PR- Pine Pass 80127B

93019

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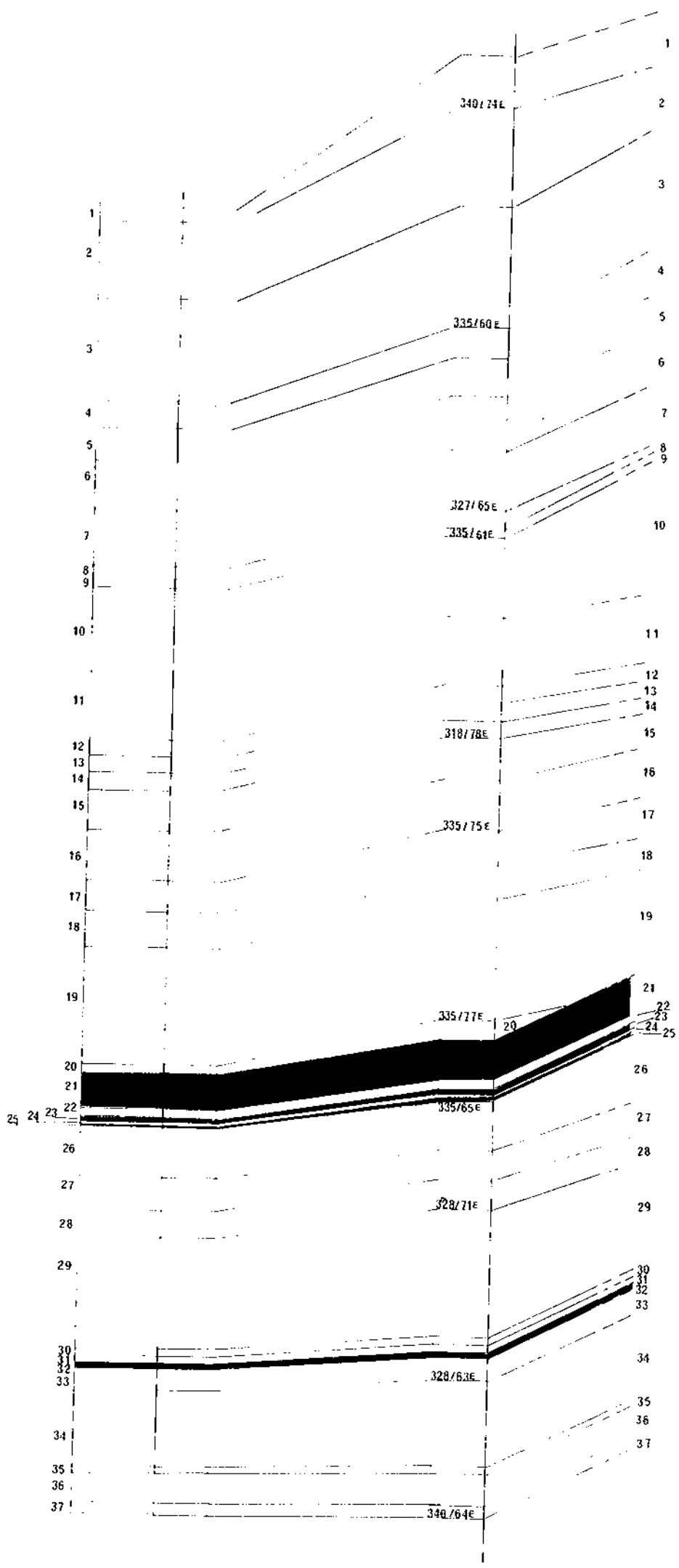
Maps and Trench Sections

Box 2



Unit	Lithologic Description
1	sandstone
2	carbonaceous shale with coal stringers
3	shale, slightly carbonaceous
4	mudstone
5	sandstone, fine grained
6	mudstone
7	shale with interbeds of mudstone
8	carbonaceous shale
9	mudstone
10	sandstone, fine grained
11	mudstone
12	carbonaceous shale, coal stringers
13	sandstone, fine grained
14	shale
15	sandstone, fine grained
16	shale
17	carbonaceous shale
18	sandstone, fine grained
19	shale and mudstone, interbedded
20	carbonaceous shale
21	COAL, seam 78
22	shale
23	COAL (6.2m)
24	shale
25	COAL (0.1m)
26	carbonaceous shale, coal stringers
27	overburden
28	siltstone
29	shale
30	COAL (0.24m)
31	shale
32	COAL (0.2m)
33	coaly shale
34	carbonaceous shale
35	coaly shale
36	mudstone
37	sandstone, fine grained

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PR-Pine Pass 82(2)B

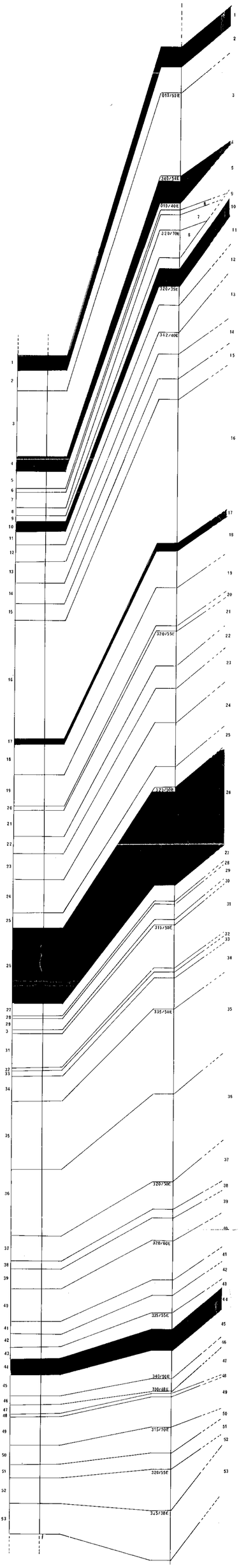
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION W9

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 10-9
DATE: MAY, 1981	REVISED:	DRAWING No: HF-791
To Accompany		



Unit	Lithologic Description
1	COAL (1.5m)
2	sandstone
3	mudstone
4	COAL (1.6m)
5	siltstone
6	mudstone, silty
7	carbonaceous shale
8	mudstone
9	shale
10	COAL (1.0m)
11	shale
12	overburden
13	siltstone
14	overburden
15	sandstone
16	overburden
17	COAL (0.6m)
18	mudstone
19	carbonaceous shale
20	coaly shale
21	sandstone
22	mudstone
23	shale - interbeds of carbonaceous shale
24	sandstone
25	shale
26	COAL (7.5m)
27	shale
28	sandstone, fine grained
29	shale
30	sandstone
31	carbonaceous shale
32	sandstone
33	carbonaceous shale
34	shale
35	sandstone
36	shale
37	sandstone, fine grained
38	carbonaceous shale
39	mudstone
40	carbonaceous shale
41	sandstone, fine grained
42	shale
43	carbonaceous shale with coal stringer
44	COAL (1.6m)
45	overburden
46	sandstone, fine grained with rusty weathering
47	carbonaceous shale
48	sandstone, fine grained
49	carbonaceous shale
50	shale with carbonaceous material
51	mudstone, silty
52	shale
53	mudstone, slightly silty with interbeds of siltstone

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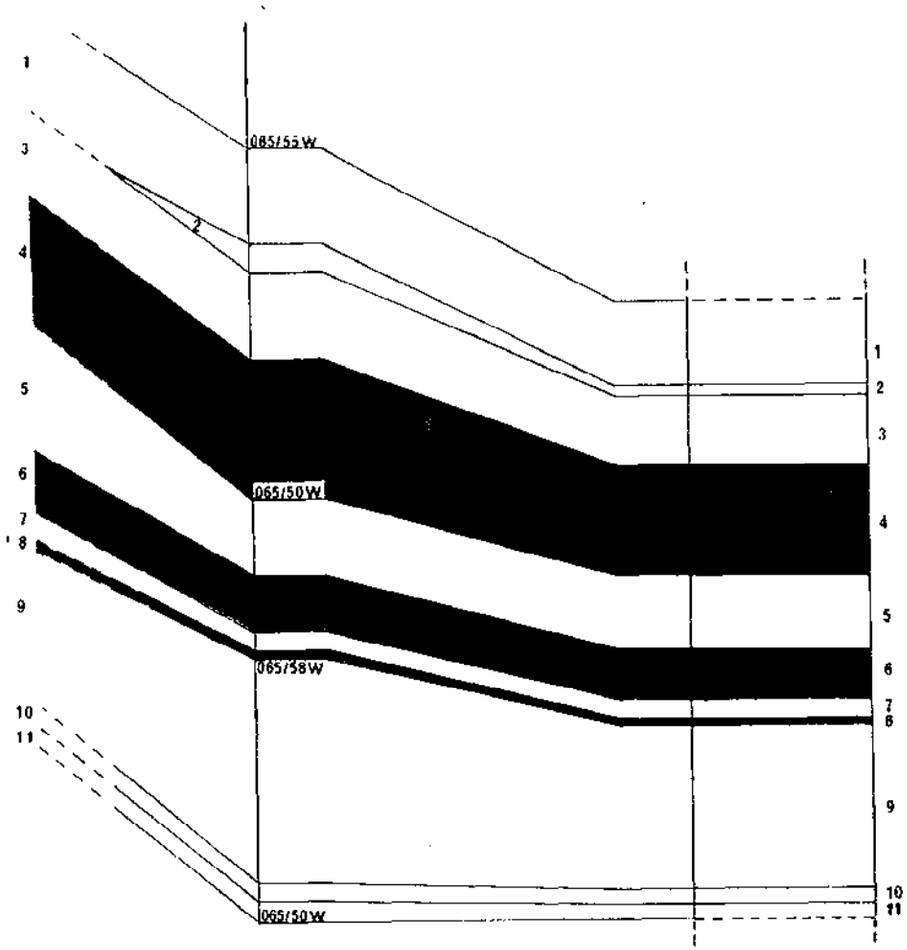
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION W 19

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 10.19
DATE: MAY, 1981	REVISED:	DRAWING No: HF-79 Q
To Accompany		



Unit	Lithologic Description
1	silty mudstone
2	coaly shale
3	silty mudstone
4	COAL (3.0m)
5	siltstone
6	COAL (1.4m)
7	mudstone
8	COAL (0.2m)
9	siltstone
10	coaly shale
11	mudstone

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PR-Pine Pass 80(2)B

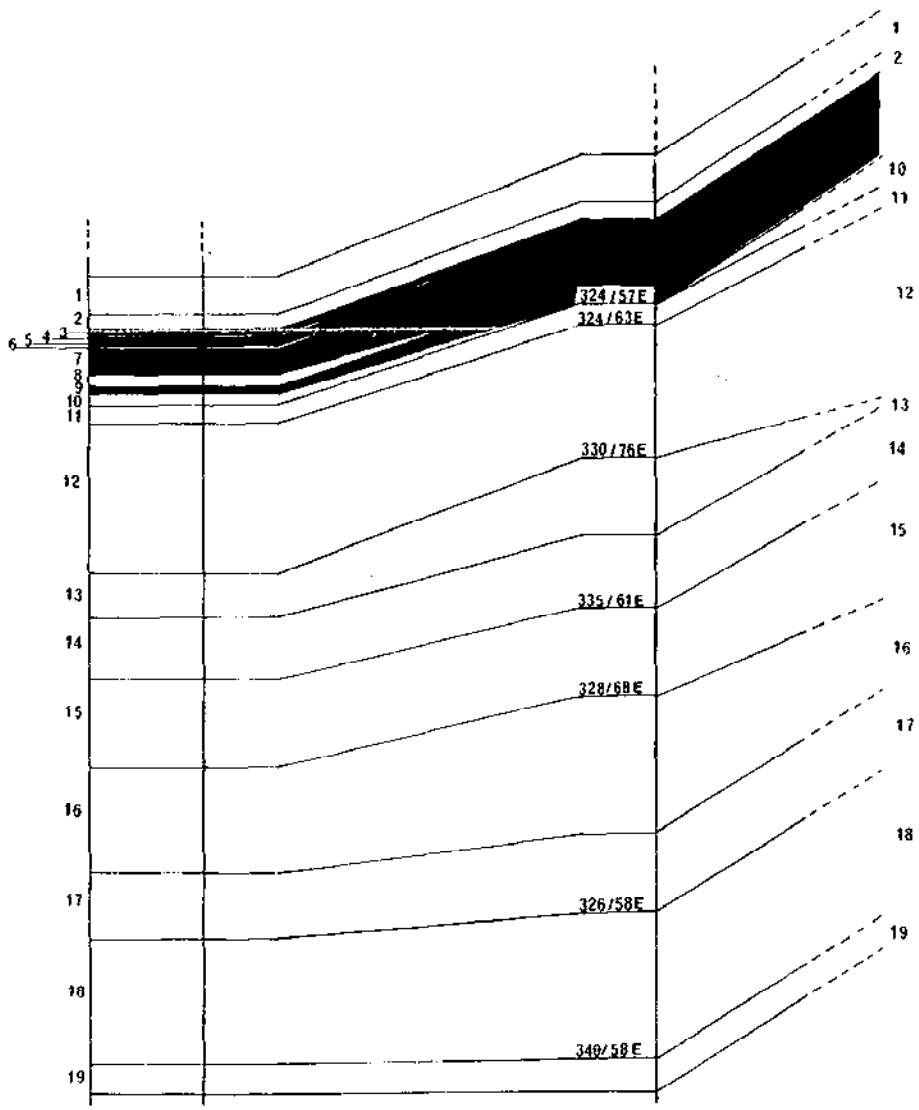
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION W 17

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 10-17
DATE: MAY, 1981	REVISED:	DRAWING No: HF-790
To Accompany		



Unit	Lithologic Description
1	sandstone, fine grained
2	shale
3	COAL (0.1m)
4	shale
5	COAL (0.2m)
6	shale
7	COAL (0.7m)
8	shale
9	COAL (0.2m)
10	shale
11	sandstone, fine grained
12	shale, thin bands of carbonaceous shale
13	siltstone
14	sandstone, fine grained
15	siltstone
16	sandstone, fine grained
17	sitlstone, interbeds of carbonaceous shale
18	shale, carbonaceous, minor coal stringers

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AR-Pine Pass 80(2)B

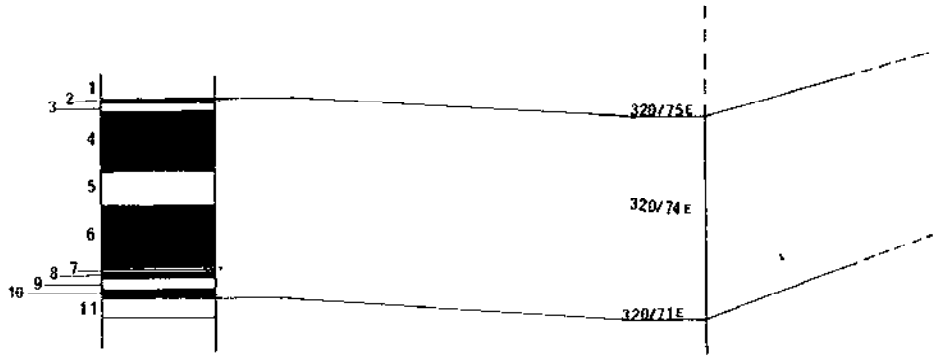
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION W 10

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 10-10
DATE: MAY, 1981	REVISED:	DRAWING No: HF-79 J
To Accompany		



Unit	Lithologic Description
1	shale
2	COAL (0.1m)
3	shale
4	COAL (1.6m)
5	carbonaceous shale
6	COAL (1.6m)
7	shale
8	COAL (0.1m)
9	carbonaceous shale
10	COAL (0.2m)
11	shale

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PR-Pine Pass 80(2)B

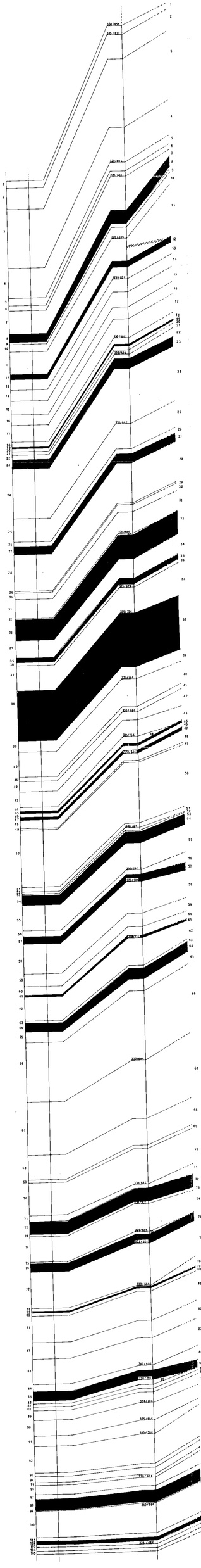
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION W 8

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No 10-8
DATE: MAY, 1981	REVISED:	DRAWING No: HF-79 H
To Accompany		



Unit	Lithologic Description
1	sandstone
2	shale
3	overburden
4	siltstone with interbeds of shale and coal stringers
5	siltstone
6	coaly shale
7	siltstone
8	COAL (1.1m)
9	mudstone
10	siltstone
11	sandstone; 0.03m fault breccia zone
12	COAL (0.7m)
13	shale
14	shale - with coal stringers
15	mudstone
16	siltstone
17	mudstone
18	sandstone
19	COAL (0.2m)
20	shale
21	sandstone
22	shale
23	COAL (1.2m)
24	sandstone
25	siltstone
26	shale
27	COAL (1.1m)
28	siltstone
29	sandstone
30	shale
31	sandstone
32	shale
33	COAL (2.8m)
34	shale
35	COAL (0.6m)
36	shale
37	sandstone
38	COAL (6.7m)
39	overburden
40	sandstone
41	shale
42	sandstone
43	mudstone
44	shale
45	COAL (0.3m)
46	shale
47	COAL (0.4m)
48	sandstone
49	shale
50	sandstone, fine grained
51	mudstone
52	sandstone
53	shale
54	COAL (1.3m)
55	shale
56	sandstone
57	COAL (1.0m)
58	sandstone, fine grained
59	overburden
60	carbonaceous shale
61	COAL (0.3m)
62	sandstone
63	shale
64	COAL (1.2m)
65	mudstone
66	sandstone, fine grained
67	siltstone
68	sandstone, fine grained
69	mudstone
70	sandstone
71	shale
72	COAL (1.7m)
73	shale
74	sandstone, fine grained
75	shale
76	COAL (1.1m)
77	sandstone, fine grained
78	shale
79	COAL (0.2m)
80	shale
81	sandstone, fine grained, rusty weathering
82	mudstone
83	sandstone, fine grained
84	shale with interbeds of siltstone
85	COAL (1.2m)
86	siltstone
87	shale
88	coal and shale
89	carbonaceous shale
90	siltstone
91	shale with interbeds of carbonaceous shale
92	sandstone, fine grained, rusty weathering
93	carbonaceous shale
94	sandstone, fine grained
95	carbonaceous shale
96	sandstone, fine grained
97	mudstone, silty
98	COAL (1.4m)
99	shale
100	sandstone, fine grained
101	shale
102	COAL (0.4m)
103	shale
104	carbonaceous shale with coal stringers
105	mudstone

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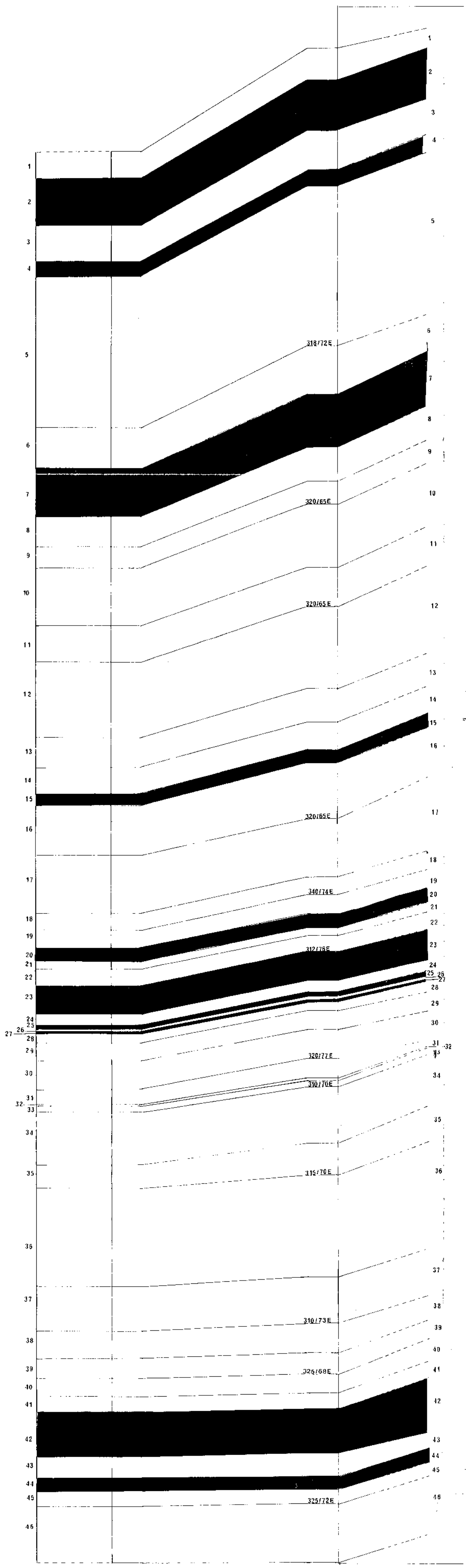
AR-Pine Pass 80(22)B

Crows Nest Resources Limited
EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION W20

AUTHOR: G.C. SINGHRAI	SCALE: 1:200	ENCLOSURE No: 10-20
DATE: MAY, 1981	REVISED:	DRAWING No: HF-79 R
To Accompany		



Unit	Lithologic Description
1	shale
2	COAL (3.1m)
3	mudstone
4	COAL - small shale partings (1.0m)
5	sandstone - fine grained
6	siltstone
7	COAL (3.2m)
8	shale
9	mudstone - silty
10	sandstone
11	carbonaceous shale
12	sandstone - fine grained
13	overburden
14	shale
15	COAL (0.8m)
16	mudstone - silty
17	sandstone
18	overburden
19	sandstone - plant debris
20	COAL (0.9m)
21	shale
22	siltstone
23	COAL - small shale partings (1.9m)
24	shale
25	COAL (0.3m)
26	shale
27	COAL (0.1m)
28	shale
29	sandstone
30	overburden
31	sandstone
32	shale
33	carbonaceous shale
34	shale
35	siltstone
36	sandstone - fine grained
37	mudstone
38	siltstone
39	mudstone
40	sandstone
41	shale
42	COAL (3.0m)
43	shale
44	COAL - with small amount shale (0.9m)
45	shale
46	sandstone - fine grained

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PR-Pine Pass 80(2)B

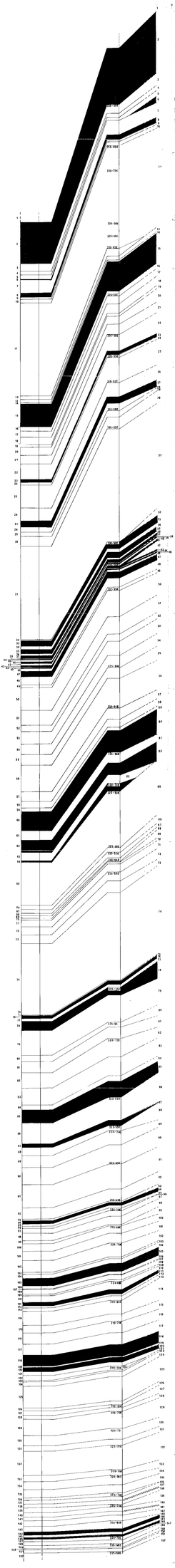
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION W 18

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 10-18
DATE: MAY, 1981	REVISED:	DRAWING No: HF-79 P
To Accompany		



Unit	Lithology Description
1	shale
2	COAL (6.7m) clean, no partings
3	shale
4	sandstone, fine grained
5	shale
6	COAL (0.1m)
7	shale
8	COAL (0.7m)
9	sandstone
10	carbonaceous coal with coal stringers
11	sandstone, fine grained, buff coloured
12	carbonaceous shale
13	sandstone
14	shale
15	COAL (3.8m)
16	carbonaceous shale
17	sandstone
18	interbedded shale and mudstone
19	sandstone, fine grained
20	interbedded shale and mudstone
21	sandstone, fine grained
22	interbedded shale and mudstone with coal stringers
23	COAL (0.5m)
24	siltstone
25	sandstone
26	carbonaceous shale with coal stringers
27	COAL (1.0m)
28	carbonaceous shale
29	sandstone
30	silty mudstone
31	sandstone, fine grained, cross bedded, plant debris
32	shale
33	COAL (0.9m)
34	shale
35	COAL (0.7m)
36	shale
37	COAL (1.5m)
38	shale
39	COAL (0.1m)
40	shale
41	COAL (0.3m)
42	shale
43	COAL (0.3m)
44	shale
45	COAL (0.1m)
46	shale
47	COAL (0.9m)
48	sandstone
49	carbonaceous shale with coal stringers
50	shale
51	siltstone
52	shale
53	siltstone
54	sandstone, fine grained
55	mudstone
56	sandstone, buff coloured
57	mudstone
58	siltstone
59	carbonaceous shale
60	COAL, clean (3.2m)
61	sandstone, fine grained
62	COAL (2.0m)
63	sandstone, fine grained
64	COAL (0.3m)
65	sandstone, fine grained
66	silty mudstone
67	carbonaceous shale with coal stringers
68	mudstone
69	sandstone
70	mudstone
71	siltstone
72	sandstone, fine grained, buff colour
73	silty mudstone
74	overburden
75	carbonaceous shale
76	COAL (0.5m)
77	shale
78	COAL (1.5m)
79	carbonaceous shale
80	siltstone
81	mudstone
82	siltstone
83	overburden
84	mudstone
85	COAL (2.1m)
86	shale, coal stringers
87	COAL, dirty (0.6m)
88	shale, coal stringers
89	sandstone, fine grained
90	sandstone, buff coloured, fine grained, plant debris
91	interbedded shale and mudstone with coal stringers
92	carbonaceous shale
93	mudstone
94	COAL (0.5m)
95	shale
96	coal shale
97	mudstone
98	shale
99	carbonaceous shale
100	mudstone
101	siltstone
102	sandstone, fine grained
103	shale
104	carbonaceous shale
105	COAL, dirty (1.2m)
106	coaly shale
107	carbonaceous shale
108	sandstone
109	carbonaceous shale
110	siltstone
111	COAL, dirty (0.6m)
112	carbonaceous shale
113	mudstone
114	siltstone
115	sandstone, buff coloured, fine grained
116	siltstone
117	shale
118	COAL (1.8m)
119	shale parting
120	COAL (0.7m)
121	mudstone
122	sandstone, fine grained
123	carbonaceous shale
124	siltstone
125	sandstone, fine grained, cut by minor fault
126	siltstone
127	sandstone, fine grained
128	shale
129	siltstone
130	sandstone
131	interbedded shale and mudstone
132	sandstone, fine grained, buff coloured
133	siltstone
134	shale, cut by minor fault
135	carbonaceous shale with coal stringers
136	sandstone, fine grained, cross bedded
137	carbonaceous shale
138	interbedded siltstone and mudstone, minor fault
139	sandstone
140	siltstone
141	mudstone
142	siltstone
143	mudstone
144	COAL (0.5m)
145	shale
146	COAL (0.3)
147	sandstone
148	siltstone
149	shale
150	carbonaceous shale
151	shale
152	sandstone

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PA-Pine Pass 15/16

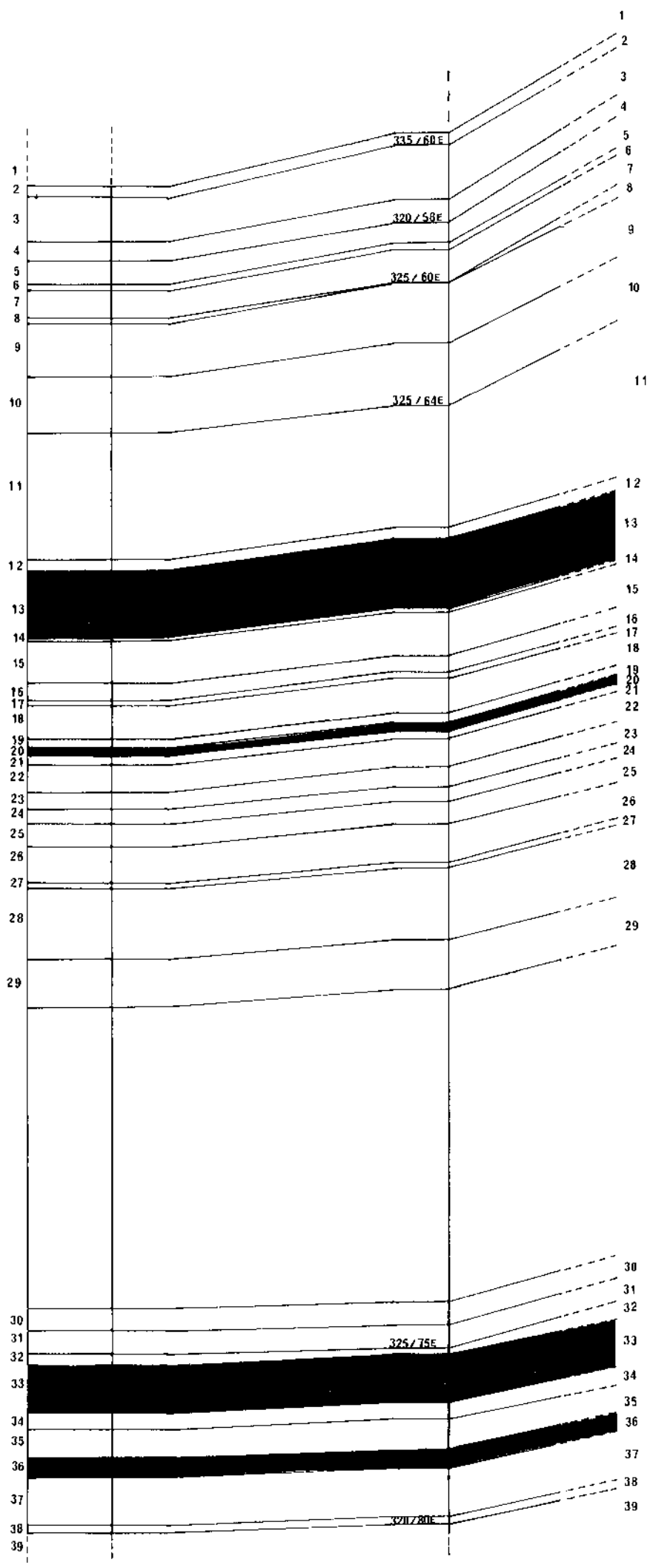
Crows Nest Resources Limited

EXPLORATION

PINE PASS
B.C.

