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SML 548

[MOUNT] CHAMBERS GORGE

FINAL REPORT AT LICENCE SURRENDER FOR THE PERIOD 15/2/1971 TO 28/9/1971

Submitted by North Flinders Mines Ltd 1971

© 16/4/1985

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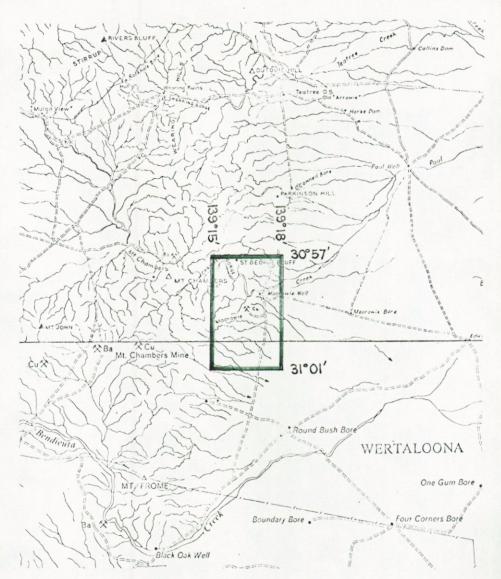
Minerals and Energy Resources

7th Floor

101 Grenfell Street, Adelaide 5000

Telephone: (08) 8463 3000 Facsimile: (08) 8204 1880





SCALE 1:250000

NORTH FLINDERS MINES N.L.

DOCKET D.M. 255/71 AREA 13 SQ MILES

1:250000 PLANS . COPLEY

. PARACHILNA

LOCALITY

S.M.L. No. 548

EXPIRY DATE 3.3.72

D.M.255/71.

TENEMENT S.M.L.548.
TENEMENT HOLDER. NOR NORTH FLINDERS MINES N.L.

REPORT

PLANS

WILSON.R.B. 1971.

Chambers Gorge. S.M.L. 548 July 1971. Final report

PGS.3-12

description of the same of the same		
B115-13	Moorowie Copper Mine grid rock chip geochemistry copper values (ppm)	(1657-1)
B115-15	Moorowie Copper Mine grid rock chip geochemistry zinc values (ppm)	(1657-2)
B115-34	Moorowie Copper Mine grid copper, lead, zinc detail rock chip.	(1657-3)
DRAWING 548-1	Location Map S.M.L. 548 S.A.	(pg-5)

FINAL REPORT

CHAMBERS GORGE

S.M.L. 548

R.B. WILSON

Chief Geologist

NORTH FLINDERS MINES LIMITED

JULY, 1971



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I INTRODUCTION

A small Special Mining Lease, No. 548, of approximately

13 square miles in area, was taken-up in the Chambers Gorge
Morrowie Mine area on 15th February, 1971, for a period of

Tenure of one year.

. /2

II PREVIOUS WORK AND GEOLOGY

Earlier work (Electrolytic Zinc Co. of A'sia Ltd.) had indicated that secondary copper-zinc mineralization associated with the main fault at the Moorowie Mine, was probably high-grade but occurring in narrow lenses of limited dimensions. However, detailed geological studies carried out by University of Adelaide Honours Students, suggested copper-lead-zinc mineralization in the area to be related to zones of hydrothermal silicification and replacement in the Cambrian Limestones. Furthermore, this work indicated "the presence of siliceous plugs and masses in the Moorowie Area, where selective alteration of noh-dolomitic blocks in the mega-breccia units within the limestone along joints etc., is accompanied by disseminations of chalcopyrite", which are now mainly oxidized to carbonate-minerals.

For these reasons, further work in the area seemed desirable, with the object to investigate the possibility of large-tonnage, low-grade, disseminated-type, copper mineralization being associated with such stratigraphic units as the above-mentioned mega-breccia horizons. The possibility that such 'stratiform' mineralization could extend down-dip, away from the main fault, which appears to be the centre of hydrothermal activity, also was thought worthy of consideration.

Earlier sampling by Electrolytic Zinc Co. of A'sia

Ltd., (Plan Bl15-13) had indicated high copper and zinc

grades in rock-chip samples of the Cambrian Limestones,

both to the east and west of the Moorowie Fault. Reports

of E.Z. operations indicated that some re-sampling of

these highly anomalous zones had considerably down-graded

the earlier results, to the effect that Electrolytic Zinc

Co. relinquished the area. Results of this re-sampling

programme (Plan Bl15-34) were not available until July, 1971

. /4

III PRESENT PROGRAMME

A geological reconnaissance of the Moorowic Mine - Chambers Gorge area was carried-out during June, 1971, to assess the possibility of the association of low-grade copper mineralization with a particular widespread stratigraphic horizon (such as the mega-breccia unit mentioned above).

