

Memorandum 4600 6917 (p.361)

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N 36 9 18 }

112/119

NCB State (Jan 1983):
Shaft sunk 1910
reworking until 1921
Fills 1981

PALMERTON AIR SHAFT SECTION

DATE OF SINKING 1920.

SK46NE13

Capped March 1968

No.		Yds	Ft.	Ins.	Yds.	Ft.	Ins.
1	Ready bricked	7	2	4	7	23	2
2	Soft Blue Bind	2	0	0	19	59	2
3	Dark Bind	2	0	3	21	65	2
4	Fire Clay	0	1	6	22	67	1
5	Soft Clunch	0	2	6	23	69	0
6	Stone Bind (full of slips)	3	1	6	26	80	2
7	Blue Bind	3	0	2	31	95	2
8	Coal	0	0	1 1/2	31	95	2
9	Soft Clunch	1	2	6	33	100	1
10	Soft Blue Bind	2	0	3	35	107	2
11	Soft Blue Bind with Ironstone Balls	3	2	0	59	118	1
12	Blue Bind	0	1	8	39	119	2
13	Coal (and Bat) SUTTON MB COAL	0	1	0	40	120	0
14	Clunch	0	1	7	40	122	2
15	Stone Bind with rock bands	1	1	1	42	126	0
16	Beddy Rock with soft bind bands	2	2	0	44	134	2
17	Stone Bind	0	1	8	45	136	1
18	Coal and dirt	0	1	8 9	45	137	2
19	Stone clunch	0	2	0	46	139	1
20	Stone Bind	0	2	10	47	142	1
21	Strong Blue Bind	0	1	8	48	144	0
22	Blue Bind with Ironstone Balls	3	0	4	51	153	0
23	Hard Brown Gank	0	1	0	51	154	1
24	Blue Bind with Ironstone Balls HAUGHTON MB	8	0	6	59	178	2
25	Strong Dark Bind with Ironstone Balls	0	2	10	60	182	2
26	Strong Clunch	0	2	4	61	184	1
27	Stone Bind	2	0	4	63	190	1
28	Dark Bind (with coal bands) SWINTON POTTERY ABOUT HERE	1	0	5	64	194	2
29	Stone Clunch	1	2	3	66	199	1
30	Hard Rock	1	2	6	68	204	0
31	Coal	0	0	0 1/2	68	204	0
32	Stone Clunch	1	0	9	69	208	1
33	Blue Bind with Ironstone bands	2	0	6	71	215	2
34	Coal	0	1	0	72	216	0
35	Fire Clay	0	0	8	72	216	0
36	Rock (gives off water)	1	2	6	74	222	0
37	Beddy Rock	1	2	4	75	227	2
38	Blue Bind	4	0	7	80	240	0
39	Dark Bind	0	2	9	81	243	0
40	Coal	0	0	7	81	243	0
41	Soft Clunch	0	0	6	81	244	1
42	Stone Clunch	0	2	1	82	246	0
43	Beddy Rock with Stone bind bands	3	0	0	85	255	0
44	Grey Rock	3	2	2	88	264	2
45	Stone Bind	1	0	4	89	267	2
46	Stone Bind	4	0	2	93	281	2
47	Dark Bind	0	2	3	94	284	2
48	Stone Clunch	1	1	2	96	288	0
49	Stone Bind	2	1	1	98	295	1
50	Strong Blue Bind	3	2	1	102	306	0
51	Strong Dark Bind	4	0	0	106	318	0
52	Clown Coal CROWN	1	0	7	107	322	1
53	Stone Clunch	1	2	1	109	327	0
54	Strong Beddy Rock	2	2	4	111	335	2
55	Blue Bind	2	2	0	114	343	1
56	Dark Bind with Gank Balls	2	1	1	116	350	2
57	Soft Clunch	2	0	2	118	356	2
58	Stone Bind	12	1	9	131	392	1
59	Coal MB top layer?	0	1	2	131	393	2
60	Stone Clunch with Coal and bat	2	0	0	133	401	2
61	Stone Clunch with coal and bat	2	0	4	135	407	2

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MILVERTON AIR SHAFT SECTION (contd.)

