

029, 37, 45, 46
James Doherty

Q37 037 1617

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C.R.A. EXPLORATION PROPRIETARY LIMITED

867001

Ref. No. GENERAL
TASMANIA

SUBJECT: FINAL REPORT ON BAUXITE SEARCH,
DEVONPORT E.L. 36/70 TASMANIA.

AUTHOR: Miss S. E. Close

DATE: 23rd June, 1971.

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Final Report Bauxite Search
E.L. 36/70 Devonport - C.R.A.
by
S.E. Close
23/6/71

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867002

C.R.A. EXPLORATION PTY. LIMITED



23 June, 1971

MEMORANDUM TO : G. W. PATTERSON

Copy to : C. L. Knight

From : Miss S. E. Close

Final Report on Bauxite Search, Devonport E.L. 36/70 Tasmania

Final testing of this area in central northern Tasmania was carried out using a Gemco Model 210A auger drill. A total footage of 1148 feet was drilled in 57 holes and 206 samples were sent to Zinc Corporation for Al_2O_3 , SiO_2 and Fe_2O_3 analysis.

Drilling was concentrated on the two most promising areas, near Sassafras and near Deloraine, although all areas of soil over basalt within the E.L. were tested.

CONCLUSION

It is recommended that the E.L. be relinquished before the renewal date of 24th June, 1971. A memo has already been written to this effect.

No worthwhile results were obtained. Most of the 206 samples contained less than 30% total alumina, while 8 contained between 30 and 40% total alumina, but were also high in Fe_2O_3 and SiO_2 . The higher values occurred in holes B20 and B25.

GENERAL DISCUSSION

As stated before, the drilling was carried out on all the areas of soil over basalt within the E.L. These have been described in preceding reports.

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As the thickness of possible bauxite was expected to be less than 10 feet, or even less than 5 feet, drillholes were spaced widely apart and still covered a minimum area for an economic deposit. For example, using a factor for bauxite of 1×10^6 tons/sq. mile foot and 50×10^6 tons for a minimum size orebody, with five foot thickness the minimum area is 10 sq. miles and with a ten foot thickness the minimum area is 5 sq. miles.

The E.L. was taken up on the only ground available. Areas to the west near the coast may be more prospective, but would probably only consist of very small patches of bauxite grade. For example, the deposits at Myalla described in Owen's B.M.R. Bulletin 24 and the small area near Forth which gave high alumina values in the hand augering program.

DRILLING

The contractors were R. & F. Diamond Drilling Co. The Gemco Model 210A proved to be the most successful yet used for this type of work. The drilling rate was faster than for the older lower powered models. However, the rods still tended to stick in damp clay, so the new Gemco Model 210B would probably be the most suitable one for bauxite drilling.

SEC:ry

S. E. Close

KEYWORDS

Bauxite, laterite, drilling - auger, assays - drill, basalt.

Locality : Tasmania 1:250,000 Sheet 3 Burnie
Sheet 4 Launceston

ATTACHMENTS

Auger drill log and assay sheets.

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- 3 -

LIST OF PLANS

<u>Plan No.</u>	<u>Title</u>	<u>Scale</u>
T783	Devonport E L 36/70 Gemco Auger Hole Locations.	1:250,000

AUGER DRILL LOG & ASSAY SHEET

Key 1

LOCALITY *Devonport EL 36/70.*

CO-ORDINATES.....

DATE DRILLED *4.5.71*

SAMPLE DISPATCHED.....

D.P.O. No. *13561*

ANALYSED BY *ZC*

HOLE No.	SAMPLE NUMBER	FROM	TO	DESCRIPTION	S ₂ O	Al ₂ O ₃	Fe ₂ O ₃	T ₂ O	LOI	AI
<i>B1</i>	<i>214201</i>	<i>0</i>	<i>5</i>	<i>Brown soil</i>	<i>43.2</i>	<i>13.4</i>	<i>27.2</i>			
<i>Not a core</i> <i>487887</i>	<i>214202</i>	<i>5</i>	<i>11</i>	<i>Yellow sticky clay with some grey clay + small amt. red clay.</i>	<i>41.6</i>	<i>24.5</i>	<i>16.9</i>			
	<i>203</i>	<i>11</i>	<i>15</i>	<i>grey + red + orange clays.</i>	<i>39.8</i>	<i>25.5</i>	<i>18.4</i>			
	<i>204</i>	<i>15</i>	<i>21</i>	<i>Brown + blue clays.</i>	<i>29.6</i>	<i>23.5</i>	<i>27.4</i>			
	<i>214205</i>	<i>21</i>	<i>26</i>	<i>Light brown clay.</i>	<i>29.7</i>	<i>26.3</i>	<i>23.5</i>			
<i>B2</i>	<i>488891</i>	<i>0</i>	<i>3</i>	<i>Brown black soil + 3ft fairly fresh basalt.</i>	<i>44.6</i>	<i>17.2</i>	<i>15.4</i>			
<i>B3</i>	<i>487895</i>	<i>0</i>	<i>4</i>	<i>Red clay with pisolites</i>	<i>47.3</i>	<i>8.7</i>	<i>34.6</i>			
	<i>208</i>	<i>4</i>	<i>11</i>	<i>Pink & grey-green clays.</i>	<i>49.4</i>	<i>27.7</i>	<i>8.6</i>			
	<i>214209</i>	<i>11</i>	<i>17</i>	<i>Tan clay.</i>	<i>51.5</i>	<i>27.6</i>	<i>6.0</i>			

REMARKS:-

AUGER DRILL LOG & ASSAY SHEET

Page 2.

