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REPORT No. 2

REVIEW OF BLUE TIER PROSPECT AT COMPLETION

OF FIRST DIAMOND DRILLING PROGRAMME

Lottah, Tasmania.

by

J. L. Morton and A. McGain

April, 1964.

MICROFILMED

Accompanying Report

| | | |
|------------------------------------|-----------|----------------|
| Plan of Portion of Anchor Open Cut | No. A 52 | Scale 1" = 40' |
| Section at 5100N Anchor Open Cut | No. A 54 | 1" = 40' |
| Section at 5200N Anchor Open Cut | No. A 55 | 1" = 40' |
| Section at 5300N Anchor Open Cut | No. A 56 | 1" = 40' |
| Section at 5400N Anchor Open Cut | No. A 57 | 1" = 40' |
| Section at 5500N Anchor Open Cut | No. A 58 | 1" = 40' |
| Longitudinal N - S Projection | No. A 121 | 1" = 40' |

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SUMMARY

Five diamond drill holes totalling 307 feet have been completed. Tin enrichment is associated with the margins of flat greisen or greisenised zones. Bottom of zones is indicated as being about 80 feet below top of greisen. The occurrence of higher grade lenses is again indicated.

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INTRODUCTION

A diamond drilling programme as set out in the Proposed Diamond Drilling and Geological Programme dated 11th December, 1963 has been completed. This work was planned to augment results of a Sampling Programme carried out during the previous year and was designed to test depth extensions of the tin bearing zones. Five holes were drilled for a total of 309 feet. No additional surveying or mapping was done.

ECONOMIC GEOLOGY.

Drilling has indicated a series of flat zones alternating between granite, greisenised granite and greisen. The zones dip gently to the south following the contour of the main granite mass. Structural attitude of the zones in an east-west direction has not been tested, but they are most probably flat. Please refer to scale Longitudinal N-S section and cross sections.

Tin values are generally concentrated close to the granite-greisen contact, but low values are also erratically dispersed within the zones. Boundaries between greisenised granite and granite are gradational, while greisen boundaries are more defined.

Logs of Diamond Drill holes are summarised as follows:-

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D.D.H. 1.

Collar Location 5067.5N, 24775.5 E; E1921.8 Hole Vertical.

| From | To | Description | Assay % Sn. | Length | Footage | |
|------|------|---|----------------|--------|---------|------|
| | | | | | From | To |
| 1.0 | 51.0 | Granite; partially silicified in parts. Highly weathered between 18.0 & 35.0 | 0.22 | 2.0 | 1.0 | 3.0 |
| | | | 0.11 | 6.0 | 6.0 | 12.0 |
| | | | 0.11 | 2.2 | 21.0 | 23.2 |
| | | | 0.12 | 6.0 | 24.0 | 30.0 |
| | | | 0.54 | 18.0 | 33.0 | 51.0 |
| | | | <u>OR</u> | | | |
| | | | 0.84 | 9.0 | 36.0 | 45.0 |

D.D.H. 2.

Collar Location 5205.6 N, 24825.2 E; E1 945.8 Hole Vertical

| From | To | Description | Assay %Sn | Length | Footage | |
|------|------|-----------------------------------|--------------|--------|---------|------|
| | | | | | From | To |
| 0 | 26.7 | Granite. Moderat- ely altered. | | | | |
| 26.7 | 38.5 | Greisen. Highly silicified | 0.237 | 12.0 | 27.0 | 39.0 |
| 38.5 | 40.5 | Granite, Moderately altered. | | | | |
| 40.5 | 42.5 | Greisen | | | | |
| 42.5 | 50.0 | Granite. | | | | |

D.D.H. 3.

Collar Location 5295.5 N, 24886.2E E1 965.6 Hole Vertical

| From | To | Description | Assay %Sn | Length | Footage | |
|------|-------|--|--------------|------------|---------|------|
| | | | | | From | To |
| 3.0 | 9.0 | Greisen. Occasion- al trace chalcopyrite and cassiterite | 0.467 | 12.0 | 3.0 | 15.0 |
| 9.0 | 36.7 | Granite. Yellowish. Moderat- ely altered. | 0.27 | 3.0 | 30.0 | 33.0 |
| 36.7 | 53.0 | Greisen. Yellowish occasional cassit- erite crystals. | 0.172 | 12.0 | 33.0 | 45.0 |
| 53.0 | 105.0 | Not logged | | No Values. | | |

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D.D.H. 4.