During this programme, several of the 'high grade' zones indicated by the E.Z. — sampling, were resampled by North Flinders Mines Ltd. Results are given in the following table, together with the earlier E.Z. results:—

COORDINATE		North Flind Sample No.		linders (ppm)AAS-McF Zn.	har	Electrolytic Zinc Co Initial Rock—chip Results			
			cu.	211.		Cu%	Zn %		
Line 1000N ; 99	9E-1000E	Ml	60	40		8.0%	1.55%		
Line 1000N ; 10		M2	1400	60		4.4%	0.14%		
Line 1001N ; 10		мз	20	65		13.8%	350 p.p.m.		
Line 1001N ; 10		M4	13 0	160		11.0%	0.18%		
Line 1001N ; 10	4	M5 '	1900	600		1.2%	0.6%		
•	00E-1000E	M6	60	240		12.0%	0.26%		
Line 1006N ; 10		M7	950	260	, 1	4.0%	0.27%		
Line 1007N; 10		M8	45	6 5	₹.	4.2%	7.2%		
Line 1007N; 99		M9	430	2000		3.6%	3.4%		

Sample M 10 was taken in the vicinity of peg 1004N; 1000E over an area of approximately 100 feet by 25 feet of copper—carbonate staining in silicified limestone. This sample assayed 0.13% copper and was considered to be representative of several such areas of copper—staining, associated with irregular silicified 'patches' within the Wilkawillina Limestone.

The later E-Z programme of detailed rock-chip sampling (See Plan B115-34), also confirmed generally low-copper and zinc values away from the main Moorowie Fault and suggest spurious results from their earlier sampling-programme.

Geological reconnaissance of the general area to the north of the Electrolytic Zinc Co., survey—grid, confirmed the continuance in this direction of low—grade copper mineralization associated with hydrothermally—altered, silicified zones within the lower Cambrian limestones. However, these zones are sporadic and of limited dimensions and would not be expected (visually) to assay any higher than the area of detailed—sampling outlined above.

The probability of a mineralized stratigraphic unit (mega-breccia horizon) of large tonnage-potential as originally hopefully anticipated, seemed remote from this geological inspection.

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IV CONCLUSIONS

The presence was confirmed of low-grade copper mineralization, related to zones of hydrothermal silicification and replacement in the Cambrian limestones of the Moorowie Mine area. However, both dimensions and grades of these silicified zones appear too low to be of economic interest. The existence of a 'mineralized' stratigraphic unit (mega-breccia) is suggested in places, but again mineralization is patchy (altered zones) and of low grade.

Although small rich pods of carbonate—ores are likely to be present along the Moorowie and other small faults in the area, these do not offer sufficient tonnage—potential to be of interest to the Company.

It is recommended that S.M.L. 548 is relinquished in favour of more prospective targets in the northern leases held by North Flinders Mines Limited.

R.B. WILSON.

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Chief Geologist

996E 996E 45 - 15 - 50 - 50 - 45 - 40 -110 -130-60 - 40 -170 1-110 997E 997E -- 65 - 20 - 380 **~ 9**0 -0.2% - 70 - 95 - 55 -150 - 30 320 998E 998E -0 32% - **8**5 **36**0 - 320 -100 - 70 1-190 - 480 -110 - 200 -013% - 30 999E 999E -06% -180 -800 430 { -36% - 250 -170 - 370 -0 45% -80% 60 1-120% -091% Base Line 1000E 1000E **①**1300 -140 240 -0 55% -170 -028% - 260 -360 950√ -4·0% - 220 - 510 - 290 - 250 -051200 -15% IOOIE LOOLE -140 - 25 -0.74% -140 -100 - 220 -0.85% -04% -150 1400 -4.4% 130 10028 1002E - 70 -10 - 55 -150 - 95 - 60 - 900 - 300 -130 -110 - 50 -016% -110 -0 34% 100 3E 1003E - 35 **– 25** - 160 60 - 80 - 40 454 - 4.2% - 90 -100 -120 20 -13.8% 1004E 1004E 1005E 1005E

60: CHECK SAMPLES BY NORTH FLINDERS MINES VALUE P.P.M. Cu.

ELECTROLYTIC ZING CO. OF A'ASIA LTD.

RECEIVED MOCO

MT. CHAMBERS

SOUTH AUSTRALIA

MOOROWIE COPPER MINE GRID FROCK CHIP GEOCHEMISTRY COPPER VALUES (P.P.M)

1657-1

SCALE: Lin to 100 ft Survey: D. Muller
Reference
Date January 1970 Drawn M.D.C Checked:

REF. NO. B 115 · 13

996E 996E 997E 998E 998E - 20 -110 -0.30% 999E 410 < -1 55 % 240 - 320 - 65 2000 **(** - 3.4% 1000E Base Line **0** 9**5**0 - 370 -120 260 -014%160 1005E 1002E - 320 1003E 1004E 1005E 60: CHECK SAMPLES TAKEN BY NORTH FLINDERS MINES

VALUE P.P.M. Zn.

ELECTROLYTIC ZINC CO OF A'ASIA LTD.

PROJECT: 2 0 AUG 1971 DEPT. OF MINES
SECURITY
1657

MT. CHAMBERS

SOUTH AUSTRALIA

MOOROWIE COPPER MINE GRID ROCK CHIP GEOCHEMISTRY ZINC VALUES (P.P.M)

SCALE: lin to 100ft Survey D Muller

REF. NO B,115 · 15

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ELECTROLYTIC ZINC CO. OF A'ASIA LTD.

PROJECT:

ON THE PROJECT:

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ON

MT. CHAMBERS

SOUTH AUSTRALIA

MOOROWIE COPPER MINE GRID

COPPER, LEAD, ZINC

DETAIL ROCK CHIP

Checked

1657-3

SCALE: 1 in to 100 ft | Survey: D. Muller Reference:

Date: August 1970 Drawn: F.L S.

REF. NO. B 115:34