WESTPHALIAN B		Yds.	ft.	Ins.	Yds.	ft.	Ins.
62	Stone Bind	0	0	4	136	0 403	3 ✓
63	Coal (mixed with bat and dark bind) <i>RAIN GANGET</i>	1	0	10	137	1 412	1 ✓
64	Stone Clunch	1	1	2	138	2 416	3 ✓
65	Strong Stone Bind	4	0	2	142	2 428	5 ✓
66	Strong Stone Bind	2	2	3	145	1 436	8 ✓
67	Coal and bat	0	1	7	146	0 438	3 ✓
68	Soft Clunch	0	0	7	146	0 438	10 ✓
69	Strong Rock	1	1	2	147	2 443	0 ✓
70	Stone Bind	8	2	10	156	1 464	10 ✓
71	Strong Dark Bind <i>TWO-FOOT M.B.</i>	5	2	4	162	1 487	2 ✓
72	Coal	0	1	11	163	0 489	1 ✓
73	Stone Clunch	1	0	0	164	0 492	1 ✓
74	Blue Bind	0	1	8	164	1 493	9 ✓
75	Coal	0	1	5	165	0 495	2 ✓
76	Soft Clunch	0	1	0	165	1 496	2 ✓
77	Stone Bind	4	0	0	169	1 508	2 ✓
78	Dark Blue Bind	2	0	8	171	1 514	10 ✓
79	Coal <i>FURNACE</i>	0	2	2	172	1 517	0 ✓
80	Stone Clunch	1	1	6	173	2 521	6 ✓
81	Stone Bind with Rock Bands	4	0	2	177	2 533	8 ✓
82	Black Bat	0	0	3	177	2 533	11 ✓
83	Clunch (with bits of coal)	0	2	0	178	1 535	11 ✓
84	Coal	0	0	5	178	2 536	4 ✓
85	Soft Clunch	0	2	0	179	1 537	4 ✓
86	Stone Bind with Cank balls	4	2	4	184	0 552	8 ✓
87	Hard Rock	5	1	4	189	2 564	0 ✓
88	Brown Cank	1	1	1	191	0 573	1 ✓
89	Grey Rock	3	0	1	194	0 582	2 ✓
90	Coal	0	1	6	194	1 583	8 ✓
91	Soft Clunch	0	1	0	194	2 584	8 ✓
92	Beddy Rock	1	0	9	196	0 588	5 ✓
93	Stone Bind	0	0	10	196	1 589	3 ✓
94	Stone Bind	3	1	6	199	2 594	9 ✓
95	Coal	0	0	8	200	0 600	5 ✓
96	Stone Clunch	1	1	6	201	1 604	11 ✓
97	Curly Stone Bind	5	0	3	206	2 620	2 ✓
98	Beddy Rock	0	2	0	207	1 622	2 ✓
99	Brown Cank	0	1	5	207	2 623	7 ✓
100	Stone Bind	5	0	6	213	0 639	1 ✓
101	Dark Bind	0	2	6	213	2 641	7 ✓
102	Coal (with streaks of clunch)	0	0	6	214	0 642	1 ✓
103	Stone Clunch	0	1	7	214	1 643	8 ✓
104	Rock Band	0	0	4	214	2 644	0 ✓
105	Brown Cank	0	1	8	215	0 645	8 ✓
106	Stone Clunch	0	0	6	215	1 646	2 ✓
107	Stone Bind	10	0	5	225	1 676	7 ✓
108	Blue Bind with Ironstone balls	4	1	9	230	0 690	4 ✓
109	High Hazel Coal ✓	1	0	5	231	0 693	9 ✓
110	Soft Clunch	0	2	0	231	2 695	9 ✓
111	Stone Clunch	0	1	6	232	1 697	3 ✓
112	Stone Bind	2	0	9	234	2 704	0 ✓
113	Grey Rock	1	0	2	235	2 707	2 ✓
114	Stone Bind	4	0	3	239	2 719	5 ✓
115	Blue Bind with Ironstone Bands	4	2	2	244	1 733	7 ✓
116	Dark Bind	1	2	3	246	0 738	10 ✓
117	Stone Clunch	0	1	9	246	2 740	7 ✓
118	Stone Bind	1	1	2	248	0 744	9 ✓
119	Blue Bind	2	0	2	250	0 750	11 ✓
120	Blue Bind with Ironstone Bands	4	0	9	254	1 763	8 ✓
121	Coal Mixed with bat and clunch	0	1	10	255	0 765	6 ✓
122	Stone Clunch	1	1	0	256	1 769	6 ✓
123	Blue Bind	2	0	6	258	2 776	0 ✓
124	Coal	0	0	9	258	2 776	9 ✓
125	Stone Clunch	0	2	9	259	2 779	6 ✓
126	Rock	1	1	1	261	0 783	7 ✓
127	Strong Stone Bind	2	1	1	263	1 790	8 ✓

