

ex. 7(1)D

W E L D W O O D

OF CANADA LIMITED

OPEN FILE

PRELIMINARY REPORT

ON

QUINSAM EAST AND MIDDLE QUINSAM

COAL AREAS

WORK PERFORMED ON QUINSAM LICENSE AREAS - 1977

SUMMARY:

The Quinsam Licence Areas are broken down into two categories: The Middle Quinsam block and the Lower Quinsam block.

The Middle Quinsam block consists of 5 licenses, for a total of 2044 acres. The Lower Quinsam block consists of 15 licenses for a total of 6779 acres.

QUINSAM EAST LICENSE AREA

SUMMARY OF WORK:

Work performed in the Quinsam East Licence Area included 5400 feet of drilling (21 holes). Two of these locations were cored, for a total cored footage of 415 feet. This work was carried out on existing access.

COAL GEOLOGY:

One economic coal seam exists in the Lower Quinsam Area. This seam consists of three distinct tongues of coal, each one to three feet thick, separated by sandstone partings that vary greatly in thickness. The three coal stringers splay apart very rapidly in a south-easterly direction, as shown on the accompanying cross-section. This indicates a prograding deltaic situation. The Lower Quinsam coal seam is tentatively correlated with the No. 3 seam or later in relation to Middle Quinsam deposition.

STRUCTURE:

Limited information permits only a generalized structural interpretation: The major structural characteristics in the Lower Quinsam Area are a series of subparallel north-west to southeast trending normal faults that step away from the uplift separating the Lower Quinsam and Middle Quinsam Areas. Structural blocks in the area have a north-easterly dip of between 5 and 10 degrees. Faults in this area have vertical displacements in the order of tens of feet.

MIDDLE QUINSAM LICENCE AREA

SUMMARY OF WORK:

Work performed in the Middle Quinsam Licence Area during 1977 consisted of 1960 feet of drilling (18 holes), with three of these holes being cored (169 cored feet). All holes were geophysically logged with a combination gamma, density resistance tool.

In addition to the drilling and coring work, two 20 ton bulk samples were extracted, one from the No. 1 seam and one from the No. 2 seam. These samples were shipped to Cyclone Engineering Sales Ltd. in Edmonton, Alberta for attrition and washability tests.

COAL GEOLOGY:

Two seams are present in the Middle Quinsam Licence Area: The Lowermost seam, or No. 1 seam and the middle seam, or No. 2 seam. The No. 1 seam is the main seam and it averages 12 feet thick over the Licence Area, with a 1.5 foot shaly coal section at the base of the seam included. It usually contains one or two mudstone partings of 3 to 6 inches in thickness. The No. 2 seam occurs about 60 feet above the No. 1 seam stratigraphically, and it has an average thickness of 4 feet. It usually contains one or two thin mudstone partings also.

The No. 1 seam is found in the lower depositional cycle, while the No. 2 seam is found in the upper cycle. The lower depositional cycle consists of very fine grained siltstone of a brownish or greenish colour. This siltstone is the product of the weathering of the green coloured basaltic rocks of the Karmutsen Formation. The upper cycle consists of a fine to medium grained arkosic sandstone, which is light grey, interspersed with darker siltstone intervals.

MIDDLE QUINSAM LICENCE AREA, cont'd.

The predominant arkosic sandstones of the upper cycle indicate a granitic parent material, such as the granodiorites of the Island Intrusives, which are common in the Quinsam area.

The structure of the sedimentary sequence that contains the Quinsam coal measures in the Licence Area is relatively straightforward. A series of normal faults that parallels the two long lakes south of Middle Quinsam Lake, combined with some minor cross-faulting, has broken the thin wedge of sediments into numerous downthrown blocks. These blocks all have dips of 6 to 12 degrees to the North-East. Displacements along these fault zones vary from ten to forty vertical feet.

