

Electrolytic Zinc Company of Australasia Limited

West Coast Department

Preliminary Examination

on

W. T. Russell's Prospect

Silver – Copper

Dial Range

October, 1949

02_4699

424 1

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ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED
West Coast Department

ROSEBERY,
17th October, 1949.

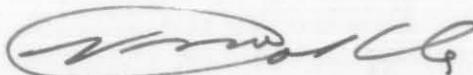
MEMORANDUM for:

The Superintendent,
ROSEBERY.

THE DIAL RANGE SILVER COPPER PROSPECT.

Attached please find the first report on this prospect. Copies have been made for -

The Managing Director
Asst. Superintendent
W.T. Russell
File (2)



SENIOR GEOLOGIST

VMC:CO

ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED.
West Coast Department

THE DIAL RANGE • Silver-Copper Prospect

REPORT ON PRELIMINARY EXAMINATION.

This prospect was brought to the notice of the Company by Mr. W.T. Russell of West Ridgely and four days were spent making an examination as a result of his invitation.

T I T L E

An area of 1,186 acres on the north-eastern slopes of Mt. Duncan covers the prospect and surroundings, and was applied for as a Special Prospecting Licence in the name of W.T. Russell, on 6th September, 1949.

A C C E S S

The property lies west south-west of Ulverstone about 9½ miles by road from the Post Office. The road is in good order consisting of 2.1 miles of bitumen, 5.7 miles of metal road and 1.7 miles of good bush track. The Leven River is crossed by a substantial wooden bridge and an ordinary motor vehicle can be driven to within 200 yds. of the workings.

The Hydro Electric Commission's power lines to Burnie pass about 3 miles to the north of the prospect.

Water is plentiful, a small creek with a good flow of water passes within 100 yards of the workings at a level between 10 ft. and 20 ft. below the level of the adits, and the Leven River is about a quarter of a mile distant.

H I S T O R Y

The only reports of activity on this prospect which have been traced are those made by the Government Geologist, W.H. Twelves, who referred to the "mine" under the names of Hardstaff and Rogers in 1903, and Rogers and McKenna in 1905. No plans were issued with these reports but two adits and surface workings were discussed. It seems likely that the assays quoted in these reports were done on specially selected material as the results are much higher than can be obtained at present by representative sampling.

PRESENT EXAMINATION:

The present examination involved a compass survey, some geological mapping and taking seventeen samples for assay.

GEOLOGY - (See map plate 1)

The rocks in the small area examined are predominantly sedimentary and are divisible into an arenaceous series consisting of fine-grained breccias and feldspathic sandstones, and an argillaceous series mainly of slates, which are altered to shales near the surface, and narrow bands of coarse grit. An augite granite intrudes the sediments near No. 1 Adit.

Faulting is suggested by a zone of mineralised brecciation up to 50 ft. wide, which appears to parallel the foot of the slopes from Mt. Duncan, and it is thought that a fault strikes north easterly through the area.

The sedimentary rocks have a general north-south strike with shallow to moderate dips to the east but as the suggested fault is approached from the west, progressively higher dips to the east are obtained. See Plate A4 showing underground plan of Russell's Adit.

MINERALISATION:

The lode formation, upon which most of the work was done, is a quartz vein with minor quantities of pyrite, arsenopyrite, cupriferosus pyrite and carbonates (siderite and calcite) averaging about 16" wide.

It occupies a fissure striking N. 25° E. and dipping 50° N.W. in feldspathic sandstone, which has been altered to a hard fine grained white quartzite in the vicinity of No. 1 Adit, where it is intruded by granite. The outcrop is traceable on the surface for approximately 500 ft. along the strike and has been tested by a number of shallow pits up to 10 feet deep. The No. 1 Adit intersected the lode about 110 ft. from the mouth and approximately 60 ft. below the outcrop. The adit was continued for 100 ft. beyond the lode but no further mineralisation was encountered.

