

WELDWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

31
694
80.
12

BOREHOLE NO. - Headquarters Creek #1 HC-1
 LOCATION - ~~Anderson Lake Area~~ CUMBERLAND
 ELEVATION - 250
 DATE - June 1975

Type of Cuttings	FEET	
	FROM	TO
Grey Shale - small sandstone stringers	0	38
Grey Siltstone	38	75
Hard Grey Siltstone	75	112
Grey Shale	112	126
Hard Grey Siltstone	126	174
Dark Gryn Sandstone - hard	174	175
Hard Grey Siltstone	175	239
Grey Siltstone	239	257
Grey Sandstone	257	262
Grey Silty Shale	262	356
Grey Sandstone	356	361
Grey Siltstone	361	376
Hard, Dark Grey Siltstone	375	426
Hard Sandstone	426	480
Grey Sandstone	480	675
Sandstone - grey, hard	675	690
Siltstone, dark grey	690	709
Sandstone	709	717

CAMBELL RIVER

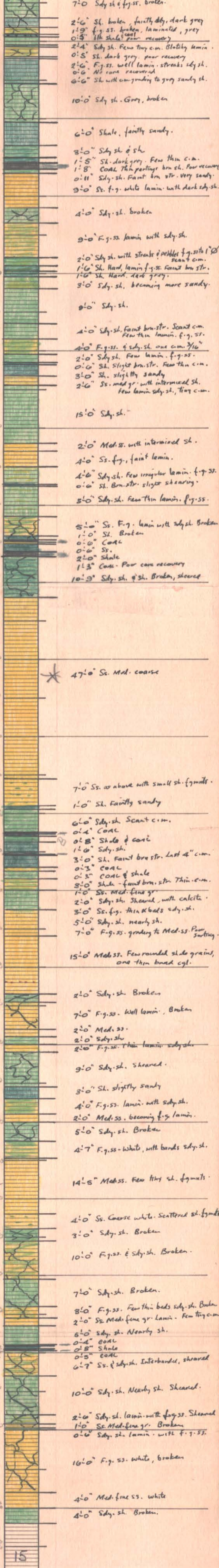
B.H. 15 **CR-15**

STATE		COMPANY	EL. 350' <u>T</u>
COUNTY		FARM	
BLOCK		WELL NO.	
SEC.		SURVEY	
T.	R.	TOTAL DEPTH	
		CONTRACTOR	
		COMMENCED	
		COMPLETED	
ALTIMUDE		REMARKS	
PRODUCTION			

CASING RECORD

5 1/2"	10"
8 1/4"	
6 3/4"	
SHOT	QUARTS BETWEEN

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



32 TSABLE B.H. 53X
"A" core
NEWCASTLE DISTRICT
Depth 64'

TR-53X

13
0

1'6" gravel

C. mks @ 7'4"

20

56'4" ss

40

60

7" sand
6" coal
7" sand
12" coal
1'0" ss w conch
1'3" ss.

80

00694

Cowie Creek TR-58

STATE		COMPANY	B.H. 58
COUNTY		FARM	El. 684.1
BLOCK		SURVEY	NEWCASTLE DISTRICT
SEC.			
T.	R.		TOTAL DEPTH
			255'
		CONTRACTOR	
		REMARKS	
ALTITUDE		684'	
PRODUCTION			

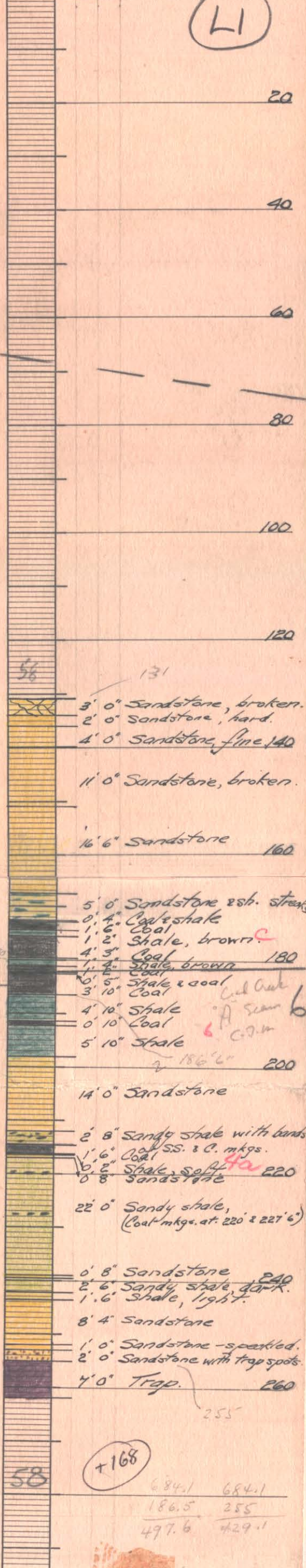
CASING RECORD

00694

10"		
8 1/4"		
6 3/8"		
5 1/2"		
5 1/4"		
SHOT	QUARTS	BETWEEN

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa

L1



+168

684.1	684.1
186.5	255
497.6	429.1

58

684.1

WELDWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

33
694
85
14

BOREHOLE NO. - Trent River #1 **TRR-1**
 LOCATION - Cumberland Area
 ELEVATION - 460
 DATE - May 1975

<u>Type of Cuttings</u>	FEET	
	FROM	TO
Silt-Till - cobbles, sand, boulders	0	11.8
Grey Shale	11.8	57.5
Grey Sandstone - hard	57.5	61.8
Grey Shale - slight water at 62'	61.8	72
Hard Sandstone	72	74.5
Soft, Grey Sandstone	74.5	86
Grey Shale	86	88.6
Grey Sandstone	88.6	101
Grey Shale	101	103
Grey Sandstone	103	243.8
Carbonaceous Shales - few thin coal bands	243.8	250.5
Grey Sandstone - mostly soft - odd shale stringer	250.5	352.4
Shaley Siltstone	352.4	362
Grey Shale	362	366
Shaley Siltstone	366	373.6
Grey Coarse Sandstone	373.6	416
Grey Shale	416	417.5
Coal Stringer - shale	417.5	418.8
Grey Shale	418.8	421
Grey Sandstone	421	436
Grey Siltstone	436	442
Grey Shale-Coal Stringers	442	445.6
Grey Siltstone	445.6	447
Grey and Brown Siltstone - carbonaceous shale stringers to 452'	450	457
Grey Sandstone	457	504.8
Carbonaceous Shales	504.8	511
Grey Sandstone	511	532
Grey Siltstone	532	559.5
Grey and Brown Shales - odd coal stringer	559.5	567
Grey Shale - coal traces	567	576
Grey Sandstone	576	636
Grey Shale - coal stringers	636	644.2
Grey Silty Shale	644.2	648
Grey Siltstone	648	651
Green Sandstone - (Basalt)	651	664

HPD

WELDWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Trent River #2 TRR-2
 LOCATION - Cumberland Area
 ELEVATION - 760
 DATE - May 1975

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Soft Grey Sandstone	0	9
Hard Grey Sandstone	9	11
Soft Grey Sandstone	11	34
Hard Grey Sandstone	34	37
Soft Grey Sandstone	37	49
Grey Sandstone	49	124
Coal	124	124.8
Grey Silty Shale	124.8	126
Coal	126	128
Grey Shale	128	129.5
Coal	129.5	130
Sandstone	130	198
Grey Shale	198	199.2
Grey Sandstone	199.2	215
Hard Sandstone - dark grey	215	223
Siltstone - grey black	223	228.5
Siltstone and Shale with coal stringers	228.5	240
Sandstone and Shale - grey	240	287
Coal	287	288.5
Shale and Siltstone - black	288.5	290
Soft Siltstone	290	312
Hard Grey Sandstone	312	329
Grey Sandstone	329	335
Shaley Coal	335	343
Grey Shale	343	344.4
Sandstone	344.4	380
Grey Shale	380	384
Dark Sandstone	384	385
Grey Sandstone	385	389
Dark Sandstone	389	389.6
Dark Shale	389.6	390.6
Dark Sandstone	390.6	397
Sandstone	397	424
Shale	424	427
Grey Sandstone	427	451

cont'd ...

Borehole No. 2 - Trent River

87.

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Shale - coal stringers	451	453.9
Sandstone	453.9	501
Coal	501	505.4
Grey Sandstone	505.4	510
Coal	510	513
Shale - coal stringers	513	515
Grey Shale - soft, light grey	515	519
Hard Sandstone - silty	519	522
Hard Sandstone - grey black	522	525
Basalt	525	534.9

CREAT LOGS
FORMATION DENSITY LOG

COMPANY: WELWOOD OF CANADA LTD.
WELL: TRR-1
TRENIT RIVER

FIELD: BRITISH COLUMBIA
LOCATION: CUMBERLAND
Sect. 2, Twp. 1, Rge. 1

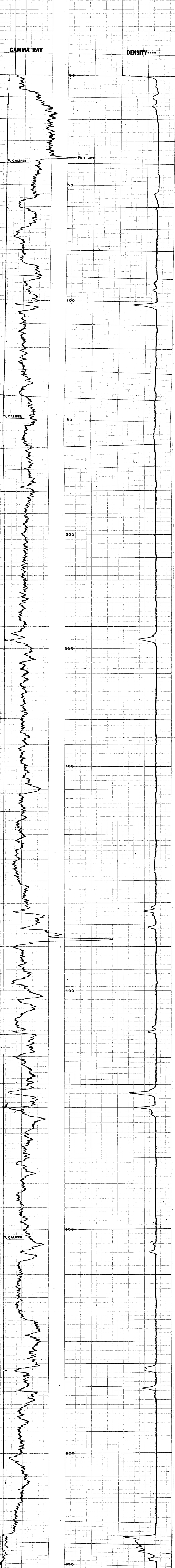
PROVINCE: WEL
WELL: WEL
COMPANY: WELWOOD OF CANADA LTD.

DATE: MAY 4, 1975
LOG MEASURED FROM: G.L.
LOG MEASURED TO: Q. R. ABOVE FROM DEPTH

DEPTH: 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650

CASING DOWN .14'
FLUID LEVEL AT LOGGING TIME 36 FT.

GAMMA RAY API UNITS	BULK DENSITY ρ_b - gm/cc	
	SEN. 0.86	T.C. 1
Scale 0.94 T.C. 2 Zero div. to left	1.50	1.75
CALIPER hole diameter in inches		
4 5 6 7 8 9 10 11 12		



GREAT SONS

FORMATION DENSITY LOG

COMPANY WELDWOOD of CANADA LTD.
TRR-2

WELL TRENT RIVER # 2

FIELD CUMBERLAND
PROVINCE BRITISH COLUMBIA

LOCATION
LSD Sec. Twp. Rge.
Perm. No. T.C. 1
Log Measured From

DATE MAY 6/75

DEPTH
Total Measured 535 ft
Total Recorded 532 ft
Depth Measured 534 ft
Bottom Depth 534 ft

Fluid Level 103.5 ft
5 ft casing in hole

API Units
Sens. 0.80 T.C. 2
Zero NO. div. to left

CALIPER
hole diameter in inches
4 5 6 7 8 9 10 11 12

WATER

4 5/4 IN.

13 IN.

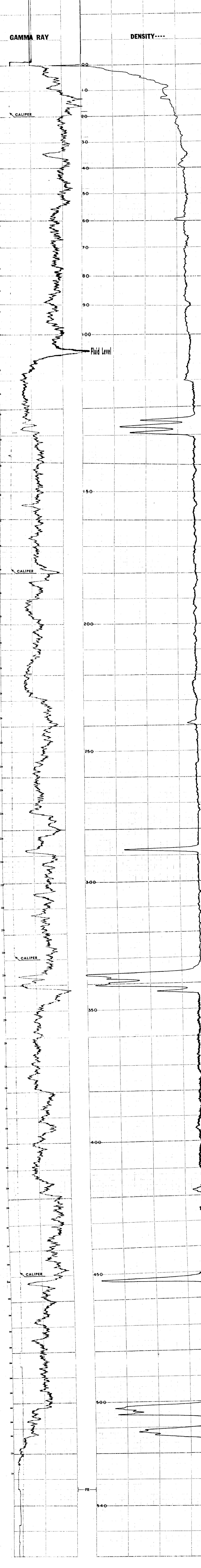
COVINGOBE

13

G. STOBART

G. GREEN

BULK DENSITY ρ_b - gm/cc
SEN. 304 T.C. 1
1.50 1.75 2.0 2.75



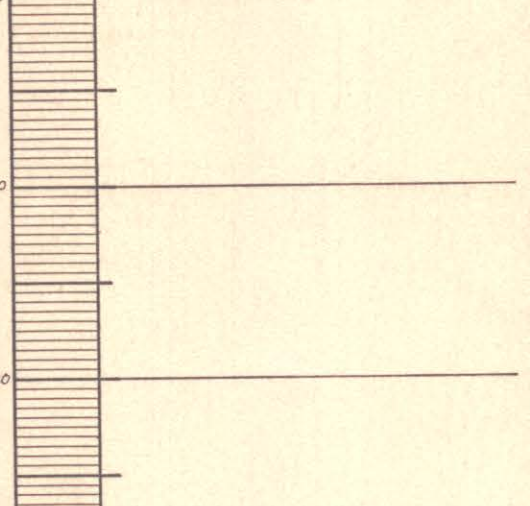
FR 540

Tsable River B.H #78

STATE	COMPANY TR-78	
COUNTY	FARM	WELL NO.
BLOCK	SURVEY NEWCASTLE DISTRICT	
SEC.		
T.	R.	647' 10" TOTAL DEPTH
	CONTRACTOR	
	COMMENCED	
	COMPLETED	
	REMARKS	
ALTIMITUDE 673'		
PRODUCTION		

CASING RECORD		
		10"
		8 1/4"
2		6 3/4"
		4 1/2"
SHOT	QUARTS	BETWEEN

FORM 394 - For sale by Ross-Martin Co., Tulsa



2' 0" Shale
 4' 0" Sandy shale
 7' 0" S.S. with sh. stks.
 4' 0" Sandstone

33' 0" S.S. with sh. stks.
 22' 3" Sandstone

3" S.S. with coal
 12" Coal
 4" Brown shale
 28" Dk. sandstone
 50" Sandstone
 2" Coal
 4" Dk. shale
 12' 6" Sandstone

8' 0" Broken sandstone
 6' 0" Hard sandstone

74' 0" Broken sandstone
 34' 0" Sandstone

9' 4" S.S. sh. stks. & Co. mks.
 1' 0" Coal
 1' 0" Shale
 1' 0" Coal
 1' 0" Shale
 1' 0" Coal
 1' 0" Shale
 1' 0" Coal
 1' 0" Shale
 1' 0" Coal
 1' 0" Shale
 1' 0" Coal
 1' 0" Shale

60" Shale with sandstone streaks
 19' 0" Sandstone with shale markings

2' 0" Broken sandstone
 4' 6" Sandstone
 0' 6" Shale & sandstone
 10' 0" Sandstone

3' 0" Sandstone with shale layers
 Sandstone

1' 8" S.S.
 5' 2" Sh. sh. w. conglts
 1' 0" Sandstone
 1' 0" Sandstone
 1' 0" Sandstone
 1' 0" Sandstone
 2' 0" Sh
 2' 6" Sh
 4' 0" Shale

5' 6" Sandstone, shale streaks
 6' 0" Sandstone

3' 0" Shale, sh. streaks.
 1' 0" Dark shale
 2' 2" Brn sh. coal markings
 1' 0" Coal
 1' 0" Sh. & coal
 1' 0" Brn shale, coal markings
 1' 0" Dark sh.
 2' 6" S.S. sh. streaks
 2' 0" Broken sandstone
 1' 0" Broken shale
 1' 0" Broken sandstone (speckled)
 3' 0" Shale, coal markings

5' 6" Sandy shale
 2' 6" Sandstone with shale streaks
 1' 0" Sandy shale
 1' 6" Sandstone with shale bands
 2' 0" Sandstone with shale streaks.
 2' 6" Broken shale
 1' 0" Sandy shale
 1' 0" Broken sandstone
 5' 0" Broken shale

2' 0" Broken sandy sh. with S.S. bands.
 5' 0" Broken sandstone (speckled)
 Broken sandy shale

LI
66
6
4
5

Tsable River B. H. # 75.

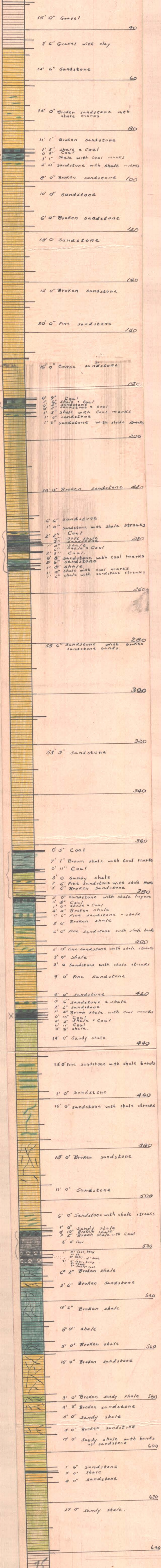
Cowie Creek.

STATE		COMPANY	TR-75
COUNTY	FARM	WELL NO.	
BLOCK	SURVEY		
SEC.	NELSON DISTRICT		
T.	R.	TOTAL DEPTH	
		639'	
CONTRACTOR			
COMMENCED		2	
COMPLETED		2	
REMARKS		(L2)	
ALTITUDE		499'	
PRODUCTION			

CASING RECORD

	10"	
	8 1/2"	
20"	6 1/2"	
15 1/2"	5 3/8"	
12 1/2"		
SHOT	QUARTS	BETWEEN

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



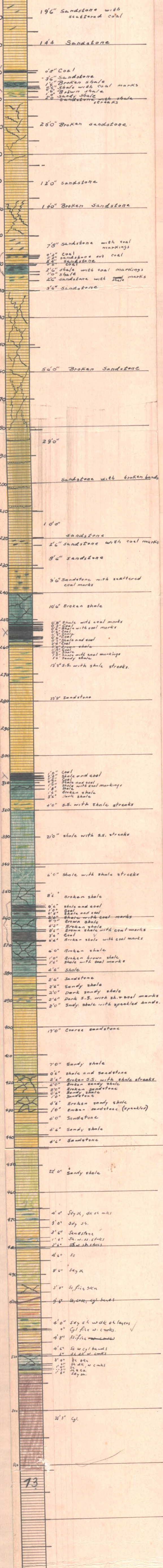
COWIE CREEK

STATE	B.H. # 73	
COUNTY	COMPANY	WELL NO.
BLOCK	FARM	TR-73
SEC.	SURVEY	
T.	R.	NELSON DISTRICT?
		567' TOTAL DEPTH
CONTRACTOR		
COMMENCED		
COMPLETED		
REMARKS		
(L3)		
ALTIMITUDE		
597'		
PRODUCTION		

CASING RECORD

	10"	
20	8 1/4"	
1	6 3/4"	
12	4"	
SHOT	QUANTITY	BETWEEN

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



73

COWIE CREEK

STATE _____ COUNTY _____ BLOCK _____ SEC. _____

COMPANY _____ FARM _____ WELL NO. _____

SURVEY **TR-71** NELSON DISTRICT

T. _____ R. _____ TOTAL DEPTH **794' 7"**

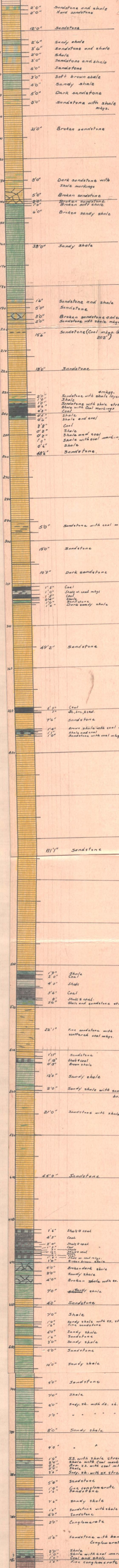
CONTRACTOR _____ COMMENCED _____ COMPLETED _____

ALTIMITUDE **377'** PRODUCTION _____

CASING RECORD

10"
8 1/4"
6 3/4"
5 1/2"
4 1/2"
4"
3 1/2"
3"
2 1/2"
2"
1 1/2"
1 1/4"
1 1/8"
1 1/16"

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



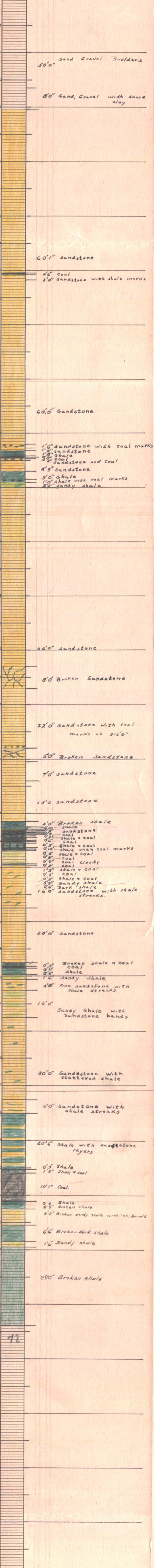
COWIE CREEK
 STATE BH. # 72

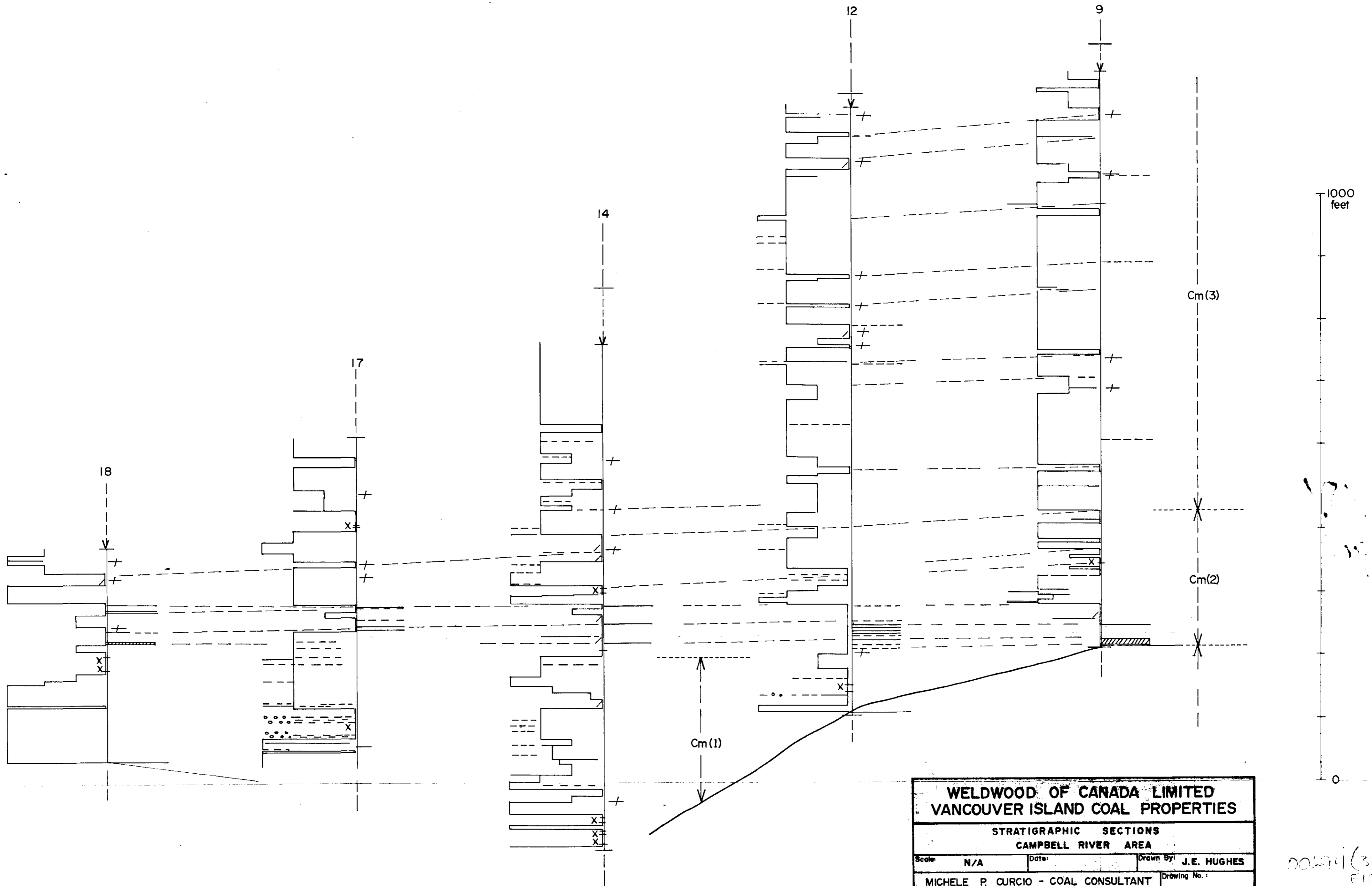
COMPANY	
COUNTY	FARM <u>TR-72</u> WELL NO.
BLOCK	SURVEY <u>NELSON DISTRICT</u>
SEC.	
T.	R.
TOTAL DEPTH <u>527' 0"</u>	
CONTRACTOR	
COMMENCED	
COMPLETED	
REMARKS	
ALTITUDE	<u>545'</u>
PRODUCTION	

CASING RECORD		
		10"
		8 1/4"
20'		6 3/4"
15'		
12'		
SHOT	QUARTS	BETWEEN

00694

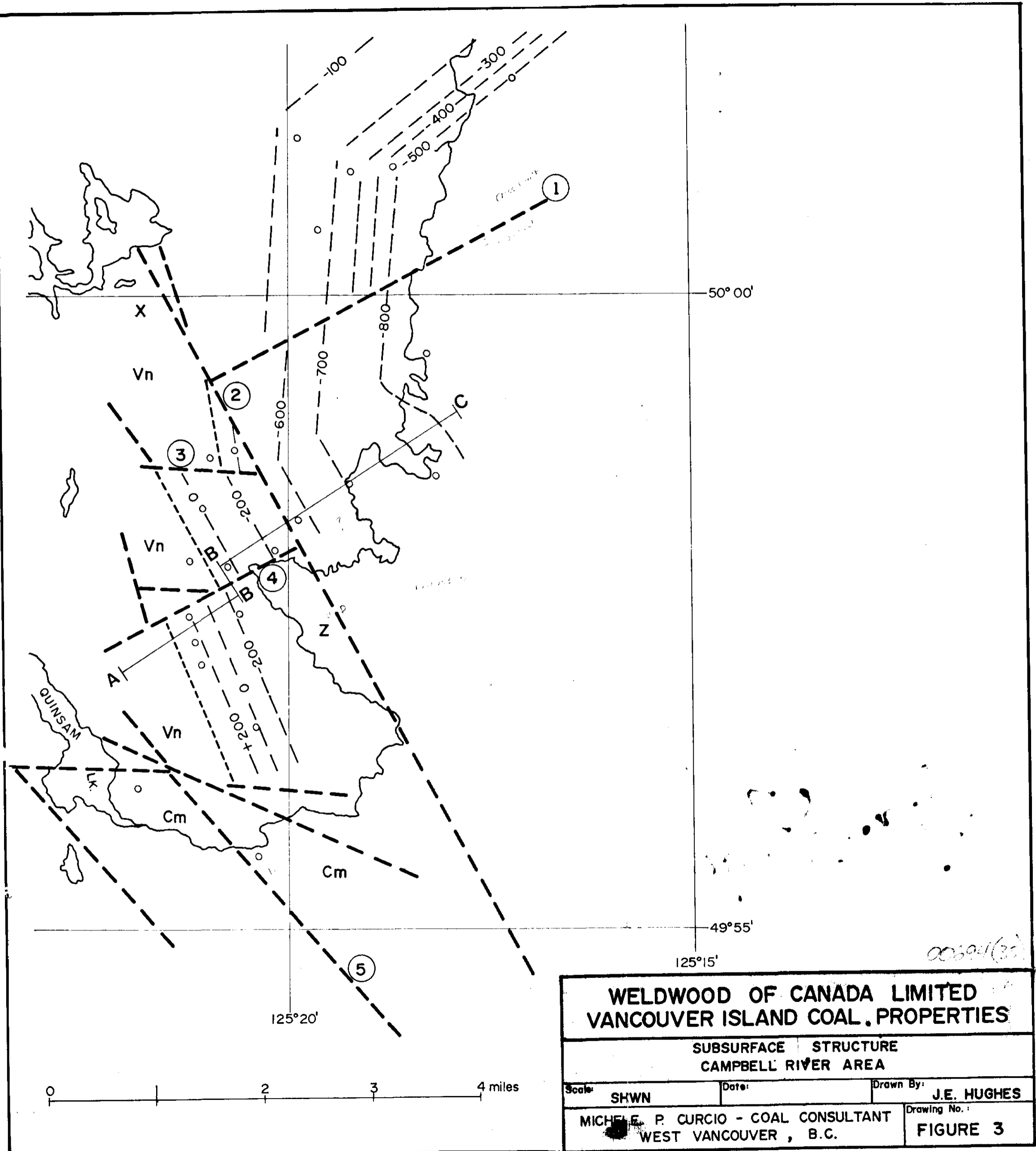
FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa





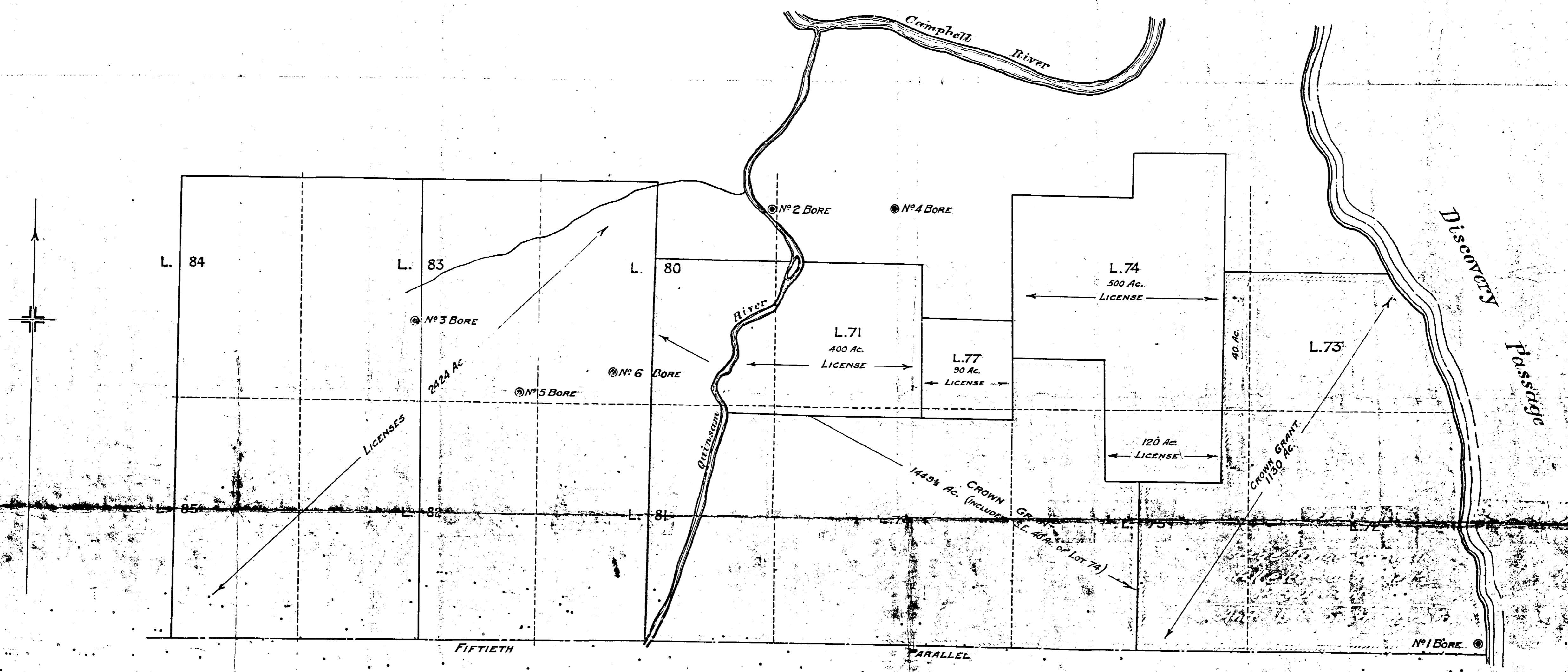
WELDWOOD OF CANADA LIMITED		
VANCOUVER ISLAND COAL PROPERTIES		
STRATIGRAPHIC SECTIONS CAMPBELL RIVER AREA		
Scale: N/A	Date:	Drawn By: J.E. HUGHES
MICHELE P. CURCIO - COAL CONSULTANT WEST VANCOUVER, B.C.		Drawing No.: FIGURE 2

