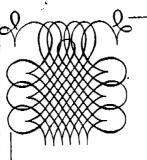


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	Sample	Au (ppb)	Au(R) (ppb)			
MMD2	99.1-102.1	<1				
MMD2	102.1-105.1	1				
MMD2	105.1-108.1	2				
MMD2	108.1-111.1	<1				
MMD2	111.1-114.1	4				
MMD2	114.1-117.1	1				
MMD2	117.1-120.1	<1				
MMD2	120.1-123.1	1		•		
MMD2	123.1-126.1	1				
MMD2	126.1-129.1	1				
MMD2	129.1-132.1	1				
MMD2	132.1-135.1	1	1			
MMD2	135.1-138.1	1	<1			
MMD2	138.1-141.0	<1				·
MMD2	140.0-144.0	1		<u> </u>		
MMD2	144.0-147.1	1				
MMD2	147.1-150.1	<1		•		
MMD2	150.1-153.1	1				
MMD2	153.1-156.1	1				
MMD2	156.1-159.0	<1			· · · · · · · · · · · · · · · · · · ·	
MMD2	166.1-168.1	1				
MMD2	168.1-171.1	3	2			
MMD2	171.1-174.1	1	<1			
	564551	<1				
	564552	1				



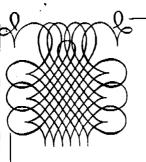
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Sample	Au (ppb)	Au(R) (ppb)	
564553	2	1	
564554	5	7	
564555	4	5	
564556	1		
564557	1		
564558	<1		· ·
564559	1		
564560	<1		
564561	<1		
564562	<1	·	
564563	2		
564564	<1	<1	
564565	<1		
564566	<1		
564567	3	4	
564568	<1		
564569	1		
564570	1		
√ 564571	<1		
564572	1		
564573	1		
564574	<1		
564575	<1		
564576	<1		
564577	<1		



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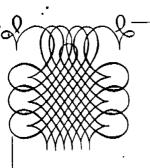
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Sample	Au (ppb)	Au(R) (ppb)						
564578	2	4						
564579	1							
564580	<1							
564581	1							
564582	<1	<1						
564583	1							
564584	1							
564585	<1		,					
564586	2	1						
564587	1				·			
564588	1							
564589	3	4						
564590	1							
564591	<1	<1						
564592	<1	<u></u>			· · · · · · · · · · · · · · · · · · ·			
564593	<1							
564594	5	4					•	
564595	2	4						
564596	<1							
564597	<1					 -		
564598	<1							
564599	<1							
564600	<1			•				
564601	1	1						
564602	2	3						



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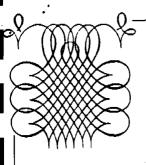
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Sample	Au (ppb)	Au(R) (ppb)		
564603	<1	1		
564604	<1			
564605	<1			
564606	<1			
564607	2			
564608	4	5		
564609	<1			
564610	. 1			
564611	<1			
564612	<1			
L-7374 564613	1	· · · · · · · · · · · · · · · · · · ·		
564614				
564615		•		
564616			•	
564617			· · · · · · · · · · · · · · · · · · ·	
564618)		
564619				
564620	1			
564621	1			
564622				
564623				
564624				
564625				
564626				
564627		•		



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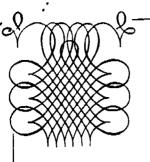
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AY CODE: AC	19390						9 01, 12
Sample	Au (ppb)	Au(R)					
564153	1					· · · · · · · · · · · · · · · · · · ·	······································
564154	· 3						
564155							
564156							
564157				<u></u>			
564158	3		· ·				
564159	3	2					
564160	6	5					
564161	3						
564162	1				<u> </u>	,	
564163	1	-					
564164	1			•			
564165	2						•
564166	1						
564167	2	2	. <u> </u>				<u> </u>
564168	1						
564169	2						
564170	2						
564171	1						
564172	1						
564173	<1						
564174	1						
564175	1						
564176	4	4					
564177	3	2					



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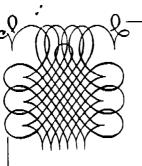
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Sample	Au (ppb)	Au(R) (ppb)		
		<u></u>	<u> </u>	
564178	2			
564179	2			
564180	2			
564181	3			
564182	<1 			 <u>, . </u>
564183	2	·		•
564184	3			
564185	1		•	
564186	1			
564187	4	5		
564188	5	6		
564189	1			
564190	2	1		,
564191	2			
564192	3		e e	
564193	2			
564194	1			
564195	1			
564196	. 1			
564197	1			 ·
564198	1	·		
564199	1			
564200	<1			
564201	1	1		
564202	1		•	