MEASURED TRENCH SECTION W 15/16

AUTHOR: D.C. LINDRAY	SCALE: 1:200	ENCLOSURE No: 10-15	
DATE: MAY, 1981	REVISED:	Diagram No: HF-79 N	
To Accompany			



Unit	Lithologic Description
1	sandstone, fine grained, cross bedded, plant debris
2	carbonaceous shale
3	coaly shale with coal stringers
4	mudstone, silty, few coal lenses
5	coal with small amount of shale (0.8m)
6	carbonaceous shale
7	sandstone, fine grained, plant debris, cross bedded
8	mudstone
9	coaly shale with coal stringers
10	sandstone, fine grained, plant debris
11	mudstone and siltstone
12	shale, slightly carbonaceous
13	COAL (2.4m)
14	coaly shale
15	mudstone, silty
16	shale
17	coaly shale
18	interbedded shale and mudstone
19	carbonaceous shale
20	COAL (0.3m)
21	carbonaceous shale
22	sandstone, fine grained
23	carbonaceous shale
24	shale
25	sandstone, fine grained
26	mudstone
27	carbonaceous shale
28	coaly shale with coal stringers
29	mudstone
30	sandstone, fine grained
31	shale
32	mudstone
33	COAL (1.7m)
34	coaly shale
35	shale
36	COAL (0.7m)
37	shaly coal, interbedded with coaly shale (1.7m)
38	carbonaceous shale
39	sandstone, fine grained

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PR-Pine Pass 80(2)B

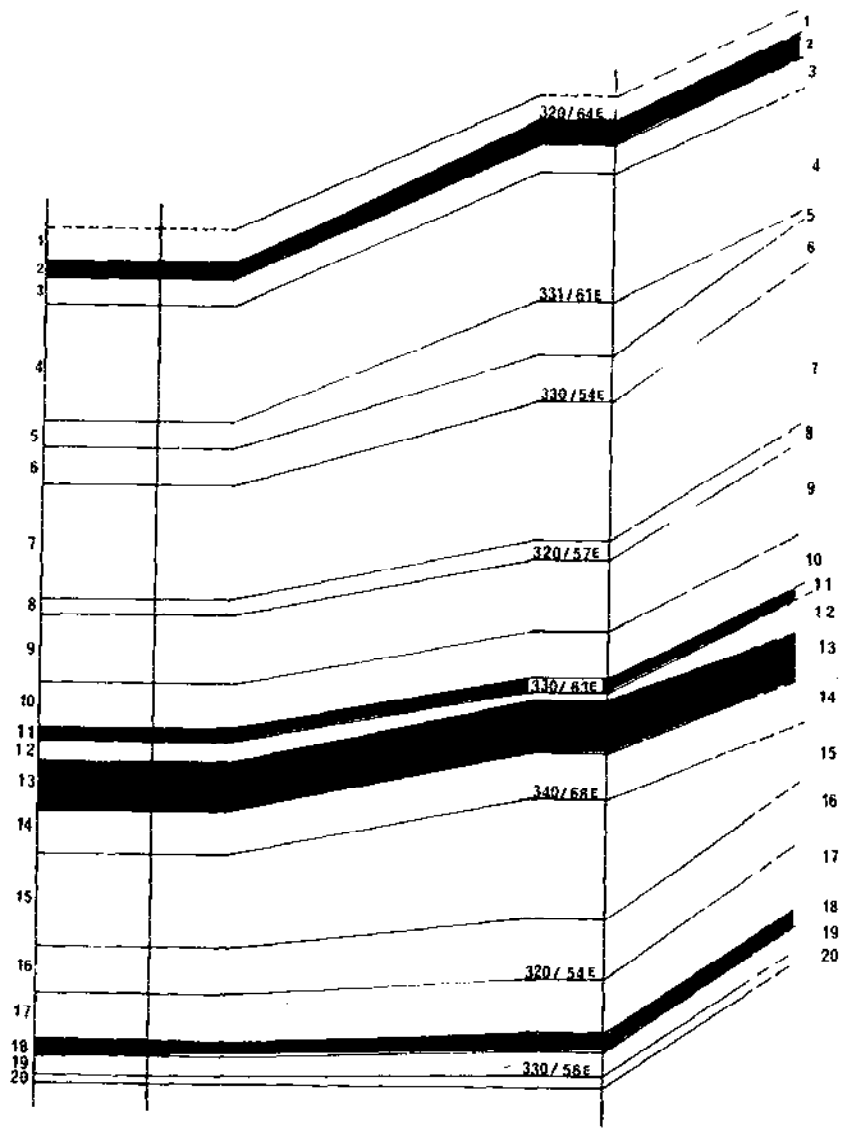
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION W14

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 10-14
DATE: MAY, 1981	REVISED:	DRAWING No: HF-79M
To Accompany		



Unit	Lithologic Description
1	sandstone, fine grained
2	COAL (0.5m)
3	carbonaceous shale
4	siltstone, coal stringers interbedded with mudstone
5	sandstone, fine grained
6	mudstone, interbeds of carby shale + coal stringers
7	sandstone, fine grained, cross bedded, plant debris
8	shale
9	sandstone, fine grained, interbeds of siltstone
10	shale with coal stringers
11	COAL (0.3m)
12	shale
13	COAL (1.3m)
14	carbonaceous shale
15	sandstone, fine grained
16	siltstone
17	shale
18	COAL (0.9m)
19	mudstone
20	sandstone, fine grained

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PR-Pine Pass 80(2)B

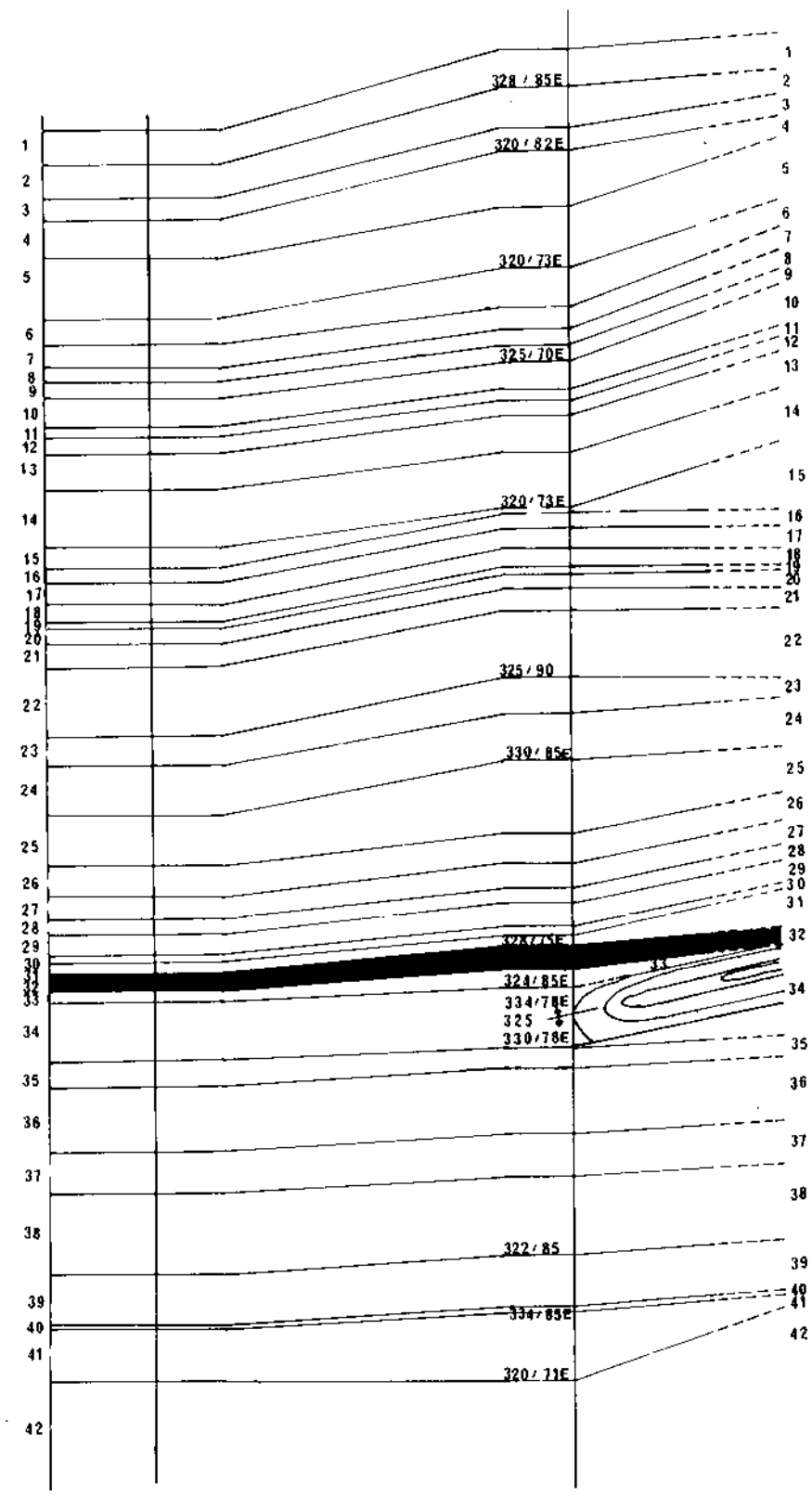
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION W 13

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 10-13
DATE: MAY, 1981	REVISED:	DRAWING No: HF-79 L
To Accompany		



Unit	Lithologic Description
1	mudstone
2	carbonaceous shale, interbeds of coaly shale and coal stringers
3	interbedded mudstone and shale
4	carbonaceous shale, interbeds of coaly shale
5	mudstone, with interbeds of sandstone
6	carbonaceous shale
7	COAL (0.6m)
8	mudstone
9	sandstone
10	mudstone
11	carbonaceous shale
12	COAL (0.4m)
13	mudstone
14	sandstone, fine grained
15	silty shale
16	COAL (0.4m)
17	carbonaceous shale, coal stringers
18	COAL (0.5m)
19	shale
20	COAL (0.4m)
21	shale
22	coaly shale, with few coal stringers
23	carbonaceous shale, with many thin coal stringers
24	sandstone, fine grained
25	siltstone
26	sandstone, fine grained
27	mudstone, with interbeds of siltstone
28	siltstone
29	shale
30	siltstone
31	shale
32	COAL, good, with thin shale partings (0.5m)
33	shale
34	coaly shale; possible structure, minor fold anticlinal axis
35	shale; thin coal stringers
36	sandstone, fine grained, thin interbeds of carbonaceous shale
37	siltstone
38	shale, interbeds of carbonaceous shale
39	mudstone, interbeds of carbonaceous shale
40	sandstone, fine grained
41	siltstone
42	mudstone

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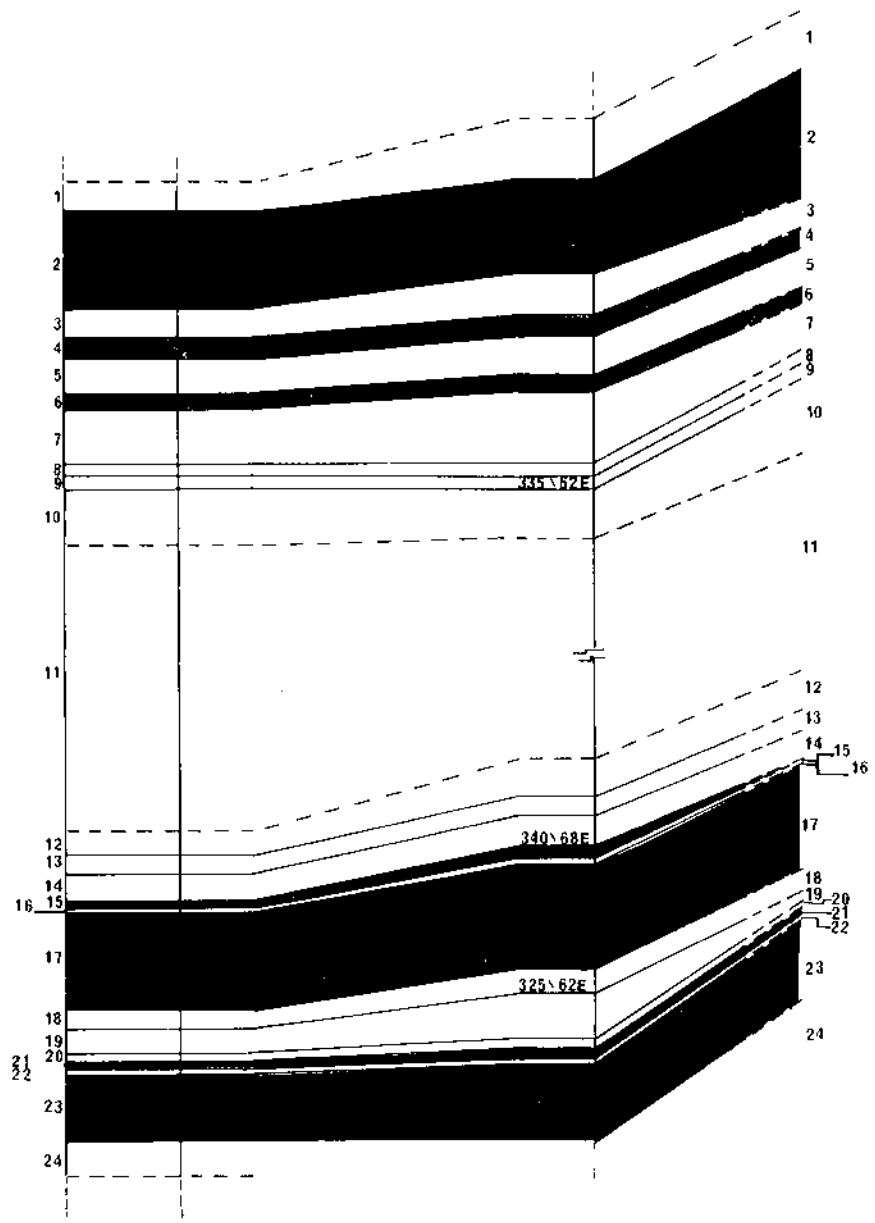
PR-Pine Pass 80(2)B

Crows Nest Resources Limited
EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION W12

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 10-12
DATE: MAY, 1981	REVISED:	DRAWING No: HF-79 T
To Accompany		



Unit	Lithologic Description
1	mudstone
2	COAL (2.5m)
3	shale
4	COAL 0.5m)
5	shale
6	COAL (0.4m)
7	carbonaceous shale, coal stringers
8	mudstone
9	sandstone, fine grained
10	shale
11	overburden
12	sandstone
13	mudstone
14	carbonaceous shale
15	COAL (0.2m)
16	shale
17	COAL, bright, clean (2.5m)
18	shale
19	carbonaceous shale, few coal stringers
20	shale
21	COAL (0.2m)
22	shale
23	COAL, good, clean (1.7m)
24	shale

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PR-Pine Pass 80(2)B

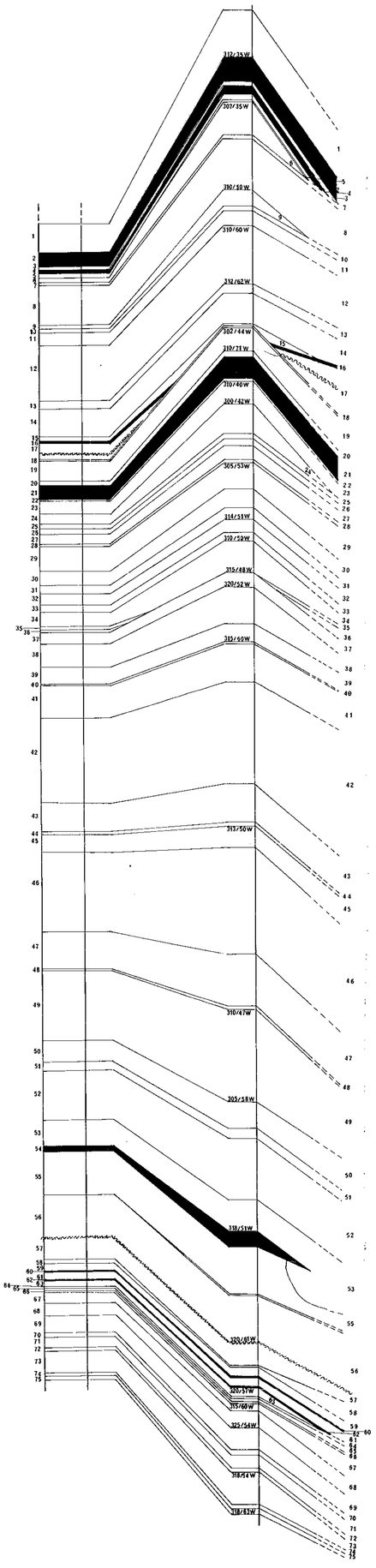
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION W11

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 10-11
DATE: MAY, 1981	REVISED:	DRAWING No: HF-79 K
To Accompany		



Unit	Lithologic Description
1	sandstone
2	COAL (1.0m)
3	carbonaceous shale
4	COAL (0.3m)
5	mudstone
6	mudstone
7	shale
8	sandstone, fractured, plant debris
9	shaly coal (0.2m)
10	carbonaceous shale
11	mudstone, silty
12	sandstone, fine grained, fractured
13	mudstone
14	sandstone, fine grained, cross bedded
15	mudstone
16	COAL (0.2m)
17	sandstone, fractured, fine grained, cross bedded
18	shale
19	shaly coal (1.4m)
20	coaly shale
21	COAL; clean, good (1.0m)
22	shale
23	sandstone, fine grained, cross bedded
24	carbonaceous shale, coal stringers
25	mudstone
26	coaly shale
27	shaly coal (0.6m)
28	shale
29	siltstone, cross bedded
30	sandstone, fine grained
31	siltstone, fractured
32	carbonaceous shale, fissile
33	mudstone, plant debris
34	sandstone, fine-medium grained, rusty weathering
35	mudstone, silty
36	shale, fissile
37	mudstone
38	interbedded shale and mudstone
39	mudstone, concretions
40	sandstone, fine grained, cross bedded
41	mudstone, fissile, brown to grey
42	overburden
43	sandstone, fine grained, cross bedded
44	mudstone, coal stringers
45	siltstone, minor laminations
46	sandstone and overburden
47	sandstone, thick and thin laminae, medium grained
48	sandstone
49	sandstone, medium grained, cross bedded, fractured
50	shale, fissile
51	sandstone, medium grained, cross bedded, coaly
52	overburden
53	shale
54	COAL (0.4m)
55	mudstone and coaly shale
56	mudstone, blocky
57	mudstone, minor coals
58	sandstone, fine grained
59	coaly shale
60	COAL (0.1m)
61	coaly shale
62	COAL (0.1m)
63	mudstone
64	shale
65	mudstone
66	sandstone, medium grained
67	mudstone, shaly, carbonaceous
68	mudstone, massive
69	sandstone, cross bedded
70	mudstone
71	sandstone, fine grained
72	mudstone
73	sandstone, fine grained
74	shale
75	sandstone, fine grained, cross bedded, plant debris

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PR-Pine Pass 80(2)B

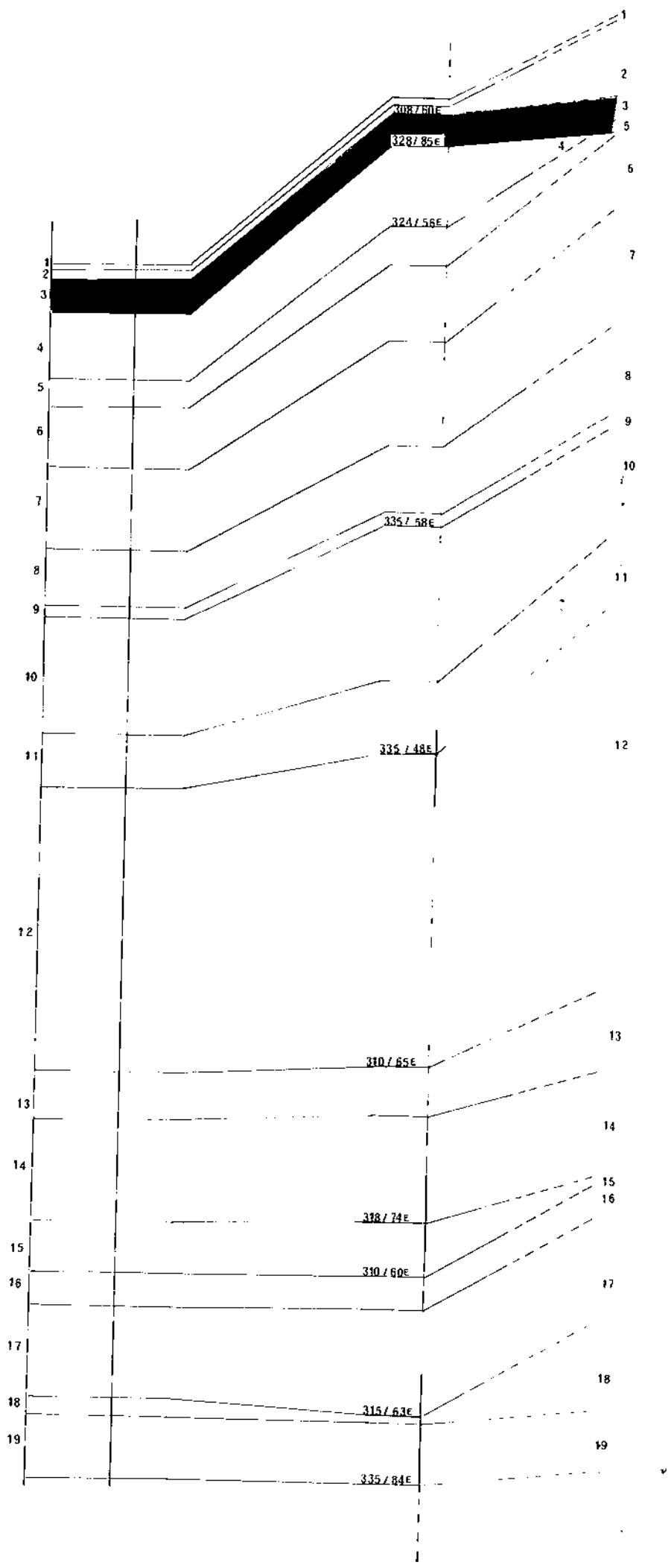
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION W6

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 10-6
DATE: MAY, 1981	REVISED:	DRAWING No: HF-79 F
To Accompany		



Unit	Lithologic Description
1	sandstone, fine grained
2	carbonaceous shale with minor coal stringers
3	coal, few shale partings, bright to dull (1.2m)
4	carbonaceous shale with interbeds of mudstone and thin coal stringers
5	mudstone
6	shale with interbeds of mudstone and minor coals
7	mudstone, plant debris
8	fine grained sandstone
9	carbonaceous shale with minor coals
10	silty mudstone
11	interbedded carbonaceous shale and mudstone with occasional coal stringers
12	mudstone, with coaly stringers
13	shale, thin bands of carby shale
14	sandstone, fine grained
15	mudstone
16	carbonaceous shale
17	sandstone, fine grained
18	shale, fissile, carby in places, dark grey