Collar Location 5384.2 N, 24864.8E E1 981.7 Hole Vertical

| From | To | Description | Assay %Sn. | Length | Footage | |
|------|------|--|---------------|--------|---------|------|
| | | | | | From | To |
| 0 | 14.5 | Greisen silicified. Occasional Chalco- pyrite. | 0.11 | 3.0 | 6.0 | 9.0 |
| 14.5 | 38.0 | Granite. Highly silicified | 0.247 | 30.0 | 12.0 | 42.0 |
| | | | OR 0.43 | 9.0 | 15.0 | 24.0 |
| 38.0 | 50.0 | Greisenised granite. | 0.28 | 2.0 | 48.0 | 50.0 |

D.D.H. 5.

Collar Location 5480.6 N, 24868.2 E E1.1007.0 Hole Vertical.

| From | To | Description | Assay %Sn. | Length | Footage | |
|------|------|------------------------------------|---------------|--------|---------|------|
| | | | | | From | To |
| 1.4 | 23.0 | Greisen. Felspar fairly common. | 0.10 | 3.0 | 1.4 | 4.4 |
| 23.0 | 28.3 | Greisenised granite | | | | |
| 28.3 | 33.0 | Greisen. Minor felspar. | | | | |
| 33.0 | 45.0 | Greisenised granite | 0.10 | 3.0 | 43.4 | 46.4 |
| 45.0 | 51.0 | Greisen. Highly silicified. | | | | |

These holes together with channel sample data are shown on attached cross sections and Longitudinal Sections.

Apart from the wide spread of tin values in hole number 4, results of this drilling indicate two separate horizons of mineralisation.

Although the lower horizon would not average economic grade, hole number 1 intersected 18 feet grading 0.54% Sn within which a 9 foot section grades 0.84% Sn. It is possible that this lies on the periphery of a high grade lens similar to the one indicated in sections 5200N, 5300N.

Hole number 3 was deepened to a depth of 105 feet and no values were intersected. This indicates that ore zones do not repeat at greater depths than about 80 feet below top of greisen, however, an occasional hole should be extended in future to confirm this.

CONCLUSIONS.

Reference should be made to Report No. 1. dated 15th August, 1963 and the Conclusions on Page 5. Results of the present work do not indicate sufficient depth extensions or repetitions of the ore zones to support open cut type mining. However, the occurrence of discontinuous flat lenses is further indicated.

RECOMMENDATIONS.

It is recommended that vertical diamond drill holes be drilled to depths of from 150 to 175 feet on Sections 5100N, 5200N and 5300N to the east of the Anchor Cut. These should be placed so that they augment existing data, and results of the work used to guide further drilling to the east, north and south.