00274(35)
FIG 02



WELDWOOD OF CANADA LIMITED			
VANCOUVER ISLAND COAL PROPERTIES			
SUBSURFACE STRUCTURE			
CAMPBELL RIVER AREA			
Scale:	SHWN	Date:	Drawn By:
			J.E. HUGHES
MICHELE P. CURCIO - COAL CONSULTANT			Drawing No.:
WEST VANCOUVER, B.C.			FIGURE 3

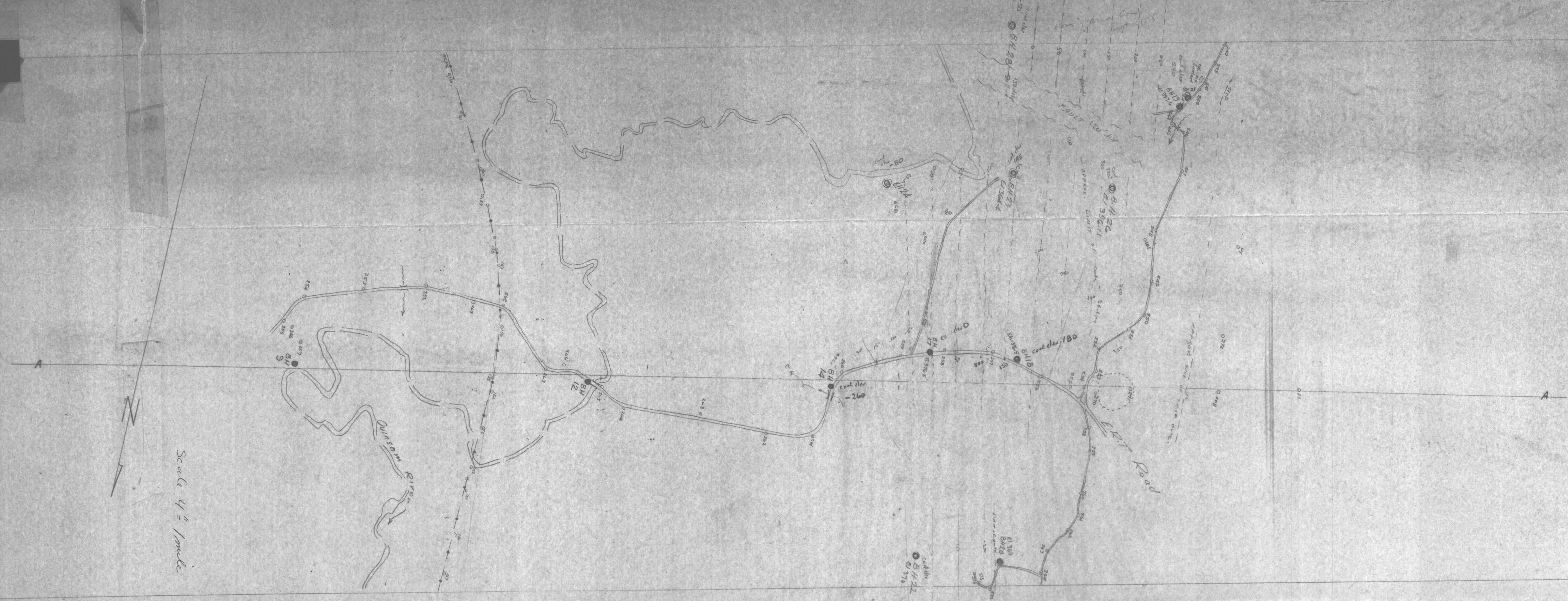
00694(35)



SCALE - 1" = 20 CHNS



fig. 186
QUINSMAN AREA / CAMPBELL RIVER
BOREHOLES Scale 4" = 1 mile.
CR-Holes.
M2 694



Scale 1/4" = 1 mile

SECTION A-A CR-HOGES
LOOKING SOUTH



Fig 187
694 (M3)
QUINSAM AREA
CAMPBELL RIVER

COWIE CREEK
B.H. # 85

STATE		COMPANY
COUNTY	FARM	WELL NO.
BLOCK	SURVEY	TR-85
SEC.		
T.	R.	TOTAL DEPTH
		598'
CONTRACTOR		
COMMENCED		?
COMPLETED		?
REMARKS		
ALTIMITUDE		
PRODUCTION		

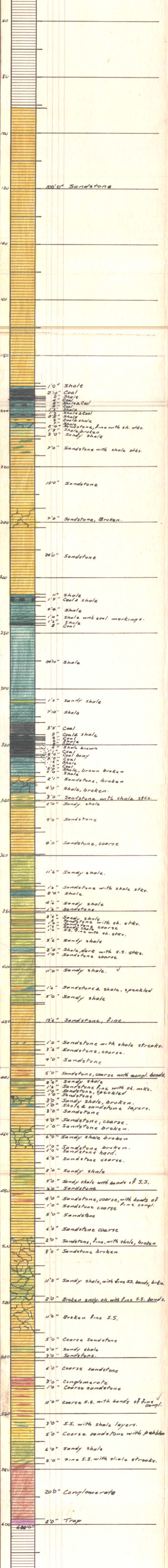
CASING RECORD

10"
8 1/2"
6"
5 1/2"
5 1/4"
1 1/2"

SHOT QUARTS BETWEEN

FORM 394 - For sale by Ross-Martin Co., Tulsa

LI



S. H. 81

TABLE
TR-81

STATE		COMPANY	WELL NO.
COUNTY		FARM	
BLOCK		SURVEY	
SEC.			
T.	R.	TOTAL DEPTH	
		256' 0"	
ALTITUDE		CONTRACTOR	
PRODUCTION		COMMENCED	
		COMPLETED	
		REMARKS	

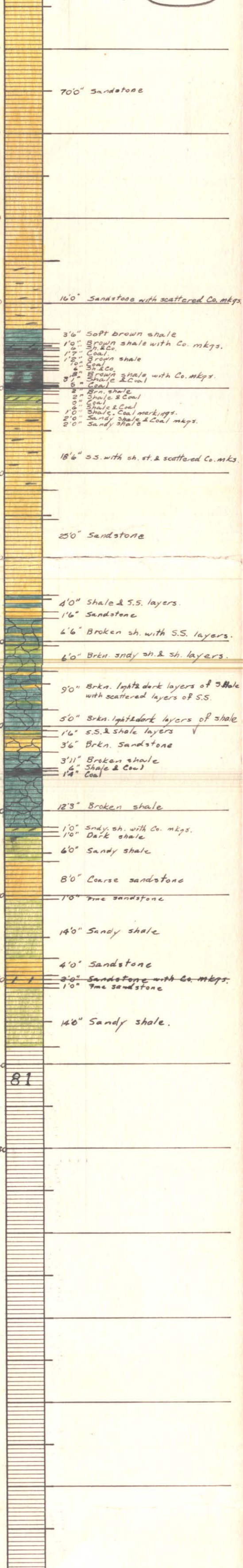
CASING RECORD

10"
8 1/4"
6 1/2"
5 1/2"
4 1/2"
3 1/2"
2 1/2"
1 1/2"
1 1/4"
1 1/8"
1 1/16"
3/16"
1/8"
1/16"
SHOT
QUARTS
BETWEEN

00694

FORM 394 - For sale by Ross-Martin Co., Tulsa

L2



B.H. 82

STATE COMPANY TR-82

STATE		COMPANY
COUNTY	FARM	WELL NO.
BLOCK	SURVEY	
SEC.		
T.	R.	646' TOTAL DEPTH
CONTRACTOR		
COMMENCED ?		
COMPLETED ?		
REMARKS		
ALTITUDE		
PRODUCTION		

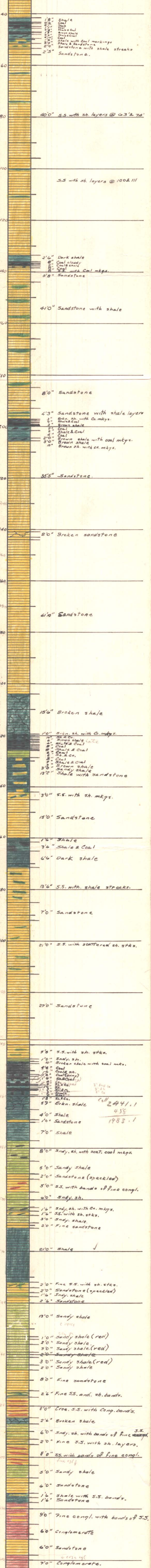
CASING RECORD

	10"
	8 1/4"
	6 1/2"
5 1/2"	5 1/8"
SHOT	QUARTS BETWEEN

00694

FORM 394 - For sale by Ross-Martin Co., Tulsa

L3



2441.1
458
1983.1

456
BHG2

BH83 TR-83

STATE		COMPANY	WELL NO.
COUNTY		FARM	
BLOCK		SURVEY	
SEC.			
T.	R.	508' TOTAL DEPTH	
		CONTRACTOR	
		COMMENCED	?
		COMPLETED	?
? ALTITUDE		REMARKS	
PRODUCTION			

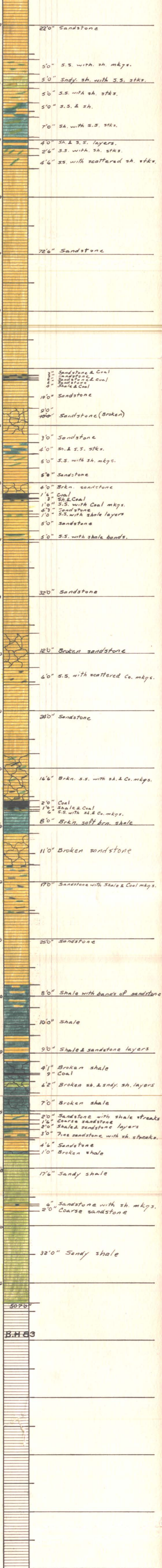
CASING RECORD

	10"
	8 1/4"
20	6 1/2"
1 1/2	5 1/8"
12	
SHOT	BETWEEN

00694

FORM 394 - For sale by Ross-Martin Co., Tulsa

L4



LOWIE CREEK

STATE	B.H. 84
COUNTY	COMPANY
BLOCK	FARM
SEC.	TR-84
T.	R.
566'8" TOTAL DEPTH	
CONTRACTOR	
COMMENCED	
COMPLETED	
REMARKS	
ALTITUDE	
PRODUCTION	

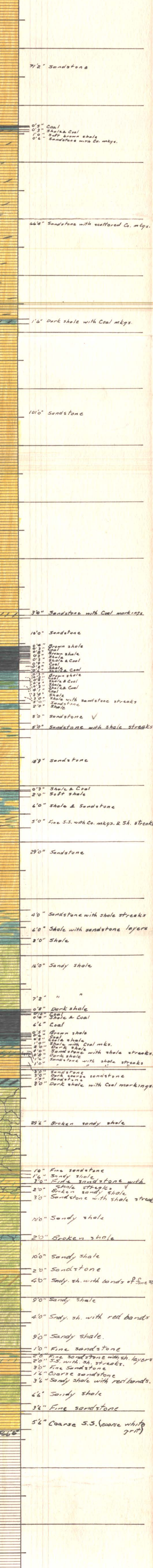
CASING RECORD

10"
8 1/2"
6 1/2"
5 1/2"
4 1/2"
3 1/2"
2 1/2"
1 1/2"

SHOT QUARTS BETWEEN

FORM 394 - For sale by Ross-Martin Co., Tulsa

(L5)



MONTHLY REPORT - TSABLE RIVER MINE

JANUARY, 1950.

<u>DISTRICT</u>	<u>FEET ADVANCED</u>	<u>TONS</u>	<u>SHIFTS</u>	<u>CARS OF ROCK</u>	<u>TONS PER SHIFT</u>	<u>REMARKS</u>
2 L. Counter Level	Nil					
2 Left Level	175'					Coal 1'2" Shale 3" Coal 5" Shale 6" Coal 11" Shale 3" Dirt 3" Coal 3'4"
3 L. Counter Level	Nil					Coal 1'4" Shale 3" Coal 1'8" Shale 2" Coal 4'7"
3 Left Level	85'					Coal 1'4" Shale 5" Coal 1'4" Shale 2" Coal 3'6"
4 L. Counter Raise	26'					
4 L. Return Raise	31'					
4 Left Level	Nil					Shale 9" Coal 6" Shale 1'1" Coal 2'0" Shale 1" Coal 1'10"
4 L. Sump	31'					
5 Left Level	20'					
Main Slope	48'					Coal 1'0" Shale 5" Coal 1'1" Shale 9" Coal 2'1" Shale 11" Coal 10" Shale 4" Coal 5" Boney Coal 4" Coal 3'10" Coal in Floor
5 R. Level	74'					Clay 3" Coal 10"

District	Feet Adv.	Tons	Shifts	Cars of Rock	Tons Per Shift	Remarks
						Coal 2'
5 Right Counter	60'					Bone Coal 2'
						Dirt Coal 1'
						Shale Coal 2'
5 Right Raise	45'					
Air Drift	24'					

Total tonnage (Railway weights)	13,321
Adjusted total shifts	3,198
Average per shift	4.1654
Days worked	21
Appro. shifts	309

BY: WWJ, SJL, ENG. DEPT.

REPORT FOR THE MONTH OF JANUARY - T'SABLE RIVER MINE.

<u>District</u>	<u>Feet Adv.</u>	<u>Tons</u>	<u>Shifts</u>	<u>Cars of Rock</u>	<u>Tons per Shift</u>	<u>Remarks.</u>
<u>No. 4 Cross-Cut:</u>	131'					Coal 1' - Shale
3 L. Counter	192'					Coal 1' - 1 Shale Coal 1
<u>No. 5 Cross-Cut</u>	46'					Coal 2' - Shale 1' - Coal Shale 1' - Coal
3 Left	167'					Bone 1 Shale Coal Shale 2' - Coal 3' -
<u>Cross-Cut off L. Counter</u>	nil					
<u>Dip off Cross-Cut.</u>	12'					
<u>6 Right</u>	43'					Shale Coal 1 Shale Coal
No. 3 Road off 6 Right	8'					Shale Coal 2' - Shale
No. 2 Road off 6 Right	75'					Coal 1 Boney Coal Shale Coal 2' -
<u>Cross-Cuts off No. 2 Road</u>	191'					Coal 1' - 1 Shale Coal 2' - Shale Coal 1' - Soft Shale
Diagonal (up), 5 Right	18'					Coal 2' - Shale Coal 1' - Coal 1' - 1 Shale

District	Feet Adv.	Tons	Shifts	Cars of Rock	Tons per Shift	Remarks.
<u>Counter Diagonal:</u>	nil					Shale Coal 1' - 1 Shale Coal 1' - 2 Boney Coal Coal 1'
No. Right	34'					Shale Coal Shale Coal 1' - 9
<u>No. Raise off</u> <u>5 Right</u>	81'					Shale Coal 3' - Shale Coal 3' - 2 Dirty Coal 10
No. Right Counter	63'					Shale Coal 3' - Shale 10 Coal 3' - 2
No. Raise off 5 Right	69'					

Total Tonnage (Railway Weights)
Adjusted Total Shifts
Average per Shift
Days Worked

11,135
3,224
3.4538
21 2/3

cc: WJ. RS. SL. Eng. Dept.

REPORT FOR THE MONTH OF FEBRUARY - T'SABLE RIVER MINE.

District	Feet Adv.	Tons	Shifts	Cars of Rock	Tons per Shift	Remarks.
3 L. Counter Level	nil					Coal 1' - 4" Shale 7" Coal 1' - 11" Shale 4" Coal 10"
No. 5 Xcut	60'					
No. 6 Xcut	39'					
L. Counter Slope	Nil					
Cross-Cut off L.) Counter)	86'					
6 Right	21'					
						<u>FAULTED</u>
Diagonal off) 6 Right)	84'					Coal 2' 6" Shale 6" Coal 2' 6" Shale 6" Coal 6" Mining 2" Coal 3' - 6"
2 Road off 6 Right	92'					
Cross-Cuts off) No. 2 Road)	113'					
1 L. off 5 Right) Counter Diagonal)	90'					
						<u>FAULTED</u>
L. Counter Diagonal	150'					Coal 1' - 6" Shale 6" Coal 1' - 8" Shale 8" Coal 1' - 6" Mining 2" Coal 4'
						Shale 4" Coal 1' - 11" Shale 6" Coal 1' - 2" Boney Coal 3" Coal 11" Shale 2" Coal 2" Shale 2"
5 Right Level	nil					

District	Feet Adv.	Tons	Shifts	Cars of Rock	Tons per Shift	Remarks
4 R. Moom	120'					Coal 1' - 8" Boney Coal 3" Coal 6" Boney Coal 6" Shale 8" Coal 3' - 6"
4 R. Count. Level	40'					Coal 1' - 2" Shale 6" Coal 5' - 6"

Total Tonnage (Railway Weights)	11,301 tons
Adjusted Total Shifts	3,215
Average per Shift	3.5151 tons
Days Worked	21
Appropriation shifts not included in above	24

cc: WWT. RS. SL. ENG. DEPT.

REPORT FOR THE MONTH OF MARCH - TISABLE RIVER MINE.

District	Feet Adv.	Tons	Shifts	Cars of Rock	Tons per Shift	Remarks
L. Counter Slope	nil					Coal 2 Shale 1 Coal 1'- 3 Shale 6 Coal 2'- 11'
1100 off Left Counter Slope	39'					Shale 3 Coal 2' Shale 1' Coal 3 Shale 3 Coal 1' 9'
3 Road off 6 Right	202'					Coal 2 Shale 6 Coal 1'- 10' Shale 3 Coal 1'- 2' Shale 4 Dirty Coal 2'- 10'
Cross-Cut off 3 Road	30'					Coal 2'- 0' Shale 1' Coal 10' Shale 2' Coal 7' Shale 2' Coal 1'- 7' Shale 2' Coal 2'- 0'
2 Road off 6 Right	42'					Coal 2'- 0'
Cross-Cut off 2 Road	123'					
1 L. off 5 R Counter Diagonal	104'					Coal 1'- Shale 2'
1. Counter Diagonal	148'					Coal 1'- Shale 2' Coal 1'- Shale 2' Coal 3'- Coal 2'- 0' Shale 5'
5 Right	21'					Coal 1'- Shale 2' Coal 1'- Shale 2' Coal 2'-

District	Feet Adv.	Tons	Shifts	Cars of Rock	Tons per Shift	Remarks
Cross-Cuts	164'					Coal 1'- 70
						Shale 6'
						Coal 2'- 60
						Boney Coal 1'- 60
Room	120'					
Total Tonnage (Railway Weights)					10,590	
Adjusted total shifts					3,094	
Average per shift					3.4228	
Days worked					21	
Exclusive of Appro. Shifts					40	

cc: WJ RB. SL. ENG. DEPT.

REPORT FOR THE MONTH OF APRIL - T'SABLE RIVER MINE.

Distance	Feet Adv.	Tons	Shifts	Cars of Rock	Tons per Shift	Remarks
L. Counter Slope	Nil					
Cross-cut off Road	144'					
Cross-cut off Road	157'					Clay 3" Coal 1' - 5" Shale 3"
L. Counter Diagonal	150'					Coal 3' - 5" Mining Dirt 2" Coal 2' - 10" Clay 6" Shale 10"
7 Right Level	76'					Coal 1' - 8" Shale 4" Coal 3' - 4" Shale 4" Coal 3' - 8"
5 Right Level	7'					Coal 2' - 0" Shale 5" Coal 1' - 5" Shale 2" Coal 3' - 4"
3 Right Level	45'					Clay 3" Coal 1' - 5" Shale 4" Coal 1' - 11" Shale 5" Coal 1' - 7" Shale 8" Coal 3' - 4"
5 Right Counter	140'					Coal 1' - 8" Shale 3" Coal 1' - 2" Shale 6" Coal 2' - 2" Shale 3" Coal 1' - 6"
Cross-cuts	172'					
Total Tonnage (Railway Weights)					10.903.tons	

June 10th, 1952.

REPORT FOR THE MONTH OF MAY - T'SABLE RIVER MINE.

DISTRICT	Feet Adv.,	Tons	Shifts	Cars of Rock	Tons per Shift	REMARKS
Left Counter Slope	2'					
Cross-cuts off 2 Road	144'					Coal 2' - Shale
1 Left off						Coal 3'
5. Counter Diagonal	55'					Shale Coal 4'
						Clay Coal 1'
Left Count. Diagonal	139'					Shale Coal 3'
						Shale Coal 2'
7 Right	69'					Shale 2' Coal 1'
						Clay Coal
6 Right	104'					Shale Coal 1'
						Shale Coal 2'
						Shale Coal 1'
						Shale Coal 2'
5 R. Count. Level	86'					Shale Boney Coal
						Coal 5'
Cross-Cuts	181'					

Total tonnage (Railway weights)	11,480 tons
Adjusted total shifts	3,091
Average per shifts	3.716

REPORT FOR THE MONTH OF JUNE / - T'SABLE RIVER MINE

DISTRICIT	FEET ADDE.	TONS	SHIFTS	CARS OF ROCK	TONS PER SHIFT	REMARKS
4 1/2 Counter Slope	92'					Shale Coal 2'- Boney Coal Coal 1'- Shale Coal 1'- Bone Coal 1'- Bone Coal 1'-
1 L off L Counter Diag.	106'					Coal 1'- Shale Coal 3'- Shale
2 L off L Counter Diag.	26'					Coal 3'-
Left Counter Diagonal	182'					Shale Coal 1'- Shale Coal 3'- Shale Coal 2'-
3 Right	42'					Coal 1'- Shale Coal 3'- Shale Coal 3'-
7 Right	56'					Shale Coal 1'- Shale 1'- Coal 1'- Shale Coal 1'- Shale Coal 3'-
6 Right	50'					Shale Coal 1'- Shale Coal 1'- Shale Coal 1'- Shale

DISTRICT	FEET ADV.	TONS	SHIFTS	CARS OF ROCK	TONS PER SHIFT	REMARKS
5 Right Counter Level	Nil					Shale Boney Coal Coal 5' - :
Cross-outs	90'					

Total Tonnage (Railway Weights)	12,631 tons
Adjusted total shifts	3,070
Average per shift	4.1143 tons
Days Worked	20

cc; WWJ. RS. SL. ENG. DEPT.

August 7th, 1952.

REPORT FOR THE MONTH OF JULY - T'SABLE RIVER MINE.

District	Feet Adv.	Tons	Shifts	Cars of Rock	Tons per Shift	Remarks
Place to Left Left Counter Slope	24'					Shale
						Coal 1'
						Shale
						Coal
						Shale
						Coal
						Shale 1'
						Coal
						Shale
						Coal
						Shale
						Coal 1'
						Shale 1'
L. Counter Slope	112'					Coal
						Shale
						Coal 2'
						Bone
						Shale
						Coal
						Shale
						Coal
						Shale
						Coal
Shale 1'						
L. of L. Counter Diagonal	78'					Coal 1'
						Shale
						Coal 3'
						Mining Coal 2'
Left Counter Diagonal	129'					Shale
						Coal ;1'
						Shale
						Coal 3'
						Shale
Coal 2'						
Right	50'					Coal 1'
						Shale
						Coal 7'
Right	22'					Shale 1'
						Coal 1'
						Clay
						Coal 1'

District	Feet Adv.	Tons	Shifts	Cars of Rock	Tons per Shift	Remarks
Face to Right off 6 Right 73'						Coal 1'
						Shale
						Coal 2'
						Shale
						Coal
						Bone
						Coal
						Shale
						Coal
						Shale
					Coal 2'	

in Diagonal (UP) Nil

Right Counter Level Nil

Total tonnage (Railway weights)	6,940 tons
Adjusted total shifts	1,837
Average shifts	3.7779 tons
Days worked	11
Apprx. shifts	53

September 16th, 1952.

REPORT FOR THE MONTH OF AUGUST - T'SABLE RIVER MINE.

District	Feet Adv.	Tons	Shifts	Cars of Rock	Tons Per Shift.	Remarks
4 1/2 Left Counter Slope	46'					Shale Coal 1' Shale Coal 2' Shale 1' Coal with shale bands 2' Coal 2' Shale Coal Shale Coal Shale Coal 1' Coal with shale bands 1'
Place to Right off 4 1/2 Left	137'					Coal 1' Shale Coal 2' Mining Coal Mining Coal 3'
1 L. off L Counter Diagonal	137'					Coal 1' Shale Coal 3' Mining Coal 3'
Left Counter Diag.	76'					Coal 1' Shale Coal 3' Mining Coal 3'
9 Right	53'					Coal 1' Shale Coal 3' Mining Coal 3'
8 Right	91'					Coal 1' Shale Coal 3' Mining Coal 3'
Diagonal up off 8 Right	56'					Shale 1'

District	Feet Adv.	Tons	Shifts	Cars of Rock	Tons Per Shift	Remarks
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Coal 1'
Bone
Coal
Bone
Coal

Diagonal off 6 Right 70'

Airdrift 35'

Total tonnage (Railway weights)
Adjusted total shifts
Average per shift
Days worked
Appre. shifts

8,357
2,374
3.5202 tons
14
114

October 17th, 1952.

REPORT FOR THE MONTH OF SEPTEMBER - T'SABLE RIVER MINE.

District	Feet Adv.	Tons	Shifts	Cars of Rock	Tons per Shift	Remarks
1/2 L Counter Slope	44'					Coal 1' Shale Coal 1' Shale & Bone 4' Boney Coal 2'
Place to Right off 4 1/2 L Counter	41'					Coal Shale Coal 2' Bone Coal 1' Shale Coal 2' Shale Coal 1'
<u>LEFT COUNTER DIAGONAL</u>						
Cross-cut of 1 Left	40'					Shale Coal 1'
1 Left	25'					Shale Coal 3' Shale Coal 1'
Left Counter Diagonal Nil						Coal 1' Shale Coal 3' Mining Coal 3'
9 Right	130'					Coal 1' Shale
9 Right Raise	36'					Coal 3' Mining Coal 3'
8 Right	89'					Coal 1' Shale Coal 3' Mining Coal 3'
8 Right Raise	154'					Shale 1' Coal 1' Shale Coal 3' Mining

Disttct	Feet Adv.	Tons	Shifts	Cars of Rock	Tons per Shift	Remarks
						Shale
Cross-cut	24'					Coal 1'
Right Counter (Back)	46'					Shale
						Coal 2'
						Shale
						Coal
						Bone
						Coal
						Shale
Prospect off 6 Right	23'					Coal 3'
Diagonal Slope (Wp)	54'					
5 Right Counter Level	65'					Coal 4'
						Shale
						Coal 1'
						Shale
No. Raise	14'					Coal 1'
Airdrift	30'					

Total Tonnage (Railway weights)
Adjusted total shifts
Average per shift
Days worked
Appro. Shifts

8,505
2,272
3.7434
14
203

cc: WWJ. RS. SJL. ENG. DEPART.

November 13th, 1952.

REPORT FOR THE MONTH OF OCTOBER - T'SABLE RIVER MINE.

District	Feet Adv.	Tons	Shifts	Cars of Rock	Tons Per Shift	Remarks
PLACE TO RIGHT OFF						
4 ¹ LEFT COUNTER	Nil					
<u>LEFT COUNTER REGIONAL</u>						
1 Left	Nil					Coal 1'
2 Left	Nil					Shale
L. Counter Diagonal	Nil					Coal 3'
						Mining
						Coal 3'
9 Right	125'					Coal 1'
						Shale
						Coal 4'
						Shale
						Coal 2'
8 Right	64'					Coal 1'
						Shale
						Coal 3'
						Dirt
						Coal 3'
Right Raise	80'					Coal 1'
						Shale
						Coal 3'
						Shale
						Coal 3'
R. Counter, 8 Right	21'					Coal 1'
						Shale
8 Right Raise	56'					Coal 3'
						Dirt
						Coal 4'
7 Right	Nil					Coal 1'
7 Right Raise	74'					Shale
						Coal 1'
						Dirt

(2)

District	Feet Adv.	Tons	Shifts	Cars of Rock	Tons Per Shift	Remarks
Right Counter	103'					Coal 4' Shale Coal Boney Coal Coal
No. 7 Raise	36'					
No. 6 Raise	12'					
Air Drift	28'					

Total tonnage (Railway weights)	8,346
Adjusted total shifts	2,100
Average per shift	3.8284
Days worked	13
Appro. shifts	207

cc: WWJ. RS. SJL. ENG. DEPT.

December 10th, 1952.

MONTHLY REPORT FOR NOVEMBER - T'SABLE RIVER MINE.

District	Feet Adv.	Tons	Shifts	Cars of Rock	Tons per Shift	Remarks
<u>Place to Right off</u>						
<u>4 L. Counter</u>	10'					
<u>Left Counter Diagonal</u>						Coal 1'
1 Left	Nil					Shale
2 Left	Nil					Coal 3'
Left Counter Diagonal	Nil					Mining
						Coal 3'
9 Right	183'					Coal
						Shale
						Coal
						Shale
						Coal 3'
						Mining
						Coal 3'
9 Right Raise	112'					Shale
						Coal 1'
						Shale
						Coal 3'
						Shale
						Coal 1'
						Mining
						Coal 2'
8 Right	36'					Clay
						Coal 1'
						Shale
						Coal 3'
						Mining
						Coal 3'
Right Counter, 8 Right	68'					
7 Right	Nil					
7 Right Raise	81'					
6 Right Raise	73'					Coal 1'
						Shale
						Coal 2'

D District	Feet Adv.	Tons	Shifts	Cars of Reck	Tons per Shift	Remarks
						Coal 3'
5 Right Counter	79'					Shale
						Coal 2'
Air drift	26'					Mining
						Coal
						Mining
						Coal 2'

Total tonnage (Railway weights)	8,513 tons
Adjusted total shifts	2,129
Average per shift	3.9986 tons
Days worked	12
Appro. shifts	172

cc: WJ. RS. ENG. DEPT.

D District	Feet Adv.	Tons	Shifts	Cars of Reek	Tons per Shift	Remarks
						Coal 3'
						Shale
5 Right Counter	79'					Coal 2'
						Mining
Air drift	26'					Coal
						Mining
						Coal 2'

Total tonnage (Railway weights)	8,513 tons
Adjusted total shifts	2,129
Average per shift	3.9986 tons
Days worked	12
Appro. shifts	172

cc: WJ. RS. ENG. DEPT.