DRILLHOLE REPORT

COAL FIELD: Campbell River DATE: _____

COMPANY: Lexco

HOLE NO.: LQU -77-94 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 18,146,014.48 N 1,085,128.0 E

ELEVATION: 801.5

DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
0	4	till	
4	40	brown shale	coal stringer at 7'
40	93	grey sandstone	
93	99	carbonaceous shale	
99	104	siltstone	
104	120	brown shale	
120	130	grey shale	
130	140	green sandstone	

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River DATE: June 12, 1977

COMPANY: Lexco

HOLE NO.: LQU-92 ✓

APPROX. LOCATION: _____ SEC. ____ TWP ____ RGE. ____ W. ____

SURVEYED LOCATION: 18,146,866.81 N 1,084,692.94 E

ELEVATION: 766.3

DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
0	5	till	
5	71	grey sandstone	
71	77	coal	shale partings
77	80	grey sandstone	
80	120	brown shale	
T D	120		

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River DATE: June 13, 1977

COMPANY: Lexco

HOLE NO.: QU-77-91 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 18,143,898.7 N 1,092,988.43 E

ELEVATION: 597

DRILLER: D. Broen

FROM	TO	LOG	REMARKS
0	23	till	
23	50	brown sandstone	
50	92	grey sandstone	
92	98	brown shale	water at 97 ft. app. 15 gpm
98	107	grey sandstone	
107	110	brown shale	
110	116	coal	
116	129	brown shale	
129	148	coal with stringers of shale	
148	165	brown shale	

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River, B.C. DATE: June 11, 1977

COMPANY: Lexco

HOLE NO.: LQU-77-90 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 18,147,164.05 N 1,085,156.0 E

ELEVATION: 682.9

DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
0	6	till	
6	58	grey sandstone	
58	64	coal	shale partings
64	68	shale	
68	73	coal	"" ""
73	125	brown shale	
125	126	coal	
126	135	brown shale	
135	172	grey sandstone	
172	176	siltstone	
176	210	grey sandstone	
210	240	brown shale	carbonaceous shale stringers
240	250	grey shale	
250	270	green sandstone	
270	272	basalt	

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River, B.C. DATE: June 11, 1977

COMPANY: Lexco

HOLE NO.: QU-77-89 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 18,145,026.03 N 1,092,459.3 E

ELEVATION: 622.7

DRILLER: D. Broen

FROM	TO	LOG	REMARKS
0	22	till	
22	70	grey sandstone	
70	109	brown shale	
109	134	grey sandstone	
136	150	brown shale	
150	163	grey sandstone	
163	174	brown shale	
174	193	grey sandstone	
193	207	brown shale	
207	212	coal	
212	217	brown shale	
217	220	coal	
220	245	brown shale	

COMMENTS _____

DRILLHOLE REPORT

COAL FIELD: Campbell River, B.C. DATE: June 10, 1977

COMPANY: Lexco

HOLE NO.: QU-77-88 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 18,146,900.0 N 1,086,187.39 E

ELEVATION: _____

DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
0	8	till	
8	70	grey sandstone	
70	73	coal	
3	78	carbonaceous shale	Coal partings
78	80	siltstone	
80	84	coal	
84	87	brown shale	
87	95	grey sandstone	
95	155	brown shale	
145	224	grey sandstone	
224	240	siltstone	
140	268	grey shale	
268	278	green sandstone	
278	280	basalt	

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River DATE: June 9, 1977

COMPANY: Lexco

HOLE NO.: OU-77-87 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 18,145,646.5 N 1,088,895.6 E

ELEVATION: 663.3

DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
0	36	fill	
36	73	grey sandstone	coal stringers
73	78	carbonaceous shale	
78	85	siltstone	
85	154	grey sandstone	
154	157	coal	
157	159	siltstone	
159	164	carbonaceous shale	coal partings
164	169	coal	shale stringers
169	184	grey shale	
184	247	brown shale	
247	300	grey sandstone	
300	324	grey shale	
324	346	grey red shale	
346	350	green sandstone	
350	480	red grey shale	

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River DATE: May 28, 1977

COMPANY: Lexco

HOLE NO.: LQU-77-85 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 18,146,472.9 N 1,086,912 E

ELEVATION: 685

DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
0	42	till	
42	97	grey sandstone	
97	110	brown shale	
110	117	coal	
117	160	brown shale	
160	194	grey sandstone	
TD	194		

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River DATE: May 26, 1977
COMPANY: Lexco Testing
HOLE NO.: LQU -77-82 ✓
APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____
SURVEYED LOCATION: 18,147,013.1 N 1,088,590.0 E
ELEVATION: 682
DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
0	59	till	
59	72	brown shale	
72	109	red shale	
109	122	siltstone	
122	179	grey sandstone	
179	205	green grey sandstone	
205	209	coal	
209	228	brown shale	
248	252	coal	
252	275	brown shale	
275	305	grey shale	
305	334	green sandstone	
TD	334		

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River DATE: May 22, 1977

COMPANY: Lexco Testing

HOLE NO.: QU-77-77 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 18,146,570.0 N 1,088,770.0 E

