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71-793.

V/S

835001

**MICROFILMED**

E.L. 44/70 TASMANIA

(A.R.A. DODSON)

DUMP SAMPLING RESULTS

R.E. Besley  
August, 1971

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### 1. Introduction

A dump sampling program was initiated in late 1970 and was carried out during the first half of 1971 in conjunction with evaluation of mineralization within the Exploration Licence.

The purpose of the program was to determine if sufficient tonnage and grade of material was available to contribute significantly to the economics of a possible milling operation in the area.

A total of 20 dumps have so far been surveyed and sampled of which 14 have the assays completed.

### 2. Sampling Procedure

The larger dumps that are easily accessible were selected for sampling and surveyed. The method of sampling varied according to the geometry of the dump but in general samples were taken on 20 ft. intervals around the edge of the dump and from at least 2 ft. depth. The sample weight was between 5 and 10 lb.

### 3. Results

The location of the dumps is shown on Plate 1. The sample positions and numbers are given on each individual plate for each dump. The complete assay results are given in Appendix I.

The 14 completed dumps have a total of 70,810 tons averaging 2.8 oz. Ag/ton, 1.4% Pb and 0.86% Zn. The averages are given in Table I. A total of 100,000 tons of material have been sampled.

The overall average grade is below the economic limit for milling operations. Individual dumps could be treated if a mill existed in the vicinity but the tonnages would be small.

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TABLE I. OVERALL AVERAGES

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DUMP NO.	TONNAGE (long tons)	ARITHMETIC AVERAGE			Ag x Tonnage	Pb x Tonnage	Zn x Tonnage
		Ag (oz/tn)	Pb%	Zn%			
1	6100	1.75	1.96	0.69	10700	1198	4210
2	3100	2.08	3.26	0.56	6460	10100	1740
3	1035	12.8	0.54	0.1	13250	559	104
4	7100	4.3	1.4	0.3	30500	9900	21300
5	1800	2.12	2.0	0.22	3820	3600	395
6	2800	1.06	1.05	1.57	2975	2942	4400
7	1720	0.93	1.57	0.72	1610	2700	1240
8	2900	3.72	1.52	0.57	10800	4410	1655
9	1500	5.55	3.94	0.44	8350	5900	660
10	1080	4.25	4.27	0.41	4600	4620	444
11	3000	2.6	1.81	0.18	7800	5430	540
	( 765	0.33	1.06	0.61	252	811	467
12	( 375	2.6	7.00	5.2	975	2620	1950
	( 2350	0.44	1.77	0.81	1033	4160	1910
	( 195	0.3	0.45	0.09	58	87	176
13	( 8100	1.3	1.53	0.4	10520	12380	3240
	( 555	0.4	1.07	0.4	222	593	222
	( 75	2.00	3.9	0.46	150	292	35
	( 1800	2.9	0.7	0.17	5220	1260	306
	( 6000	2.26	0.77	0.9	13560	4620	540
14	(18000	3.52	1.60	0.83	63360	28800	14900
	( 420	2.12	2.1	0.84	890	880	350
	( 45	5.08	4.26	0.76	280	190	34
	<u>70810</u>				<u>197365</u>	<u>99143</u>	<u>60818</u>

14 dumps contains 70,810 tons averaging: 2.79 oz. Ag/ton  
 1.4 % Pb  
 0.86 % Zn

TABLE II. DUMPS SAMPLED BUT NOT ASSAYED

003

DUMP NO.	VOLUME Cu. Yds.	TONNAGE
	( 220	330
	(	
	( 110	165
	(	
	( 40	60
	(	
15	( 20	30
	(	
	( 2100	3150
	(	
	( 780	1170
	(	
	( 4300	6500
	(	
	( 80	120
	(	
	( 2370	3550
	(	
	( 110	165
	(	
16	( 1900	2850
	(	
	( 90	135
	(	
	( 40	60
	(	
	( 40	60
	(	
	( 110	165
	(	
	( 1020	1530
	(	
17	( 1180	1770
	(	
	( 50	75
	(	
	( 35	52
18	4100	6150
19	Not Surveyed	
20	1300	1950
	<u>19995</u>	<u>30037</u>

TOTAL TONNAGE SAMPLED = 100,800

A P P E N D I X I

ASSAY RESULTS DUMP SAMPLING



NORMAN S. PIT. LTD. 18 COLUMN STACK DISSECTION BLOCK

006  
Simmie  
Ref. No.

DR. 0022	Ag. <sub>30/102</sub>	Sb. %	Zn. %	Pb. %
23	0.30	<0.03	0.011	0.26
24	1.00	<0.03	0.048	0.09
25	1.55	<0.03	0.031	0.35
26	6.25	<0.03	0.004	0.385
27	0.85	<0.03	0.014	0.33
28	0.85	<0.03	0.875	0.33
29	0.85	<0.03	0.033	0.385
30	0.30	<0.03	0.040	0.05
31	34.20	0.15	5.00	10.85
32	0.20	<0.03	0.030	0.155
33	<0.20	<0.03	0.030	0.14
34	3.45	<0.03	0.085	0.73
35	0.20	<0.03	0.415	0.25
36	N.D.	<0.03	0.019	0.09
37	<0.20	<0.03	0.014	0.40
38	<0.20	<0.03	0.029	0.16
39	2.70	<0.03	0.014	0.60
40	0.50	<0.03	0.010	0.16
41	0.50	<0.03	0.007	0.16
42	0.60	<0.03	0.005	0.05
43	2.10	<0.03	0.420	0.43
44	4.10	0.05	0.540	1.19
45	4.60	0.05	0.590	1.46
46	3.20	<0.03	0.660	1.10
47	6.65	0.05	0.980	2.24
48	4.50	0.03	1.40	1.96
49	6.00	0.05	1.12	2.50
50	6.00	0.05	1.05	2.63
51	4.40	0.03	0.890	1.67

ANALYSED BY W. L. GUYER  
THE CHEMICAL  
ANALYSIS DIVISION  
NORAN S. PIT. LTD.

*W.P.*  
2/11/70

007

NORMAN BROS. PTY. LTD. 18 COLUMN STOCK DISSECTION BLOCK

SAMPLE REF. No.	Hg. g/ton.	Sb. %	Zn. %	Pb. %
DR. 0061	1.10	<0.03	0.66	1.82
52	0.35	<0.03	0.19	0.62
53	0.50	<0.03	0.26	0.79
54	<0.20	<0.03	0.04	0.26
55	0.50	0.05	0.24	0.75
56	0.70	<0.03	0.37	0.99
57	0.35	<0.03	0.48	0.51
58	2.40	0.07	2.44	3.82
59	4.85	<0.03	0.45	1.90
60	0.85	<0.03	0.14	0.79
61	0.40	<0.03	0.06	0.45
62	1.00	<0.03	0.50	1.15
63	0.20	<0.03	0.08	0.33
64	2.60	<0.03	2.48	3.90
65	0.50	<0.03	1.09	0.46
66	1.65	<0.03	0.07	1.85
67	0.80	<0.03	1.40	0.99
68	4.85	<0.03	1.02	5.15
69	7.95	0.13	0.79	10.35
70	2.20	<0.03	1.30	3.35
71	0.85	<0.03	0.22	0.77
72	1.00	<0.03	0.18	1.65
73	5.00	0.15	2.34	5.50
74	<0.20	<0.03	0.04	0.15
75	0.85	<0.03	0.07	0.76
76	1.15	<0.03	0.31	0.76
77	0.85	0.06	0.19	1.25
78	1.00	0.34	0.24	1.58
79	6.25	0.06	2.06	5.78
80	0.55	0.06	0.23	0.84
81	2.60	0.11	1.11	3.09
82	1.95	0.03	0.03	1.38
83	4.85	<0.03	0.46	1.00
84	2.30	0.18	0.46	2.40
85	1.70	0.09	0.52	2.02
86	1.85	0.05	0.03	2.00
87	3.45	<0.03	0.09	3.65
88	1.40	<0.03	0.31	1.72
89	0.50	<0.03	0.29	1.35
90	0.60	<0.03	0.02	0.24
91	3.55	<del>&lt;0.03</del> 0.06	0.66	3.70
92	2.50	<0.03	0.47	2.82

WSD  
7/21/12



SAMPLE REF. No.	Hg <sub>org</sub> /100g	Sb. %	Zn. %	Pb. %	Cu. %
DF. 0134	4.12	0.05	0.03	0.40	<0.01
135	1.92	0.07	0.27	1.93	<0.01
136	2.05	0.04	0.12	2.27	<0.01
137	0.33	0.02	0.07	0.51	N.D.
138	N.D.	0.02	0.15	0.05	N.D.
139	0.23	0.01	0.05	0.33	<0.01
140	2.15	0.09	0.32	3.19	<0.01
141	1.82	0.03	0.27	2.51	0.02
142	8.25	0.08	0.27	6.80	0.02
143	0.99	0.07	0.05	1.36	<0.01
144	1.82	0.09	0.12	2.51	<0.01
145	1.82	0.05	0.35	2.12	0.02
146	12.90	0.44	8.60	18.60	0.065
147	0.50	0.04	1.35	0.64	<0.01
148	0.23	0.04	1.15	0.19	<0.01
149	T.	0.03	0.45	0.18	T
150	N.D.	0.03	0.25	0.11	T
151	1.11	0.065	1.48	1.10	0.02
152	T.	0.08	0.11	0.35	T
153	1.63	0.05	1.90	1.57	0.02
154	0.41	0.03	0.45	0.34	T
155	2.69	0.05	3.38	2.58	0.04
156	0.98	0.03	1.82	1.37	0.02
157	T.	T	0.03	T	T
158	3.10	0.61	4.22	3.17	0.05
159	T.	0.02	0.05	0.03	T
160	6.42	0.55	6.48	5.75	0.11
161	1.11	0.06	4.53	0.67	0.02
162	N.D.	0.02	0.05	0.02	0.01
163	1.11	0.03	0.41	0.28	T
164	T.	T.	0.03	0.03	T
165	5.09	0.14	4.22	6.77	0.05
166	1.11	0.02	0.74	1.35	0.02
167	2.82	0.12	4.00	4.19	0.07
168	N.D.	T.	0.02	0.03	T
169	2.69	0.01	0.13	6.35	T
170	N.D.	0.02	0.16	0.07	T
171	T.	T.	0.35	0.29	T

SAMPLE REF. No.	Hg. $\mu\text{g}/\text{kg}$	Sb. %	Zn. %	Pb. %	Cu. %
DR. 0172	0.49	0.02	0.16	0.33	T
173	0.49	0.02	0.14	0.40	T
174	0.78	0.02	0.31	1.07	0.01
175	0.98	0.05	1.04	1.95	0.02
176	4.72	0.14	0.75	3.50	0.02
177	5.50	0.20	0.07	0.90	0.05
178	4.01	0.07	0.26	3.26	T
179	T	0.01	0.01	0.04	T
180	1.63	0.17	0.03	1.95	0.01
181	2.45	0.06	0.26	1.57	0.02
182	0.25	0.02	1.26	0.23	0.02
183	0.25	0.03	0.03	0.07	T
184	1.79	0.05	0.01	0.45	0.02
185	13.15	0.24	0.04	2.45	0.06
186	0.90	0.06	0.05	0.82	0.01
187	0.75	0.04	0.04	0.75	T
188	0.75	0.03	0.26	0.06	T
189	15.58	0.38	5.40	6.95	0.05
190	24.15	0.37	29.50	15.30	0.28
191	3.58	1.78	12.35	6.60	0.06

Please Note: Samples no. DR. 0186 ; DR. 0165 ; DR. 0175 ;  
 DR. 0190 ; DR. 0191 . will be  
 analysed for Au, Sn, As at end of programme  
 unless otherwise advised .

