

ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED  
WEST COAST DEPARTMENT

**FIRST REPORT ON BIG BEN PROSPECT**

**LEAD, ZINC, SILVER**

**ZEEHAN ML 28M / 10884M**

By

G Hall & G F Whitten  
April 1950

02\_4671

**396002**  
AMG REFERENCE POINTS ADDED

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396003

ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED.  
West Coast Department

ROSEBERY,  
20th April, 1950.

MEMORANDUM:

Superintendent,

B I G B E N P R O S P E C T

Attached please find report on the Big Ben Prospect.  
Copies of the Report have been made for the Managing  
Director and file.

This preliminary examination has indicated that  
testing by the Company would be warranted and arrange-  
ments have been made for the property to be optioned.  
The option was signed on the 3rd April, 1950.

It is proposed to test the lode by diamond drilling  
and the laying out of drill holes is in hand.

ASST. SUPERINTENDENT.

GH:CO

396004

ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED  
West Coast Department

B I G   B E N   P R O S P E C T.

Lead, zinc and silver

ZEEHAN, Tas.

G E N E R A L:

The property was visited with a view to taking an option, by G.H. and G.W. on the 20.3.'50, in company with Mr. J.A. Duff, of Rosebery, the owner of the Big Ben Leases. They comprise eighty (80) acres; Plate A. 1 shows their location about three miles North West of Zeehan and just to the West of the Corinna Road. Plate A. 2 shows their situation West of the ground held by the Montana Silver Lead (N.L.) Company. This latter Company's ground was formerly known as the Western Extended or Western Consolidated and should not be confused with the original Montana Mine or Zeehan Montana Mine. In addition to the mining tenements marked on Plate A. 2, it is believed that the Montana interests hold a prospecting area, of surrounding country.

A creek flows through the Big Ben leases. Country is open and undulating, button grass being the chief vegetation.

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Locality Map

5 cm

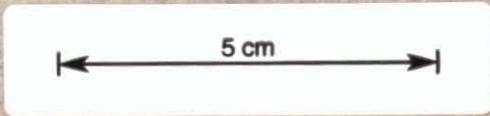
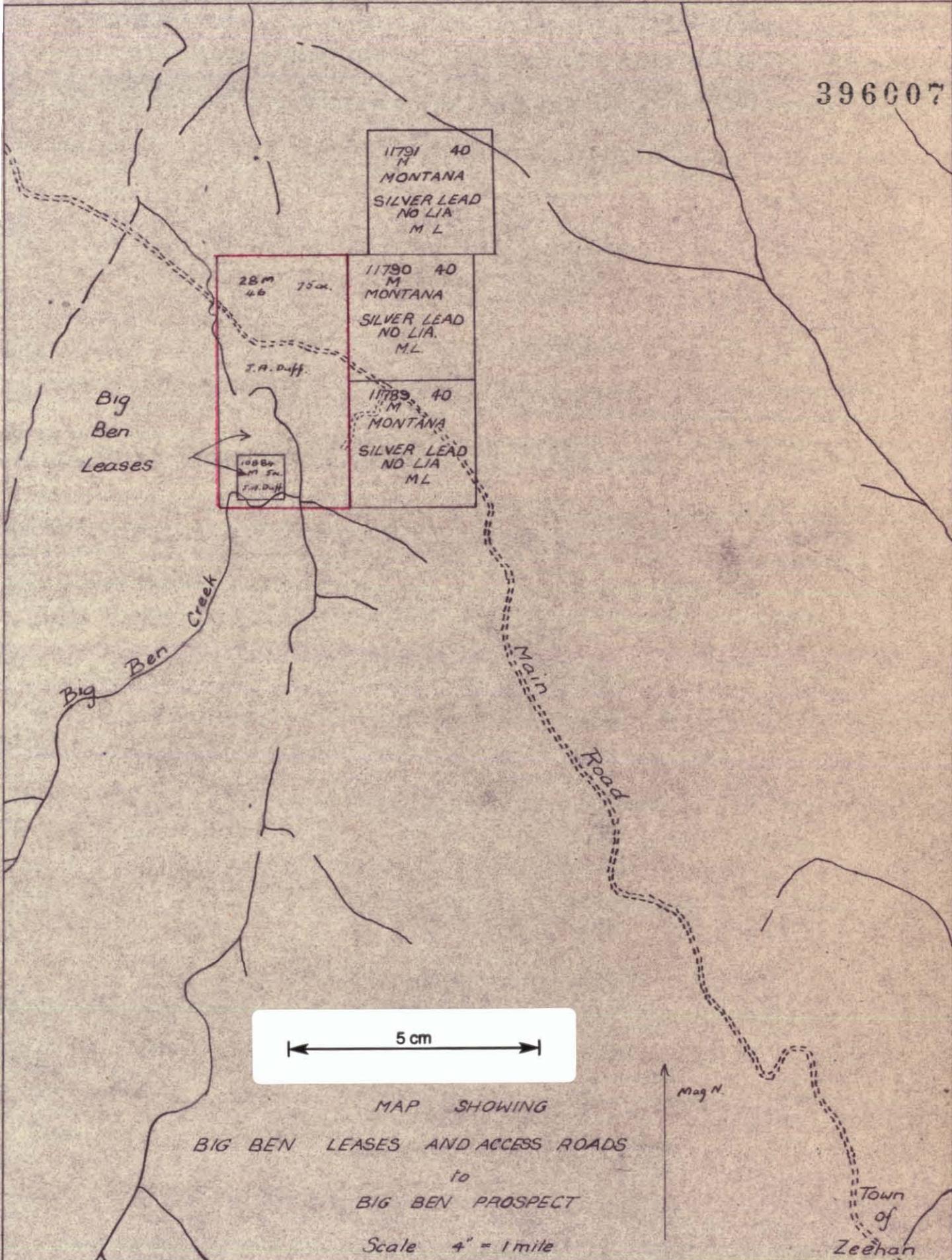
Scale 4 miles = 1"