ELEVATION: 694.1

DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
0	70	till	
70	71	coal	
71	82	brown shale	
82	83	coal	
83	87	brown shale	
87	95	siltstone	
95	259	grey sandstone	
TD	259		

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River DATE: May 19, 1977

COMPANY: Lexco Testing

HOLE NO.: QU-77-75 ✓

APPROX. LOCATION: _____ SEC. ____ TWP. ____ RGE. ____ W. ____

SURVEYED LOCATION: 18,146,028.85 N 1,082,857.61 E

ELEVATION: 872.3

DRILLER: D. Broen

FROM	TO	LOG	REMARKS
0	16	till	
16	123	brown shale	
123	140	grey sandstone	
140	156	green sandstone	
156	160	grey shale	
160	210	brown shale	
210	244	red shale	
244	265	basalt	

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River DATE: May 18, 1977

COMPANY: Lexco Testing

HOLE NO.: QU-77-74 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 18,146,143.4 N 1,088,092.9

ELEVATION: 670.0

DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
0	43	till	hard grey clay
43	64	grey sandstone	
64	74	coal	
74	127	brown shale	sandstone ledges
127	131	siltstone	
131	194	grey sandstone	
194	202	grey siltstone	
202	245	green siltstone	
245	251	green sandstone	
251	256	green sandstone	
256	272	grey sandstone	
272	283	green brown shale	
283	285	green siltstone	
285	307	green brown shale	
307	319	green siltstone	

COMMENTS _____

WATER HORIZON _____ FT _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River, B.C. DATE: May 16, 1977

COMPANY: Lexco Testing

HOLE NO.: QU-77-73 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 18,144,915.88 N 1,087,254.4 E

ELEVATION: 739.2

DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
0	8	gravel till	
8	57	grey sandstone	
57	75	grey siltstone	
75	92	brown grey shale	
92	93	coal	
93	135	red brown shale	
135	193	grey brown shale	
193	308	green siltstone	
308	312	basalt	

COMMENTS _____

LEXCO TESTING LTD

DRILLHOLE REPORT

LOCAL FIELD: Campbell River, B.C. DATE: May 13, 1977

COMPANY: Lexco Testing

HOLE NO.: QU-77-71 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 40+00 9683' Lt of B/L

ELEVATION: 1152'

DRILLER: D. Broen

FROM	TO	LOG	REMARKS
0	6	till	
6	60	sandstone	

COMMENTS _____

WATER HORIZON _____ FT. _____

EXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: _____ DATE: May 14, 1977

COMPANY: _____

HOLE NO.: LQ-77-70 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: _____

ELEVATION: _____

DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
282	292	Coal	Stringer of Brown shale
292	319	Brown shale	
319	327	Grey shale	
327	329	Coal	
329	379	Brown shale	Coal partings
379	398	Grey-brown shale	
398	416	Silkstone	
416	432	Brown-red shale	
432	492	Brown and grey shale	
492	499	Basalt	

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River DATE: May 14, 1977

COMPANY: Lexco Testing Ltd.

HOLE NO.: LQ-77-70 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: Mercator 18,152,723.1'N 1,082,638.6

ELEVATION: 596.9

DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
0	4	Till	
4	13	Red Shale	
13	23	Brown Shale	
23	75	Grey shale	Coal Stringers at 40' 42' 53'
75	79	Coal	
79	88	Brown Shale	
88	180	Grey sandstone	
180	205	Grey shale	
205	213	Brown shale	
213	230	Grey sandstone	
230	241	Grey shale	
241	244	Coal	
244	257	Brown shale	
257	260	Coal	
260	272	Brown shale	
272	276	Coal	
276	282	Brown shale	

COMMENTS _____

WATER HORIZON _____ FT. _____

DRILLHOLE REPORT

COAL FIELD: Cambell River DATE: April 27, 1977

COMPANY: Texco Testing

HOLE NO.: QU-77-65 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: Line 40+00 7088 ft of B/I

ELEVATION: 1179'

DRILLER: D. Boen

FROM	TO	LOG	REMARKS
0	114	sandstone	
114	121	coal	
121	134	brown shale	
134	170	brown sandstone	
170	183	coal	
183	200	brown sandstone	
200	225	basalt	

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Cambell River DATE: April 25, 1977

COMPANY: Lexco Testing

HOLE NO.: 04-77-61 Line 50 8000 ft left

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: Line 50+00 7941 Lt

ELEVATION: 1098'

DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
0	58	Till	
58	70	coal	
72	101	brown shale	
101	119	basalt	
TD	119		

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River DATE: April 24, 1977

COMPANY: Lexco Testing

HOLE NO.: GIL-77-50

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 38+03 9026 Lt of B/I.

