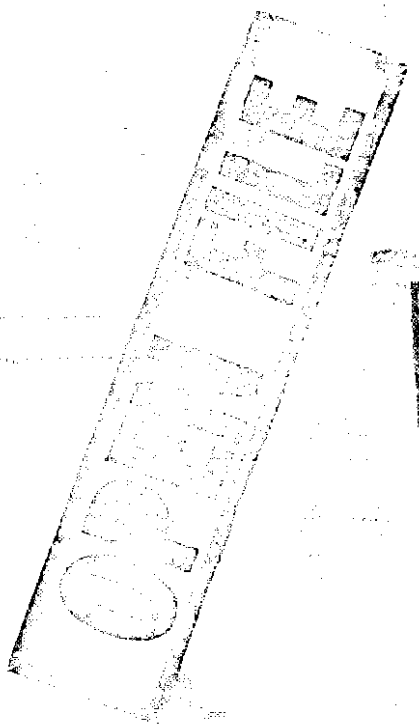
FIELD

Re: Prospectors licence: No Tenement Known

51/19



THOMAS' BLOCKS AND PENNEFATHERS PROSPECT

Lead, Zinc and Silver

STERLING MINE AREA

Graham F. Whitten April, 1950

24

P. 5

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First report of Thomas's Blocks and Pennefathers Prospect - Sterling Mine Area
Electrolytic Zinc Company of Australasia Limited*
Whitten, G.F.

165002

ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED

West Coast Department

Rosebery,
30th May, 1950.

MEMORANDUM to :

Superintendent:

THOMAS' BLOCKS AND PENNEFATHER'S PROSPECT
(Lead-Zinc Prospects)

Attached please find first report on the above prospects which lie adjacent to one another northerly from the Sterling Mine.

In each case mineralization is confined to narrow fissures in unfavourable rock types. Neither is attractive from the viewpoint of further testing, and neither offer any tonnage possibilities.

Copies have been made for Managing Director and file.

Asst. Superintendent

GH:YL

165003

ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED.
West Coast Department

THOMAS' BLOCKS AND PENNEFATHERS PROSPECTS

Lead, Zinc and Silver

STERLING MINE AREA.

G E N E R A L:

TITLE - Location - See Plate A. 1.

Thomas' Blocks and Pennefathers Prospects are covered by a Special Prospector's Licence issued to the Company - Respect of 7,300 acres (more or less) of land, County of Montagu, Vicinity of Tullah. This land has been held by the Company since 4th September, 1947.

ACCESS - See Plate A. 1.

The prospects lie approx. two miles northerly from the Sterling Mine and east of the Sterling Valley Tram. Thomas' Blocks is easily accessible from the Tram but Pennefathers lies three quarters of a mile to the east and difficulties would be experienced in getting heavy equipment up a cliff between the tram and the mine.

The Sterling Mine Camp was used as a base in prospecting the area.

S U M M A R Y:

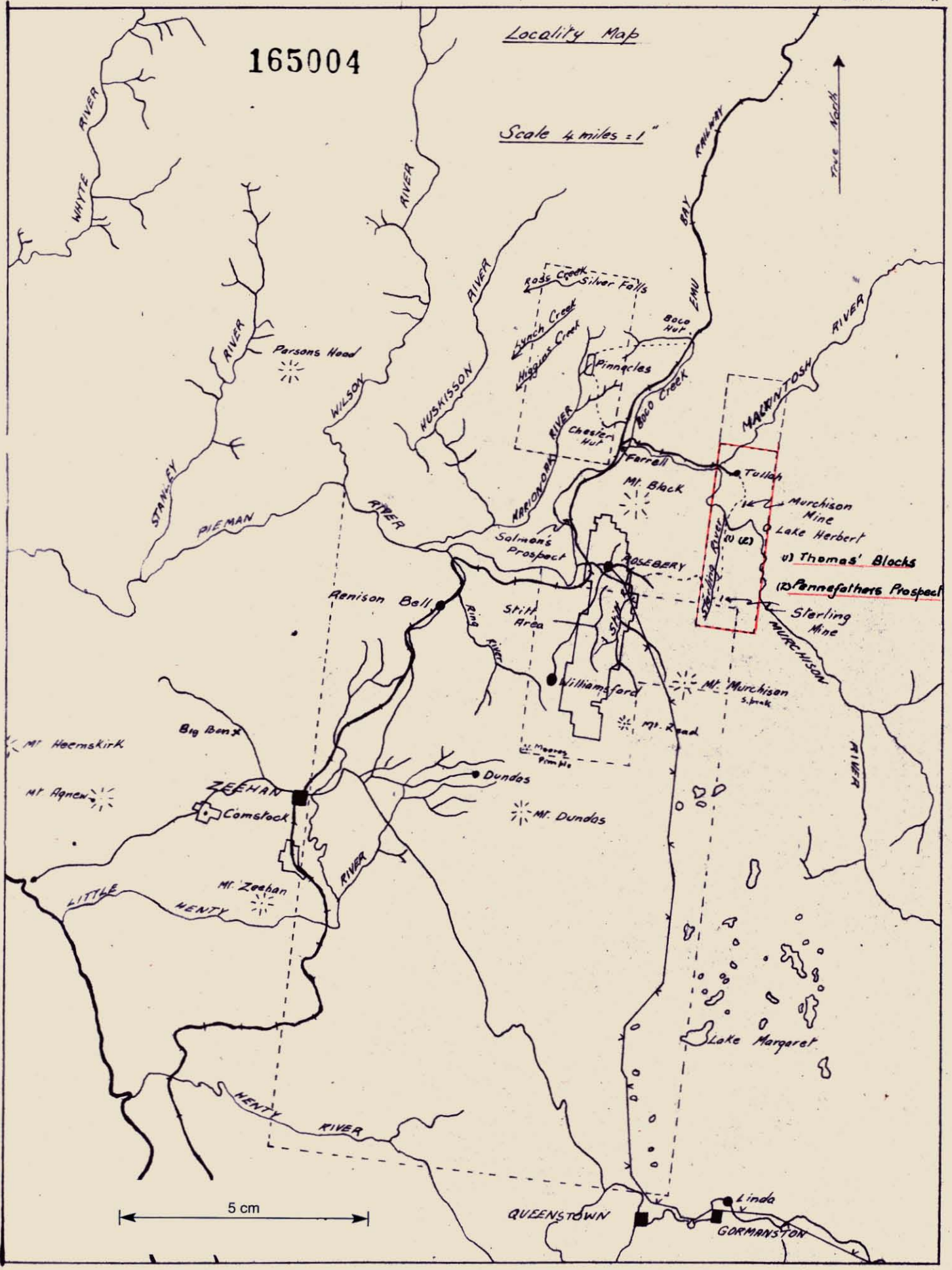
Both prospects occur on fissures striking 335 - 340° and dipping 65° W. in massive tuff or pyroclastics. Mineralisation in the sheared zones consists of short veins of galena and sphalerite which are too narrow and too discontinuous to warrant testing.

PLATE A.I.