005

LOCALITY *Levanport EL 36/70*

CO-ORDINATES.....

DATE DRILLED *4.5.71*

SAMPLE DISPATCHED.....

D.P.O. No. *13561*ANALYSED BY *2C*

HOLE No.	SAMPLE NUMBER	FROM	TO	DESCRIPTION	S ₂ O ₃	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	LOI	AI
<i>B4</i>	<i>214210</i>	<i>0</i>	<i>3</i>	<i>tan clay</i>	<i>60.1</i>	<i>23.3</i>	<i>4.9</i>			
<i>485897</i>	<i>211</i>	<i>3</i>	<i>5</i>	<i>red clay</i>	<i>58.4</i>	<i>19.9</i>	<i>10.3</i>			
	<i>212</i>	<i>5</i>	<i>10</i>	<i>pink + white clay.</i>	<i>54.3</i>	<i>28.9</i>	<i>3.1</i>			
	<i>214213</i>	<i>10</i>	<i>12</i>	<i>yellow clay.</i>	<i>58.7</i>	<i>24.4</i>	<i>3.5</i>			
<i>B5</i>	<i>214214</i>	<i>0</i>	<i>4</i>	<i>Red clay.</i>	<i>33.4</i>	<i>20.7</i>	<i>28.6</i>			
<i>481897</i>	<i>214215</i>	<i>4</i>	<i>6</i>	<i>Bract with some red clay</i>	<i>35.1</i>	<i>20.0</i>	<i>23.7</i>			
<i>B6</i>	<i>214216</i>	<i>0</i>	<i>5</i>	<i>Orange red clays.</i>	<i>44.2</i>	<i>24.5</i>	<i>16.4</i>			
<i>477886</i>	<i>217</i>	<i>5</i>	<i>11</i>	<i>Red & grey clay.</i>	<i>43.1</i>	<i>24.2</i>	<i>18.6</i>			
	<i>218</i>	<i>11</i>	<i>17</i>	<i>Red with some grey clay.</i>	<i>45.6</i>	<i>25.7</i>	<i>15.0</i>			
	<i>219</i>	<i>17</i>	<i>24</i>	<i>Mostly red clays.</i>	<i>45.5</i>	<i>24.7</i>	<i>16.2</i>			
	<i>214220</i>	<i>24</i>	<i>30</i>	<i>ditto</i>	<i>36.4</i>	<i>25.2</i>	<i>21.6</i>			
	<i>214221</i>	<i>30</i>	<i>36</i>	<i>Light brown clays.</i>	<i>36.8</i>	<i>28.2</i>	<i>16.9</i>			
<i>B7</i>	<i>214222</i>	<i>0</i>	<i>5</i>	<i>Light brown soil</i>	<i>67.5</i>	<i>9.9</i>	<i>13.9</i>			
<i>476883</i>	<i>223</i>	<i>5</i>	<i>11</i>	<i>Red grey + white clay, some fissile.</i>	<i>51.0</i>	<i>20.1</i>	<i>16.4</i>			
	<i>224</i>	<i>11</i>	<i>17</i>	<i>Red + grey clays, more grey near base.</i>	<i>50.1</i>	<i>24.1</i>	<i>14.4</i>			
	<i>225</i>	<i>17</i>	<i>23</i>	<i>Grey clay, some red, brown colours</i>	<i>52.4</i>	<i>26.9</i>	<i>6.8</i>			

REMARKS:-

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C.R.A. EXPLORATION PTY. LIMITED

CRAE FORM 66

AUGER DRILL LOG & ASSAY SHEET

Sheet 3

LOCALITY Reemport EL 36/70

SAMPLE DISPATCHED.....

CO-ORDINATES.....

D.P.O. No. 13561 to end of 884 then 13562

DATE DRILLED 4.5.71

ANALYSED BY ZC

HOLE No.	SAMPLE NUMBER	FROM	TO	DESCRIPTION	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	LOI	AI
B8	214226	0	6	Yellow clay	53.0	20.1	12.2			
467885	227	6	12	Red brown clay	50.9	20.1	14.1			
	228	12	18	Light brown clay	46.4	23.0	13.1			
	229	18	24	ditto	46.0	23.5	13.6			
5.5.71 B9	214230	0	6	Top 2ft brown soil	35.5	23.0	24.0			
464883				not sampled. Sample is red soil with nodules.						
	231	6	12	Orange clay	32.7	27.3	21.1			
	232	12	18	Pale orange clay	28.0	23.6	25.2			
	233	18	24	Fawn mud.	27.4	22.4	25.5			
	214234	24	29	ditto	41.4	18.4	16.4			
	214234									
B10	214235	0	4	Red brown soil	49.5	18.6	14.4			
461884				Abandoned as basalt impedes drilling.						
B11	214236	0	6	Brown orange clay	67.3	11.6	10.3			
464886	237	6	12	brown clay	44.3	18.6	17.5			
	238	12	18	Fawn mud.	27.8	22.5	24.5			
	214239	18	23	Brown clay with slightly weathered basalt fragments	44.4	17.4	16.7			