ELEVATION: 1175.6'

DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
0	60	till	
60	92	grey sandstone	

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River DATE: April 27, 1977

COMPANY: Lexco Testing

HOLE NO.: OH-77-52 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: Line 35+00 9096 Lt of B/L

ELEVATION: 1180'

DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
0	43	Till	
43	71	Basalt	

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River DATE: April 27, 1977

COMPANY: Lexco Testing

HOLE NO.: QU-77-57

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: Line 35+00 8758.3 ft of B/I.

ELEVATION: 1122'

DRILLER: Vincett

FROM	TO	LOG	REMARKS
0	43	Till	2 coal stringers
43	76	Basalt	

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River DATE: April 17, 1977

COMPANY: Lexco Testing

HOLE NO.: OU-77-55 ✓

APPROX. LOCATION: Line 30+00 9000 Lt of B/L SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 30+00 8754.2 Lt. of B/L

ELEVATION: H. Vincett

DRILLER: _____

FROM	TO	LOG	REMARKS
0	45	Till	
45	47	granite	

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Cambell River DATE: April 18, 1977

COMPANY: Lexco Testing

HOLE NO.: Q1-77-52 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 35+00 9096' It of E/L

ELEVATION: 1180'

DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
0	3	till	
3	236	grey sandstone	
236	240	coal	
240	283	brown shale	
283	290	coal	
290	300	carbonaceous shale	
300	316	brown shale	
316	354	green sandstone	
354	380	basalt	

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River

DATE: April 15, 1977

COMPANY: Lexco Testing

HOLE NO.: QU-77-51 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 36+77 . 9743' Lt of B/I.

ELEVATION: 1180'

DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
0	9	till	
9	11	coal	
11	30	brown shale	
30	35	bisalt	

IMENTS _____

ER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River DATE: April 15, 1977

COMPANY: Lexco Testing

HOLE NO.: QU-77-49 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 36+81 0475' It of P/T

ELEVATION: 1175'

DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
0	10	till	
10	33	green sandstone	
33	40	basalt	

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Cambell River DATE: April 14, 1977

COMPANY: Lexco Testing

HOLE NO.: 211 - 77 - 48 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 36+39 0098' It of B/T.

ELEVATION: 1174'

DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
0	24	till	
24	41	sand	
41	50	coal	
50	75	brown shale	
75	80	green sandstone	

COMMENTS _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River DATE: April 12, 1977

COMPANY: Lexco Testing

HOLE NO.: 2U-77-47 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 47+78 9551' Lt of B/J,

ELEVATION: 1161'

DRILLER: D. Broen

FROM	TO	LOG	REMARKS
0	4	till	
4	45	brown shale	
45	61	coal	
61	65	brown shale	
65	88	grey sandstone	water at 120 ft app. 20 gal
88	104	red shale	per min.
104	125	basalt	

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD.

DRILL HOLE REPORT

COALFIELD: Campbell River DATE: March 9/77

COMPANY: Lexco

HOLE NO.: Core Hole Qu-77-34 C ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 45+00 7987.8' Lt. of B/L

ELEVATION: 1165.2'

DRILLER: D. Broen

FROM	TO	LOG	REMARKS
0	6	Boulders	Core #1-50-58
6	107	Sandstone	Core #2-58-62
107	117	Coal	Core #3-62-65.5
117	130	Brown Shale	Core #4-65.5-72
130	136	Sandstone	Core #5-72-81
136	167	Brown Shale	Core #6-81-90
167	176	Coal	Core #7-90-99
176	186	Shale with coal stringers	Core #8-101-110
186	200	Sandstone	Core #9-110-119
			Drilled from 119-164
			Core #10-164-171.5
			" " " 11-171.5-176.5
			" " " 12-176.5-185.5
			" " " 13-185.5-191
			" " " 14-191-200

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River

DATE: Feb 23, 1977

COMPANY: Lexco Testing

HOLE NO.: Line 45 QU-77-33 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 45+00 9499 T.t

ELEVATION: 1156

DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
0	7	Weathered sandstone	
7	15	grey sandstone	
15	20	siltstone	
20	35	coal	
35	47	brown shale	
47	73	gray shale	
73	168	basalt	

