Ref No 2547 290

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DEPARTMENT OF MINES–TASMANIA

61951 M5614

Churn Drill Log

Area: Thureau's Lead, St. Helens **Hole No.** 1 **Line No.** 1 **Grid Reference** 580 N General AM660140OE 5424900N 5685/61

Crew Harkin Green Date 27/11. - 8/12. 1961 Clean up by J. Watt, Dorset Tin Shoe Diameter 7½" Factor 0.3068 cu. ft. per ft. 88 ft. per Cu. Yd.

No Core Held.

Section Feet From	Section Feet To	Volume, Cu. ft. Theoretical	Volume, Cu. ft. Bucket	Volume, Cu. ft. Jig	+ ⅜ %	Colours of Gold	Jig Tails	Cassiterite Actual	Cassiterite Adjd.	Value lb. p.c.y.	Formation	Remarks
0	10	3.068	7" 1.54		-	-					0-1 Top Soil	
10	15	1.534	5" 1.10		-	-					-2 Cemented Sand	
15	20	1.534	4¼" .935		-	-					-5 Sand	
20	25	1.534	4⅝ 1.017		-	-					-9½ Clay	
25	30	1.534	4⅜ .962		-	-					-11 " Gritty	
30	35	1.534	5¼ 1.155		-	-					-19 "	
35	40	1.534	6⅜ 1.402		-	-					-30 " " , Semi-cemented	
40	45	1.534	10⅝ 2.337		-	-					-53 " "	
45	50	1.534	11½ 2.53		-	-					-61 Granite, Partially decomposed, B.R.	
50	55	1.534	8½ 1.87		-	-						
		16.874	14.848		-	-	nil	trace		trace		

Assay %

Adjusted to 70% Sn.

Drum Measurement: 1" - 0.22 cu. ft.

$\frac{27}{7000} = 0.00386$

$Vol = \frac{WA}{D} \times \frac{18}{108}$

270 gr/ft at 20%
= 1 lb/c.y.

$A = 30$
$D = 5'$ $\quad Vol = \frac{W \times 2.5}{1000}$

$= W \times .025$

50 grams 100% Sn = .18 lbs cubic yd
100 grams 100% Sn = .36 lbs cubic yd.

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