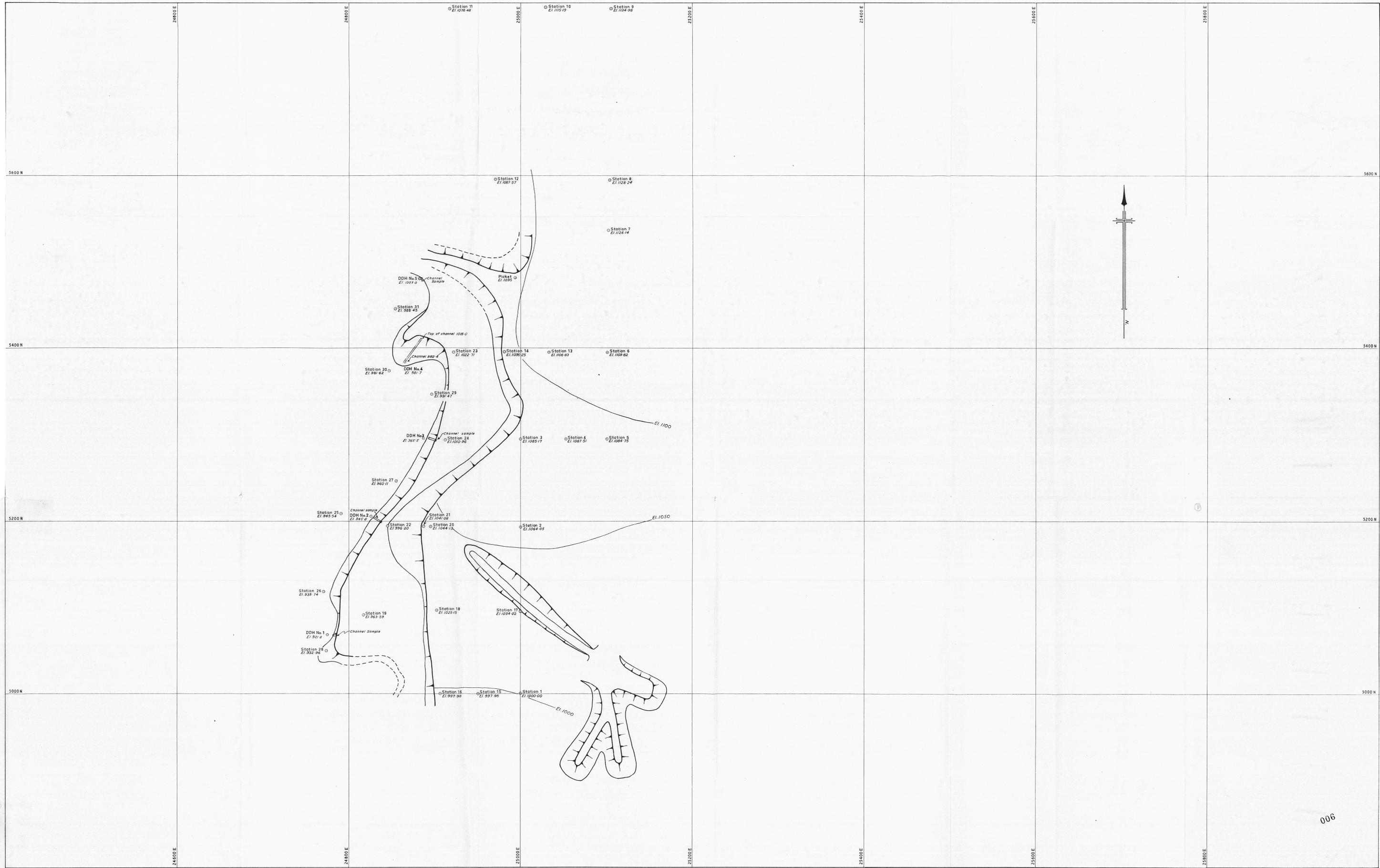


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