*[Signature]* 27/1/71.



SAMPLE REF. NOS.	TYPE	DESCRIPTION.	Ag. %	Sb. %	Pb %	Zn. %	Cu. %
DR. 0223	GRAB	SAMPLES	0.33	0.02	0.40	2.35	0.01
0224	"	"	0.17	0.01	0.40	0.07	N.D.
0225	"	"	0.83	0.02	0.73	1.05	0.04
0226	"	"	0.17	0.02	0.75	0.60	0.02
0227	"	"	0.17	0.01	0.24	0.03	<0.01
0228	"	"	0.17	0.01	0.33	0.03	N.D.
0229	"	"	0.33	0.06	1.75	0.40	0.10
0230	"	"	0.66	0.09	3.05	0.30	0.12
0231	"	"	0.33	0.01	1.30	0.05	N.D.
0232	"	"	0.43	0.01	2.40	2.35	0.02
0233	"	"	1.06	0.03	4.30	2.05	0.08
0234	"	"	0.17	N.D.	0.88	0.10	<0.01
0235	"	"	0.17	0.01	0.02	0.05	0.08
0236	"	"	0.17	0.01	0.07	0.15	<0.01
0237	"	"	0.17	0.03	0.12	0.03	0.04
0238	"	"	0.50	0.02	2.75	1.65	0.02
0239	"	"	1.32	0.03	8.80	4.85	0.05
0240	"	"	1.06	0.30	2.20	0.32	0.35
0241	"	"	N.D.	0.01	0.25	0.58	0.01
0242	"	"	0.33	0.03	0.97	0.10	<0.01
0243	"	"	N.D.	N.D.	0.19	0.10	<0.01
0244	"	"	N.D.	N.D.	0.02	N.D.	<0.01
0245	"	"	0.17	0.01	0.64	0.15	0.02
0246	"	"	0.50	0.02	3.65	1.73	0.03
0247	"	"	0.50	0.02	2.68	0.23	0.01
0248	"	"	0.80	0.19	2.73	0.85	0.13
0249	"	"	0.43	0.02	2.02	0.10	0.01
0250	"	"	0.43	0.03	1.05	0.08	0.01
0251	"	"	0.50	0.03	2.65	1.03	0.03
0252	"	"	1.85	0.05	7.80	0.43	0.03
0253	"	"	0.17	0.03	0.37	0.08	0.01
0254	"	"	0.43	0.06	1.85	1.08	0.06
0255	"	"	0.50	0.03	2.32	0.04	<0.01
0256	"	"	2.97	0.24	8.00	9.25	0.35
0257	"	"	0.17	0.02	0.36	0.08	0.13
0258	"	"	0.38	0.08	1.70	0.10	0.03
0259	"	"	0.66	0.03	2.57	0.15	0.02
0260	"	"	0.33	0.03	1.20	0.03	0.01
0261	"	"	0.33	0.02	1.48	0.03	<0.01
0262	"	"	<0.25	0.02	0.05	0.01	<0.01
0263	"	"	0.17	0.02	0.06	0.03	<0.01
0264	"	"	N.D.	N.D.	0.03	0.03	<0.01
0265	"	"	0.50	0.03	1.55	6.65	0.03





015

ASSAY. REF. No.	TYPE / DESCRIPTION	Ag g/100g	Sb %	Pb. %	Zn %	Cu. %
D.A 0293	GRAB SAMPLE	1.87	0.03	1.17	1.31	0.02
0294	" "	3.14	0.04	1.93	1.38	0.04
0295	" "	2.81	0.02	1.62	0.90	0.02
0296	" "	3.30	0.03	1.35	1.58	0.04
0297	" "	0.50	0.03	0.37	0.25	<0.01
0298	" "	3.30	0.04	2.13	0.30	0.03
0299	" "	2.81	0.31	1.38	1.04	0.04
0300	" "	4.62	0.04	2.58	0.85	0.05
0301	" "	4.35	0.07	3.00	0.45	0.02
0302	" "	←	No	SAMPLE	RECEIVED.	→
0303	" "	3.79	0.05	2.22	0.65	0.02
0304	" "	3.63	0.04	1.28	2.55	0.03
0305	" "	3.14	0.04	1.60	2.18	0.04
0306	" "	3.96	0.05	1.56	1.28	0.04
0307	" "	4.40	0.04	2.92	1.58	0.05
0308	" "	4.29	0.05	2.00	1.45	0.05
0309	" "	3.22	0.07	2.05	0.70	0.02
0310	" "	3.14	0.04	1.53	1.07	0.04
0311	" "	1.03	0.03	0.67	0.08	<0.01
0312	" "	4.45	0.05	1.72	1.30	0.05
0313	" "	0.83	0.02	0.56	0.17	0.01
0314	" "	5.75	0.06	1.97	4.70	0.06
0315	" "	3.46	0.13	1.90	0.64	0.03
0316	" "	8.40	0.06	2.78	0.64	0.06
0317	" "	6.91	0.06	2.55	0.70	0.06
0318	" "	4.29	0.08	1.53	0.97	0.04
0319	" "	8.40	0.05	3.73	0.34	0.11
0320	" "	5.75	0.04	1.93	0.70	0.04
0321	" "	3.14	0.02	1.45	0.30	0.03
0322	" "	4.40	0.04	1.48	0.47	0.04
0323	" "	2.14	0.04	0.99	0.73	0.02
0324	" "	0.90	0.03	0.56	0.67	0.01
0325	" "	5.05	0.04	1.78	0.74	0.05
0326	" "	5.05	0.04	1.06	0.85	0.07
0327	" "	3.10	0.05	1.16	0.33	0.02
0328	" "	4.65	0.05	1.30	0.47	0.05
0329	" "	4.25	0.05	1.38	0.35	0.04
0330	" "	3.60	0.05	1.20	0.37	0.04
0331	" "	0.90	0.03	0.61	1.05	0.02
0332	" "	0.65	0.02	0.52	0.52	0.01
0333	" "	2.94	0.04	1.12	0.75	0.04
0334	" "	2.85	0.04	1.41	0.72	0.07





# NIKI SHAFT DUMPS

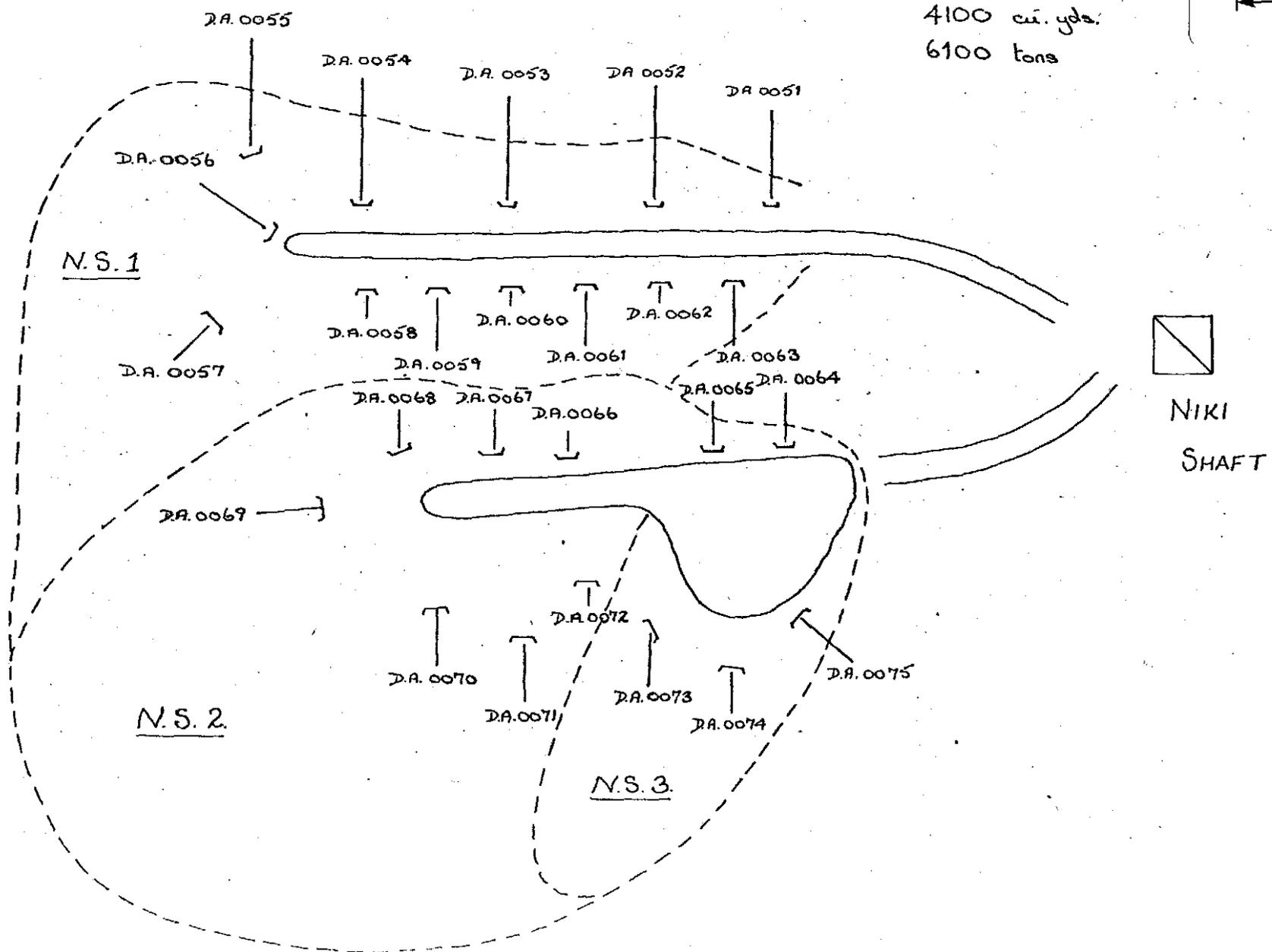
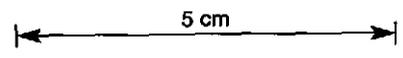
Figure 1

018



SCALE 1" = 20'

