File 535001 Q44/10

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THE ELECTRICITY SING COMPANY OF AUSTRALASIA, LIMITED.
West Coast Department.

GEOLOGICAL DEPARTMENT.

FIRST Report.

on

DUTTON'S WORKINGS

Silver Lead

Mount Farrell

Graham F. Whitten December, 1948.

Number: 9.

File: P. Murchison 5.

48-097

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ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA, LIMITED.
West Coast Department

535002

MEMORANDUM:

Mr. Burns,
Superintendent,
ROSEBERY.

DUTTON'S WORKINGS

Silver-Lead

Mount Farrell

Attached please find First Report on above.

This examination has been made as Dutton's Workings represent the southernmost exposure of the Farrell lode before it passes under buttongrass country immediately to the South.

Copies have been made for:

The Managing Director
(File: 2)

Rosebery, 10.12.48

REPORT ON DUTTON'S WORKINGS - Tullah.

G E N E R A L

The workings outside E. Z. Company's Prospecting Area in the Tullah District comprise (from South to North)

1.	Dutton's Workings	on Dutton's Lease	comprise old Mt. Farrell leases
2.	Mt. Farrell - S. Workings		
3.	Mt. Farrell - N. Workings - N. Mt. Farrell Lease		
4.	Old North Mt. Farrell - Pre 1933	on North Mt. Farrell leases	
5.	Mackintosh		
6.	Present North Mt. Farrell - Post 1933		

Some or all of these workings will be inspected and or mapped to furnish information for Electrolytic Zinc Company's Prospecting programme in the Tullah District.

This report concerns itself with Dutton's Workings.

DUTTON'S WORKINGS

SUMMARY

Dutton's Workings have been inspected during 1947 -48 on a number of occasions during Electrolytic Zinc Company's Prospecting in the Area.

They represent the most southerly section of the Farrell line of lode yet tested in the district and although very little ore has been removed, they indicate that silver lead mineralisation on the Farrell line of lode occurs throughout a known length of approximately 7,000 ft.

Testing by diamond drilling is required both on Dutton's Lease and/or on the prospecting area and lease to the south, held by the Electrolytic Zinc Company.

PLATE A1

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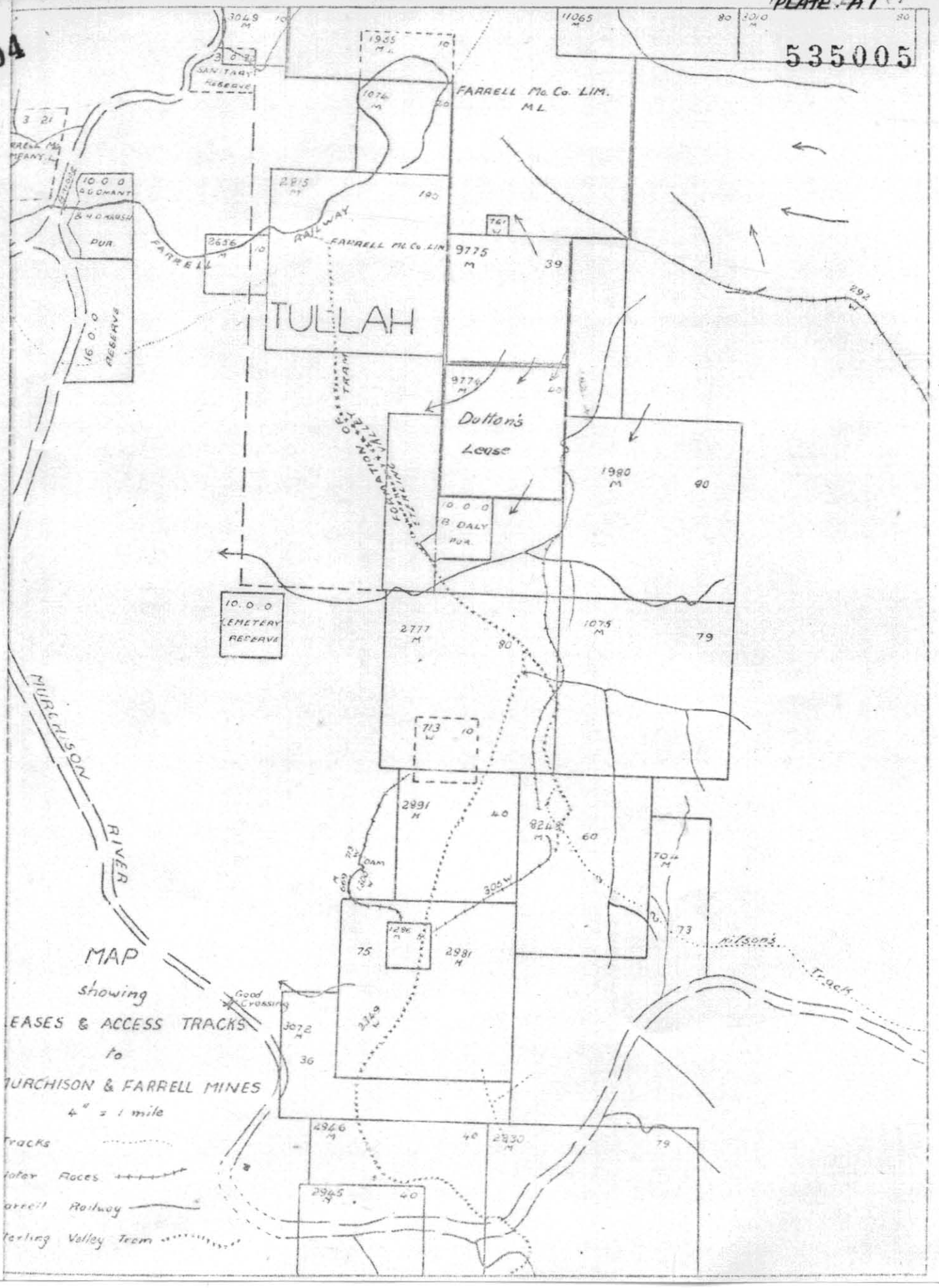