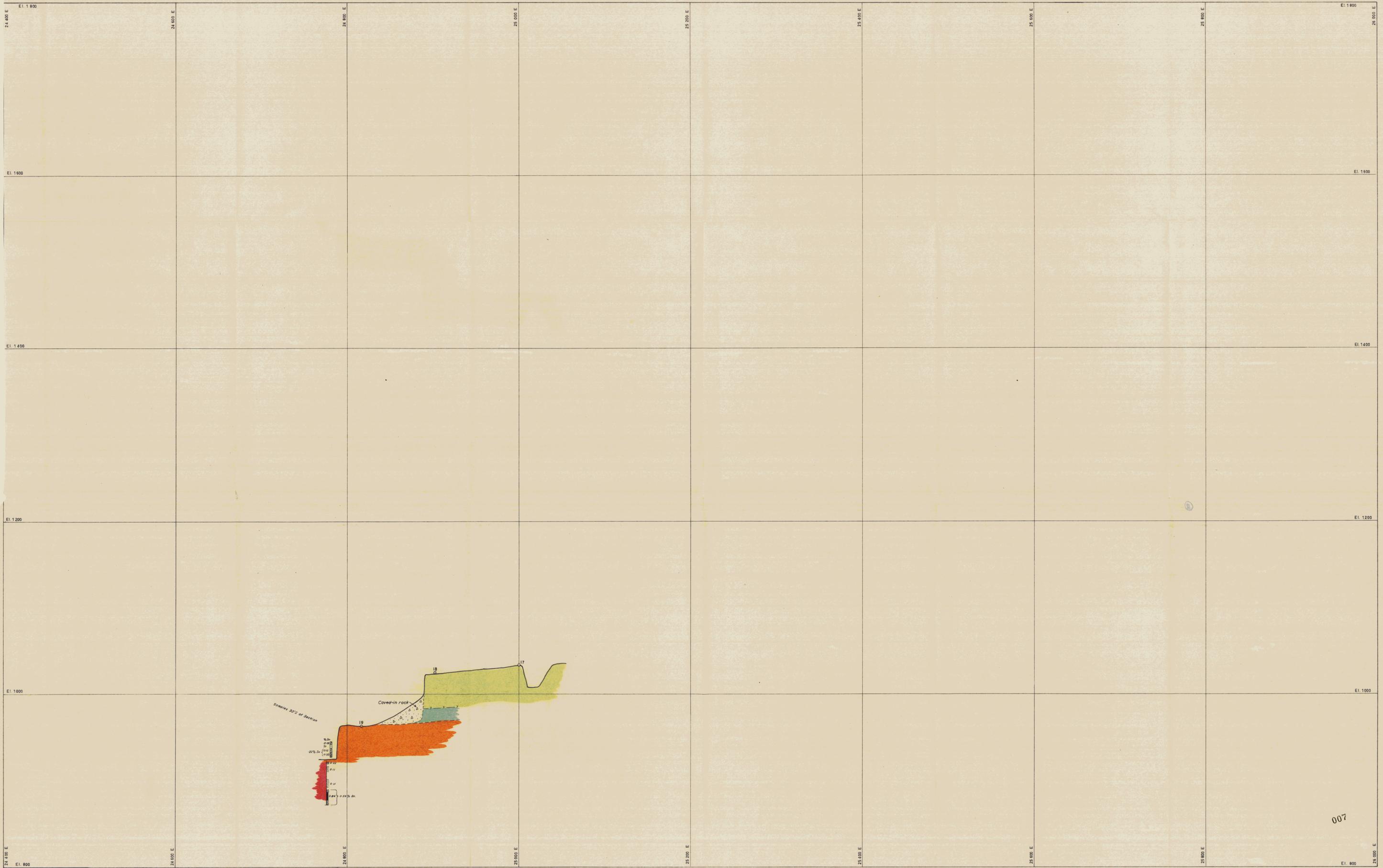
Melbourne
30th April, 1964.