DISTRICTFEET
ADVANCEDTONS SHIFTS CARS TONS
OF PER
ROCK SHIFTRemarks

Cross-cuts, 4 R. Level	50'	
4 R. Counter Level	129'	Clay 3" Coal 1'6" Boney Coal 4" Coal 6" Shale 1" Coal 6" Shale 5" Coal 2'7" Bone 2" Coal & Shale 10"
3 R. Level	34'	Clay 7" Coal 4'4" Shale 1" Coal 1'1" Shale 9" Coal 7"
Cross-cuts, 3 R. Level	111'	
3 R. Counter Level	19'	Clay 3" Coal 3'6" Shale 1" Coal with shale bands
2 R. Level	Nil	
Cross-cuts, 2 R. Level	255'	
2 R. Counter Level	Nil	
1 R. Level	Nil	
1 R. Counter Level	Nil	
W. Room off 1 R. Level	85'	
Prospectlevel	Nil	

Total Tonnage (Railway Weights)	-	7096
Total Shifts	-	2063
Average per Shift	-	3.4397
Days Worked	-	15

MONTHLY REPORT - FEBRUARY, 1950

TSABIE RIVER MINE

<u>DISTRICT</u>	<u>FEET ADVANCED</u>	<u>TONS SHIFT</u>	<u>CARS OF ROCK</u>	<u>TONS PER SHIFT</u>	<u>REMARKS</u>
2 L. Counter Level	N11				
Cross-cut 2 L. Level	86'				Coal 1'0" Shale 5" Coal 1'2" Shale 3" Coal 4" Shale 3" Coal 3'4"
2 L. Level	105'				
3 L. Counter Level	N11				
Cross-cuts, 3 L. Level	98'				
3 L. Level	212'				Money Coal 2" Coal 11" Shale 5" Coal 6" Shale 1'4" Coal 8" Shale 2" Coal 4" Money Coal 3" Coal 3'0"
4 L. Return Raise	31'				
4 L. Level	N11				
4 L. Sump	21'				
5 Level	53'				In fault.
Main Slope	47'				On Fault
5 R. Level	108'				Shale 3" Coal 9" Shale 1" Coal 1'5" Shale 8" Coal 2'0" Money Coal 3" Shale 6" Coal 1'2" Shale 5" Coal 5" Shale 1'10" Coal in floor.
5 n. Counter Raise	116'				
4 n. Level	88'				Clay 3"

<u>DISTRICT</u>	<u>FEET</u> <u>ADVANCED</u>	<u>TONS</u>	<u>SHIFTS</u>	<u>CARS</u>	<u>TONS</u> <u>OF</u> <u>PER</u> <u>ROOM</u> <u>SHIFT</u>	<u>REMARKS</u>
4 R. Counter Level	161'					Clay 3" Coal 1'9" Shale 3" Coal 7" Money Coal 2" Coal 6" Shale 4" Coal 1'2" Money Coal 2" Coal 1'2" Money Coal 11"
3 R. Level	N11					Clay 7" Coal 4'4" Shale 1" Coal 1'1" Shale 9" Coal 7"
Cross-cuts 3 R. Level	53'					
3 R. Counter Level	103'					Clay 3" Coal 1'10" Money Coal 2" Coal 1'3" Money Coal 3" Coal & Shale 1'1"
2 R. Level	N11					
2 R. Counter Level	N11					
No. 9 Room 2 R. Level	250'					
Cross-cuts 2 R. Level	50'					
1 R. Level	N11					
1 R. Counter Level	N11					
Prospect Level	N11					

Railway Tonnage - 10146
 Total Shifts - 2578
 Average per Shift - 3.9356
 Days worked - 19½

DISTRICT

FEET
ADVANCED

TONS SHIFT GAZE TIME
OF THE
DAY SHIFT

REMARKS

#5R. Counter Baise

184'

4 R. Level

209'

Clay 4"
Coal 1'7"
Boney Coal 2"
Coal 1'5"
Boney Coal 3"
Coal 1'0"
Boney Coal 3"
Coal 1'5"

Cross-cuts, 4R. Level

243'

4 R. Counter Level

N11

3 R. Level

N11

Clay 6"
Coal 1'6"
Boney Coal 2"
Coal 7"
Boney Coal 2"
Coal 1'4"
Boney Coal 3"
Coal 7"
Shale 2"
Coal 7"
Coal & Shale 2

cross-cuts, 3 R. Level

41'

3 R. CounterLevel

87'

Clay 6"
Coal 2'0"
Shale 2"
Coal 11"
Boney Coal 2"
Coal 9"
Shale 2"
Coal 4"

#9 Room off 2 R.Count.Level

34'

Railway Tonnage-10241

Total Shifts- 2678

Average per shift - 3.8241

Days worked - 20

MONTHLY REPORT - TRABLE RIVER MINE

MARCH, 1950

<u>DISTRICT</u>	<u>FEET ADVANCED</u>	<u>TONS</u>	<u>SHIFTS</u>	<u>CARS</u>	<u>TONS OF ROCK LIFT</u>	<u>REMARKS</u>
2 L. CounterLevel	N11					
Cross-cuts, 2L. Level	241'					Coal 1'0" Shale 5" Coal 1'2" Shale 3" Coal 4" Shale 3" Coal 3'4"
2 L. Level	N11					
3 L. Level	91'					Shale 2" Coal 1'2" Shale 4" Coal 5" Shale 3" Coal 1'0" Shale 3" Coal 5" Bone 3" Coal 3'2"
Cross-cuts, 3L. Level	170'					
4 L. Return Raise	12'					
4 L. Level	N11					Shale 9" Coal 6" Shale 1'1" Coal 2'0" Shale 1" Coal 1'10"
4 L. Sump	N11					
4½ L. Level	33'					
5 L. Level	179'					Shale 6" Coal 2'4" Bone 9" Coal 5" Shale 1'6" Coal 6" Shale 1'7" Coal 5'8"
Main Slope	N11					In Fault
5 R. Level	18'					Coal 8" Shale 2" Coal 1'1" Shale 9" Coal 1'11"

MONTHLY REPORT - TRABLE RIVER MINE

APRIL, 1950

<u>DISTRICT</u>	<u>FEET</u>	<u>ADVANCED</u>	<u>TONS</u>	<u>SUITS</u>	<u>WAS</u>	<u>TONS</u>	<u>REMARKS</u>
					<u>OF</u>	<u>PER</u>	
					<u>WAS</u>	<u>PER</u>	
1 L. Counter Level	N11						
Cross-cuts	77'						
1 L. Level	N11						
2 L. Counter Level	N11						
2 L. Level	N11						
3 L. Counter Level	6'						Coal 1'5" Shale 3" Coal 1'7" Shale 3" Coal 8" Shale 1" Coal 2'0" Shale 1" Coal 1'0" Shale 1" Coal 9"
Cross-cuts	87'						
3 L. Level	151'						Coal 10" Shale 6" Coal 1'5" Shale 3" Coal 7" Shale 3" Coal 1'2"
4 L. Return Raise	N11						
4 L. Level	N11						Shale 9" Coal 6" Shale 1'1" Coal 2'0" Shale 1" Coal 1'10"
4 L. Sump	N11						
4½ L. Level	58'						
5 L. Level	32'						Coal 2'0" Shale 9" Coal 5" Shale 1'7" Coal 7" Shale 1'6" Coal 3" Shale 3" Coal 1'3" Shale 3"

<u>DISTRICT</u>	<u>FEET</u> <u>ADVANCED</u>	<u>TONS</u> <u>SHIFTS</u>	<u>GAUGE</u> <u>IN</u> <u>FOOT</u>	<u>TONS</u> <u>IN</u> <u>FOOT</u>	<u>REMARKS</u>
5 R. Level	9'				Coal 8" Shale 2" Coal 1'0" Shale 9" Coal 2'3" Shale 6" Coal 1'4" Shale 8" Coal 6" Shale 1'9" Coal 1'3"
5 R. Counter Raise	148'				
4 R. Level	57'				Clay 6" Coal 1'9" Shale 1" Coal 2'8" Shale 3" Coal 10" Shale 1" Coal 3" Shale 1" Coal 7"
Cross-cuts	71'				
4 R. Counter Level	111				
3 R. Level	111				Clay 7" Coal 4'4" Shale 1" Coal 1'1" Shale 9" Coal 7"
Cross-cuts	38'				
3 R. Counter Level	83'				Clay 6" Coal 2'1" Shale 4" Coal 2'0" Shale 4" Coal 6"
2 Room, 2R. Level	213'				

Total Tonnage
(Railway Weights) - 6684

Total Shifts - 1984

Average per shift - 3.3690

MONTHLY REPORT - TRABLE RIVER MINE

JANUARY, 1950.

<u>DISTRICT</u>	<u>FEET ADVANCED</u>	<u>TONS</u>	<u>SHIFTS</u>	<u>CARS OF ROCK</u>	<u>TONS PER SHIFT</u>	<u>REMARKS</u>
2 L. Counter Level	Nil					
2 Left Level	175'					Coal 1'2" Shale 3" Coal 5" Shale 6" Coal 11" Shale 3" Dirt 3" Coal 3'4"
3 L. Counter Level	Nil					Coal 1'4" Shale 3" Coal 1'8" Shale 2" Coal 4'7"
3 Left Level	85'					Coal 1'4" Shale 5" Coal 1'4" Shale 2" Coal 3'6"
4 L. Counter Raise	26'					
4 L. Return Raise	31'					
4 Left Level	Nil					Shale 9" Coal 6" Shale 1'1" Coal 2'0" Shale 1" Coal 1'10"
4 L. Sump	31'					
5 Left Level	20'					
Main Slope	48'					Coal 1'0" Shale 5" Coal 1'1" Shale 9" Coal 2'1" Shale 11" Coal 10" Shale 4" Coal 5" Heavy Coal 4" Coal 3'10" Coal in Floor
5 R. Level	74'					Clay 3" Coal 10" Shale 1"

District	Feet Adv.	Tons	Shifts	Cars of Rock	Tons Per Shift	Remarks
						Coal 2'
5 Right Counter	60'					Bone Coal 2' Dirt Coal 1' Shale Coal 2'
5 Right Raise	45'					
Air Drift	24'					

Total tonnage (Railway weights)	13,321
Adjusted total shifts	3,198
Average per shift	4.1654
Days worked	21
Appro. shifts	309

cc: WWJ, SJL, ENG. DEPT.

MONTHLY REPORT - TRANGLE RIVER AREA

MAY, 1950

<u>DISTRICT</u>	<u>FEET</u>	<u>ADVANCED</u>	<u>TONE</u>	<u>SHIFTS</u>	<u>TIME</u>		<u>REMARKS</u>
					<u>UP</u>	<u>DOWN</u>	
3 L. Counter Level	160'						
Cross-cuts	156'						
3 L. Level	89'						Coal 6" Shale 3" Coal 5" Shale 5" Coal 3'2"
4 L. Return Raise	N11						
4 L. Level	N11						Shale 9" Coal 6" Shale 1'1" Coal 2'0" Shale 1" Coal 1'10"
4 1/2 L. Level	40'						
5 L. Level	N11						Coal 2'0" Bone 9" Coal 5" Shale 1'7" Coal 7" Shale 1'6" Coal 3" Shale 3" Coal 1'3" Shale 3" Coal 1'6"
Stein Slope	N11						
Diagonal	181'						Coal 8" Shale 4" Coal 1'0" Shale 8" Coal 1'10" Shale 6" Coal 10" Shale 3" Coal 4" Mining 3" Coal 2'10"
5 R. Level	21'						Coal 1'9" Shale 8" Coal 2'2" Shale 7" Coal 6" Shale 1'3" Coal 9"

MONTHLY REPORT - TAMM RIVER MINE

JUNE, 1950

<u>DISTRICT</u>	<u>FEET</u> <u>ADVANCED</u>	<u>TONS</u>	<u>SHIFTS</u>	<u>CARS</u> <u>OF</u> <u>ROCK</u>	<u>TONS</u> <u>PER</u> <u>SHIFT</u>	<u>REMARKS</u>
3 L. Counter Level	92'					
3 L. Level	N11					Coal 6" Shale 3" Coal 5" Shale 5" Coal 3'2"
4 L. Return Raise	N11					
4 L. Level	N11					Shale 9" Coal 6" Shale 1'1" Coal 2'0" Shale 1" Coal 1'10"
4 1/2 L. Level	30'					
5 L. Level	N11					Coal 2'0" Bone 9" Coal 5" Shale 1'7" Coal 7" Shale 1'6" Coal 3" Shale 3" Coal 1'3" Shale 3" Coal 1'6"
Main Slope	N11					
gonal	18'					Coal 1'0" Shale 6" Coal 1'10" Shale 4" Coal 9" Shale 3" Coal 5" Shale 4" Coal 5'11"
5 R. Level	N11					Coal 1'9" Shale 8" Coal 2'2" Shale 7" Coal 6" Shale 1'3" Coal 9"
5 R. Counter Level	65'					Coal 1'8" Shale 11" Coal 2'1"

DISTRICT

FEET
ADVANCED TONE SHEETS

GABE TONS
OF
IRON
ORE

REMARKS

3 R. Level

174'

Shale 5"
Coal 2'2"
Shale 1"
Coal 2'3"
Shale 1"
Coal 9"
Dirty Coal 1'6"
Clay 8"

cross-cuts

76'

3 n. Counter Level

Nil

Clay 6"
Coal 2'1"
Shale 4"
Coal 2'0"
Shale 4"
Coal 6"

Total Tonnage (Railway Weights)	-	6801
Total Shifts	-	1974
Average per Shift	-	3.4452
Days Worked	-	17 1/2

2nd Floor	11'	Coal 1'10" Shale 10" Coal 1'10" Shale 8" Coal (1'10") 6'0"
3rd Floor	NH	Coal 1'9" Shale 8" Coal 2'2" Shale 7" Coal 6" Shale 1'3" Coal 9"
4th Floor Counter Level	121'	Coal 1'10" Shale 8" Coal 2'0" Shale 10" Coal 6" Shale & Coal in Floor
5th Floor	NH	Clay 6" Coal 4'6" Shale 3" Coal 2'8"
6th Floor Counter Level	16'	Clay 2" Coal 5'9"
7th Floor	111'	Coal 1'8" Shale 7" Coal 4'0" Boney Coal 3'0"
8th Floor Counter Level	127'	Coal 4'0" Boney Coal 2'6"

Total Tonnage (Railway Weights)	-	3759
Total Shifts	-	1032
Average per shift	-	3.6424
Days worked	-	9

AUGUST, 1950

<u>DISTRICT</u>	<u>FEET ADVANCED</u>	<u>TONS</u>	<u>SHIFTS</u>	<u>CANS OF ROCK</u>	<u>TONS PER SHIFT</u>	<u>REMARKS</u>
4 L. Return Raise	N11					
4 L. Level	N11					
4 1/2 L. Counter Raise (up)	55'					Coal 3'0" Shale 3" Coal 4" Shale 6" Coal 4'0"
4 1/2 L. Counter Raise (Down)	150'					Shale 2'0" Coal 2'2" Shale 8" Coal 2'2"
5 T. Level	N11					
Main Slope	N11					
Diagonal	43'					Coal 9" Shale 3" Coal 1'0" Shale 10" Coal 1'8" Shale 1" Coal 1'0" Shale 2" Coal 4'0"
Cross-cut	22'					
Diagonal Counter	106'					
5 B. Level	101'					Coal 1'11" Shale 9" Coal 2'0" Shale 10" Coal 10" Coal & Shale 1'0"
5 A. Counter Level	N11					Coal 1'10" Shale 8" Coal 2'0" Shale 10" Coal 6"
4 A. Level	N11					Clay 6" Coal 4'6" Shale 3" Coal 2'8"
4 R. Counter Level	N11					Clay 2" Coal 5'9"
4 3 r. Level	38'					Coal 1'8" Shale 8"

SEPTEMBER, 1930

<u>DISTRICT</u>	<u>FEET ADVANCED</u>	<u>TONS SHIFTS</u>	<u>CARS OF ROCK</u>	<u>TONS PER SHIFT</u>	<u>REMARKS</u>
4 T. Return Raise	N11				
4 T. Level	N11				
4½ L. Counter Raise	115'				Shale 3'10" Coal 6" Shale 10" Coal 2'8" Coal in floor
Counter Slope off 4½ L.	144'				Shale 8" Coal 2'0" Shale 9" Coal 1'0" Shale 2" Coal 5" Shale 10" Coal 1'8" Shale 2" Coal 1'4"
5 L. Level	N11				
Main Slope	N11				
Counter Slope off Diagonal	135'				Coal 2'0" Shale 9" Coal 2'0" Shale 7" Coal 10" Shale 4" Coal 2'6"
Diagonal	19'				
5 R. Level	N11				Coal 1'11" Shale 9" Coal 2'0" Shale 10" Coal 10" Coal & Shale 1'
5 R. Counter Level	N11				Coal 1'10" Shale 8" Coal 2'0" Shale 10" Coal 6"
4 R. Level	N11				Clay 6" Coal 4'6" Shale 3" Coal 2'8"

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MONTHLY REPORT - THARLE RIVER MINE

OCTOBER, 1950

<u>DISTRICT</u>	<u>FEET ADVANCED</u>	<u>TONS SHIFTED</u>	<u>CANS OF ROCK</u>	<u>TONS PER SHIFT</u>	<u>REMARKS</u>
4 I. Return Raise	N11				
4 T. Level	N11				
4n T. Counter Raise	99'				Shale 2'2" Coal 6" Bone 4" Coal 3'9"
4n T. Counter Slope	110'				Coal 1'11" Shale 9" Coal 10" Shale 4" Coal 4" Shale 4" Coal 2'0" Shale 6" Coal 1'5"
Main Slope	N11				
Cut-off R. Counter Slope	152'				Coal 2'0" Shale 10" Coal 10" Shale 3" Coal 5" Coal & Shale 10" Coal 1'0" Shale 3" Coal 1'6"
n. Counter Slope	131'				Dirty Coal 1'0" Shale 2" Coal 1'0" Shale 8" Coal 1'10" Shale 9" Coal 10" Shale 2" Coal 4" Shale 4" Coal 1'11"
Level off Diagonal	44'				Shale 9" Coal 1'10" Shale 9" Coal 10" Shale 3" Coal 2'5" Shale 4" Coal 1'10"
5 K. Level	N11				

<u>DISTRICT</u>	<u>FEET ADVANCED</u>	<u>TONS</u>	<u>SHIFTS</u>	<u>CARS</u>	<u>TONS OF ROCK PER SHIFT</u>	<u>REMARKS</u>
3 A. Level	293'					Bony Coal Distorted 5'
Cross-cuts	174'					
3 A. Counter Level	71'					Coal 1'6" Shale 8" Coal 1'1" Shale 2" Coal 10" Bony Coal 2'0"

Total Tonnage - 9665
 (Railway Weights)
 Total Shifts - 2378
 Average per Shift - 4.0643
 Days Worked - 21

MONTHLY REPORT - TABLE RIVER MINE

NOVEMBER, 1950

<u>DISTRICT</u>	<u>FEET</u>	<u>ADVANCED</u>	<u>TONS</u>	<u>SHIFTS</u>	<u>CARS</u>	<u>WAGONS</u>	<u>REMARKS</u>
					<u>BY</u>	<u>PER</u>	
					<u>ROCK</u>	<u>SHEET</u>	
4 L. Return Raise	N11						
4 T. Level	N11						
4 . Counter Raise	91'						
4 Road off 4 ₂ T. Counter	121'						
4 ₂ T. Counter Slope	132'						Shale 5" Coal 2'0" Shale 9" Coal 1'0" Shale 5" Coal 5" Bons 4" Coal 2'0" Bons 5" Coal 1'0"
A-cut off R. Counter Slope	85'						
main Slope	N11						
R. Counter Slope	7'						Dirty Coal 7" Coal 1'6" Shale 7" Coal 1'11" Shale 9" Coal 1'5" Shale 4" Coal 1'1"
Diagonal	N11						
Level off Diagonal	96'						Shale 5" Coal 1'8" Shale 11" Coal 2'0" Shale 8" Coal 1'0" Shale 2" Coal 7" Shale 1'3" Dirty Coal 1'10"
5 R. Level	N11						
5 R. Counter Level	N11						
4 R. Level	35'						Coal 6'3" Shale 2" Coal 11" Dirty Coal 1'9"

Total Tonnage (Railway Weights)	-	11021
Total Shifts	-	2747
Average per shift	-	4.0120
Days Worked	-	22

DECEMBER, 1950

<u>DISTRICT</u>	<u>FEET</u> <u>ADVANCED</u>	<u>TONS</u>	<u>SHIFTS</u>	<u>CARS</u> <u>OF</u> <u>ROCK</u>	<u>TONS</u> <u>PER</u> <u>SHIFT</u>	<u>REMARKS</u>
4 T. Return Raise	137'					Boney Coal 1'0" Shale 8" Boney Coal 8" Shale 11" Coal 3'10"
4 T. Level	N11					
4 T. Level	45'					Shale 6" Coal with Shale bands
T. Counter Slope	130'					Shale 6" Coal 2'3" Shale 3" Coal 10" Shale 5" Coal 4" Shale 4" Coal 4'0"
Main Slope	N11					
R. Counter Slope	N11					
Diagonal	N11					
Level off Diagonal	115'					Coal 1'8" Shale 8" Coal 2'2" Shale 7" Coal 6" Bone 1'6"
4 T. Level	N11					
5 R. Counter Level	N11					
4 R. Level	90'					Soft twisted coal 7'0"
Cross-cuts	21'					
Room off 4R. Level	167'					
4 R. Counter Level	85'					Clay 5" Coal 4'7" Shale & Coal 1'0"
3 R. Level	N11					
Cross-cuts	109'					
3 R. Counter Level	N11					Room Coal 10" Clay 6" Coal 1'10"

<u>DISTRICT</u>	<u>FEET</u> <u>ADVANCED</u>	<u>TONS</u>	<u>SHIFTS</u>	<u>CARS</u> <u>OF</u> <u>ROCK</u>	<u>TONS</u> <u>PER</u> <u>SHIFT</u>	<u>REMARKS</u>
4 L. Return Raise	235'					Coal 1'10" Bone 2" Coal 1'0" Shale 6" Coal 6" Shale 1'3" Coal 2'4"
4 Left	N11					
4 1/2 L. Return Raise (up)	10'					
4 1/2 Left	75'					Dirty Coal 10" Shale 4" Coal 1'4" Shale 3" Coal 6" Shale 1" Coal 1'4"
4 1/2 L. Return Raise (Down)	24'					
1 L. Inbye Main Fault	68'					Coal 2'0" Bone 2" Coal 1'5" Shale 7" Coal 2'6" Shale 5" Coal 1'2"
L. Counter Slope	97'					Coal 3'1" Shale 6" Coal 4" Mining Dirt 2" Coal 10" Shale 2" Coal 1'4" Boney Coal 4" Coal 1'8"
Diagonal Inbye Main Fault	126'					Coal 1'11" Shale 7" Coal 11" Shale 3" Coal 4" Clay 1" Coal 6" Shale 3" Coal 1'0" Dirty Coal 6" Coal 1'3"
Main Slope	N11					
5 Right	N11					
Cross-cut	20'					
5 R. Counter	N41					

<u>DISTRICT</u>	<u>FEET</u> <u>ADVANCED</u>	<u>TONS</u>	<u>SHIFTS</u>	<u>CASES</u> <u>IN</u> <u>ROCK</u>	<u>PIPS</u> <u>IN</u> <u>SHIFTS</u>	<u>REMARKS</u>
4 L. Return Raise	74'					
4 Left	MI1					
4 1/2 L. Return Raise (Up)	15'					
4 1/2 Left	MI1					
Return off 4 1/2 L. (Down)	161'					Shale 1'6" Coal 6" Shale 1'3" Coal 5" Shale 4" Coal 1'4" Boney Coal 4" Coal 1'7"
6 Left Return Raise.	137'					Shale 4" Coal 1'2" Shale 8" Coal 1'11" Bone 3" Coal 1'11" Bone 6" Shale 1'5" Coal 8" Shale 1'11" Coal 9"
6 Left	69'					Shale 6" Coal 2'6" Shale 6" Bone 8" Coal 5" Shale 2'7" Coal 4" Bone 9" Coal 10" Shale 10" Coal 1'2" Shale 4" Coal 11"
Left Counter Slope	57'					Shale 6" Coal 3'0" Shale 8" Coal 1'4" Shale 5" Coal 11" Shale 3" Coal 1'2"
Diagonal off L. Counter	126'					Shale 4" Coal 1'10" Shale 9" Coal 10" Shale 3" Coal 4"

DISTRICT

ADVANCED TONS SHIFTS

QA QA
QA QA
QA QA

REMARKS

Right	74'	Shale 1'10" Coal 1'1" Shale 4" Coal 4" Shale 9" Coal 4'4"
R. Counter	N11	
Right	N11	
s-cut	86'	
R. Counter	93'	Shale 4" Coal 1'1" Shale 5" Coal 4" Shale 2" Coal 5'4"
14 Room	198'	

Total Tonnage (Railway Weights)	-	9473
Total Shifts	-	2563
Average Per Shift	-	3.6961
Days Worked	-	20

MONTHLY REPORT - TRABLE RIVER MINE

MARCH 1951

<u>DISTRICT</u>	<u>FEET</u>	<u>ADVANCED</u>	<u>TONS</u>	<u>SHIFTS</u>	<u>CARS</u> <u>OF</u> <u>ROCK</u>	<u>TONS</u> <u>PER</u> <u>SHIFT</u>	<u>REMARKS</u>
4 Left	Nil						
4½L. Return Raise (Up)	114'						Shale 3'2" Coal 1'11" Shale 1" Coal 1'6"
4. Left	Nil						
Return off 4gL. (Down)	13'						
6 L. Return Raise	268'						Shale 6" Coal 6" Shale 1'7" Coal 1'1" Shale 8" Coal 2'0" Shale 6" Coal 6" Shale 10"
6 Left	Nil						Shale 6" Coal 2'6" Shale 6" Bone 8" Coal 5" Shale 2'7" Coal 4" Bone 5" Coal 10" Shale 10" Coal 1'2" Shale 4" Coal 11"
L. Counter Slope	25'						
Diagonal off L. Counter	118'						Shale 4" Coal 1'9" Shale 11" Coal 7" Shale 2" Coal 6" Shale 2" Coal 11" Shale 4" Coal 1'1"
return off Diagonal	261'						Shale 5" Coal 1'10" Shale 9" Coal 11" Shale 2" Coal 4" Bone 2"

<u>DISTRICT</u>	<u>FEET</u> <u>ADVANCED</u>	<u>TONS</u>	<u>SHIFTS</u>	<u>CARS</u> <u>OF</u> <u>ROCK</u>	<u>TONS</u> <u>PER</u> <u>SHIFT</u>	<u>REMARKS</u>
5right	117'					Shale 5" Coal 1'9" Shale 7" Coal 1'0" Shale 2" Coal 4" Shale 5" Coal 1'9" Shale 1" Coal 2'1"
+ Night	Nil					
Cross-out	Nil					
4 R. Counter	111'					Coal 1'0" Shale 4" Coal 5'0"
#14 Room	34'					

Total Tonnage (Railway Weights)	-	10804
Total Shifts	-	2795
Average Per Shift	-	3.8655
Days Worked	-	21

MONTHLY REPORT - TRABLE RIVER

APRIL, 1951

<u>DISTRICT</u>	<u>FEET</u> <u>ADVANCED</u>	<u>TONS</u>	<u>SHIFTS</u>	<u>CARS</u> <u>OF</u> <u>ROCK</u>	<u>TONS</u> <u>PER</u> <u>SHIFT</u>	<u>REMARKS</u>
4 Left	Nil					
4 1/2 L. return raise	104'					Shale 3'3" Coal 3'1"
5 Left	Nil					
6 L. return raise	104'					
1-cut off 6 L. return raise	27'					Coal 9" Shale 3" Coal 1'6" Shale 8" Coal 3'3"
6 Left	Nil					Shale 6" Coal 2'6" Shale 6" Bone 8" Coal 5" Shale 2'7" Coal 4" Bone 5" Coal 10" Shale 10" Coal 1'2" Shale 4" Coal 11"
7. Counter slope	18'					
Diagonal off L. Counter	11'					Shale 4" Coal 2'0" Shale 10" Coal 1'5" Shale 2" Coal 2'0"
1-cut off 7. Counter	66'					
8. Counter slope (Up)	92'					
9 Right	112'					
5a. Counter Diagonal	123'					Coal 2'2" Shale 7" Coal 1'10" Shale 1'3" Coal 4'8"
4 Right	Nil					
	244'					

MAY, 1951

<u>DISTRICT</u>	<u>FEET</u> <u>ADVANCED</u>	<u>TONS</u>	<u>SHIFTS</u>	<u>CARS</u> <u>OF</u> <u>ROCK</u>	<u>TONS</u> <u>PER</u> <u>SHIFT</u>	<u>REMARKS</u>
4 Left	N11					
4 1/2 L. Return Raise	95'					
4 1/2 Left	N11					
X-cut off 6L. Return Raise	120'					
oft	N11					Shale 6" Coal 2'6" Shale 6" Bone 8" Coal 5" Shale 2'7" Coal 4" Bone 5" Coal 10" Shale 10" Coal 2" Shale 4" Coal 11"
5. Counter Slope	N11					
Diagonal off L. Counter	11'					
Level off Diagonal	68'					
Slope Up Off Diagonal	180'					Shale 8" Coal 1'11" Shale 8" Coal 10" Shale 3" Coal 4'5"
5 Right	168'					Coal 4'0" Shale 7" Coal 4'0"
5 W. Counter Diagonal	100'					
4 R. Level	150'					Coal 6'4" Distorted
Total Tonnage (Railway Weights)				-	9663	
Total Shifts				-	2510	
Average per Shift				-	3.8498	
Days Worked				-	21	

MONTHLY REPORT - TABLE RIVER

JUNE, 1951

<u>DISTRICT</u>	<u>FEET ADVANCED</u>	<u>TONS SHUTTS</u>	<u>CARS OF ROCK</u>	<u>TONS PER SHIFT</u>	<u>REMARKS</u>
4 left	Nil				
6 left	Nil				Shale 6" Coal 2'6" Shale 6" Bone 8" Coal 5" Shale 2'7" Coal 4" Bone 5" Coal 10" Shale 10" Coal 1'2" Shale 4" Coal 11"
7. Counter Slope	Nil				
Diagonal off L. Counter	Nil				
Slope off Diagonal	14'				Coal 1'10" Shale 8" Coal 10" Shale 2" Coal 1'1" Shale 2" Coal 1'2" Shale 2" Coal 1'0" Shale 2" Coal 2'0"
Level off Diagonal	30'				Coal 2'2" Shale 6" Coal 1'11" Shale 1'0" Coal 1'6" Shale 2" Coal 1'8" Shale 3" Coal 1'4"
Slope Up off Diagonal	248'				
Diagonal Up off 5 Right	29'				Coal 1'3" Shale 2" Coal 6" Shale 1'6" Coal 2'8"
Counter diagonal off 5 Right	56'				Coal 2'1" Shale 1'6" Coal 10" Shale 10"

Total Tonnage (Railway Weights)	-	10802
Total Shifts	-	2575
Average Per Shift	-	4.1950
Days Worked	-	21

MONTHLY REPORT - TSABLE RIVER

JULY, 1951

<u>DISTRICT</u>	<u>FEET ADVANCED</u>	<u>TONS</u>	<u>SHIFTS</u>	<u>CARS OF ROCK</u>	<u>TONS PER SHIFT</u>	<u>REMARKS</u>
4 Left	N11					
6 Left	N11					
L. Counter Slope	N11					
Top off Diagonal	93'					Coal 2'0" Shale 1'11" Coal 1'7" Shale 4" Coal 1'3" Shale 3" Coal 1'2"
Diagonal off L. Counter	N11					
Level off L. Counter	46'					Coal 1'3" Shale 6" Coal 1'9" Shale 10" Coal 2'7" Shale 4" Coal 1'2"
Diagonal up off 5 Right	131'					Soft Brown Shale Coal 1'10" Shale 11" Coal 2'2"
Counter Diagonal 5 Right	47'					
5 Right	30'					Coal 1'11" Shale 10" Coal 1'8" Shale 3" Coal 4" Shale 3" Coal 2'8"
5 Right Counter	N11					Coal 4'0" Shale 7" Coal 4'0"
4 Right x-cut	88'					
4 Right Counter	154'					Twisted coal 8'
		Total Tonnage				- 4761
		(Railway Weights)				
		Total Shifts				- 1238

MONTHLY REPORT - T. SABLE RIVER MINE:

AUGUST, 1951.

<u>DISTRICT.</u>	<u>FEET ADVANCED:</u>	<u>TONS:</u>	<u>SHIFTS:</u>	<u>CARS OF ROCK:</u>	<u>TONS PER SHIFT:</u>	<u>REMARKS</u>
3 Left	34'					Coal 1' Shale Coal 1' Shale Coal Shale Coal 3'
2. Counter Slope	Nil					
Dip off Diagonal	65'					
Level to right off Diag.	110'					Coal 2' Shale Coal 3' Shale Coal 2'
Place to right off Diag.	93'					
Diagonal up off 5 Right,	175'					
Counter Diag., 5 right,	61'					
No. 5 right	86'					Coal 2' Shale Coal 2' Shale Coal Shale Coal 5'
5 Right Counter	Nil					
4 n. cross-cut	50'					
4 Right Counter	68'					

Total tonnage (Railway weights) 10,830

Total shifts 2,799

Average per shift: 3.8692

Days worked 23

MONTHLY REPORT - T. SABLE RIVER MINE:

SEPTEMBER, 1951.