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PR-Pine Pass 80(2)A

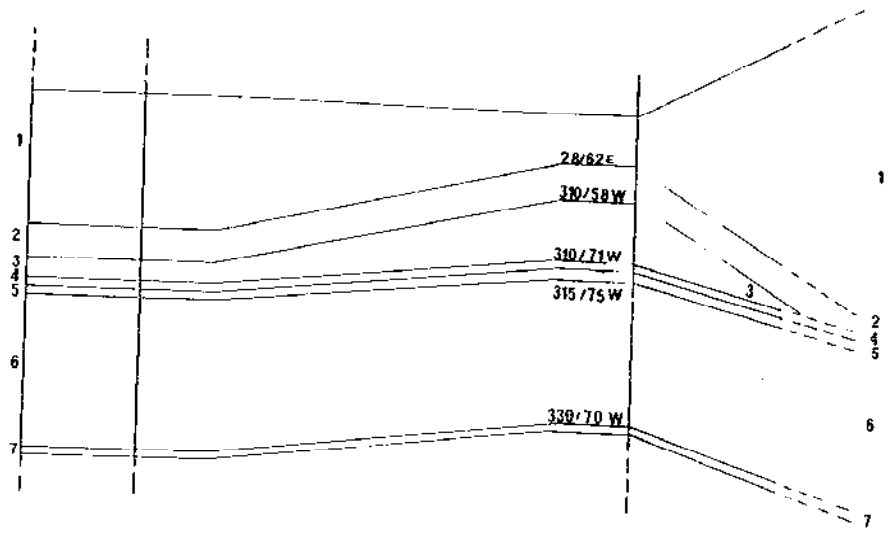
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION W 5

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 10-5
DATE: MAY, 1981	REVISED:	DRAWING No: HF-79 E
To Accompany		



Unit	Lithologic Description
1	siltstone, dark grey
2	sandstone, very fine grained
3	shale
4	mudstone
5	sandstone, fine grained
6	shale, carbonaceous, dark grey, few coaly stringers
7	mudstone

PR Pine Pass 80(2)B

Crows Nest Resources Limited

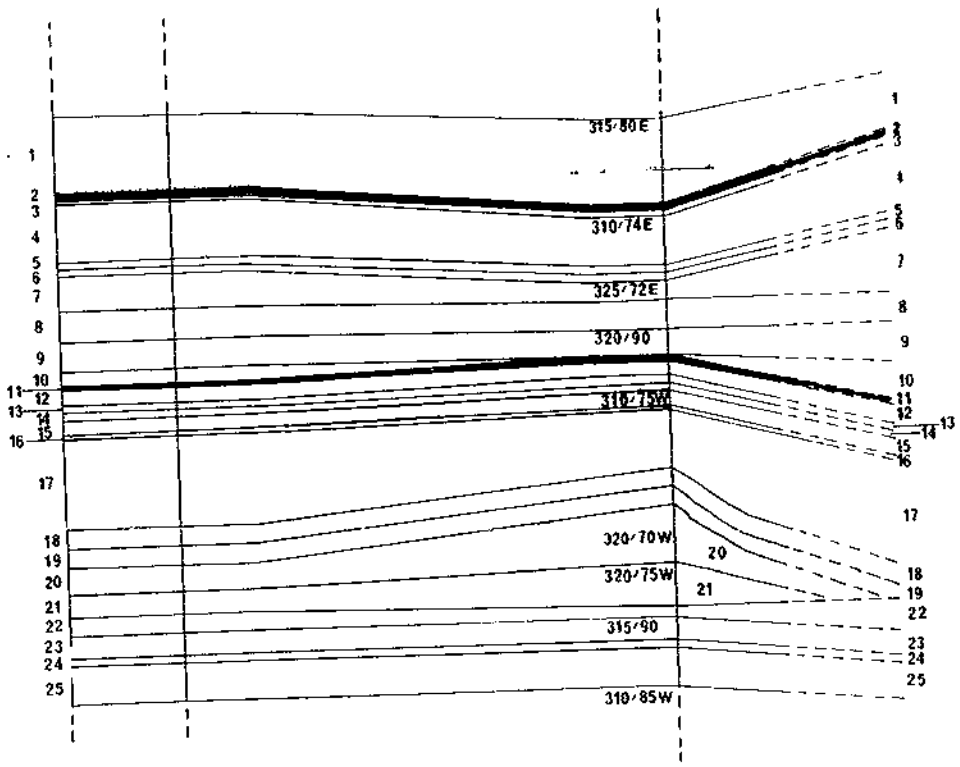
EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION W 4

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 10-4
DATE: MAY, 1981	REVISED:	DRAWING No: HF-79 D
To Accompany		

589



Unit	Lithology Description
1	mudstone, coal lenses, plant debris, coal stringers
2	COAL (0.2m)
3	carbonaceous shale
4	mudstone, plant debris
5	coaly shale
6	shale
7	mudstone, ripple marks, fractures, concretions
8	carbonaceous shale
9	mudstone, iron stained concretions
10	carbonaceous shale
11	COAL (0.2m)
12	carbonaceous shale
13	shaly coal (0.2m)
14	shale
15	sandstone, fine grained, cross bedded, plant material
16	carbonaceous shale
17	mudstone, grey, coal lenses
18	shaly coal (0.5m)
19	carbonaceous shale, coal stringers
20	sandstone, fine grained, cross bedded, plant material
21	mudstone, plant material
22	carbonaceous shale, coal stringers
23	mudstone, plant debris
24	coaly shale
25	siltstone

589 PR-Pine Pass 80(2)B

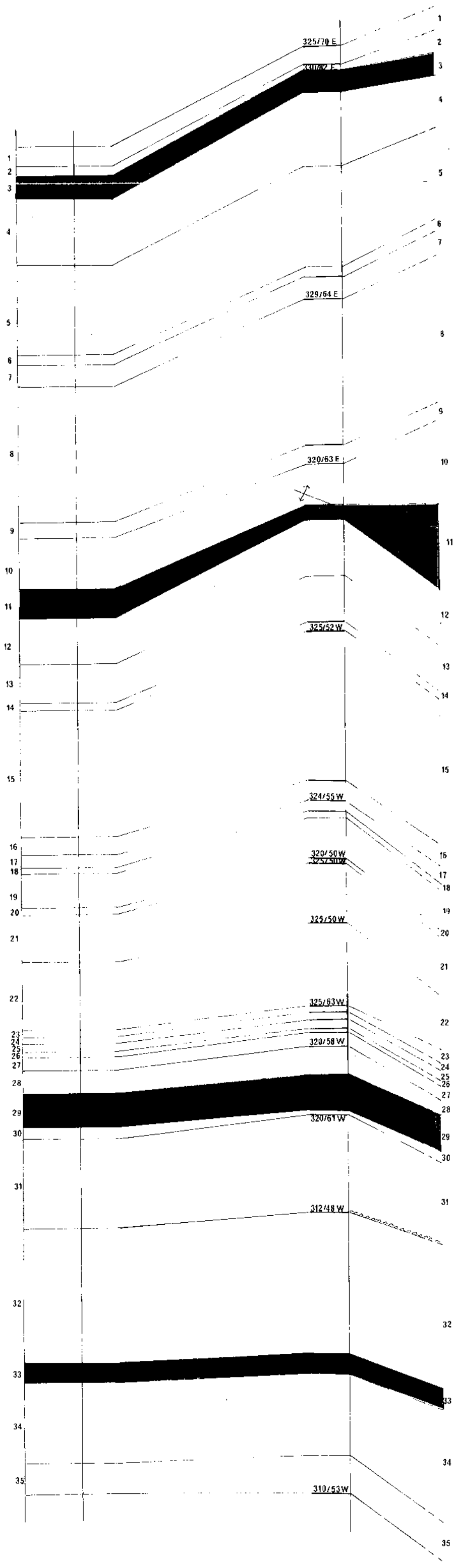
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION W3

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 10-3
DATE: MAY, 1981	REVISED:	DRAWING No: HF-79C
To Accompany		



Unit	Lithologic Description
1	sandy siltstone
2	shale
3	COAL (1.2m)
4	sandstone, flaggy
5	sandstone
6	shale
7	sandstone
8	overburden
9	sandstone
10	carbonaceous shale
11	COAL (1.5m)
12	carbonaceous shale
13	sandstone
14	carbonaceous shale
15	sandstone, flaggy, fine grained
16	shale
17	sandstone
18	shale
19	sandstone, fine grained
20	shale
21	sandstone, fine grained
22	interbedded sandstone and siltstone
23	sandstone, fine grained
24	shale
25	sandstone, fine grained
26	carbonaceous shale
27	sandstone, fine grained
28	carbonaceous shale, with coaly stringers
29	COAL (1.7m)
30	carbonaceous shale
31	sandstone, fine grained
32	overburden
33	COAL bloom (1.0m)
34	overburden
35	sandstone, fine grained, cross bedding

589 PR-Pine Pass 80/22 B

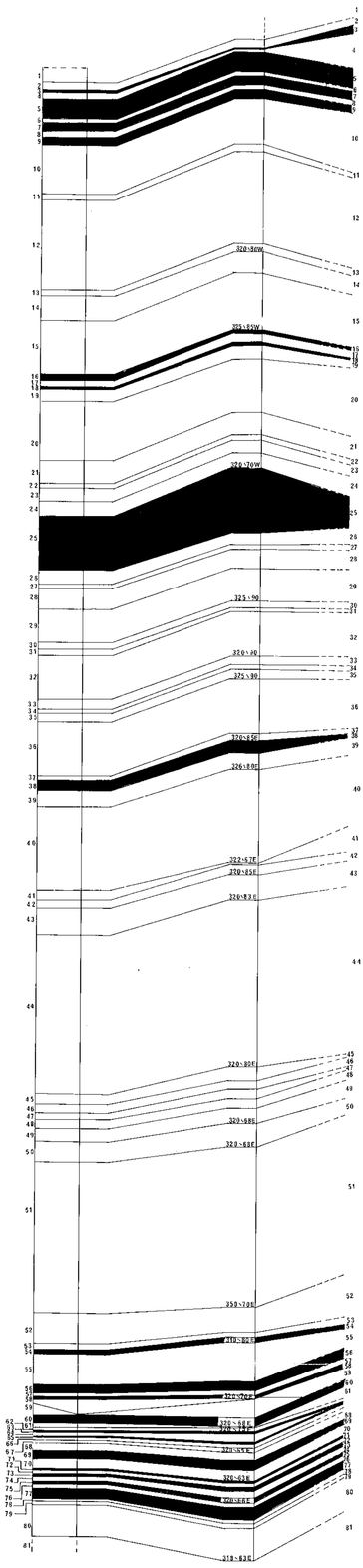
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION 99m SW of W2

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 10-2A
DATE: MAY, 1981	REVISED:	DRAWING No: HF-79 B
To Accompany		



Unit	Lithologic Description
1	shale
2	carbonaceous shale
3	COAL (0.1m)
4	carbonaceous shale
5	COAL (1.3m)
6	shale
7	COAL (0.6m)
8	shale
9	COAL (0.6m)
10	sandstone, fine grained
11	shale
12	sandstone, fine grained
13	siltstone
14	sandstone, fine grained
15	shale
16	COAL (0.4m)
17	coaly shale
18	COAL (0.2m)
19	carbonaceous shale, coal stringers
20	sandstone, fine grained, cross bedded
21	shale
22	siltstone
23	mudstone
24	carbonaceous shale
25	COAL, clean, good, plant fragments (3.6m)
26	coaly shale
27	carbonaceous shale
28	silty mudstone
29	sandstone, fine grained
30	shale
31	carbonaceous shale, coaly
32	sandstone, fine grained
33	shale
34	coaly shale, coal stringers
35	siltstone
36	silty mudstone
37	shale
38	COAL, shale and sandstone partings (0.6m)
39	sandstone, fine grained, cross bedded
40	interbedded shale and fine grained sandstone
41	sandstone, fine grained
42	shale
43	siltstone
44	sandstone, fine grained, cross bedded grades to a siltstone, back to fine grained sandstone structure: possible fault zone, sandstone faulted over a siltstone with interbedded coal unit, fault occurs near the base of the sandstone unit
45	sandstone, fine grained
46	shale
47	sandstone, structure: anticlinal axis
48	shale
49	siltstone
50	shale, coal stringers
51	sandstone, fine grained, cross bedded, very thin shale interbeds
52	shale
53	coaly shale
54	COAL (0.3m)
55	siltstone
56	COAL, clean (0.6m)
57	carbonaceous shale
58	COAL (0.2m)
59	shaly coal overlying siltstone (1.0m)
60	COAL (0.5m)
61	shale, coal stringers
62	carbonaceous shale
63	COAL (0.1m)
64	shale
65	COAL (0.1m)
66	shale
67	coaly shale
68	shale
69	COAL (0.5m)
70	carbonaceous shale
71	COAL, dull (0.1m)
72	shale
73	COAL, dirty (0.2m)
74	shale
75	COAL (0.2m)
76	carbonaceous shale
77	COAL, clean, good (0.7m)
78	carbonaceous shale
79	siltstone, plant fragments
80	interbedded mudstone and siltstone
81	sandstone fine grained, cross bedded plant debris

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PR-Pine Pass 82J/2A

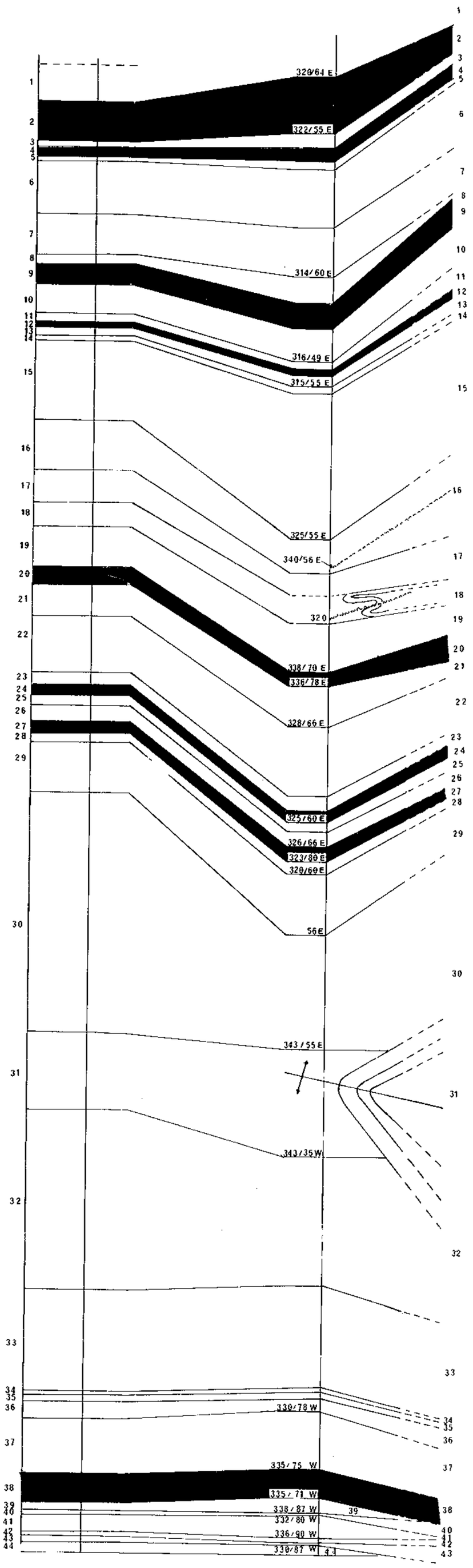
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION W2

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No.: 10-2
DATE: MAY, 1981	REVISED:	DRAWING No: HF-79A
To Accompany		



Unit	Lithologic Description
1	mudstone, fissile
2	COAL, clean, few shale partings (2.0m)
3	shale
4	COAL, clean (0.5m)
5	mudstone
6	sandstone, fine grained
7	mudstone
8	interbedded mudstone and shale
9	COAL, good, clean, shale parting (1.0m)
10	sandstone, fine grained, plant debris
11	shale
12	COAL (0.3m)
13	mudstone
14	sandstone
15	overburden
16	sandstone, fine grained, calcite and slickensides along fault
17	silty shale
18	interbedded shale and siltstone, folded
19	mudstone, hematite staining
20	COAL (0.9m)
21	interbedded minor coals and mudstone
22	sandy siltstone, fine grained, cross bedded
23	mudstone with coal stringers
24	COAL, clean (0.5m)
25	interbedded coals and mudstone
26	mudstone, shaly in places
27	COAL, dull (0.6m)
28	coaly shale
29	interbedded sandstone and shale
30	overburden
31	interbedded sandstone and shale
32	overburden
33	interbedded sandstone and siltstone, cross laminated
34	shaly coal (0.2m)
35	carbonaceous shale
36	shaly coal (0.8m)
37	siltstone, plant debris
38	COAL, shaly, dirty (1.4m)
39	shale
40	coaly shale
41	mudstone
42	coaly shale
43	shale, fissile
44	mudstone

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AR-Pine Pass 80(2)B

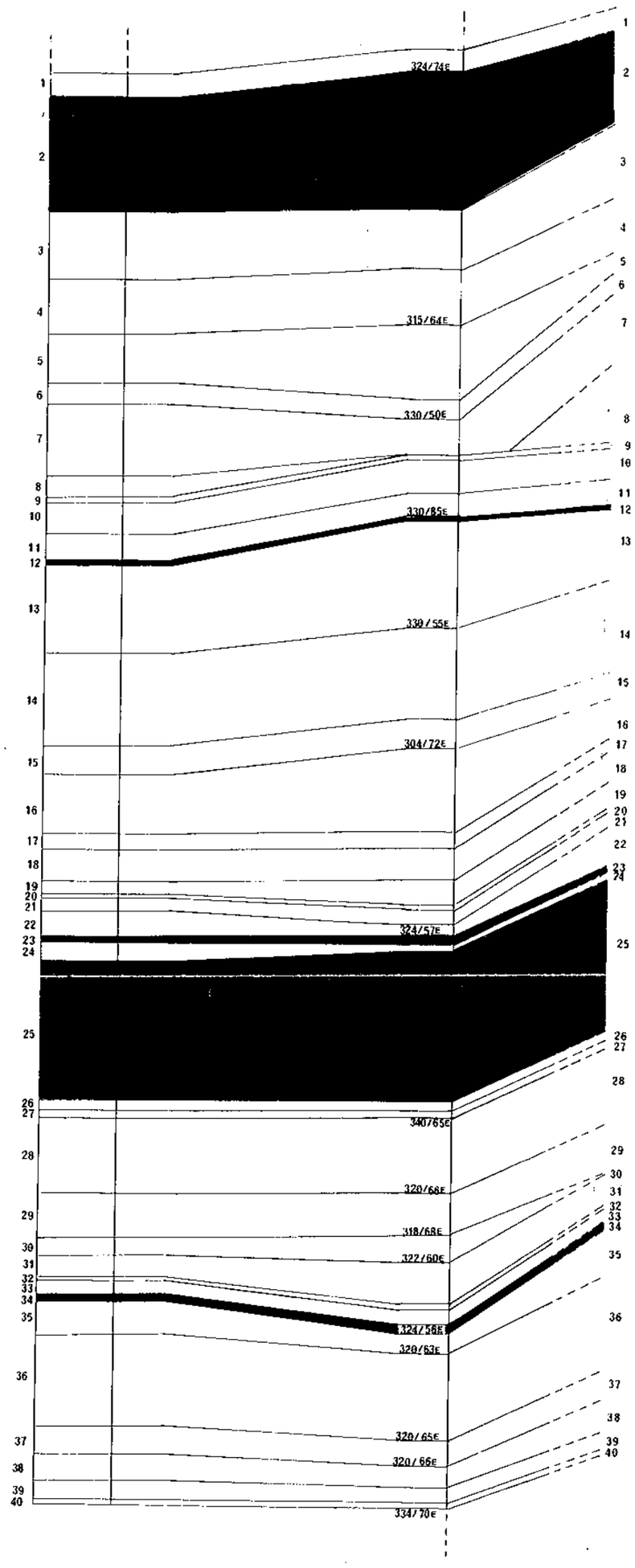
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION W1

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 10-1
DATE: MAY, 1981	REVISED:	DRAWING No: HF-79
To Accompany		



Unit	Lithologic Description
1	shale
2	COAL, Seam 78, shale partings (4.5m)
3	carbonaceous shale, few coal stringers
4	siltstone
5	siltstone
6	sandstone, fine grained
7	siltstone
8	sandstone, fine grained
9	shale
10	shaly coal (1.2m)
11	carbonaceous shale
12	COAL (0.2m)
13	siltstone, interbeds of carbonaceous shale
14	mudstone, interbeds of carbonaceous shale
15	siltstone
16	fissile shale
17	sandstone, fine grained
18	siltstone
19	carbonaceous shale
20	siltstone
21	carbonaceous shale
22	siltstone
23	COAL (0.25m)
24	shale
25	COAL, seam 76, minor shale interbeds and shale partings (5.4m)
26	shaly coal (0.37m)
27	carbonaceous shale
28	siltstone, minor coal stringers
29	sandstone, fine grained, dark grey
30	carbonaceous shale
31	silty mudstone
32	carbonaceous shale
33	sandstone, fine grained
34	COAL (0.3m)
35	siltstone
36	shale, coal stringer
37	sandstone, fine grained
38	carbonaceous shale
39	siltstone
40	sandstone, fine grained

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AR - Pine Pass 80(2)B

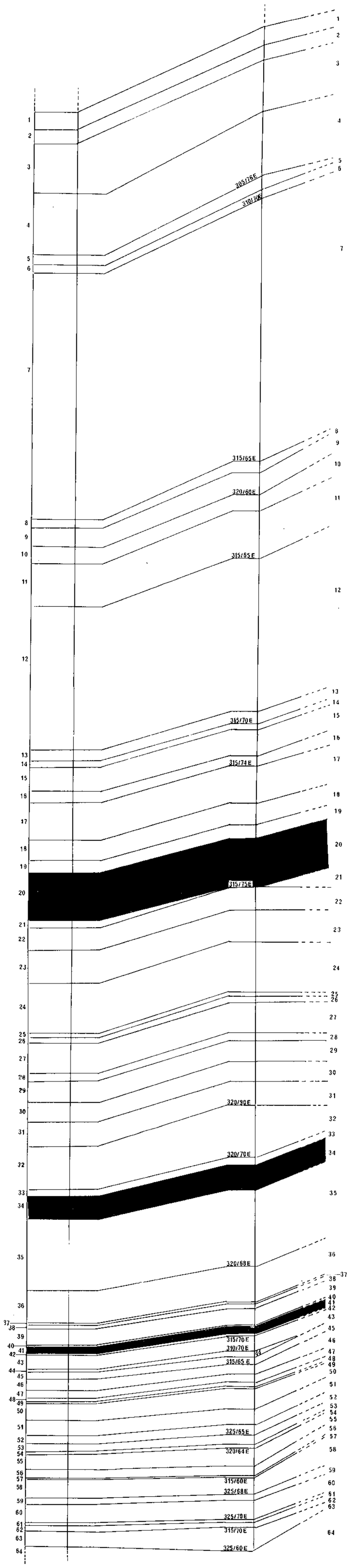
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION W7

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 10-7
DATE: MAY, 1981	REVISED:	DRAWING No: HF-79G
To Accompany		



Unit	Lithologic Description
1	shaly coal (1.2m)
2	mudstone
3	overburden
4	siltstone
5	shale
6	coaly shale
7	interbeds of siltstone & shale with coal stringers
8	carbonaceous shale
9	sandstone, very fine grained
10	siltstone
11	mudstone
12	siltstone
13	shale
14	coaly shale
15	sandstone, fine grained
16	carbonaceous shale, plant remnants
17	sandstone, very fine grained
18	mudstone
19	carbonaceous shale
20	COAL, dirty with 3 cm shale bands (3.3m)
21	carbonaceous shale
22	siltstone
23	sandstone with minor coal stringers
24	shale with interbeds of siltsone
25	siltstone
26	carbonaceous shale
27	siltstone
28	shale
29	shaly coal (1.4m)
30	carbonaceous shale
31	siltstone
32	mudstone, silty
33	coaly shale
34	COAL (1.6m)
35	overburden
36	sandstone, fine grained
37	carbonaceous shale
38	shale
39	sandstone with interbeds of mudstone
40	carbonaceous shale
41	COAL (0.5m)
42	carbonaceous shale
43	sandstone, fine grained
44	shale
45	sandstone, very fine grained
46	mudstone
47	carbonaceous shale with coal stringers
48	shaly coal (0.3m)
49	carbonaceous shale
50	sandstone with thin shale partings
51	mudstone, plant material
52	sandstone, very fine grained, minor laminations
53	siltstone, minor cross laminations
54	shale
55	mudstone, silty
56	shale
57	carbonaceous shale
58	sandstone, fine grained, massive
59	shale
60	sandstone, fine grained, duff weathering
61	mudstone
62	sandstone, fine grained, cross bedding, plant material
63	siltstone with coaly shale
64	sandstone

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PA - Pine Pass 80(2) 8

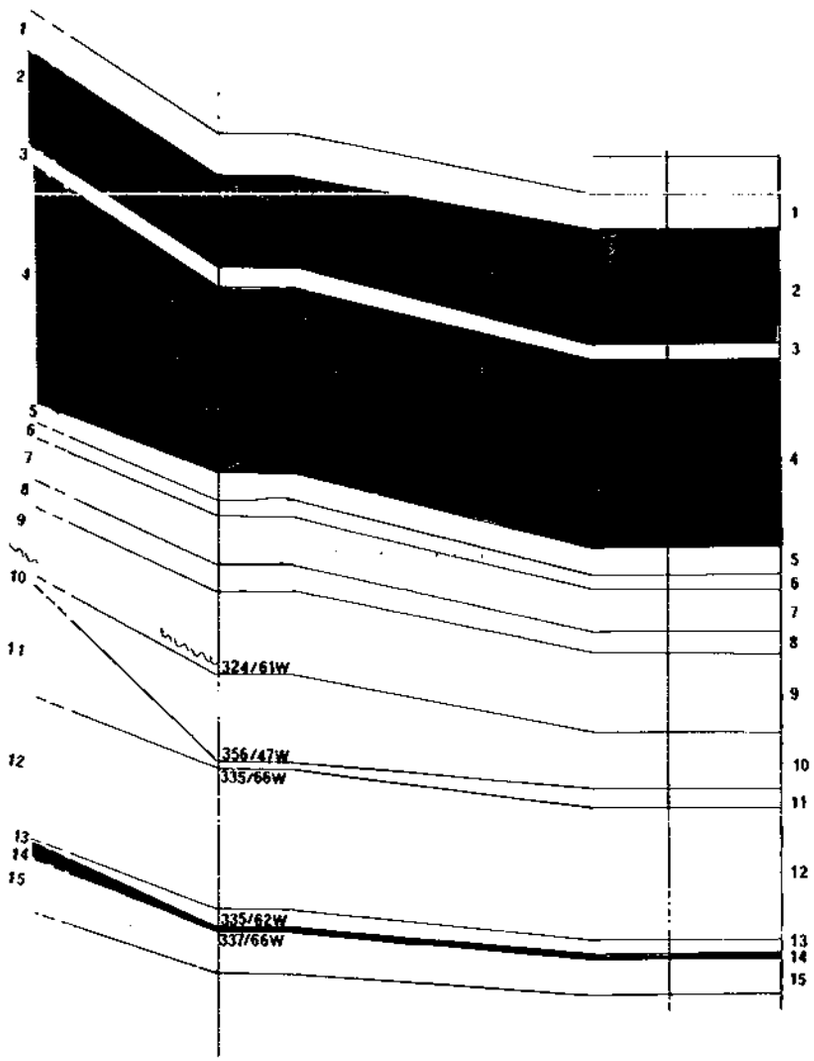
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION W21