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ABERFOYLE TIN DEVELOPMENT PARTNERSHIP
 BLUE TIER TIN PROSPECT
 PLAN OF PORTION OF ANCHOR OPEN CUT

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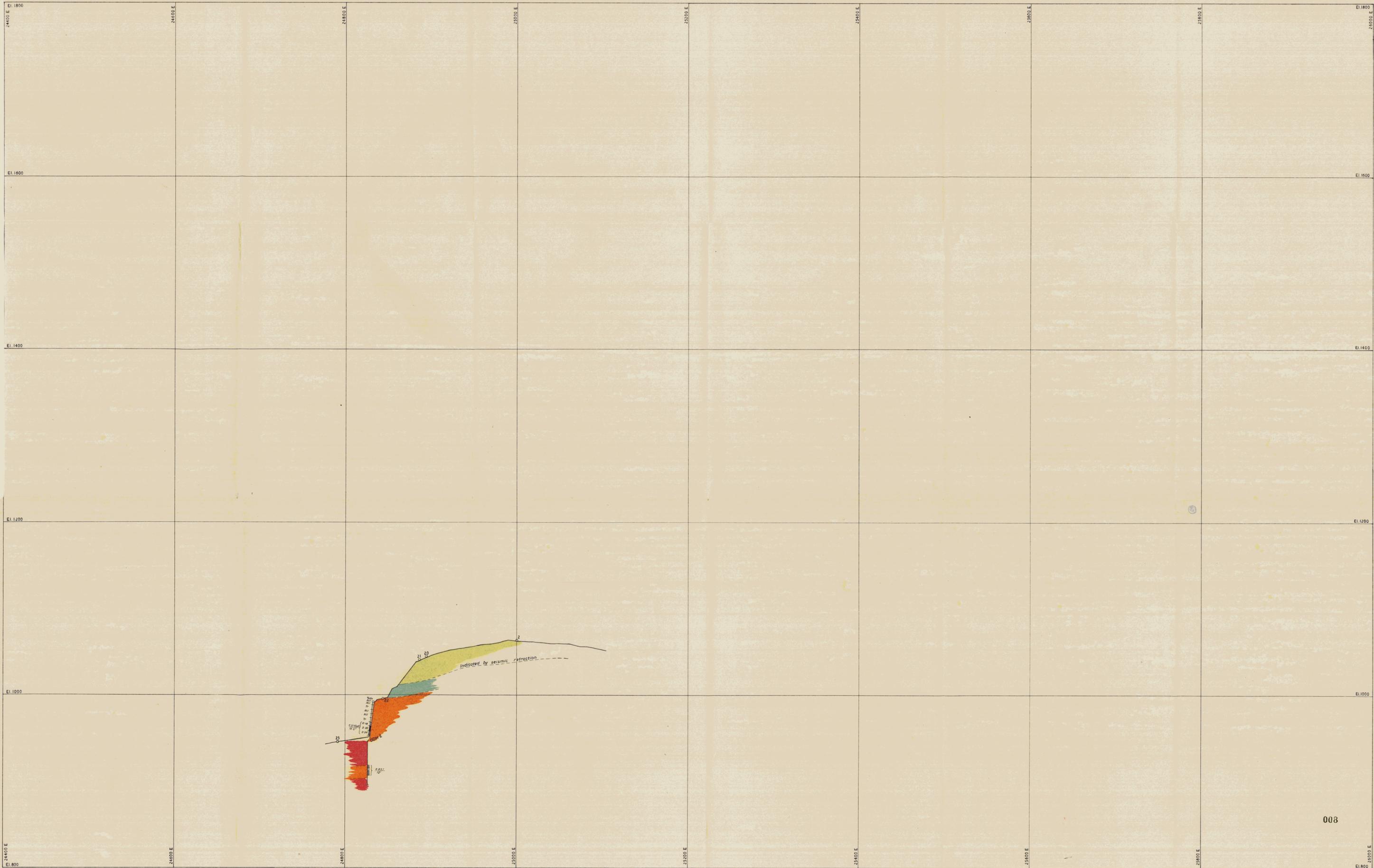