LOCATION, TITLE, etc. See Plate A.1.

Dutton's Workings are located near the South-West corner of Mineral Lease 2774, 40 acres held by J. Dutton of Tullah. They comprise two adits and a rise connecting the adits and continuing to the surface.

They occur in Blocks D. 240 to G. 242 in the "Central Mine to North Mount Farrell Mine (old)" Map (100 scale) prepared by the Electrolytic Zinc Company, and in Blocks D. 2 to G. 4, in the 40 scale map prepared by North Mount Farrell Mining Company. These maps have identical grids, the E. Z. Company origins being 24,001 ft. South and 6,000 ft. West of the North Mount Farrell origins.

Dutton's Workings were inspected on 21.9.'47, on the company of Mr. J. Dutton and G.H., on 17.9.'48 in the company of Mr. R. Midson and on 21.9.'48 and 10.11.'48, when the underground workings were mapped. Surveys are based on theodolite and compass traverses by Mr. R. Midson (Manager of North Mount Farrell Mining Company) plus additional compass traverses by the writer where necessary.

The mine is situated three quarters of a mile southerly from Tullah with which it is connected by a macadamised road suitable for motor transport. The elevation of No. 2 level is said to be approximately 100 ft. below the coarse ore bins at the North Mount Farrell Mining Company's mill.

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WORKINGS

The workings consist of -

1. No. 1 Level — See Plan, Plate A2.
2. No. 2 Level — See Plan, Plate A3.
3. Rise — See Section Plate A2.

1. No. 1 Level consists of an entrance trench and a 100 ft. drive both following the lode channel and an easterly crosscut approximately 60 ft. long prospecting the footwall. This crosscut is in slate and has not disclosed any mineralisation. A winze was put down in the drive on the richest patch of ore and several tons of galena removed by underhand stoping. Elsewhere in the drive mineralisation consisted mainly of quartz and carbonates with occasional blebs of galena on the footwall. The walls are well defined, the host rock being slatey tuff. The lode channel averages 5 to 6 feet wide.

2. No. 2 Level - An adit crosscut 170 ft. long prospects the hanging wall rocks, whilst 85 ft. of driving (chiefly to the north) has been carried out on the lode channel. Two shallow winzes have been put down on pockets of ore and a rise connected with the winze from No. 1 level. The lode channel is well defined with carbonate veinlets, the galena occuring in bunches and narrow veins. The host rock here is inclined to be more slatey than in the upper level. The hanging wall rock is more a tuffaceous sandstone.

3. The rise serves to give a cross section through the lode channel. The hanging wall everywhere is well defined and relatively constant in dip, but below No. 1 level the footwall is less well defined and varies in underlay.

The Structure revealed is:- A fissure zone striking 10 - 15 degrees east of north and dipping approximately 65° west occurs in tuffaceous slates and sandstone near its contact with massive pyroclastics (porphyroid). The rocks strike between north and 10 degrees west of north and dip west at approximately the same angle as the fissure zone. Thus should mineralisation be confined to a favourable bed (as at the Murchison Mine and elsewhere) the ore lens will pitch steeply to the south.