REMARKS:-

AUGER DRILL LOG & ASSAY SHEET

Sheet 4

007

LOCALITY Levonport EL 36/70
 CO-ORDINATES.....
 DATE DRILLED 5.5.71

SAMPLE DISPATCHED.....
 D.P.O. No. 13562
 ANALYSED BY ZC

HOLE No.	SAMPLE NUMBER	FROM	TO	DESCRIPTION	S ₂ O ₂	Al ₂ O ₃	Fe ₂ O ₃	T ₂ O ₂	LOI	AI
B12 473886	214240	0	6	Black soil & clay. Stopped because of basalt chips	44.4	15.4	14.6			
B13 457888	214241	0	6	Red brown soil & clay.	50.2	18.2	16.9			
	242	6	12	Light brown sandy material.	87.8	7.7	3.2			
	243	12	15	ditto	84.3	8.4	3.9			
	244	15	21	grey brown then light brown sandy material.	71.7	12.7	8.2			
	245	21	27	light brown sandy material.	44.5	16.4	13.9			
	214246	27	30	ditto	45.7	20.7	17.7			
B14 455890	214247	0	6	Brown & grey-green clays.	48.6	20.6	16.3			
	248	6	12	Grey-green clays.	49.8	16.0	14.4			
	249	12	18	ditto, basalt beginning	43.7	16.1	14.1			

REMARKS:-

AUGER DRILL LOG & ASSAY SHEET

Sheet 5

LOCALITY *Sevenport EL 36/70*

SAMPLE DISPATCHED.....

CO-ORDINATES.....

D.P.O. No. *13562*DATE DRILLED *5.5.71*ANALYSED BY *Z.C.*

HOLE No.	SAMPLE NUMBER	FROM	TO	DESCRIPTION	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	LOI	AI
B15	214250	0	6	Light brown clay	54.4	14.3	12.9			
453891	251	6	12	Light grey-green clay.	44.0	16.0	15.8			
	214252	12	18	Light khaki coloured clay.	41.7	17.0	15.9			
	214253	18	24	ditto	39.7	16.3	15.3			
B16	214254	0	6	Light brown clay.	46.3	18.2	15.2			
452887	255	6	12	Light brown yellow clay with very weathered basalt.	42.0	20.5	16.0			
	214256	12	17	ditto. Stopped by basalt.	41.8	20.1	16.4			
B17	214257	0	6	Red-brown clay.	43.5	18.1	21.0			
453885	258	6	12	light red red clay grading into dark sand clay.	53.9	19.5	12.3			
	259	12	18	Orange clay.	45.7	16.0	24.8			
	260	18	24	ditto, slightly paler	54.6	18.0	13.6			

REMARKS:-

AUGER DRILL LOG & ASSAY SHEET

Sheet 6.

LOCALITY Devonport EL 36/70.
 CO-ORDINATES.....
 DATE DRILLED 5.5.71.....

SAMPLE DISPATCHED.....
 D.P.O.No. 13562.....
 ANALYSED BY ZC.....

HOLE No.	SAMPLE NUMBER	FROM	TO	DESCRIPTION	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	LOI	AI
B18 457887	214261	0	5	Red clayey soil Abandoned at 5ft because of fresh basalt	41.1	17.7	24.9			
B19 462890	214262	0	4	Red clayey soil Abandoned at 5 ft because of fresh basalt.	34.9	30.3	16.6			
B20 458889	214263	0	6	Red clay with traces of ferruginous basalt.	11.9	39.4	22.6			
	264	6	12	Red clay.	3.7	38.4	30.2			
	265	12	18	Red brown clay.	16.9	31.9	28.5			
	266	18	24	Red clay with with green clay nodules	23.1	29.0	27.3			
	267	24	30	ditto	27.2	30.3	23.3			
	268	30	36	ditto	27.1	28.3	24.3			
	269	36	42	ditto	26.8	27.1	25.8			
	270	42	48	ditto	28.1	26.7	25.8			