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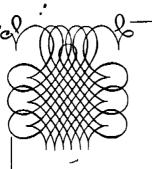
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Sample	Au (ppb)	Au(R) (ppb)		
564203	4	5		
564204	2			
564205	3			
564206	6	5		•
564207	3			
564208	8	7		
564209	<1	<1		
564210	2 .			
564211	1	1		
564212	4	3		
564213	3			
564214	3			•
564215	5	3		•
564216	2			
564217	3	· 		
564218	2			
564219 ·	2			
564220	3			
564221	6	4		
564222	4	4		<u>'</u>
564223	6	7		
564224	1			
1 295.2-297.2	1			
1 296.2-297.2	2			
ANOUT 1	3		v	



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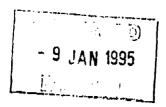
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Samp	ole	Au (ppb)	Au(R) (ppb)	
CLEANOUT	2	1	2	
CLEANOUT	3	2		
CLEANOUT	4	4		

APPENDIX III

PETROGRAPHIC NOTES MMD2 SAMPLES



PETROGRAPHIC NOTES FOR 11 SAMPLES FROM THE PINE CREEK INLIER

Prepared for Ian Butler, Nicron Resources Ltd..

MMD2. Mainly highly deformed dolerite or lamprophyre intruding dolomitic Koolpin or lower Whites Formations.

MMD2, 74.4 m. Dolomite(?)-chlorite-quartz augen schist with disseminated sphalerite.

Carbonate (60%) forms 0.5-5 mm augen consisting of 0.1-3 mm anhedra. Chlorite (20%) occurs as trains of <0.5-mm flakes whose preferred orientation defines a very strong schistosity which anastomoses around carbonate augen. Quartz (15%) forms 10-100 μm anhedra, mainly in <0.2 mm-thick streaky layers associated with chlorite.

Anhedral 10-µm to 0.5-mm sphalerite (2%) occurs mostly with chlorite and quartz. Cores are usually fairly Fe rich (red-brown) but rims tent to be pale. Patchy blackening with fine chalcopyrite disease is very common. Slightly less common than pyrite is $\langle 0.1\text{-mm}$ anhedral to cube-shaped pyrite, some sprouting tiny needles of late marcasite. Traces of $\langle 10\text{-}\mu\text{m}$ chalcopyrite occur with sphalerite. Tiny traces of $\langle 10\text{-}\mu\text{m}$ flaky graphite occur mainly at the margins of carbonate augen.

Roughly prismatic <0.1-mm rutile (1%) is strongly concentrated in some chlorite trains.

The carbonate here and in may other samples in this suite shows a reaction to acid which is intermediate between those of calcite and dolomite. Much less reactive than the calcite at 121.2 m, it may be a particularly magnesian member of the dolomite-ankerite series.

The composition would be consistent with a dolomitic sediment, or a brecciated, then highly sheared dolerite or lamprophyre, in which the carbonate augen were amygdales.

MMD2, 94.0 m. Dolomite(?)-chlorite-quartz augen schist.

Most of the core sample is like the one from 74.4 m, though with less quartz, more rutile, and only the odd cluster of <0.2-mm sphalerite (some grains of which have very fine chalcopyrite disease at their margins).

The section contains a couple of 30-60 mm siliceous ?nodules, distinctly flattened into the foliation. They are dominated by 10-30 μm granoblastic quartz, with prominent $<50~\mu m$ -thick streaky lenses, parallel to the schistosity, of randomly oriented $<30-\mu m$ chlorite flakes. Some rare similar biotite flakes, and a slight dusting of rutile in some chlorite suggest that some at least of the chlorite may be a retrograde alteration product of

biotite. Quite common <0.1-mm whitemica flakes lie parallel with the schistosity. A dark, chloritic layer in the less siliceous ?nodule contains prominent mm-scale streaky clusters of 1-30 μm anhedral sphalerite and minor galena.

A 1 mm-thick stringer, probably a veinlet, of <0.1-mm anhedral and cube-shaped pyrite, and minor anhedral sphalerite lies at a low angle to the schistosity.