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 10-81
DATE: MAY, 1981	REVISED:	DRAWING No: HF-79 S
To Accompany		



Unit	Lithologic Description
1	shale, carbonaceous, coaly in places
2	COAL, dirty (2.1m)
3	carbonaceous shale
4	COAL, good, clean, small amounts of shale (5.0m)
5	interbedded shale and coal
6	mudstone, some carbonaceous shale
7	silty mudstone, some interbeds of fine grained sandstone
8	silstone, plant debris
9	sandstone, fine grained, fractured, possible thrust fault?
10	sandstone, course grained, cross bedded
11	shaly coal (0.5m)
12	sandstone, fine grained, grades eastward to siltstone, plant debris
13	shale
14	COAL (0.2m)
15	siltstone

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BR-Pine Pass 80(2)B

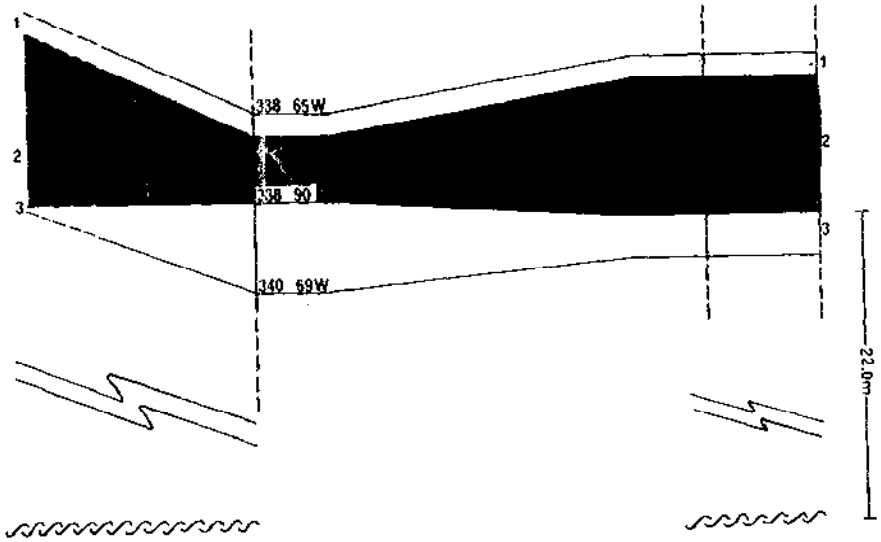
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION E1

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 14-1
DATE: MAY, 1981	REVISED:	DRAWING No: HJ-81
To Accompany		



Unit	Lithologic Description
1	mudstone
2	COAL (3.1m)
3	shale - carbonaceous, fissile

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PR - Pine Pass 82(2)B

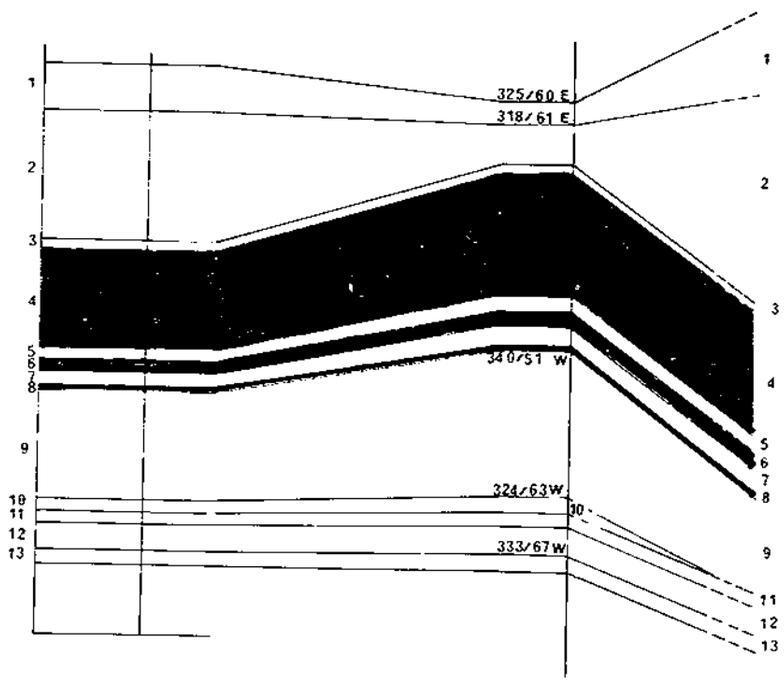
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION E 3

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 11-3
DATE: MAY, 1981	REVISED:	DRAWING No: HJ-81B
To Accompany		



Unit	Lithologic Description
1	sandstone, fine grained, cross bedded
2	mudstone, grey, fissile, few coal stringers interbeds of shale
3	carbonaceous shale
4	COAL, good, clean, a little shaly in places (2.8m)
5	carbonaceous shale
6	COAL (0.3m)
7	carbonaceous shale
8	COAL (0.1m)
9	siltstone, highly fractured
10	shale
11	COAL (0.3m)
12	mudstone, slickensides and calcite lined
13	sandstone, medium grained, cross bedded

AR-Pine Pass 80(2).8

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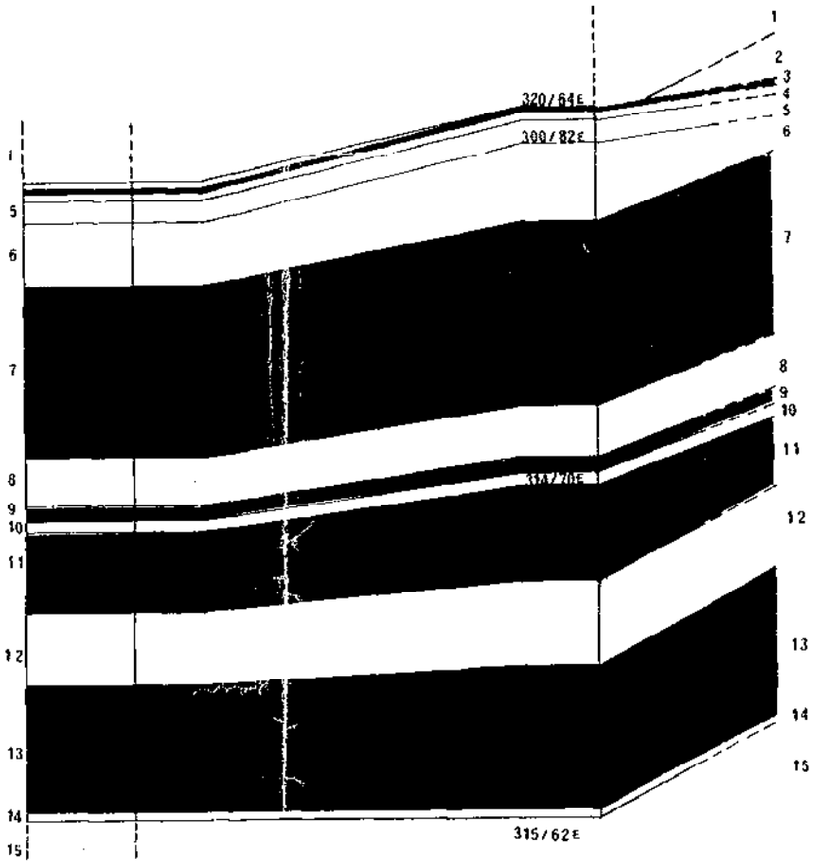
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION E 2

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 11-2
DATE: MAY, 1981	REVISED:	DRAWING No: HJ-81A
To Accompany		



Unit	Lithologic Description
1	siltstone
2	mudstone
3	COAL (0.1m)
4	mudstone
5	shaly coal (0.6m)
6	carbonaceous shale
7	COAL, clean, hard, thin shaly parting (4.7m)
8	carbonaceous mudstone
9	COAL (0.4m)
10	mudstone
11	COAL, clean (2.2m)
12	mudstone
13	COAL, good, clean (3.5m)
14	carbonaceous shale
15	sandstone, fine grained

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Pine Pass 80(2)B

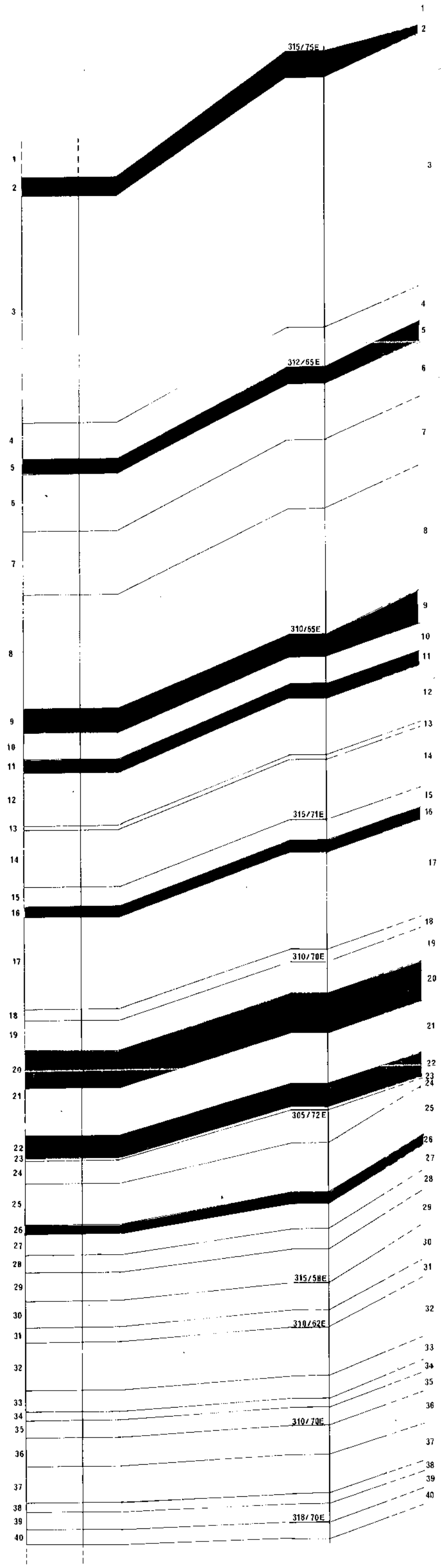
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION E 5

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 11-5
DATE: MAY, 1981	REVISED:	DRAWING No: HJ-81D
To Accompany		



Unit	Lithologic Description
1	sandstone
2	COAL, dirty (1.0m)
3	interbedded shale and mudstone
4	mudstone
5	COAL, very dirty (0.8m)
6	interbedded carbonaceous shale and mudstone
7	sandstone, very fine grained
8	interbedded shale and mudstone with coal stringers
9	COAL (1.3m)
10	carbonaceous shale and mudstone
11	COAL (0.7m)
12	siltstone
13	carbonaceous shale
14	siltstone
15	carbonaceous shale
16	COAL, dirty (0.6m)
17	interbeds of shale and siltstone
18	siltstone
19	shale
20	COAL, dirty (2.0m)
21	mudstone with shale interbeds
22	COAL (1.2m)
23	mudstone
24	sandstone, fine grained
25	carbonaceous shale
26	COAL (0.5m)
27	siltstone
28	shale
29	carbonaceous shale
30	sandstone, fine grained
31	siltstone
32	shale with coal stringers
33	sandstone, fine grained
34	mudstone
35	coaly shale
36	sandstone, very fine grained
37	mudstone
38	sandstone, very fine grained
39	carbonaceous shale
40	siltstone

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PR-Pine Pass 80(2) B

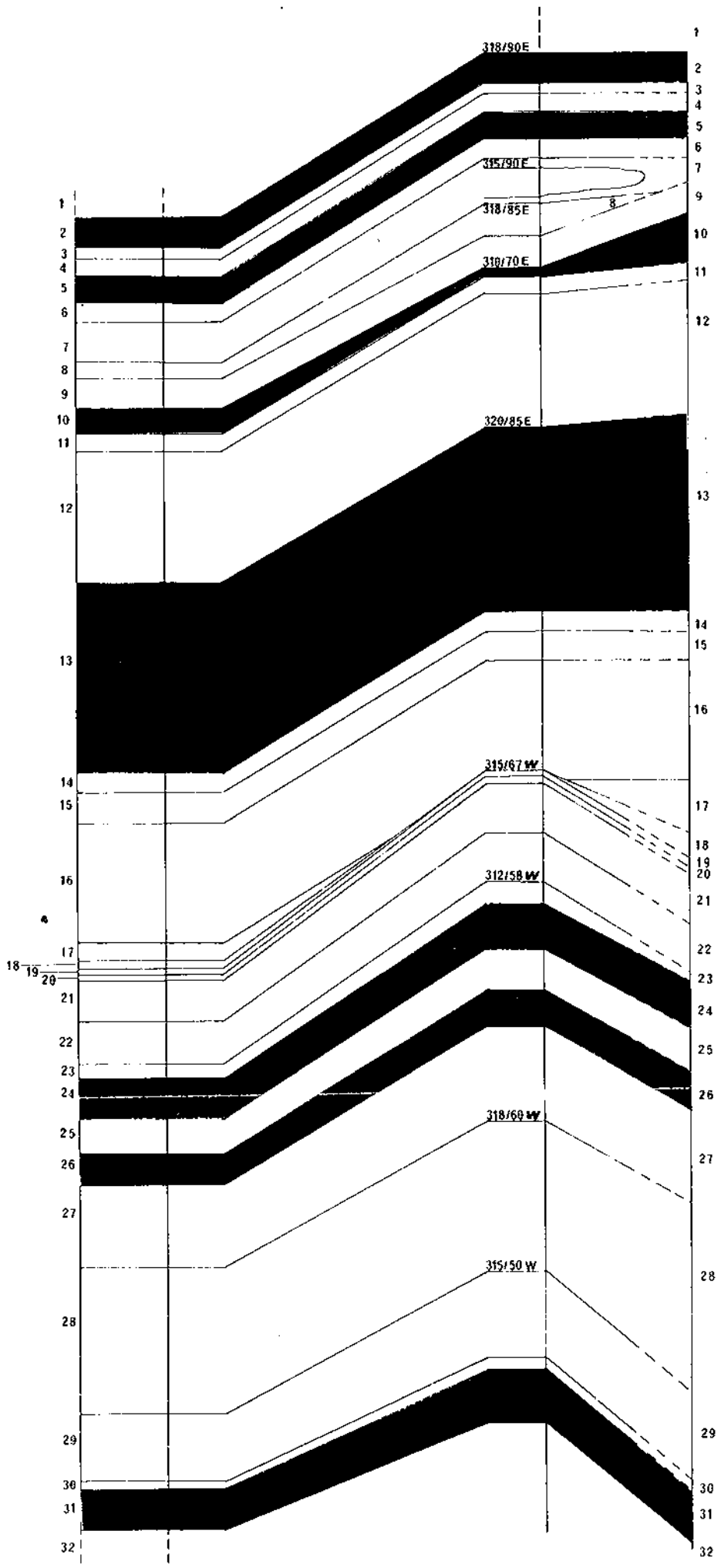
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION E 4

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 11-4
DATE: MAY, 1981	REVISED:	DRAWING No: HJ-81C
To Accompany		



Unit	Lithologic Description
1	shale
2	COAL (1.0m)
3	mudstone
4	siltstone
5	COAL, shaly in places (0.9m)
6	mudstone
7	shale, with mudstone wedge, possible minor fold; synclinal axis
8	siltstone
9	mudstone, minor coal
10	COAL, clean (0.9m)
11	siltstone
12	interbedded shale and mudstone
13	COAL, clean, some shale lenses (6.5m)
14	shale
15	shaly coal (1.0m)
16	interbedded shale and mudstone
17	shale
18	siltstone
19	shaly coal (0.2m)
20	shale
21	mudstone
22	shaly coal (1.4m)
23	shale
24	COAL, dirty (1.4m)
25	shale
26	COAL, clean (1.1m)
27	interbedded siltstone and shale
28	overburden
29	siltstone
30	mudstone
31	COAL, dirty (1.4m)
32	mudstone

589

PR-Pine Pass 80(2)B

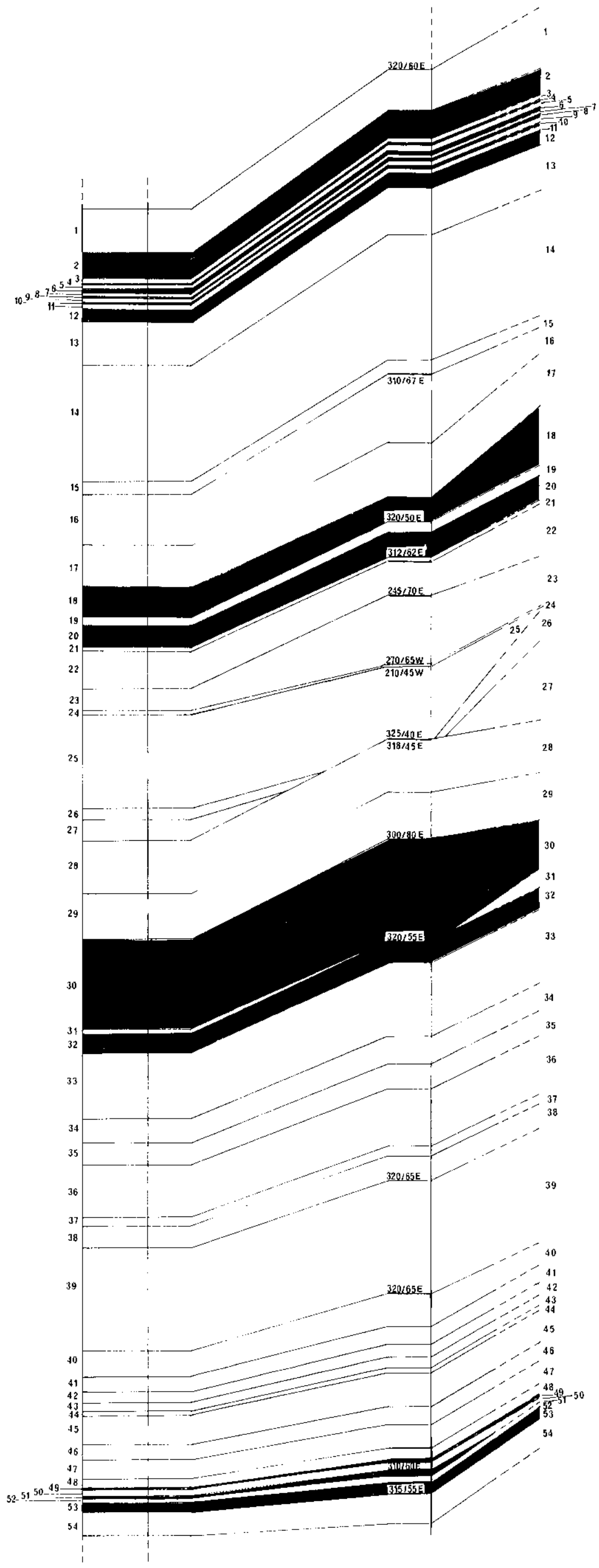
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION E 6

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 11-6
DATE: MAY, 1981	REVISED:	DRAWING No: HJ-81 E
To Accompany		



Unit	Lithologic Description
1	mudstone
2	COAL (1.2m)
3	shale
4	COAL (0.1m)
5	shale
6	COAL (0.2m)
7	shale
8	COAL (0.1m)
9	shale
10	COAL (0.1m)
11	carbonaceous shale
12	COAL (0.6m)
13	carbonaceous shale
14	interbedded shale and mudstone
15	siltstone
16	carbonaceous shale
17	mudstone
18	COAL (1.4m)
19	shale
20	COAL (1.0m)
21	mudstone, limonite staining
22	siltstone
23	shale
24	mudstone
25	shale
26	carbonaceous shale
27	sandstone, very fine grained
28	carbonaceous shale, minor coals
29	mudstone
30	COAL, dirty, few shale partings (4.1m)
31	shale
32	COAL (0.9m)
33	overburden
34	mudstone
35	overburden
36	interbedded shale and mudstone
37	mudstone
38	coaly shale
39	siltstone
40	interbedded shale and mudstone
41	carbonaceous shale
42	sandstone, very fine grained
43	shale
44	carbonaceous mudstone
45	shaly coal
46	carbonaceous shale
47	shaly coal
48	carbonaceous shale
49	COAL (0.1m)
50	coaly shale
51	COAL (0.1m)
52	carbonaceous shale
53	COAL, dirty (0.4m)
54	shale

589

PR - Pine Pass 80(2)B

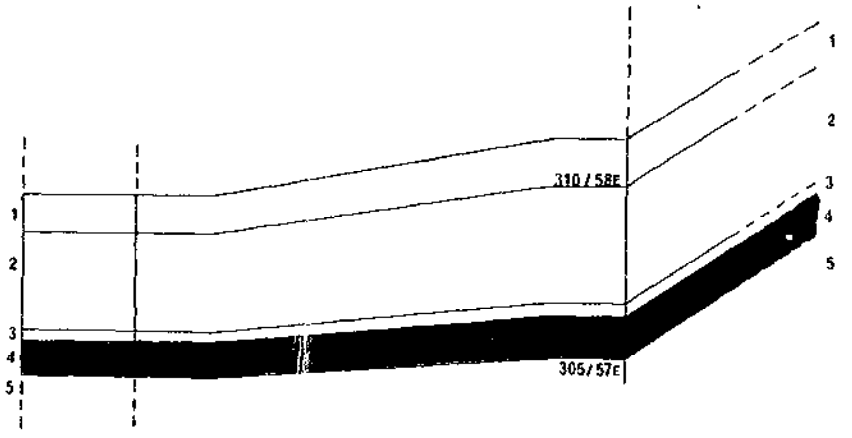
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION E 7

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 11-7
DATE: MAY, 1981	REVISED:	DRAWING No: HJ-81F
To Accompany		



Unit	Lithologic Description
1	shale
2	shaly coal (2.2m)
3	carbonaceous shale
4	COAL (0.9m)
5	sandstone

PR - Pine Pass 80(2)B

Crows Nest Resources Limited

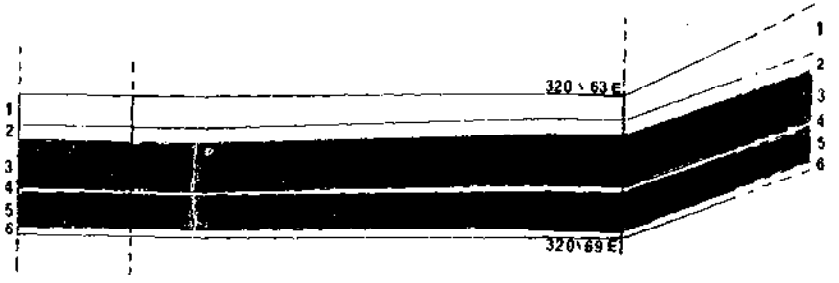
EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION E 8

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 11-8
DATE: MAY, 1981	REVISED:	DRAWING No: HJ-81G
To Accompany		

589



Unit	Lithologic Description
1	sandstone, fine grained
2	shale
3	COAL (1.3m)
4	carbonaceous shale
5	COAL (0.9m)
6	shale, fissile

589

PR - Pine Pass 80(1)B

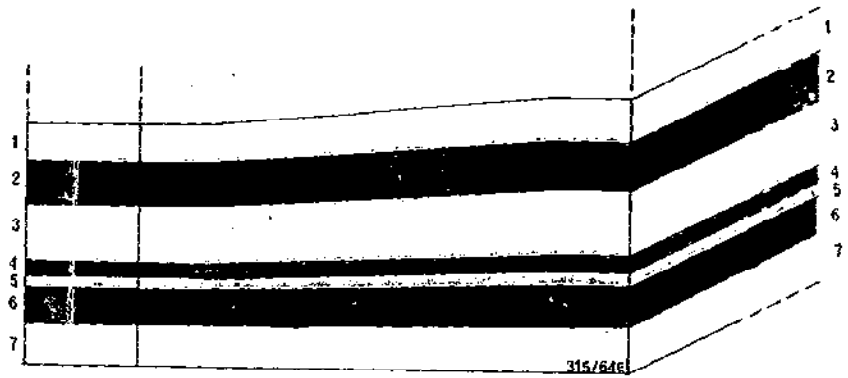
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION E 9

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 11-9
DATE: MAY, 1981	REVISED:	DRAWING No: HJ-81H
To Accompany		



Unit	Lithologic Description
1	shale
2	COAL, clean, hard (1.1m)
3	shale
4	COAL, clean, hard (0.4m)
5	shale
6	COAL, clean, hard (0.9m)
7	siltstone