Nine samples were taken along the lode, seven in surface pits at an average interval of 95 ft. and two in the adit and the results are as shown in the following table:-

<u>SAMPLE No.</u>	<u>WIDTH</u>	<u>Pb.</u>	<u>Zn.</u>	<u>Cu.</u>	<u>Ag.</u>	<u>Au.</u>	<u>Remarks</u>
0262	19"	Nil	Nil	0.67	3.6	<0.1	Across the lode
0252	38"	"	"	0.10	0.7	<0.1	F/W adjacent to 0262.
0249	24"	"	"	2.05	3.7	1.4	Across the lode
0251	18"	"	"	3.27	2.2	<0.1	" " "
0258	8"	"	"	0.02	0.5	<0.1	" " "
0259	18"	"	"	0.75	2.5	<0.1	" " "
0255	6"	"	"	0.72	3.0	1.2	" " "
0263	20"	"	"	0.10	< 0.1	Nil	In the adit across across the lode.

<u>SAMPLE No.</u>	<u>WIDTH</u>	<u>Pb.</u>	<u>Zn.</u>	<u>Cu.</u>	<u>Ag.</u>	<u>Au.</u>	<u>REMARKS</u>
0257	24"	Nil	Nil	0.02	<0.1	Nil	H/W adjacent to 0263.

Weighted average of samples across the lode is:-

1.24% Cu; 2.35 ozs. Ag; <0.4 dwts. Au.

The vein shows a decrease in the average width going northerly along the strike and probably dies out before reaching Russell's Adit or else passes to the north west of it. This adit which is 1,550 ft. N. N.E. of No. 1 adit was driven northwesterly for 300 ft. but no mineralisation was encountered.

Two other mineralised formations outcropping on the property were examined with disappointing results.

The brecciated fault zone which lies about 400 ft. east of the main line of lode contains notable quantities of hematite and limonite. Much of this iron is obviously transported, but some is due to the presence of primary hematite.

Four samples taken from this outcrop returned results as follows:-

<u>SAMPLE No.</u>	<u>Pb.</u>	<u>Zn.</u>	<u>Cu.</u>	<u>Ag.</u>	<u>Au.</u>
0265	Nil	Nil	0.02	<0.1	Nil
0264	"	"	0.02	<0.1	"
0260	"	"	0.02	<0.1	"
0261	"	"	0.07	<0.1	"

The second, an outcrop lying 1,100 ft. to the southeast has been tested by three shallow shafts over a distance of 130 ft. The formation is up to 9 ft. wide and four samples returned as follows:-

<u>SAMPLE No.</u>	<u>WIDTH</u>	<u>Pb.</u>	<u>Zn.</u>	<u>Cu.</u>	<u>Ag.</u>	<u>Au.</u>
0253	54"	Nil	Nil	0.05	<0.1	Nil
0256	57"	"	"	0.02	<0.1	"
0254	58"	"	"	0.10	<0.1	"
0250	36"	"	"	0.05	0.1	<0.1

) total width
) of 9' 3"

The outcrop contains abundant limonite, much of which is transported but parts are gossanous, showing small areas of boxwork. The boxwork, however, is not suggestive of base metal sulphides.

C O N C L U S I O N

Small size and low metal content combine to render these formations valueless, and it is considered that further work on this prospect is not warranted.

I desire to acknowledge the advice of Mr. G. Hall on the nature of the gossans.



SENIOR GEOLOGIST.

Rosebery, 17.10.'49.

PLATES TO ACCOMPANY THIS REPORT ARE:-

PLATE 1.	Surface map of area	Scale 1" = 100'
"	A2. Plan No. 1 Adit	" 1" = 40'
"	A3. Cross section through No. 1 Adit	" 1" = 40'
"	A4. Plan Russell's Adit	" 1" = 40'