ABERFOYLE TIN DEVELOPMENT PARTNERSHIP
 BLUE TIER TIN PROSPECT
 CROSS SECTION AT 5100 N-ANCHOR OPEN CUT
 LOOKING NORTH

- LEGEND
- Granite
 - Kaolinised granite
 - Decomposed granite
 - Gneiss
 - Greisenised granite

- ASSAY LEGEND
- NIL
 - ▨ 01 to 09%Sn
 - ▨ 10 to 19%Sn
 - ▨ 20 to 49%Sn
 - ▨ More than 50%Sn

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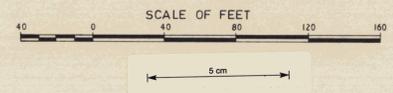
ABERFOYLE TIN DEVELOPMENT PARTNERSHIP
 BLUE TIER TIN PROSPECT
 CROSS SECTION AT 5200 N-ANCHOR OPEN CUT
 LOOKING NORTH

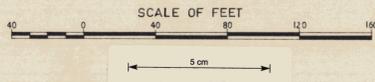
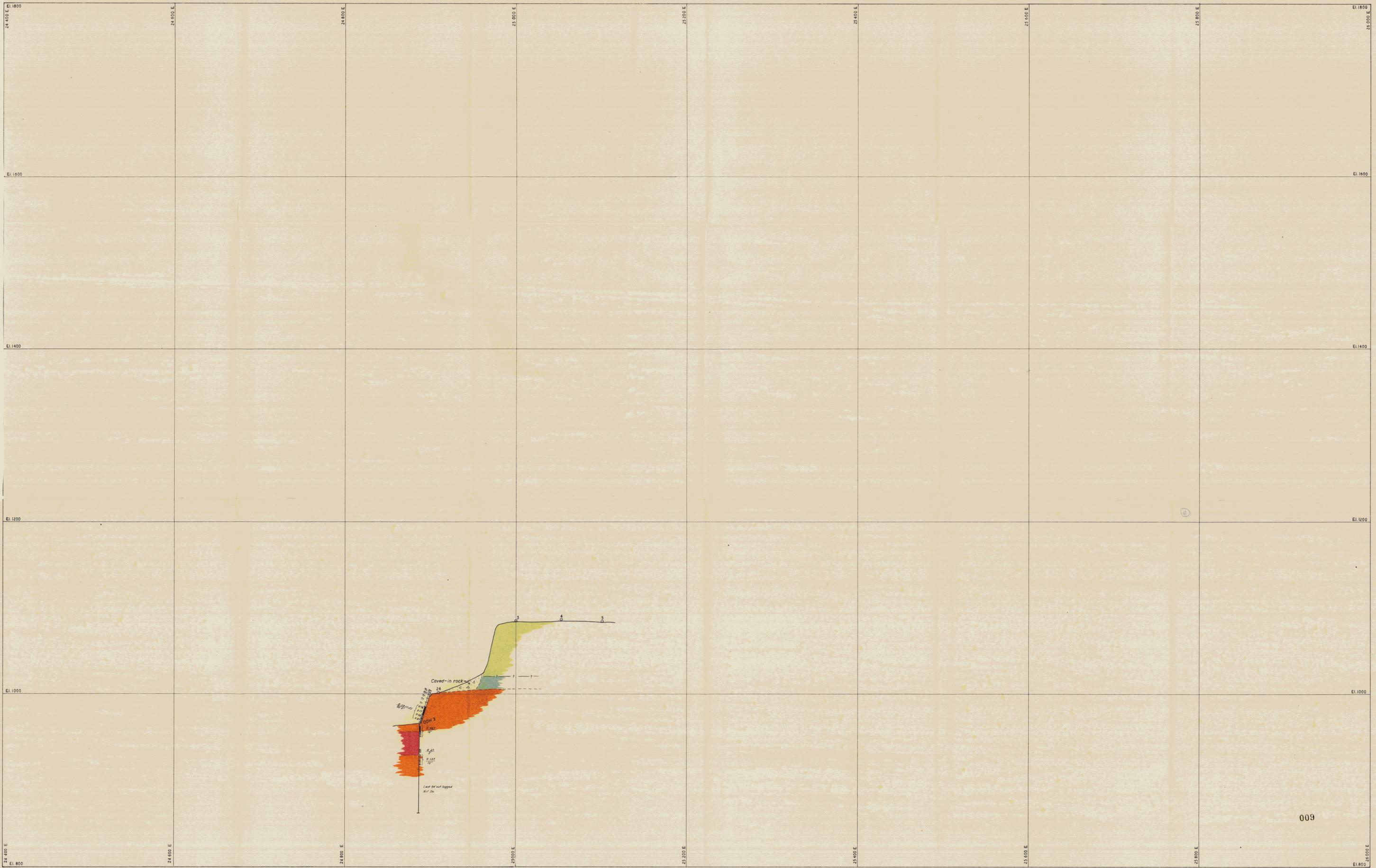
LEGEND

| | |
|---|--|
| ■ Granite | ■ Koolinised granite |
| ■ Decomposed granite | ■ Greisen |
| ■ Greisenised granite | |

ASSAY LEGEND

| | |
|---|-----------------|
| □ | Nil |
| □ | 01 to 09%Sn |
| □ | 10 to 19%Sn |
| □ | 20 to 49%Sn |
| □ | More than 50%Sn |





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ABERFOYLE TIN DEVELOPMENT PARTNERSHIP
 BLUE TIER TIN PROSPECT
 CROSS SECTION AT 5300 N-ANCHOR OPEN CUT
 LOOKING NORTH

| | |
|--|---|
| LEGEND | ASSAY LEGEND |
| <ul style="list-style-type: none"> Granite Kaolinised granite Decomposed granite Greisen Greisenised granite | <ul style="list-style-type: none"> NIL 01 to 09%Sn 10 to 19%Sn 20 to 49%Sn More than 50%Sn |