589

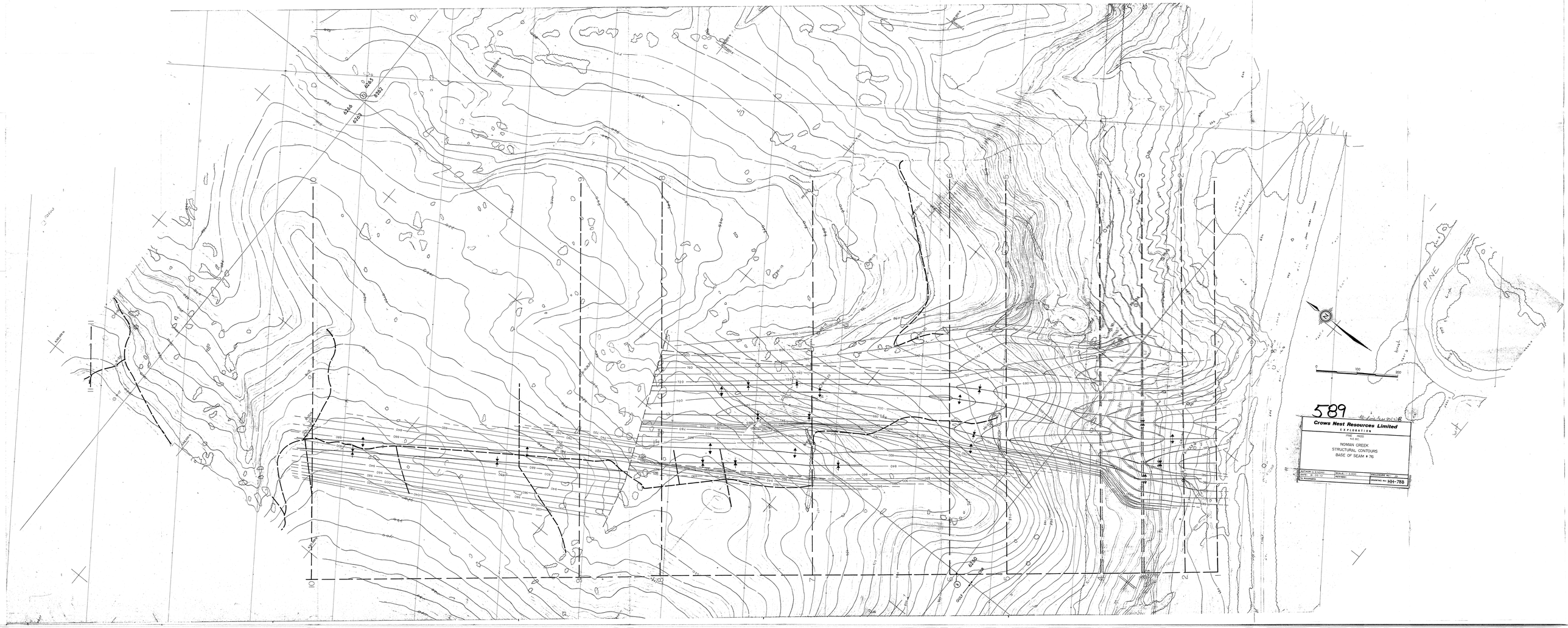
Crows Nest Resources Limited

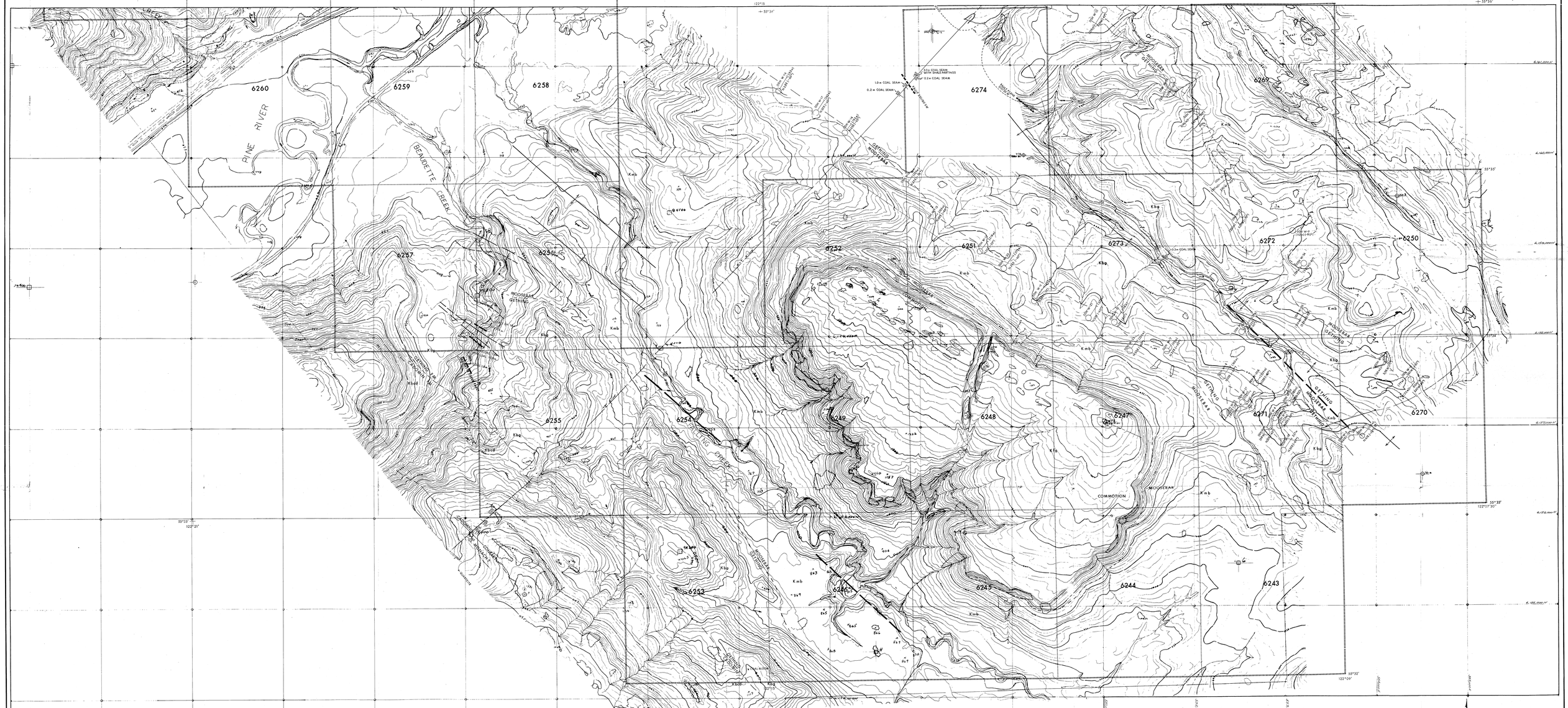
EXPLORATION

PINE PASS
N.E. B.C.

MEASURED TRENCH SECTION E 10

AUTHOR: G.C. SINGHAI	SCALE: 1:200	ENCLOSURE No: 11-10
DATE: MAY, 1981	REVISED:	DRAWING No: HJ-811
To Accompany		


589
Crows Nest Resources Limited
EXPLORATION
NOMAN CREEK
STRUCTURAL CONTOURS
BASE OF SEAM # 76
DRAWING No. HH-788
PINE
0
100
200



LEGEND

FORT ST JOHN GROUP

Kfg	COMMOTION – GATES FM.
Kmb	MOOSEBAR FM.

BULL HEAD GROUP

Kbg	GETHING FM
Kbcd	CADOMIN FM

CONTACT UNDEFINED

CONTACT INFERRED

ANTICLINE

SYNCLINE

FAULT UNDEFINED

BEDDING ATTITUDE

INCLINED DIAMOND DRILL HOLE } McKECHNIE 1955

VERTICAL DIAMOND DRILL HOLE }

SCALE 1:10,000

0 500 1000 m

589

Re: Rock Pass 104(3)B

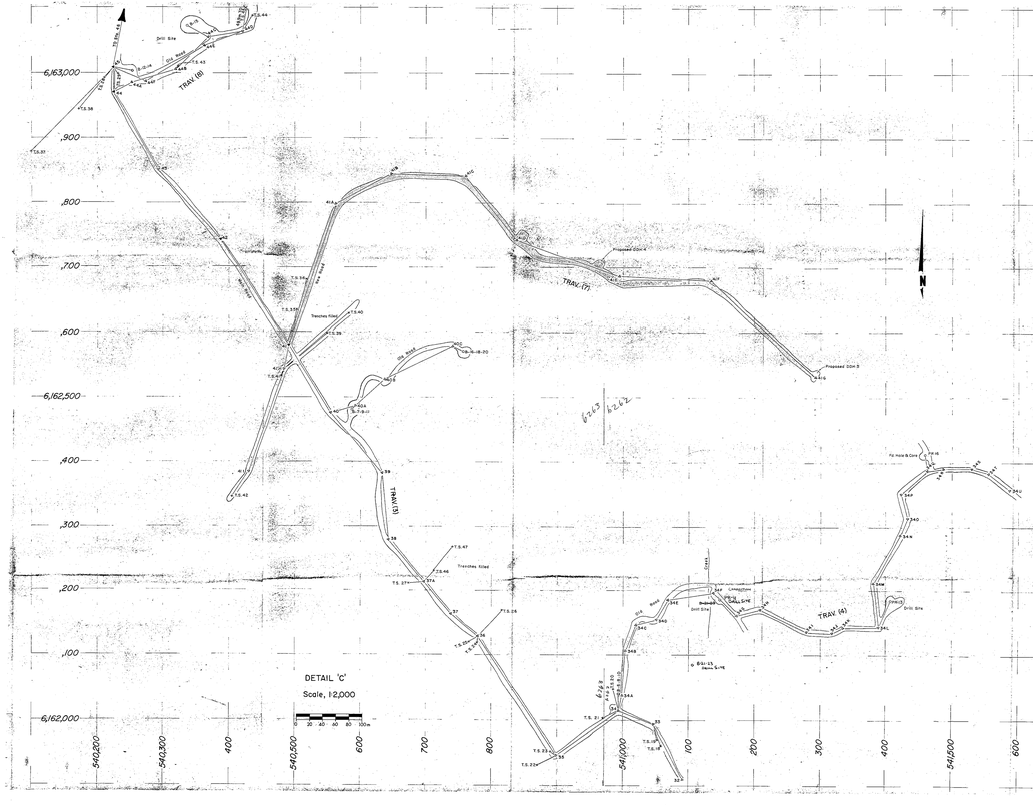
Crows Nest Resources Limited

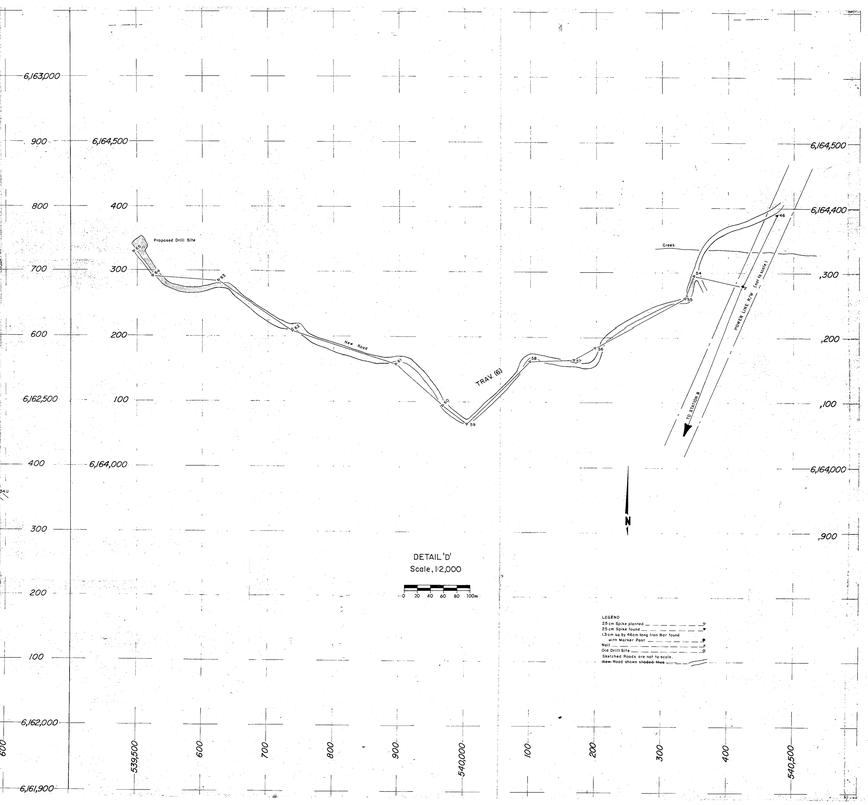
EXPLORATION

FINE PASS
WILLOW CREEK AREA
N.E. BRITISH COLUMBIA

GEOLOGICAL MAP

AUTHOR: G.C. SHUGHAI	SCALE: 1:10,000	ENCLOSURE No:	13
DATE: 81 06 13	REVISED:	DRAWING No:	HC-82
To Accompany			





LEGEND
25 cm Spike placed
25 cm Spike found
1.3 cm sq by 46cm long Iron Bar found
1.3 cm Marker Post
Rock Cairn
Old Drill Site
Stations Rock are not to scale.
New Road shown shaded red

TRAVERSE (3)

STATION	H. ANGLE	BEARING	DISTANCE	NORTHING	EASTING	ELEVATION
B						
		21-50-26				
F	183-28-40		122.603	6164279.391	540422.222	964.44
		25-15-06				
46	343-01-11		140.523	6164390.217	540424.453	965.02
		190-20-17				
45	148-26-41		38.596	6163008.485	540222.403	1060.82
		178-46-58				
44	151-37-28		136.783	6163969.908	540223.423	1062.35
		150-54-26				
43	148-18-23		142.874	6163850.967	540290.971	1066.47
		137-43-53				
42	188-44-31		193.152	6163743.605	540385.262	1061.64
		167-27-04				
41	180-49-46		122.284	6163580.791	540489.361	1043.08
		148-18-50				
40	173-33-22		123.11	6163474.772	540553.453	1035.08
		139-30-12				
39	215-04-10		89.089	6163382.689	540630.856	1009.26
		174-34-22				
38	143-42-53		64.319	6163279.295	540642.073	994.91
		140-37-13				
37A	180-04-31		53.768	6163212.751	540696.692	1002.14
		160-41-48				
37	169-51-03		218.511	6163182.981	540737.434	1007.74
		130-33-49				
36	196-00-18		56.908	6163138.028	540778.290	1003.43
		148-33-03				
35	87-18-03		154.096	6163143.706	540858.730	968.53
		53-51-10				
34	236-42-33		95.374	6163011.187	540992.478	944.44
		110-33-43				
33	220-04-23		87.635	6163984.320	541043.760	931.83
		130-18-14				
32	137-48-44		232.243	6163923.729	541092.721	909.40
		108-27-22				
31	216-20-06		86.511	6163882.994	541175.851	890.35
		144-17-08				
30	102-39-14		152.977	6163693.415	541309.656	861.15
		67-26-22				
29	110-43-21		71.859	6163728.808	541389.567	839.18
		358-09-43				
28	280-25-02		71.407	6163879.504	541384.640	830.83
		98-34-45				
27	228-30-52		136.278	6163868.784	541455.693	819.13
		144-55-37				
26	174-50-14			6163810.343	541594.727	809.01
		139-10-56				
23	189-42-03			6163706.078	541584.945	786.81
		149-28-03				
24						

TRAVERSE (2)

STATION	H. ANGLE	BEARING	DISTANCE	NORTHING	EASTING	ELEVATION
No. Blackford						
		98-10-00				
A	344-32-10		1580.087	6163519.864	543535.021	
		262-47-10				
34U	221-52-57		42.933	6163339.167	541587.752	
		304-15-07				
34T	136-00-25		23.873	6162581.537	541552.384	
		260-39-32				
34S	203-50-15		44.043	6162379.782	541539.722	
		284-35-47				
34R	157-33-20		23.953	6162390.757	541487.068	
		261-59-07				
34Q	146-23-24		53.148	6162387.637	541463.263	
		228-22-31				
34P	111-34-30		39.281	6162352.151	541423.847	
		165-57-01				
34O	213-18-00		27.905	6162314.068	541433.153	
		203-11-01				
34N	184-46-09		86.779	6162288.369	541422.137	
		208-01-10				
34M	145-28-15		49.172	6162211.762	541381.321	
		173-30-09				
34L	213-20-13		44.851	6162213.036	541389.198	
		269-06-02				
34K	165-21-14		28.010	6162142.330	541344.353	
		254-27-18				
34J	197-49-42		36.242	6162134.803	541317.368	
		272-11-00				
34I	203-39-01		37.899	6162136.347	541279.156	
		295-52-01				
34H	138-40-13		36.664	6162130.377	541238.872	
		254-32-16				
34G	239-55-20		32.453	6162140.602	541173.435	
		314-27-36				
34F	126-58-46		70.774	6162196.780	541136.268	
		241-24-22				
34E	126-45-38		36.044	6162186.243	541066.782	
		208-12-00				
34D	226-29-13		33.256	6162154.479	541069.730	
		254-41-13				
34C	125-42-29		42.168	6162115.696	541017.674	
		199-43-42				
34B	146-35-26		67.468	6162107.062	541003.103	
		184-19-08				
34A	187-05-41		26.395	6162037.788	540998.022	
		151-24-48				
34	22-26-09			6162013.875	540993.194	
		233-44-58				
35						

TRAVERSE (4)

STATION	H. ANGLE	BEARING	DISTANCE	NORTHING	EASTING	ELEVATION
44						
		205-19-06				
F	237-05-32		75.895	6164279.391	540422.222	
		287-24-38				
54	150-30-16		128.719	6164295.702	540368.101	
		252-34-54				
55	132-19-35		86.882	6164260.824	540234.421	
		205-14-29				
56	215-13-15		37.324	6164184.067	540198.425	
		240-28-54				
57	206-38-20		66.454	6164163.651	540165.949	
		267-06-44				
58	138-14-24		135.963	6164162.293	540099.380	
		323-21-08				
59	263-41-38		48.489	6164046.745	540002.450	
		307-02-46				
60	184-37-27		95.103	6164046.881	539965.401	
		311-40-53				
61	156-23-31		145.501	6164158.090	539884.361	
		288-02-44				
62	195-49-43		136.232	6164209.358	539737.001	
		303-52-27				
63	149-50-21		100.434	6164285.290	539623.892	
		273-32-48				
64	230-37-10		48.058	6164291.211	539523.433	
		323-59-58				
65	257-33-00		4649.453	6164330.090	539495.385	
		41-32-58				
66	248-23-10		4925.538	6167809.664	542579.209	
		209-56-08				
67	352-13-33			6163542.989	540102.237	
		23-08-41				
F						

TRAVERSE (7)

STATION	H. ANGLE	BEARING	DISTANCE	NORTHING	EASTING	ELEVATION
42						
		167-27-04				
43	50-49-17		232.298	6163582.791	540489.161	
		18-16-21				
43A	223-06-23		96.339	6162799.476	540541.368	
		65-22-44				
43B	209-35-07		113.362	6162815.624	540463.935	
		91-13-51				
43C	230-11-33		126.450	6162813.058	540759.218	
		141-24-24				
43D	148-24-37		146.829	6162713.954	540858.107	
		109-54-01				
43E	142-13-41		140.149	6162687.236	540964.786	
		92-27-42				
43F	219-57-43		218.516	6162681.234	541134.805	
		132-25-25				
43G				6162533.804	541296.109	

TRAVERSE (8)

STATION	H. ANGLE	BEARING	DISTANCE	NORTHING	EASTING	ELEVATION
45						
		178-44-48				
44	60-44-01		31.232	6162969.908	540223.423	
		59-32-54				
44A	155-15-25		65.911	6162985.136	540230.347	
		72-48-24				
44B	151-37-15		84.443	6163004.401	540317.114	
		64-25-39				
44C	214-50-13		54.414	6163055.993	540365.755	
		79-56-22				
44D	249-20-09		61.956	6163064.122	540419.210	
		248-34-31				
44E	169-34-38		105.204	6163043.524	540461.522	
		238-10-44				
44F	234-14-37		32.968	6162988.060	540572.134	
		292-25-28				
45				6163008.265	540223.143	

CERTIFIED CORRECT this 4th day of November 1980.

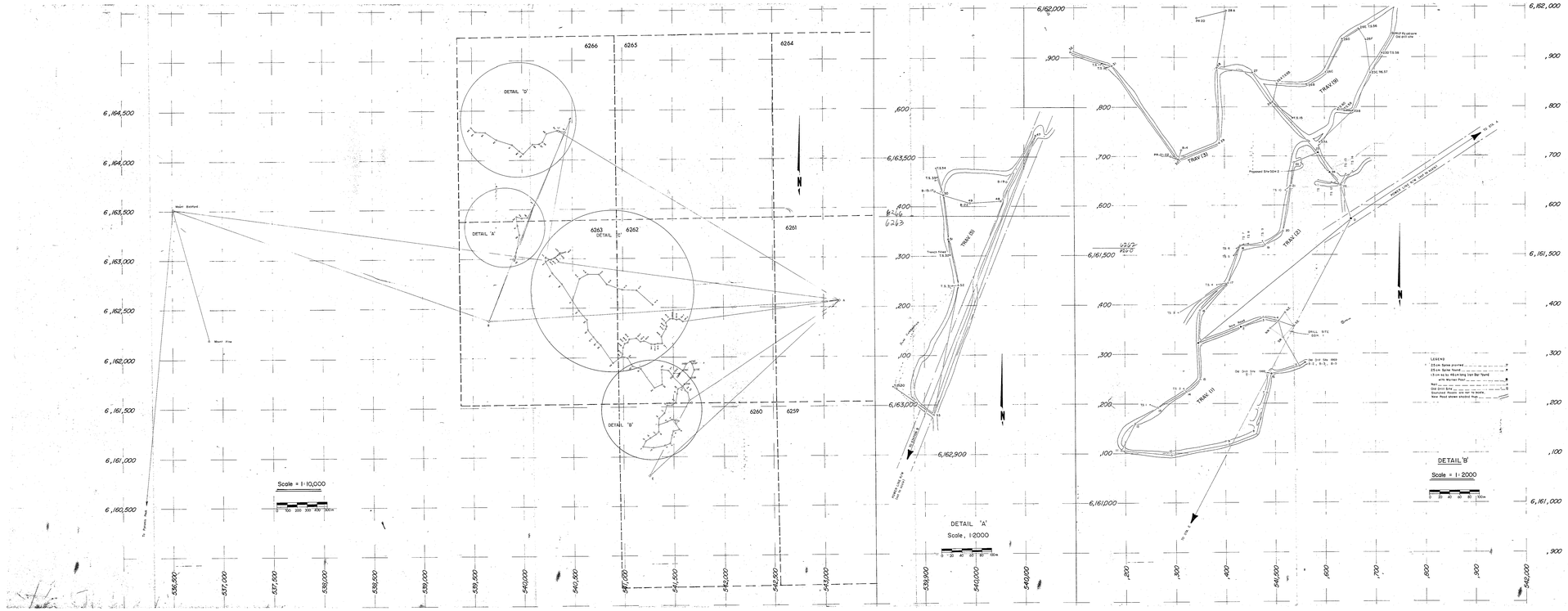
Alberta Land Surveyor

Crows Nest Resources Limited
EXPLORATION
PINE PASS
BRITISH COLUMBIA

SURVEY 1980

AUTHOR: H. STALDER	SCALE: AS SHOWN	COMPILED	
DATE: NOV. 80	REVISED:	DRAWING No HH-78A	
Alt. Minimum			

589



CONTROL TRAVERSE

STATION	H. ANGLE	BEARING	DISTANCE	NORTHING	EASTING	ELEVATION
Pyramids						
		5-33-01		6163514.007	539006.291	1903.67
Mt.Bickford 284-23-19		106-55-40	3352.102			
A	124-14-23			6162331.492	539657.679	1211.03
		86-15-03	3302.411			
A	34-53-16			6162559.864	543135.021	852.86
		121-14-17	3288.268			
C	340-30-32			6164292.886	540360.489	977.70
		112-24-39	4137.187			
D	279-31-17			6164279.791	543622.222	984.44
		201-50-26	2817.928			
B	248-03-23			6162371.307	539917.336	1211.03
		289-55-49				
Mt.Bickford						
B						
		86-55-01				
A	124-18-13			6162559.864	543135.021	852.86
		196-14-14	1860.142			
D	151-08-36			6161572.074	543540.017	963.99
		203-52-50	844.280			
E	24-24-00			6160800.144	543343.923	817.13
		47-27-51	2181.511			
A	39-21-35			6162559.784	543135.173	852.86
		264-55-52				
B						
Mt.Bickford						
A		98-10-00		6162559.864	543135.021	
	19-48-55					
		297-58-55	1010.159			
Point Central						
Elev. 835	84-34-07			6162592.742	543093.140	
		182-55-12				
Point Central						
Elev. 830						
Mt.Bickford						
A		98-10-00				
	150-02-41			6162559.864	543135.021	852.86
		48-12-49	2434.154			
A_1	111-25-24			6164[illegible].247	541419.429	841.71
		29-18-05	4[illegible].815			
A_2	191-53-03			6163814.717	543707.465	843.48
		51-55-08	254.959			
Mon. 202				6163[illegible].414	543810.253	844.85

TRAVERSE (1)

STATION	H. ANGLE	BEARING	DISTANCE	NORTHING	EASTING	ELEVATION
B						
		21-50-24		6164[illegible]79.391	540422.222	
F	00-21-33		795.385			
		202-11-57		6163542.953	540223.441	
F_1	179-23-10		1249.953			
		201-37-09		6162371.438	539917.481	
B						
F						
		202-11-58				
F_1	177-43-49			6163542.953	540223.441	
		199-55-48	596.191			
53	352-47-36			6162982.284	539918.732	
		10-43-24	246.185			
52	156-53-00			6162933.633	539967.860	
		247-36-29	96.642			
51	[illegible]38-[illegible]			6163126.039	539963.150	
		354-14-30	49.913			
50	241-06-12			6163425.525	539958.329	
		101-54-42	54.117			
49 B-22	260-42-01			6163450.382	539991.894	
		86-57-43	48.915			
48	125-13-53			6163434.023	540053.110	
		27-49-36	165.725			
47	174-23-04			6163542.897	540121.736	
		22-12-40				
F						

TRAVERSE (2)

STATION	H. ANGLE	BEARING	DISTANCE	NORTHING	EASTING	ELEVATION
0						
		230-50-14		6163[illegible].446	541344.869	730.39
1	312-35-55					
		3-24-09	44.335	6163489.669	541348.823	743.85
1A	222-04-13					
		63-30-22	78.489	6163444.857	541404.851	747.73
17	132-37-18					
		18-07-40	78.277	6163518.144	541429.197	751.43
18	230-39-04					
		88-24-44	49.929	6163520.488	541478.117	753.26
19	142-23-08					
		51-03-53	46.364	6163569.837	541511.183	763.33
20	138-13-02					
		8-14-15	91.802	6163640.235	541529.990	776.10
21	179-07-29					
		8-24-23	47.306	6163687.231	541539.935	781.11
22	229-14-13					
		67-38-36	31.993	6163707.068	541585.030	782.04
23	261-47-21					
		149-25-47	45.901	6163667.471	541608.375	781.55
24	170-21-25					
		139-41-12	55.464	6163661.915	541629.982	779.36
25	204-14-51					
		164-00-03	72.710	6163572.010	541629.982	
0	72-41-31					
		36-43-34				
A						

TRAVERSE (3)

STATION	H. ANGLE	BEARING	DISTANCE	NORTHING	EASTING	ELEVATION
0						
		230-50-14		6163512.446	541344.869	730.39
1	312-35-55					
		3-24-09	44.335	6163489.669	541348.823	743.85
1A	222-04-13					
		63-30-22	78.489	6163444.857	541404.851	747.73
17	132-37-18					
		18-07-40	78.277	6163518.144	541429.197	751.43
18	230-39-04					
		88-24-44	49.929	6163520.488	541478.117	753.26
19	142-23-08					
		51-03-53	46.364	6163569.837	541511.183	763.33
20	138-13-02					
		8-14-15	91.802	6163640.235	541529.990	776.10
21	179-07-29					
		8-24-23	47.306	6163687.231	541539.935	781.11
22	229-14-13					
		67-38-36	31.993	6163707.068	541585.030	782.04
23	261-47-21					
		149-25-47	45.901	6163667.471	541608.375	781.55
24	170-21-25					
		139-41-12	55.464	6163661.915	541629.982	779.36
25	204-14-51					
		164-00-03	72.710	6163572.010	541629.982	
0	72-41-31					
		36-43-34				
A						

STADIA TRAVERSE (PV)

STATION	H. ANGLE	BEARING	DISTANCE	NORTHING	EASTING	ELEVATION
23						
		319-43-34				
26	233-13-10			6161810.343	541496.727	
		12-59-06	30.80			
26A (TBM35)	237-42-26					
		90-41-52	59.67	6161860.355	541503.65	
26B	147-08-22			6161829.63	541543.31	
		37-47-54	44.93			
26C	148-31-48			6161861.58	541561.32	
		26-19-42	73.98			
26D	231-33-54			6161929.86	541534.34	
		17-53-06	38.00			
26E (TBM36)	270-40-48			6161950.62	541567.18	
		148-33-54	26.29			
26F	203-14-00			6161928.19	541680.89	
		171-47-54	46.36			
26G (TBM37)	212-55-42					
		204-43-36	83.36	6161862.50	541690.35	
27B	225-48-44			6161786.61	541653.40	
		225-32-02	92.84			
28A	147-53-02			6161722.74	541588.01	
		194-24-22	18.00			
23	202-23-57			6161705.31	541583.34	
		319-38-19				
26						

DETAIL 'C'

DETAIL 'D'

CERTIFIED CORRECT this 14th day of November 1980.