Locality Map

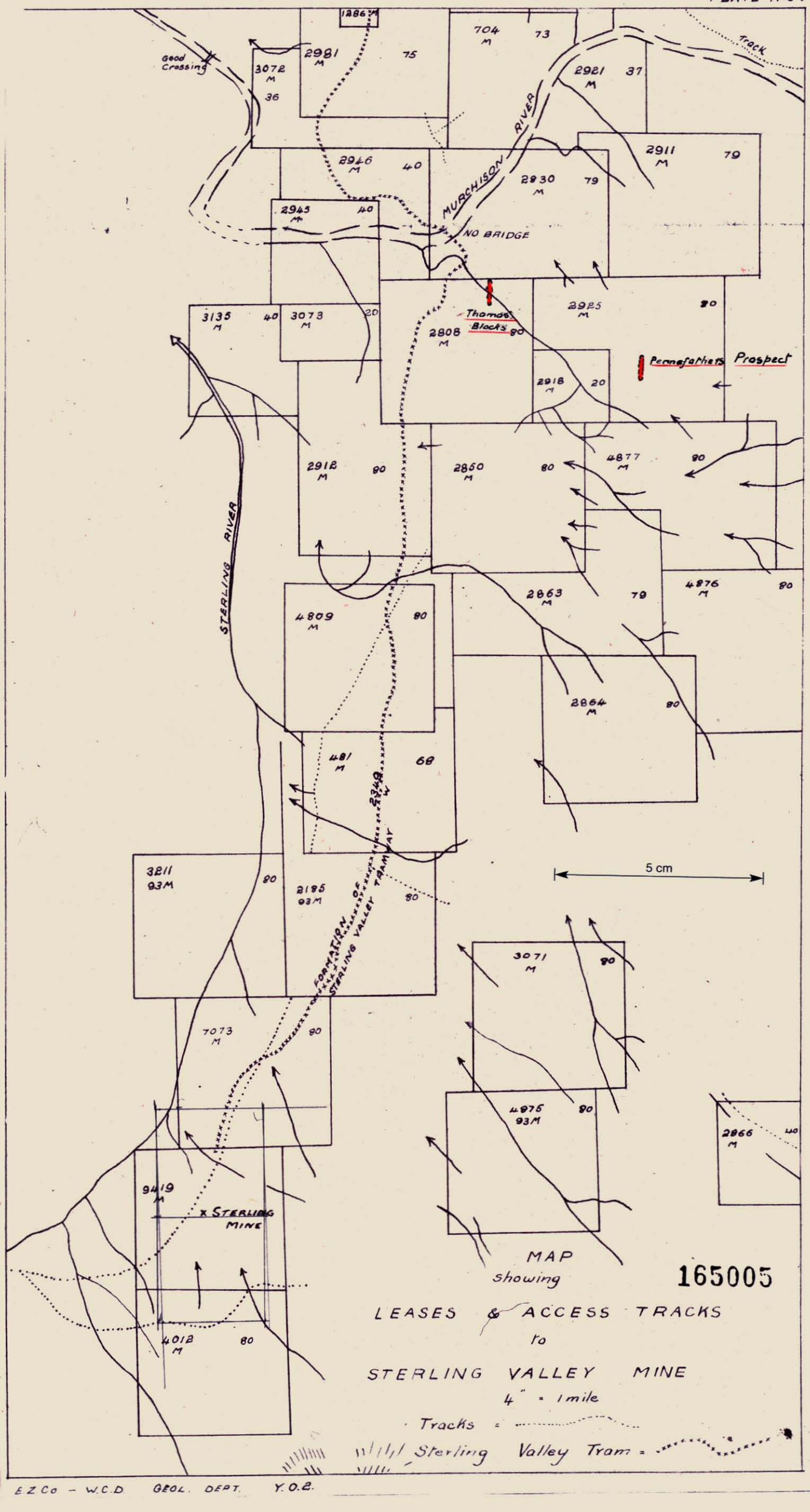
165004

Scale 4 miles = 1"



E.Z. Co. - W.C.D. - Geol. Dept. Z.O.3.

PLATE A.c 1



MAP
showing

165005

LEASES & ACCESS TRACKS
to
STERLING VALLEY MINE

4" = 1 mile

Tracks = ...

Sterling Valley Tram = ~~~~

E.Z.Co - W.C.D. GEOL. DEPT. Y.O.2.

165006

THOMAS' BLOCKS

See Plates A 1, A2 and B1

The workings of the Thomas' Blocks Silver Mining Co. N.L. on Section 2308 H. - 80 acres, consist of a shaft and an adit approx. a quarter of a mile east of the Sterling Valley Tram and upstream from the bridge over Thomas' Creek. They were located on 20.1.'49 and were mapped in October, 1949. See Plate A 1.

The rock exposed is an unsheared coarse tuff with the exception of the mouth of the adit where a 17 ft. band of slate occurs. The rocks strike N. S. and dip 65° W. and are crossed by a series of fissures which strike 335° and dip 65° W. Two of those exposed in the adit are mineralised.

The Main Drive - See Plate B. 1 - has prospected the western fissure for a length of 350 ft. It is well defined and mineralised throughout its length for widths of from 1" to 15" by galena, sphalerite, pyrite, quartz, carbonates and flourspar. The sulphides occur as short disconnected lenses. A little O/H and U/H stoping has been done on two of the lenses south of the shaft. At the north end, where a longer lens occurs, a rise has been put up 10 ft. from the floor and a winze sunk 15 ft. but no stoping has been carried on here.

The shaft which is 80 ft. deep and connects with the adit level followed this lode down from the surface. See Plate A. 2.

The Main Adit crosscut was extended after cutting the Western Fissure and 85 ft. further east crossed a fissure mineralised by quartz. Approximately 150 ft. south of the shaft an easterly crosscut again penetrated an eastern fissure, the mineralisation here consisting of 1" to 6" of galena and sphalerite. No driving has been done on this fissure.