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

OAL FIELD: Campbell River DATE: Feb. 16, 1977
 COMPANY: Lexco Testing
 HOLE NO.: Qu-77-27 ✓
 APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____
 SURVEYED LOCATION: 3978 8464.7 It
 ELEVATION: 1178.6'
 DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
0	7	till	
7	56	grey sandstone	
56	62	coal	
62	65	carbonaceous shale	
65	70	grey sandstone	
70	81	brown shale	
81	90	grey sandstone	
90	196	brown shale	
106	116	coal	
116	123	carbonaceous shale	
123	140	grey sandstone	
140	180	basalt	

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

WELL FIELD: Campbell River DATE: Feb, 16, 1977

COMPANY: Lexco Testing

HOLE NO.: QU-77-26 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 45+00 8880 Lt of B/L

ELEVATION: 1194

DRILLER: D.. Broen

FROM	TO	LOG	REMARKS
0	5	boulders	
5	33	sandstone	
33	37	coal	
37	49	brown shale	
49	58	brown sandstone	
58	102	brown shale	
102	117	coal	
117	135	brown shale	
135	141	brown sandstone	
141	164	basalt	

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River DATE: February 15, 1977

COMPANY: Iexco

HOLE NO.: Qu-77-25 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 45+00 8444' Lt. of B/L

ELEVATION: 1163'

DRILLER: D. Broen

FROM	TO	LOG	REMARKS
0	10	Boulders	
10	51	Grey Sand Stone	
51	56	Coal	
56	81	Brown Shale	
81	95	Brown Sand stone	
95	118	" " Shale	
118	131	Coal	
131	136	Brown Shale	
136	140	Brown Silt Stone	
140	150	Brown Shale	
150	163	Brown Sand Stone	
163	184	Basalt	

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River DATE: Feb 12, 1977

COMPANY: Lexco Testing

HOLE NO.: QU-77-21 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 22+73 6750.2 Lt

ELEVATION: 1207.8'

DRILLER: D. Broen

FROM	TO	LOG	REMARKS
0	11	boulders	
11	38	sand stone	
38	40	carbonaceous shale	
40	45	sandstone	
45	46	carbonaceous shale	
46	118	grey sandstone	
118	121	carbonaceous shale	
121	151	green siltstone	
151	204	basalt	

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River DATE: Feb 9, 1977

COMPANY: Lexco Testing

HOLE NO.: QU-77-16 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 45+00 7543 1st

ELEVATION: 1146

DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
0	3	Till	
3	102	gray sandstone	
102	106	brown shale	
106	109	coal	
109	167	brown shale	
167	172	coal with shale partings	
172	182	coal	
182	206	brown shale	
206	212	gray sandstone	
212	218	green sandstone	
218	240	basalt	

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD.

DRILL HOLE REPORT

COALFIELD: Campbell River DATE: Jan 23-77

COMPANY: Lexco Testing

HOLE NO.: QU-77-12 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 30+00 6320.6 Lt

ELEVATION: _____ 1174.8

DRILLER: J.L. Lodoen

FROM	TO	LOG	REMARKS
0	4	till	
4	27	sandstone	
27	32	brown and carbonaceous shale	traces of coal
32	48	sandstone	
48	52	brown shale	
52	82	sandstone	
82	85	coal partings of carbonaceous shale	
85	87	grey shale stringers of sandstone	
87	117	siltstone	
117	119	brown shale	
119	259	siltstone	
259	263	coal	
263	272	brown shale	
272	282	brown and carbonaceous shale	
282	296	coal partings of brown shale	
296	310	brown shale	
310	326	green sandstone	
326	331	basalt	

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River DATE: June 19, 1977

COMPANY: Lexco Testing Ltd.

HOLE NO.: LQU-77- 93

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 18,144,503.7 N 1,089,608.0 E

ELEVATION: 616.7

DRILLER: _____

FROM	TO	LOG	REMARKS
0	14	Till	
14	26	Grey sandstone	
26	27	Coal	
27	37	Brown shale	
37	112	Grey sandstone	
112	117	Coal	
117	119	Brown shale	
119	122	Coal	
122	145	Brown shale, with stringer of coal	
145	157	Brown sandstone	
157	165	Red shale	

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Cambell River DATE: June 22, 1977

COMPANY: Lexco Testing Ltd.