Alberto Lara Garrison

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Crows Nest Resources Limited
EXPLORATION
FINE PAGE
BRITISH COLUMBIA

SURVEY 1980

DRAWN: G. SHORRAT	DEPICTS ALL SHOWN	CALCULATED BY: G.	
SCALE: AS	REVISED:		
DATE: NOVEMBER 1980		DRAWING No. HH-78	

Pr-Pine Pass 80(2)B

80-0082

TRENCHES IN PINE PASS AREA 1980

TRENCH SITES	CO-ORDINATES Northing	Easting	Liscence	ELEVATION	TRAVERSE	STATION #
W-1 TS #1	6161200.106	541247.310	6260	705.53	1	13
W-1 TS #2	6161233.038	541314.499		715.93	1	14
W-2 TS #3	6161383.302	541304.436	6260	752.12	2	17
W-2 TS #4	6161440.360	541382.889		750.99	2	17
W-3 TS #5	6161498.959	541416.686	6260	752.10	2	18
TS #6	6161514.304	541422.788		751.63	2	18
W-4 TS #7	6161520.973	541434.632	6260	751.37	2	18
TS #8	6161523.125	541446.079		753.47	2	18
W-6 TS #9	6161527.607	541474.641	6262	758.37	2	19
TS #10	6161631.395	541520.990		776.03	2	21
E-1 TS #11	6161652.092	541586.793	6262	770.89	2	25
TS #12	6161646.606	541612.352		775.07	2	25
E-2 TS #13	6161664.068	541641.043	6262	778.96	2	25
TS #14	6161670.018	541654.268		775.97	2	25
E-3 TS #15	6161777.675	541536.217	6262	800.96	3	26
? TS #16	6161879.903	541165.219		892.62	3	31
TS #17	6161885.057	541155.606		894.64	3	31
? TS #18	6161961.314	541058.720	6262	924.93	3	33
TS #19	6161972.230	541052.993		927.64	3	33
W-5 TS #20	6162048.419	540983.800	6262	946.50	3	34
TS #21	6162003.642	540968.790		952.38	3	34
W-7 TS #22	6161932.635	540869.692	6263	975.52	3	35
TS #23	6161951.359	540890.033		971.10	3	35
W-8 TS #24	6162118.776	540777.069	6263	1004.64	3	36
TS #25	6162119.619	540764.933		1007.27	3	36
W-9 TS #26	6162169.631	540816.849	6263	988.43	3	36
W-10 TS #27	6162210.817	540673.315	6263	1005.91	3	37A
W-13 TS #28	6162992.477	540209.334	6263	1060.39	3	45
TS #29	6162998.072	540230.045		1060.64	3	45
W-15 TS #30	6163038.527	539836.382	6266	1106.62	5	53
W-16 TS #31	6163243.233	539956.023	6266	1079.88	5	52
TS #32	6163305.361	539952.464		1082.24	5	51
W-17 TS #33	6163463.587	539926.511	6266	1080.40	5	50
TS #34	6163481.226	539923.484		1076.98	5	50

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PR-Pine Pass
80(2)A

TRENCHES IN PINE PASS AREA 1980

	TRENCH SITES	CO-ORDINATES Northing	CO-ORDINATES Easting	ELEVATION	Liscence #	TRAVERSE	STATION #
W-12	TS #35	6162634.610	540503.131	1036.69	6263	7	41
	TS #36	6162681.797	540517.378	1030.37		7	41
W-18	TS #37	6162878.663	540098.565	1086.87	6263	3	45
	TS #38	6162945.027	540162.313	1066.74		3	45
W-14	TS #39	6162599.683	540548.914	1028.45	6263	3	41H
	TS #40	6162629.181	540582.016	1019.99		3	41H
W-20	TS #41	6162533.704	540479.573	1046.22	6263	3	41H
	TS #42	6162346.640	540404.732	1032.71		3	41I
W-19	TS #43	6163010.859	540322.893	1047.52	6263	8	44B
	TS #44	6163088.553	540435.899	1018.64		8	44D
	TS #45	6163113.953	540429.520	1016.30		8	44D
W-11	TS #46	6162231.575	540712.119	997.25	6263	3	37A
	TS #47	6162268.639	540741.198	985.98		3	37A
W-21?	TS #48	6161635.920	541256.946	841.15	6262	3	(30A)
	TS #49	6161513.095	541226.069	843.65		3	(30C)
E-8?	TS #50	6162021.525	541347.265	848.93	6262	3	(28D)
	TS #51	6162011.421	541412.558	863.22		3	(28E)
E-6?	TS #52	6161483.177	541685.484	744.95	6260	2	(DF)
	TS #53	6161506.09	541723.508	731.56		2	(DE)
	TS #54	6161538.174	541753.482	721.90		2	(DD)
E-5	TS #55	6161840.355	541503.650 6262	822.92	6262	9	(26A)
E-7	TS #56	6161950.62	541667.18 6262	833.14		9	(26E)
E9	TS #57	6161862.50	541690.35	790.92	6262	9	(23C)
	TS #58	6161902.53	541713.55	798.34		9	(23D)
E-10	TS #59	6161786.89	541638.40	783.63	6262	9	23B
	TS #60	6161787.74	541626.42	783.41		9	23B

PR - Pine Pass 80(2) B

PINE PASS

OLD DRILL HOLE SITES	CO-ORDINATES NORTHING	CO-ORDINATES EASTING	ELEVATION
1969 B-1	6161260.327	541490.792	675.17
B-2, B-3, B-5	6161283.179	541557.476	669.89
B-4	6161712.456	541313.581	843.62
B-6, B-8, B-10	6162040.068	540991.957	945.03
B-7, B-9, B-11	6162482.084	540587.350	1025.28
B-12, B-14	6163003.528	540252.031	1058.77
B-15	6163072.377	540375.187	1032.40
~~B-21~~, ~~B-23~~ PR-11	6162186.350	541147.398	878.80
B-19	6163449.886	540064.152	1050.40
B-13, B-17	6163433.904	539921.642	1083.76
B-16, B-18, B-20	6162571.303	540756.342	974.83
B-22	6163410.382	539991.898	1069.51
1948 PR13	6162184.013	541406.999	885.69
PR16	6162412.630	541459.855	899.87
PR21, PR22	6161699.704	541292.362	843.70
PR20	6161978.814	541344.568	838.01
PR17	6161940.075	541735.306	808.28

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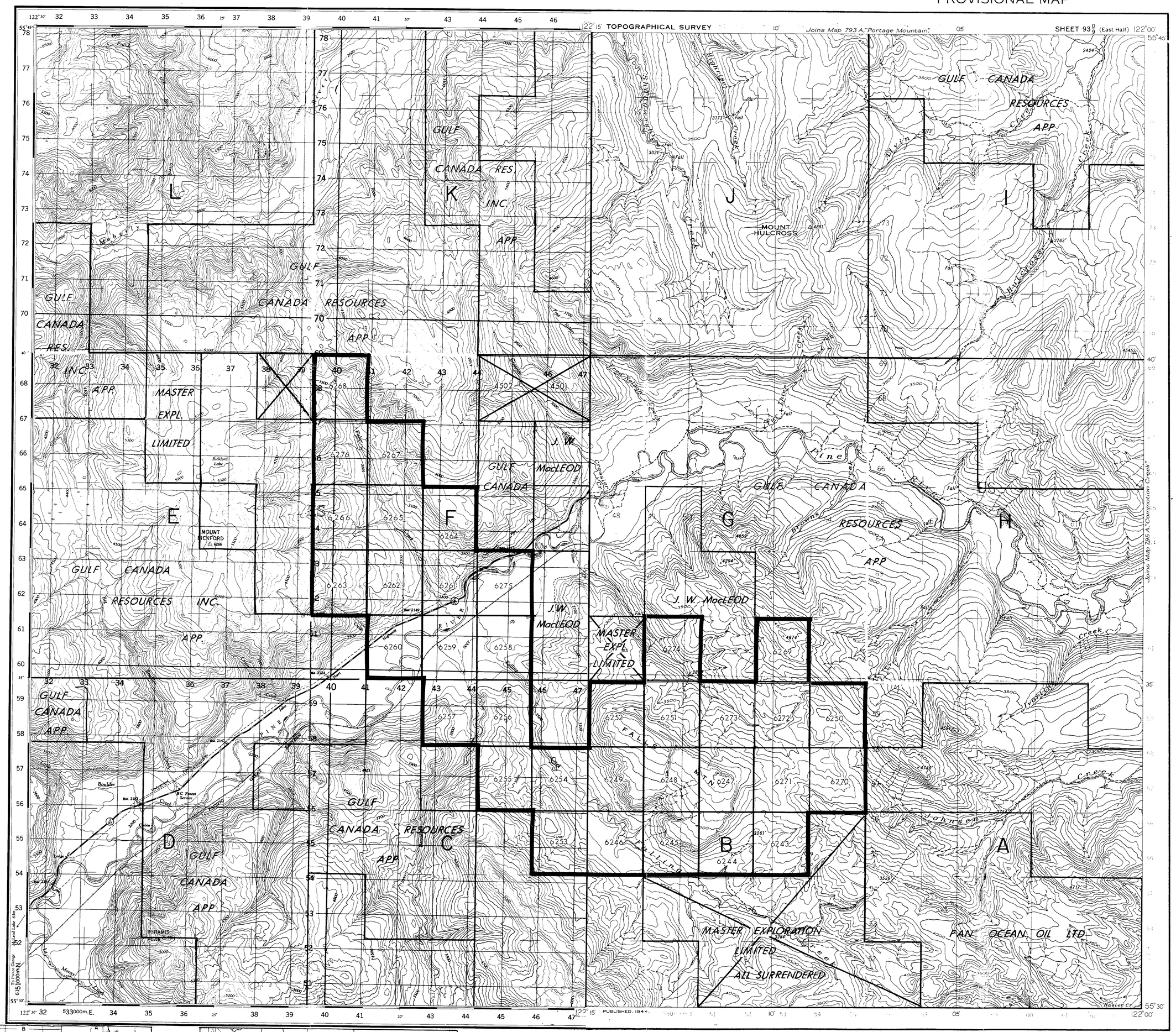
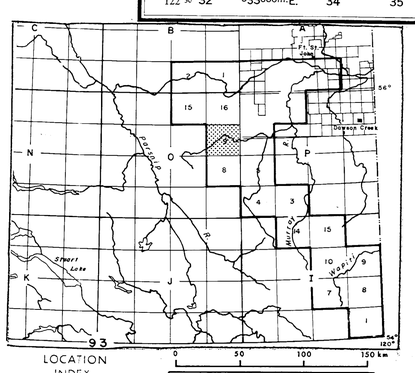
NATIONAL TOPOGRAPHIC SYSTEM 1:50,000 CANADA SECOND EDITION

DEPARTMENT OF MINES AND RESOURCES
MINES AND GEOLOGY BRANCH
BUREAU OF GEOLOGY AND TOPOGRAPHY

PROVISIONAL MAP




LOCATION INDEX
Pacific
Stuart Lake
Murray
Nechako
Nation
Chilcotin
Quesnel
Cariboo
Fraser
Thompson
Nicola
Okanagan
Similkameen
Kootenay
Columbia
Lillooet
Yale
Coast
Rocky Mts.
Omineca
Peace River
Liard
Cassiar
Skeena
Queen Charlotte Is.
Stikine
Atlin
Lake Dease
Lake Hazelton
Lake Kootenay
Lake Okanagan
Lake Shuswap
Lake Nicola
Lake Pemberley
Lake Quesnel
Lake Stuart
Lake Tahtsa
Lake Tatlayoko
Lake Tulameen
Lake Vanderhoof
Lake Williston
Lake Windermere
Lake Wolverine
Lake Yalakom
Lake Yellowhead
Lake Zeballos
Lake Zelda
Lake Zetes
Lake Zimmerman
Lake Zinc
Lake Zinnia
Lake Zirconia
Lake Zitella
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Lake Zz

82-Pine Pass 80(2)B

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STRATIGRAPHIC SECTION

DESIGNATION: Enclosure 4 | PART ____ OF ____

PROJECT: PINE PASS PROSPECT

AREA: NOMAN CREEK

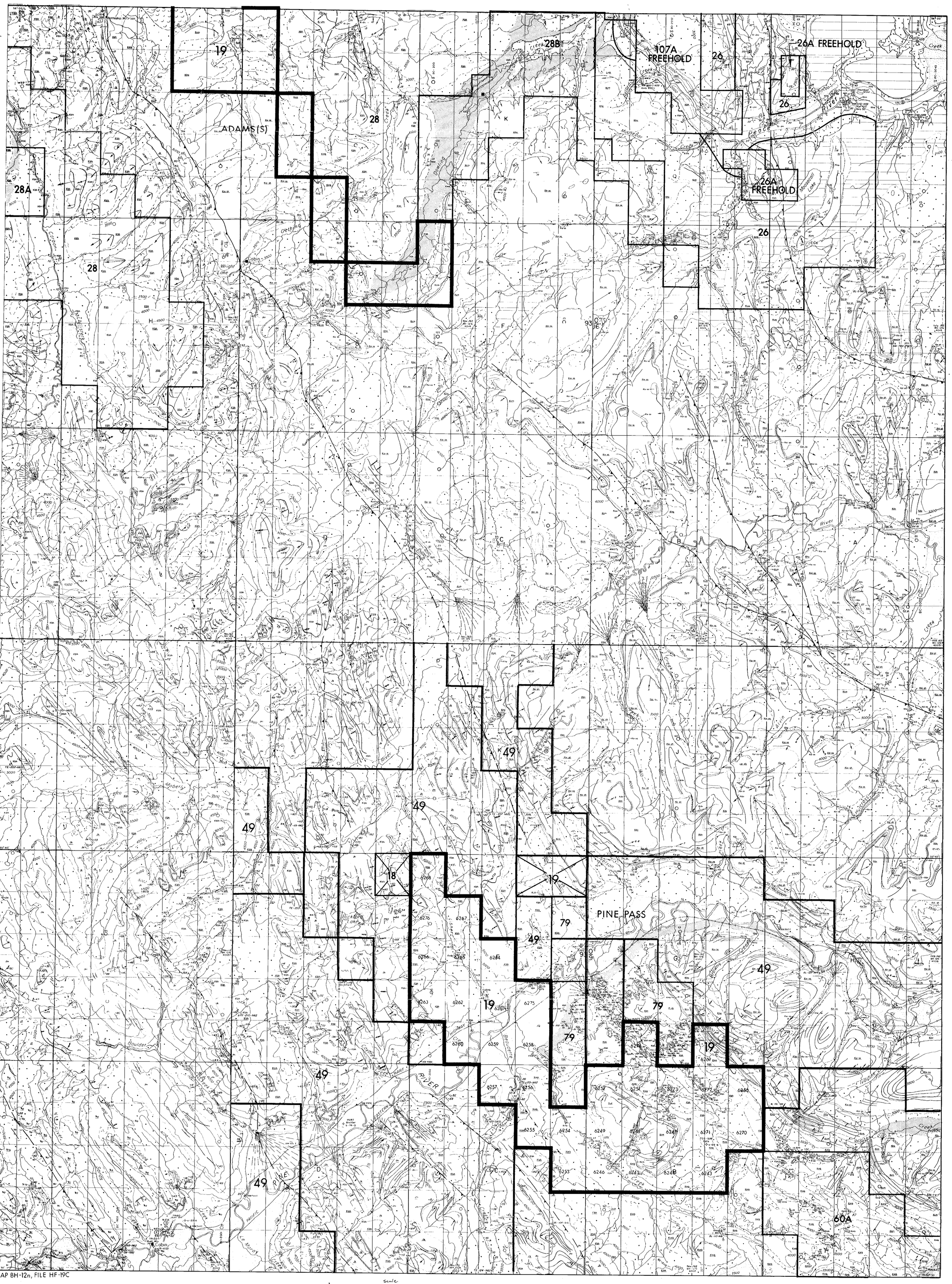
LOCATION: REPRESENTATIVE SECTION

AUTHOR: G.C. SINGHAI | DATE: 1981-06

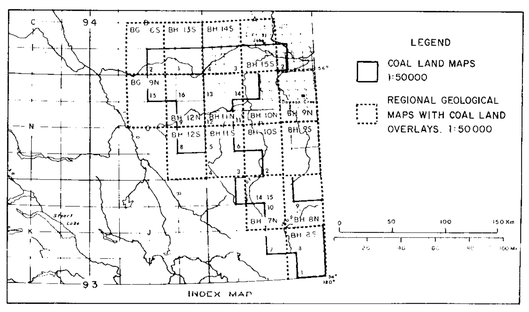
SOURCE OF DATA: B.C. GOVERNMENT DRILLING 1955
BRAMEDA RESOURCES 1969
FIELD MAPPING AND TRENCHING 1980

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	RANGE	DESCRIPTION: MAIN	DESCRIPTION: AMPLIFIED	SAMPLE
1:400 [m]							
0			Kmb.			Moine shales - contact marked by Basal conglomerate	
20						Sh & Carb. Sh - interbedded siltstn	
40							
60							
		SEAM C		1.0→2.0m	Coal		
				8.5→10.5m	Sh & Carb Sh		
80		SEAM B		1.5→2.0m	Coal		
				10.0→28.3m	Sh - carb near coal seams, silty mudstone towards middle of unit		
100							
		SEAM A		1.0→3.0m	Coal		
					Sh - carb		
120					Ss		
					Sltstn		
140					Interbedd sltstn & sh		
				100→120m			
160							
					Sltstn		
180					Ss		
					Sltstn		
200							
					Sh - carb.		
		SEAM 78		0.5→4.3m	Coal		
					Sh & Carb Sh		
220					Sltstn		
240					Sh - carb.		
		SEAM 76		2.0→7.5m	Coal		
					Sh - carb		
260				30.0→73.0	Sltstn		
280							
					Sh - carb.		
		SEAM 40		1.5→4.0m	Coal		
					Sh - carb		
300				8.0→44.0m	Sltstn		
					Sh - carb		
		SEAM 39		0.5→2.5m	Coal		
320					Sh - carb.		
340							

HK-79

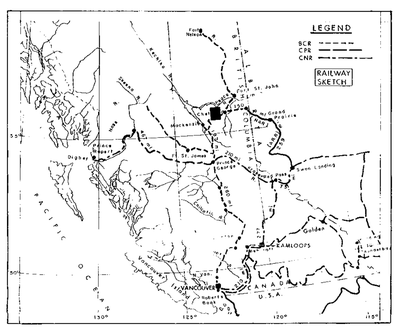


MAP BH-12n, FILE HF-19C



LEGEND

18. MASTER EXPLORATIONS LTD. (MANALTA COAL LTD.)
19. SHELL CANADA RESOURCES LIMITED - CROWS NEST RESOURCES LIMITED (OPERATOR)
22. DENISON COAL LTD. AND/OR DENISON MINES LTD.
23. BRAMEDA RESOURCES LTD.
23A. BRAMEDA RESOURCES LTD. OPTIONED TO RANGER OIL (CANADA) LIMITED (30% CARRIED INTEREST TO BRAMEDA RESOURCES LTD.) – MOUNT SPIEKER PROPERTY AND RANGER OIL (CANADA) LIMITED
23B. BRAMEDA RESOURCES LTD. – BURNT RIVER PROPERTY
24. BRAMEDA RESOURCES LTD. & TECK CORPORATION LTD.
25. MCINTYRE MINES LIMITED
25A. MCINTYRE MINES LIMITED & CANADIAN SUPERIOR EXPLORATION LIMITED OPTIONED TO PACIFIC PETROLEUMS LTD.
26. CINNABAR PEAK MINES LTD.
28. UTAH MINES LTD.
28B. UTAH MINES LTD. – BIG PROPERTY
29. BELCOURT COAL LIMITED (BP CANADA COAL LTD. – 60%, GULF OIL (CANADA) LIMITED – 40%)
[illegible] COAL LIMITED (DENISON COAL LTD. – 38%, WITH PARTNERS MITSUI MINING CO. – 22%, TOKYO BOEKI LTD. – 22%, AND IMPERIAL OIL LIMITED – 10.34%)
[illegible] COAL LIMITED (DENISON COAL LTD. WITH PARTNERS RUHRKOHLE AG, MITSUI AND CO. LTD., UNION SIDERURGIQUE DU NORD ET DE L'EST SA DE LA FRANCE)
33. DEN THERM COAL LIMITED (DENISON COAL LTD.)
44A. BP EXPLORATION CANADA LIMITED
44B. BP EXPLORATION CANADA LIMITED (BP CANADA LIMITED AND BP CANADIAN HOLDINGS LTD.; GETHING COAL MEASURES; BRAMEDA RESOURCES LTD.; GATES COAL MEASURES) – BULLMOOSE PROPERTY
44C. BP EXPLORATION CANADA LIMITED – CHAMBERLAIN PROPERTY
47. NORCEN ENERGY RESOURCES LTD.
49. GULF OIL CANADA LIMITED
53. DUPONT OF CANADA EXPLORATION LTD.
60. PAN OCEAN OIL LTD.
60A. PAN OCEAN OIL LTD. OPTIONED TO NORCEN ENERGY RESOURCES LTD.
69. PACIFIC PETROLEUMS LTD.
78. J.W. MACLEOD
80. IMPERIAL OIL LIMITED/ESSO RESOURCES LTD.
101. BP EXPLORATION LIMITED, BP CANADIAN HOLDINGS LTD., BRASCAN RESOURCES LIMITED (12½%), AND COALITION MINING LTD.
107. BRITISH COLUMBIA HYDRO AND POWER AUTHORITY
107A. BRITISH COLUMBIA HYDRO AND POWER AUTHORITY & AYLARD, GETHING AND GREEN



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PR-Pine Pass 50(2)B

Crows Nest Resources Limited

EXPLORATION

N.E. BRITISH COLUMBIA

REGIONAL GEOLOGICAL MAPS WITH COAL LAND OVERLAYS

BH-12N

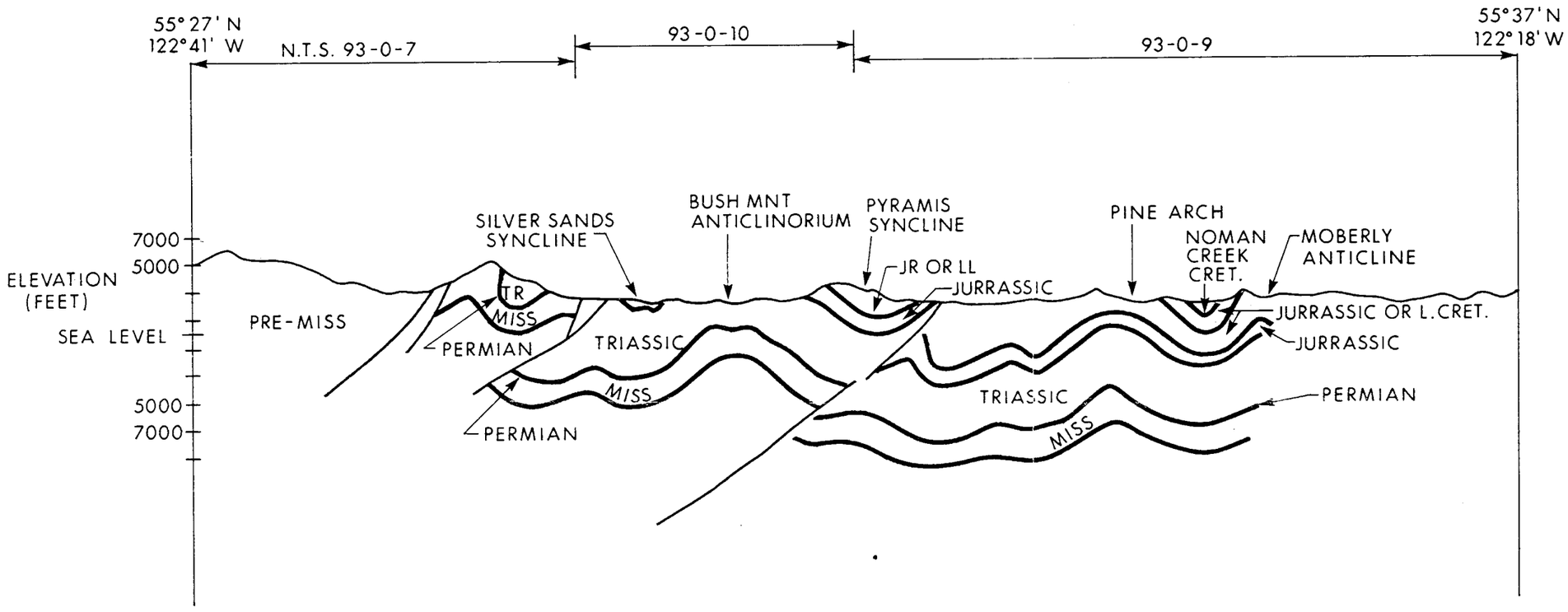
SHELL CNRL PROJECTS
PINE PASS-ADAMS (S)

