

037001

→ V.T.
R.B.

REPORT ON ALLUVIAL EXPLORATION PROGRAM

(FEBRUARY - MARCH 1986)

AT MATHINNA TASMANIA

BY TASMANIAN ALLUVIALS

EL 55/83

OPEN FILE

86-2542

AMG REFERENCE POINTS ADDED

037c

SUMMARY

The first stage of the Alluvial Exploration Program carried out by Tasmanian Alluvials at Mathinna from February to March 1986 involved the digging of firstly 3 test costeans and secondly the digging of 16 test hours. holes.

The second stage involved the transporting of material removed from these costeans to our treatment plant at Lisle where it was then treated to determine values of the deposit at Mathinna.

The third stage involved recovery and weighing of gold and a breakdown of costing for the exploration program.

WINNING AND TREATMENT OF TEST GROUND

At the time work was commenced at the start of February, 1986 the paddock's in which we decided to test were too wet to gain access with the excavator or trucks. Permission was then sought from the Fingal Municipality to excavate costeans along the Upper Esk Road and the top end of Dunn Street. Permission was granted and we commenced excavation along Dunn Street with the use of an excavator and two 7.3m³ trucks which we hired locally. Overburden or topsoil was stockpiled beside the costean and 500 yards³ of wash was removed and carted to the top end of Dunn Street and stockpiled on a block of ground aquired by us. Once the removal of wash was completed from this costean we then backfilled with oversize rubble from old mine dumps in the area and topsoil was then returned to leave the ground as it was originally. (Refer to Plate No.1).

We then moved down to the South Esk Road and repeated exactly the same procedure removing 500 yards³ of wash from the table drain beside the road and backfilling as above. (Refer to Plate No.2).

This wash was then trucked to our treatment plant at Lisle using 14.6m³ trucks. Once the 1,000 yards³ was stockpiled at Lisle in two separate heaps we cleaned our treatment plant out thoroughly and commenced putting through the wash from costean No.1 (Dunn Street) once this was completed we once again cleaned the treatment plant thoroughly and concentrated all of the recovered gold into one sample.

We then washed the material from costean No.2 (Upper Esk road) and repeated the same procedure.

With continuing dry weather conditions by the 6th March, 1986 the ground had dried out sufficiently to enable us to excavate a third costean 750 metres up Black Horse Gully from Dunn Street.

We then hired a low loader and trucked our excavator to Mathinna. We also hired a fleet of 14.6m³ trucks. Because access was easily attained to the costean we could load directly into the trucks with the excavator and cart straight to Lisle. We once again trucked 500 yards³ to our treatment plant and backfilled the costean as before.

MICROFILMED

After all of the wash had arrived to our plant we once again put it through and concentrated the gold as before.

While our excavator was at Mathinna we also dug numerous holes to determine overburden to wash ratios. These holes were dug 100 meters apart along Black Horse Gully and 50 metres apart across the Gully commencing at James Street going up towards costean No.3.

The excavating of these holes involved stripping the topsoil and placing it to one side of the hole, then the wash was removed until we struck a definite bedrock bottom. The next step involved recording the hole number, the depth of topsoil or overburden and the depth of wash. Hence the overburden to wash ratio and finally the type of bottom. Once this was recorded (see result) the wash material was then placed back in the hole and packed down by the excavator, finally the topsoil was replaced and rolled down leaving the paddocks in their original condition.

APENDIX 1

Depths of Test Holes.

Numbers 1-16

Refer to Plate No.4 - All Measurements in Metres

H.1.

0 - 0.3

0.3 - 2.6

2.6

Overburden

Gravel

Sandstone Bedrock

H.2.

0 - 0.67

0.67 - 2.0

2.0

Overburden

Gravel

Sandstone Bedrock

H.3.

0 - 0.67

0.67 - 2.0

2.0

Overburden

Gravel

Sandstone Bedrock

H.4.

0 - 0.8

0.8 - 1.8

1.8

Overburden

Gravel

Sandstone Bedrock

H.5.

0 - 0.3

0.3 - 1.8

1.8 - 3.6

3.6

Overburden

Clayey Gravel

Gravel

Sandstone Bedrock

H.6.

0 - 0.3

0.3 - 2.1

2.1

Overburden

Gravel

Sandstone Bedrock

H.7.