<u>DISTRICT:</u>	<u>FEET ADVANCED:</u>	<u>TONS:</u>	<u>SHIFTS:</u>	<u>CARS OF ROCK:</u>	<u>TONS PER SHIFT:</u>	<u>REMARKS</u>
Crosscuts, r3 Left,	76'					Coal Shale
Shaft,	232'					Coal Shale Coal Shale Coal 1 Bone Coal 2
Counter slope	Nil					
Dip off Diagonal	Nil					
Level to Right off Diag.	121'					Coal 2' Shale Coal 2' Shale 1 Coal 4'
Raise off Right Level	155'					
Raise off Diagonal	194'					
Counter Diagonal off No. 5 Right,	100'					
No. 5 Right	105'					Shale 1 Coal 5 Shale Coal 5'
Crosscut off No. 5 Right	20'					
No. 5 Right Counter Level,	Nil					

Total tonnage (Railway weights)	10,316
Total shifts	2,398
Average per shift	4.3019

Days worked: 19.

MONTHLY REPORT - T'SARLE RIVER MINE

OCTOBER - 1951.

<u>DISTRICT</u>	<u>FEET ADVANCED</u>	<u>TONS</u>	<u>SHIFTS</u>	<u>CARS OF ROCK</u>	<u>TONS PER SHIFT</u>	<u>REMARKS</u>
Crosscuts, 3 Left	156					Coal 1 Shale
3 Left	216					Coal Shale Coal Shale Coal Shale Coal Shale 1 Coal 1
Left Counter Slope	NIL					
Dip off Diagonal	NIL					
Level to Right off Diagonal	56					Coal 2 Shale Coal 2 Shale 1 Coal 4
No. 2 Raise off Right level	37					Coal 1 Shale Coal Shale Coal 2 Shale 1 Coal 4
No. 1 Raise off Right level	137					Coal 1 Shale Coal Shale Coal 2 Shale 1 Coal 4
Raise off Diagonal	89					Coal 1 Shale
Counter Diagonal off 5 Right	115					Coal 1 Shale Coal 1 Shale Coal 3
No. 5 Raise	22					Coal with

MONTHLY REPORT - T'SABLE RIVER MINE.

NOVEMBER - 1951.

<u>DISTRICT</u>	<u>Feet Advanced</u>	<u>Tons</u>	<u>Shafts</u>	<u>Cars of Rock</u>	<u>Tons per Shift</u>	<u>REMARKS.</u>
Crosscuts, 3 Left	221					Shale 2" Coal 1'5" Shale 8" Coal 1'10" Shale 4" Coal 7" Shale 1'11" Coal 1'6" Shale 2" Coal 9" Coal 1'11" Shale 2" Coal 7" Shale 1'11" Coal 2'0" Shale 2" Boney Coal 2"
3 Left	226					Coal 1'0" Shale 2" Coal 7" Shale 1'11" Coal 2'0" Shale 2" Boney Coal 2"
L. Counter Slope	nil					----- Coal 1'0" Shale 2" Coal 2'11" Shale 1'0" Coal 1'0" Shale 1'11" Coal 1'11" Shale 1'11" Coal 1'11"
Crosscut off L. Counter 121						----- Coal 1'0" Bone 1'11" Coal 1'11" Shale 1'11" Coal 1'11" Shale 1'11" Coal 1'11" Shale 1'11" Coal 1'11"
6 Right	22					----- Coal 1'0" Bone 1'11" Coal 1'11" Shale 1'11" Coal 1'11" Shale 1'11" Coal 1'11" Shale 1'11" Coal 1'11"
No. 2 Raise off 6 Right	150					----- Coal 1'0" Mining Dirt 1'11" Coal 2'11" Mining Dirt 1'11" Coal 3'11"
Crosscuts off 2 Raise	97					----- Coal 1'0" Mining Dirt 1'11" Coal 2'11" Mining Dirt 1'11" Coal 3'11"
Counter Diagonal off 5 Right	232					----- Coal 1'0" Mining Dirt 1'11" Coal 2'11" Mining Dirt 1'11" Coal 3'11"

DISTRICT	Feet Advanced	Tons	Shifts	Cars of Rock	Tons per Shift	REMARKS
5 Right Counter	1					Coal 3'8" Shale 7" Coal 3'0" Shale 3" Coal 5"
5 Right Raise	80					Coal 2'2" Shale 5" Coal 1'8" Shale 1'3" Coal 3'5"

TOTAL SEWEAGE (Railway weights) 11,555

cc: EOTS
WWJ
CHM
SJL
Eng. Dept. (3)

TOTAL SHIFTS (exclusive of
51 shifts App.) 2,797 7/8

AVERAGE PER SHIFT 4.0584

DAYS WORKED 21

MONTHLY REPORT - T'SABLE RIVER MINE - DECEMBER, 1951.

District	Feet Adv.	Tons	Shifts	Cars of Rock	Tons per Shift	Remarks.
No. 4 Crosscut	141					Coal 1'4"
						Shale 3"
						Coal 5"
						Shale 2"
						Coal 1'3"
						Shale 4"
						Coal 4"
						Shale 1'4"
3 Left Counter	54					Coal 1'8"
						Shale 7"
						Coal 5"
						Shale 3"
						Coal 1'2"
						Shale 6"
						Coal 10"
						3 Left
Shale 6"						
Coal 8"						
Shale 1'10"						
Coal 3'1"						
L. Counter Slope	nil					
Xcut off L. Counter	49					
6 Right	60					Coal 2'3"
						Shale 7"
Xcuts off #2 Road	172					Coal 2'7"
						Coal 2'0"
						Shale 10"
						Coal 1'9"
						Shale 5"
						Coal 1'8"
						Shale 2"
						Coal 3'0"
1 Left. Count. Lev. off Count. Diag.	106					Coal 8"
						Shale 2"
						Coal 1'1"
						Shale 5"
						Coal 1'11"
						Shale 7"
						Coal 1'5"
						Shale 3"
						Coal 1'1"
						Boney Coal 5"
Coal 1'5"						
Dirty Coal 10"						

District	Feet Adv.	Tons	Shifts	Cars of Rock	Tons per Shift	Remarks
5 Right	75					Shale 10
						Coal 1'10
						Shale 8
						Coal 1'6
						Shale 5
						Coal 2'10
						Shale 2
						Coal 1'2
5 Right Counter	24					Shale 7
						Coal 3'10
						Shale 7
						Coal 11
						Bone 4
Coal 2'5						
Raise off 5 Right	60					
Total Tonnage (railway weights)					8,784	
Adjusted total shifts					2,363	
Average per shift					3.7173	
Days worked					18	

cc: WJ
 RS.
 SJL.
 Eng. Dept. ✓

694 MI

CANADIAN COLLIERIES (DUNSMUIR) LTD
 LOCATION OF BORE HOLES IN CUMBERLAND COALFIELD

Latitudes and Departures from Cumberland Monuments.

No	LOCATION	LATITUDE	DEPARTURE	REMARKS	No	LOCATION	LATITUDE	DEPARTURE	REMARKS
1	D.L. 24. Nelson Dist.	N. 2390.0	W. 1610.0	Scaled from 400' Map	136	N.E. 1/4 Sec 5. T ⁹ Comox Dist.	N. 18278.31	W. 19153.33	
2	D.L. 21	N. 790.0	W. 2065.0	Inside City Limits - Scaled	7	S.E. 1/4 --- 8 --- 9 ---	N. 19223.31	W. 19509.33	
3	D.L. 24	N. 632.22	W. 4325.82		8	S.E. 1/4 --- 8 --- 9 ---	N. 19845.51	W. 20529.03	
4	D.L. 24	N. 2210.0	W. 4445.0	Scaled from 400' Map	9	Sec 3 Nelson Dist.	S. 1528.4	W. 2408.3	
5	D.L. 24	N. 222.0	W. 5210.0		140	S.W. 1/4 Sec 27. T ¹⁰ Comox Dist.	N. 5204.6	W. 10591.0	
6					1	S.W. 1/4 --- 27 --- 10 ---	N. 4784.6	W. 10991.3	
7	N.E. 1/4 Sec 28. T ¹⁰ Comox Dist.	N. 6035.0	W. 12515.0	Scaled from 400' Map	2	N.E. 1/4 --- 27 --- 10 ---	N. 6759.1	W. 8953.8	
8	S.W. 1/4 --- 27 --- 10 ---	N. 5547.5	W. 11365.0		3	N.E. 1/4 --- 4 --- 9 ---	N. 18199.61	W. 13880.63	
9	N.W. 1/4 --- 27 --- 10 ---	N. 6485.5	W. 11262.3		4	S.W. 1/4 --- 4 --- 9 ---	N. 13733.51	W. 16557.43	
10	D.L. 24. Nelson Dist.	N. 2120.0	W. 7880.0	Scaled from 400' Map	5	N.W. 1/4 --- 33 --- 10 ---	N. 12708.25	W. 15444.55	
11	D.L. 24	N. 2505.0	W. 7950.0		6	N.W. 1/4 --- 33 --- 10 ---	N. 12798.21	W. 16515.43	
12	S.E. 1/4 Sec 27. T ¹⁰ Comox Dist.	N. 3535.0	W. 7725.0		7	N.W. 1/4 --- 33 --- 10 ---	N. 11721.61	W. 14498.43	
13	S.W. 1/4 --- 26 --- 10 ---	N. 3530.0	W. 6220.0		8	N.E. 1/4 --- 4 --- 9 ---	N. 18224.61	W. 13268.43	
14	S.W. 1/4 --- 26 --- 10 ---	N. 4400.0	W. 5610.0		9	N.W. 1/4 --- 33 --- 10 ---	N. 11329.41	W. 15435.13	
15					150	N.E. 1/4 --- 34 --- 10 ---	N. 13254.23	W. 8019.21	
16					1	S.E. 1/4 --- 34 --- 10 ---	N. 8488.66	W. 7816.64	
17	S.W. 1/4 Sec 25. T ¹⁰ Comox Dist.	N. 3025.0	W. 55.0	Scaled from 400' Map	2	N.E. 1/4 --- 4 --- 9 ---	N. 19152.29	W. 16601.31	
18	D.L. 24 Nelson Dist.	N. 1588.2	E. 2046.5		3	S.W. 1/4 --- 9 --- 9 ---	N. 8565.0	W. 7700.0	Scaled from 400' Map
19	Sec 3	S. 2107.0	W. 2215.2	At Sutton's Road	4	S.E. 1/4 --- 34 --- 10 ---	N. 21009.0	W. 16488.0	Water Hole for No. 25. No. 4 Mine
20	Sec 3	S. 465.0	W. 425.0	Scaled from 400' Map	5	S.W. 1/4 --- 9 --- 9 ---	N. 12654.97	W. 15848.75	Scaled from 400' Map
21	D.L. 24	N. 2309.8	E. 1423.6	Near North Boundary	6	N.W. 1/4 --- 33 --- 10 ---	N. 2306.31	W. 317.40	
22	N.W. 1/4 Sec 25. T ¹⁰ Comox Dist.	N. 2687.5	E. 646.7		7	D.L. 24. Nelson Dist.	N. 2097.55	W. 401.83	
23	D.L. 24 Nelson Dist.	S. 150.0	W. 3420.0	Scaled from 400' Map	8	D.L. 24	N. 2725.66	W. 221.49	
24	N.W. 1/4 Sec 25. T ¹⁰ Comox Dist.	N. 11194.0	W. 4898.0		9	D.L. 24	N. 1990.0	W. 1210.0	Scaled from 400' Map
					160	D.L. 24	N. 2650.14	E. 670.11	
8D	N.W. 1/4 Sec 4. T ⁹ Comox Dist.	N. 16691.41	W. 16166.83		1	D.L. 24	N. 3912.09	E. 169.07	
9D	N.W. 1/4 --- 4 --- 9 ---	N. 17090.11	W. 15583.93		2	S.W. 1/4 Sec 25. T ¹⁰ Comox Dist.	N. 4876.20	E. 616.40	
10D	N.W. 1/4 --- 4 --- 9 ---	N. 17802.81	W. 14549.83		3	S.W. 1/4 --- 25 --- 10 ---	N. 3575.85	E. 4152.76	
11D	N.E. 1/4 --- 4 --- 9 ---	N. 18715.21	W. 13320.43		4	S.E. 1/4 --- 25 --- 10 ---	N. 5027.53	E. 1643.02	
12D	S.E. 1/4 --- 9 --- 9 ---	N. 19501.21	W. 12225.83		5	S.E. 1/4 --- 25 --- 10 ---	N. 7648.36	E. 1578.94	
13D	S.E. 1/4 --- 9 --- 9 ---	N. 22688.01	W. 11845.83		6	N.E. 1/4 --- 25 --- 10 ---	N. 4309.91	E. 9375.94	
					7	S.E. 1/4 --- 30 Nelson Dist.	N. 10966.79	E. 3400.78	
					8	S.E. 1/4 --- 36 T ¹⁰ Comox Dist.	N. 9433.95	E. 7413.91	
					9	Lot 22. Nelson Dist.	S. 111.78	E. 8240.15	Near S.E. Cor. Lot 20.
101	S.E. 1/4 Sec 3. T ⁹ Comox Dist.	N. 14752.72	W. 6611.12		170	Block 79	N. 6743.08	E. 4030.0	
2	S.W. 1/4 --- 3 --- 9 ---	N. 16088.8	W. 10683.0		1	N.E. 1/4 Sec 25. T ¹⁰ Comox Dist.	N. 3291.02	W. 3749.42	
3	Lot 135 --- 9 ---	N. 19097.7	W. 7551.0		2	S.E. 1/4 --- 26 --- 10 ---	N. 4389.98	W. 1554.79	
4	S.W. 1/4 Sec 2 --- 9 ---	N. 15398.7	W. 5132.1		3	S.E. 1/4 --- 26 --- 10 ---	N. 7123.69	W. 3037.74	
5	Lot 154 in Sec 28 --- 9 ---				4	Sec 3 Nelson Dist.	S. 5236.39	E. 6.21	in S.E. Portion
6	N.W. 1/4 Sec 35. T ¹⁰ ---	N. 12940.5	W. 6096.5		5	S.W. 1/4 Sec 36. T ¹⁰ Comox Dist.	N. 2629.09	W. 795.84	
7	S.W. 1/4 --- 21 --- 9 ---				6	Lot 15 Nelson Dist.	N. 5606.06	E. 6036.81	
8	Lot 227 --- 9 ---	N. 20589.0	W. 4363.0	Scaled from 400' Map	7	Block 144 --- ---	S. 4010.22	E. 2385.80	Near North Boundary
9	S.E. 1/4 Sec 20 --- 9 ---				8	D.L. 24 --- ---	S. 1740.0	E. 5950.0	by scale East ---
110	N.W. 1/4 --- 16 --- 9 ---	N. 27644.0	W. 15033.0	Scaled from 400' Map	9	D.L. 24 --- ---	N. 40.0	E. 2670.0	by scale
1	S.W. 1/4 --- 20 --- 9 ---				180	D.L. 24 --- ---	N. 8287.24	W. 14004.69	
2	N.W. 1/4 --- 10 --- 9 ---	N. 22374.0	W. 10988.0	Scaled from 400' Map	1	S.E. 1/4 Sec 33. T ¹⁰ Comox Dist.	N. 10008.10	W. 14993.02	
3	N.W. 1/4 --- 15 --- 9 ---	N. 27699.0	W. 11228.0		2	S.W. 1/4 --- 33 --- 10 ---	N. 10374.86	W. 16118.85	
4	S.W. 1/4 --- 20 --- 9 ---				3	S.W. 1/4 --- 33 --- 10 ---	N. 10397.22	W. 15457.44	
5	N.E. 1/4 --- 10 --- 9 ---	N. 23039.0	W. 8673.0	Scaled from 400' Map	4	Lot 227 --- 9 ---	N. 20025.65	W. 4267.83	
6	N.W. 1/4 --- 9 --- 9 ---	N. 23340.21	W. 16312.63		5	Lot 94 --- 9 ---	N. 17554.74	W. 1497.50	
7	N.E. 1/4 --- 34 --- 10 ---				6	Lot 94 --- 9 ---	N. 17206.52	W. 4571.36	
8	N.E. 1/4 --- 17 --- 9 ---	N. 27289.0	W. 18273.0	Scaled from 400' Map	7	Lot 82 --- ---	N. 14348.32	E. 13286.74	
9	Lot 228 --- 9 ---	N. 17234.41	W. 7049.23		8	Lot 231 --- ---	N. 14947.87	E. 7317.70	
120	Sec 29 --- 9 ---				9	Lot 231 --- ---	N. 8904.47	E. 20513.22	
1	N.E. 1/4 Sec 17. T ⁹ Comox Dist.	N. 15213.51	W. 9118.43		190	Sec 6A --- ---	N. 9091.79	E. 12232.38	
2	S.W. 1/4 --- 3 --- 9 ---	N. 14789.0	E. 162.0	Scaled from 400' Map	1	Lot 14 --- ---	N. 4973.14	E. 14779.95	
3	Lot 233 --- 9 ---	N. 14789.0	E. 162.0		2	S.W. 1/4 Sec 28 --- ---	N. 16160.74	W. 13052.79	
4	D.L. 21 Nelson Dist.	N. 475.61	E. 46.0		3	S.E. 1/4 --- 4 T ⁹ Comox Dist.	N. 13390.34	W. 11516.54	
5	D.L. 24 --- ---	N. 1802.7	W. 566.5		4	N.W. 1/4 --- 34 --- 10 ---	N. 12538.72	W. 9857.75	
6	S.E. 1/4 Sec 26. T ¹⁰ Comox Dist.	N. 5300.8	W. 2209.3		5	N.W. 1/4 --- 34 --- 10 ---	N. 18514.35	W. 9973.52	
7	N.E. 1/4 --- 34 --- 10 ---	N. 11809.82	W. 8446.18		6	N.W. 1/4 --- 3 --- 9 ---			
8	S.W. 1/4 --- 9 --- 9 ---	N. 12279.11	W. 14278.93		7				
9	S 1/2 --- 9 --- 9 ---	N. 19352.81	W. 14476.83		8	Block 410 NELSON DIST.	59474.54	W. 10473.95	Near West Boundary
130	S.W. 1/4 --- 9 --- 9 ---	N. 20807.91	W. 15558.73		9	--- 703 --- ---	56971.99	W. 14213.41	Near North Boundary
1	S.W. 1/4 --- 9 --- 9 ---	N. 20774.51	W. 15612.33		200		S. 7148.08	W. 15258.66	Hamilton Lake Area
2	S.W. 1/4 --- 9 --- 9 ---	N. 19687.01	W. 16491.33		1		S. 7263.68	W. 14931.88	
3	S.E. 1/4 --- 8 --- 9 ---	N. 20539.0	W. 17088.0	Scaled from 400' Map	2		S. 7754.94	W. 14991.69	
4	N.E. 1/4 --- 5 --- 9 ---	N. 18614.41	W. 17522.82		3		S. 7600.23	W. 16090.84	
5	N.E. 1/4 --- 5 --- 9 ---	N. 17489.71	W. 18501.23		4		S. 8350.14	W. 16313.47	
					Water Hole	N.E. 1/4 Sec 34. T ¹⁰ Comox Dist.	N. 12317.28	W. 8528.90	No. 15 Slope No. 4 Mine

BORE HOLES IN GUMBERLAND FIELD

694 (M)

Main data table with columns: Borehole No, District, Section, Township, Bore started, Bore finished, Elev above N.W. of corner, 1 Coal Section, 2 Coal Section, 3 Coal Section, 4 Coal Section, 5 Coal Section, Total Depth of Borehole, Remarks, Analysis, Analysis.

No. 1 (Upper) Seam Shown Green
No. 2 " " " Blue
No. 4 (Lower) " " " Red

— BORE HOLES IN CUMBERLAND FIELD —

694

Bore Hole No.	District	Section or Loc.	Township	Bore Started	Bore Finished	El. above H.W.M. of Union Bay	1 Coal Section Depth	2 Coal Section Depth	3 Coal Section Depth	4 Coal Section Depth	5 Coal Section Depth	Total Depth of Bore Hole	Remarks	Analysis	Analysis										
188	Comox	L. 82		Jun. 6/41	Nov. 3/41	32.2'	Coal & Shale 2' Shale 2' Coal 2' 6 Shale & Coal 4' Coal 3' Shale 2' Coal 8' Shale 1' Coal 8' Shale 2' 6" Coal 2' 5" Shale 1' 1"	Shale & Coal 6' Coal 1' 0" Shale 6' 7 Shale & Coal 2' Shale 2' 10" Coal 10' Shale 1' 8" Shale & Coal 1' 0" Shale & Coal 3' Shale 1' 6" Shale & Coal 6' 9 Coal 1' 0" Shale 5' Coal 1' 2" Shale 2' 10" Coal 1' 9"	Coal & Shale 3' Coal 3' 10 Shale & Coal 2' Coal 2' Coal & Shale 2' Coal & Shale 2' Coal 4' Coal 2' Coal & Shale 2' Coal & Shale 2' Shale & Coal 2' Coal 4' Shale & Coal 2' Shale & Coal 2' Shale & Coal 3'	1497' 0"	1497' 0"	1546' 0"	1546' 0"	1744' 9"	1744' 9"	1828' 5"	1828' 5"	1872' 9"	1872' 9"	1950' 0"	1950' 0"	Drilled by F. Wall.	No. 5 Core 2' 11" Moisture 1.40 Vol. Matter 35.45 Fixed Carbon 49.41 Ash 13.74 100.00 B.T.U. 12729	No. 11 Core 1' 10" Moisture 1.23 Vol. Matter 34.81 Fixed Carbon 44.78 Ash 12.18 100.00 B.T.U. 11713	
189	Comox	L. 231		Oct. 23/44	Apr. 2/45	149.0'	Shale 5' Coal 3' Shale 6' 6 Coal & Shale 2' Coal 1' 4" Coal & Shale 4' Coal 3' 0" Coal & Shale 4' Coal 2' Coal & Shale 2' Shale 2' Coal 2' Shale & Coal 2' Shale 11'	Shale & Coal 9' Coal 6' 7 Coal 4' Shale 4' Coal 1' 4" Shale 2' Coal 3'	Coal 6' Shale 8' Shale 5' 4" Shale & Coal 5' Coal 11' 8 Shale & Coal 1' 0" Shale 6' Shale 3' Coal 1' 8" Shale & Coal 2'	Coal 10' Shale 3' Shale & Coal 3' Coal 9' Coal & Shale 3' Coal 1' 7" 5' 5" & Coal 2'	1441' 6"	1441' 6"	1477' 9"	1477' 9"	1522' 0"	1522' 0"	1711' 7"	1711' 7"	1931' 0"	1931' 0"	Drilled by F. Wall.				
190	Nelson	S. 6A		Nov. 17/45	Sep. 11/45	18.0'	Coal 6' 6 5' 5" Coal 2' Shale & Coal 3' 8" Shale & Coal 3' 5" Coal 5' Coal & Shale 2'	Coal 6' Shale 1' 1" Coal 1' 3" Coal 1' 3" Coal 1' 3" Shale 6' 7 Shale & Coal 3' Shale 1' 6" Shale & Coal 2' Shale 2' Coal & Shale 2' 3" Coal & Shale 3' Coal 2'	Coal & Shale 10' Shale 1' 4" Coal 1' 2" Coal & Shale 4' Coal 3' Shale 3' Coal & Shale 1' 9" Shale 2' 0" Coal 1' 8" Shale 1' 0" Coal & Shale 6' Coal 8' Shale 6'	Coal & Shale 1' 2" Coal & Shale 2'	1498' 8"	1498' 8"	1498' 8"	1498' 8"	1541' 5"	1541' 5"	1629' 11"	1629' 11"	1651' 0"	1651' 0"	Drilled by F. Wall.				
191	Nelson	L. 14	11	Dec. 10/45	Mar. 11/46	207.6'	Shale & Coal 6' Coal 1' 0" 6 Shale & Coal 4' Shale 6' Coal 1' 11" Shale 2' 0" Coal 1' 0" Shale & Coal 1' 0" Shale 3'	Shale & Coal 6' 10" Coal 2' 4" Coal & Shale 3'	Coal 1' 2" Shale 10' 8" Coal 3' 11" 8 Shale & Coal 6' Coal 5' 10" Shale & Coal 8' Coal 4' Coal & Shale 1' 0"	Coal 1' 6" Coal & Shale 2'	1640' 6"	1640' 6"	1640' 6"	1640' 6"	1866' 10"	1866' 10"	1855' 7"	1855' 7"	1879' 0"	1879' 0"	Drilled by F. Wall.				
192	Nelson	S. 28	11	Jan. 26/46	Nov. 13/46	218.7'	Coal 4' Shale & Coal 4' Shale 6' 11" Coal 6' Coal 6' Coal & Shale 3'	Shale & Coal 2' Coal 1' 0" Coal & Shale 1' 3" Coal 1' 3" Coal & Shale 5' 10" Shale 6' 6" Shale 8'	Shale & Coal 6' Coal & Shale 8' Coal 10' 7 Shale & Coal 6' Coal & Shale 1' 0" Shale 1' 2" Coal & Shale 4'	Shale & Coal 9' Coal 3' 6" Shale 3' Coal 1' 5" Coal & Shale 1' 2" Coal 5'	1307' 8"	1307' 8"	1307' 8"	1307' 8"	1320' 8"	1320' 8"	1403' 0"	1403' 0"	1430' 7"	1430' 7"	1456' 0"	1456' 0"	Drilled by F. Wall.		

Canadian Collieries (Danmair) Ltd.

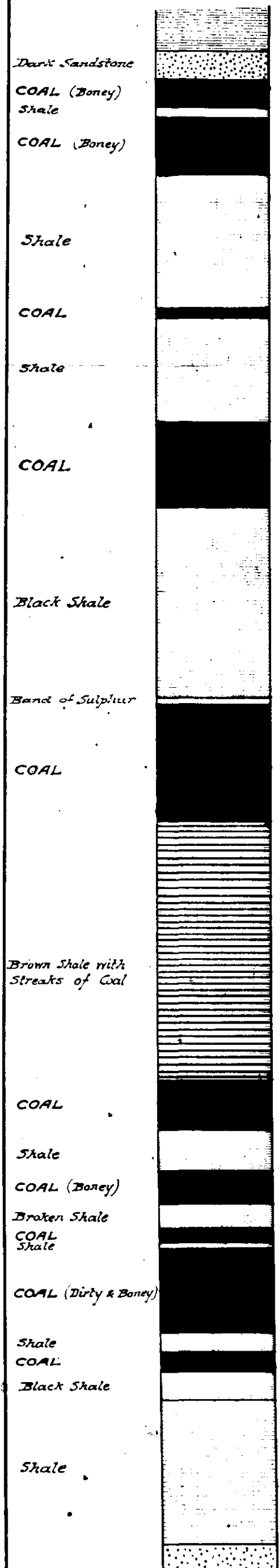
PROSPECT HOLE No 127

Comox District

Scale 1" = 20'

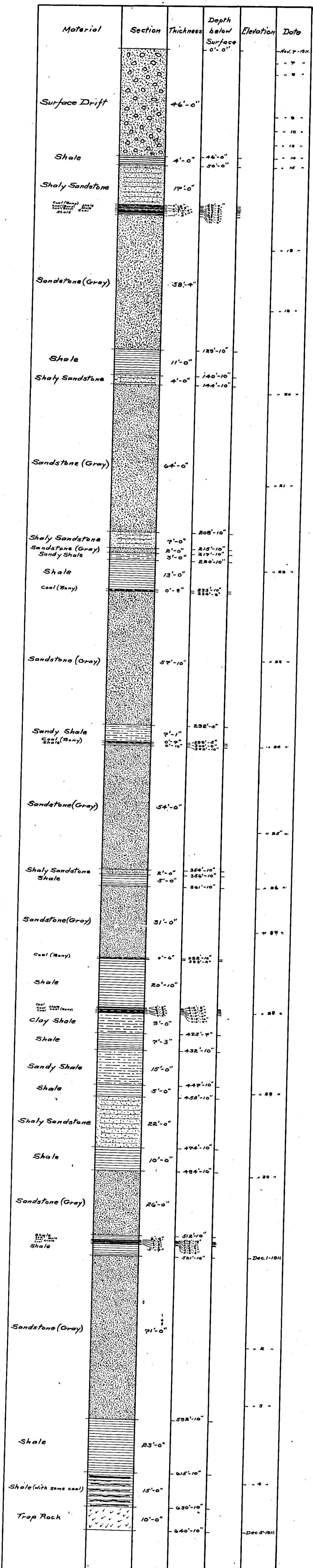
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MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEVATION	DATE
Loose Soil & small Boulders	0 0 0 0 0 0	3' 0"	3' 0"	616.3	July 22nd 1902
Coarse Sand & small Boulders	0 0 0 0 0 0	7' 0"	10' 0"	613.3	- 23rd
				606.3	- 24th
					- 25th
Coarse Sand & Gravel		44' 0"			- 26th
					- 27th
Fine Sand		4' 0"	54' 0"	562.3	- 28th
Fine Sand & Gravel		4' 0"	58' 0"	558.3	
Gravel		1' 0"	62' 0"	554.3	
Gravel & Fine Sand		2' 0"	65' 0"	551.3	Aug 17th
Coarse Sand		2' 0"	68' 0"	548.3	
Coarse Gravel & Sand		15' 0"			- 26th
					- 27th
					- 28th
					- 29th
Sand & Gravel		3' 0"	83' 0"	533.3	Sept 1st
			86' 0"	530.3	- 2nd
Hard Sand & Gravel		34' 0"			- 3rd
					- 8th
Loose Gravel		3' 0"	120' 0"	496.3	- 9th
			123' 0"	493.3	- 10th
Hard White Fine Sand		17' 0"			
			140' 0"	476.3	- 11th
Layers of Hard Fine Sand		10' 0"			
			150' 0"	466.3	- 12th
Gray Clay full of Gravel		6' 0"			
			156' 0"	460.3	- 13th
Coarse Sand & Gravel		15' 0"			
			171' 0"	445.3	- 14th
Coarse Sand with Boulders	0 0 0 0 0 0	7' 0"	178' 0"	438.3	- 17th
					- 18th
					- 19th
					- 20th
Sandstone		54' 8"			- 28th
Shale		1' 4"	232' 8"	383.6	
			234' 0"	382.3	
Sandstone		54' 0"			- 29th
Shale		16' 6"	288' 0"	328.3	
COAL		10"	304' 6"	311.8	
COAL (Bony)		2' 8"	308' 0"	308.3	
Sandstone		6' 6"	318' 0"	301.3	- 30th
Dark Sandstone		48' 0"			
Shale		2' 4"	363' 0"	253.3	Oct 1st 1902
COAL		2"			
Shale		1' 10"			
COAL		1' 6"	394' 0"	222.3	
Black Shale		3' 4"			- 2nd
Band of Sulphur		1'			
COAL		2' 1"			- 3rd
Brown Shale with Streaks of Coal		4' 6"			- 4th
Sandy Shale		7' 0"	491' 0"	125.3	
Dark Sandstone		5' 6"	496' 6"	118.3	
Shale		2' 4"	503' 0"	112.3	
COAL		1' 10"	507' 0"	108.3	
COAL		3' 4"	514' 0"	102.3	
Shale		2' 1"	517' 0"	100.3	
Band of Sulphur		1'	518' 0"	99.3	
COAL		2' 6"	524' 0"	93.3	
Shale		8"	532' 0"	85.3	
COAL (Bony)		7"	539' 0"	78.3	
Broken Shale		3"	542' 0"	75.3	
COAL		1' 6"	548' 0"	69.3	
Shale		4"	552' 0"	65.3	
COAL		4"	556' 0"	61.3	
Black Shale		6"	562' 0"	55.3	
Shale		2' 6"	568' 0"	49.3	- 7th
Gray Sandstone		16' 4"			
Sandy Shale		1' 6"	583' 0"	38.3	
Shale		2' 8"	590' 0"	31.3	
Gray Sandstone		16' 3"			
Light Shale		8' 3"	603' 3"	13.1	
Shale		5' 0"	612' 0"	4.3	- 8th
Coal		4' 0"	617' 0"	- 0.9	
Shaly Sandstone		0' 8"	621' 4"	- 4.3	
Coal		0' 3"	623' 0"	- 7.9	
Shaly Sandstone		1' 3"	625' 0"	- 10.9	1914
Sandstone		40' 0"	677' 0"	50.9	21 April
Shale		20' 0"	697' 0"	70.9	
Coal		1' 0"	698' 0"	71.9	
Shale		9' 0"	697' 0"	80.9	1 May
Sandstone		10' 0"	707' 0"	90.9	
Shaly Sandstone		20' 0"			- 2 "
Shale		3' 4"	727' 0"	110.9	
Coal		0' 4"	730' 4"	114.5	
Shaly Sandstone		16' 4"	747' 0"	130.9	
Sandstone		10' 0"			
Shale		3' 0"	757' 0"	140.9	
Coal		1' 6"	760' 6"	143.9	
Shale		9' 3"	762' 3"	146.0	
Coal		3' 7"	781' 10"	165.7	
Trap Rock		5' 8"	785.5	169.2	
			791.1	174.10	- 5 "