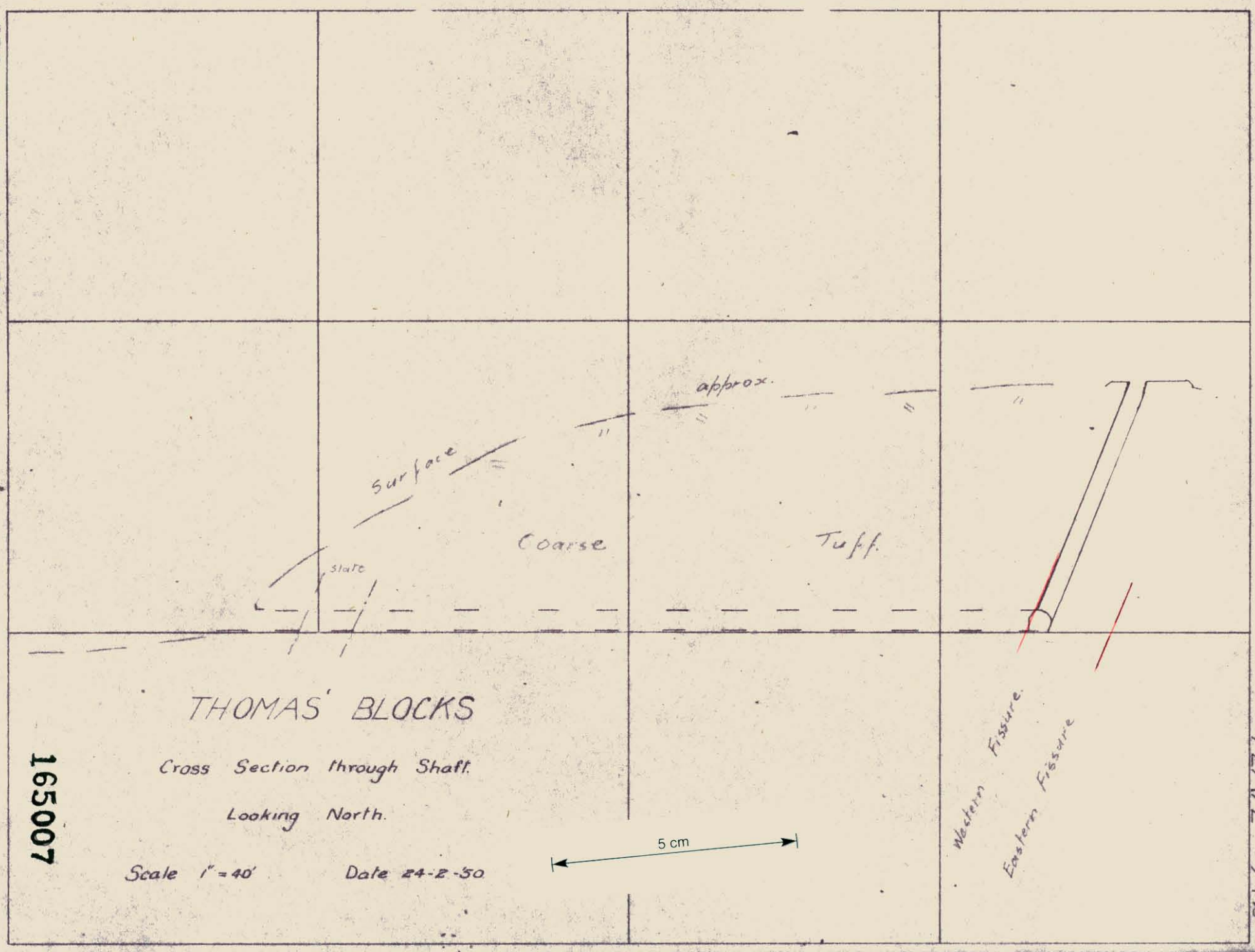
A small quartzose vein carrying lead and zinc is said to have been cut in the magazine tunnel but died out in a few feet. No trace of this was found on the Adit Level.

SUMMARY:

A series of fissures striking 335° and dipping 65° W. cross a coarse tuff rock striking N. S. and dipping 65° W. 350 ft. of driving on one fissure has disclosed short lenticular veins of lead zinc ore connected by carbonate mineralisation. A second fissure prospected by two crosscuts also shows only a narrow vein of ore.

Both fissures show mineralisation which is too narrow and too discontinuous to warrant testing, by the Company.