4100 cu. yds.  
6100 tons



835020

019

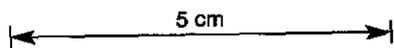
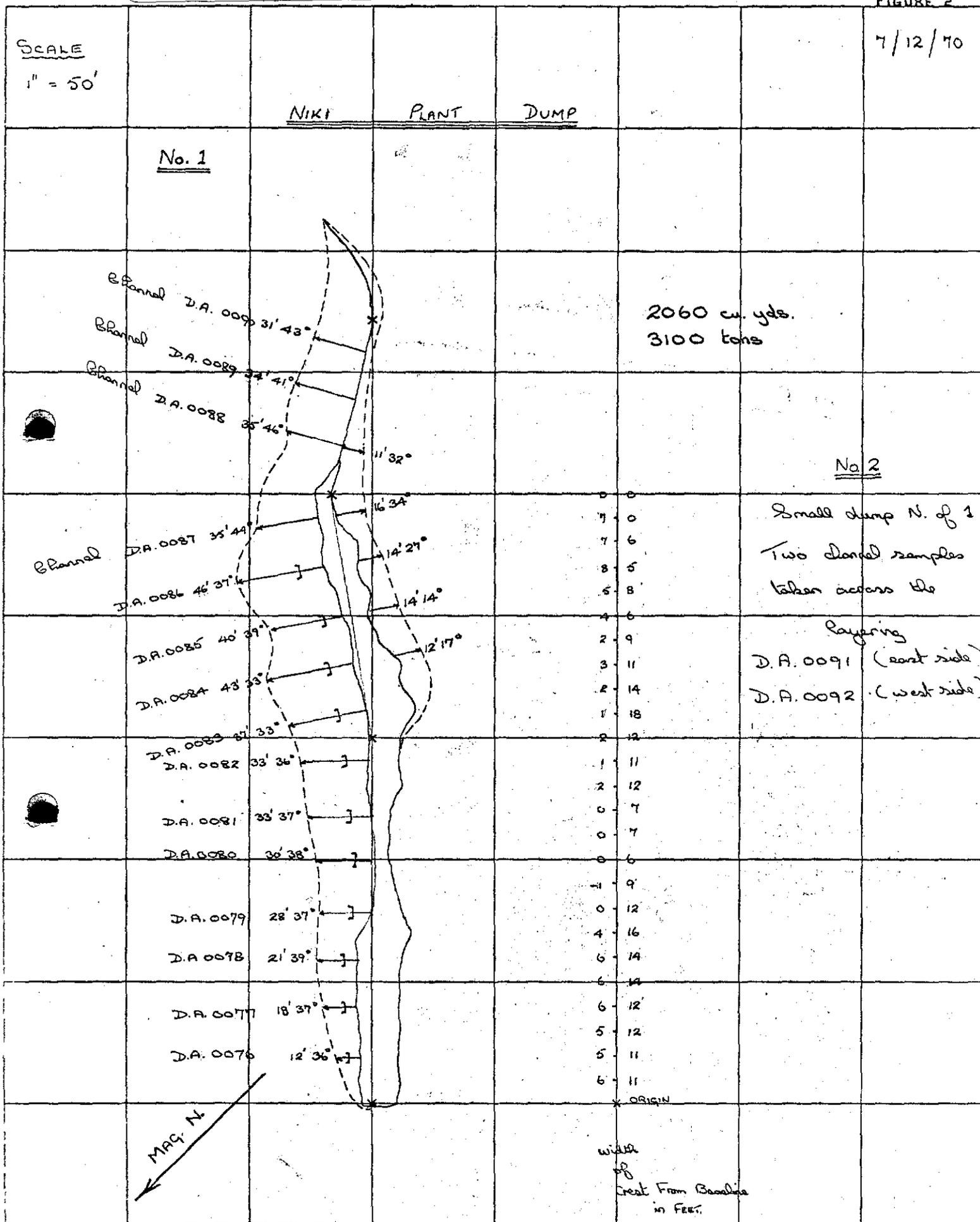


FIGURE 2



020

835022

5 cm

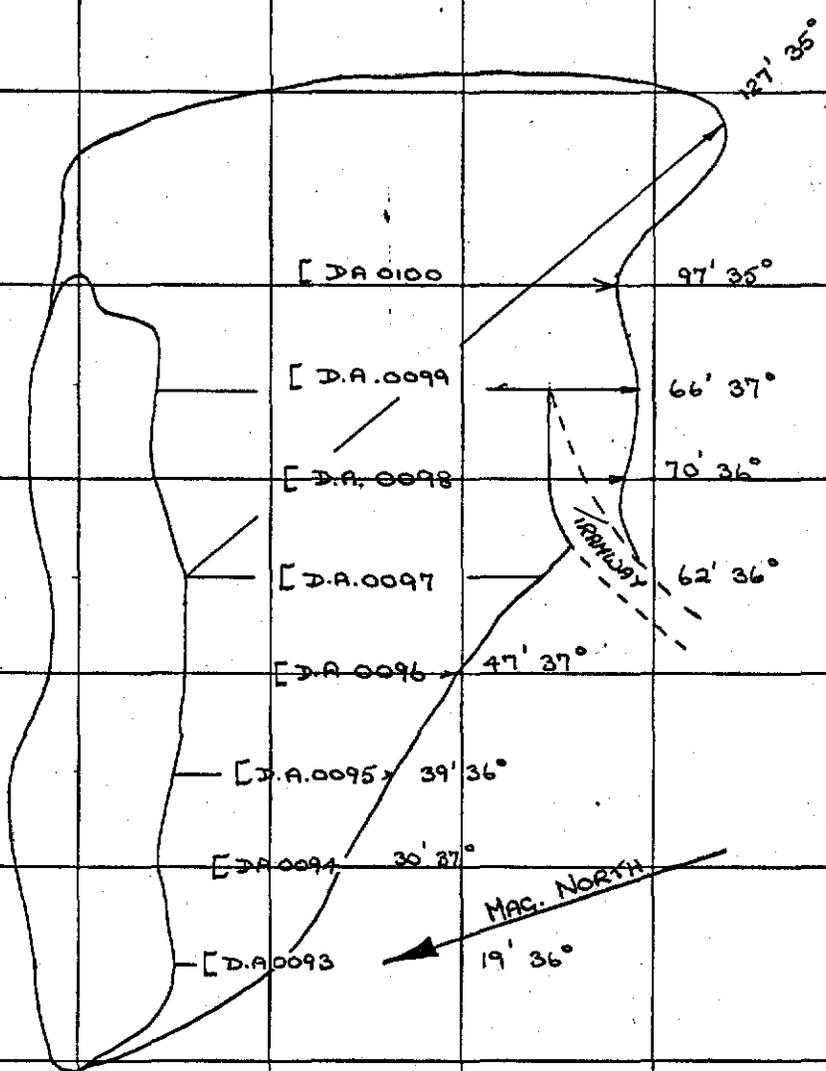
FIGURE 3

SCALE  
1" = 20'

31/12/70

NIKI AREA (TOP DUMP)

690 cu yds  
1035 tons



021

5 cm

FIGURE 4

SCALE  
1" = 50'

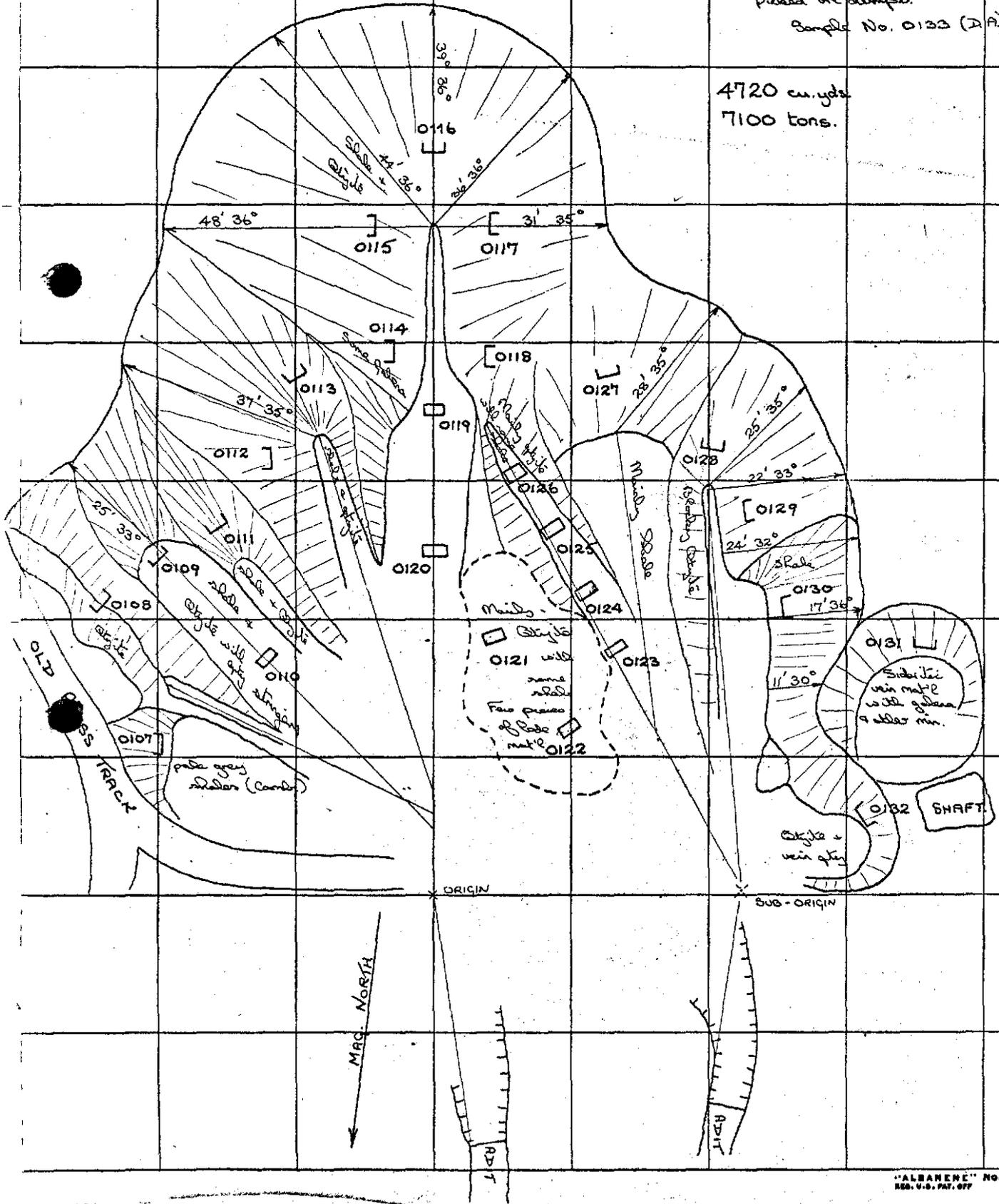
4/1/71

173°

LARGE DUMP (OLD ADIT) AT NIKI

Pitied sample of rock material from  
piled on dumps.  
Sample No. 0133 (D.A.)

4720 cu. yds.  
7100 tons.