1st ST JOHN'S
(Clay Coal)

1st ST JOHN'S
(Bottom Coal)



PALFERTON AIR SHAFT SECTION (contd.)

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No.	WESTPHALIAN B		Yds.	ft.	Ins.	Yds.	ft.	Ins.
128	Grey Rock		0	2	1	264	0	7 1/2 9
129	Stone Bind		4	0	3	268	1	8 0 5 0
130	Coal	2 nd ST. JOHNS	0	1	1	268	2	8 0 6 1
131	Stone Clunch		1	2	0	270	1	8 1 1 1
132	Stone Bind with Cank Balls		5	1	4	275	2	8 2 7 5
133	Grey Rock		1	0	8	277	0	8 3 1 1
134	Brown Cank		0	2	1	277	2	8 3 3 2
135	Grey Rock		0	2	2	278	1	8 3 5 4
136	Stone Bind		3	0	5	281	1	8 4 4 9
137	Blue Bind with Ironstone balls		3	0	1	284	1	8 5 3 10
138	Dark Bind		1	0	1	285	1	8 5 6 11
139	Stone Clunch		1	2	2	287	1	8 6 2 1
140	Grey Rock		4	0	3	291	1	8 7 4 4
141	Brown Cank		1	0	9	292	2	8 7 8 1
142	Stone Clunch mixed with soft bands of clunch		2	2	0	295	1	8 8 6 1
143	Stone Bind		4	0	0	299	1	8 9 8 1
144	Strong Stone Bind		3	2	5	303	0	9 0 9 6
145	Blue Bind with Ironstone Bands		4	0	3	307	0	9 1 1 9
146	Dark Bind		1	2	0	308	2	9 1 6 9
147	Stone Clunch		0	2	2	309	1	9 2 8 11
148	Stone Bind		3	2	8	313	1	9 4 0 7
149	Coal		0	1	7 1/2	314	0	9 4 2 2 1/2
150	Stone Clunch		0	2	4	314	2	9 4 4 6
151	Stone Bind		3	0	10	318	0	9 5 4 4
152	Grey Rock		1	2	6	319	2	9 5 9 10
153	Stone Bind with Ironstone Balls		1	0	6	321	0	9 6 3 4
154	Blue Bind with Ironstone Balls		4	1	4	325	1	9 7 6 8
155	Stone Bind		4	2	2	330	0	9 8 10
156	Blue Bind		1	1	0	331	1	9 9 4 10
157	Coal		0	0	5	331	2	9 9 5 3
158	Clunch with streaks of coal		1	0	8	332	2	9 9 8 11
159	Hard Grey Rock		1	0	0	333	2	1 0 0 11
160	Stone Bind with rock bands		2	0	2	336	0	1 0 8 1
161	Beddy Rock		6	0	7	342	0	1 0 2 6 8
162	Grey Rock		3	0	6	345	1	1 0 3 6 2
163	Top Hard Coal	✓	2	0	2	347	1	1 0 4 2 4
164	Branch		0	0	4	347	1	1 0 4 2 8
165	Clunch		1	1	6	349	0	1 0 4 8 2
166	Rock		2	2	10	352	0	1 0 5 6 0
167	Bind with rock bands		3	2	6	355	2	1 0 6 7 6
168	Grey Rock		0	2	0	356	1	1 0 6 9 6
169	Brown Cank		1	0	6	357	2	1 0 7 3 0
170	Grey Rock		0	2	10	358	1	1 0 7 5 10
171	Stone Bind		0	1	10	359	0	1 0 7 7 8

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DESCRIPTION OF SHAFT SECTION

DATE OF SURVEY 1920.