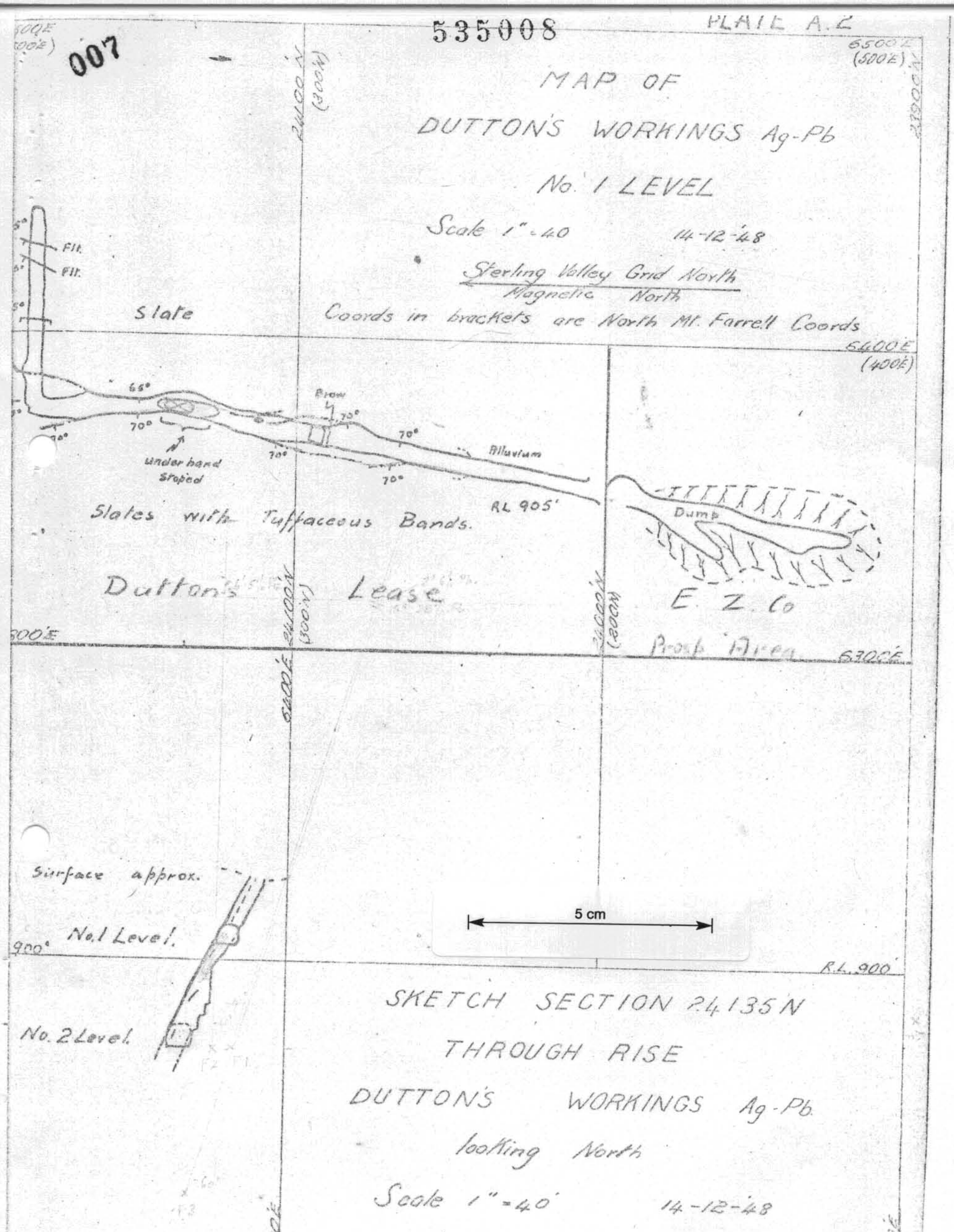
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PLATE A.2
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MAP OF
DUTTON'S WORKINGS Ag-Pb
No. 1 LEVEL
Scale 1" = 40
14-12-48
Sterling Valley Grid North
Magnetic North
Coords in brackets are North Mt. Farrell Coords
6500E
(500E)
24100N
(300N)
23900N
Slate
Flt.
Flt.
6400E
(400E)
65°
70°
70°
Brow
75°
70°
70°
70°
Alluvium
Underhand stoped
RL 905'
Dump
Slates with Tuffaceous Bands.
Dutton's Lease
E. Z. Co
6300E
24100N
(300N)
24000N
(200N)
6400E
Surface approx.
No. 1 Level.
No. 2 Level.
900'
R.L. 900'
5 cm
SKETCH SECTION 24135N
THROUGH RISE
DUTTON'S WORKINGS Ag-Pb
looking North
Scale 1" = 40'
14-12-48
6400E
6500E