EZCo. W.C.D. Geol. Dept. Z.O. 45



THOMAS' BLOCKS

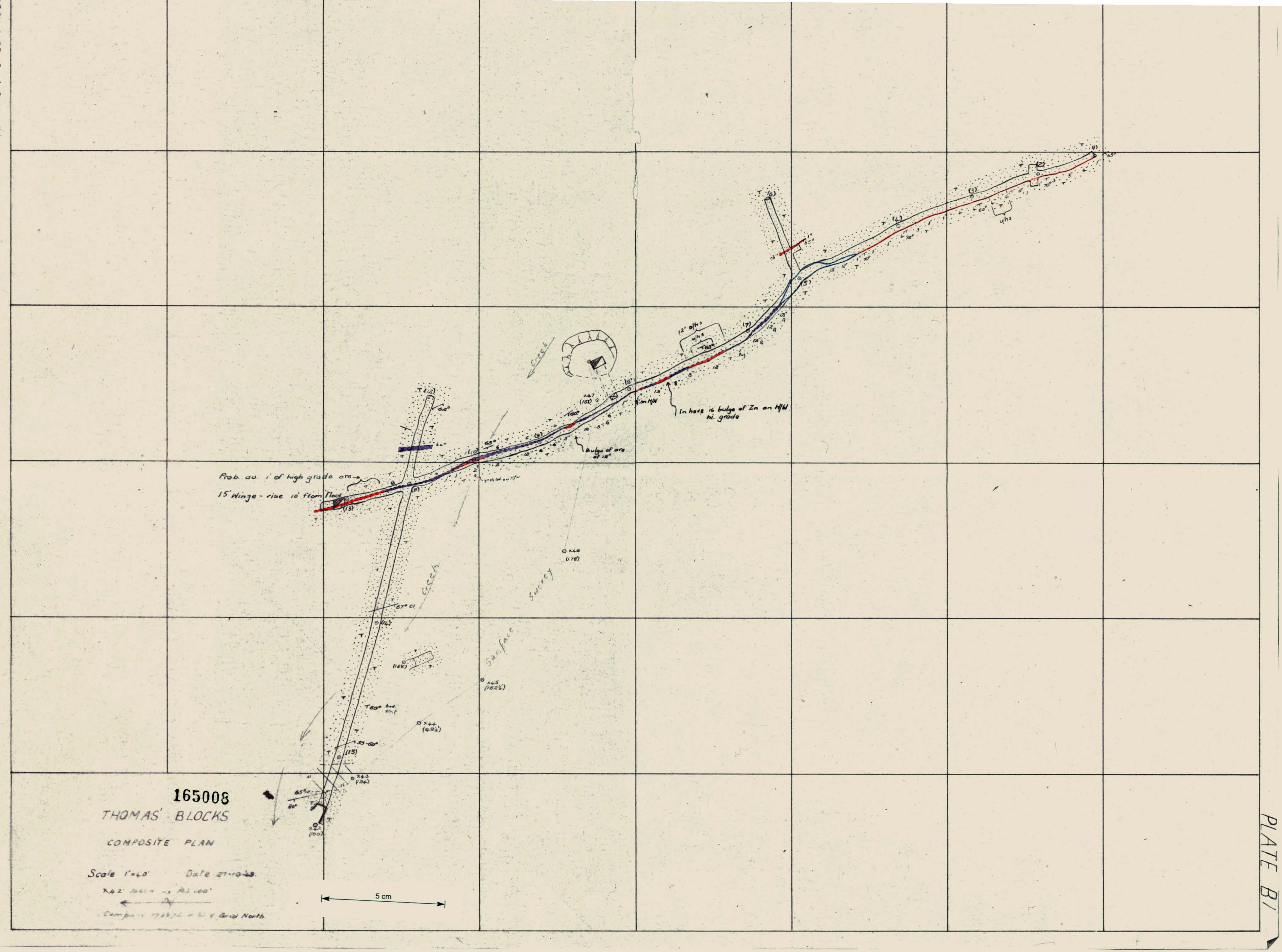
Cross Section through Shaft.

Looking North.

Scale 1" = 40' Date 24-2-50

165007

PLATE A3


Prob. av. 1' of high grade ore
15' Winze - rise 10' from Floor
In here is bulge of Zn on H/W hi. grade
Bulge of ore at 12"
3" Hi Gd. on H/W
Creek
Creek
Surface Survey
12' o/hs
u/hs
x47 (181')
x46 (178')
x45 (162½')
x44 (148½')
x43 (124')
x42 (100')
(128')
T60° bed. str.?
55-60°
67° Cl
165008
THOMAS' BLOCKS
COMPOSITE PLAN
Scale 1"=40'
Date 27-10-48.
5 cm
Compass 17°55' = W. of Grid North.
PLATE B1

165009

P E N N E F A T H E R'S P R O S P E C T

See Plates A-1, A.3, A.4 and B2

This comprises the workings of the Tullah Silver and Lead Mining Company (Section 2925 M. - 80 acres) on the slope of Little Mount Farrell approximately three quarters of a mile east of the Sterling Valley Tram and 400 to 500 ft. above it. See Plate A-1.

The workings consist of two adits and drives from them. The rock exposed is everywhere of the massive pyroclastic type except in the mineralised zone where a narrow lens of tuff has been sheared. The sheared zone strikes 340° and dips 65°W. On No. 1 Level, 210 ft. of driving has prospected this sheared zone on the footwall side and on No. 2 Level 140 ft. of driving has done likewise. A little stoping has been carried on, on No. 1 Level, in an exploratory sort of way (See L.S. Plate A. 4).