No.		Yds.	Ft.	Inch.	Yds.	Ft.	Inch.
1	Ready bricked	7	2	4	7	2	4
2	Soft Blue Bind	12	0	0	19	2	4
3	Dark Bind	2	0	0	21	2	4
4	Fire Clay	0	1	6	22	1	7
5	Soft Clunch	0	2	6	23	0	7
6	Stone Bind (full of slips)	3	1	6	26	2	1
7	Blue Bind	3	0	2	31	2	3
8	Coal	0	0	1	31	2	4
9	Soft Clunch	1	2	6	33	1	13
10	Soft Blue Bind	2	0	3	35	2	1
11	Soft Blue Bind with Ironstone Balls	3	2	0	39	1	1
12	Blue Bind	0	1	8	39	2	9
13	Coal (and Bat)	0	1	0	40	0	9
14	Clunch	0	1	7	40	2	4
15	Stone Bind with rock bands	1	1	1	42	0	5
16	Beddy Rock with soft bind bands	2	2	0	44	2	5
17	Stone Bind	0	1	8	45	1	1
18	Coal and dirt	0	1	2	45	2	10
19	Stone clunch	0	2	0	46	1	10
20	Stone Bind	0	2	10	47	1	6
21	Strong Blue Bind	0	1	8	48	0	4
22	Blue Bind with Ironstone Balls	3	0	4	51	0	6
23	Hard Brown Gank	0	1	0	53	1	2
24	Blue Bind with Ironstone Balls	8	0	6	59	2	2
25	Strong Dark Bind with Ironstone Balls	0	2	10	60	2	0
26	Strong Clunch	0	2	4	61	1	4
27	Stone Bind	2	0	4	63	1	8
28	Dark Bind (with coal bands)	1	0	5	64	2	1
29	Stone Clunch	1	2	6	66	1	4
30	Hard Rock	1	2	6	68	0	10
31	Coal	0	0	0	68	0	11
32	Stone Clunch	1	0	9	69	1	8
33	Blue Bind with Ironstone bands	2	0	6	71	2	2
34	Coal	0	1	0	72	0	2
35	Fire Clay	0	0	6	72	0	10
36	Rock (gives off water)	1	2	6	74	0	4
37	Beddy Rock	1	2	4	75	2	8
38	Blue Bind	4	0	0	80	0	0
39	Dark Bind	0	2	0	81	0	0
40	Coal	0	0	0	81	0	0
41	Soft Clunch	0	0	6	81	1	1
42	Stone Clunch	0	2	1	82	0	2
43	Beddy Rock with Stone bind bands	3	0	0	85	0	2
44	Grey Rock	3	2	2	88	2	4
45	Stone Bind	1	0	4	89	2	8
46	Stone Bind	4	0	2	93	2	10
47	Dark Bind	0	2	3	94	2	1
48	Stone Clunch	1	1	2	96	0	3
49	Stone Bind	2	1	1	98	1	4
50	Strong Blue Bind	3	2	1	102	0	5
51	Strong Dark Bind	2	0	0	106	0	5
52	Clown Coal	1	0	7	107	1	0
53	Stone Clunch	1	2	1	109	0	1
54	Strong Beddy Rock	2	2	4	111	2	3
55	Blue Bind	2	2	0	114	1	3
56	Dark Bind with Gank Balls	2	1	2	116	2	8
57	Soft Clunch	2	0	2	118	2	0
58	Stone Bind	12	1	2	131	1	5
59	Coal	0	1	2	131	2	7
60	Stone Clunch with coal and bat	2	0	0	133	2	7
61	Stone Clunch with coal and bat	2	0	0	135	2	11

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WILKINGTON AIR SHANT SECTION (contd.)