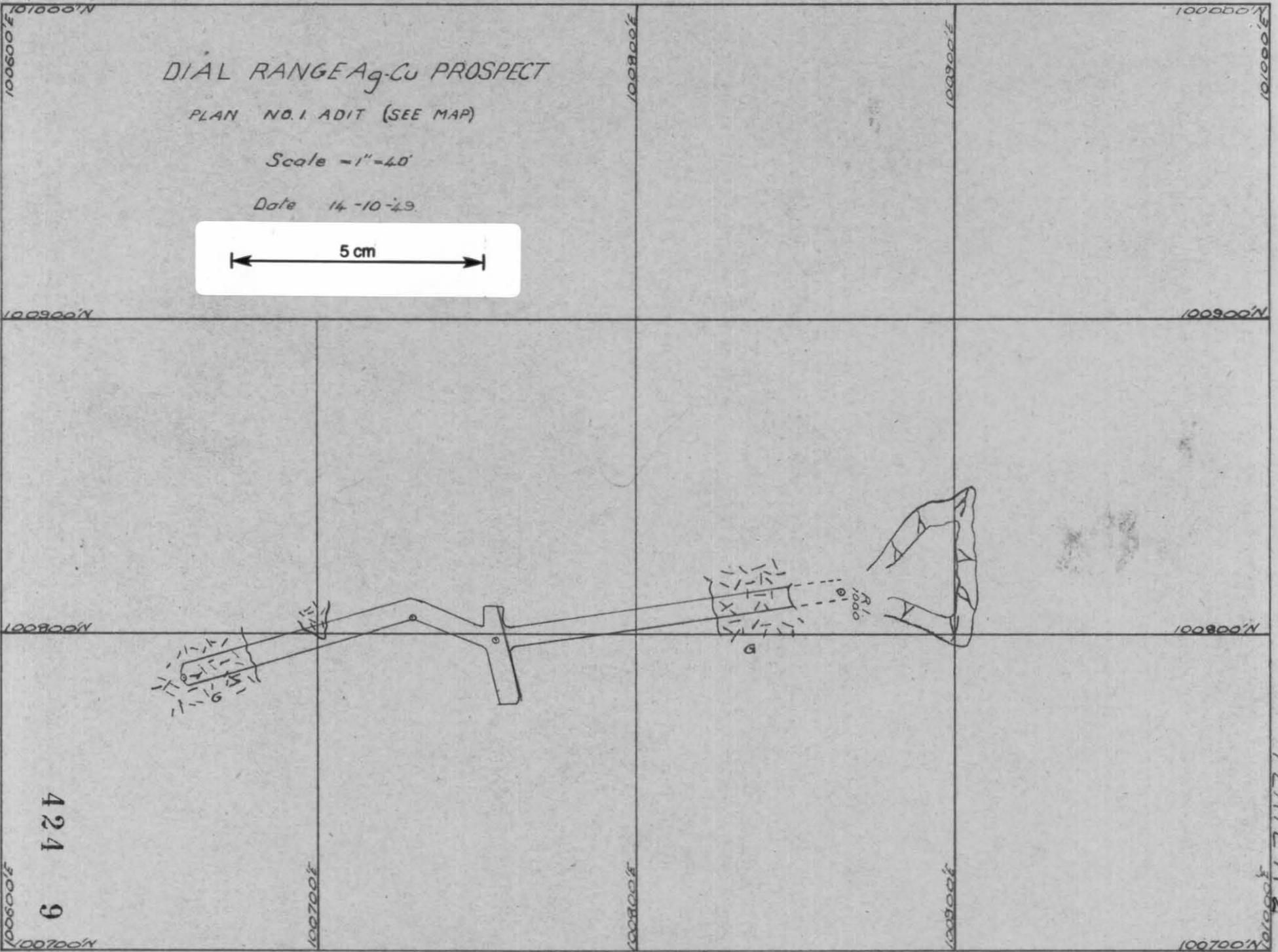
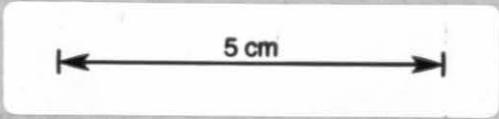
ELCO. M.C.D. Geol. Dept. Z.O.33

DIAL RANGE Ag-Cu PROSPECT

PLAN NO. 1 ADIT (SEE MAP)

Scale - 1" = 40'

Date 14-10-49.



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PLATE A 2

E.Z. Co. W.C.D. Geol. Dept. 2034.