HOLE NO.: LQU-77-95 ✓

APPROX. LOCATION: _____ SEC. ____ TWP. ____ RGE. ____ W. ____

SURVEYED LOCATION: 18,143,819 N 1,090,321 E

ELEVATION: 632

DRILLER: D. Broen

FROM	TO	LOG	REMARKS
0	22	Till	
22	41	Brown shale	
41	161	Grey sandstone	
161	168	Coal	
168	170	Brown shale	
170	173	Coal	
173	175	Brown shale	
175	178	Coal	
178	205	Brown shale	

COMMENTS _____

LEXCO TESTING LTD DRILLHOLE REPORT

COAL FIELD: Campbell River DATE: June 16, 1977

COMPANY: _____

HOLE NO.: LQU-77-96 ✓

APPROX. LOCATION: _____ SEC. ____ TWP. ____ RGE. ____ W. ____

SURVEYED LOCATION: 18,143,111.25 N 1,096,388.24 E

ELEVATION: 574.1

DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
0	38	Till	
38	42	Brown shale	
42	100	Grey sandstone	
100	232	Grey silkstone	
232	238	Grey shale	
238	243	Brown shale	
243	245	Coal	Shale partings
245	270	Brown shale	
270	278	Coal	
278	320	Brown shale	
320	340	Grey shale	

COMMENTS Flowing hole

WATER HORIZON 60' FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River DATE: June 20, 1977

COMPANY: Lexco Testing Ltd.

HOLE NO.: LQU-77-98 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 18,140,879.8 N 1,097,566.56

ELEVATION: 575.5

DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
0	21	Till	
21	60	Grey sandstone	
60	74	Grey silkstone	
74	76	Grey shale	
76	110	Grey sandstone	
110	197	Grey silkstone	
197	199	Coal	
199	206	Grey silkstone	
206	208	Coal	
208	229	Grey shale	
229	234	Coal	
234	236	Silkstone	
236	240	Carbonaceous shale	
240	330	Brown grey shale	
330	340	Grey sandstone	
T.D.	340		

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Cambell River DATE: June 22, 1977

COMPANY: Lexco Testing Ltd.

HOLE NO.: LQ-77-100 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 18,142,544' N. 1,094,701' E

ELEVATION: 659

DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
0	24	Till	
24	98	Grey sandstone	
98	142	Silkstone	
142	144	Coal	
144	160	Silkstone	
160	167	Coal	
167	170	Grey shale	
170	171	Coal	
171	182	Silkstone	
182	190	Coal	
190	217	Brown shale	
217	219	coal	
219	226	Brown shale	
226	228	Coal	
228	258	Brown shale	Coal stringer 245'
258	259	Coal	

COMMENTS _____

WATER HORIZON _____ FT. _____

LEXCO TESTING LTD

DRILLHOLE REPORT

JAL FIELD: Campbell River DATE: June 22, 1977

COMPANY: _____

HOLE NO.: LQ-77-100 ✓

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: _____

ELEVATION: _____

DRILLER: H. Vincett

FROM	TO	LOG	REMARKS
259	280	Brown shale	
280	288	Silkstone	
288	300	Red silkstone	
300	320	Grey silkstone	

COMMENTS _____

WATER HORIZON 92 FT. 4 gallon

LEXCO TESTING LTD

DRILLHOLE REPORT

COAL FIELD: Campbell River DATE: June 23, 1977

COMPANY: Lexco Testing Ltd.

HOLE NO.: LQU 77-99

APPROX. LOCATION: _____ SEC. _____ TWP. _____ RGE. _____ W. _____

SURVEYED LOCATION: 18,139,862 N 1,095,917 E

ELEVATION: 578

DRILLER: D. Broen

FROM	TO	LOG	REMARKS
0	34	Grey sandstone	
34	37	Coal	
37	42	Brown shale	
42	44	Coal	
44	60	Brown shale	
60	65	Coal	
65	75	Brown shale	
75	80	Grey sandstone	
80	101	Brown shale	
101	103	Coal	
103	117	Brown shale	
117	120	Coal	
120	145	Brown shale	