Lenses up to a few mm are rich in chlorite and very rich in <0.1-mm rutile prisms. These could be flattened clasts of brecciated Ti-rich dolerite or lamprophyre as at 121.2 m.

MMD2, 110 m. Chlorite-carbonate-whitemica schist with abundant leucoxenised ilmenite.

The rock consists mainly of <0.1-mm chlorite and subordinate whitemica flakes lying parallel to a very strong schistosity. Granular <30-µm quartz is quite minor. Anhedral <0.1-mm carbonate (20% of the rock, and probably dolomite) occurs in streaky lenses parallel to the foliation, most of them only 10-50 µm thick. A few of these up to 1x5 mm, containing prominent whitemica, may be highly flattened clasts. A few others up to 0.2 mm-thick are much more continuous and may be veinlets, since they cut the foliation at a very narrow angle, and commonly contain <0.1-mm anhedral-subhedral pyrite. Minor pyrite also forms disseminated 1-mm clusters slightly flattened in the cleavage.

About 10% of the rock consists of 2-50 μ m leucoxenised tabular ilmenite tablets, also parallel to the cleavage. Minor <0.2-mm clusters and lenses of these may be metamorphosed igneous Fe-Ti oxide grains.

There has probably been some concentration of Ti by loss of other components (especially silica) during cleavage development. Yet I tend to think that this is an intensely sheared, altered Ti-rich basaltic rock. It may have been fragmental, as seems to be the case for the 121.2-m sample. Retrograde alteration of ilmenite to leucoxene, and biotite to chlorite may have occurred together. Fresh ilmenite and biotite are preserved at 121.2 m where igneous fragments are recognisable.

 $\mbox{\sc MMD2},\ 121.2$ m. Metamorphosed, sheared breccia of fine-grained Tirich basalt or lamprophyre fragments.

This rock consists mainly of <0.1-mm biotite, chlorite, and whitemica flakes lying parallel to a very strong schistosity. Granular <30-µm quartz is very minor. Anhedral <0.1-mm calcite forms streaky layers and lenses parallel to the foliation, most of them only 10-50 µm thick: it fizzes much more strongly in acid than the ?dolomite in many other samples. A 1.5 mm-thick example is clearly a veinlet, isoclinally folded with an axial plane parallel to the foliation. 1-50 µm anhedral to tabular ilmenite (5%) is disseminated through the schist, but also forms <1-mm clusters (igneous relics?) slightly flattened into it. A small proportion of ilmenite is leucoxenised.

Prominent 1-30 mm basalt clasts have been flattened into

lenses parallel to the foliation. They are distinguished by 0.1-0.3 mm laths of albitised plagioclase, albite overgrowths with undulose extinction, <0.1-mm calcite and biotite, and 5-10% of 1-100 μm anhedral to tabular ilmenite. Biotite generally shares the foliation with the surrounding schist, which anastomoses around the pip-shaped fragments.

Minor <0.1-mm veinlets of fibre calcite cut the cleavage at a high angle, and are displaced slightly as they pass through the fragments. They almost certainly formed during the deformation. They pass through the isoclinally folded veinlet, which has a central zone containing prominent minor 1-100 μm subhedral pyrite and anhedral sphalerite blackened with a little chalcopyrite disease. Minor <50- μm chlorite flakes in the folded veinlet lie parallel to the axial plane. This places the timing of the Zn mineralisation early, before the peak of deformation.

The rock may have been a brecciated basalt, lamprophyre or fine dolerite. An intrusive breccia is possible, but perhaps brittle deformation was followed by a ductile event.

MMD2, 132.0 m. Chlorite-carbonate schist with abundant leucoxe-nised ilmenite.

This is a relative of the sample from 110 m, coarser grained and lacking whitemica. Evenly disseminated ilmenite (5-10%) occurred mostly as 0.1-0.5 mm tablets strongly aligned in the chlorite foliation. All these are altered to clumps of 1-50 μm rutile (leucoxene).

Minor tabular <200- μ m masses of pyrite, also aligned in the foliation, may be retrograde alteration products of pyrrhotite. Rare <20- μ m anhedral chalcopyrite is weakly concentrated in some layers.

It seems likely that this is a metamorphosed, intensely sheared Ti-rich fine-grained dolerite, basalt, or basaltic fragmental rock.

MMD2, 154.5 m. Mineralised, metamorphosed, carbonated, lightly deformed amygdaloidal basalt or intrusive breccia.

