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THE ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA, LIMITED.  
West Coast Department.

GEOLOGICAL DEPARTMENT.

SECOND

Report.

on

PINNACLES

SILVER - LEAD - ZINC

NORTH PIEMAN

V.M. COTTLE

FEBRUARY, 1949.

Number: 11

Pages: P. 5

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TCR 02-4791

ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED  
West Coast Department.

MEMORANDUM FOR:

The Superintendent,  
E. Z. Co. Ltd.,  
ROSEBERRY.

"PINNACLES" LEAD-ZINC

Attached please find second Report on the  
above.

Copies have been made for:-

The Managing Director  
File Copies (2)

GN'

Rosebery, 25.2.'49

SECOND REPORT ON PINNACLES LEAD ZINC DEPOSIT.

(Special reference to South Workings).

S O U T H   W O R K I N G S :

Six drill holes totalling 1,902 ft. have partially tested the main lode channel of the South Workings to a depth of 450 ft., and costeaning has intersected the lode on the surface at several points over a length of 500 ft. The attached longitudinal section shows the position where the various drill holes have intersected the lode channel.

Individual results are:-

<u>Drill Hole</u>	<u>Thickness of Lode</u>	<u>Pb. %</u>	<u>Zn. %</u>	<u>Cu. %</u>	<u>Ag. ozs.</u>	<u>Au. dwts.</u>
P.P. 34	27 ft.	<0.1	3.6	0.3	0.1	<0.1
P.P. 36	22 ft.	0.3	3.2	0.28	0.1	<0.1
P.P. 39	5 ft.	N <sub>6</sub>	2.4	0.2	0.6	2.9
P.P. 40	22 ft.	3.7	8.0	0.67	1.1	5.8
P.P. 41	15 $\frac{1}{8}$ ft.	1.2	3.6	0.31	0.6	N <sub>6</sub>
P.P. 42	3 $\frac{3}{4}$ ft.	0.4	0.7	0.07	0.1	<0.1 (this is the best of a mineralised zone 38 ft. wide)

The best mineralisation encountered was that exposed in the old opencut and intersected by drillhole P.P. 40 immediately below it. Values diminish to the North, to the South and in depth below this point. The drilling to 450' depth indicates 70,000 tons of 3.5% Zn.; the average thickness being 20ft. It should be noted that the deepest hole P.P. 42 disclosed much lower than average values. The bedding cleavage relationship suggests that the lode pitches to the north, and it is possible that P.P. 42 may have missed the better mineralisation.

The whole of the lode occurs in massive pyroclastic rock and although it has been sheared and silicified, we have come to regard this rock as an unfavourable host for ore. The sparse occurrence of gangue carbonate is also an unfavourable feature.

Because of the low grade of the ore, the narrowing of width at either end, and the indications that where the lead-zinc mineralisation occurs it is associated with small lenses of tuffaceous sediments that are not persistent, it is considered that further work on this zone is unwarranted.

SOUTHERLY EXTENSION:

Effort is now being directed towards locating sheared structures in the sedimentary rocks which lie 300 ft. to the

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West of the South Workings, and extend North and South on a strike of about  $340^{\circ}$ . This formation which consists of interbedded slates and tuffaceous sandstones is considered a more favourable type of rock than the overlying massive pyroclastic formation, but to date no shearing comparable with the Pinnacles shear zone has been found in them. It was anticipated that the Pinnacles shear zone would pass into these sediments 1000 ft. to 2000 ft. South of the Pinnacles Workings, but a change in strike carried this point further south and work is being conducted in this area.

NORTHERLY EXTENSION:

Immediately North of the Pinnacles Workings, the contact between the two formations is obscured by glacial deposits, and efforts are being directed towards the location of a mineralised zone said to exist on Lynch Creek and towards exposing rock formations in the Silver Falls area.

At the Pinnacles North Workings, the lode channel does not persist for any distance and is too narrow to warrant further work. Results from the drill hole are shown on the longitudinal section.

The Central Workings are being drilled at the present time and will be reported later.

The first drillhole P.P. 46 was drilled at  $-49^{\circ}$  on a bearing  $270^{\circ}$  grid from 11,928' N. 2129' E. and intersected a band of tuffaceous sediments interbedded with the massive pyroclastic. A zone of mineralisation 9 ft. wide was encountered in this sedimentary band and this averaged -

Pb. 3.2%; Zn. 10.5%; Cu. 1.16%; Ag. 1.3 ozs.; Au. Nil

Further drilling is being carried out to intersect this zone at other points along its strike.



Rosebery, 22.12.'48.