6-5-71

REMARKS:-

AUGER DRILL LOG & ASSAY SHEET

Sheet 7

010

LOCALITY *Devonport EL36/70*
 CO-ORDINATES.....
 DATE DRILLED *6.5.71*

SAMPLE DISPATCHED.....
 D.P.O. No. *13562*
 ANALYSED BY *P.C.*

HOLE No.	SAMPLE NUMBER	FROM	TO	DESCRIPTION	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	LOI	AI
B21	214271	0	6	Red clay	36.2	21.7	21.7			
458890	272	6	9	ditto. Abandoned due to fresh basalt.	31.3	24.9	22.7			
B22	214273	0	6	Dark grey - brown clay	80.0	7.3	7.4			
451897	274	6	12	Yellow brown clay	65.8	15.2	9.3			
	275	12	18	ditto	62.8	15.6	10.2			
	276	18	24	ditto	74.6	11.5	5.9			
	277	24	30	ditto	60.3	16.5	10.6			
B23	214278	0	6	Light grey, brown very weathered basalt.	47.0	16.3	12.6			
450898	279	6	12	ditto. Abandoned due to fresh basalt.	47.0	15.2	11.4			
B24	214280	0	6	Grey clay	61.5	11.5	15.1			
448902	281	6	12	light brown, yellow & red clay.	89.6	11.8	8.9			
	282	12	15	yellow clay & then grey weathered basalt.	72.1	13.0	5.1			

REMARKS:-

AUGER DRILL LOG & ASSAY SHEET

Sheet 8

011

LOCALITY... Devonport EL 36/70

SAMPLE DISPATCHED.....

CO-ORDINATES.....

D.P.O. No. 13563

DATE DRILLED... 6.5.71

ANALYSED BY... ZC

HOLE No.	SAMPLE NUMBER	FROM	TO	DESCRIPTION	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	LOI	AI
B25	214283	0	6	Red sandy material	46.1	20.6	18.7			
447899	284	6	12	Orange red clay	34.1	31.2	17.9			
	285	12	18	Orange clay	28.9	33.5	18.7			
	214286	18	24	ditto. Stopped by basalt chips	25.3	35.0	19.4			
B26	214287	0	6	Yellow clay	50.6	23.3	11.4			
448897	288	6	12	ditto	49.4	23.3	11.0			
	289	12	14	greyish clay	47.6	19.3	14.2			
				Stopped by basalt						
B27	214290	0	6	Light yellow brown clay	43.3	18.7	17.7			
449894	291	6	8	ditto stopped by basalt	45.0	17.8	16.2			
B28	214292	0	6	Red clay	41.4	26.7	17.3			
454893	293	6	12	ditto	41.9	25.9	18.2			
	294	12	18	ditto	42.1	25.3	18.1			
	295	18	24	orange brown clay	42.5	24.9	17.9			
	214296	24	30	orange brown mud	43.3	24.9	17.3			

REMARKS:-

AUGER DRILL LOG & ASSAY SHEET

LOCALITY... *Barroisart EL 36/70*

SAMPLE DISPATCHED.....

CO-ORDINATES.....

D.P.O. No. *13563*

DATE DRILLED... *7.5.71*

ANALYSED BY... *Z.C.*

HOLE No.	SAMPLE NUMBER	FROM	TO	DESCRIPTION	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	LOI	AI
B29	214297	0	6	Yellow brown clay	39.4	21.4	18.8			
452891	298	6	12	Grey clay	63.4	18.9	16.7			
	299	12	18	ditto	43.7	18.2	16.4			
B30	214300	0	6	Yellow-orange clay	42.1	16.4	19.6			
449891	301	6	12	ditto	44.0	15.7	16.4			
	302	12	18	Light brown clay with weathered basalt.	44.9	15.0	14.9			
B31	214303	0	6	grey brown very weathered basalt.	46.5	15.2	13.2			
446894	304	6	12	yellow brown weathered basalt.	46.0	13.9	12.8			
B32	214305	0	6	grey brown weathered basalt.	44.9	15.3	13.6			
445892	214306	6	9	as above, stopped by fresh basalt	45.0	14.6	13.4			
B33	214307	0	6	Yellow clay	77.2	11.5	5.2			
441895	308	6	12	yellow sandy clay	74.0	13.5	5.7			
	309	12	18	ditto	67.2	16.3	7.6			
	310	18	24	Red grey & yellow clay. Hole abandoned due to hard rock	68.1	15.7	7.5			

REMARKS:-

AUGER DRILL LOG & ASSAY SHEET

013

LOCALITY... *Revenyork EL 36/70*

SAMPLE DISPATCHED.....

CO-ORDINATES.....