NTS 930/9,10E,15E,16

AUTHOR: MARTONHEGYI	SCALE: 1:50 000	ENCLOSURE No: 5
DATE: DEC 1979	REVISED:	DRAWING No: HF-19C
To Accompany		

JR-Pine Pass 80(3)B

589



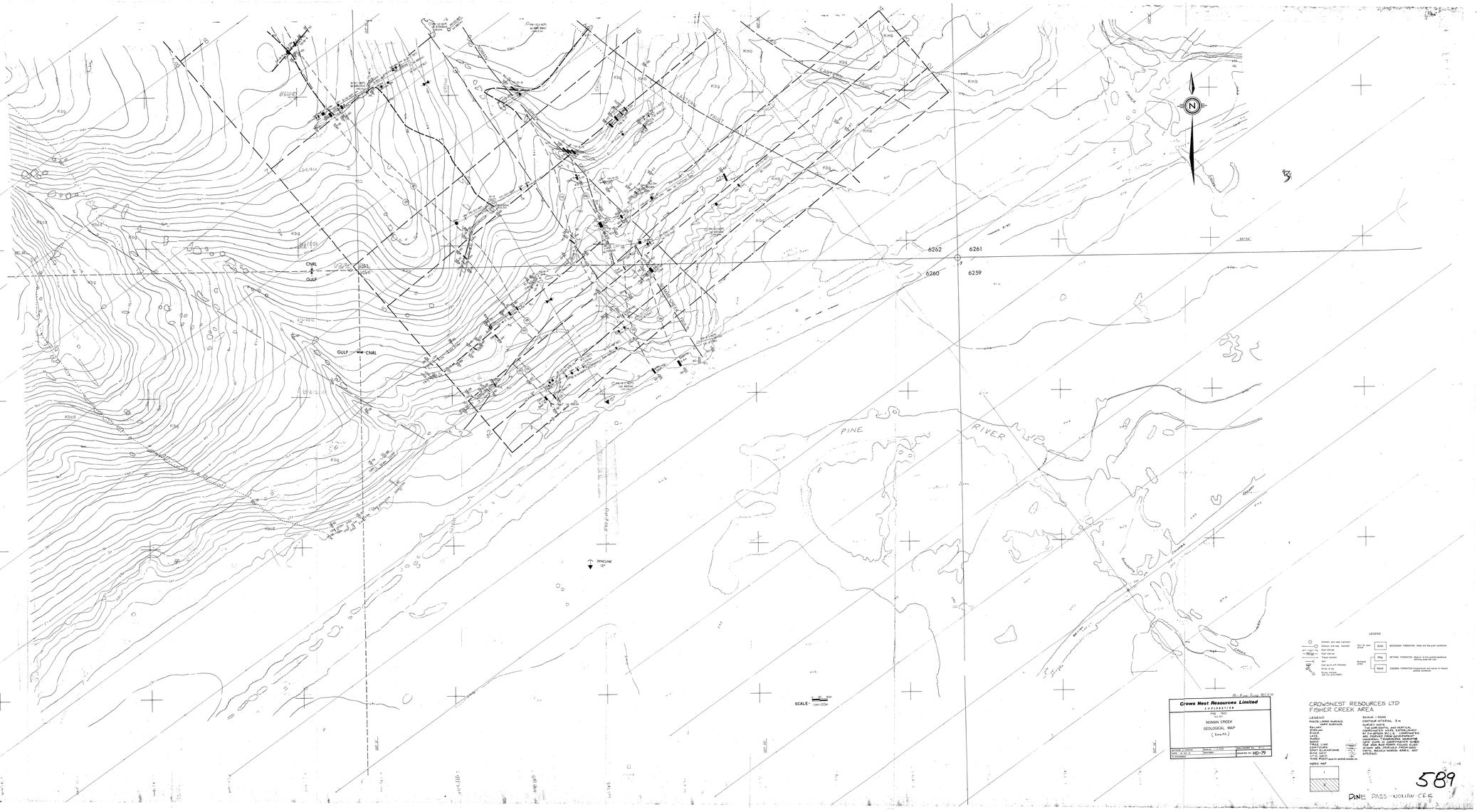
Crows Nest Resources Limited

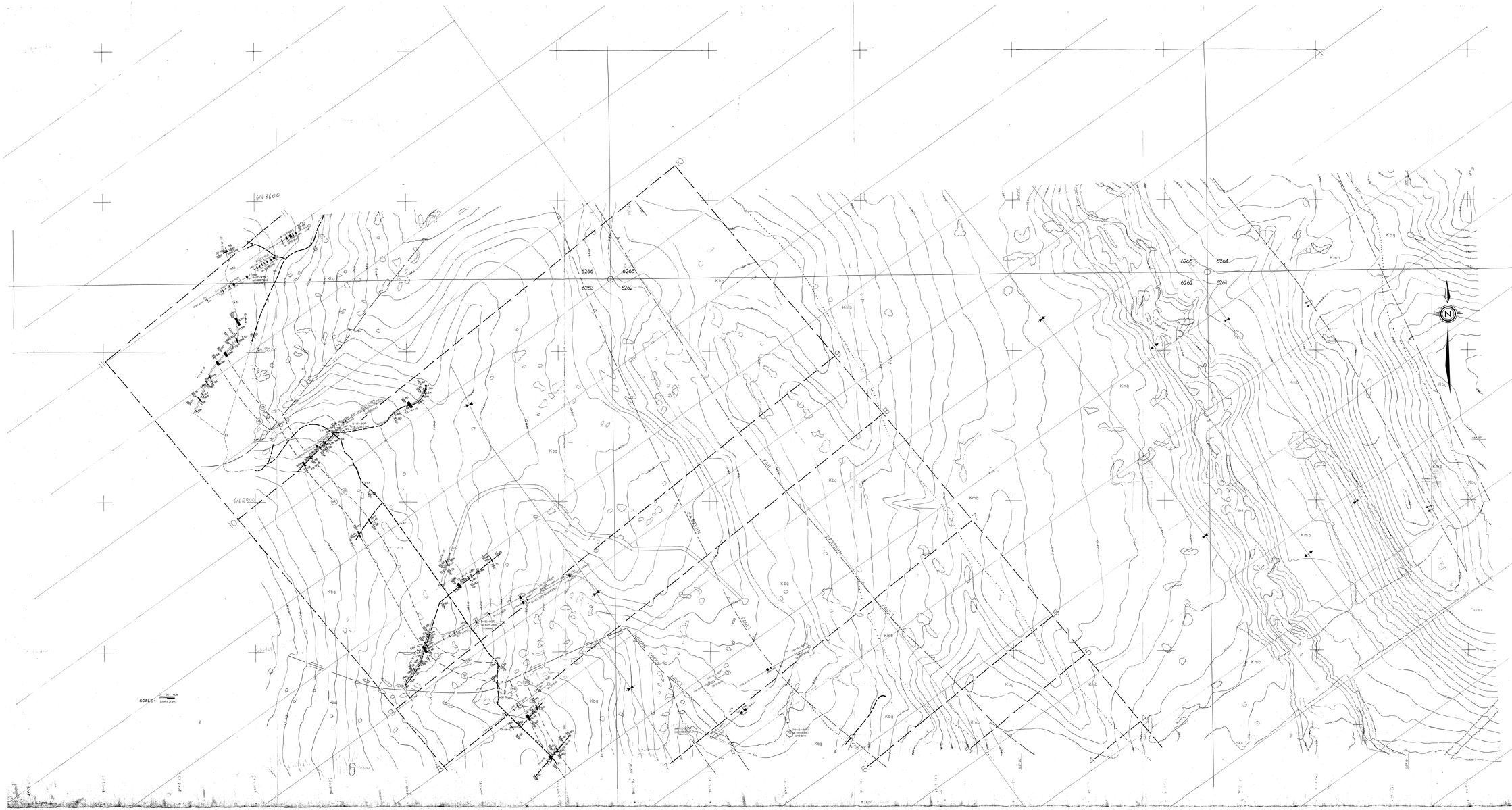
EXPLORATION

PINE PASS
NE BRITISH COLUMBIA

REGIONAL STRUCTURAL CROSS SECTION

AUTHOR: SINGHAI	SCALE:	ENCLOSURE No: 6
DATE: MAY, 1981	REVISED	DRAWING No: HE-41B
To Accompany		


Kbg
Kmb
Kbcd
CNRL
GULF
6262
6261
6260
6259
PINE
RIVER
PINCLINE
15°
SCALE:
LEGEND
Kbg
Kmb
Kbcd
Crows Nest Resources Limited
EXPLORATION
NOMAN CREEK
GEOLOGICAL MAP
(sect.)
HD-79
CROWSNEST RESOURCES LTD
FISHER CREEK AREA
INDEX MAP
589
PINE PASS - DOLLAR CEE



LEGEND

Diamond drill hole (vertical)
Diamond drill hole (inclined)
Pool (dry)
Pool (filled)
Water location
Adit
Old workings with measures
Drive & dip
Bedding (Top of Bed)
Fault (Fault Zone)

Plan Dip
Bottom Grid

Kmb — MOOSEBAR FORMATION: Shale and fine grain sandstone.

Kbg — LETHBRIDGE FORMATION: Medium to fine grained sandstone, siltstone,shale and coal.

Kbrd — LEDERER FORMATION:Conglomerate and coarse to medium grained sandstone.

CROWSNEST RESOURCES LTD
FISHER CREEK AREA

LEGEND
ROADS:LOOSE SURFACE
HARD SURFACE.
RAILWAY
TRAILS
RIVER
LAKE.
SWAMP
GRAVEL
TREE LINE.
CONTOURS
SUPPLY ELEVATION
MINE WORD
MINE WORD
MINE WORD(Degrees,minutes)

SCALE: 1:5000
CONTOUR INTERVAL 2m
SURVEY NOTE
ALL BEARINGS,DISTANCES, AND VERTICAL COORDINATES WERE ESTABLISHED BY STADIATION.ALL N.,S. COORDINATES WERE ESTABLISHED BY ASSUMING A ARBITRARY TRAVERSE.THE ELEVATIONS WERE ESTABLISHED BY ASSUMING THE ROOF IRON BAR PORTS FOUND. ELEV. OF THE ROOF IRON BAR PORTS WERE ESTAB. BY ELEVATION MARKER AREA & ASST. WTCOMO.

INDEX MAP

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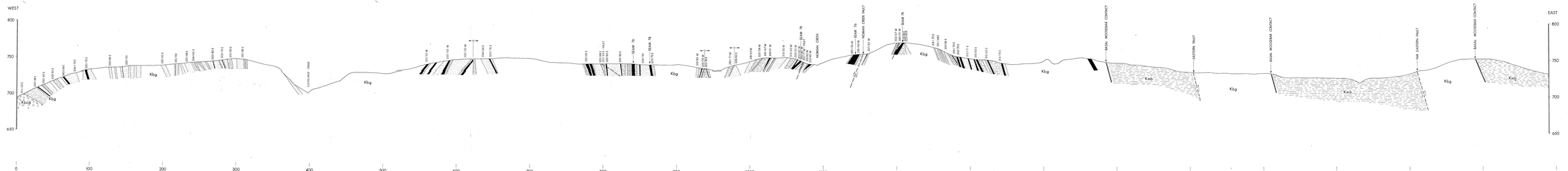
Crows Nest Resources Limited
EXPLORATION
DIV.
NOMAN CREEK
GEOLOGICAL MAP
(4 of 5)

DATUM: 5 Longitude
Lat. 49° 45' 00" N.
Long. 114° 00' 00" W.

SCALE: 1 = 5000
REVISED:

DRAWN BY: N.

HD-79A



LEGEND

- Keb — Moosebar Fm.
- Kbg — Gething Fm.
- Kbcd — Cadomin Fm.
- Shale / Mudstone
- Sandstone / Siltstone
- Coal Seam
- Conglomerate
- Overburden
- Fault

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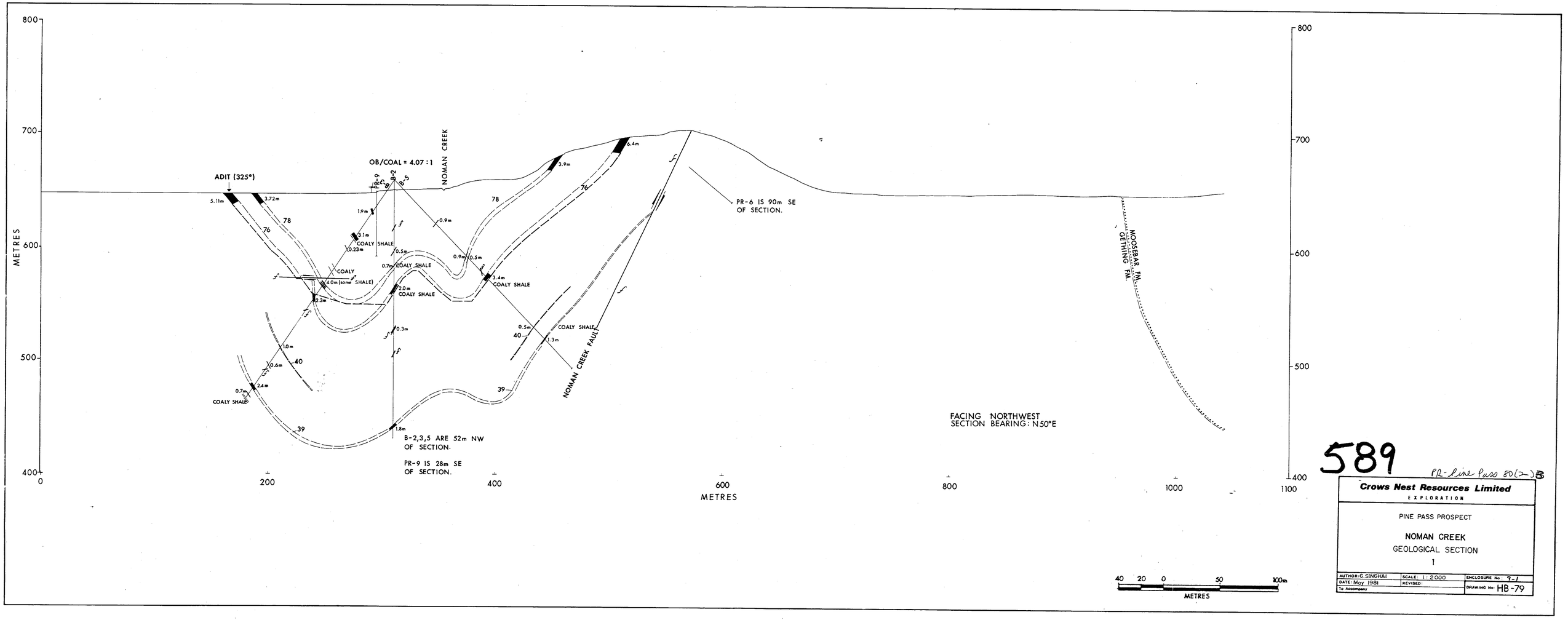
Crows Nest Resources Limited

EXPLORATION

PINE PASS
N.E. B.C.

SECTION FROM CADOMIN / GETHING CONTACT TO GETHING / MOOSEBAR CONTACT

AUTHOR: G. SINGHAL	SCALE: 1:1000	ENCLOSURE No.: 8	
DATE: 25-05-79	REVISED:	DRAWING No.: HK-77	
TO ACCOMPANY			



589

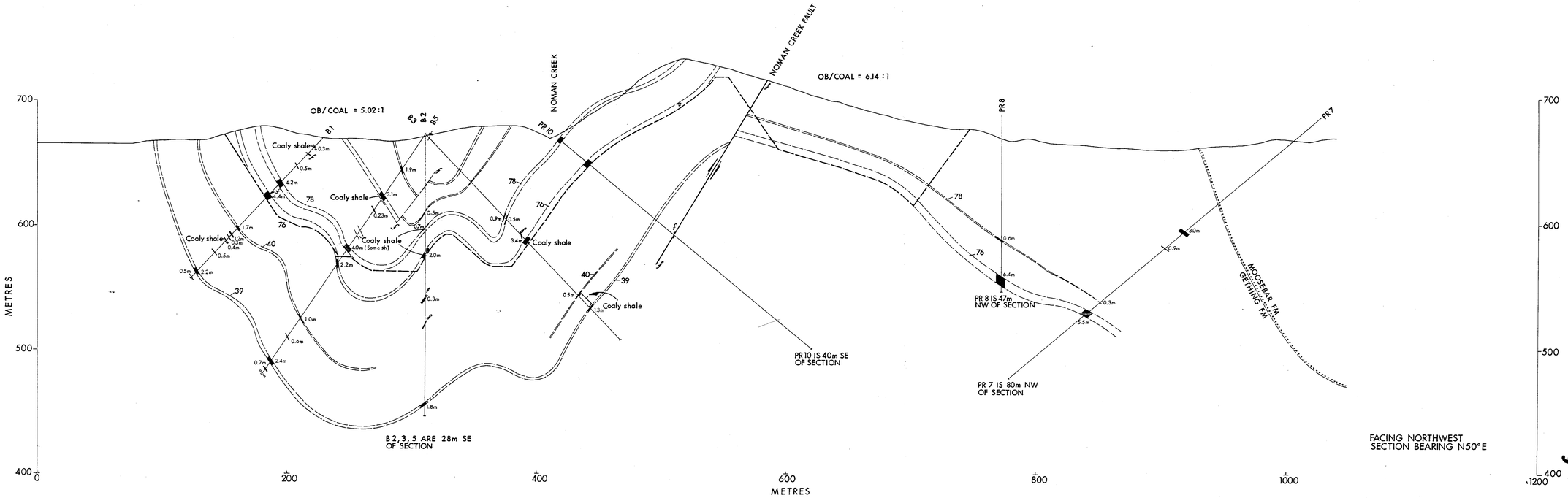
PR-Line Pass 50(2-)