CX-121
694
M2

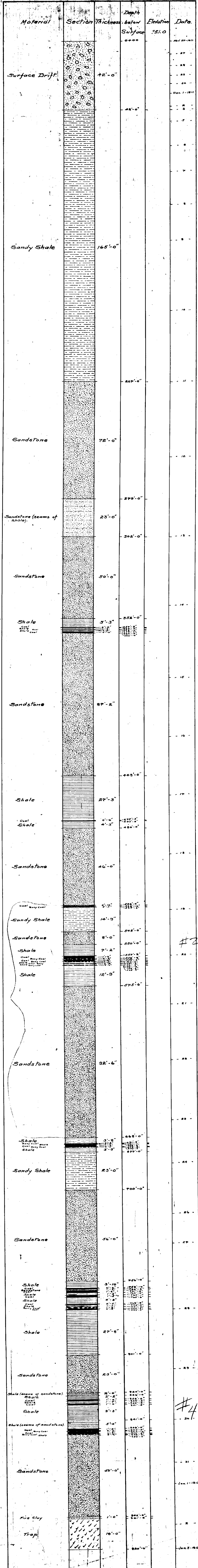
Canadian Collieries (Dunsmuir) Ltd.
PROSPECT HOLE N^o 121
Comox District
Scale 1" = 20'



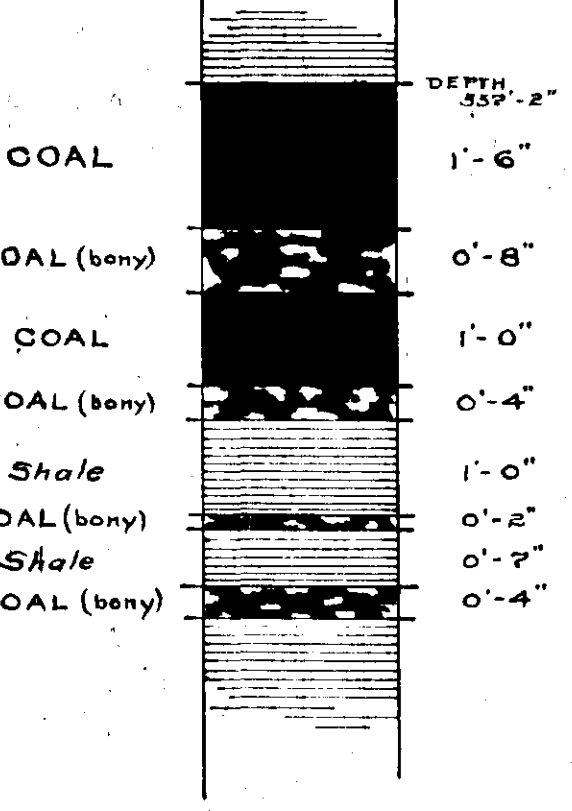
CX-122
694
M3

Canadian Collieries (Dumfries) Ltd.
PROSPECT HOLE NO. 122
Comox District

Scale 1:20



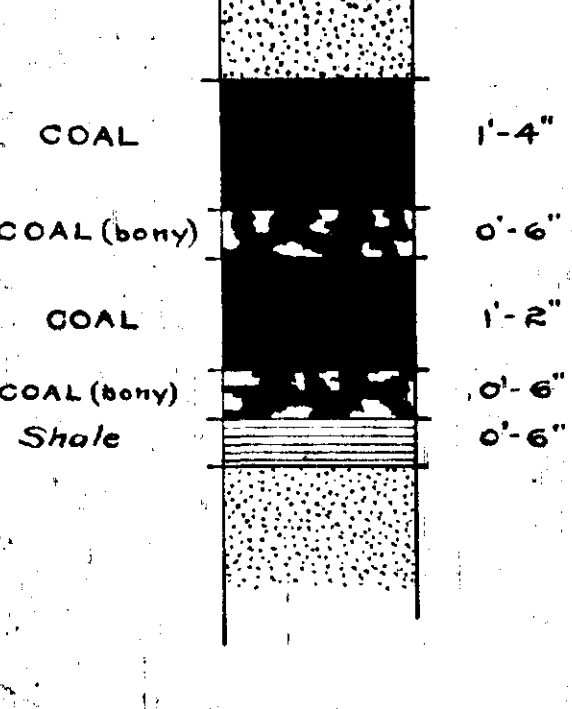
"C" SEAM



ANALYSIS - "C" SEAM

Moisture	0.5%
Volatiles Matter	22.8%
Fixed Carbon	60.7%
Ash	11.0%
Sulphur	2.3%
Caking Quality	Good

"A" SEAM



ANALYSIS - "A" SEAM

Moisture	0.7%
Volatiles Matter	22.1%
Fixed Carbon	59.1%
Ash	18.1%
Sulphur	0.68%
Caking Quality	Fair

#1 Seam

#2

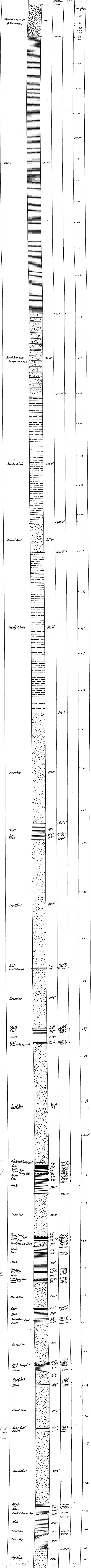
#4

122

Jan. 3-1912

CX-123
694
M4

Canadian Collieries (Dunsmuir) Ltd.
PROSPECT HOLE No 123
Comox District
Scale 1" = 20'



CX-124

694

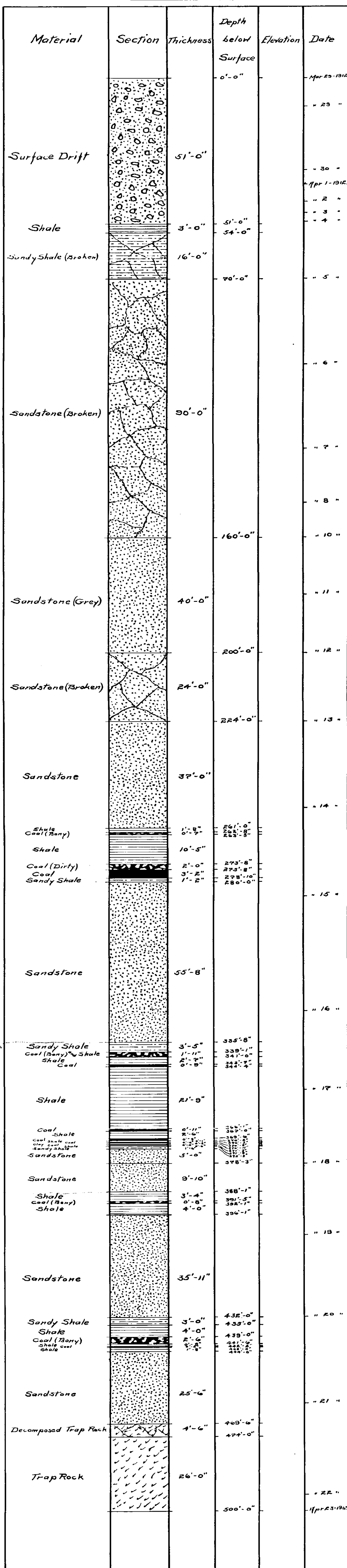
M5

Canadian Collieries (Dunsmuir) Ltd.

PROSPECT HOLE NO. 124

Comox District

SCALE 1 IN. = 20 FT.



#1 Seam

#2 Seam

CX-125
 694
 (M6)

Canadian Collieries (Dunsmuir) Ltd.
 PROSPECT HOLE N^o 125
 Comox District
 Scale 1" = 20'

Material	Section	Thickness	Depth below Surface	Elevation	Date
Surface Drift		10'-0"	0'-0"		May 1-1912
			10'-0"		May 1-1912
					" 2 "
					" 3 "
					" 4 "
Sandstone		85'-0"			" 5 "
					" 6 "
Shale		1'-5"	148'-6"		
					" 7 "
Sandstone		52'-5"			" 8 "
					" 9 "
Shale		3'-6"	148'-6"		
					" 10 "
Sandstone		65'-1"			" 11 "
					" 12 "
Shale		23'-4"	220'-4"		
					" 13 "
Coal (Bony)		1'-0"	242'-8"		
Shale (Broken)		1'-0"	243'-8"		
Shale		1'-0"	244'-8"		
Coal		1'-0"	245'-8"		
Shale		1'-0"	246'-8"		
Sandy Shale		2'-7"	258'-0"		
					" 14 "
Sandstone		54'-2"			" 15 "
					" 16 "
Sandy Shale		1'-0"	306'-2"		
Coal		6'-0"	307'-2"		
Shale (Broken)		6'-0"	313'-2"		
Coal		1'-0"	314'-2"		
Shale		20'-1"			" 17 "
					" 18 "
Coal shale		1'-0"	334'-0"		
Coal shale		1'-0"	335'-0"		
Coal (Bony) shale		1'-0"	336'-0"		
Shale		2'-6"	337'-0"		
					" 19 "
Sandstone		11'-0"	344'-0"		
					" 20 "
Shale		1'-0"	355'-0"		
Shale and Coal		2'-0"	356'-0"		
					" 21 "
Trap Rock		30'-0"			" 22 "
					May 16-1912
			389'-0"		

CX-126

694

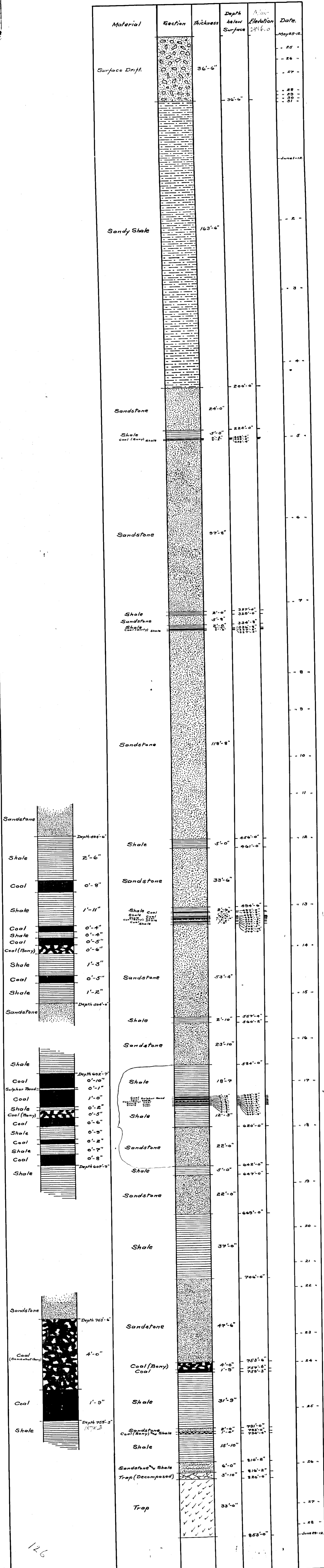
(M7)

Canadian Collieries (Dunsmuir) Ltd.

PROSPECT HOLE N° 126

Comox District

Scale 1"=20'



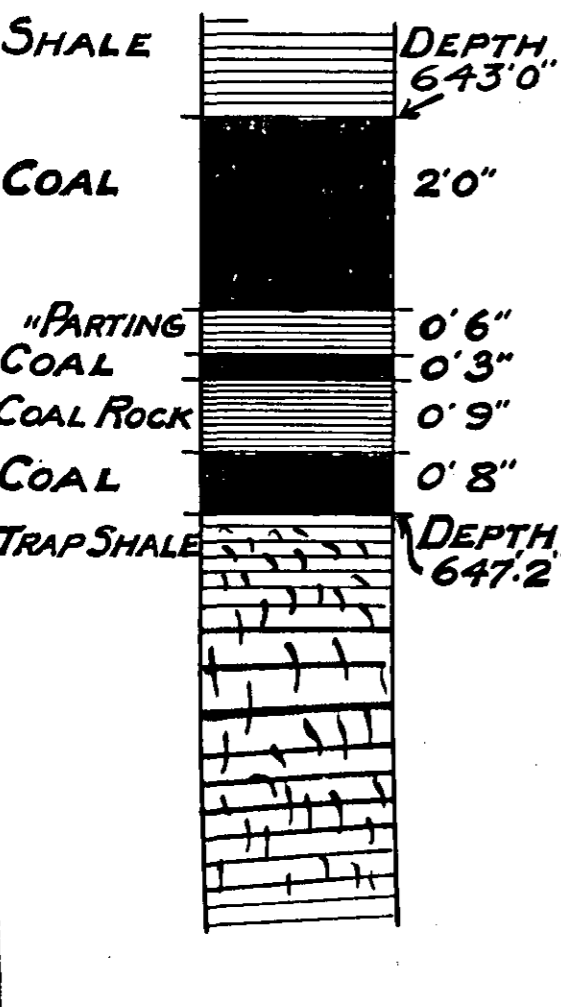
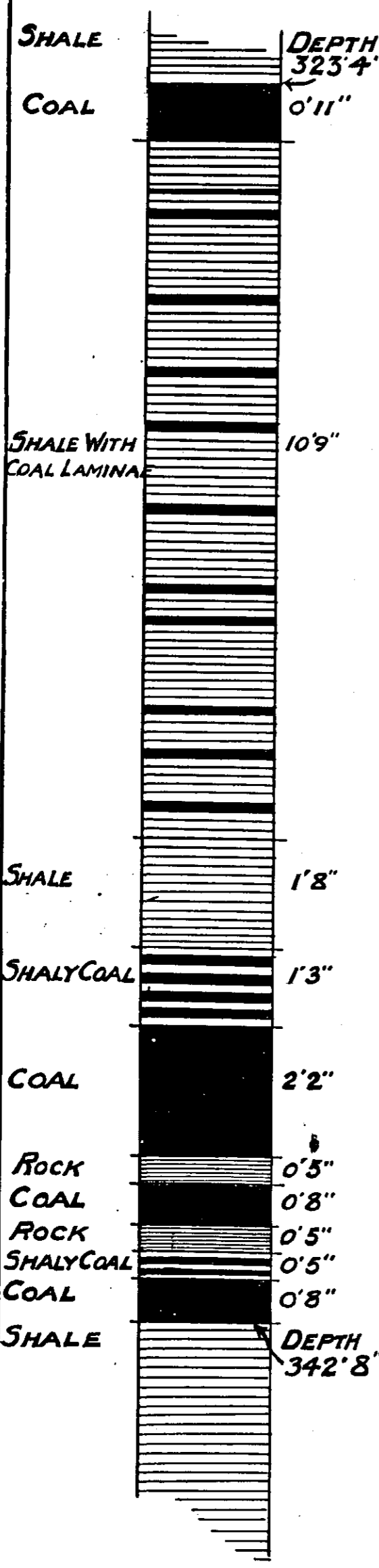
126

PROSPECT HOLE N°128

COMOX DISTRICT.

Scale 1" = 20'

MATERIAL	SECTION	THICKNESS	ELEVATION		DATE
			DEPTH BELOW SURFACE	TIDON	
Surface Drift				2409.8	1914
Coarse Gravel.		10.0"	10.0"	2399.8	June 2nd
Hard Pan		4.0"	14.0"	2395.8	" 5
Coarse Gravel.		4.0"	18.0"	2391.8	" 6
Hard Pan		3.0"	21.0"	2388.8	" 8
Large Boulders.		4.0"	25.0"	2384.8	9
Coarse Gravel.		2.0"	27.0"	2382.8	10
Boulders.		3.0"	30.0"	2379.8	11
Coarse Gravel.		2.0"	32.0"	2377.8	12
Hard Pan		5.0"	37.0"	2372.8	14
Coarse Gravel.		2.0"	39.0"	2370.8	15
Coarse Gravel.		8.10"	39.10"	2370.0	17
Sandstone					
Shale		62.2"	102.0"	2307.8	" 20
Coal		6.1"	108.1"	2301.7	
Shale		3.0"	111.1"	2301.1	
Coal		1.0"	112.1"	2298.1	
Shale				2297.3	
Sandstone					
Shale		59.6"	172.0"	2237.8	
Sandstone		8.0"	180.0"	2229.8	" 22
Coal		15.0"	195.0"	2214.8	
Shale		1.8"	196.8"	2214.0	
Sandstone		4.8"	201.6"	2209.3	" 23
Shale		10.6"	212.2"	2198.8	
Coal		6.0"	218.2"	2192.8	" 24
Shale		1.0"	219.2"	2192.0	
Sandstone					" 25
					" 26
					" 27
Sandstone (Hard)		65.2"	285.0"	2186.8	" 28
Sandstone		22.0"	307.0"	2104.8	
Coal		7.2"	314.2"	2097.8	
Shale				2096.5	
Coal		10.0"	324.2"	2086.8	" 29
Shale with Coal		10.9"	335.1"	2076.9	
Shale		1.8"	336.9"	2073.2	
Shaly Coal		1.3"	338.2"	2072.0	
Coal		2.2"	340.4"	2069.8	
Rock		0.5"	340.9"	2069.4	
Coal		0.8"	341.7"	2068.7	
Rock		0.5"	342.2"	2068.2	
Shaly Coal		0.5"	342.7"	2067.7	
Coal		0.8"	343.5"	2066.9	
Shale		5.6"	349.1"	2061.7	
Sandstone		10.0"	359.1"	2051.7	" 30
Sandstone					
Coal		29.10"	388.0"	2021.8	
Shaly Sandstone		7.0"	395.0"	2020.8	
Shale		15.2"	410.2"	2005.5	July 2
Shaly Sandstone		18.0"	428.2"	1987.5	
Shale		14.10"	442.3"	1972.6	" 3
Sandstone					
Shale		69.0"	511.3"	1903.6	
Coal		12.11"	523.4"	1890.7	
Shale		1.3"	524.7"	1889.5	
Coal		1.3"	526.0"	1888.3	
Coal		1.1"	527.1"	1887.2	
Sandstone					" 5
Shale		73.6"	599.7"	1843.7	
Sandstone		2.4"	602.1"	1841.4	" 6
Sandstone					
Shale		41.8"	643.9"	1799.7	" 7
Shale					" 8
Coal Parting		33.0"	676.9"	1766.7	
Coal		2.0"	678.9"	1764.7	
Coal rock		2.0"	680.9"	1762.7	
Coal		2.0"	682.9"	1760.7	
Trap shale		6.10"	689.0"	1755.8	
Dwyka Shale		10.0"	699.0"	1745.8	" 9



PROSPECT HOLE No 129.

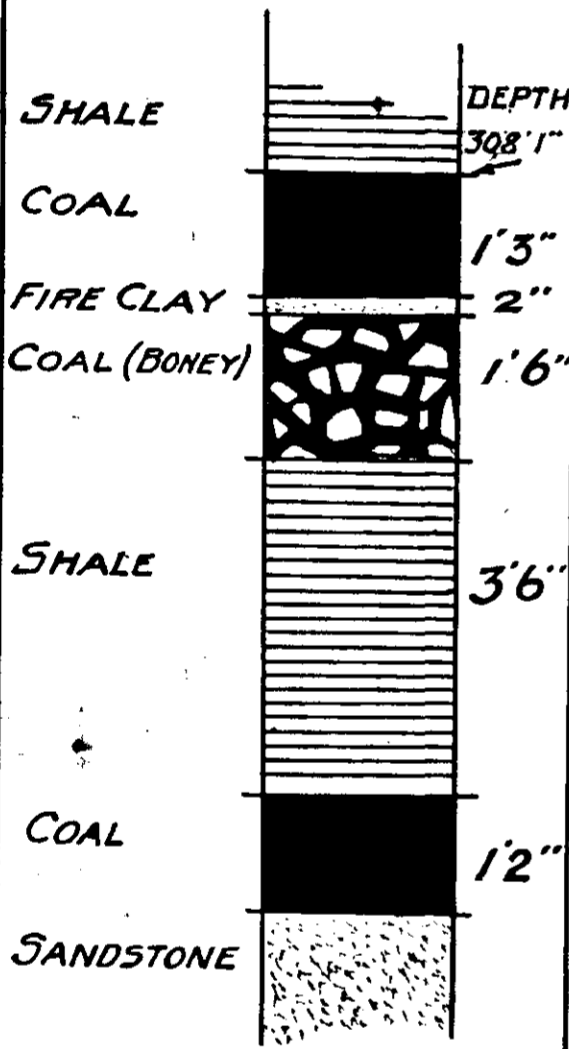
694

COMOX DISTRICT.

- Scale 1" = 20' -

(m9)

MATERIAL	SECTION	THICK- NESS	DEPTH BELOW SURFACE	ELEVA- TION	DATE
Surface Drift.		5'0"	5'0"	2372.6	-1914-
				2372.6	15 July
					19 "
Sandstone					20 "
Shale Coal.		75'0" 4'9" 3'	80.0 84.9 85.0	2297.5 2292.7 2292.3	
					21 "
Sandstone.					22 "
					23 "
Shale Coal		200'6" 50"	285.6 290.6 291.1	2092.0 2087.0 2086.4	
Shale.					
Coal (Upper Seam) Fire Clay Coal (boney) Shale Coal		1'0" 1'0" 3'6" 1'2"	308.1" 309.1" 314.6" 315.8"	2062.4 2061.2 2066.0 2063.0 2061.8	24 "
Shale		3'6"			
Sandstone.					25 "
Coal		1'2"			
SANDSTONE					
Shale.		56'4"	372.0"	2005.5	26 "
		4'0"	413.0	1964.5	
Sandstone.					27 "
		126'0"	539.0"	1838.6	
Shale.					
Sandstone (Shaly)		9'0"	548.0"	1829.5	29 "
		14'	562.0	1815.5	
Shale.					
					30 "
Coal Shale		37'6" 4'6"	599.6 604.0	1778.0 1773.5	
		10'0"	614.0	1763.5	31 "



Sec. 9, Twp. 9, Comox D.

CANADIAN COLLIERIES (DUNSMUIR) LTD.

PROSPECT HOLE No. 130

COMOX DISTRICT.

SCALE 1" = 20'

MATERIAL	SECTION	THICK- NESS	DEPTH BELOW SURFACE	ELEVA- TION	DATE
Surface Drift		5'	5'	2408.1'	1914.
Compressed Clay				2408.1'	4 AUG.
Coarse Gravel		15.0"	15.0"	2388.1'	10 "
		3.11"	18.11"	2384.2'	11 "
					13 "
Sandstone					
					14 "
Shale		58.9"	82.8"	2325.5'	
		15.6"	98.4"	2312.0'	
Sandstone					15 "
Shaly Sandstone		64.0"	162.2"	2241.0'	
		8.0"	170.2"	2240.0'	
Sandstone					16 "
Shale		54.0"	222.2"	2186.0'	
		2.0"	224.2"	2184.0'	
Sandstone					17 "
Shale		66.8"	290.10"	2117.3'	18 "
Coal		15.0"	309.10"	2098.5'	
		1.0"	310.10"	2097.5'	
Shale		10.11"	321.9"	2086.4'	
		6"	327.9"	2080.4'	
Shale		8.7"	330.10"	2077.5'	
Coal		1.8"	331.4"	2076.8'	
Shale		1.8"	333.0"	2075.1'	19 "
Sandstone					
Shale		41.0"	377.9"	2031.1'	20 "
Shale					21 "
		40.0"	417.9"	1991.1'	
Sandstone					22 "
Shale		75.0"	496.0"	1912.1'	
Coal		5.0"	501.0"	1907.1'	23 "
		8"	501.8"	1906.3'	
Shale		16.7"	518.0"	1890.1'	24 "

NOTE

LOWER SEAM NOT REACHED. THE BORE HAD TO BE LEFT UNCOMPLETED OWING TO CAVING IN FROM SIDES.

CANADIAN COLLIERIES (DUNSMUIR) LTD

BORE HOLE No. 1

COMOX FIELD

Scale: 1" = 20'

CX-1
694

(MI)

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV ABOVE H.M.M. AT UNION DAY 1887	DATE
Surface		3' 7"	3' 7"	2485.1	Sep 3 rd 1888
Sandstone		78' 11"			
Shale		3' 11"	82' 6" 86' 5"	2406.8 2402.3	
Sandstone		42' 5"			
Shale		10' 7"	128' 10"	2359.9	
Coal		2' 2"	133' 5"	2349.3	
Shale		4' 4"	141' 7"	2347.1	
Coal		0' 0"	145' 11"	2342.8	
Shale		0' 0"	147' 3"	2341.4	
Coal		0' 0"			
Sandstone		82' 0"			
Coal & Shale		7' 0"	229' 3"	2259.5	
Shale		7' 0"	236' 3"	2252.4	
Coal		0' 0"	243' 3"	2245.4	
Shale		3' 0"	243' 3"	2245.0	
Coal		1' 0"	246' 3"	2242.0	
Shale		2' 0"	247' 3"	2241.0	
Shale		0' 0"	249' 3"	2239.0	
Sandstone		48' 0"			
Shale		0' 6"	297' 3"	2191.0	
Sandstone		0' 4"			
Shale		0' 4"			
Coal		0' 2"			
Shale		0' 10"	307' 5"	2181.2	
Coal		6' 9"	309' 4"	2179.3	
Shale		1' 4"			
Shale		12' 0"			
Coal		0' 11"	321' 4"	2167.3	
Shale		0' 0"	322' 3"	2166.5	
Coal & Shale		4' 0"	326' 3"	2162.5	
Coal & Shale		1' 4"	327' 7"	2161.1	
Sandstone		23' 0"			
Coal		1' 0"	350' 7"	2138.1	
Shale		2' 0"	352' 7"	2137.1	
Shale		0' 0"	353' 7"	2135.1	
Sandstone		26' 0"			
Shale		3' 0"	379' 7"	2109.1	
Shale		0' 0"	382' 7"	2106.1	
Sandstone		14' 10"			
Shale		1' 2"	397' 4"	2081.3	
Coal		0' 6"	398' 4"	2080.7	
Shale		4' 0"	403' 1"	2085.0	
Shale		0' 0"			
Conglomerate (Probably Trap)		113' 10"			
			516' 11"	1971.8	Oct 5 th 1923

CANADIAN COLLIERIES (D) L^{TD}
BORE HOLE N^o 2
COMOX FIELD
Scale: 1" = 20'

CX-2
694

M2

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV ABOVE H.W.M. AT UNION BAR.	DATE
Surface		10' 0"	10' 0"		Oct. 10/1119
Sandstone		71' 6"			
Shale Coal Shale		2' 2" - 8"	81' 6" 83' 8" 84' 8"		
Sandstone		37' 0"		121' 8"	
Shale		3' 0"	130' 8"		
Sandstone		84' 6"			
Shale		12' 0"	215' 2" 227' 2"		
Sandstone		56' 0"			
Shale		5' 4"	283' 2"		
Sandstone Pies		2' 0"	285' 6"		
Shale		4' 0"	290' 6"		
Sandstone Pies		2' 0"	292' 6"		
Shale		12' 6"			
Coal		1' 4"	309' 0" 310' 4"		
Shale		5' 6"			
Coal		1' 0"	315' 10"		
Coal		2' 10"			
Shale		3' 0"	322' 4"		
Coal		8"			
Shale		10"			
Sandstone		36' 0"			
Shale		2' 6"	358' 4"		
Coal		7' 8"	360' 10"		
Shale		6' 4"	368' 4"		
Sandstone		48' 0"			
Shale		13' 0"	416' 4" 429' 4"		
Sandstone		59' 0"			
Shale		8' 9"	488' 4"		
Coal		2' 9"	497' 1"		
Shale		1' 8"	499' 10"		
Coal		1' 8"	503' 8"		
Shale		1' 4"	511' 8"		
Coal		8"			
Boney Coal		8' 0"			
Shale		4' 0"	515' 8"		
Conglomerate		18' 0"			
			533' 8"		Nov. 5. 1929

CANADIAN COLLIERIES (D) LTD
BORE HOLE N° 3
COMOX FIELD
Scale: 1"=20'

CX-3
694
 (M3)

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV ABOVE H.W.M. AT UNION BAY SURFACE 565.0 (Approx)	DATE
Surface		11' 0"	11' 0"	2554.0	Nov. 13, 1883
Sandstone		11' 0"	22' 0"	2543.0	
Coal Shale		2' 6"	23' 0"	2542.0	
Sandstone		59' 0"			
Shale		10' 0"	82' 0"	2483.0	
			92' 0"	2473.0	
Sandstone		108' 0"			
Shale		4' 6"	200' 0"	2365.0	
Coal & Shale		1' 6"	204' 6"	2360.5	
Shale		1' 6"	207' 0"	2357.0	
Coal & Shale		6' 0"	213' 0"	2352.0	
Sandstone		10' 0"	223' 0"	2342.0	
Shale		14' 0"			
Coal		1' 6"	237' 0"	2328.0	
Shale		2' 6"	238' 6"	2326.5	
Coal		4' 6"	243' 0"	2322.0	
Boney Coal		1' 0"	245' 0"	2320.0	
Coal		1' 0"			
Shale		10' 0"	255' 0"	2310.0	
Sandstone		16' 0"			
Shale		6' 0"	271' 0"	2294.0	
Sandstone		8' 0"	277' 0"	2289.0	
Shale		5' 0"	285' 0"	2280.0	
			290' 0"	2275.0	
Sandstone		34' 0"			
Shale		33' 0"	324' 0"	2241.0	
Coal		10'	357' 0"	2207.0	
Boney Coal		2'	358' 8"	2206.3	
Coal		8'			
Shale		7' 0"	365' 8"	2199.3	
Sandstone		59' 0"			
Shale		8' 0"	424' 8"	2140.3	
Sandstone		12' 0"	432' 8"	2132.3	
Shale		27' 8"	444' 8"	2120.3	
Coal		8"	472' 4"	2092.6	
Boney Coal		2"	474' 0"	2090.9	
Coal		102"			
Shale		6' 0"	480' 0"	2084.3	
Coal		1' 10"	481' 10"	2083.7	
Shale		4' 4"	484' 4"	2080.6	
Coal		2' 6"	484' 10"	2080.7	
Shale		13' 0"			
Coal		6' 4"	497' 10"	2067.1	
Coal & Shale		4' 0"	504' 2"	2060.8	
Coal		2' 8"	508' 2"	2056.8	
Shale		1' 4"	510' 10"	2054.1	
Shale			512' 2"	2052.8	
Conglomerate		16' 0"			
			528' 2"	2036.8	Dec. 7, 1883

CANADIAN COLLIERIES (D) LTD
BORE HOLE N° 4
COMOX FIELD
Scale: 1" = 20'

CX-4
694
 (M4)

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV ABOVE H.M.M. AT UNION BANG 600' 0" APPROX	DATE
Surface		2' 6"	2' 6"	2597.5	Dec. 4, 1899
Sandstone		35' 0"			
Coal Shale		6' 6"	37' 6" 38' 6"	2562.5 2561.5	
Sandstone		66' 0"			
Shale Coal Shale Coal Shale Coal Shale		4' 2' 3' 2' 2' 2' 2'	104' 6" 106' 0" 108' 2" 108' 6" 115' 2" 115' 6"	2495.5 2495.0 2491.8 2491.5 2484.8 2484.5	
Sandstone		75' 0"			
Shale		11' 0"	190' 6" 201' 6"	2409.5 2397.5	
Sandstone		78' 0"			
Coal Shale Coal		1' 4" 2' 0" 1' 0"	279' 6" 280' 0" 285' 0" 285' 6"	2320.5 2319.5 2317.5 2316.5	
Shale		20' 8"			
Coal		2' 0"	304' 6" 306' 6"	2295.5 2293.5	
Shale		17' 0"			
Sandstone		16' 0"	323' 6"	2276.5	
Shale		4' 0"	339' 6" 343' 6"	2260.5 2256.5	
Sandstone		43' 0"			
Coal Shale Sandstone		6' 5' 0" 7' 6"	386' 6" 387' 0" 392' 0" 399' 6"	2213.5 2213.0 2208.0 2200.5	
Shale		20' 0"			
Sandstone		68' 0"	419' 6"	2180.5	
Shale		13' 6"	487' 6"	2112.5	
Coal Coal & Shale Coal Shale Coal		6' 8' 6" 6' 1' 4"	507' 0" 507' 6" 516' 0" 516' 6" 517' 0" 518' 4"	2093.0 2092.5 2084.0 2083.5 2083.0 2081.7	
Shale		23' 6"			
Coal Shale		1' 0" 11' 0"	541' 10" 542' 10"	2057.5 2057.2	
Conglomerate		2' 6"	553' 10" 556' 4"	2046.2 2043.7	Jan. 8, 1890

CANADIAN COLLIERIES (D) LTD
BORE HOLE N^o 5
COMOX FIELD
Scale: - 1" = 20'

CX-5
694
 MS

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV ABOVE H.W.M. AT UNION BAY 605.0 (Approx)	DATE
Surface		7' 0"	7' 0"	2598.0	Feb. 10. 1890.
Sandstone		70' 0"			
Coal		1' 0"	77' 0"	2528.0	
Shale		3"	79' 6"	2525.5	
Coal		7' 6"	87' 0"	2518.0	
Shale					
Sandstone		14' 0"			
			101' 0"	2504.0	
Shale		23' 0"			
			124' 0"	2481.0	
Coal		8"	125' 4"	2479.7	
Shale		6"	130' 0"	2475.0	
Coal		4' 8"			
Sandstone		36' 0"			
			226' 0"	2379.0	
Shale		10' 0"			
			236' 0"	2369.0	
Coal		1' 0"	237' 0"	2368.0	
Shale		4' 0"	241' 0"	2364.0	
Sandstone		5' 0"	246' 0"	2359.0	
Shale		2' 0"	248' 0"	2357.0	
Sandstone		57' 0"			
			305' 0"	2300.0	
Shale		40' 0"			
			345' 0"	2260.0	
Sandstone		12' 0"			
			357' 0"	2248.0	
Shale		6' 0"			
			363' 0"	2242.0	
Sandstone		10' 0"			
			373' 0"	2232.0	
Coal		1' 4"	374' 4"	2230.7	
Shale		8"	375' 0"	2230.0	
Coal		3"	375' 3"	2229.8	
Shale		17' 9"			
			393' 0"	2212.0	
Conglomerate		8' 0"			
			401' 0"	2204.0	Feb. 27. 1890.