D.P.O. No. *13563*

DATE DRILLED... *7.5.71*

ANALYSED BY... *ZC*

HOLE No.	SAMPLE NUMBER	FROM	TO	DESCRIPTION	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	LOI	AI
<i>B34</i>	<i>214311</i>	<i>0</i>	<i>6</i>	<i>Red brown clay.</i>	<i>39.2</i>	<i>19.5</i>	<i>20.4</i>			
<i>443895</i>				<i>Hole abandoned for basket cobbles</i>						
<i>B35</i>	<i>214312</i>	<i>0</i>	<i>3</i>	<i>red brown soil.</i>	<i>46.9</i>	<i>16.0</i>	<i>18.7</i>			
<i>445898</i>				<i>Hole abandoned due to hard rock</i>						
<i>B36</i>	<i>214313</i>	<i>0</i>	<i>6</i>	<i>Red brown sandy clay.</i>	<i>68.5</i>	<i>12.7</i>	<i>9.9</i>			
<i>442901</i>				<i>Hole abandoned due to hard rock</i>						
<i>B37</i>	<i>214314</i>	<i>0</i>	<i>6</i>	<i>Light red-brown clay.</i>	<i>41.2</i>	<i>23.3</i>	<i>17.7</i>			
<i>440898</i>	<i>214315</i>	<i>6</i>	<i>12</i>	<i>Yellow clay. Hole abandoned due to hard rock</i>	<i>49.8</i>	<i>18.1</i>	<i>15.5</i>			
<i>B38</i>	<i>214316</i>	<i>0</i>	<i>6</i>	<i>Orange red sandy clay.</i>	<i>71.9</i>	<i>12.1</i>	<i>9.8</i>			
<i>439902</i>	<i>317</i>	<i>6</i>	<i>12</i>	<i>Yellow sandy clay.</i>	<i>77.5</i>	<i>12.5</i>	<i>4.9</i>			
	<i>318</i>	<i>12</i>	<i>18</i>	<i>ditto</i>	<i>85.4</i>	<i>9.1</i>	<i>3.7</i>			
	<i>214319</i>	<i>18</i>	<i>24</i>	<i>ditto</i>	<i>85.1</i>	<i>8.8</i>	<i>3.6</i>			

REMARKS:-

AUGER DRILL LOG & ASSAY SHEET

014

LOCALITY *Abouyant EL 36/70*

SAMPLE DISPATCHED.....

CO-ORDINATES.....

D.P.O. No. *13563 including B39 then 13561*

DATE DRILLED *7.5.71*

ANALYSED BY *ZC*

571

HOLE No.	SAMPLE NUMBER	FROM	TO	DESCRIPTION	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	LOI	AI
<i>B39</i>	<i>214320</i>	<i>0</i>	<i>3</i>	<i>Red brown soil</i>	<i>39.4</i>	<i>23.5</i>	<i>18.4</i>			
<i>441903</i>				<i>Abandoned due to hard rock.</i>						
<i>B40</i>	<i>214321</i>	<i>0</i>	<i>6</i>	<i>Red-brown clay</i>	<i>36.7</i>	<i>21.6</i>	<i>21.0</i>			
<i>444915</i>	<i>322</i>	<i>6</i>	<i>12</i>	<i>ditto</i>	<i>32.2</i>	<i>21.8</i>	<i>22.5</i>			
	<i>323</i>	<i>12</i>	<i>18</i>	<i>grey-brown clay.</i>	<i>32.4</i>	<i>21.2</i>	<i>21.4</i>			
	<i>324</i>	<i>18</i>	<i>24</i>	<i>ditto</i>	<i>34.7</i>	<i>21.0</i>	<i>21.6</i>			
	<i>214325</i>	<i>24</i>	<i>29</i>	<i>brown clay</i>	<i>34.0</i>	<i>21.9</i>	<i>20.7</i>			
<i>B41</i>	<i>214326</i>	<i>0</i>	<i>6</i>	<i>Red brown sandy clay.</i>	<i>32.8</i>	<i>23.6</i>	<i>22.2</i>			
<i>444917</i>										
	<i>327</i>	<i>6</i>	<i>12</i>	<i>ditto</i>	<i>33.4</i>	<i>24.1</i>	<i>22.5</i>			
	<i>328</i>	<i>12</i>	<i>18</i>	<i>ditto</i>	<i>33.7</i>	<i>24.3</i>	<i>22.1</i>			
	<i>329</i>	<i>18</i>	<i>24</i>	<i>Orange brown with some white clay.</i>	<i>31.0</i>	<i>24.2</i>	<i>21.7</i>			
	<i>330</i>	<i>24</i>	<i>30</i>	<i>Light brown sandy clay</i>	<i>29.4</i>	<i>24.4</i>	<i>22.1</i>			
	<i>331</i>	<i>30</i>	<i>35</i>	<i>ditto</i>	<i>28.8</i>	<i>24.1</i>	<i>22.3</i>			
<i>B42</i>	<i>214332</i>	<i>0</i>	<i>6</i>	<i>Light brown sandy clay</i>	<i>35.1</i>	<i>24.8</i>	<i>20.9</i>			
<i>445916</i>										
	<i>333</i>	<i>6</i>	<i>12</i>	<i>ditto</i>	<i>30.9</i>	<i>24.7</i>	<i>22.3</i>			
	<i>334</i>	<i>12</i>	<i>18</i>	<i>grey clay.</i>	<i>29.9</i>	<i>20.4</i>	<i>20.6</i>			
	<i>335</i>	<i>18</i>	<i>23</i>	<i>ditto</i>	<i>33.8</i>	<i>22.1</i>	<i>21.5</i>			

REMARKS:-

867016

Sheet 12.

AUGER DRILL LOG & ASSAY SHEET

515

LOCALITY Devonport EL 36/70

SAMPLE DISPATCHED.....

CO-ORDINATES.....