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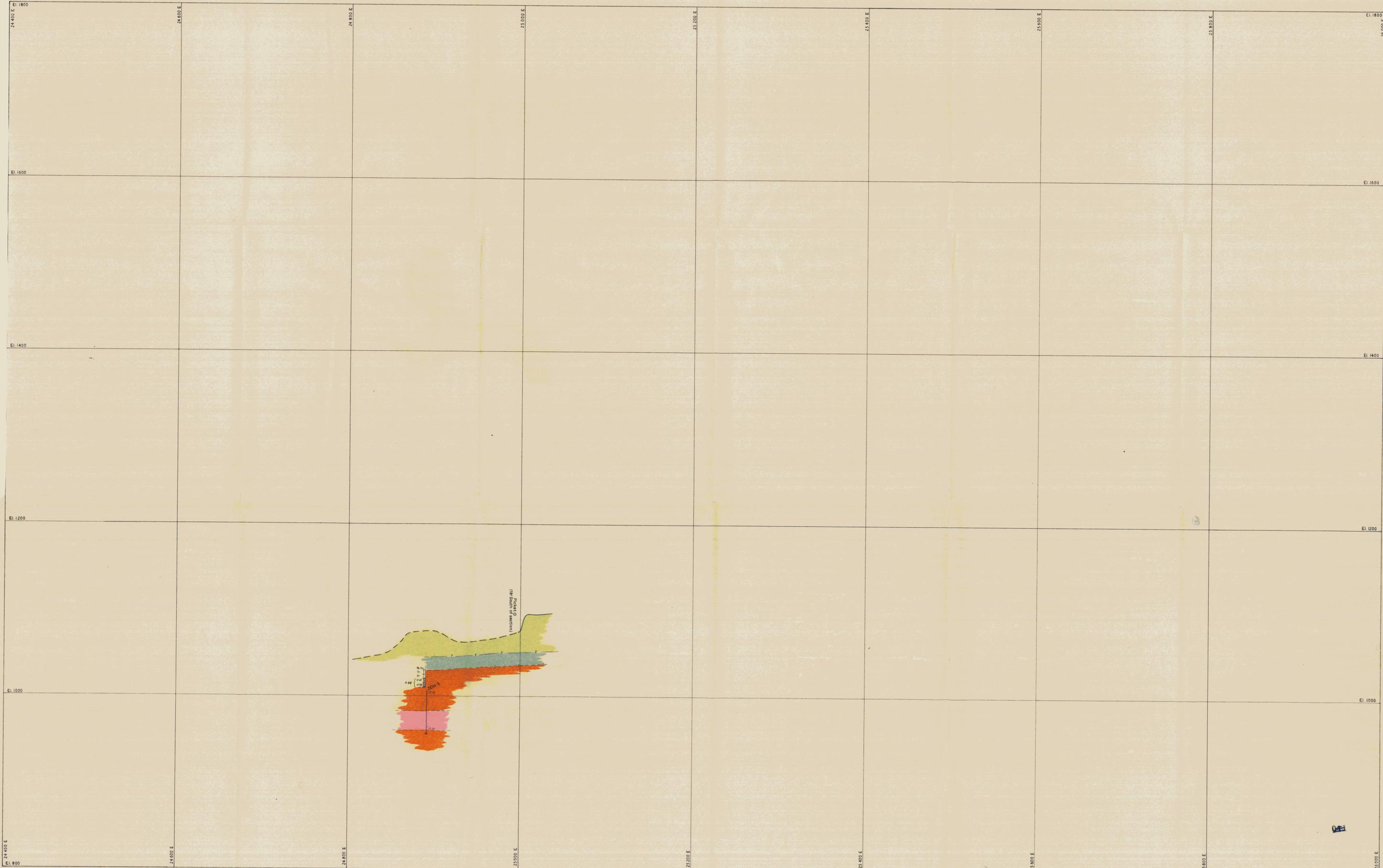
ABERFOYLE TIN DEVELOPMENT PARTNERSHIP
 BLUE TIER TIN PROSPECT
 CROSS SECTION AT 5400 N-ANCHOR OPEN CUT
 LOOKING NORTH

| LEGEND | | ASSAY LEGEND | |
|---------------------------------------|---------------------|--|------------------|
| ■ | Granite | | NIL |
| ■ | Kaolinised granite | | 01 to 09% Sn |
| ■ | Decomposed granite | | 10 to 19% Sn |
| ■ | Greisen | | 20 to 49% Sn |
| ■ | Greisenised granite | | More than 50% Sn |