CANADIAN COLLIERIES (D) LTD
BORE HOLE N° 8 D
COMOX FIELD
 Scale: 1" = 20'

CX-8D

694

M6

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV ABOVE H. W. M. AT UNION BAY 433.0'	DATE
Surface Drift		50' 0"			
			50' 0"	383.0	
Sandstone		47' 10"			
Shale 1' 0" Coal .6" Co. & Sh. 6"		2' 0"	97' 10" 99' 10"	335.2 332.2	
Shale		22' 2"			
Coal 1' 0" Shale .7" Coal .4" Shale 2" Coal 3"	Sandstone Shale	3' 0" 1' 6" 2' 10"	122' 0" 125' 0" 126' 6" 129' 4"	311.0 308.0 306.5 303.7	
	Sandstone Shale Sandstone	5' 0" 1' 0" 1' 6"	134' 4" 135' 4" 136' 10"	298.7 297.7 296.2	
	Shale	11' 0"			
			147' 10"	285.2	
	Sandstone	15' 8"			
Shale 6" Coal 6"		1' 0"	163' 6" 164' 6"	269.5 268.5	
Coal 10" Shale 6"	Sandstone	4' 6"	169' 0" 170' 4"	264.0 262.7	
	Sandstone Shale Sandstone Shale	1' 4" 4' 4" 1' 0" 1' 3" 1' 3"	174' 8" 178' 8" 179' 8" 179' 8"	258.3 257.3 254.7	
Shale 3" Coal 2' 10" Shale 1' 8" Coal 6" Coal 7" Coal 1' 5"	Sandstone	6' 0"	184' 3"	248.7	
	Shale	7' 7"	191' 10"	241.2	
	Trop.	2' 0"	193' 10"	238.2	
		4' 3"	198' 1"	234.9	

CANADIAN COLLIERIES (D) LTD

CX-9D

BORE HOLE N^o 9 D

694

COMOX FIELD

Scale: 1" = 20'

M7

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV ABOVE M.H.M. AT UNION BAY	DATE
Surface Drift		33' 0"		424.0'	
			33' 0"	391.0'	
Sandstone		42' 8"			
Shale		10"	75' 8"	348.3'	
Coal		1' 2"	78' 2"	345.8'	
Sandstone plies		10' 0"			
Shale		5' 10"	88' 2"	335.8'	
Coal		1' 1"	94' 0"	330.0'	
Shale		5' 4"	95' 1"	328.9'	
Coal		2' 0"	98' 9"	325.2'	
Sandstone plies		7' 7"	100' 9"	323.2'	
Shale			108' 4"	315.7'	
Sandstone plies		58' 2"			
Coal		1' 4"	166' 6"	257.5'	
Shale		13' 2"	167' 10"	256.2'	
Sandstone plies		6' 0"	181' 0"	243.0'	
Shale		7' 6"	187' 0"	237.0'	
Sandstone plies		2' 6"	194' 6"	229.5'	
Coal		3' 9"	197' 0"	227.0'	
Shale		3' 4"	200' 9"	223.2'	
Coal			204' 1"	219.9'	
Shale					
Sandstone plies		31' 0"			
Shale		1' 0"	242' 1"	181.9'	
Coal		5"	243' 6"	180.5'	
Shale		7' 10"	251' 4"	172.7'	
Sandstone plies		11' 6"			
Shale		1' 3"	262' 10"	161.2'	
Coal		1' 0"	265' 1"	158.9'	
Shale		3' 6"	268' 11"	155.1'	
Sandstone		7' 2"	270' 9"	153.2'	
Shale		11' 7"			
Sandstone plies		11' 7"			
Shale		4' 5"	282' 4"	141.7'	
Coal		3' 9"	286' 6"	137.5'	
Shale		3' 2"	290' 3"	133.7'	
Coal		1' 2"			
Shale		1' 0"	293' 5"	130.6'	
Sandstone		6' 4"	299' 9"	124.2'	
Shale		2' 8"	302' 5"	121.6'	
Sandstone		1' 8"	304' 1"	119.9'	
Sandstone		5' 4"			
Trap		7' 7"	305' 5"	114.6'	
			312' 0"	112.0'	

CANADIAN COLLIERIES (D) LTD

BORE HOLE N° 10D

COMOX FIELD

Scale: 1"=20'

694

(MS)

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV ABOVE ANIM. AT UNION BAY 2414.0'	DATE
Surface Drift		33' 0"			
			33' 0"	2381.0'	
Sandstone		34' 2"			
			67' 2"	2346.8'	
Shale		6' 5"	73' 7"	2340.3'	
Coal		1' 6"	75' 1"	2338.7'	
Shale		4' 0"	79' 1"	2334.7'	
Sandstone		119' 3"			
Shale		4"	198' 4"	2216.7'	
Coal		1' 3"	199' 7"	2215.4'	
Shale		4' 0"	203' 7"	2211.4'	
Shale		17' 3"			
Coal 3"		3"	221' 6"	2192.5'	
Shale 6"		6"	227' 2"	2186.9'	
Coal 10"		10"	237' 2"	2176.9'	
Shale 2"		2"	239' 4"	2174.7'	
Coal 7"		7"	246' 1"	2168.0'	
Shale 233' 9"					
Coal 2"		2"	248' 0"	2166.0'	
Shale 3"		3"	251' 2"	2162.8'	
Coal 3"		3"	254' 5"	2159.5'	
Shale 1' 2"		1' 2"	255' 7"	2158.3'	
Coal 1' 2"		1' 2"	256' 9"	2157.1'	
Sandstone		46' 1"			
Shale		3' 6"	279' 3"	2134.7'	
Sandstone		1' 6"	280' 9"	2133.1'	
			284' 3"	2129.7'	
Shale		9' 9"			
			294' 0"	2120.0'	
Sandstone		33' 9"			
Shale		5' 6"	327' 9"	2086.2'	
Coal 4"		4"	333' 3"	2080.8'	
Shale 2"		2"	335' 5"	2079.6'	
Coal 6"		6"	341' 1"	2076.0'	
Shale 3"		3"	344' 4"	2074.7'	
Coal 2"		2"	346' 6"	2073.5'	
Sandstone		67' 8"			
			409' 4"	2005.7'	
Shale		25' 2"			
Shale		2' 3"	434' 6"	1979.5'	
Coal		1' 6"	436' 2"	1977.9'	
Shale		1' 8"	438' 0"	1976.3'	
Sandstone		37' 10"			
Coal & Shale		5"			
Shale 2"		2"	481' 7"	1932.4'	
Coal 2"		2"	483' 9"	1931.2'	
Shale 2"		2"	486' 1"	1929.0'	
Sandstone		22' 11"			
Shale		6' 6"	503' 5"	1904.6'	
Coal 4"		4"	507' 9"	1899.2'	
Shale 3"		3"	511' 3"	1895.8'	
Coal 3"		3"	514' 7"	1892.4'	
Shale 10"		10"	524' 7"	1882.4'	
Coal 1' 8"		1' 8"	525' 2"	1881.9'	
Coal 2"		2"	527' 4"	1879.7'	
Shale 2"		2"	529' 6"	1877.5'	
Coal 5"		5"	534' 1"	1873.0'	
Coal 2"		2"	536' 3"	1870.8'	
Shale 1' 10"		1' 10"	537' 3"	1869.8'	
Coal 2"		2"	539' 5"	1867.6'	
Shale		9' 0"			
			559' 1"	1854.0'	
Sandstone		2' 0"	561' 1"	1852.0'	
Shale		6' 0"			
			567' 1"	1846.0'	
Sandstone		2' 0"	569' 1"	1844.0'	
Shale		3' 6"	572' 7"	1841.4'	
Sandstone		17' 2"			
			589' 9"	1824.2'	
Shale		13' 5"			
Coal - 1"		1"	603' 8"	1811.0'	
Shale		4' 10"			
			608' 8"	1806.0'	
Coal - 2"		3' 2"			
Shale		5' 3"	611' 8"	1802.3'	
Coal - 1"		1"			
			617' 0"	1797.0'	
Sandstone		5"	622' 0"	1792.0'	
Trap		20' 0"			
			637' 5"	1776.5'	

CANADIAN COLLIERIES (DUNSMUIR) LTD
PROSPECT HOLE N^o 8.
COMOX FIELD

CX-8 (21)

694

(M 10)

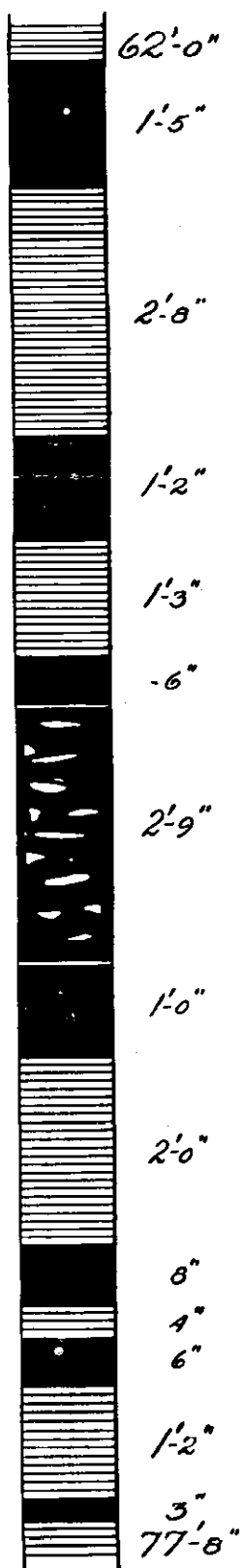
SCALE: 1"=20'

Material	Section	Thick	Depth below Surface	Elev.	Date
Surface Soil		5'-0"	5'-0"	2545.5	1890 Sept. 1.
Sandstone		51'-0"	56'-0"	2489.5	
Brown Shale		6'-0"	62'-0"	2483.5	
Coal		1'-5"	63'-5"	2482.1	
Shale		2'-8"	66'-1"	2479.4	
Coal		1'-2"	67'-3"	2478.3	" 2.
Shale		1'-3"	68'-6"	2477.0	
Coal		6"	69'-0"	2476.5	
Boney Coal		2'-9"	71'-9"	2473.7	
Coal		1'-0"	72'-9"	2472.7	
Shale		2'-0"	74'-9"	2470.7	
Coal		8"	75'-5"	2470.1	
Shale		4"	75'-9"	2469.8	
Coal		6"	76'-3"	2469.3	
Shale		1'-2"	77'-5"	2468.1	
Coal		3"	77'-8"	2467.8	
Shale		8'-4"	86'-0"	2459.5	" 3.
Sandstone		12'-0"	98'-0"	2447.5	
Shale		1'-0"	99'-0"	2446.5	
Sandstone		9'-0"	108'-0"	2437.5	
Shale		4'-0"	112'-0"	2433.5	
Sandstone		4'-0"	116'-0"	2429.5	
Shale		14'-0"	130'-0"	2415.5	
Coal		10"	130'-10"	2414.7	" 4.
Shale		4"	131'-2"	2414.3	
Coal		1'-0"	132'-2"	2413.3	
Shale		5"	132'-7"	2412.9	
Coal		3'-6"	136'-1"	2409.4	
Shaley Coal		1'-0"	137'-1"	2408.4	
Coal - Fair		1'-0"	138'-1"	2407.4	
Coal (doubtful)		2'-0"	140'-1"	2405.4	
Shale					

Deduct 2000 ft from Elev.

No 1

No 4



CANADIAN COLLIERIES (DUNSMUIR) LTD

CX-9 (21)

PROSPECT HOLE N^o 9.

COMOX FIELD

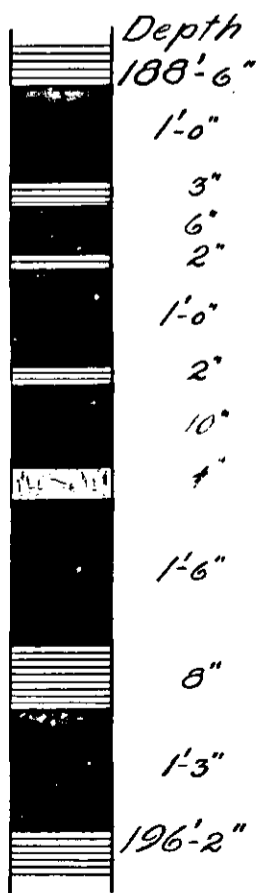
694

SCALE: 1"=20'

(MII)

Material	Section	Thick	Depth below Surface	Elev.	Date
Surface Soil		11'-6"		2499.0	1890 Sept. 11.
Sandstone		7'-0"	11'-6"	2487.5	
Brown Shale		6'-0"	18'-6"	2480.5	Sept. 12
Coal		4"	24'-6"	2474.5	
Brown Shale		10'-6"	24'-10"	2474.2	
Sandstone		2'-6"	35'-4"	2463.7	
Brown Shale		6"	38'-0"	2461.0	
			38'-6"	2460.5	
Sandstone		65'-0"			
			103'-6"	2395.5	
Brown Shale		13'-0"			
Coal		2"	116'-6"	2382.5	Sept. 15
Brown Shale		4'-10"	116'-8"	2382.3	
			121'-6"	2378.5	
Sandstone		16'-0"			
Coal		6"	137'-6"	2361.5	
Shale		1'-0"	138'-0"	2361.0	
Coal		4"	139'-0"	2360.0	
Shale		7'-2"	139'-4"	2359.7	
Sandstone		1'-0"	146'-6"	2352.5	
Shale		10'-0"	147'-6"	2351.5	
			157'-6"	2341.5	
Sandstone		15'-0"			
Shale		16'-0"	172'-6"	2326.5	
Coal		1'-0"	188'-6"	2310.5	Sept. 16
Shale		3"	188'-9"	2309.5	
Coal		6"	189'-9"	2309.2	
Shale		2"	190'-3"	2308.8	
Coal		1'-6"	190'-5"	2308.6	
Shale		1'-0"	191'-5"	2307.6	
Coal		2"	191'-7"	2307.4	
Shale		10"	192'-5"	2306.6	
Dirt		4"	192'-9"	2306.2	
Coal		1'-6"	194'-3"	2304.8	
Shale		8"	194'-11"	2304.1	
Coal		1'-3"	196'-2"	2302.8	
Shale		25'-3"	221'-5"	2277.6	Sept. 17

Depth below surface



No. 1

No. 2

41

COWIE CREEK

(22)

B.H. 7020

STATE		COMPANY	
COUNTY	FARM	WELL NO.	
BLOCK	SURVEY		
SEC.			
T.	R.	TOTAL DEPTH	
		CONTRACTOR	
		COMMENCED	
		COMPLETED	
ALTITUDE		REMARKS	
PRODUCTION			

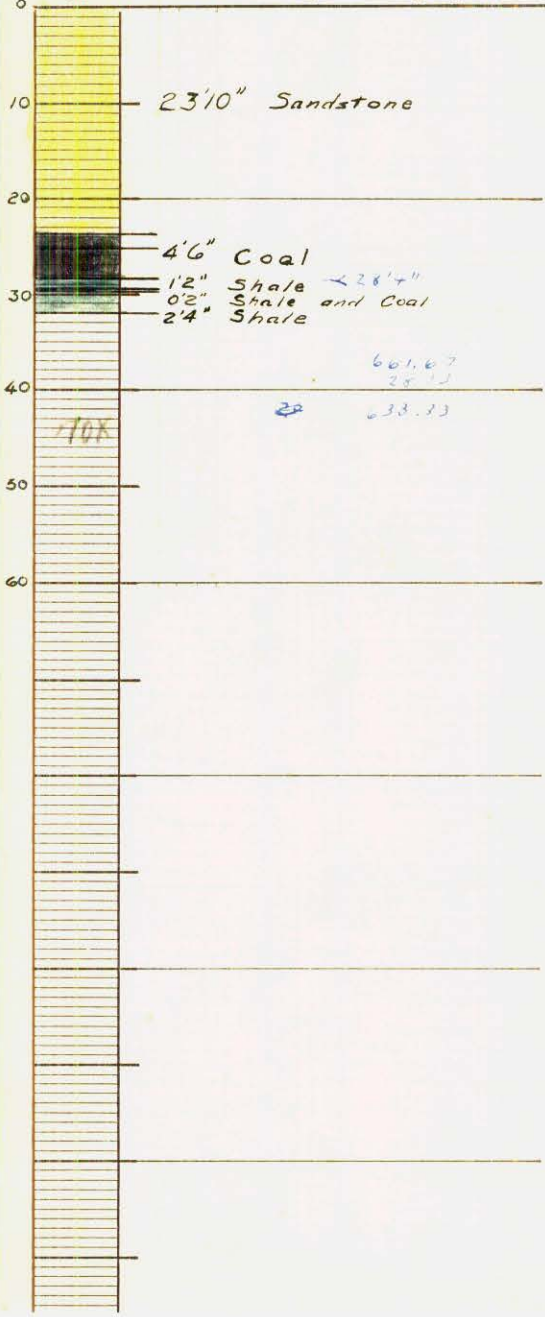
TR-7020

CASING RECORD

	10"	
	8 1/4"	
20'	6 5/8"	
15 1/2"	5 3/8"	
12 1/2"		
SHOT	QUARTS	BETWEEN

00694

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



COWIE CREEK

B.H. 66

STATE

~~Not located~~
COMPANY (LOG BY DRILLER)

COUNTY

FARM

WELL NO.

BLOCK

SURVEY

TR-66
NELSON DISTRICT

SEC.

T.

R.

193' TOTAL DEPTH

CONTRACTOR

COMMENCED

COMPLETED

REMARKS

ALTITUDE

PRODUCTION

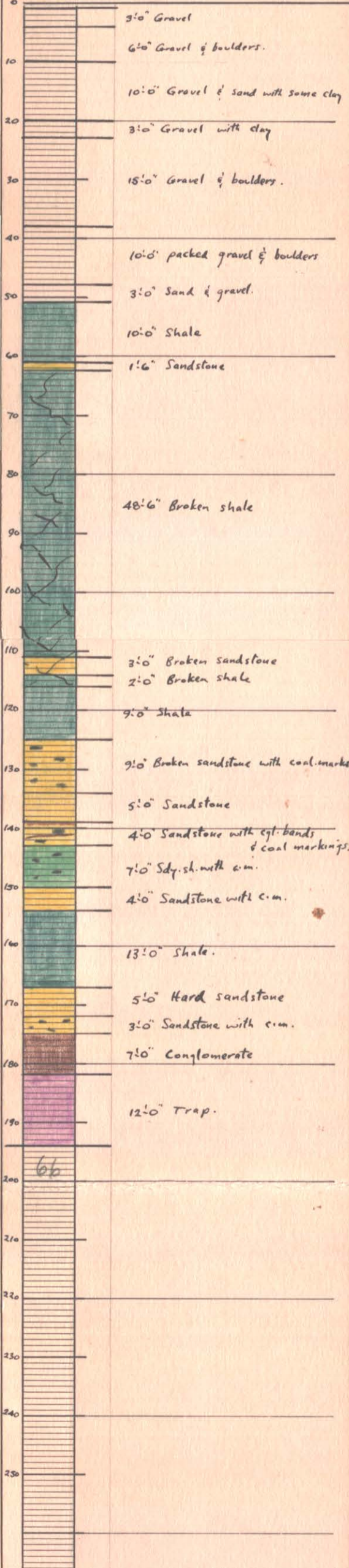
LI

CASING RECORD

	10"
	8 1/2"
2'	6 1/2"
1 1/2"	4 1/2"
12 1/2"	
SHOT	QUARTS BETWEEN

00694

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



STATE		COMPANY	WELL NO.
COUNTY		FARM	
BLOCK		SURVEY	
SEC.		NELSON DISTRICT	
T.	R.	TOTAL DEPTH	
		199' 11"	
ALTITUDE		CONTRACTOR	REMARKS
PRODUCTION		COMMENCED	
		COMPLETED	

TR-67

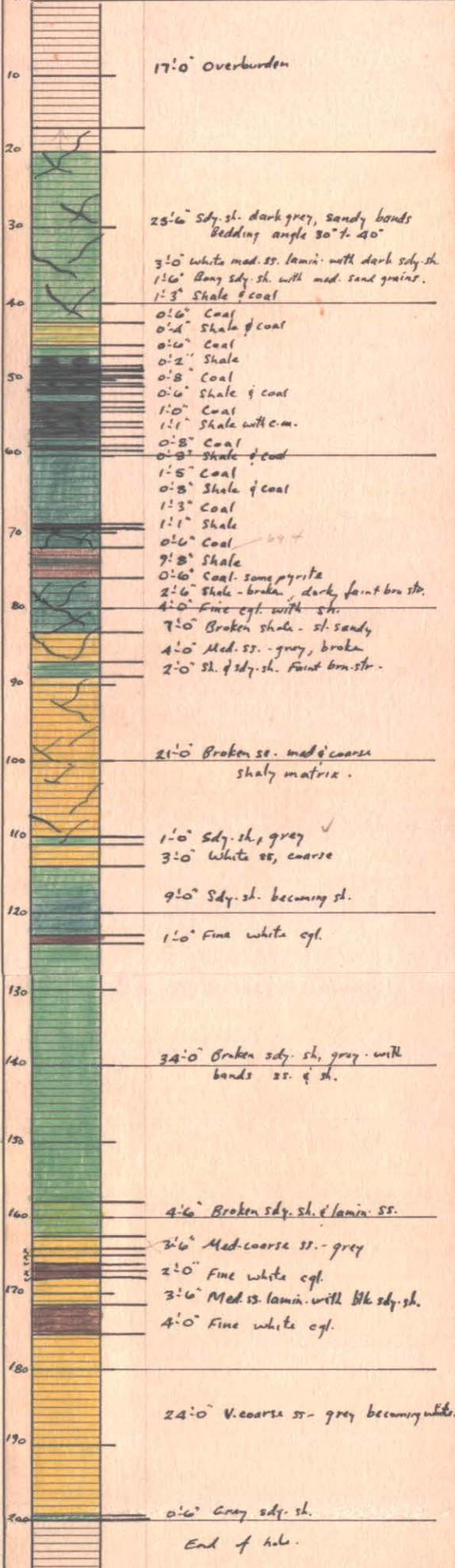
L2

CASING RECORD

10"	
8 1/4"	
6"	
5 1/8"	
SHOT	QUARTS BETWEEN

00694

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



67

ROWIE CREEK

B. N. 68

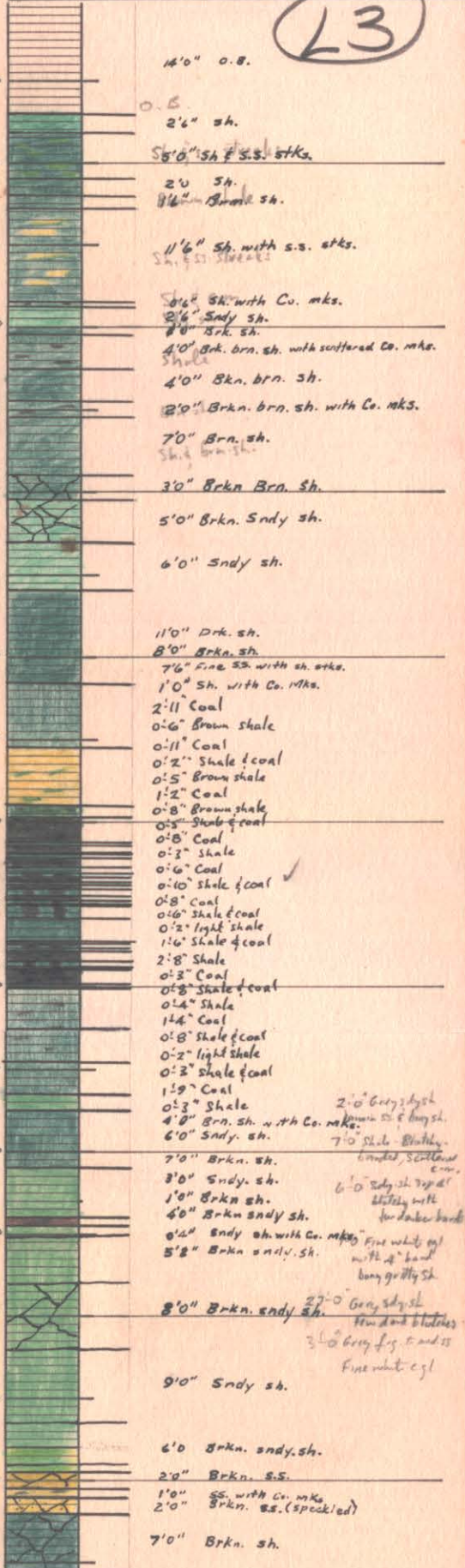
STATE		COMPANY
COUNTY	FARM	WELL NO.
BLOCK	SURVEY	
SEC.	NELSON DISTRICT	
T.	R.	TOTAL DEPTH
		185' 7"
CONTRACTOR		2006
COMMENCED		
COMPLETED		
REMARKS		
ALTITUDE		
PRODUCTION		

CASING RECORD

	10"
	8 1/4"
2	6 3/4"
1 1/2"	5 1/2"
SHOT	QUARTS BETWEEN

00694

FORM 394 - In stock and for sale by Mid-West Pctg. Co., Tulsa



COWIE CREEK

B.M. 69

STATE

COMPANY

TR-69

COUNTY

FARM

WELL NO.

BLOCK

SURVEY

NELSON DISTRICT

SEC.

T.

R.

TOTAL DEPTH

236'

CONTRACTOR

COMMENCED

COMPLETED

REMARKS

ALTITUDE

PRODUCTION

CASING RECORD

10"

8 1/4"

6 1/2"

5 1/8"

00694

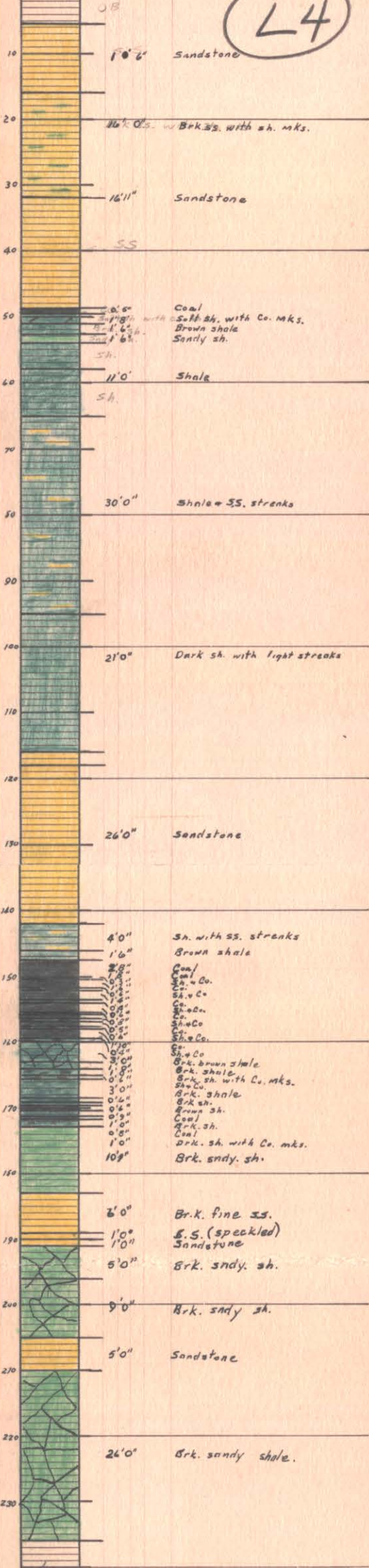
SHOT

QUARTS

BETWEEN

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa

L4



64

COWIE CREEK

B.H. # 70

STATE	B.H. # 70	
COUNTY	FARM	WELL NO.
BLOCK	TR-70	
SEC.	SURVEY	
	NELSON DISTRICT	
T.	R.	220' TOTAL DEPTH
		CONTRACTOR
		COMPLETED
		COMPLETED
		REMARKS
ALTITUDE		
616'		
PRODUCTION		

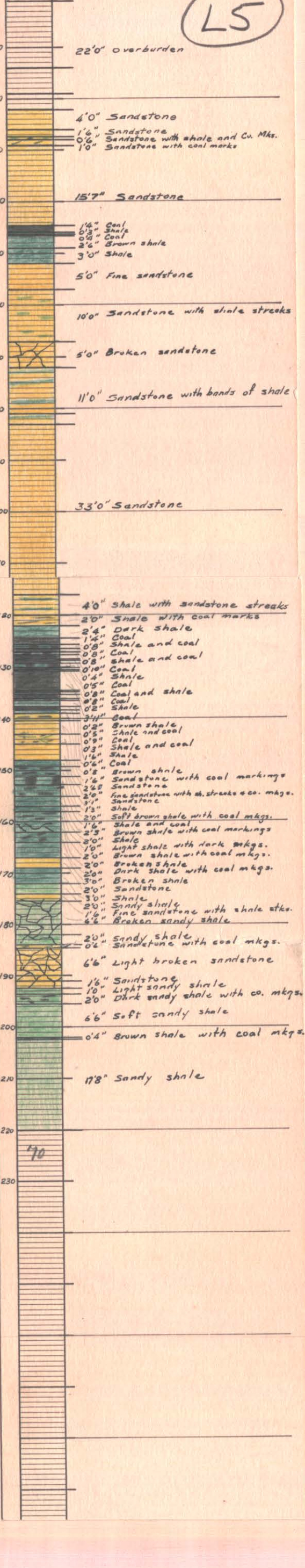
CASING RECORD

10"		
3 1/4"		
6 3/4"		
5"		
SHOT	QUARTS	BETWEEN

00694

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa

L5



Tsable River. B.H. # 74

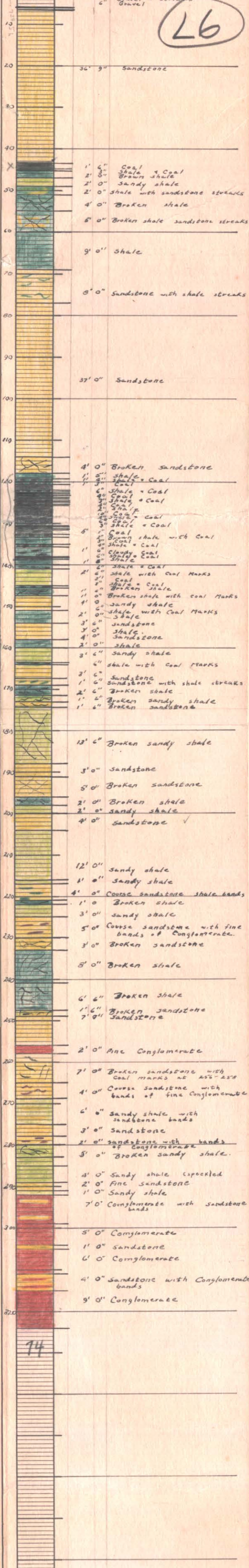
TR-74

STATE		COMPANY	Cowle Creek.
COUNTY		FARM	WELL NO.
BLOCK		SURVEY	
SEC.			
T.	R.	324' TOTAL DEPTH	
		CONTRACTOR	
		COMMENCED	
		COMPLETED	
		REMARKS	
ALTITUDE		650'	
PRODUCTION			

CASING RECORD		
		10"
		8"
20"		
15"		
12"		
SHOT	QUARTS	BETWEEN

00694

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



74

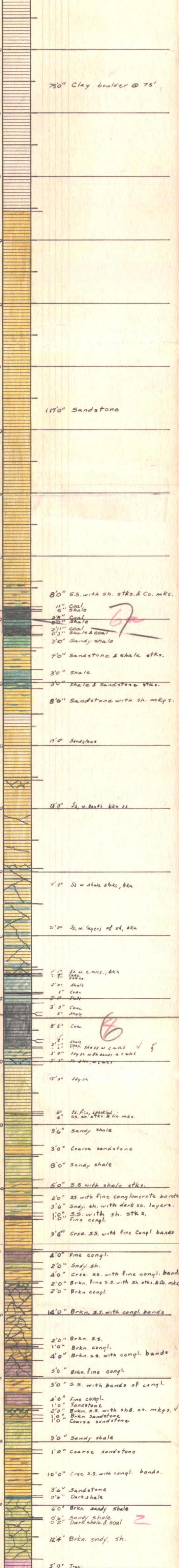
TSALE RIVER

STATE		B.H. #	77
COUNTY		COMPANY	TR-77
BLOCK		FARM	
SEC.		SURVEY	NEWCASTLE DISTRICT
T.	R.	TOTAL DEPTH	
		517'6"	
CONTRACTOR			
COMMENCED		2	
COMPLETED		?	
REMARKS			
ALTITUDE		689'	
PRODUCTION			

CASING RECORD

10"	
8 1/4"	
6 3/4"	
5 1/2"	
SHOT	QUARTS BETWEEN

FORM 394 - For sale by Ross-Martin Co., Tulsa



TSABLE RIVE 79

STATE

COMPANY

TR-79

COUNTY

FARM

WELL NO.