D.P.O. No. 13564 include B63 then 13565

DATE DRILLED 8.5.71

ANALYSED BY ZC

HOLE No.	SAMPLE NUMBER	FROM	TO	DESCRIPTION	S ₁ O ₂	Al ₂ O ₃	Fe ₂ O ₃	T ₁ O ₂	LOI	AI
B43. 445915	214336	0	6	Dark red sandy clay.	33.7	19.5	25.8			
	337	6	12	Red orange sandy clay.	31.1	23.0	25.0			
	338	12	18	Ditto Stopped by hard rock	31.4	22.7	24.0			
B44 447914	214339	0	6	grey-brown sandy clay. brown sandy clay	38.0	17.0	27.2			
	340	6	12	then yellow brown clay.	42.1	21.3	19.6			
	341	12	18	yellow brown sandy clay.	44.4	24.2	15.8			
	342	18	24	Ditto	44.2	23.7	15.6			
	343	24	29	Ditto	46.6	22.8	13.7			
B45 451912	214344	0	6	Orange with a little grey sandy clay.	71.3	12.1	8.8			
	345	6	12	red orange sandy clay with small quartz pebbles.	86.4	6.3	5.5			
	346	12	17	Ditto	79.8	9.3	6.8			
	347	17	19	Orange + grey clay stopped by hard rock	71.0	15.2	5.9			

REMARKS:-

AUGER DRILL LOG & ASSAY SHEET

LOCALITY... *Levenport EL 36/70*

SAMPLE DISPATCHED.....

CO-ORDINATES.....

D.P.O.No. *13565*

DATE DRILLED... *8.5.71*

ANALYSED BY *ZC*

HOLE No.	SAMPLE NUMBER	FROM	TO	DESCRIPTION	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	LOI	AI
<i>B46</i>	<i>214348</i>	<i>0</i>	<i>6</i>	<i>grey soil on top then</i>	<i>48.4</i>	<i>20.8</i>	<i>16.8</i>			
<i>447913</i>				<i>red sandy clay.</i>						
	<i>349</i>	<i>6</i>	<i>12</i>	<i>light red sandy</i>	<i>39.9</i>	<i>28.4</i>	<i>16.2</i>			
				<i>clay.</i>						
	<i>350</i>	<i>12</i>	<i>18</i>	<i>light red - brown</i>	<i>42.0</i>	<i>26.4</i>	<i>15.4</i>			
				<i>sandy clay.</i>						
	<i>214351</i>	<i>18</i>	<i>20</i>	<i>brown sandy clay</i>	<i>42.5</i>	<i>26.8</i>	<i>14.8</i>			
				<i>Stopped due to hard rock</i>						
<i>B47</i>	<i>214352</i>	<i>0</i>	<i>6</i>	<i>brown sandy clay.</i>	<i>52.0</i>	<i>14.6</i>	<i>18.7</i>			
<i>446917</i>	<i>353</i>	<i>6</i>	<i>12</i>	<i>yellow brown</i>	<i>46.4</i>	<i>16.8</i>	<i>21.0</i>			
				<i>sandy clay.</i>						
	<i>354</i>	<i>12</i>	<i>18</i>	<i>brown sandy clay</i>	<i>37.0</i>	<i>23.5</i>	<i>21.1</i>			
	<i>214355</i>	<i>18</i>	<i>23</i>	<i>ditto</i>	<i>38.8</i>	<i>22.8</i>	<i>19.9</i>			
<i>B48</i>	<i>214356</i>	<i>0</i>	<i>6</i>	<i>Dark brown</i>	<i>33.7</i>	<i>22.4</i>	<i>22.1</i>			
<i>447918</i>				<i>sandy clay.</i>						
	<i>357</i>	<i>6</i>	<i>12</i>	<i>red orange</i>	<i>33.2</i>	<i>25.2</i>	<i>21.6</i>			
				<i>sandy clay.</i>						
	<i>358</i>	<i>12</i>	<i>18</i>	<i>ditto</i>	<i>33.6</i>	<i>24.5</i>	<i>22.3</i>			
	<i>359</i>	<i>18</i>	<i>24</i>	<i>red brown sandy</i>	<i>33.6</i>	<i>23.7</i>	<i>22.2</i>			
				<i>clay.</i>						
	<i>360</i>	<i>24</i>	<i>30</i>	<i>ditto</i>	<i>33.4</i>	<i>24.2</i>	<i>22.9</i>			
	<i>361</i>	<i>30</i>	<i>35</i>	<i>yellow brown mud.</i>	<i>34.8</i>	<i>22.6</i>	<i>22.5</i>			
				<i>Drilling stopped</i>						
				<i>little return.</i>						

REMARKS:-

AUGER DRILL LOG & ASSAY SHEET

LOCALITY... *Levonsport EL 36/70*

SAMPLE DISPATCHED.....

CO-ORDINATES.....