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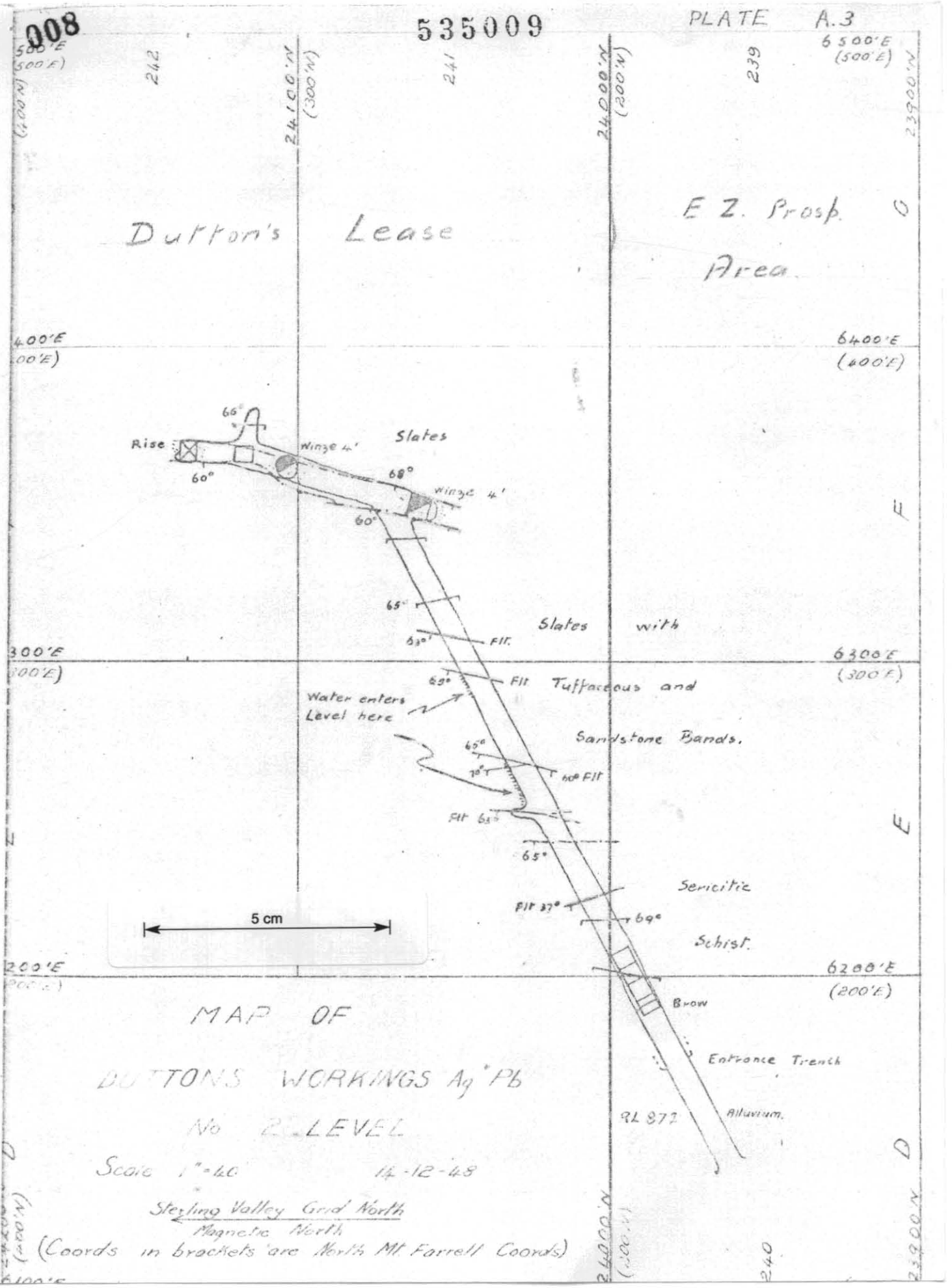
PLATE A.3



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CONCLUSION.

Dutton's Workings lie on the Farrell line of lode as stoped in the present North Mount Farrell Mine, the old North Mount Farrell Mine, the Mount Farrell - North Workings and the Mount Farrell - South Workings. As such they represent the most southerly workings on the line of lode and prove mineralisation to extend over a distance of at least 7,000 ft.

The ore macroscopically is identical with that of the other mines on the line, but the silver lead ratio is slightly poorer.

Should ore be found further north logical development would be to drive No. 2 level but in the immediate vicinity of the workings shaft sinking will be necessary, because of the low level of the No. 2 adit.

The Farrell Mining Company have drilled a number of diamond drill holes on Dutton's Lease; Electrolytic Zinc Company is drilling one to the south.

GWW.