Crows Nest Resources Limited
EXPLORATION

PINE PASS PROSPECT

NOMAN CREEK
GEOLOGICAL SECTION
1

AUTHOR: G. SINGHAI	SCALE: 1:2000	ENCLOSURE No: 9-1
DATE: May 1981	REVISED:	DRAWING No: HB-79
To Accompany		



FACING NORTHWEST
SECTION BEARING N50°E

40 20 0 50 100m
METRES

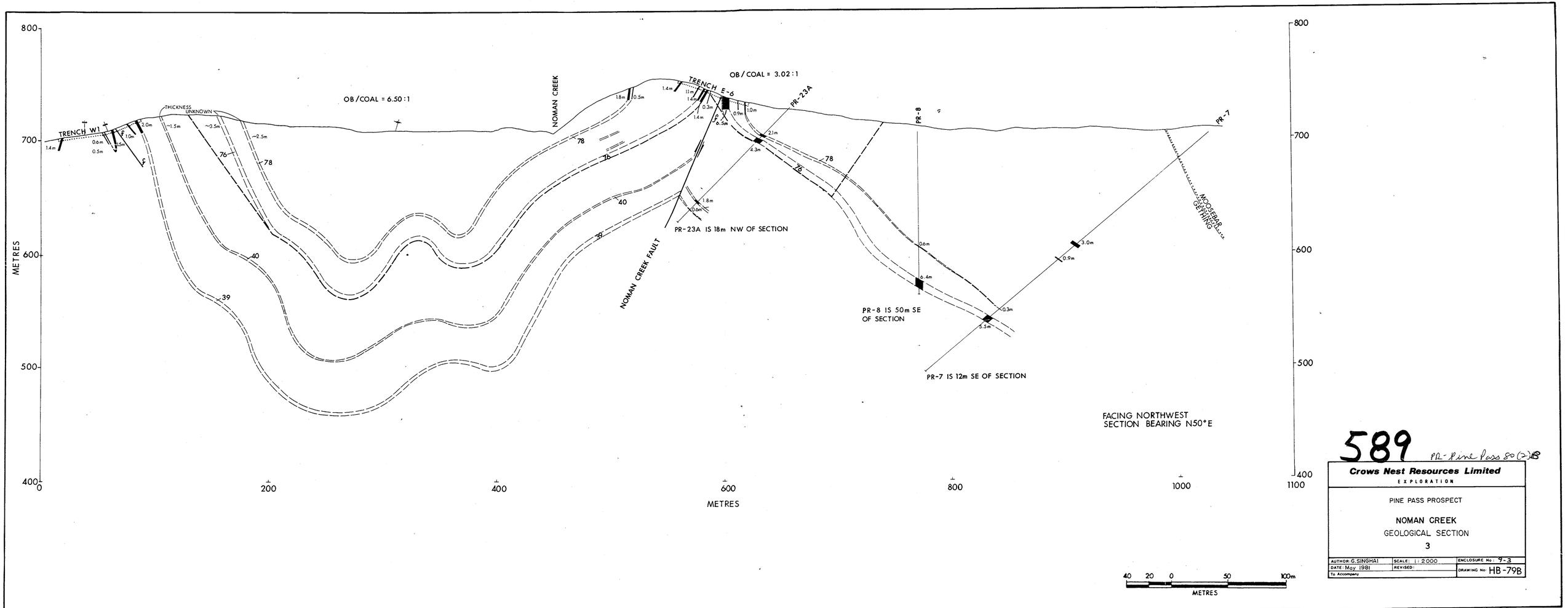
589 PR-Pine Pass 80(2)B

Crows Nest Resources Limited
EXPLORATION

PINE PASS PROSPECT

NOMAN CREEK
GEOLOGICAL SECTION
2

AUTHOR: G. SINGHAI	SCALE: 1 : 2000	ENCLOSURE No: 9-2
DATE: May 1981	REVISED:	DRAWING No: HB-79A
To Accompany		



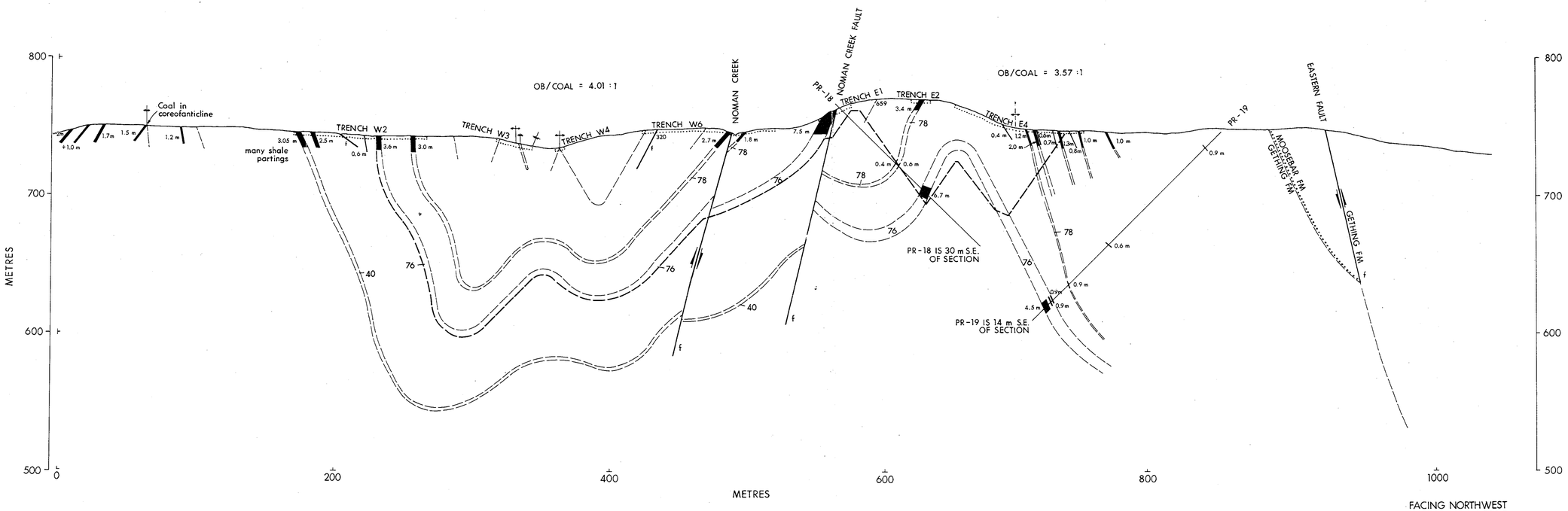
589 PR-Pine Pass 80(2)18

Crows Nest Resources Limited
EXPLORATION

PINE PASS PROSPECT

NOMAN CREEK
GEOLOGICAL SECTION
3

AUTHOR: G. SINGHAI	SCALE: 1:2000	ENCLOSURE No: 9-3
DATE: May 1981	REVISED:	DRAWING No: HB-79B
To Accompany		



FACING NORTHWEST
SECTION BEARING : N 50° E

589 PR-Pine Pass 80(2)B

Crows Nest Resources Limited
EXPLORATION

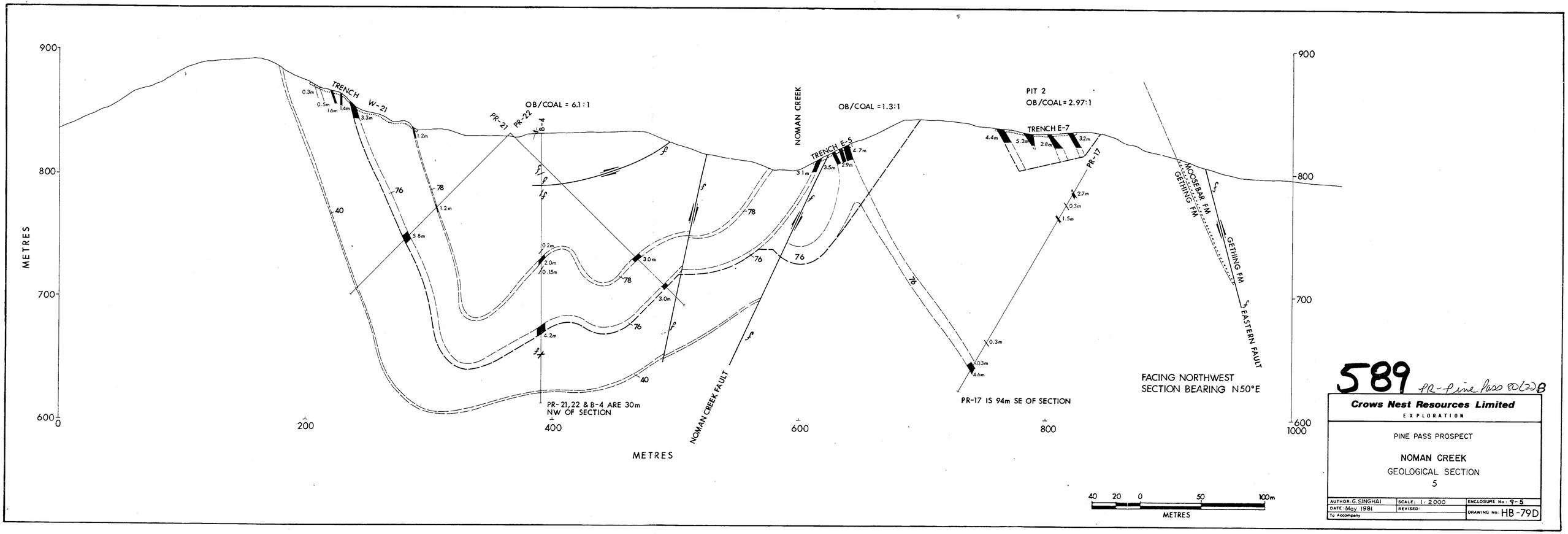
PINE PASS PROSPECT

NOMAN CREEK

GEOLOGICAL SECTION

4

AUTHOR: G. SINGHAI	SCALE: 1:2000	ENCLOSURE No.: 9-4
DATE: May 1981	REVISED:	DRAWING No: HB-79D
To Accompany		



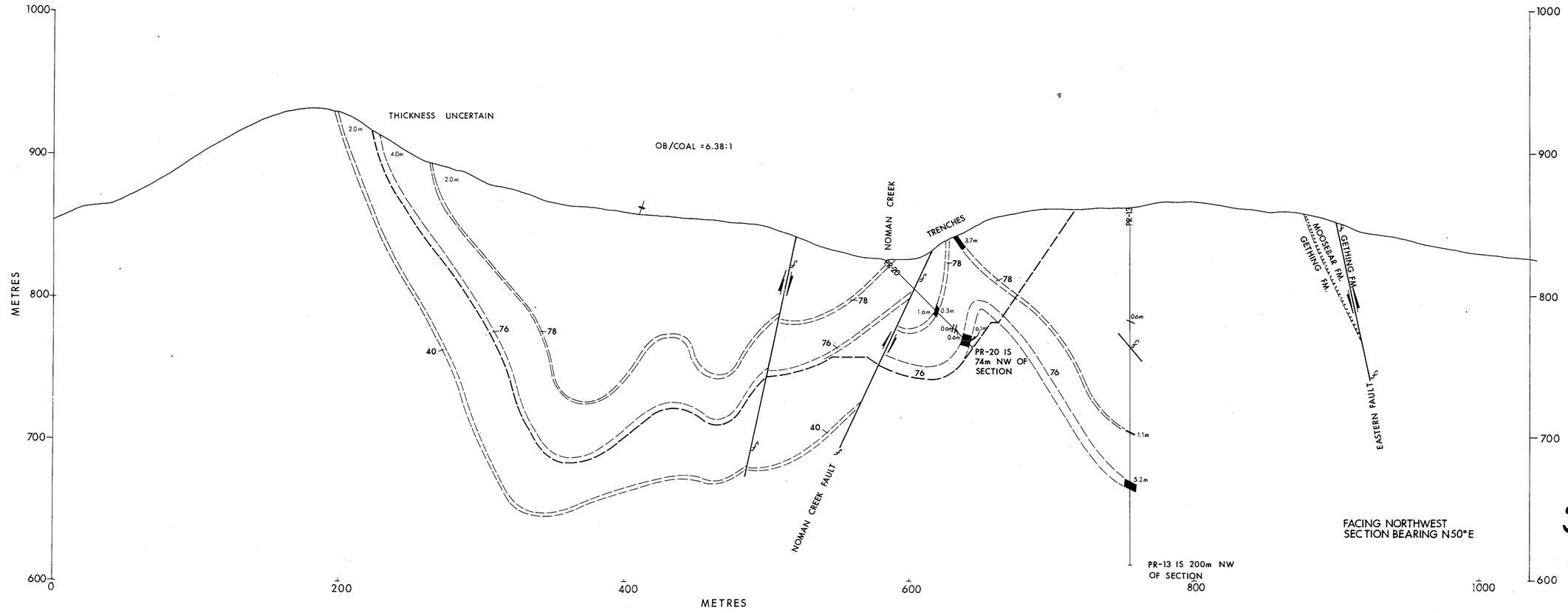
589 PR-Pine Pass 80(22)B

Crows Nest Resources Limited
EXPLORATION

PINE PASS PROSPECT

NOMAN CREEK
GEOLOGICAL SECTION
5

AUTHOR: G. SINGHAI	SCALE: 1 : 2000	ENCLOSURE No: 9-5
DATE: May 1981	REVISED:	DRAWING No: HB-79D
To Accompany		



FACING NORTHWEST
SECTION BEARING N50°E

40 20 0 50 100m
METRES

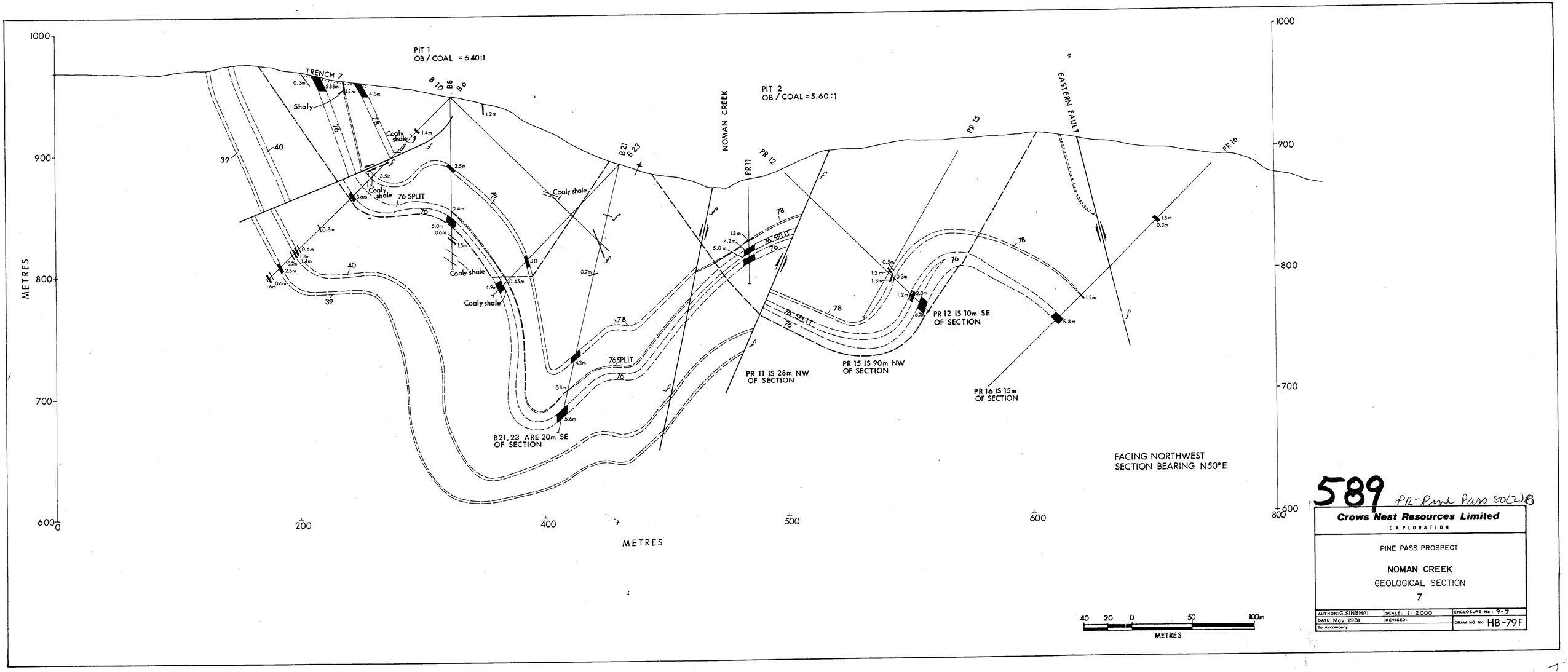
589 PR- Pine Pass 80(22)B

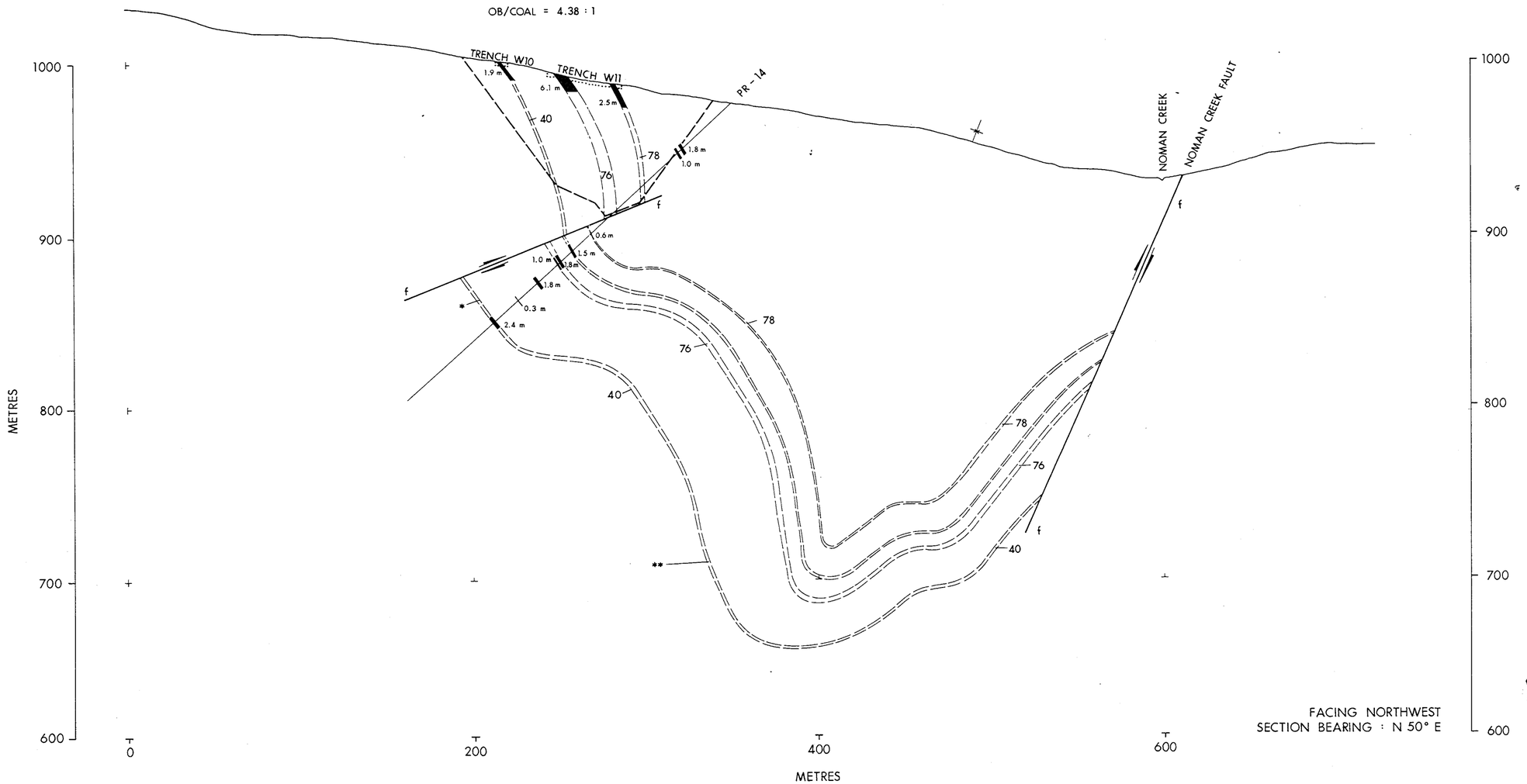
Crows Nest Resources Limited
EXPLORATION

PINE PASS PROSPECT

NOMAN CREEK
GEOLOGICAL SECTION
6

AUTHOR: G. SINGHAI	SCALE: 1:2000	ENCLOSURE No: 9-6
DATE: May 1981	REVISED:	DRAWING No: HB-79E
To Accompany		


PIT 1
OB / COAL = 6.40:1
PIT 2
OB / COAL = 5.60:1
TRENCH 7
Shaly
Coaly shale
76 SPLIT
B 10
B8
B6
B21
B23
NOMAN CREEK
PR 11
PR 12
PR 15
PR 16
EASTERN FAULT
B21, 23 ARE 20m SE OF SECTION
PR 11 IS 28m NW OF SECTION
PR 15 IS 90m NW OF SECTION
PR 12 IS 10m SE OF SECTION
PR 16 IS 15m OF SECTION
FACING NORTHWEST
SECTION BEARING N50°E
METRES
METRES
METRES
589
PR-Pine Pass 80(2)B
Crows Nest Resources Limited
EXPLORATION
PINE PASS PROSPECT
NOMAN CREEK
GEOLOGICAL SECTION
7
AUTHOR: G. SINGHAI
DATE: May 1981
To Accompany
SCALE: 1:2000
REVISED:
ENCLOSURE No: 9-7
DRAWING No: HB-79F



FACING NORTHWEST
SECTION BEARING : N 50° E

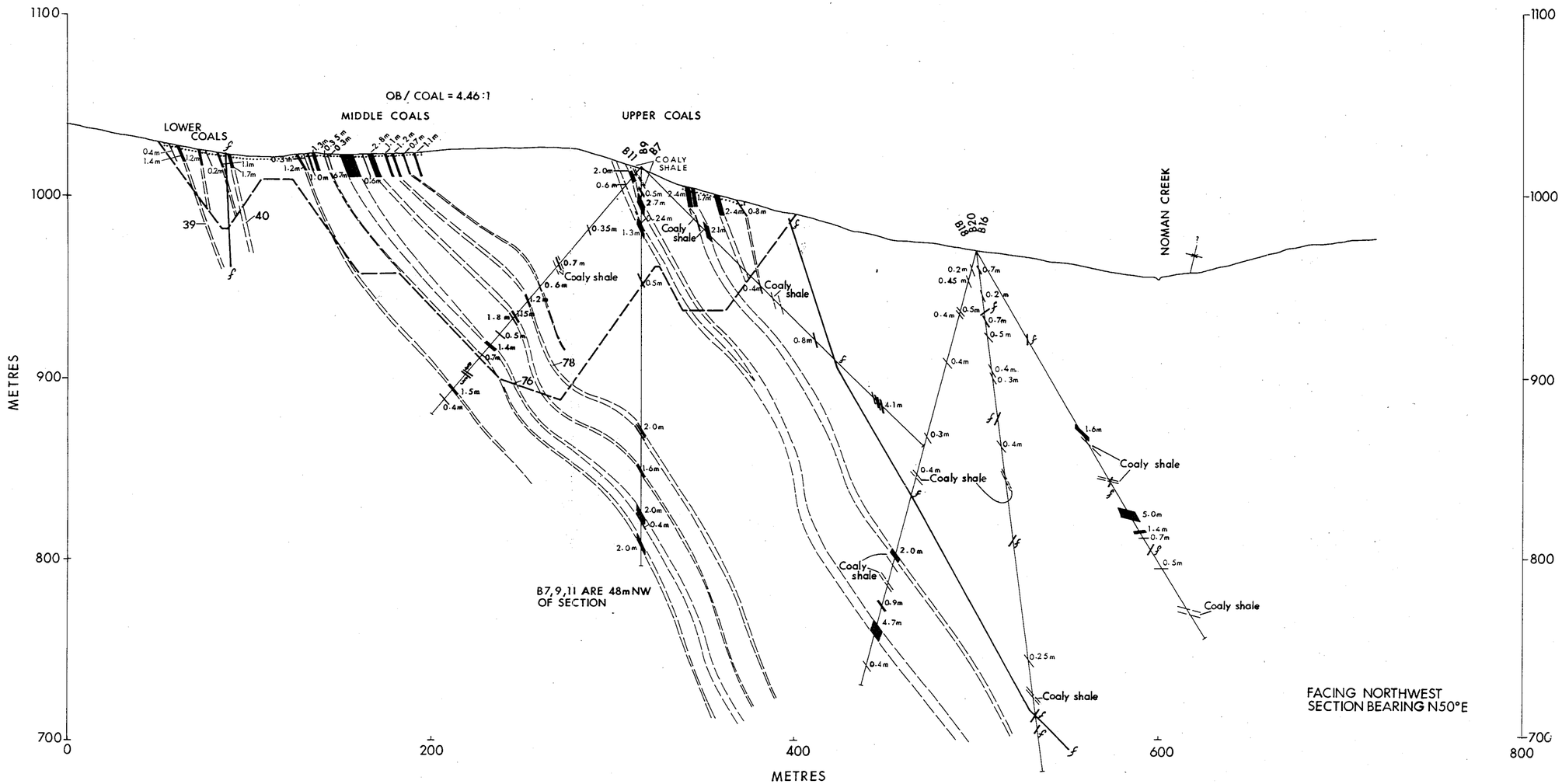
589 PR-Pine Pass 80(2)B

Crows Nest Resources Limited
EXPLORATION

PINE PASS PROSPECT

NOMAN CREEK
GEOLOGICAL SECTION
8

AUTHOR: G. SINGHAI	SCALE: 1 : 2000	ENCLOSURE No.: 9-8
DATE: May 1981	REVISED:	DRAWING No: HB-79G
To Accompany		



FACING NORTHWEST
SECTION BEARING N50°E

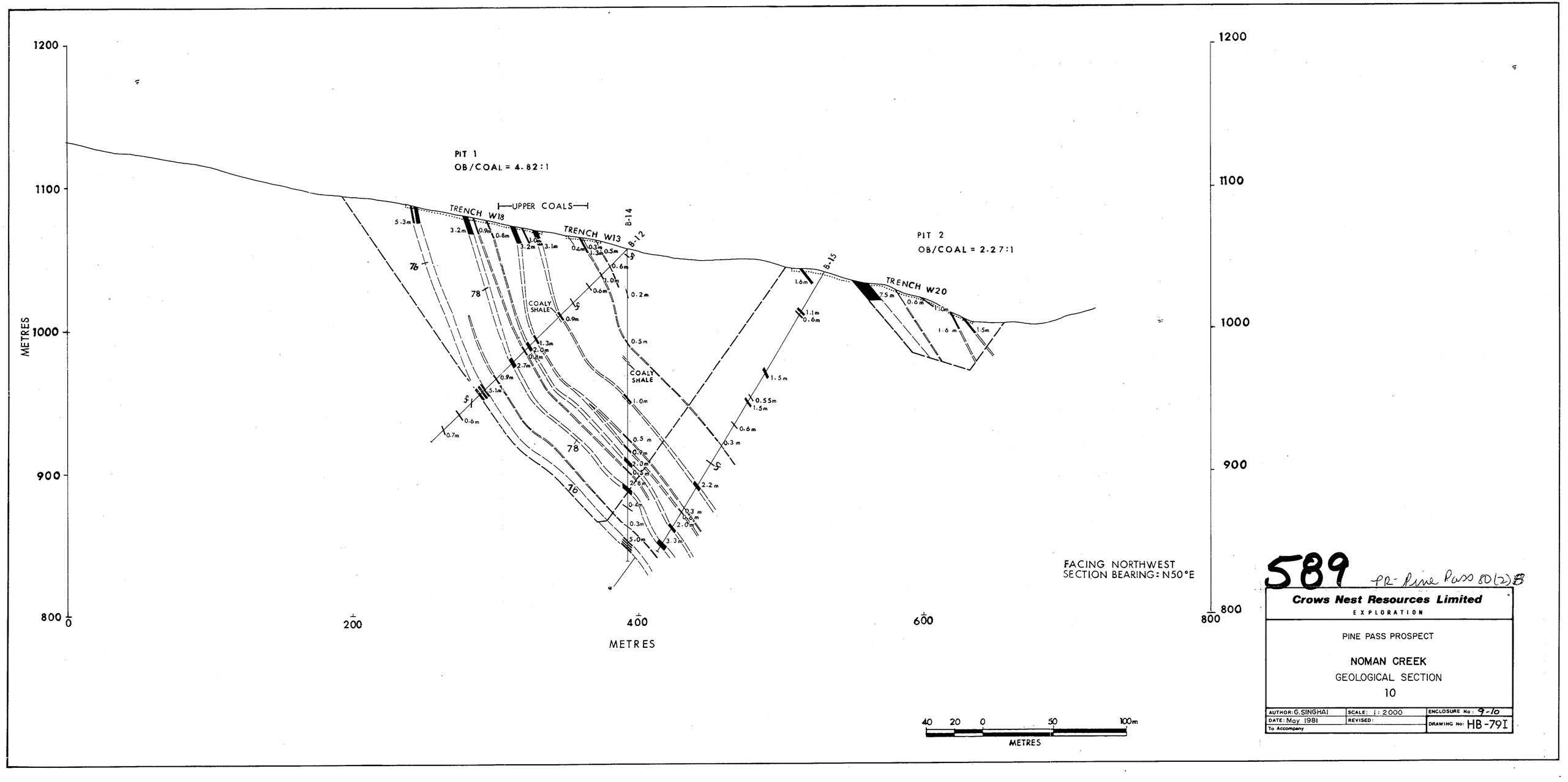
589 PR-Pine Pass 80(2)

Crows Nest Resources Limited
EXPLORATION

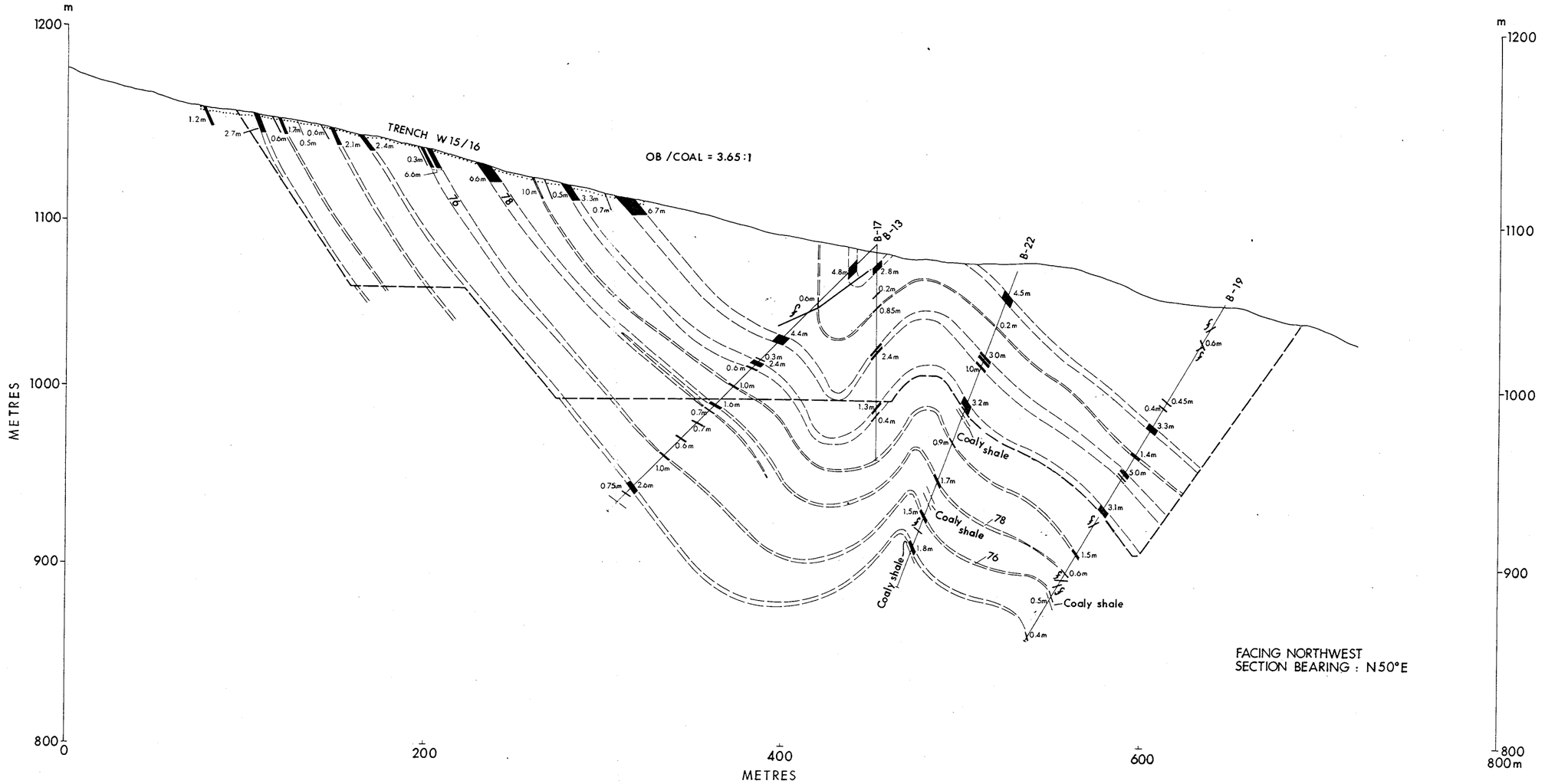
PINE PASS PROSPECT

NOMAN CREEK
GEOLOGICAL SECTION
9

AUTHOR: G. SINGHAI	SCALE: 1:2000	ENCLOSURE No.: 9-9
DATE: May 1981	REVISED:	DRAWING No: HB-79H
To Accompany		



589 PR- Pine Pass 80(2)B



589

PR- Pine Pass 80(2).B

Crows Nest Resources Limited

EXPLORATION

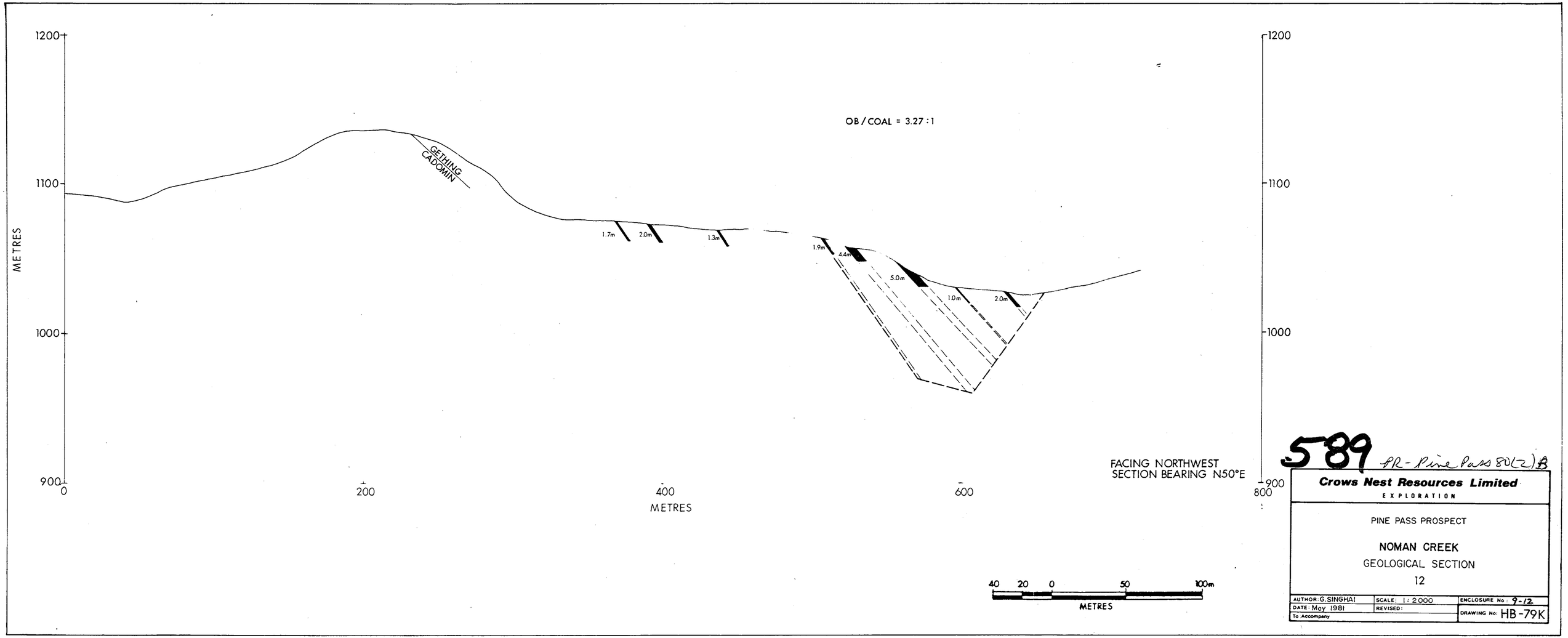
PINE PASS PROSPECT

NOMAN CREEK

GEOLOGICAL SECTION

11

AUTHOR: G. SINGHAI	SCALE: 1 : 2000	ENCLOSURE No: 9-11
DATE: May 1981	REVISED:	DRAWING No: HB-79 J
To Accompany		


1200
1100
1000
900
METRES
0
200
400
600
800
METRES
GETHING
CADOMIN
OB / COAL = 3.27 : 1
1.7m
2.0m
1.3m
1.9m
4.4m
5.0m
1.0m
2.0m
FACING NORTHWEST
SECTION BEARING N50°E
40 20 0 50 100m
METRES
589
AR - Pine Pass 80(2)B
Crows Nest Resources Limited
EXPLORATION
PINE PASS PROSPECT
NOMAN CREEK
GEOLOGICAL SECTION
12
AUTHOR: G. SINGHAI
DATE: May 1981
To Accompany
SCALE: 1 : 2000
REVISED:
ENCLOSURE No: 9-12
DRAWING No: HB-79K