WESTPHALIAN B

		Yds.	ft.	Ins.	Yds.	ft.	Ins.
62	Stone Bind	0	0	4	136	0	3
63	Coal (mixed with bat and dark bind)	1	0	10	137	1	1
64	Stone Clunch	1	1	2	138	2	3
65	Strong Stone Bind	4	0	2	142	2	5
66	Strong Stone Bind	2	2	3	145	1	8
67	Coal and bat	0	1	7	146	0	3
68	Soft Clunch	0	0	7	146	0	10
69	Strong Rock	1	1	2	147	2	0
70	Stone Bind	8	2	10	156	1	10
71	Strong Dark Bind	5	2	4	162	1	2
72	Coal	0	1	11	163	0	1
73	Stone Clunch	1	0	0	164	0	1
74	Blue Bind	0	1	8	164	1	9
75	Coal	0	1	5	165	0	2
76	Soft Clunch	0	1	0	165	1	2
77	Stone Bind	4	0	0	169	1	2
78	Dark Blue Bind	2	0	8	171	1	10
79	Coal	0	2	2	172	1	0
80	Stone Clunch	1	1	6	173	2	6
81	Stone Bind with Rock Bands	4	0	2	177	2	8
82	Black Bat	0	0	3	177	2	11
83	Clunch (with bits of coal)	0	2	0	178	1	11
84	Coal	0	0	5	178	2	4
85	Soft Clunch	0	2	0	179	1	4
86	Stone Bind with Cank balls	4	2	4	184	0	8
87	Hard Rock	5	1	4	189	2	0
88	Brown Cank	1	1	1	191	0	1
89	Gray Rock	3	0	1	194	0	2
90	Coal	0	1	6	194	1	8
91	Soft Clunch	0	1	0	194	2	8
92	Beddy Rock	1	0	9	196	0	3
93	Stone Bind	0	0	10	196	1	3
94	Stone Bind	3	1	6	199	2	9
95	Coal	0	0	8	200	0	9
96	Stone Clunch	1	1	6	201	1	11
97	Curly Stone Bind	5	0	3	206	2	2
98	Beddy Rock	0	2	0	207	1	2
99	Brown Cank	0	1	5	207	2	7
100	Stone Bind	5	0	6	213	0	1
101	Dark Bind	0	2	6	213	2	7
102	Coal (with streaks of clunch)	0	0	6	214	0	1
103	Stone Clunch	0	1	7	214	1	8
104	Rock Band	0	0	4	214	2	0
105	Brown Cank	0	1	8	215	0	8
106	Stone Clunch	0	0	6	215	3	2
107	Stone Bind	10	0	5	225	1	7
108	Blue Bind with Ironstone balls	4	1	9	230	0	4
109	High Hazel Coal	1	0	5	231	0	9
110	Soft Clunch	0	2	0	231	2	9
111	Stone Clunch	0	1	6	232	1	3
112	Stone Bind	2	0	9	234	2	0
113	Gray Rock	1	0	2	235	2	2
114	Stone Bind	4	0	3	239	2	5
115	Blue Bind with Ironstone Bands	4	2	2	244	1	7
116	Dark Bind	1	2	3	246	0	10
117	Stone Clunch	0	1	9	246	2	7
118	Stone Bind	1	1	2	248	0	9
119	Blue Bind	2	0	2	250	0	11
120	Blue Bind with Ironstone Bands	4	0	9	254	1	8
121	Coal Mixed with bat and clunch	0	1	10	255	0	6
122	Stone Clunch	1	1	0	256	1	6
123	Blue Bind	2	0	6	258	2	0
124	Coal	0	0	9	258	2	9
125	Stone Clunch	0	2	9	259	2	6
126	Rock	1	1	1	261	0	7
127	Strong Stone Bind	2	1	1	265	1	8

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1. What is the purpose of the study?
 2. What are the research questions?
 3. What is the significance of the study?
 4. What are the limitations of the study?
 5. What are the conclusions of the study?

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8. July 1981