Work done by E. Z. has consisted of locating the workings, draining the adits and in geological mapping. This was carried on in October and November, 1949.

The best mineralisation occurs on No. 1 Level where the tuff band is 27 ft. wide. It consists of fine veins of galena and/or sphalerite occupying fissures or cementing the fractured country. The veinlets range up to few inches wide and individual veinlets are seldom more than 20 ft. long. No concentration occurs which could be mined commercially and the amount of mineralisation decreases to the North and South.

On No. 2 Level, the tuff band has narrowed down to 7 ft. It is still well sheared and fissured but no veinlets of ore occur and mineralisation consists only of scattered crystals of galena and sphalerite.

SUMMARY:

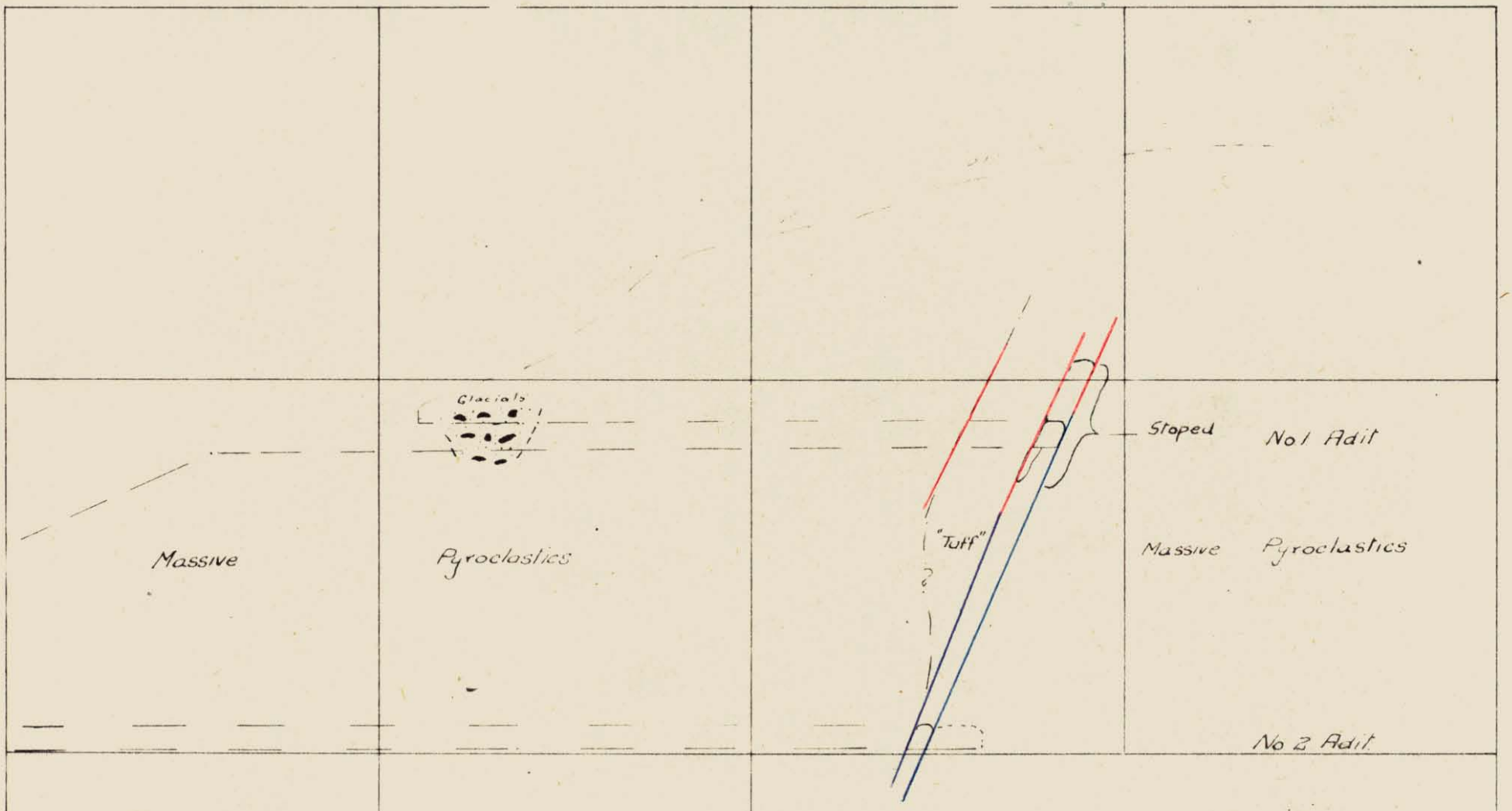
The structure revealed is - A very lenticular band of tuff occurs in Massive Pyroclastics. This band has taken the greater part of the shearing and lead zinc mineralisation has been introduced along the fissure planes. However -

1. The veinlets are narrow and short in length.
2. No concentration occurs which can be mined economically.
3. The amount of mineralisation decreases to the north and south (No. 1 Level) and in depth (No. 2 Level).
4. The favourable tuff band decreases in width in depth.