About half the rock consists of 0.3-3 mm roughly spherical amygdales of <0.5-mm anhedral and sparry calcite, some with cores of radiating chlorite and <0.5-mm anhedral quartz. Surprisingly, few are flattened into the chlorite foliation (q.v.). The cell walls consist of 10-50 µm granular quartz and minor ?dolomite, and abundant <100-µm flaky chlorite, with about 10% of <150-µm tabular leucoxenised ilmenite and clumps of granular rutile. A moderate schistosity is defined by the preferred orientation of chlorite in the cell walls but not in the amygdales themselves, which may be loci of later replacement. A few mm-thick trains dominated by chlorite lie parallel to the foliation.

Sulphides disseminated through the amygdales and cell walls are anhedral 1-200 μm sphalerite, pyrite (some roughly cubeshaped), galena, and chalcopyrite. Combined Zn, Pb, and Cu (in that order of abundance) probably form 2% of the rock.

Coarse fragments may be hard to distinguish: it is possible that the rock was an intrusive breccia.

MMD2, 166 m. Mineralised, metamorphosed, carbonated highly deformed amygdaloidal basalt.

This seems to be a more deformed relative of the rock at 154.5 m. Abundant 20- μ m to 1-mm anhedral ?dolomite includes some flattened <2-mm augen enveloped by trains of <0.1-mm chlorite flakes dusted with prominent <50- μ m rutile. Parallel <1 mm-thick trains of chlorite occur every few mm. Granular <50- μ m quartz is quite minor.

Disseminated sulphides are <0.2-mm roughly cube-shaped pyrite (2%), and <0.5-mm amoeboid aggregates of fine sphalerite (<0.5%). Some sphalerite is red-brown (i.e. Fe rich), some is colourless (Fe-poor), and some is blackened by very fine chalcopyrite disease. It generally occurs in carbonate-rich lenses.

 $\mbox{MMD2, }178.0$ m. Mineralised, metamorphosed, carbonated highly deformed amygdaloidal basalt.

This is a relative of the 166-m sample, in which $<\!50-\mu m$ whitemica flakes supplant more than half the chlorite. Some whispy trains of whitemica are blackened with mainly submicron graphite. Quartz is rare but coarser grained (0.1-0.3 mm).

The Fe-Ti assemblage is pyrite-rutile. Rutile is fine grained (1-30 μ m) but very prominent. Pyrite forms masses of <1-mm anhedra and smaller subhedral cubes. Massive pyrite forms a 1.5 mm-thick veinlet cutting the foliation at a narrow angle. The walls of this veinlet are lined discontinuously with anhedral <0.5-mm ?dolomite and anhedral to prismatic <0.1-mm quartz. It is hard to see any sphalerite amongst the fine-grained rutile.

The graphite may be a reaction product of basalt and petroleum.

SAD 1. Pyritic altered lower member of the Coomalie Dolomite beneath unconformity.

SAD1, 128 m. Fairly massive (partly goethised) pyrite with minor quartz and sericite.

About half of the rock consists of 1-100 μm cubes and anhedra of pyrite. The finer-grained pyrite, especially that associated with whitemica (q.v.) is weathered to goethite. Pockets up to several mm across are dominated by <0.5-mm anhedral and fibre quartz with <50- μm subordinate whitemica flakes and minor rutile prisms.

Relict <0.5-mm laths of an unknown mineral, replaced by aggregates and less commonly single grains of quartz and whitemica, occur in pyrite masses. They suggest that the original rock replaced by pyrite etc. may have been basalt or dolerite.

GENERAL COMMENTS

Zn mineralisation

The evidence of veining in the important sample MMD2, 121.2 m, places the mineralisation before the peak of deformation. Mineralisation may have coincided with petroleum maturation.

Such high Zn/Cu is very odd for mineralisation associated with basalt/lamprophyre. It suggests that the igneous rocks are not the source of the metals. I have interpreted the carbonate augen as amygdales, and some ?fragmental igneous textures as intrusive breccia, suggesting that the mafic magma may have intruded soft sediment or more consolidated rocks containing abundant formation water. The dykes may have provided the thermal energy for the hydrothermal system. Dykes can also act as dams, localising and focussing mineralisation.

SAD 1.

The high Ni contents suggest that the mafic rock was a primitive one. Combined high Ni and Ti are much more compatible with an alkali basalt (i.e. lamprophyre) magma that a fractionated tholeite, which could have high Ti but would be low in Ni.

REFERENCE

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