True North



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396007



MAP SHOWING  
 BIG BEN LEASES AND ACCESS ROADS  
 to  
 BIG BEN PROSPECT

Scale 4" = 1 mile



Town of Zeehan

WORKINGS:

Plate A. 3 is a sketch map outlining the Big Ben Workings.

The lode outcropped only at the Inclined (No. 1) Shaft. The underground workings at 40 ft. vertical depth (50 ft. inclined distance) are said to consist of a 230 ft. North Drive put in from the shaft in ore along the course of the vein and an 18 ft. South Drive which is said to have revealed no ore. A 25 ft. winze is said to have been sunk from the 40 ft. level at a point 12 ft. North of the inclined shaft and some ore was removed. Ore above the level is said to have been stoped out for at least 50 ft. North from the shaft and a rise from the stopes connected to the end of Hanlon's Adit. Further North on this level, stoping has been carried out but its extent is not known. Hanlon's Adit requires cleaning out before it can be examined.

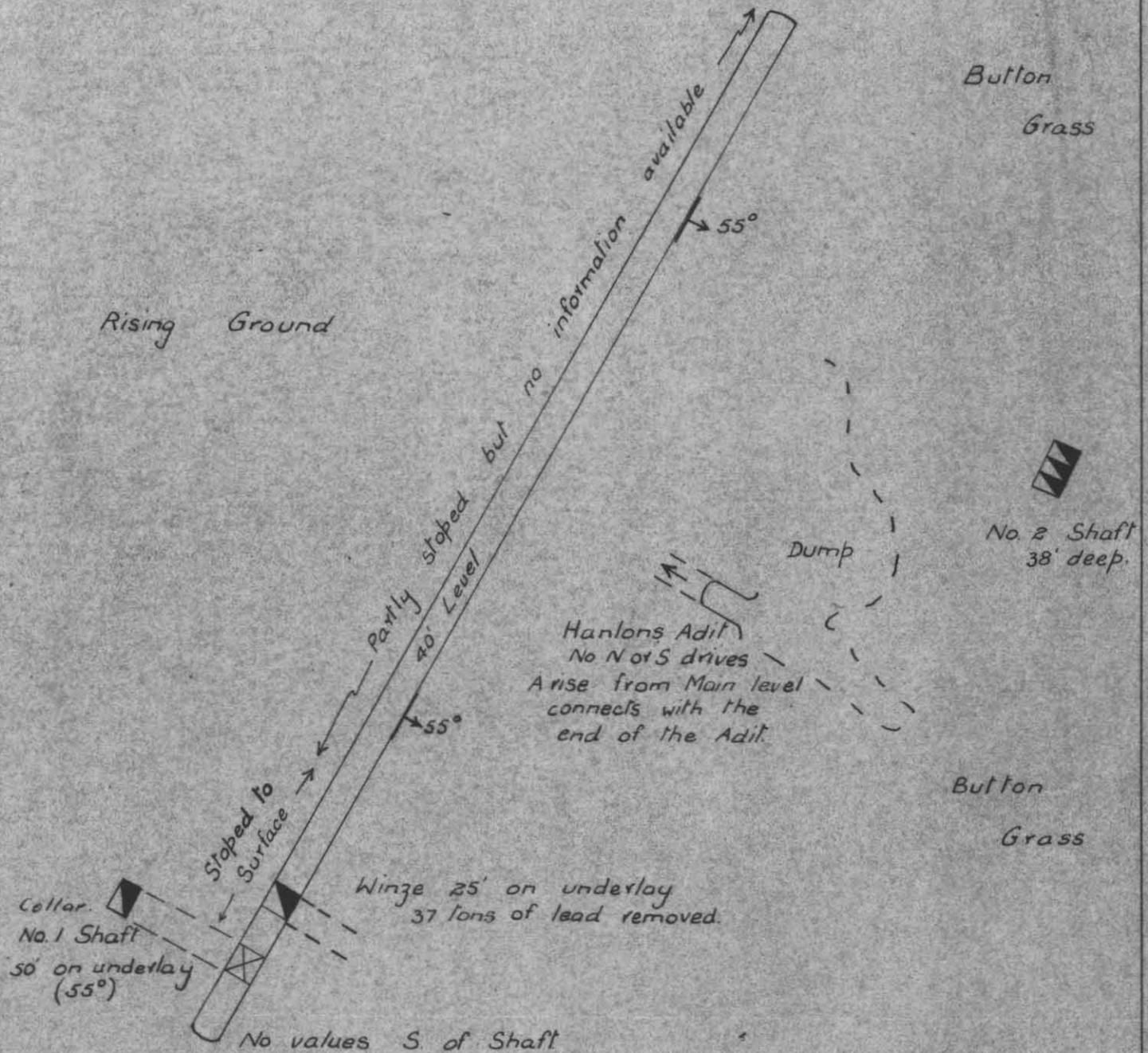
No. 1 shaft has now collapsed and contains water to within 8 ft. of the surface. No. 2 shaft was commenced on the Eastern side of the lode and was sunk vertically for 38 ft. but has not reached the lode. It is also full of water.

EXTRACTION:

Estimated extraction of 25,000 oz. silver and 175 tons of metallic lead from an unknown tonnage of ore was won from the mine between 1923 and 1935, with a break from 1930 to 1934. There remains at grass 300 to 400 tons of discarded low grade lead zinc ore and gangue rock.

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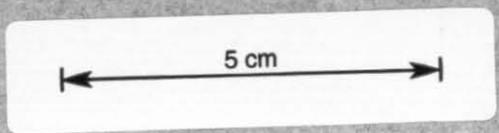