0 - 0.67

0.67 - 2.3

2.3

Overburden

Gravel

Sandstone Bedrock

H.8.

0 - 0.3

0.3 - 2.1

2.1

Overburden

Gravel

Sandstone Bedrock

H.9.

0 - 0.3

0.3 - 2.4

2.4

Overburden

Gravel

Sandstone Bedrock

H.10.

0 - 1.2

1.2 - 3.9

3.9

Overburden

Clay

Sandstone Bedrock

H.11.

0 - 0.45
0.45 - 3.5
3.5

Overburden
Gravel
Sandstone Bedrock

H.12.

0 - 0.8
0.8 - 3.9
3.9

Overburden
Gravel
Sandstone Bedrock

H.13.

0 - 0.45
0.45 - 1.65
1.65 - 3.5
3.5

Overburden
Clay
Gravel
Sandstone Bedrock

H.14.

0 - 4.7
4.7

Gravel
Sandstone Bedrock

H.15.

0 - 0.3
0.3 - 2.1
2.1

Overburden
Clay
Sandstone Bedrock

H.16.

0 - 0.3
0.3 - 3.0
3.0

Overburden
Gravel
Sandstone Bedrock

RESULTS

VALUES

The free gold collected from each of the costeans was batched and weighed separately so as to determine the values of each. We obtained a result by taking 80% of the weight of the gold as being pure. This was accounting for two things, the gold not being pure to start with and also not being as clean as we would like. After this weight was determined we then divided it by the amount of yardage in each trench, in this case 500, to establish how many grams per yard the ground was going.

Total weight of gold recovered was 254.3 grams. 62.2 grams of this is returned to the Tasmanian Mines Department, we have kept the remaining 192.1 grams to have for sizing analysis. This will be forwarded to the Mines Department at a later date.

G400,081 Sample No. held by Geol. Survey.

handed back by Director of Mines.

THE RESULTS BEING

Costean No. 1 (Dunn Street) - .1841 grams/Yard³.

Costean No. 2 (Upper Esk Road) - .1197 grams/Yard³.

Costean No.3 (750 Metres From Dunn Street) - .2048 grams/Yard³.

Our estimated reserves from surface area of the ground multiplied by the average depth comes to approximately 1,070,000 Yards³ of material, of which 500,000 Yards is better than .1841 grams/Yard³. The remaining 570,000 Yards being under .1841 grams/Yard³.

AVERAGE DEPTHS

The average depths of ground from each costean and the test holes are as follows:

COSTEAN NO. 1 (DUNN STREET)

Overburden - 0.77m
Wash - 1.27m
Total - 2.04m

COSTEAN NO. 2 (UPPER ESK ROAD)

Overburden - 1.06m
Wash - 1.06m
Total - 2.12m

COSTEAN NO. 3 (750m FROM DUNN STREET)

Overburden - 0.29
Wash - 2.36
Total - 2.65

TEST HOLES

Overburden - 0.477
Wash - 2.39
Total Depth - 2.86

EXPENDITURE

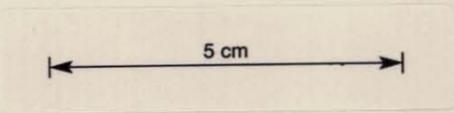
Truck Hire	- \$20,252
Excavator Hire	- \$ 4,175
Treatment Costs	- \$ 4,555
Incidentals	- \$ 270.80

Total cost of exploration program carried out by Tasmanian Alluvials on EL 55/83 on February-March 1986 was \$29,252.80.

COSTEAN No. 1. — DUNN ST.



VERTICAL SCALE 1 : 150
 HORIZONTAL SCALE 1 : 1000



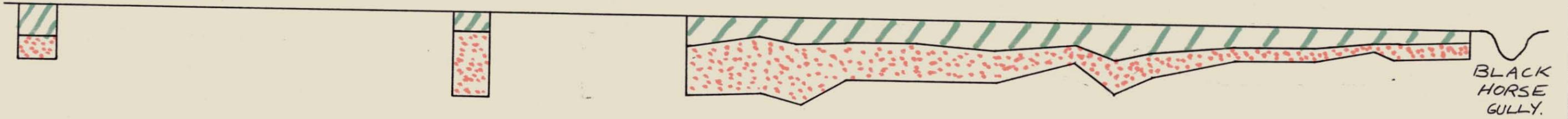
 OVERBURDEN MATERIAL
 WASH MATERIAL.