022

835024

5 cm

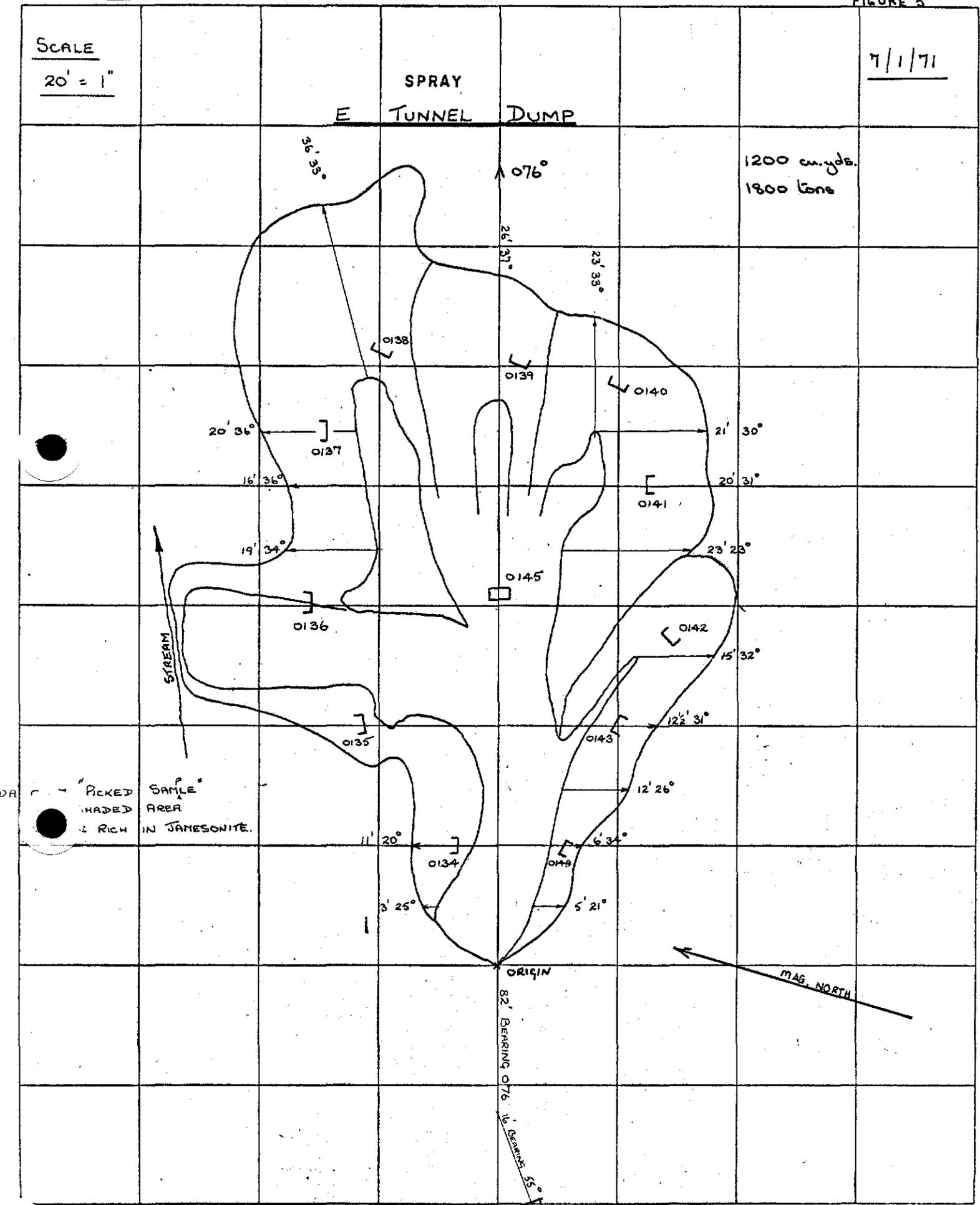
FIGURE 5

SCALE  
20' = 1"

7/1/71

SPRAY  
E TUNNEL DUMP

1200 cu yds.  
1800 tons



SCALE

1" = 20'

SPRAY

No. 1

SHAFT

(MAIN

DUMP)

8/1/71

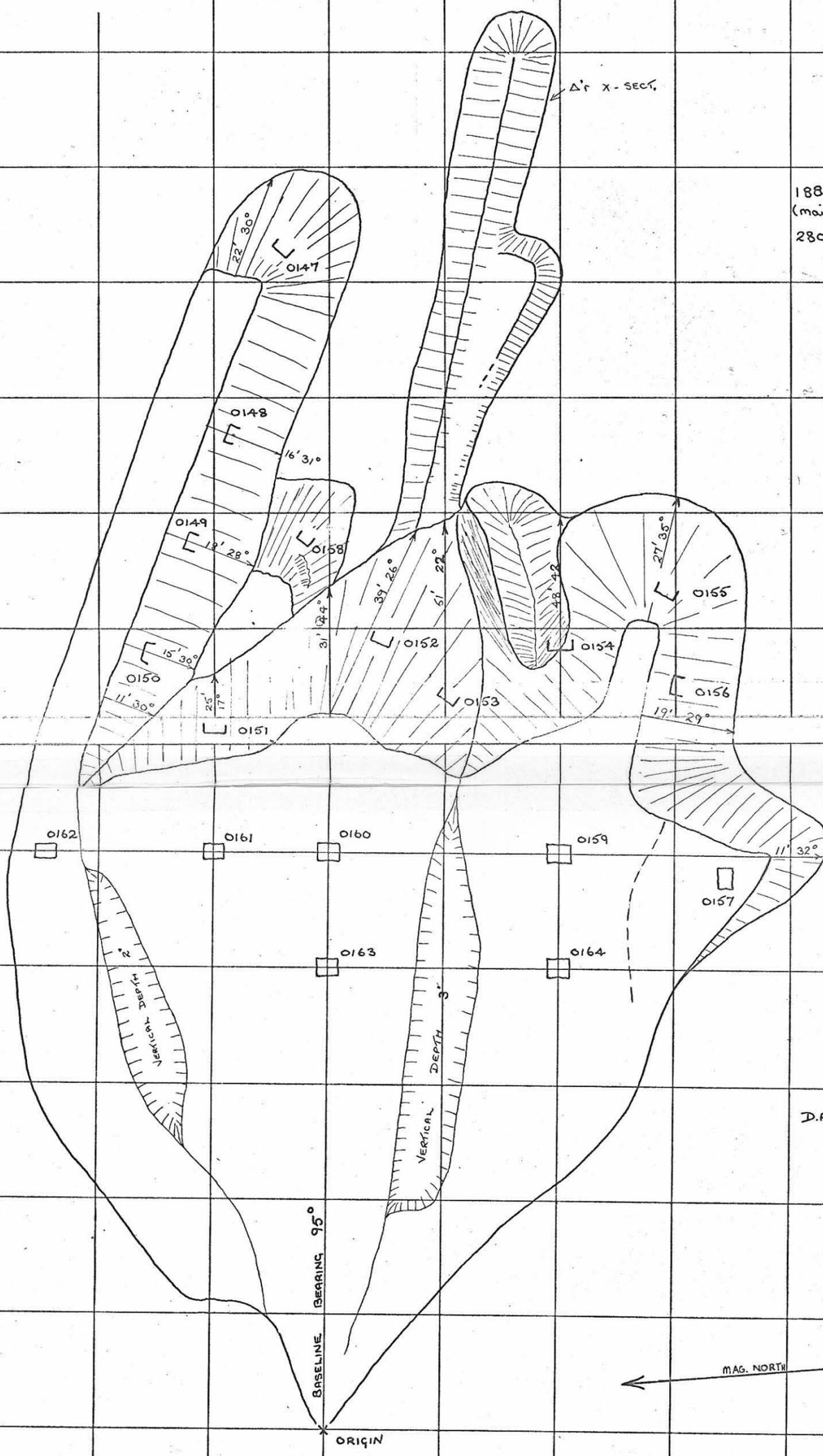
"ALBANY" No. 1988 K&E CO., N.Y.  
REG. U.S. PAT. OFF.

023

5 cm

1880 cu. yds.  
(mainly shaft muck)  
2300 tons

Δr X-SECT.



"ALBANY" No. 1988 K&E CO., N.Y.  
REG. U.S. PAT. OFF.

835025

SAMPLERS & SURVEYORS

B. HARDY  
L. CAIRNS

DRAWN UP BY

P. O'Connell

024

835026

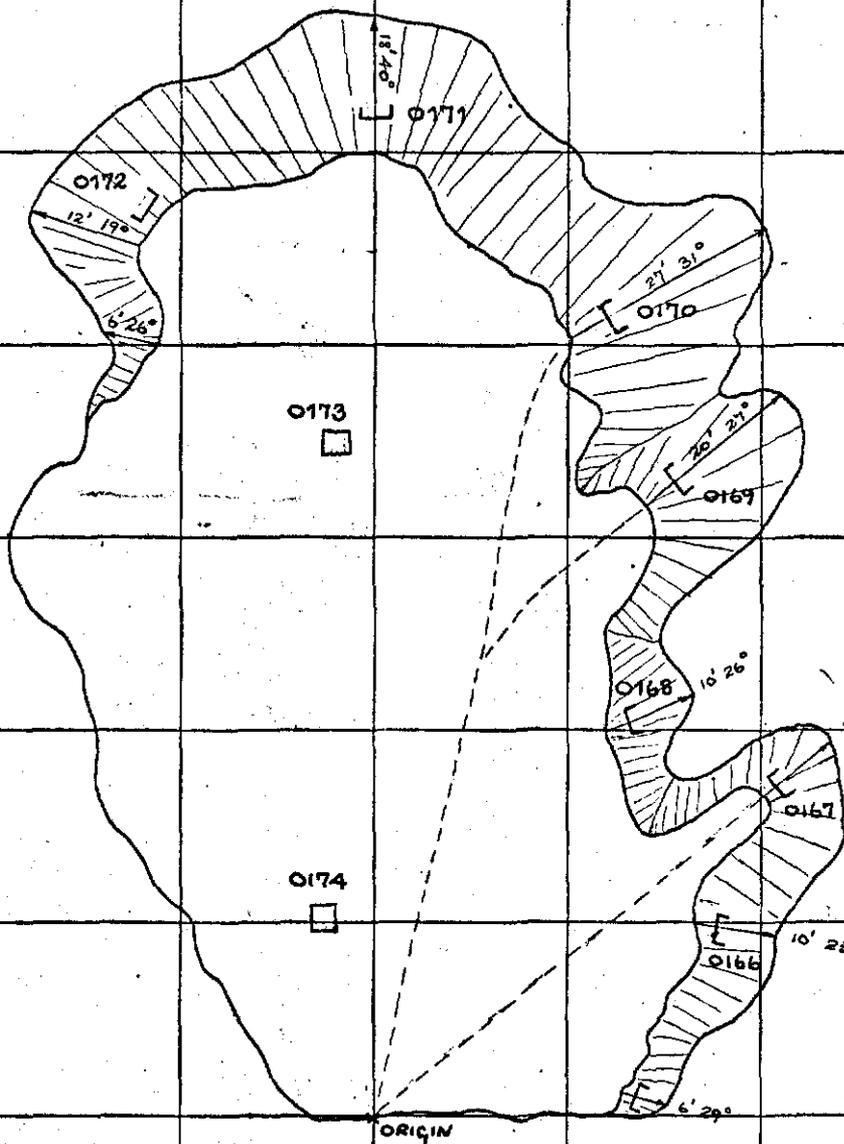
FIGURE 7

SCALE  
1" = 20'

9/1/71

SPRAY No. 1. SHAFT NORTH ADIT DUMP

1150 cu. yds.  
1720 tons



"PICKED SAMPLE"