SKETCH PLAN  
of

BIG BEN WORKINGS

Ag-Pb-Zn Zeehan

Scale approx 1" = 40' 30.3.50.



Mag. N.

G E O L O G Y:

Plate A. 4, a rough sketch showing geological structure, is based on the brief examination together with a study of aerial photographs. A series of interbedded slates and calcareous sandstone has been folded and faulted. In the lower lying areas, a compacted tillite is found but its relationship to the other sediments is not clear. It may be interbedded. The lode is thought to occupy a North - South trending fissure which dips easterly at approximately  $55^{\circ}$ . and is said to have reached a 6 ft. width but pinches in places. Inspection of dump material suggests that the vein has been mineralized where the fissure traverses calcareous sandstone. The ore minerals are medium to coarse grained galena and sphalerite, the chief gangue mineral being siderite. No estimate could be made of the average grade of ore. The chances for further ore would depend on the continuity of the fissure and of the existence of parallel and adjacent fissures. It is considered that the number of faults in the vicinity make the area highly favourable for fissure type deposits.

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TESTING:

It is believed that the most effective method for preliminary testing is to diamond drill from the surface. Holes would be collared near No. 2 shaft, drilled in a westerly direction and depressed from the horizontal. Mapping of the outcrops and adjacent rock exposures is desirable before locating the holes.

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Rosebery, 17.4.'50.