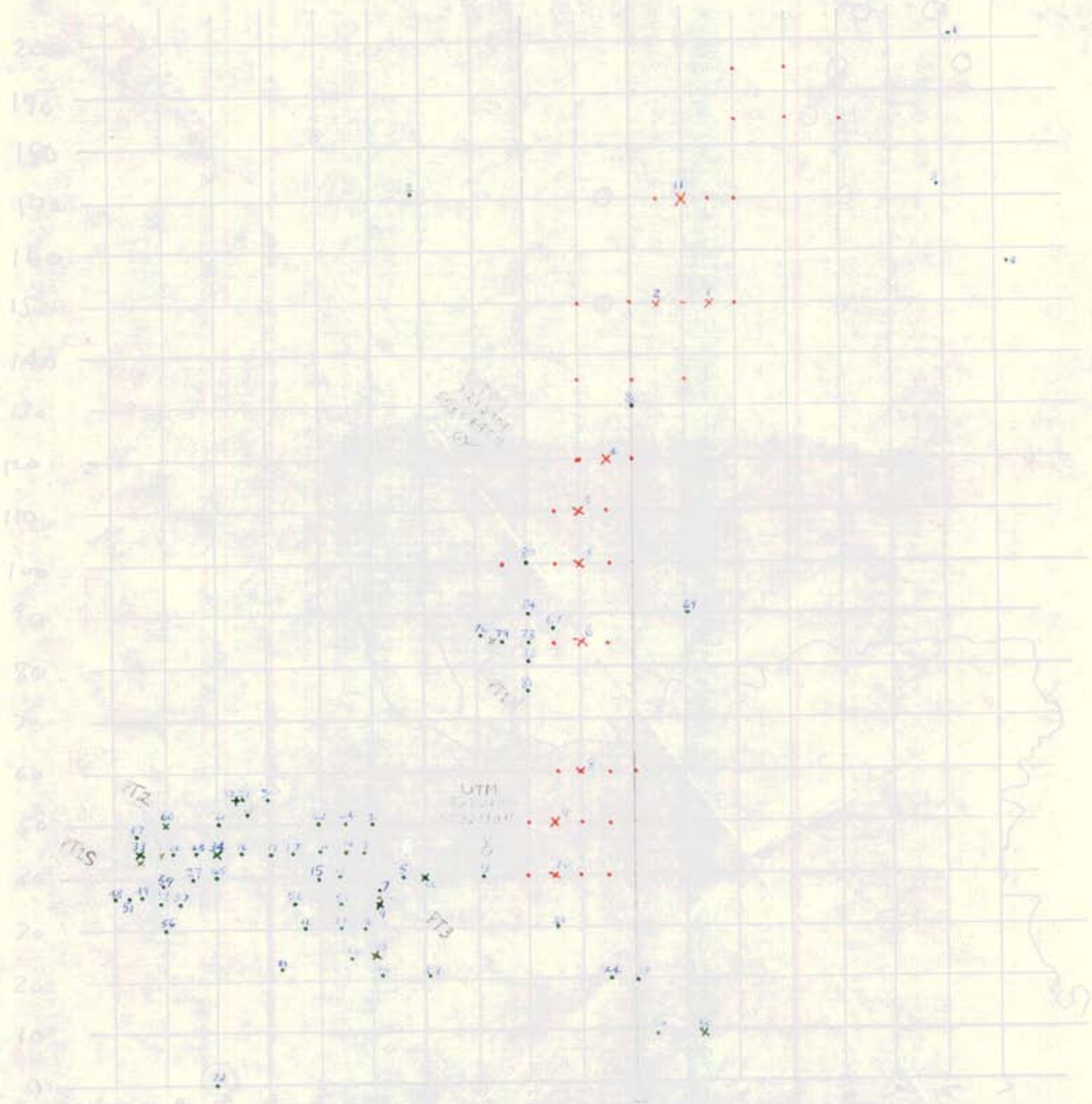
COMMENTS _____

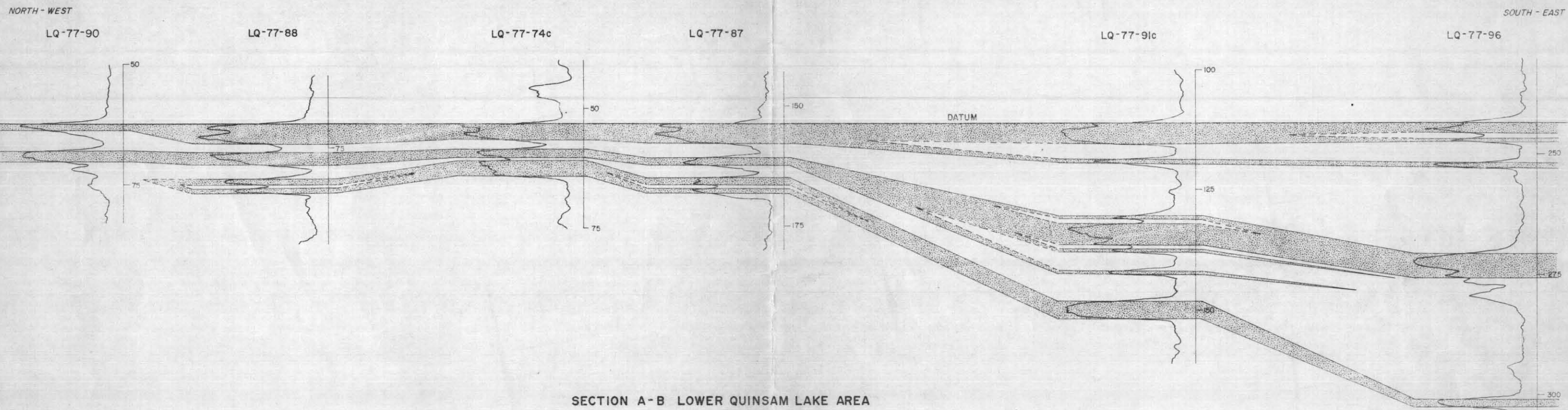
WATER HORIZON _____ FT. _____

BL

Pre-1977 holes Q4-77-

1977 holes CH-





SECTION A-B LOWER QUINSAM LAKE AREA

REFERENCE DRAWINGS	ISSUE	DATE	INITIALS	REVISIONS

LUSCAR LTD.

QUINSAM PROPERTY

LEGEND:

COAL

50' DEPTH

DATUM - TOP OF COAL ZONE

SCALE		TITLE	
1" = 800'	HORIZONTAL		
1" = 10'	VERTICAL	BY	DATE
		D. L.	JUNE 22/77
		CHECKED	
		APPROVED	
		1st ISSUED	

SECTION A-B

LOWER QUINSAM LAKE AREA

FIGURE B