D.A. 0175

ORIGIN

MAG. NORTH

⊕ SURVEY PEG

271° TO ADIT  
ADIT BEARING 271°, PORTAL 44.5' FROM PEG & 5.5' WIDE

"ALBANY" No. 1968 K&ECO. N.Y.  
REG. U.S. PAT. OFF

5 cm

SPRAY No 1 SHAFT SOUTH - WEST DUMP

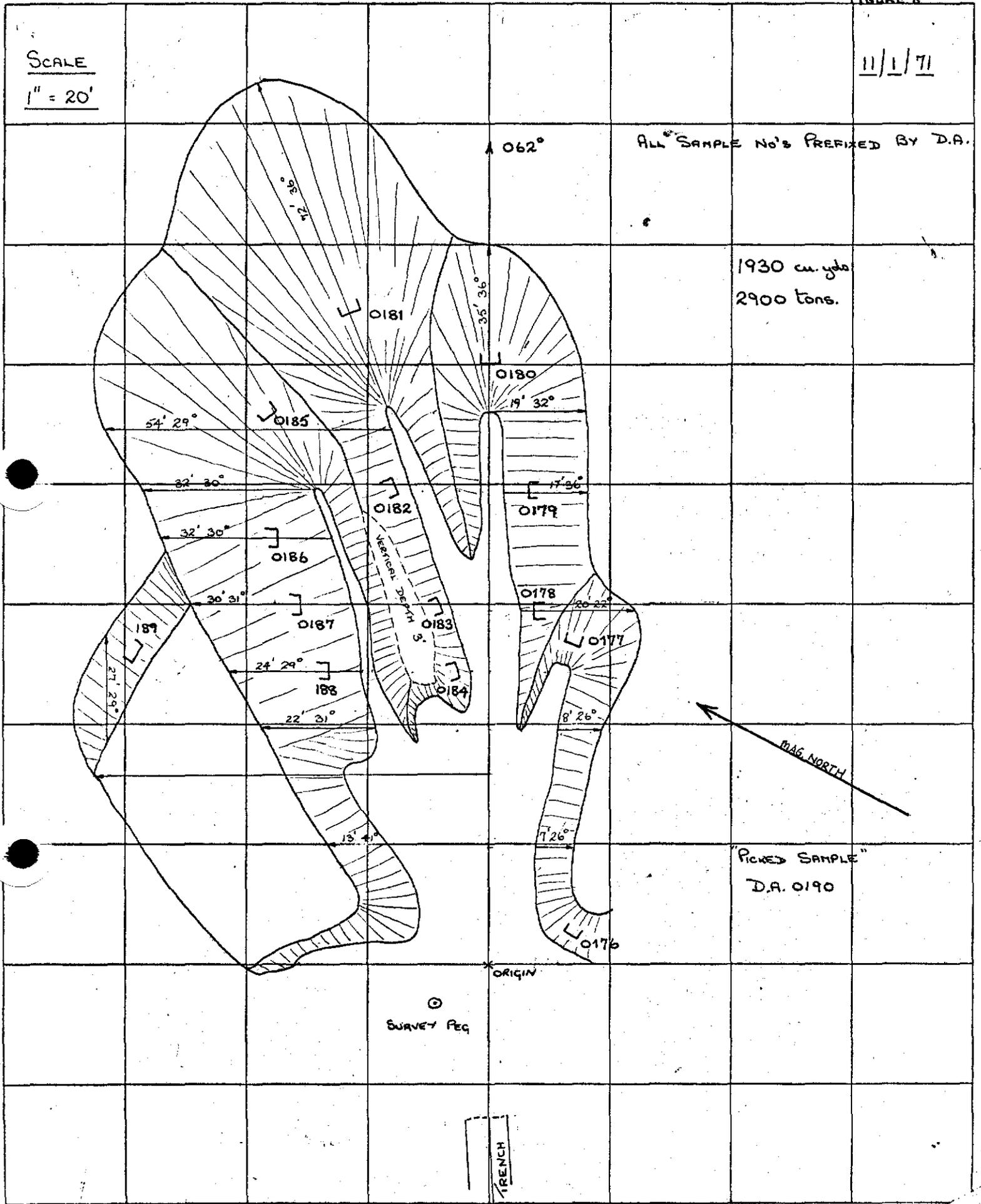
FIGURE 8

SCALE  
1" = 20'

11/1/71

ALL SAMPLE NO'S PREFIXED BY D.A.

1930 cu. yds  
2900 tons.



"ALBARENE" No. 185M K4CCO  
REG. U.S. PAT. OFF.

5 cm

Scale 1" = 20'

835028

Figure 3

SPRAY MINE DUMP

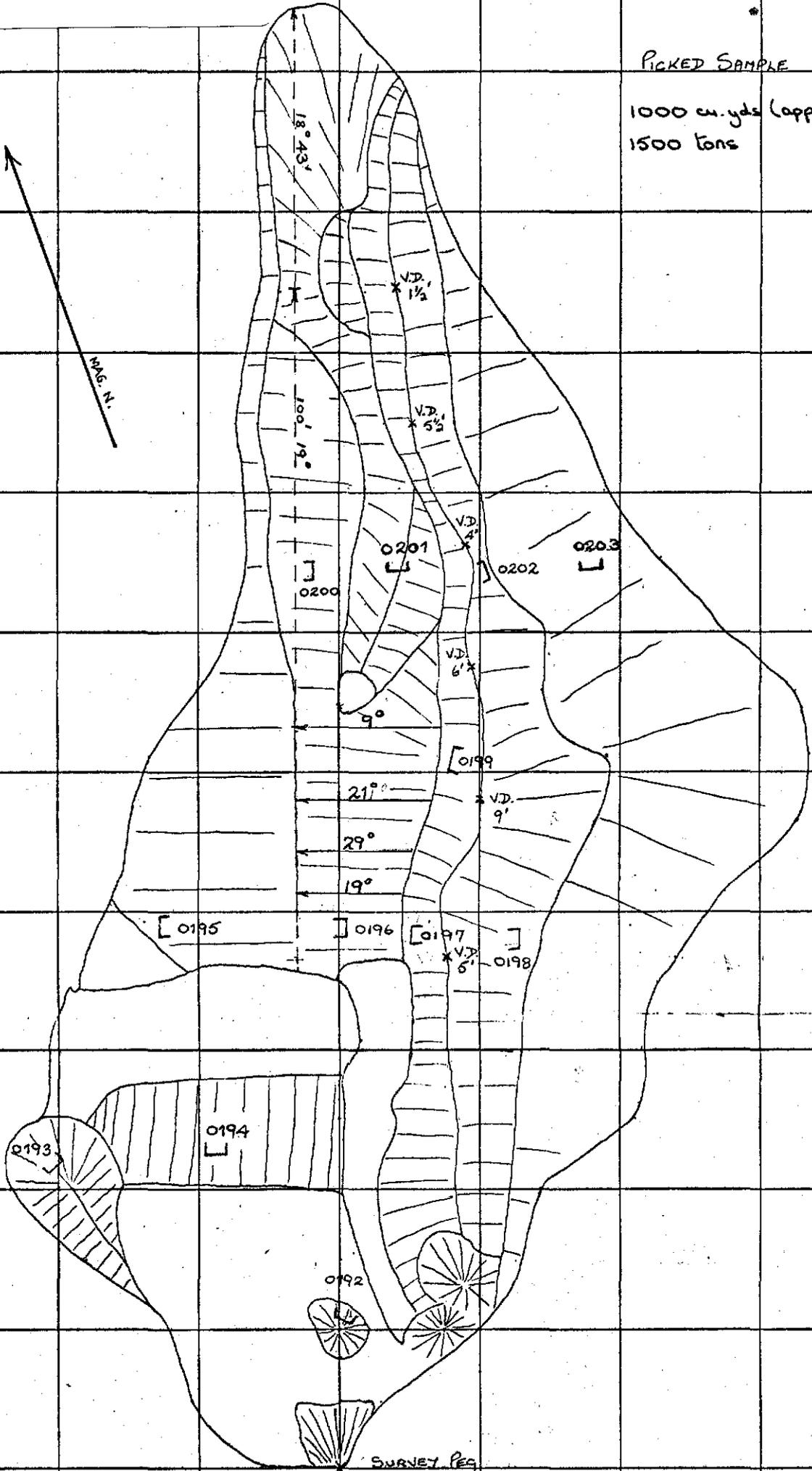
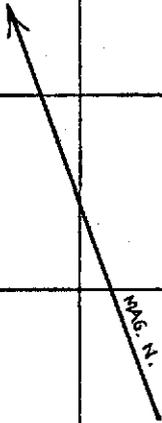
026

5 cm

PICKED SAMPLE 0204

1000 cu. yds (approx.)

1500 tons



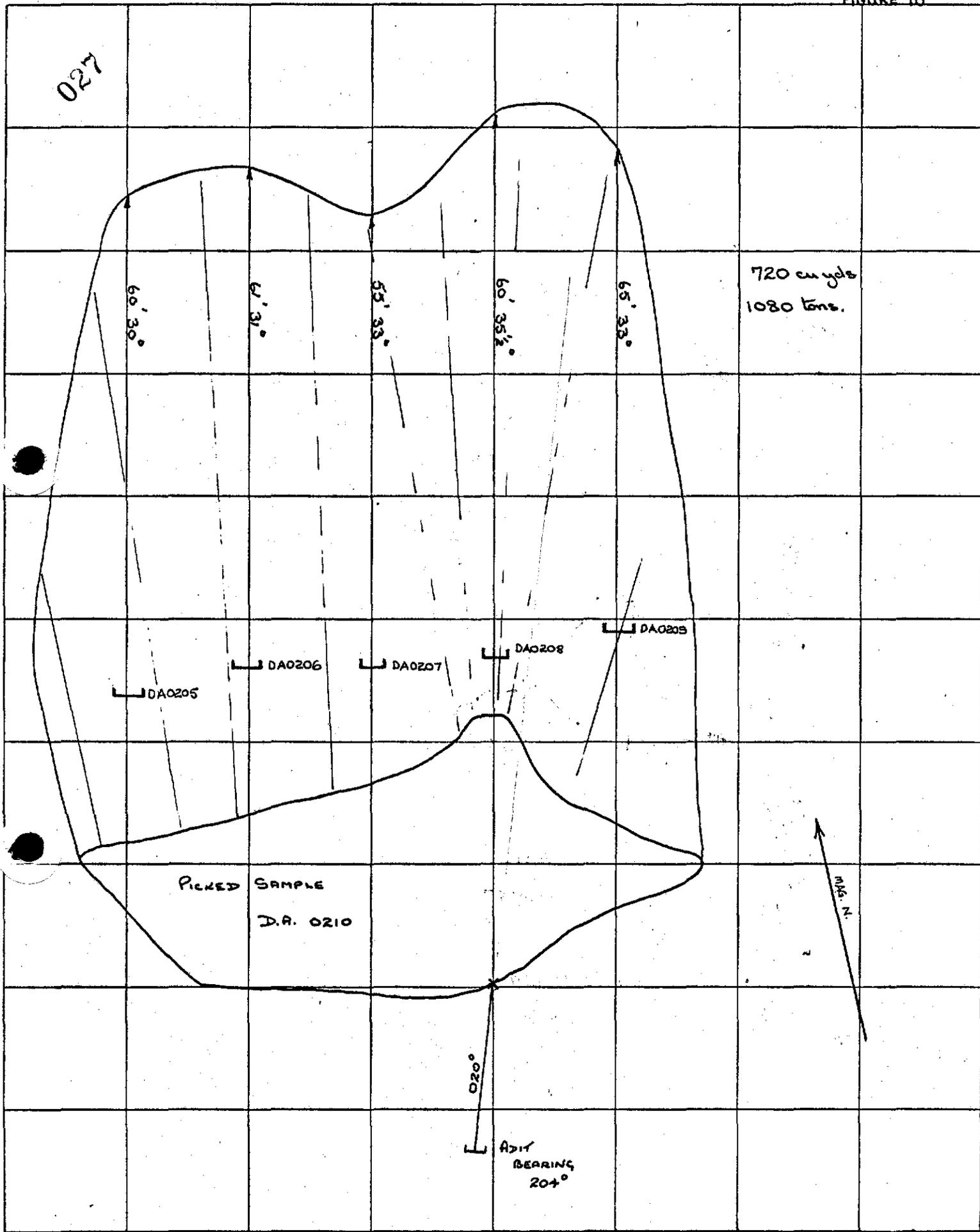
SURVEY PEG

5 cm

SCALE 1" = 20'