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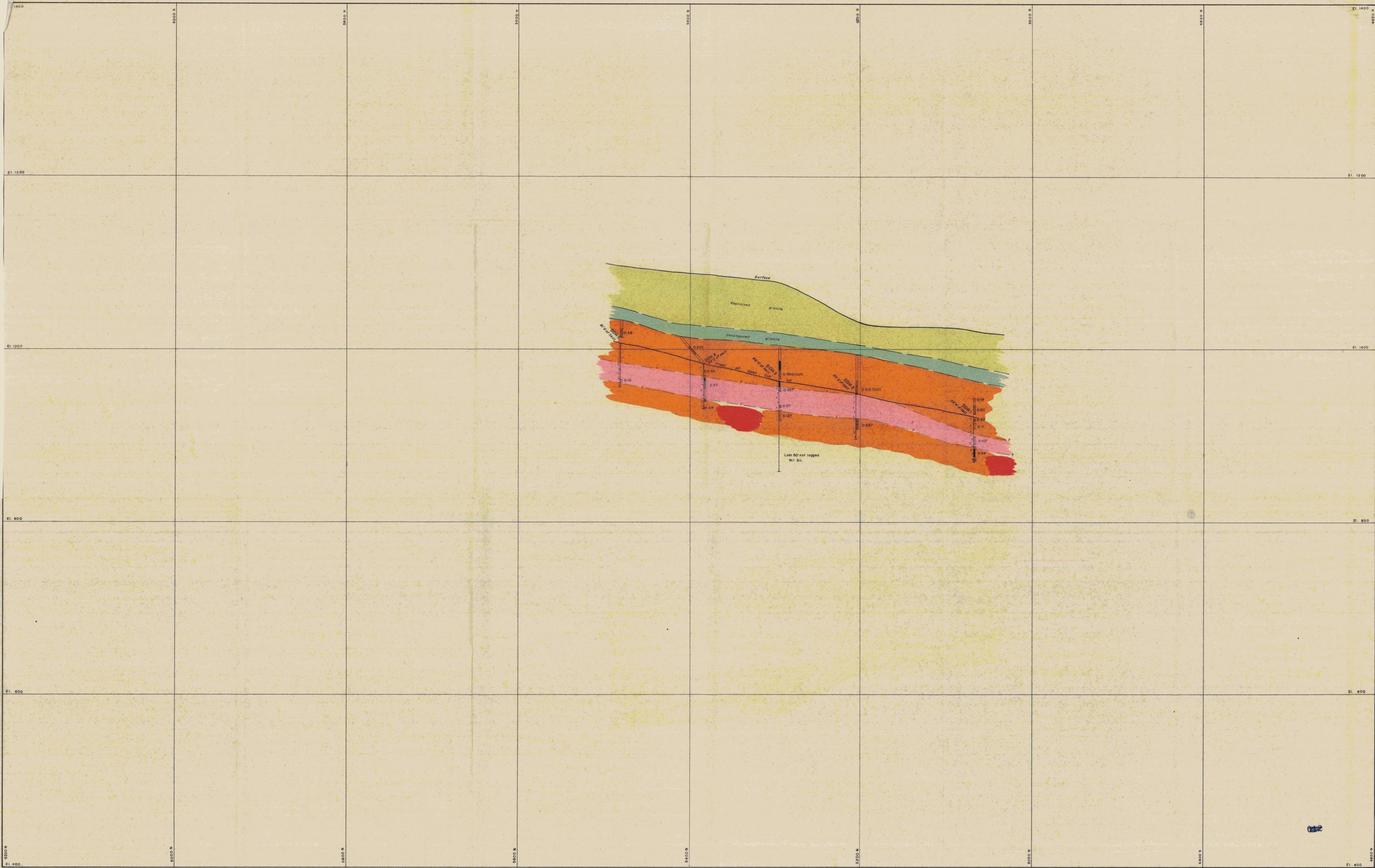


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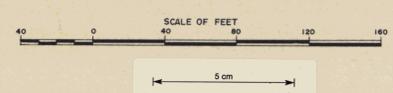
ABERFOYLE TIN DEVELOPMENT PARTNERSHIP
 BLUE TIER TIN PROSPECT
 CROSS SECTION AT 5500 N-ANCHOR OPEN CUT
 LOOKING NORTH

- LEGEND
- Granite
 - Kaolinised granite
 - Decomposed granite
 - Greisen
 - Greisenised granite
- ASSAY LEGEND
- Nil
 - 01 to 09%Sn
 - 10 to 19%Sn
 - 20 to 49%Sn
 - More than 50%Sn

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ABERFOYLE TIN DEVELOPMENT PARTNERSHIP
BLUE TIER TIN PROSPECT
LONGITUDINAL N-S PROJECTION AT 24800' E
LOOKING EAST

LEGEND

| | | | |
|--|--------------------|--|------------------|
| | Kalihsed granite | | Gneiss |
| | Decomposed granite | | Gneissed granite |
| | Granite | | |

ASSAY LEGEND

| | |
|--|------------------|
| | Nil |
| | 01 to 09% Sn |
| | 10 to 19% Sn |
| | 20 to 49% Sn |
| | More than 50% Sn |

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