BLOCK

SURVEY

NEWCASTLE DISTRICT

SEC.

T.

R.

TOTAL DEPTH

340'

CONTRACTOR

COMMENCED

COMPLETED

REMARKS

ALTITUDE

709'

PRODUCTION

CASING RECORD

10"

8 1/4"

6 3/4"

5"

SHOT

QUARTS

BETWEEN

FORM 394 - For sale by Ross-Martin Co., Tulsa

7'0" Gravel & boulders

3'0" Broken sandstone

L8

90'0" Sandstone

1'6" Coal
0'10" Shale
1'7" Coal
1'11" Shale
0'7" Shale & Coal
1'6" Coal
0'3" Shale & Coal
5'10" Broken sandy shale

2'0" Broken sh. with Co. mks.
6'0" Sandy shale

4'0" S.S. with sh. streaks.

44'0" Sandstone

1'6" S.S. with sh. streaks.
3'0" Sandstone
1'6" Broken sandy sh. with Co. mks.

29'0" Broken sh. & S.S. layers.

2'0" Sandstone
2'0" Broken shale
3'1" Coal
0'5" Shale & Coal
0'6" Shale
0'9" Shale & Coal
0'4" Shale
1'3" Coal
0'8" Shale
2'4" Coal
0'6" Shale
5'7" Coal
0'7" Dark shale with Coal mks.
1'6" Brown shale
2'0" Shale
5'6" Coarse sandstone

2'0" Sandstone
4'0" Broken shale
1'6" Broken S.S. with sh. stks.
1'0" Broken fine congl.
2'6" Broken sandy shale

10'0" Sandy shale
3'0" Sandstone with sh. stks & Co. mks.
0'8" Brown sh. with Coal mks.
0'8" Dark shale
1'2" Sandy shale
2'6" Sandstone (speckled)
3'0" Sandy shale
3'0" Coarse sandstone
2'0" Sandy shale
1'0" S.S. & shale streaks.
2'0" Sandstone
2'0" Coarse sandstone
2'0" Fine conglomerate
1'0" Sandstone with shale stks.

6'0" Sandstone
2'0" Coarse S.S. with Coal mks.

14'0" Coarse S.S. with congl. bands.
5'0" Coarse sandstone

2'0" Broken sandy shale
2'0" Fine sandstone with sh. mks.
4'0" Sndy. sh. with sh. stks. ✓
3'6" Coarse sandstone
1'0" sandstone & shale

2'0" Sandy shale
2'0" Sandstone with sh. mks
2'6" Sandy shale
4'0" Broken sandstone
2'0" Sandy shale with dark stks
1'6" Fine conglomerate.
5'6" sandstone
2'0" Conglomerate

Trap

+115

312.74

79

80 TOADLE RIVER

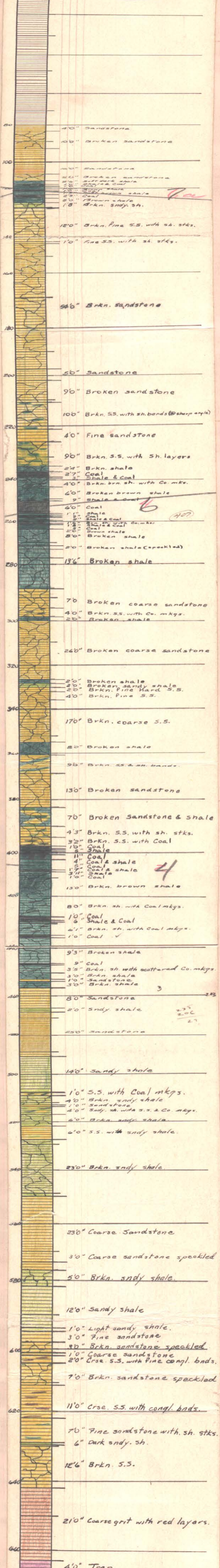
STATE		COMPANY
COUNTY	FARM	WELL NO.
BLOCK	SURVEY	
SEC.	NEWCASTLE DISTRICT.	
T.	R.	TOTAL DEPTH
		667'
		CONTRACTOR
		COMMENCED
		COMPLETED
		REMARKS
ALTITUDE		
660'		
PRODUCTION		

CASING RECORD

10"	
1/2"	
3/4"	
1"	
1 1/4"	
1 1/2"	
1 3/4"	
2"	
2 1/2"	
3"	
3 1/2"	
4"	
4 1/2"	
5"	
5 1/2"	
6"	
6 1/2"	
7"	
7 1/2"	
8"	
8 1/2"	
9"	
9 1/2"	
10"	

FORM 394 - For sale by Ross-Martin Co., Tulsa

(L9)



700

6

4

3

235
200
27

667'

42
=

694 (2)

93.

WELWOOD OF CANADA LIMITED
VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Allan Lake #1 *ALL-1*
LOCATION - ~~Tisble River Area~~ *CUMBERLAND*
ELEVATION - 650
DATE - May 1975

<u>Type of Cuttings</u>	FEET	
	FROM	TO
Sand and Gravel	0	2
Sandstone - light grey	2	25
Grey Sandstone	25	57.5
Brown and Carbonaceous Shales	57.5	60.2
Coal and Carbonaceous Shale interbedded	60.2	64.6
Brown Shale	64.6	67.2
Grey Sandstone	67.2	147.5
Grey Siltstone	147.5	152.3
Carbonaceous and Brown Shales - coal traces	152.3	156
Grey Siltstone	156	182.5
Grey Sandstone	182.5	238.5
Brown Siltstone - shaley bands	238.5	247.8
Grey Sandstone - silty bands	247.8	262.7
Brown and Carbonaceous Shales - odd coal trace	262.7	275.5
Grey Siltstone	275.5	278
Brown and Carbonaceous Shales - odd coal trace	278	280
Sandstone	280	281
Brown Shale - traces of coal	281	291
Coal	291	291.3
Siltstone	291.3	294.5
Coaly Shale	294.5	295.5
Coal	295.5	296.5
Silty Brown Shale	296.5	305
Hard Light Grey Sandstone	305	309
Siltstone	309	322
Shale - 0.1' coal @ 322.5'	322	322.8
Grey Siltstone	322.8	326
Grey Sandstone	326	366
Brown Fine Grained Siltstone	366	387
Shale and Coal	387	391.3
Brown and Silty Shale and Siltstone	391.3	401
Light Grey Sandstone	401	458
Siltstone	458	470
Grey Siltstone	470	476.5

cont'd ...

Borehole No. 1 - Allan Lake

94.

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Coal - few carbonaceous shale bands	476.5	485.2
Coal Carbonaceous Shales	485.2	493
Brown Siltstone	493	509
Grey Basalt	509	520



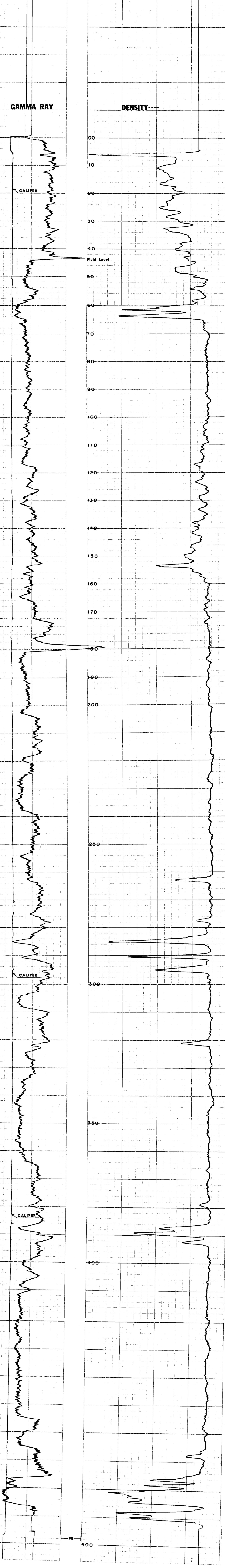
COMPANY WELDWOOD of CANADA LTD. **694**
 WELL ALLEN LAKE
 FIELD CUMBERLAND
 PROVINCE BRITISH COLUMBIA
 LOCATION
 Log Measured From: G.L. Elev. 650 ft. Elev. at 650 ft. 650 ft.
 O.A. Above From Datum: 0.00
 C.R.
 Other Services:

Date: MAY 27 75
 Run No.: ONE
 First Reading: 518 ft.
 Last Reading: 0 ft.
 Total Measured: 518 ft.
 Depth Standard: 520 ft.
 Bottom Depth: 520 ft.

Casing: 5 in.
 Mud Name: WATER
 Mud Visc:
 Mud pH:
 Mud Loss:
 Bit Size: 4 3/4 in.
 Source of Detector:
 Spacing: 1/8 in.
 Equipment Type: COMPOSITE
 Op. Log Time: 1 hr.
 Tract No.:
 Recorded by: G. STOBART
 Written by: G. GREEN

FLUID LEVEL AT 44 ft WHEN LOGGED
 CASING ROYIN 5 ft.

GAMMA RAY API UNITS		DEPTHS	BULK DENSITY P _b - g/m ³ c			
SEN. 0.86 T.C. 1 Zero div. to left				SEN. 0.86 T.C. 1		
CALIPER hole diameter in inches			1.50	1.75	2.0	2.75



PREPSONS

FORMATION DENSITY LOG

COMPANY WELDWOOD of CANADA LTD.

WELL ALLEN LAKE #1

FIELD ALL - 1

PROVINCE (CUMBERLAND)

LOCATION BRITISH COLUMBIA

DATE MAY 15/75

WELL NO. 1795

LOG MEASURED FROM 0 TO 520 FT.

LOG MEASURED FROM 0 TO 520 FT.

LOG MEASURED FROM 0 TO 520 FT.

LOG MEASURED FROM 0 TO 520 FT.

LOG MEASURED FROM 0 TO 520 FT.

FLUID LEVEL 62 FT.

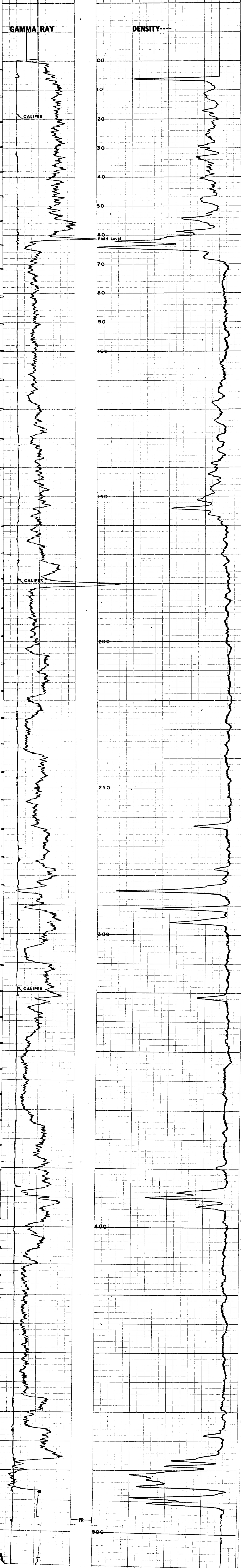
CASING DOWN 5 FT.

BULK DENSITY	
P _b - gm/cc	
SEN. 2.80	T.C. 1
1.50	1.75
2.0	2.75

GAMMA RAY	
API UNITS	
SENS. <u>D.B.O.</u>	T.C. <u>2</u>
Zero	div. to left

CALIPER	
hole diameter in inches	
4	5
6	7
8	9
10	11
12	

Scale in FPM



WELDWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Browns River #2 BR-2
 LOCATION - ~~Anderson Island Area~~ Cumberland.
 ELEVATION - 620 ? 210M.
 DATE - June 1975

Type of Cuttings	FEET	
	FROM	TO
Gravel	0	30
Brown Clay, Gravel and Boulders	30	46
Soft Sandstone	46	63
Grey Sandstone	63	78
D Coal with Shale Stringers	78	80
Carbonaceous Shale	80	81
Grey Sandstone	81	87
Grey Sandstone	87	103
Soft Sandstone	103	126
Carbonaceous Shale with Coal Traces	126	133
Siltstone	133	140
Carbonaceous Shale	140	142
Sandstone	142	192
Grey Sandstone	192	209
Black Shale	209	215
Brown Shale	215	227.5
Coal and Carbonaceous Shale	227.5	228.5
Coal	228.5	234.5
Coal	234.5	237
Grey Sandstone	237	245
Sandstone	245	274
Siltstone	274	282
Sandstone	282	290
Carbonaceous Shale	290	296
Sandstone	296	315
Carbonaceous Shale - Coal Traces →	315	337
Grey Sandstone	337	345
Grey Sandstone	345	360
Black Shale - some Coal Traces →	360	402
Green and Grey Siltstone	402	403
Basalt	403	425



10

79.

WELWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Browns River #3 **BR-3**
 LOCATION - **Cumberland**
 ELEVATION - 490
 DATE - August 1975

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Gravel	0	35
Sandstone	35	80
Shale	80	106
Carbonaceous Shale	106	108
Coal	108	109.5
Carbonaceous Shale	109.5	123
Sandstone	123	144
Carbonaceous Shale	144	146
Sandstone	146	156
Carbonaceous Shale	156	159
Sandstone	159	184
Siltstone	184	190
Coal	190	192
Carbonaceous Shale	192	194
Sandstone	194	264
Grey Shale	264	287
Coal	287	290
Grey Shale	290	293
Sandstone	293	368
Shale	368	386
Carbonaceous Shale	386	388
Coal	388	389
Carbonaceous Shale	389	410
Sandstone	410	416
Basalt	416	430

694⁽
83.

WELLDWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Brown River #1 BR-1.
LOCATION - Cumberland Area
ELEVATION - 405
DATE - June 1975

		FEET	
		FROM	TO
	Sand and Gravel	0	46
	Grey Sandstone	46	58.7
	Grey Shale	58.7	71
	Grey Sandstone	71	79
	Carbonaceous Shale	79	83.3
	Grey Shale	83.3	84.7
	Grey Sandstone	84.7	172
1	→ <u>Coal</u>	172	172.8
	Grey Sandstone	172.8	212
	Sandstone	212	239
	Shale - dark grey	239	241.5
2	→ <u>Coal</u>	241.5	245
	Shale - dark grey	245	245.3
	Sandstone - black & white	245.3	281
	Hard Grey Sandstone	281	300
	Hard Black Shale	300	309
3	→ <u>Coal and Shale</u>	309	311
	Soft Grey Shale	311	313
	Grey Sandstone - soft	313	342
	Brown Shale	342	343.5
	Sandstone - black & white	343.5	375
	Grey Sandstone	375	407
4	→ <u>Coal</u>	407	407.7
	Grey Shaley Siltstone	407.7	412
	Grey Sandstone	412	427
	Shale	427	432
5	→ <u>Coal</u>	432	436.5
	Grey Shale	436.5	443
	Grey Sandstone	443	496
	Grey Shale	496	502.8
6	→ <u>Coal</u>	502.8	503.6
	Grey Shale	503.6	506
	Grey Sandstone	506	515.8
	Grey Shale - coal traces	515.8	517
	Grey Sandstone	517	518.5

HPD

Borehole No. 1 - Browns River

FEET

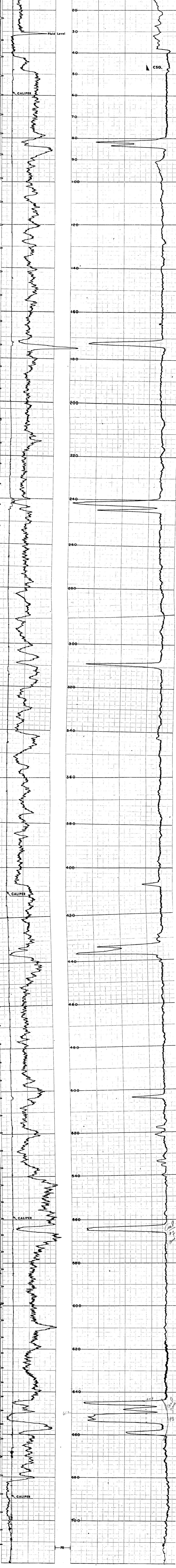
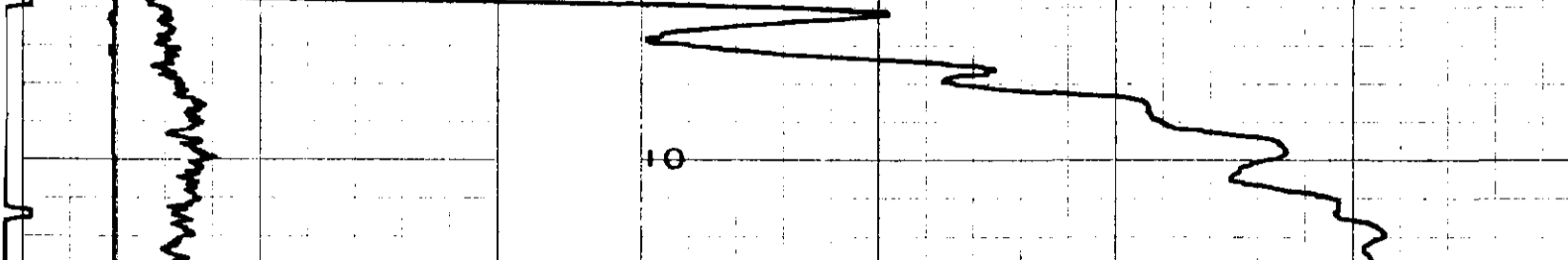
<u>Type of Cuttings</u>		<u>FROM</u>	<u>TO</u>
	Grey Sandstone	521	533
	Dark Siltstone	533	542
	Grey Sandstone	542	557
	Grey Shale	557	561
7	→ <u>Coal</u>	<u>561</u>	<u>564.2</u>
	Grey Shale	564.2	575
	Sandstone	575	607
	Soft Brown Shale	607	609
	Grey Sandstone	609	644
	Brown Shale with Coal stringers	644	650.6
8	→ <u>Coal</u>	<u>650.6</u>	<u>653.6</u>
	Brown Shale - soft	653.6	659
	Grey Shale	659	660
	Grey Sandstone	660	664
	Black Shale - hard	664	667
	Hard Sandstone - dark grey	667	681
	Grey Sandstone - soft	681	695
	Basalt	695	717



COMPANY: WEIDWOOD of CANADA Ltd.
 BR-1
 WELL: BROWNS RIVER
 CUMBERLAND
 FIELD: BROWNS RIVER (CUMBERLAND)
 PROVINCE: BRITISH COLUMBIA
 LOCATION: [Blank]
 Log Recorder: D.L.L. [Blank]
 Log Date: 11/75
 Log Time: 7:30 AM
 Log Depth: 713 ft
 Log Interval: 1 ft
 Log Type: [Blank]
 Log Scale: [Blank]
 Log Units: [Blank]
 Log Remarks: [Blank]

FLUID LEVEL 21 ft
CASING AT 48 ft

GAMMA RAY API UNITS	DEPTHS	BULK DENSITY ρ_b - gm/cc			
		1.50	1.75	2.0	2.75
SEN 2.90 T.C. 1					





FORMATION DENSITY LOG

COMPANY: WELDWOOD of CANADA LTD
 WELL: BROWNS RIVER #2 (22)
 FIELD: CUMBERLAND
 PROVINCE: BROWNS RIVER (CUMBERLAND)
 LOCATION: BRITISH COLUMBIA

DATE: JUNE 12/75
 TIME: 09:45
 LOG MEASURED FROM: GL
 LOG MEASURED TO: R Above Perm. Datum
 OTHER SERVICES:

PROVINCE: _____
 FIELD: _____
 WELL: _____
 COMPANY: _____

LOG No. _____
 Date: _____
 Time: _____

First Reading: 420 ft
 Last Reading: 420 ft
 Depth Measured: 420 ft
 Depth Reached: 425 ft
 Bottom Depth: _____

Core: _____
 Core No.: _____
 Core Log Time: _____
 Core Log Date: _____

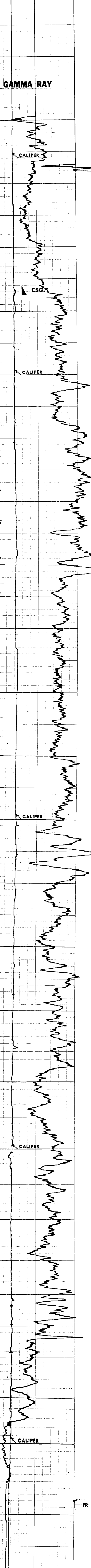
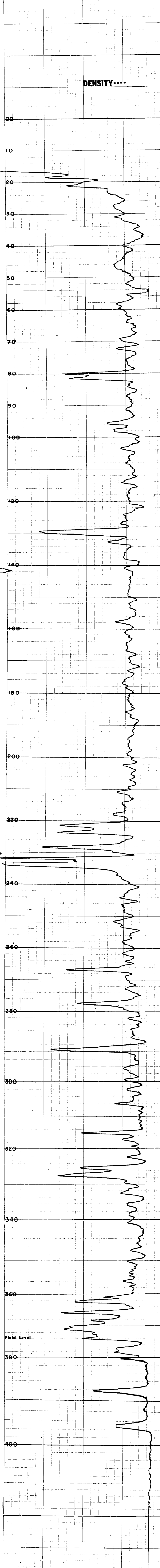
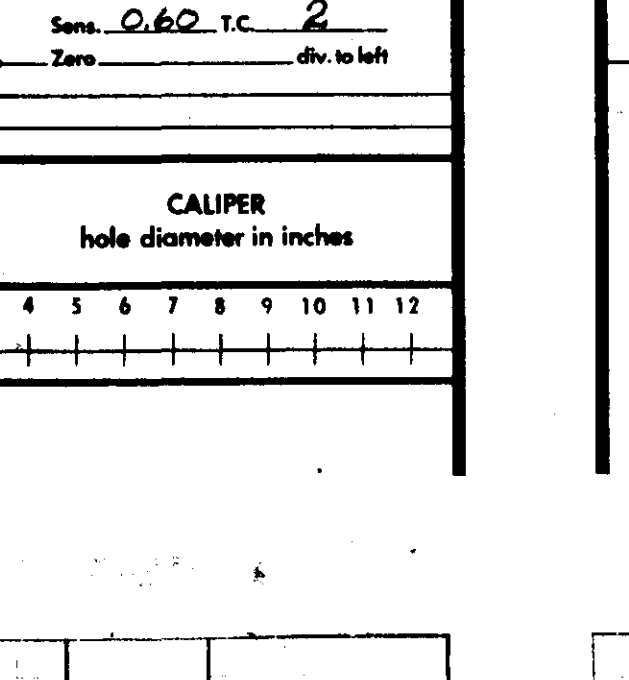
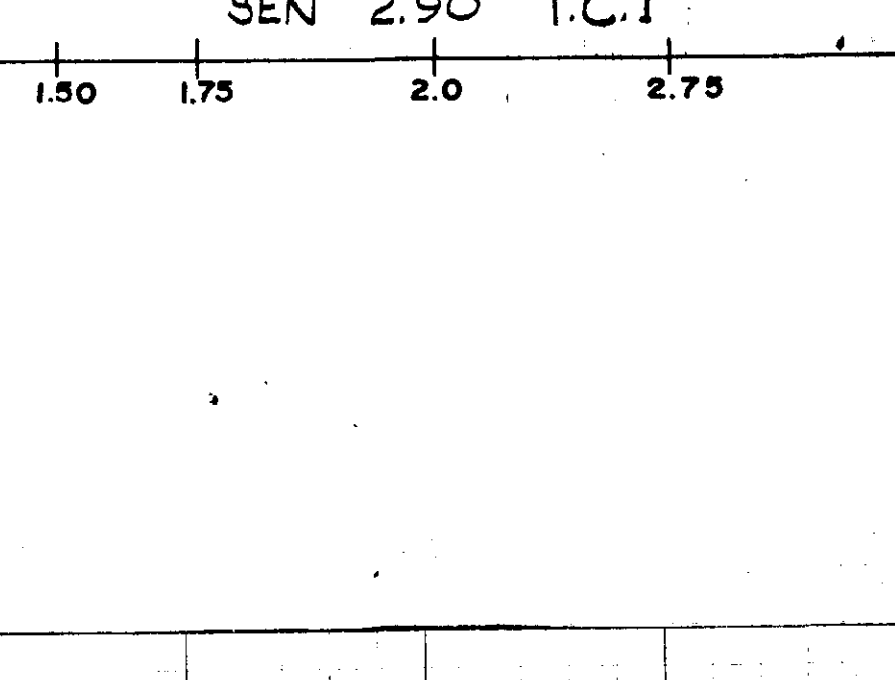
Spending: _____
 Equipment Type: _____
 Source to Director: _____

Bit Size: 5 in.
 Mud Name: DRY
 Date: _____
 Mud pH: _____
 Water Loss: _____

Witness: G. STOBART, G. GREEN

694

FLUID LEVEL 374 ft
DENSITY SCALE AT 360 ft
CASING AT 54 ft



ROKE

SIDEWALL DENSILOG

CALIPER

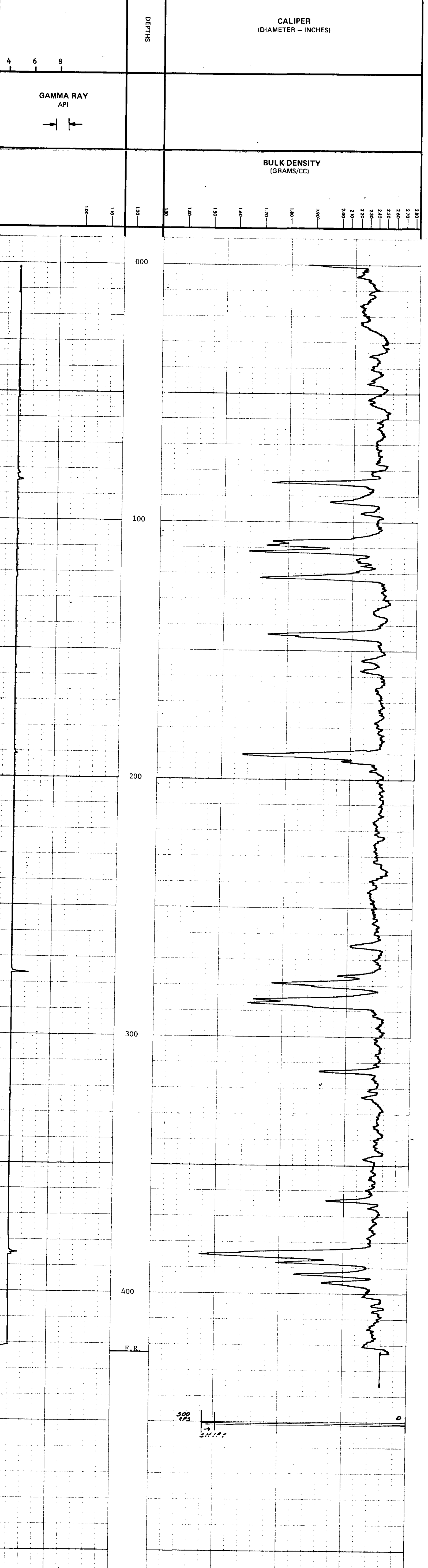
OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	WELLMOOD OF CANADA LTD
LSD	WELL	BROWNS RIVER # 3 BR-3
SEC	LOCATION	CUMBERLAND
TWP	RGE	
RGE	FIELD	COURTNEY
W	M	
	PROVINCE	BRITISH COLUMBIA
	GROUND LEVEL	
Permanent Datum	Log Measured from	CASING
Well Depths Measured from		
GR-RES	K. B.	
	CSG	
	GL	
Run No.	ONE	
Date	24 AUGUST 1975	
First Reading	423	
Last Reading	00	
Footage Logged	423	
Depth Reached	426	
Depth Driller	430	
Casing Roke	36	
Fluid Type	WATER	
Liquid Level		
Min. Diam.	5	
Operating Time	2-1/2 HOURS	
Truck No.	30	
Recorded By	STM	Witnessed By GREEN

RUN NO.	GENERAL			GAMMA RAY			SIDEWALL DENSILOG				
	FROM	TO	SPEED FT/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API G.R. UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	CPS/ DIV
1	00	423	12					3	500	1.12R	31.69
	00	426	30			CALIPER					

REMARKS

DENSITY TOOL SERIAL NO 241
CALIPER TOOL SERIAL NO 785

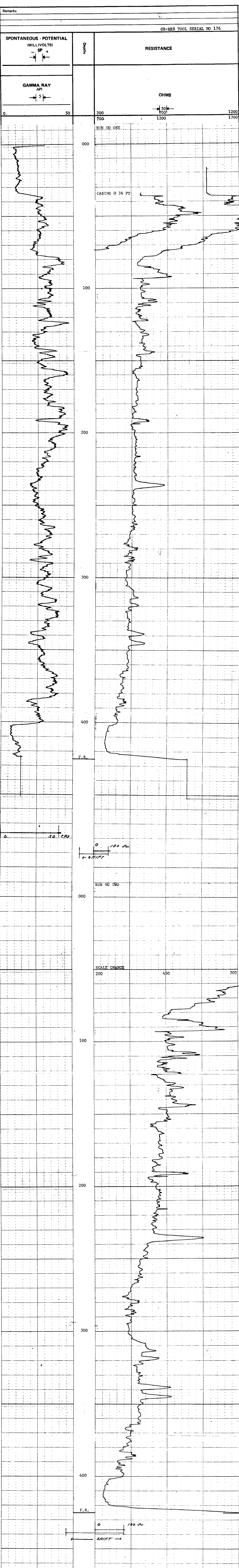


ROKE

GAMMA RAY - RESISTANCE LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO	WELWOOD OF CANADA LTD.
LSD	WELL BROWNS RIVER # 3
SEC	TWP
RCE	LOCATION <u>CHERRYBEND</u>
W	FIELD <u>COURTNEY</u>
M	PROVINCE <u>BRITISH COLUMBIA</u>
	Log Measured from <u>CASING</u>
	Well Depth Measured from <u>1 Ft. Above Perm. Datum</u>
	Perman. Datum <u>GROUND LEVEL</u>
	Elect. <u>490</u>
	K.R. _____
	C.S.G. _____
	G.L. _____
	Other Services: _____
Run No.	ONE
Date	24 AUGUST 1975
First Reading	425
Last Reading	00
Footage Logged	425
Depth Reached	430
Depth Driller	430
Casing Stake	36
Casing Driller	36
Fluid Type	WATER
Liquid Level	WATER
Min. Diam	5
Rm @ 0'	
Operating Time	1-1/2 HOURS
Truck No.	30
Recorded By	STX
Witnessed By	GREEN