SPRAY ADIT DUMP

FIGURE 10



SCALE 20' = 1"

SPRAY ADIT DUMP

FIGURE II

028

"ALBANY" NO. 195M RACON, N.Y.  
M.B. 5.1.195.67

2000 cu. yds (APPROX.)  
3000 tons

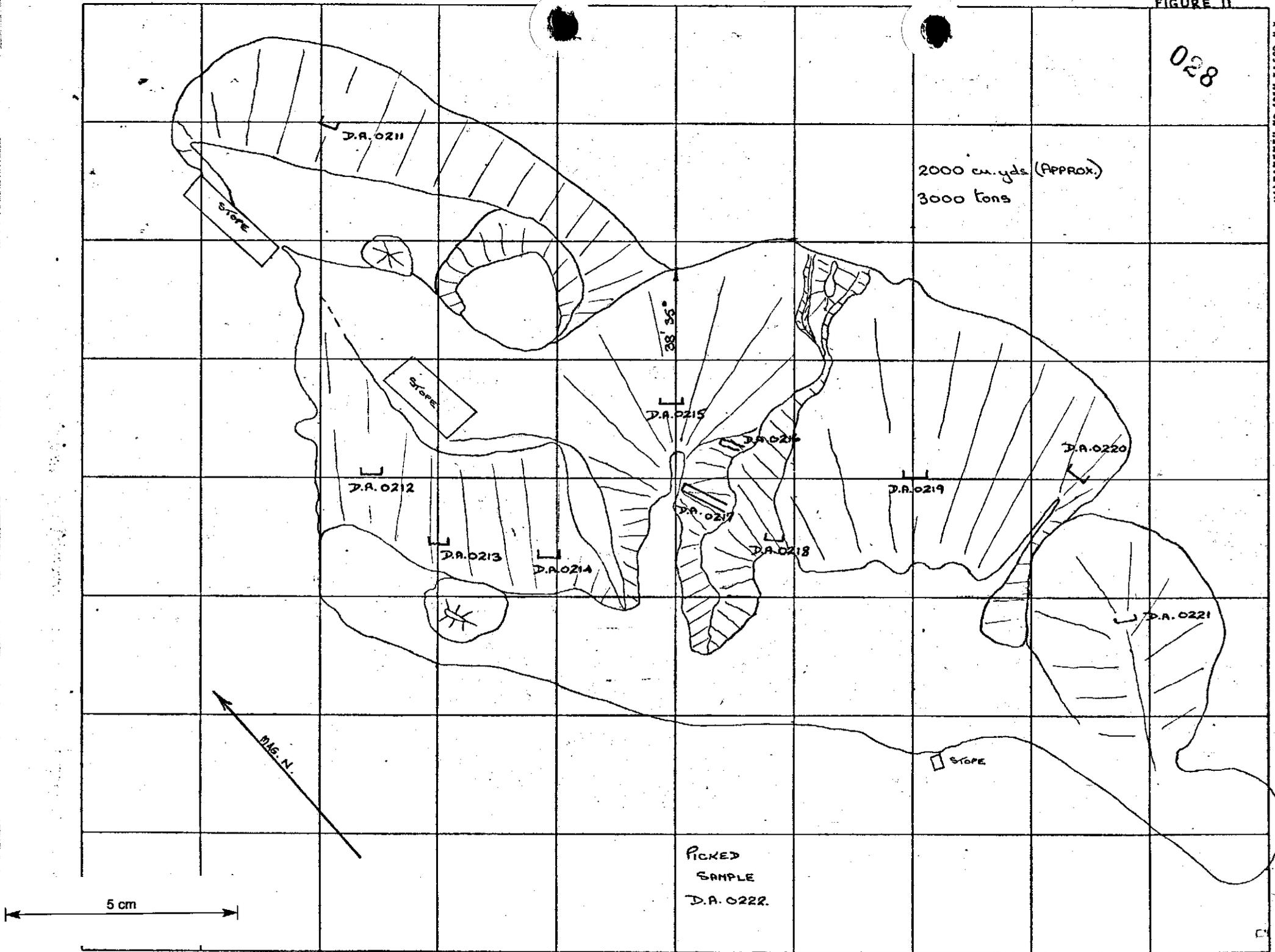


FIGURE II.

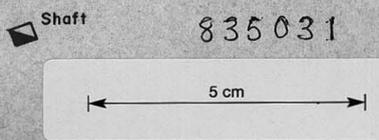
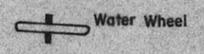
835030

320 c.yds (total)