Because of these facts it is recommended that no further work be done on this prospect.

... ...

Rosebery, 3.4.'50.



PENNEFATHER'S PROSPECT

GENERALISED CROSS SECTION

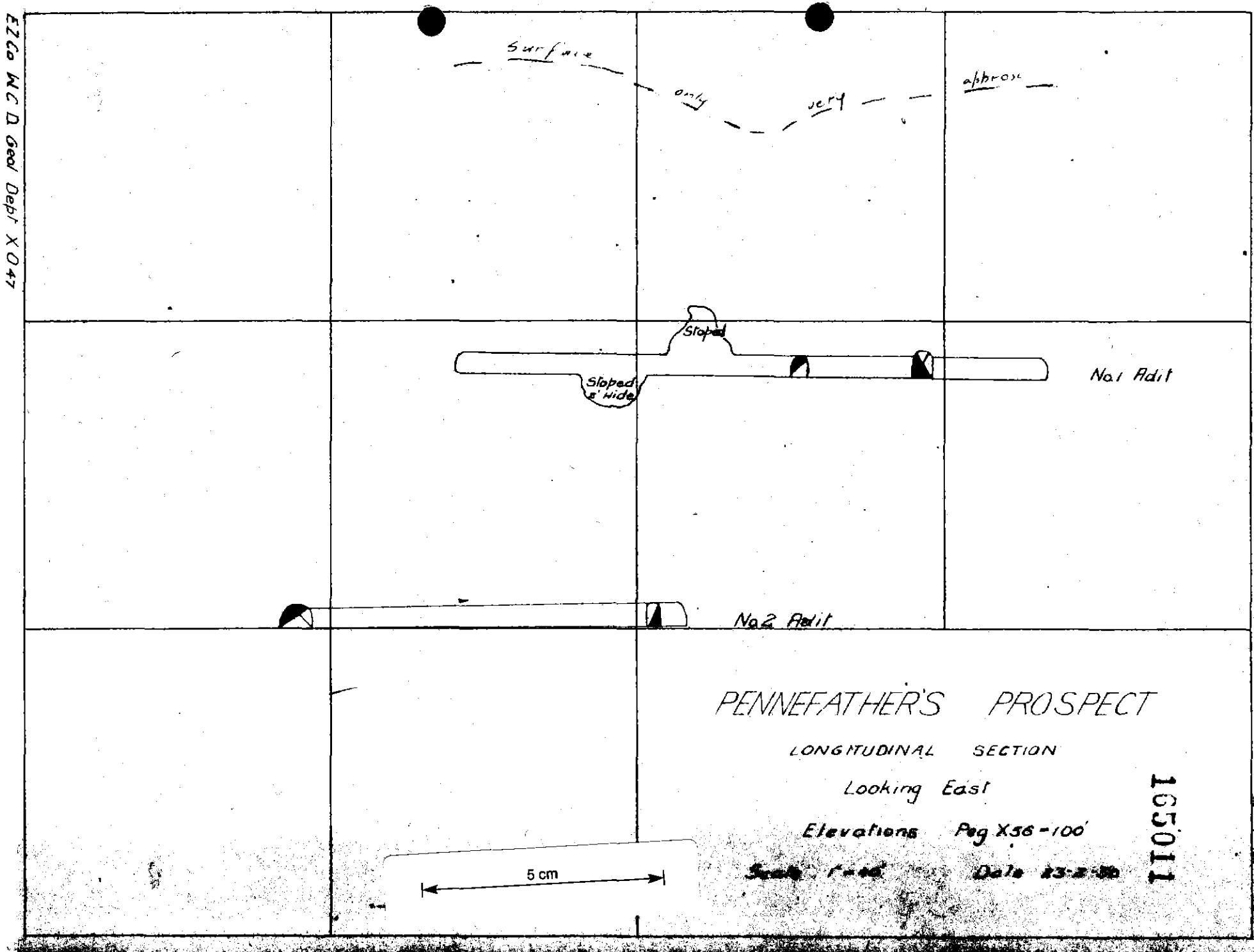
Elevation Peg X 56 = 100'