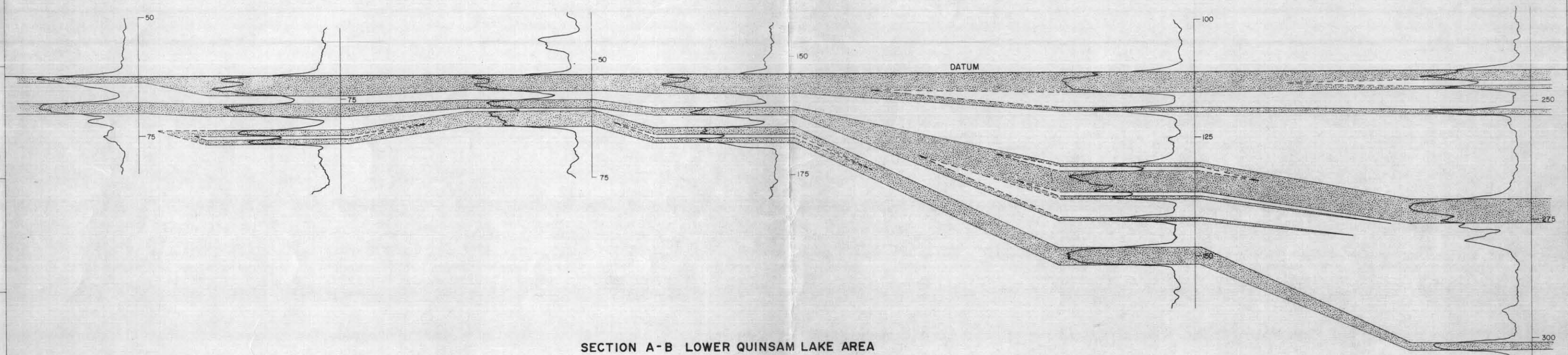
DRAWING NO.
ISSUE

68

NORTH - WEST

SOUTH - EAST

LQ-77-90 LQ-77-88 LQ-77-74c LQ-77-87 LQ-77-91c LQ-77-96



SECTION A-B LOWER QUINSAM LAKE AREA

57K

REFERENCE DRAWINGS	ISSUE	DATE	INITL	REVISIONS

LUSCAR LTD.

QUINSAM PROPERTY

LEGEND:

COAL

50 - DEPTH

DATUM - TOP OF COAL ZONE

SCALE		TITLE	
1" = 800'	HORIZONTAL	SECTION A-B	
1" = 10'	VERTICAL	LOWER QUINSAM LAKE AREA	
			FIGURE 8
DRAWN	BY	DATE	
CHECKED	D. L.	JUNE 22/77	
APPROVED			
1st ISSUED			

DRAWING NO.
ISSUE

copy 2