INSET  
SCALE 50 TO 1

530 c.yds

250 c.yds



71-793

50/59  
FIGURE 12

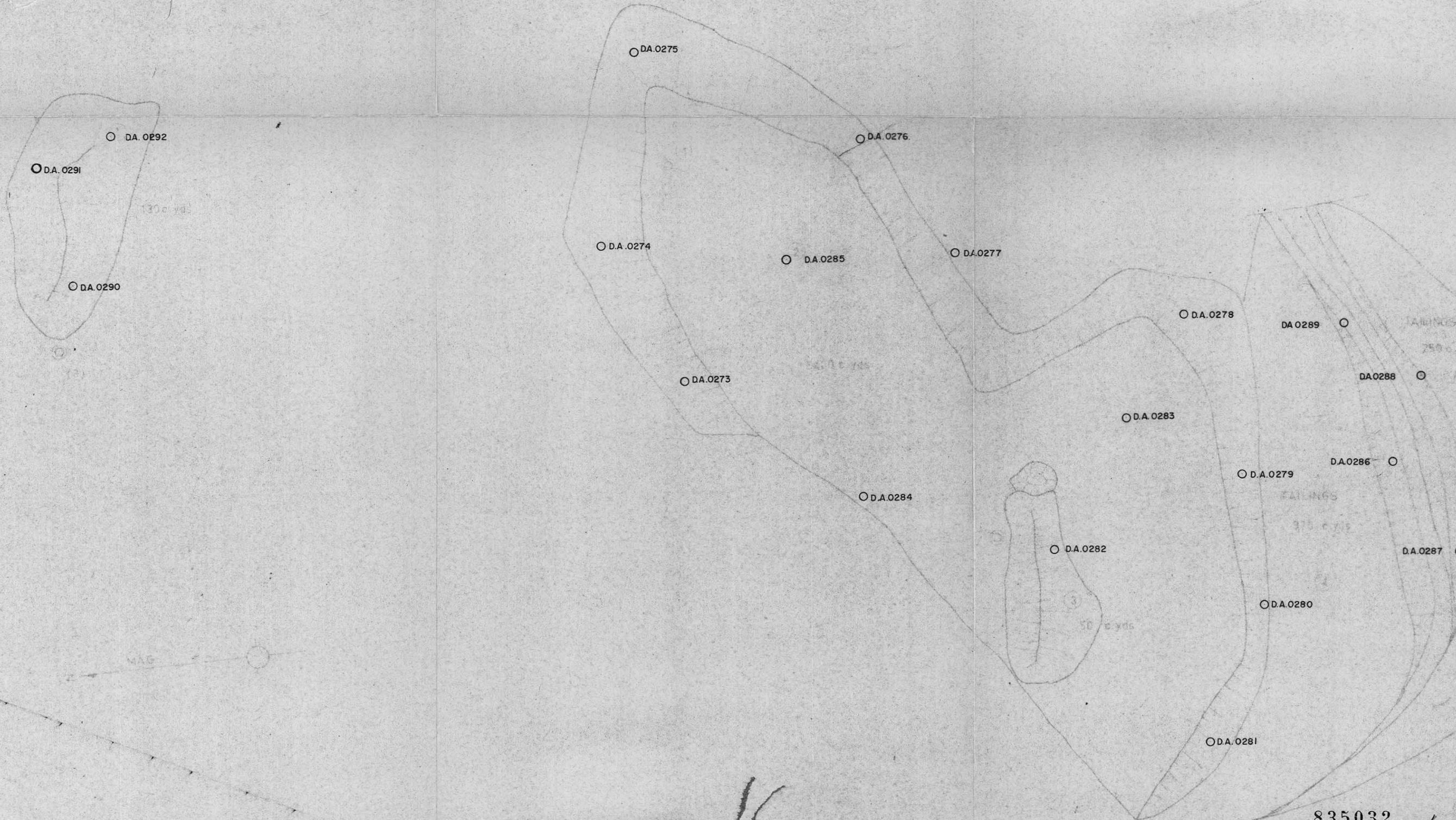
G. FISHER LAND & ENGINEERING SURVEYOR  
LAUNCESTON, TASMANIA

TENNECO AUSTRALIA INC.  
WASTE DUMPS SWANSEA AREA  
ZEEHAM, TASMANIA

1144

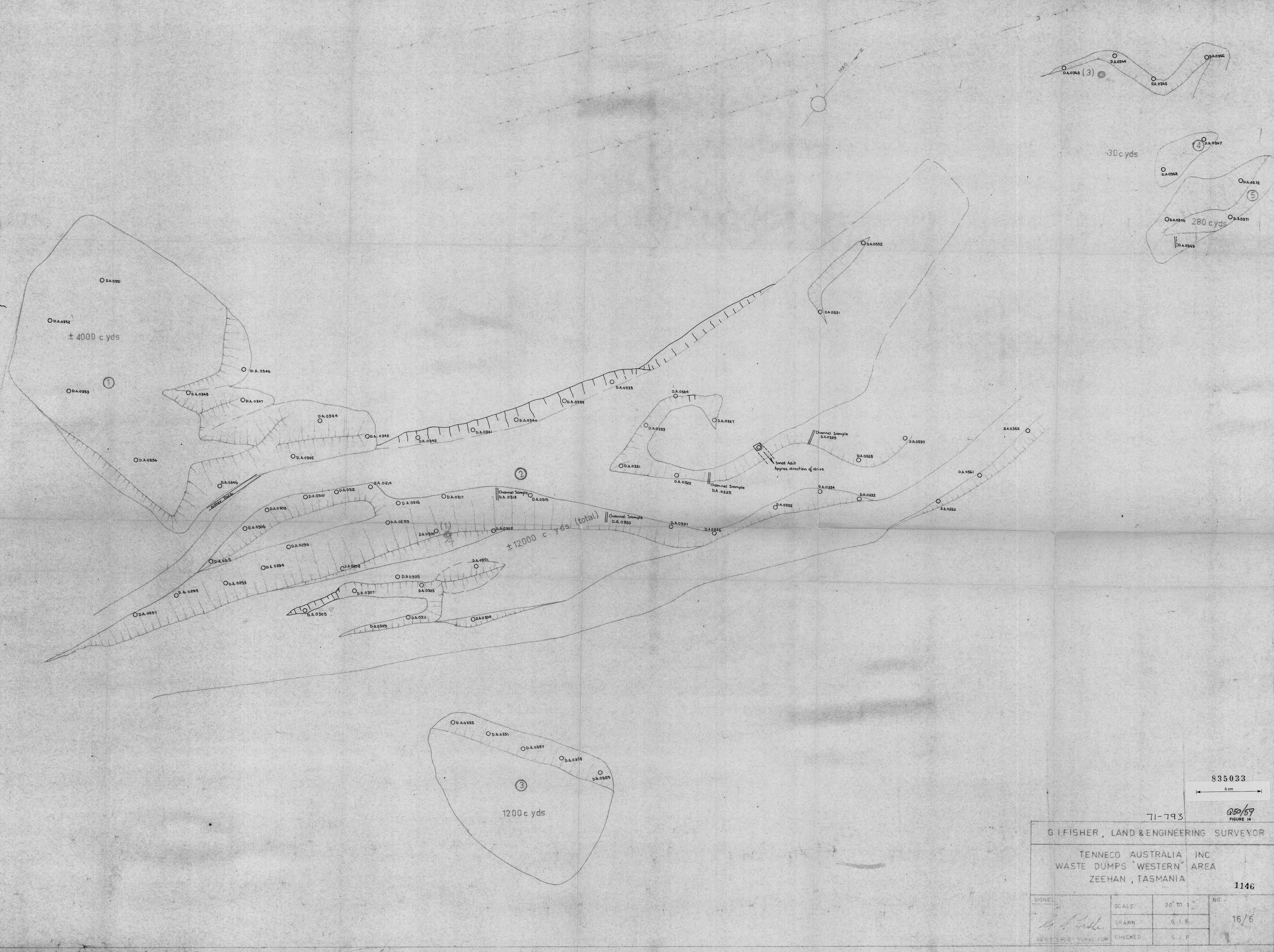
APPROVED	SCALE	20 TO 1
<i>G. Fisher</i>	DRAWN	G. F.
	CHECKED	G. F.

15/5



835032  
71-793 050/59  
FIGURE 13

G. FISHER LAND & ENGINEERING SURVEYOR			
LANDS DEPT. TASMANIA			
TENNELA AUSTRALIA INC			
WASTE DUMPS OCEANA AREA 1145			
ZEEHAN TASMANIA			
DATE	SCALE	BY	CHECKED
	1:1000	G.F.F.	
		G.F.F.	



835033

5 cm

71-793

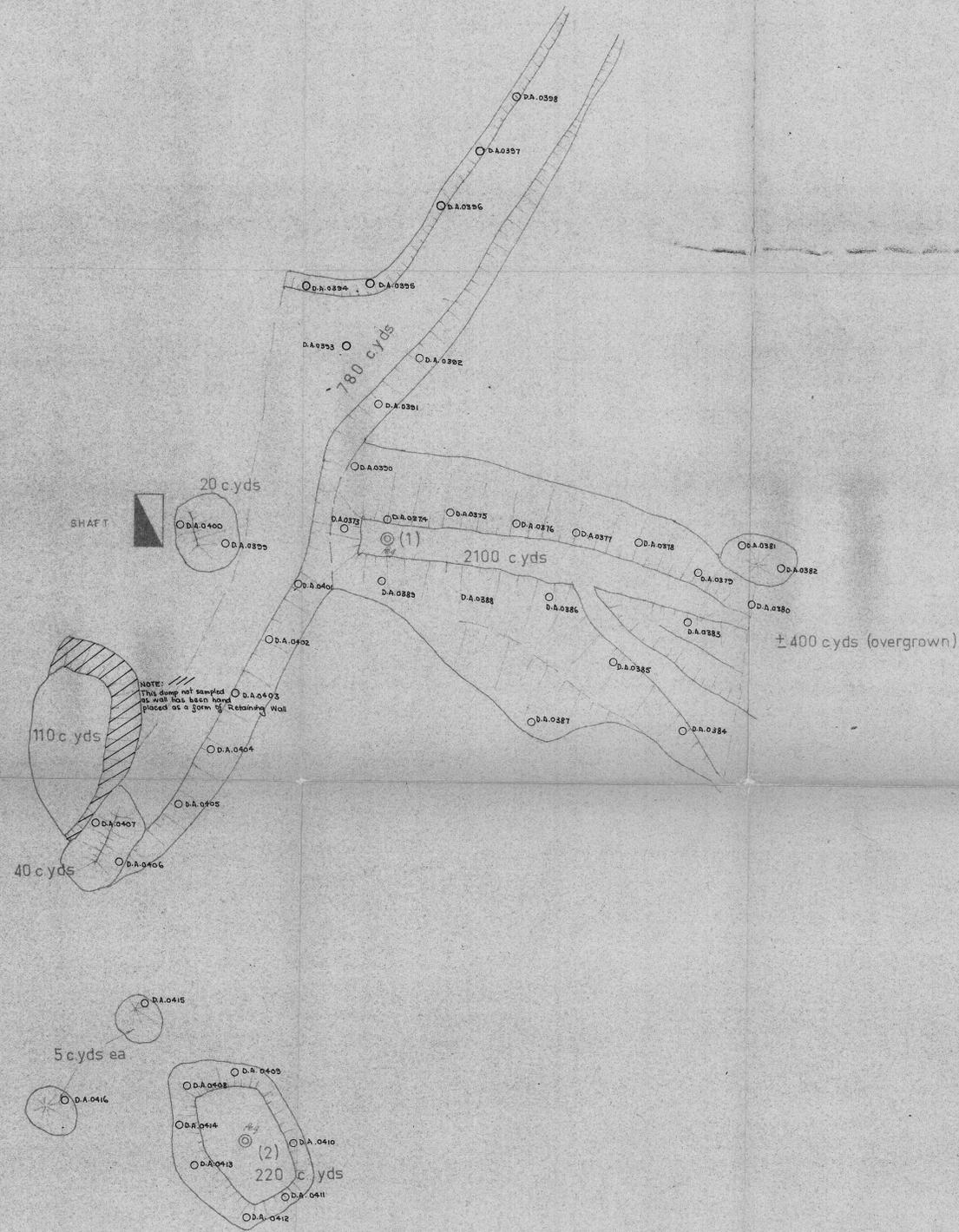
0150/59  
FIGURE 14

G. I. FISHER, LAND & ENGINEERING SURVEYOR

TENNECO AUSTRALIA INC  
WASTE DUMPS "WESTERN" AREA  
ZEEHAN, TASMANIA

1146

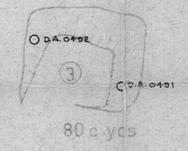
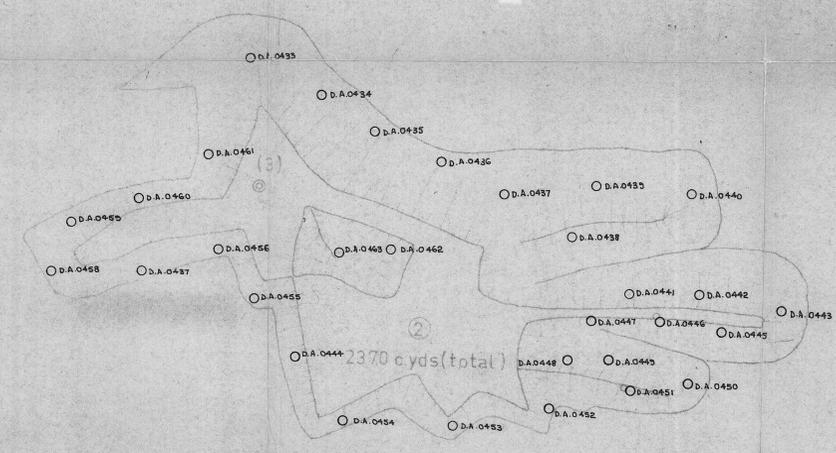
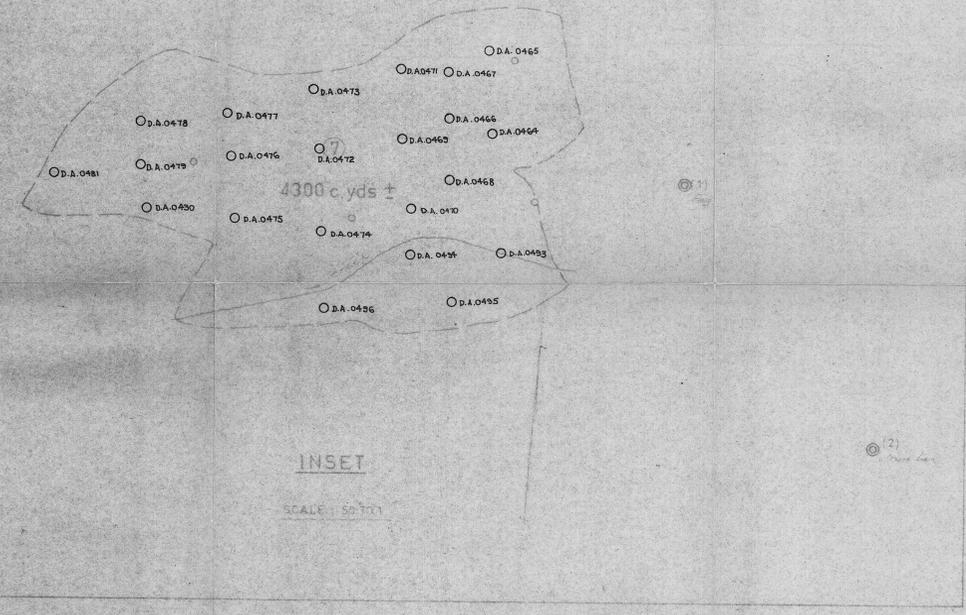
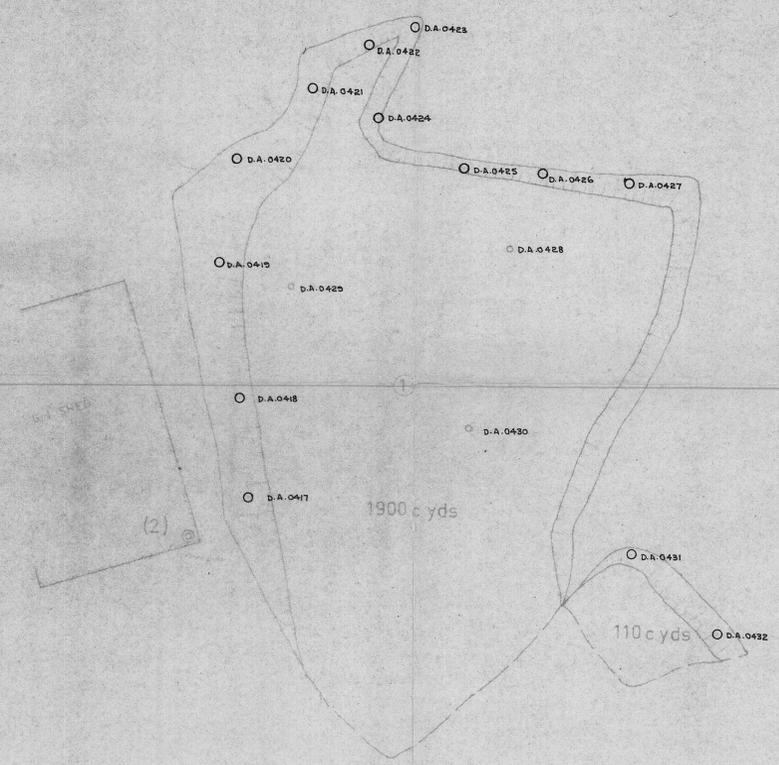
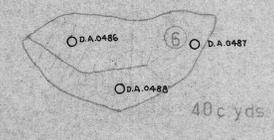
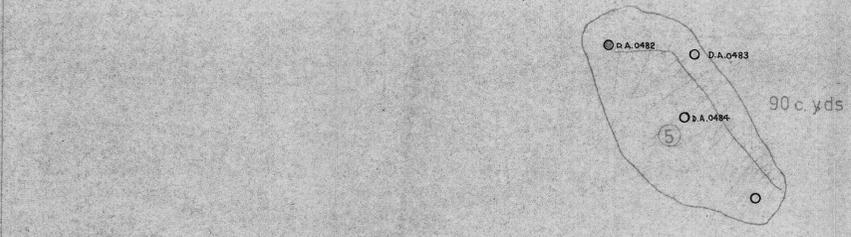
SIGNED	SCALE	20' TO 1"	NO
<i>G. I. Fisher</i>	DRAWN	G. I. F.	16/6
REGISTERED SURVEYOR	CHECKED	G. I. F.	