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<u>PLATE No. 1.</u>
<u>TASMANIAN ALLUVIALS.</u>

COSTEAN No. 2. - UPPER ESKER RD.



VERTICAL SCALE 1: 150

HORIZONTAL SCALE 1: 1000

5 cm

 OVERBURDEN MATERIAL.
 WASH MATERIAL.

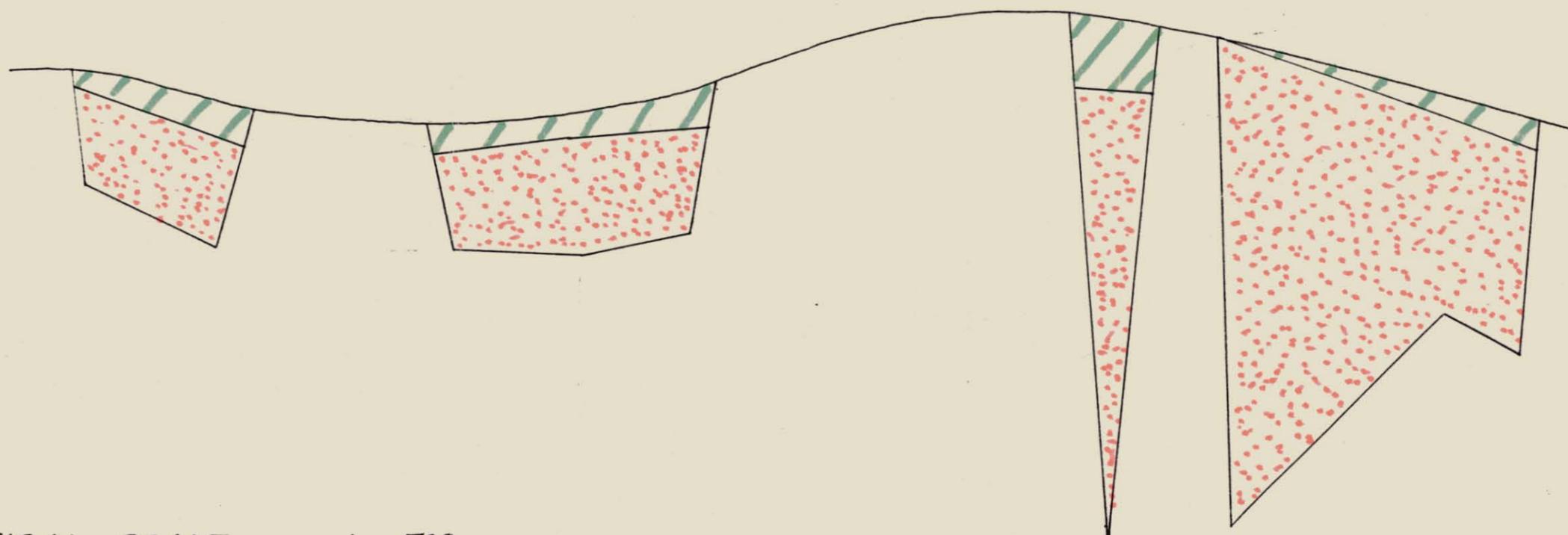
600

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PLATE No. 2.

TASMANIAN ALLUVIALS

COSTEAN No. 3. - 750 METRES UPSTREAM FROM DUNN ST.



VERTICAL SCALE 1 : 500
HORIZONTAL SCALE 1 : 61

5 cm

 OVERBURDEN MATERIAL.
 WASH MATERIAL.

PLATE No. 3.

TASMANIAN ALLUVIALS.

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800

007 037011



- OLD DIGGINGS.
- CREEK.
- OUR SLOTS.

SCALE 1 : 3300

5 cm

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PLATE No.4

TASMANIAN ALLUVIALS

AMG REFERENCE POINTS ADDED

5 cm

MINERAL - TOPOGRAPHIC "SERIES 50" MATHINNA



MICROFILMED
FICHE No. 1

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