D.P.O. No. *13566*

DATE DRILLED... *9.5.71*

ANALYSED BY... *ZC*

HOLE No.	SAMPLE NUMBER	FROM	TO	DESCRIPTION	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	LOI	AI
<i>B49</i>	<i>214362</i>	<i>0</i>	<i>6</i>	<i>red-brown sandy clay.</i>	<i>38.4</i>	<i>22.8</i>	<i>19.6</i>			
<i>449918</i>	<i>363</i>	<i>6</i>	<i>12</i>	<i>ditto.</i>	<i>32.0</i>	<i>25.4</i>	<i>23.8</i>			
	<i>364</i>	<i>12</i>	<i>18</i>	<i>ditto</i>	<i>73.4</i>	<i>12.4</i>	<i>7.6</i>			
	<i>365</i>	<i>18</i>	<i>26</i>	<i>reddish then yellow sandy clay.</i>	<i>71.0</i>	<i>13.2</i>	<i>8.4</i>			
	<i>366</i>	<i>24</i>	<i>30</i>	<i>yellow sandy clay.</i>	<i>73.6</i>	<i>13.0</i>	<i>6.1</i>			
	<i>367</i>	<i>30</i>	<i>35</i>	<i>ditto</i>	<i>82.7</i>	<i>9.1</i>	<i>4.0</i>			
<i>B50</i>	<i>214368</i>	<i>0</i>	<i>6</i>	<i>grey-brown sand + yellow sandy clay.</i>	<i>86.0</i>	<i>6.9</i>	<i>4.6</i>			
<i>650920</i>	<i>369</i>	<i>6</i>	<i>12</i>	<i>yellow sandy clay.</i>	<i>82.0</i>	<i>8.5</i>	<i>6.2</i>			
	<i>370</i>	<i>12</i>	<i>18</i>	<i>ditto</i>	<i>82.8</i>	<i>7.4</i>	<i>6.9</i>			
	<i>371</i>	<i>18</i>	<i>24</i>	<i>ditto</i>	<i>75.9</i>	<i>11.3</i>	<i>7.4</i>			
	<i>372</i>	<i>24</i>	<i>30</i>	<i>ditto</i>	<i>79.1</i>	<i>8.7</i>	<i>8.0</i>			
	<i>373</i>	<i>30</i>	<i>35</i>	<i>ditto</i>	<i>82.3</i>	<i>8.5</i>	<i>6.9</i>			
<i>B51</i>	<i>214374</i>	<i>0</i>	<i>6</i>	<i>red sandy clay.</i>	<i>39.8</i>	<i>23.4</i>	<i>20.1</i>			
<i>446919</i>	<i>375</i>	<i>6</i>	<i>12</i>	<i>ditto</i>	<i>30.5</i>	<i>25.1</i>	<i>24.7</i>			
	<i>376</i>	<i>12</i>	<i>18</i>	<i>red brown sandy clay.</i>	<i>30.5</i>	<i>24.5</i>	<i>25.0</i>			
	<i>377</i>	<i>18</i>	<i>24</i>	<i>yellow brown sandy clay.</i>	<i>31.6</i>	<i>24.2</i>	<i>26.4</i>			
	<i>214378</i>	<i>24</i>	<i>28</i>	<i>ditto</i>	<i>34.7</i>	<i>23.7</i>	<i>21.8</i>			

REMARKS:-

Blank lines for remarks.

AUGER DRILL LOG & ASSAY SHEET

018

LOCALITY *Levonport EL 36/70*

CO-ORDINATES.....

DATE DRILLED *9.5.71*

SAMPLE DISPATCHED.....

D.P.O. No *13566* *including B52 then 13567*

ANALYSED BY *ZC*

HOLE No.	SAMPLE NUMBER	FROM	TO	DESCRIPTION	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	LOI	AI
B52	214379	0	6	Brown silt +	44.6	16.3	21.4			
	445022			fine clay						
	380	6	12	yellow sandy clay	40.6	21.0	20.7			
	381	12	18	yellow mud.	42.0	20.6	18.6			
				Stopped due to hard rock						
B53	214382	0	6	red-brown sandy clay	56.7	14.2	15.0			
	447922									
	383	6	12	red pink clay	43.1	24.0	16.5			
	384	12	18	pink + grey clay	41.2	28.0	13.4			
	385	18	24	pink clay	38.1	25.4	17.9			
	386	24	30	orange clay	35.1	22.1	25.1			
	387	30	36	yellow orange clay	35.6	21.4	25.3			
	388	36	42	ditto	36.3	20.2	25.9			
	389	42	47	ditto	38.8	20.3	23.1			
B54	214390	0	6	red brown sandy clay	47.9	17.5	18.9			
	449022									
	391	6	12	red clay	46.2	17.7	19.5			
	392	12	18	ditto	35.6	24.3	22.2			
	393	18	24	ditto	34.0	24.9	22.2			
				Hole abandoned due to hard rock						

REMARKS:-

AUGER DRILL LOG & ASSAY SHEET

018

LOCALITY *Devonport EL3670*

SAMPLE DISPATCHED.....

CO-ORDINATES.....