835034  
5 cm

71-793

G. FISHER, LAND & ENGINEERING SURVEYOR			
TENNECO AUSTRALIA INC WASTE DUMPS, SILVER CROWN AREA ZEEHAN, TASMANIA			
1147			
SIGNED <i>G. Fisher</i>	SCALE 20 TO 1	DATE 16/5	REP 16/5
REGISTERED SURVEYOR	CHECKED	DATE	

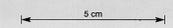


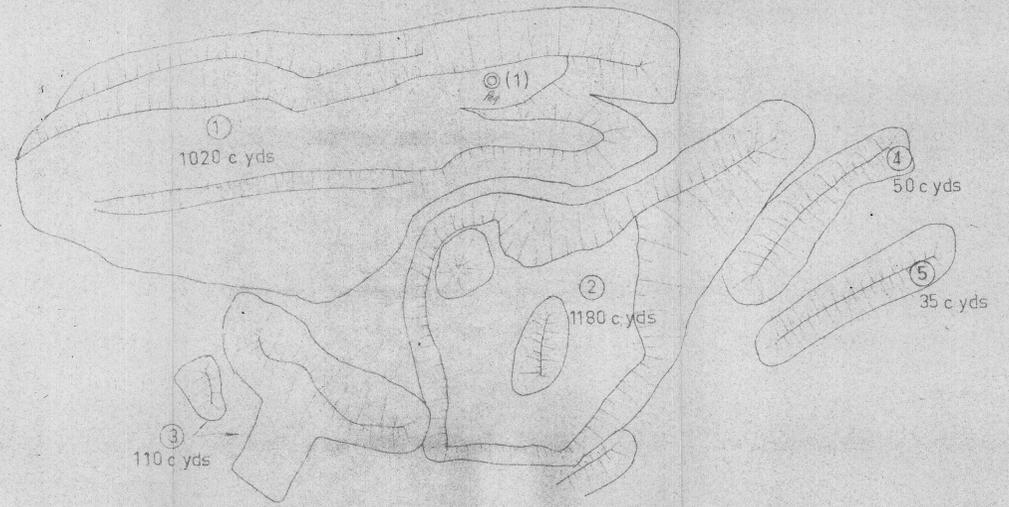
SCALE 20 TO 1

G. I. FISHER, LAND & ENGINEERING SURVEYOR			
TENNECO AUST. INC.		835075	
WASTE DUMPS		1148	
MAY QUEEN AREA, ZEEHAN, TAS			
SIGNED	SCALE	AS SHOWN	NO.
<i>G. I. Fisher</i>			15/4
REGISTERED SURVEYOR	DRAWN	C.F.	
	CHECKED	S.I.E.	

71-793

060/59  
FIGURE 16

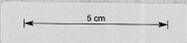


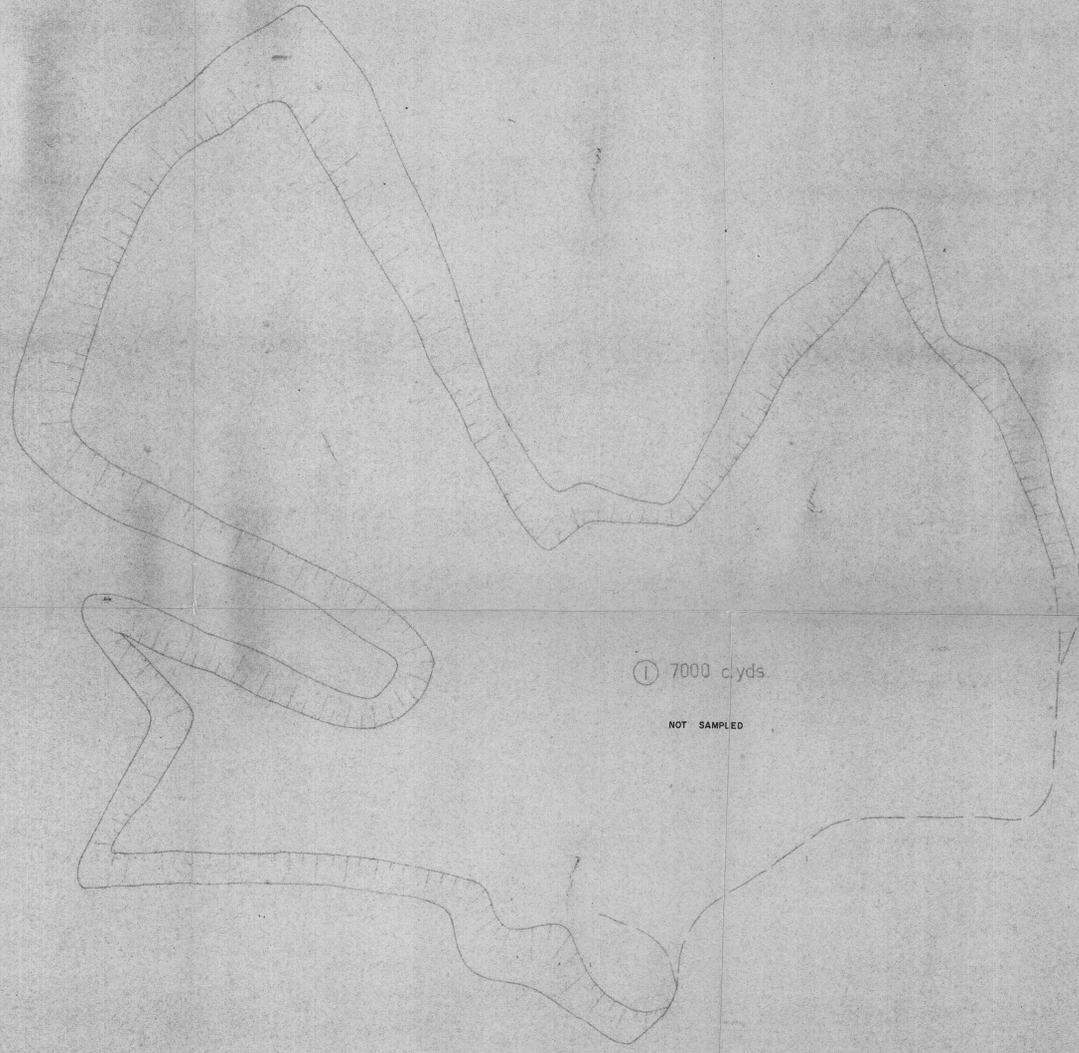


71-793

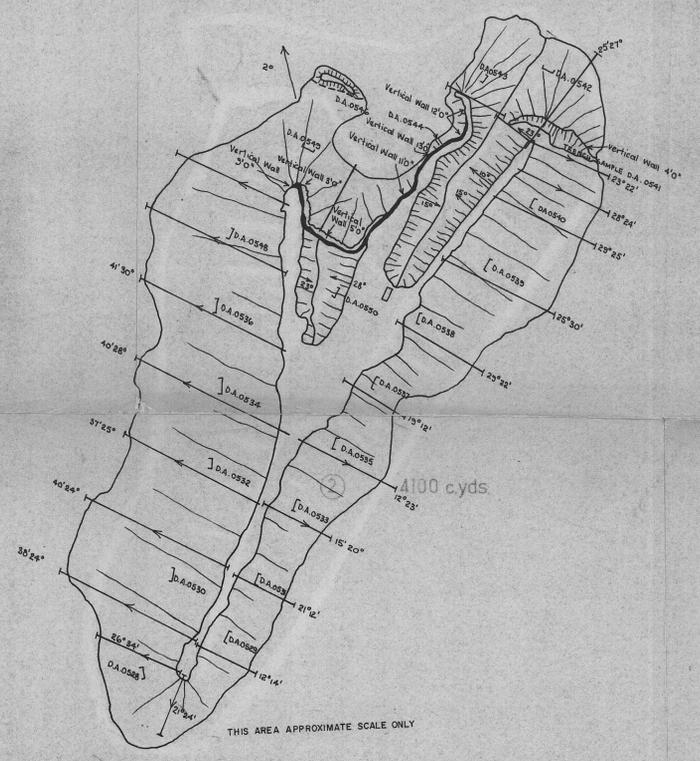
Q56/59  
FIGURE 17

GIFSHER, LAND & ENGINEERING SURVEYOR			
TENNECO AUSTRALIA INC			
WASTE DUMPS, SPRAY AREA			
ZEEHAN, TASMANIA			
			835036
			1149
APPROVED	SCALE	DATE	AC
<i>[Signature]</i>			
			15/02





① 7000 cyds  
NOT SAMPLED



THIS AREA APPROXIMATE SCALE ONLY

835037  
5 cm

71-793 *050/69*  
FIGURE 1B

G. I. FISHER LAND & ENGINEERING SURVEYOR LAUNCESTON PHONE 3 4207		
TENNECO AUSTRALIA INCORPORATED WASTE DUMPS FLORENCE AREA ZEEHAN, TASMANIA 1150		
SCALE	20" = 1"	NO. 15/77
DRAWN	R. J. P.	
CHECKED	G. I. F.	