DIAL RANGE Ag Cu PROSPECT

CROSS SECTION 10800'N

Looking North

Scale 1"=40'

Date 14-10-49

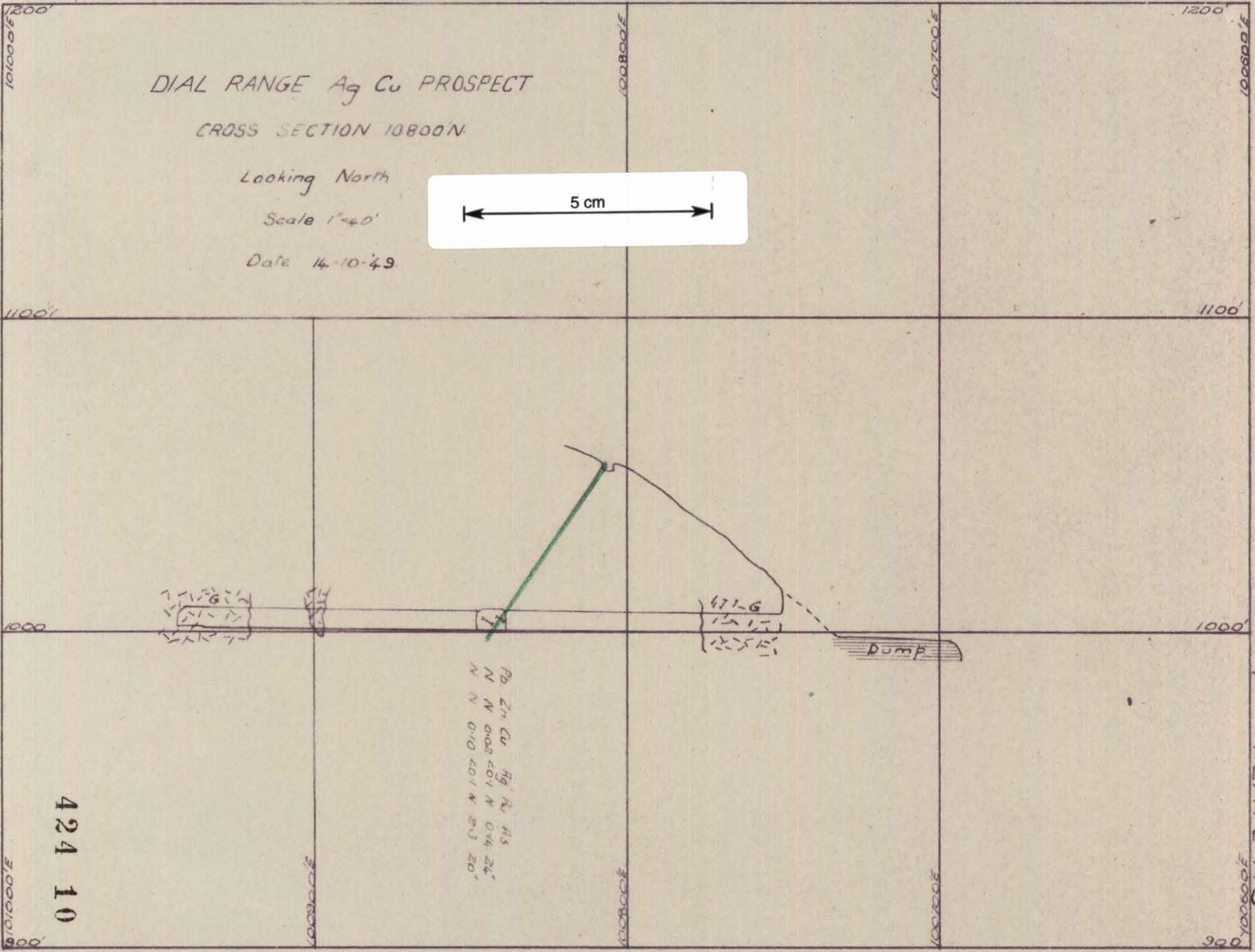
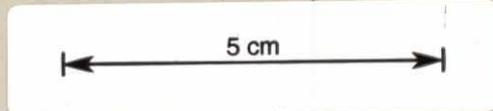
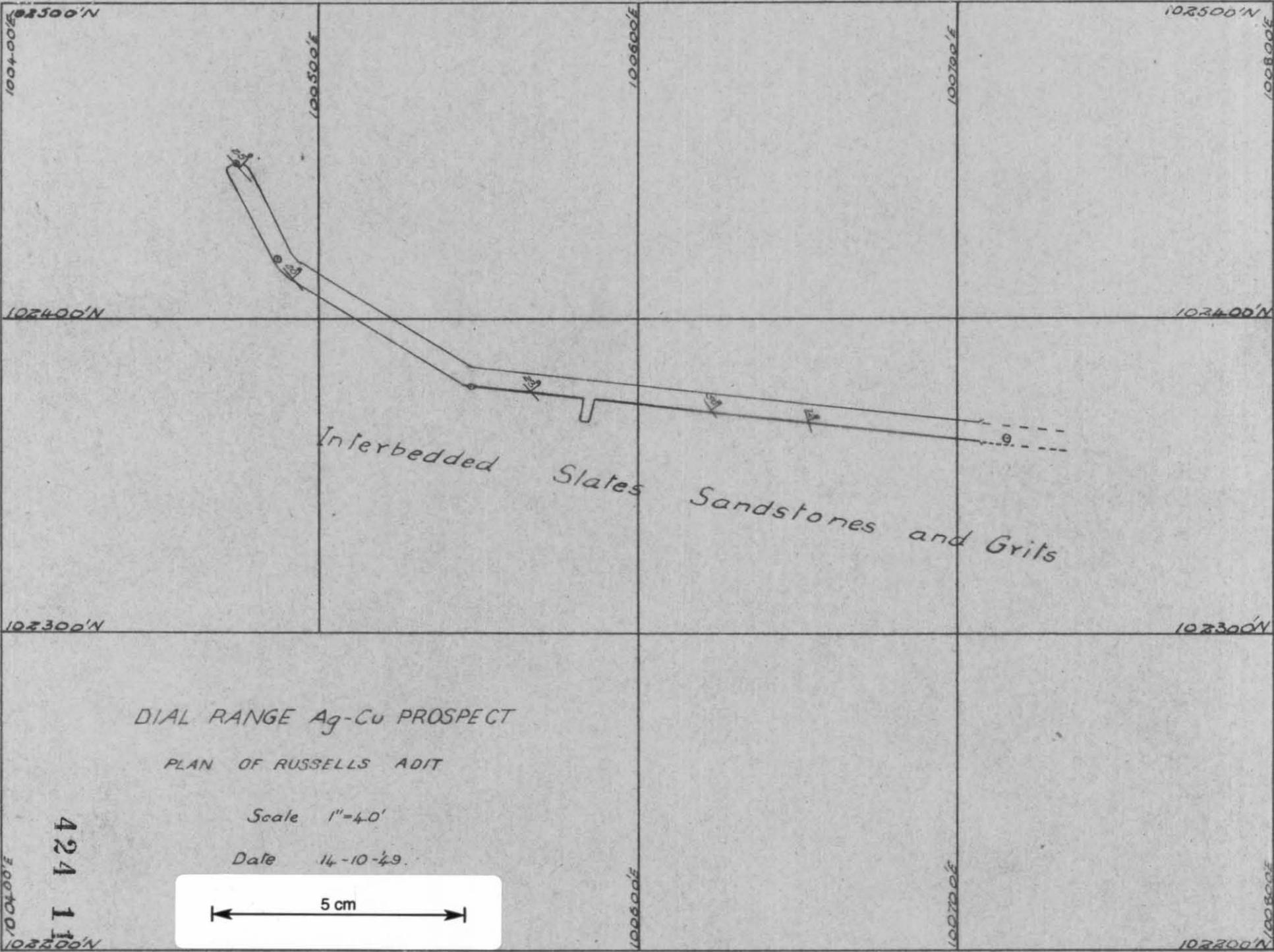


PLATE A3

E.Z. Co. W.C.D. Geol. Dept. Z.O.35



DIAL RANGE Ag-Cu PROSPECT

PLAN OF RUSSELLS ADIT

Scale 1"=40'

Date 14-10-49.

5 cm

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PLATE A 1