Scale 1" = 40 Date 23-2-50

5 cm

165010

EZCo NC D Geol Dept X 047



PENNEFATHER'S PROSPECT

LONGITUDINAL SECTION

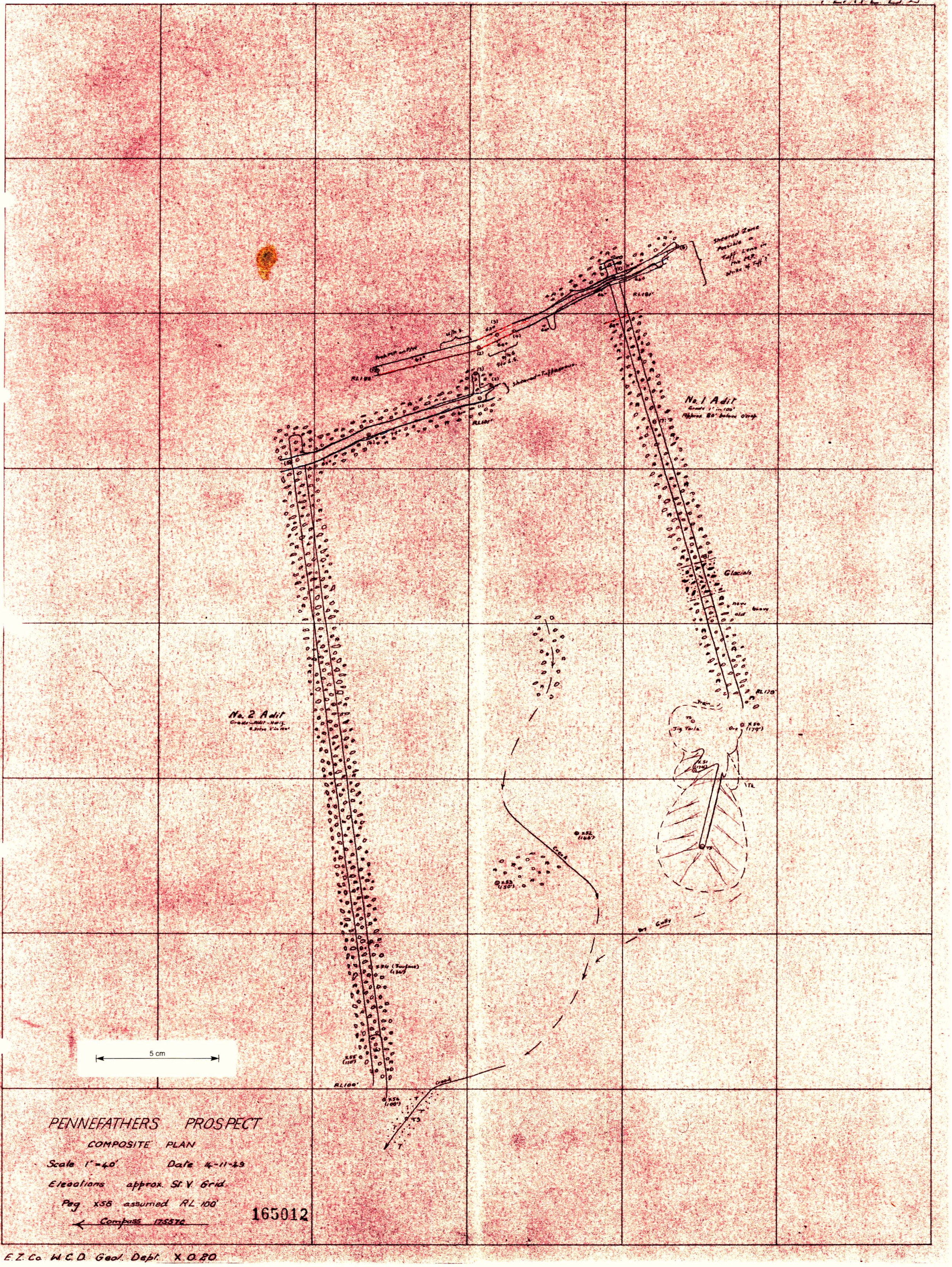
Looking East

Elevations Peg X36 - 100'

Scale 1" = 4' Date 23-3-36

165011

PLATE 44



PENNEFATHERS PROSPECT

COMPOSITE PLAN

Scale 1" = 40' Date 4-11-49

Elevations approx. St. V. Grid

Peg X56 assumed RL 100'

Compass 175570

165012

E.Z. Co. W.C.D. Geol. Dept. X.O.80.