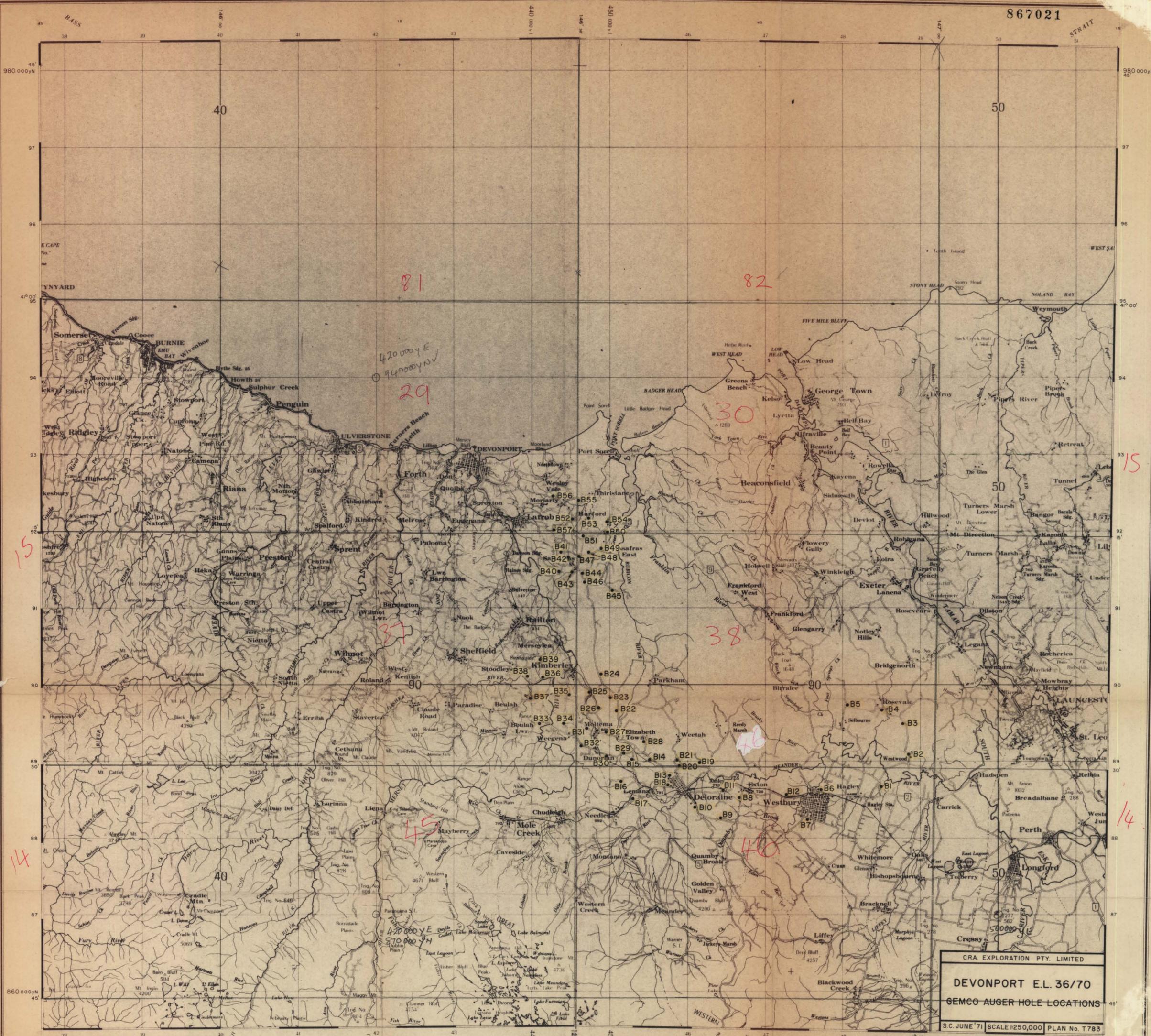
D.P.O. No. *13567*

DATE DRILLED *9.5.71*

ANALYSED BY *ZC*

HOLE No.	SAMPLE NUMBER	FROM	TO	DESCRIPTION	S ₂ O ₂	Al ₂ O ₃	Fe ₂ O ₃	T ₁ O ₂	LOI	AI
B55	214394	0	4	red sandy clay	36.0	19.5	24.2			
	446924			Hole abandoned due to hard rock.						
B56	214395	0	6	red sandy clay	55.6	18.6	13.0			
	443923	396	6 12	ditto	82.1	8.6	6.0			
		397	12 18	orange red sandy clay	91.2	5.8	3.6			
		398	18 24	ditto	90.5	5.7	3.5			
	214399	24	30	ditto	91.8	5.3	3.8			
	214400	30	35	ditto	92.0	5.3	3.4			
B57	214401	0	6	Red brown sandy clay	66.0	14.3	11.1			
	443920									
		402	6 12	ditto	54.4	18.8	13.9			
		403	12 18	red with some white clay	76.2	11.2	7.3			
		404	18 24	red + yellow sandy clay	84.7	8.2	4.6			
		405	24 30	light red sandy clay	88.8	6.0	3.3			
		406	30 35	yellow brown sandy clay	92.8	4.4	2.4			

REMARKS:-



BASE MAP: From published BURNIE and LAUNCESTON 1:250,000
 Topographical map supplied by courtesy of the
 Tasmanian Lands and Surveys Department.

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DEVONPORT E.L. 36/70
 GEMCO AUGER HOLE LOCATIONS
 S.C. JUNE '71 SCALE 1:250,000 PLAN No. T783