Remarks

CANADIAN COLLIERIES (D) LTD
BORE HOLE N° 11 D
COMOX FIELD
 Scale:- 1"=20'

CX-11 D
694
 (MI)

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV ABOVE H.W.M. AT UNION BAY 1376.0'	DATE
Surface Drift		37' 0"			
			37' 0"	2339.0	
Sandstone		50' 0"			
Coal 1' 4" Shale 2' 88.6"		11' 6"	87' 0" 88' 6"	2289.0 2287.5	
Sandstone		66' 7"			
Shale 7" Coal 4" Shale 15" Coal 6" Shale 3" Coal 11" 152.5" Shale		4' 4" 3' 7"	155' 1" 159' 5" 163' 0" 163' 11"	2220.9 2216.6 2212.0 2212.2	
Coal 7" Shale 4' 163.11"					
Sandstone		171' 10"			
Coal		1' 0"	335' 3" 332' 3"	2040.2 2039.2	
Shale		8' 1"			
Coal		8"	344' 10" 345' 6"	2031.2 2030.5	
Shale		17' 1"			
Coal		1' 0"	362' 7"	2013.6	
Shale		1' 0"	363' 7"	2012.6	
Coal		3' 0"	368' 7"	2007.4	
Shale		1' 0"	369' 7"	2006.4	
Sandstone		4' 8"	378' 5"	2001.7	
Coal & Shale		1' 6"	379' 5"	2000.2	
Shale		3' 2"	378' 11"	1997.2	
Sandstone		35' 6"			
Shale		1' 0"	414' 5"	1961.6	
Coal		5' 3"	415' 5"	1960.6	
Sandstone		10' 10"	420' 8"	1955.3	
Coal 6" Shale 4' 132.8"		1' 2"	431' 6" 432' 8"	1944.5 1943.3	
Coal 4"		9' 9"			
Sandstone		2' 6"	442' 5"	1933.6	
Shale		5' 5"	444' 11"	1931.1	
Coal 6" Shale 4' 152.2"		1' 10"	450' 4" 452' 2"	1925.7 1923.9	
Shale		15' 2"			
			467' 4"	1908.7	
Sandstone		61' 0"			
			528' 4"	1847.7	
Shale		18' 6"			
Coal 8" Shale 2' 0" Coal 5" Shale 6" Coal 10" Shale 1' 3" Coal 4' 154.7"		1' 0"	546' 10" 547' 10"	1823.2 1822.2	
Sandstone		6' 3"			
Shale		2' 6"	554' 7" 557' 1"	1821.4 1818.9	
Sandstone		33' 0"			
Shale		3"	590' 1"	1785.3	
Coal		5' 7"	595' 11"	1780.1	
Sandstone		21' 9"			
Shale		2' 10"	617' 8"	1758.3	
Shale		1' 3"	620' 6"	1755.5	
Sandstone		1' 3"	622' 3"	1753.7	
Coal 7' 633.7"		1' 4"	623' 7"	1751.4	
Shale		17' 1"			
Sandstone		9' 1"	640' 8"	1725.2	
Shale		1' 7"	649' 9"	1724.2	
Coal 3" Shale 5" Coal 9" Shale 12" Coal 4' 634.1" Sandstone		3' 3"	651' 4" 654' 7"	1724.7 1721.8	
Sandstone		7' 7"	662' 2"	1713.9	
Shale		33' 6"			
Coal 2" Shale 4' 636.2"		6"	695' 8"	1690.3	
Sandstone		2' 8"	698' 10"	1687.2	
Shale		14' 9"			
Trop.		10' 9"	713' 7"	1662.4	
			724' 4"	1651.7	

CANADIAN COLLIERIES (D) LTD
BORE HOLE N° 12
COMOX FIELD
Scale: 1" = 20'

CX-12
694
 (M2)

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV ABOVE H.W.M AT UNION BAY	DATE
Surface		5' 0"	5' 0"		Oct 25, 1892
Sandstone		41' 6"			
Shale		2' 6"	16' 6"		
Coal		1' 2"	17' 8"		
Shale		1' 2"	19' 0"		
Coal		3' 7"	22' 7"		
Shale		4' 0"	26' 7"		
Sandstone		3' 0"	29' 7"		
Shale		71' 0"	62' 6"		
Sandstone		71' 0"			
Shale		3' 7"	133' 6"		
Coal		- 5"	137' 1"		
Shale		5' 0"	137' 6"		
Sandstone		4' 0"	142' 6"		
Shale		30' 0"	146' 6"		
Coal		- 10"	176' 6"		
Shale		2' 8"	177' 4"		
Sandstone		1' 0"	180' 0"		
Shale		- 6"	181' 0"		
Sandstone		74' 0"			
Shale		8' 6"	255' 6"		
Sandstone		5' 0"	264' 0"		
Shale		4' 0"	269' 0"		
Sandstone		6' 0"	273' 0"		
Shale		5' 3"	279' 0"		
Coal		- 9"	284' 3"		
Coal/ Shale		2' 0"	285' 3"		
Shale		4' 0"	287' 0"		
Sandstone		2' 0"	291' 0"		
Shale		- 6"	293' 0"		
Sandstone		2' 0"	293' 6"		
Shale		2' 0"	295' 6"		
Shale		1' 6"	297' 0"		
Sandstone		81' 0"			
Shale		9' 0"	378' 0"		
Sandstone		2' 0"	387' 0"		
Shale		4' 0"	389' 0"		
Sandstone		2' 6"	393' 0"		
Coal		- 8"	395' 6"		
Shale		19' 7"	396' 2"		
Coal		2' 3"	415' 9"		
Shale		15' 0"	418' 0"		
Sandstone		2' 0"	433' 0"		
Shale		9' 6"	435' 0"		
Coal		- 6"	444' 6"		
Shale		- 4"	445' 0"		
Coal		1' 0"	445' 4"		
Shale		4' 0"	446' 4"		
Coal		5' 9"	452' 8"		
Shale		6' 0"	458' 5"		Jan. 26, 1893.

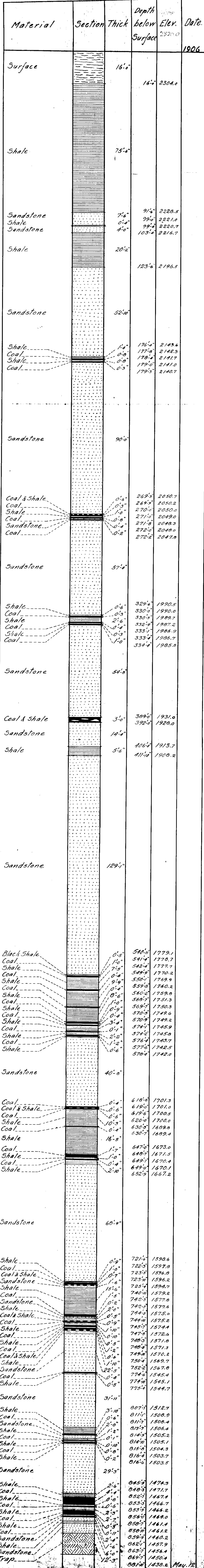
CANADIAN COLLIERIES (DUNSMUIR) LTD
PROSPECT HOLE N°12-D
COMOX FIELD

CX-12D

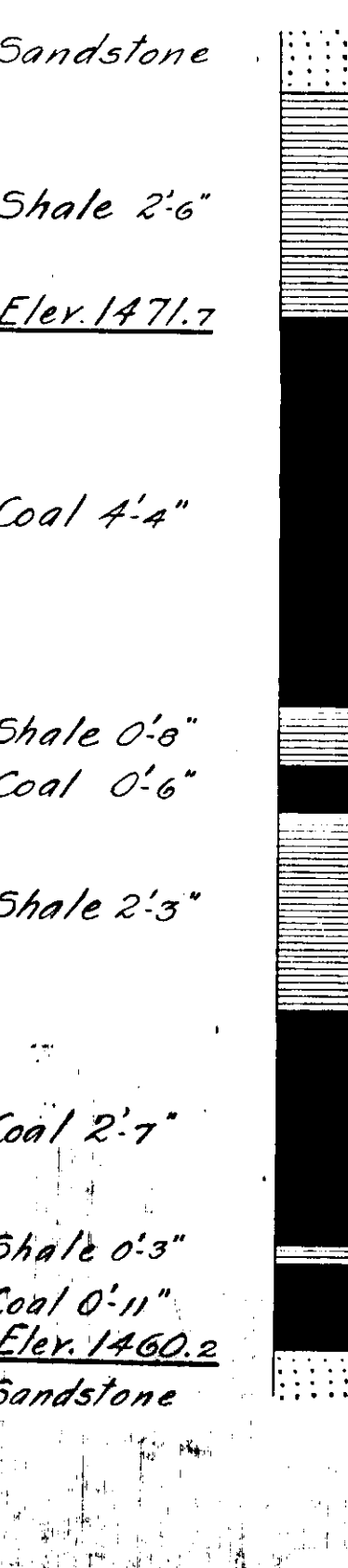
694

M3

SCALE: 1"=20'



Lower Seam



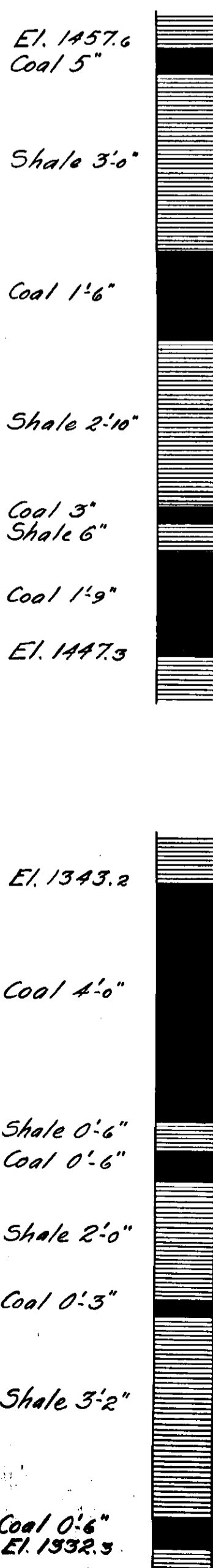
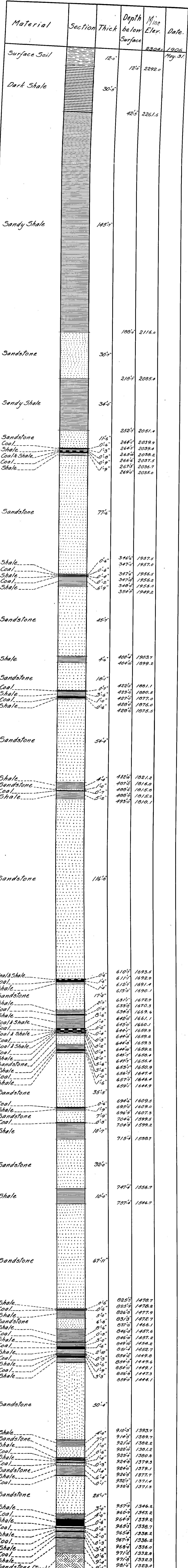
CANADIAN COLLIERIES (DUNSMUIR) LTD CX-13D

**PROSPECT HOLE N°13-D
COMOX FIELD**

SCALE: 1"=20'

694

M4



CANADIAN COLLIERIES (D) LTD
BORE HOLE No. 14
COMOX FIELD
Scale: 1"=20'

CX-14
694
 MS

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV ABOVE H.W.M. AT UNION BAY	DATE
Surface		10' 0"	10' 0"		May 10-1933
Sandstone		72' 5"			
Coal Sandstone Coal		6' 3' 3'	82' 5" 85' 4"		
Sandstone		65' 2"			
Coal & Shale Coal Shale Coal Shale Coal Shale Coal Shale Sandstone Coal & Shale		7' 3' 4' 3' 3' 6' 6' 3' 3' 3' 3' 3'	148' 6" 154' 8"		
Sandstone		93' 11"			
Coal Shale Coal Shale Shale		4' 5' 11' 10'	248' 7" 253' 2" 256' 0"		
Sandstone		18' 0"			
Shale		1' 0"	271' 0" 272' 0"		
Sandstone		52' 10"			
Coal & Shale Coal Shale Coal		3' 3' 3'	324' 10" 330' 4"		
Shale		25' 8"			
Coal Shale Coal Shale Shale		6' 7' 8' 10' 5' 0"	356' 0" 366' 0"		
Sandstone		44' 4"			
Shale		22' 8"	410' 4"		
Coal Shale Coal Shale		1' 0" 1' 0" 6' 0"	433' 0" 436' 0" 442' 0"		
Sandstone		69' 6"			
Shale		22' 6"	511' 6"		
Sandstone Coal Shale Coal Shale Coal Shale Coal		1' 0" 1' 0" 2' 0" 2' 0" 3' 0" 7' 0" 6' 0"	534' 0" 542' 0" 549' 6" 550' 0"		
Shale		12' 0"	562' 0"		
Sandstone		18' 0"			
Shale		7' 0"	580' 0" 587' 0"		
Sandstone		18' 0"			
Shale		19' 0"	606' 0"		
Sandstone		11' 0"	625' 0"		
Shale Sandstone Shale		3' 0" 3' 0" 1' 6"	636' 0" 639' 0" 643' 6"		
Sandstone		21' 0"	664' 6"		June 23-1933

CANADIAN COLLIERIES (DUNSMUIR) LTD.

CX-17

PROSPECT HOLE N° 17

COMOX DISTRICT

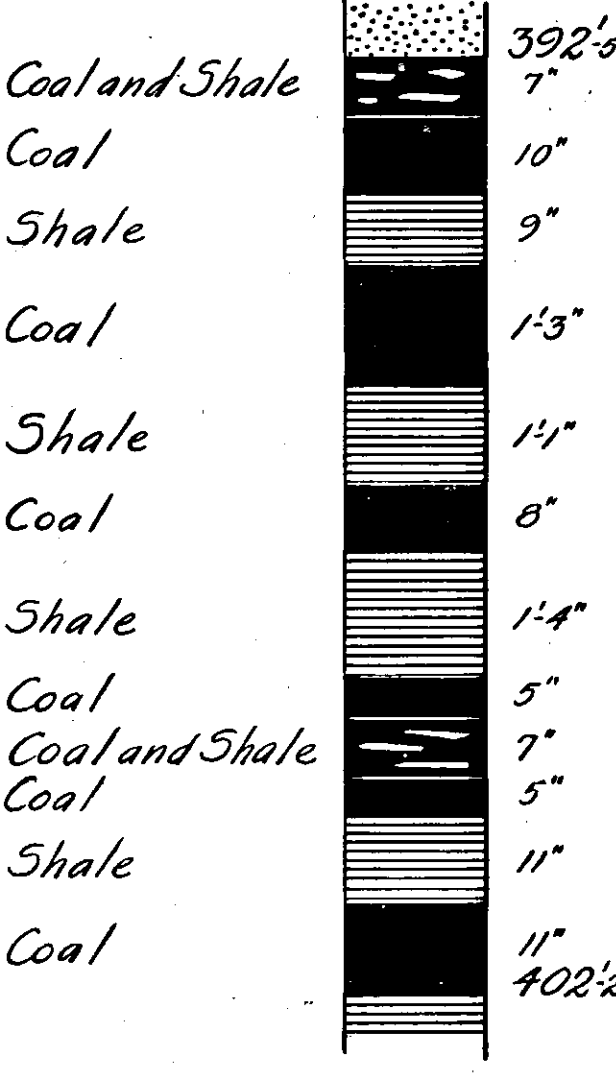
694

SCALE - 1" = 20'

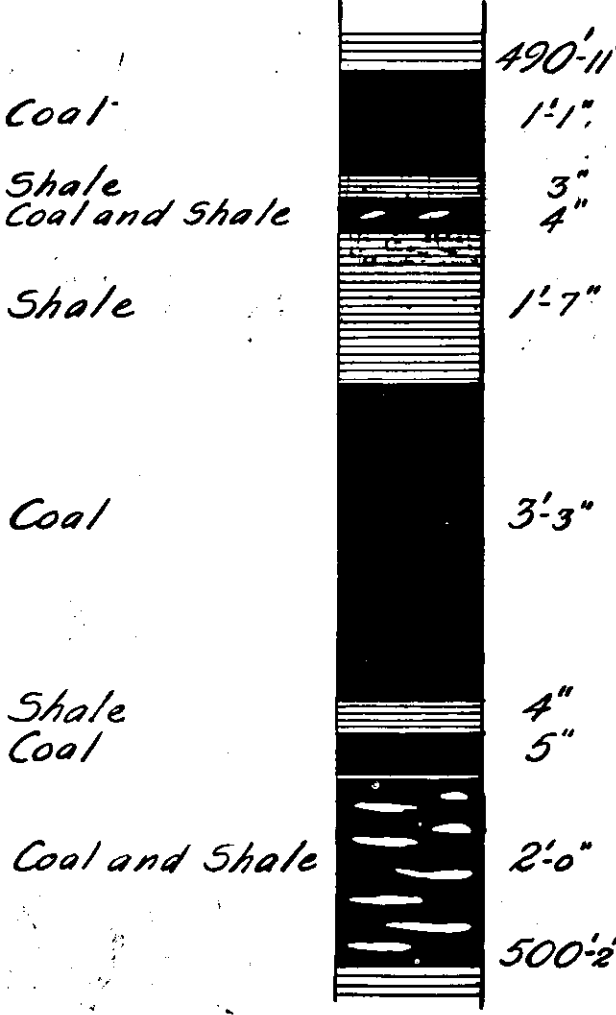
(M6)

Material	Section	Thick	Depth below Surface	Elev.	Date
Gravel		3'-0"	3'-0"	2456.00	1896
Yellow Clay		6'-6"	9'-6"	2453.00	
Cem. Gravel		1'-8"	11'-2"	2444.84	
Shale		80'-4"			
Sandstone		3'-9"	91'-6" 95'-3"	2364.50 2360.75	
Shale		17'-3"			
Sandstone		32'-2"	112'-6"	2343.50	
Soft Coal		7"	144'-8"	2311.34	
Shale		1'-4"	145'-3"	2310.75	
			146'-7"	2309.42	
Sandstone		88'-10"			
Coal		2"	235'-5" 235'-7"	2220.58 2220.42	
Sandstone		60'-5"			
Coal and Shale		3'-4"	296'-0" 299'-4"	2160.00 2156.67	
Coal and Shale		7"			
Coal		10"			
Shale		9"			
Coal		1'-3"			
Shale		1'-1"			
Coal		8"			
Shale		1'-4"			
Coal		5"			
Coal and Shale		7"			
Coal		5"			
Shale		11"			
Coal		11"			
Coal & Shale		7"	392'-5"	2063.58	
Coal		10"	393'-0"	2063.00	
Shale		9"	393'-10"	2062.17	
Coal		1'-3"	394'-7"	2061.42	
Shale		1'-3"	395'-10"	2060.17	
Coal		1'-1"	396'-11"	2059.08	
Shale		1'-8"	397'-7"	2058.42	
Coal		1'-4"	398'-11"	2057.08	
Coal & Shale		5"	399'-4"	2056.67	
Coal		7"	399'-11"	2056.08	
Shale		5"	400'-4"	2055.67	
Coal		11"	401'-3"	2054.75	
Shale		7'-11"	402'-2"	2053.84	
Coal		7'-11"	403'-5"	2052.75	
Sandstone		48'-7"			
Coal		1'-1"			
Shale		3"			
Coal and Shale		4"			
Shale		1'-7"			
Shale		3'-1"	451'-10"	2004.17	
Coal		6"	454'-11"	2001.08	
			455'-6"	2000.50	
Shale		35'-6"			
Coal		3'-3"			
Coal		1'-1"	490'-11"	1965.08	
Shale		3"	492'-0"	1964.00	
Coal and Shale		1'-1"	492'-3"	1963.75	
Shale		1'-1"	492'-7"	1963.42	
Coal		3'-3"	494'-2"	1961.84	
Shale		3'-3"	497'-3"	1958.58	
Coal		4"	497'-9"	1958.25	
Coal and Shale		2'-0"	498'-2"	1957.84	
Shale		2'-0"	500'-2"	1955.84	
Sandstone		2'-0"	502'-2"	1953.84	
Shale		2'-7"	504'-9"	1951.25	
Shale		3'-0"	507'-9"	1948.25	
Trap Rock		28'-6"			
			536'-0"	1920.00	

Upper Seam



Lower Seam



CANADIAN COLLIERIES (DUNSMUIR) LTD.
PROSPECT HOLE N^o 18.
COMOX DISTRICT

CX-18
694
M7

SCALE - 1" = 20'

Material	Section	Thick	Depth below Surface	Elev.	Date
Gravel		3'-0"	3'-0"	2444.00 2441.01	April 1896
Clay		18'-0"	21'-0"	2423.00	
Cem. Gravel		13'-0"	34'-0"	2410.00	
Shale		2'-3"	36'-3"	2407.75	7th
Sandstone		7'-9"	44'-0"	2400.00	8 "
Shale		14'-0"	58'-0"	2386.00	
Sandstone		7'-4"	65'-4"	2378.67	9 "
Shale		96'-9"			
Sandstone		9'-4"	162'-1"	2281.92	11 "
Shale		10'-0"	171'-5"	2272.58	13 "
Sandstone		7'-6"	181'-5"	2262.57	
Shale		7'-9"	188'-11"	2255.08	
Sandstone		16'-11"	196'-8"	2247.34	14 "
Shale & Coal		4"	213'-7"	2230.42	
Shale		3"	213'-10"	2230.17	
Coal		1'-3"	214'-2"	2229.84	
Shale		6"	215'-5"	2228.58	
Sandstone		80'-6"	215'-11"	2228.08	15 "
Shale		7'-9"	296'-5"	2147.58	17 "
Coal		3"	306'-2"	2137.84	
Sandstone		56'-6"	306'-5"	2137.58	
Coal and Shale		3'-10"	362'-11"	2081.08	20 "
Sandstone		48'-3"	366'-9"	2077.25	21 "
Shale		2'-3"	415'-0"	2029.00	24 "
Sandstone		38'-7"	417'-3"	2026.75	
Coal		1'-9"	455'-10"	1988.17	25 "
Coal and Shale		1'-6"	457'-7"	1986.42	
Coal		1'-0"	459'-1"	1984.92	
Sandstone		1'-5"	459'-11"	1984.08	
Shale		1'-1"	461'-4"	1982.67	27 "
Sandstone		43'-6"	462'-5"	1981.58	
Shale		1'-0"	505'-11"	1938.08	28 "
Coal		1'-2"	506'-11"	1937.08	
Shale		9'-9"	508'-1"	1935.92	
Coal		1'-0"	517'-10"	1926.17	29 "
Shale		13'-4"	518'-10"	1925.17	
Coal and Shale		5"	532'-2"	1911.84	30 "
Coal		2'-2"	532'-7"	1911.42	
Shale		1'-10"	534'-9"	1909.25	
Sandstone		1'-10"	535'-7"	1908.42	
Shale		5'-1"	537'-5"	1906.58	
Trap Rock		6'-8"	542'-6"	1901.50	
			549'-2"	1894.84	

CANADIAN COLLIERIES (DUNSMUIR) LTD.

BORE HOLE N° 19

COMOX FIELD

Scale: - 1" = 20'

CX-19
694
M8

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV ABOVE MNN AT UNION DAT 5650'	DATE
Surface Drift		23' 0"			May 1896
			23' 0"	542.0	
Sandstone		61' 11"			
Shale		2' 9"	84' 11"	490.1	
Coal			87' 2"	477.8	
Shale		5' 9"			
Coal		1' 10"	92' 11"	470.2	
Shale		3' 8"	94' 3"		
Shale		1' 6"	104' 5"	460.6	
Coal		1' 3"	106' 2"	458.8	
Sandstone		40' 11"			
Shale		1' 0"	147' 1"	417.9	
Coal		1' 2"	148' 3"	415.6	
Shale		18' 4"			
			167' 9"	397.2	
Sandstone		16' 11"			
Shale		8' 1"	184' 8"	380.3	
Coal		1' 4"	197' 9"	372.2	
Shale		3' 1"			
Coal		5' 2"	202' 5"	362.6	
Shale		2' 3"			
Coal		3' 3"			
Shale		2' 6"			
Coal		8' 8"			
Shale		3'			
Sandstone		25' 9"			
Shale		4' 8"	228' 2"	336.8	
Coal		10"	232' 10"		
Shale & Coal		6"	238' 2"	330.9	
Sandstone		26' 1"			
Shale		5' 4"	260' 3"	304.7	
			265' 7"	299.3	
Sandstone		26' 0"			
Shale		5' 11"	291' 7"	273.4	
Coal		5"	297' 6"	267.5	
Shale		4"	302' 8"	265.3	
Coal		4"	308' 11"	264.1	
Shale		1' 3"			
Coal		1'	305' 7"	259.4	
Shale		8"			
Shale		6' 0"	311' 7"	253.4	
Sandstone		18' 6"			
Shale		2' 1"	330' 1"	234.9	
Coal		8"	332' 2"	232.8	
Shale		2' 0"	334' 10"	230.2	
Coal & Shale		1' 3"	337' 1"	227.9	
Coal & Shale		1' 3"			
Shale		2' 10"	339' 11"	225.1	
Trap		35' 5"			
			375' 4"	189.7	

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV ABOVE H.W.MAT UNION BAY A67-0'	DATE
Surface Drift		15' 6"	15' 6"	451.5	June 1896
Shale		89' 1"			
Sandstone		5' 1"	104' 7" 109' 8"	362.4 357.3	
Shale		11' 7"	121' 3"	345.7	
Sandstone		13' 2"			
Shale		1' 6"	134' 5" 135' 7"	332.6 331.7	
Sandstone		83' 11"			
Shale Coal		1' 0" 3"	219' 10" 220' 10"	247.2 246.2	
Sandstone		54' 8"			
Coal & Shale		2' 7"	275' 9"	131.2	
Shale		3' 3"	278' 4"	122.7	
Coal & Shale		1' 6"	281' 7" 282' 7"	125.4 122.2	
Sandstone		46' 10"			
Shale		4' 3"	329' 11" 334' 2"	137.1 132.8	
Sandstone		25' 2"			
Coal 1' 11" Shale 3" Soft Coal 2' 6"		4' 8"	359' 4" 364' 0"	107.7 103.0	
Sandstone		24' 8"			
Shale Coal		1' 1" 4' 3"	388' 8" 389' 5"	78.3 77.2	
Trop.		17' 7"	324' 0" 411' 7"	73.0 55.4	

CANADIAN COLLIERIES (DUNSMUIR) LTD.

BORE HOLE No. 151

COMOX FIELD

SCALE: 1"=20'

CX-151
694
MI

Deduct 2000 ft from Elev's

Note:- This Bore Hole was driven down between No. 14 & 15 East Levels near No. 2 Slope No. 4 Mine to convey power wires

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV. 2535.0 Above H. M. M. Union Bay	DATE
Pit in coarse gravel		17'-0"			
Coarse gravel		5'-0"	17'-0"	2518.0	
Coarse gravel & boulders		8'-0"	22'-0"	2513.0	Aug. 12-18
Coarse gravel		22'-0"	31'-0"	2504.0	Aug. 13.
					Aug. 14
			53'-0"	2482.0	Aug. 15
					Aug. 16
Gravel & boulders		25'-0"	78'-0"	2457.0	Aug. 17
					Aug. 19
Gravel		10'-0"	88'-0"	2447.0	Aug. 20
Sand & gravel		8'-0"	97'-0"	2438.0	Aug. 21
Sand		10'-0"	107'-0"	2428.0	Aug. 22
Gravel		7'-0"	114'-0"	2421.0	Aug. 23
					Aug. 24
					Aug. 28
					Aug. 29
Sandstone		99'-0"			Aug. 30
					Aug. 31
Shale & coal		1'-0"	213'-0"	2322.0	Sep. 3-10
			212'-0"	2327.0	
Sandstone		52'-0"			Sep. 4
			268'-0"	2269.0	Sep. 5
Hard broken shale		24'-0"			Sep. 6
Hard shale		5'-0"	290'-0"	2245.0	Sep. 6
Sandstone		13'-0"	299'-0"	2238.0	Sep. 7
Hard broken sandstone		25'-0"	312'-0"	2223.0	Sep. 7
					Sep. 9
Hard sandstone		20'-0"	335'-0"	2200.0	Sep. 9
					Sep. 10
Shale		15'-0"	364'-0"	2171.0	Sep. 10
Coal		2'-0"	379'-0"	2154.0	Sep. 11
Shale with coal layers		2'-0"	381'-0"	2154.0	Sep. 11
			383'-0"	2152.0	
Shale		18'-0"			Sep. 12
Coal broken shale		6'-0"	391'-0"	2133.5	Sep. 12
		4'-0"	395'-0"	2133.0	
			406'-0"	2129.0	
Sandstone		58'-0"			Sep. 13
					Sep. 16
Coal		1'-0"	482'-0"	2070.0	Sep. 17
			488'-0"	2069.0	
Shale		18'-0"			Sep. 17
Sandstone		10'-0"	484'-0"	2051.0	Sep. 17
Shale		12'-0"	494'-0"	2041.0	Sep. 18
Sandstone		20'-0"	506'-0"	2029.0	Sep. 18
					Sep. 19
Hard broken sandstone		36'-0"	526'-0"	2009.0	Sep. 19
					Sep. 20
Shale & coal mixed		2'-0"	582'-0"	1973.0	Sep. 21
Shale		3'-0"	585'-0"	1968.0	Sep. 21
					Sep. 23
Sandstone		22'-0"			Sep. 23
Shale & coal		1'-0"	589'-0"	1946.0	Sep. 24
Shale		3'-0"	592'-0"	1945.0	Sep. 24
			593'-0"	1942.0	
Sandstone		27'-0"			Sep. 25
					Sep. 25
Shale		1'-0"	620'-0"	1915.0	Sep. 26
Dirty coal & shale bands		4'-0"	624'-0"	1914.0	Sep. 26
Shale		2'-0"	626'-0"	1910.0	Sep. 26
					Sep. 27
Sandstone		87'-0"			Sep. 28
					Sep. 30
Shale		2'-0"	694'-0"	1841.0	Sep. 30
Coal		5'-0"	696'-0"	1839.0	Sep. 30
Shale		7'-0"	698'-0"	1837.0	Sep. 30
Sandstone		7'-0"	700'-0"	1836.0	Sep. 30
Broken shale		6'-0"	700'-0"	1835.0	Sep. 30
					Oct. 1-10
Hard broken shale and sandstone		15'-0"			Oct. 2
Hard grey sandstone		11'-0"	721'-0"	1814.0	Oct. 2
Broken muddy shale		2'-0"	733'-0"	1805.0	Oct. 3
			734'-0"	1801.0	
Hard broken black shale		15'-0"			Oct. 4
Coal		2'-0"	749'-0"	1788.0	Oct. 4
Broken muddy black shale with layers of sandstone		10'-0"	751'-0"	1784.0	Oct. 4
Hard grey shale		9'-0"	761'-0"	1774.0	Oct. 5
Broken shale		6'-0"	770'-0"	1765.0	Oct. 7
Coal and shale		11'-0"	776'-0"	1759.0	Oct. 7
					Oct. 8-10

No. 4 MINE

CANADIAN COLLIERIES (DUNSMUIR) LTD.

CX-153

BORE HOLE No. 153

694

COMOX FIELD

SCALE: 1" = 20'

M2

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV. 2437.9 Above H.W.M. at Union Bay	DATE
Gravel & hard clay		8'-0"	8'-0"	2429.9	Dec. 31-18
Hard clay		4'-0"	12'-0"	2425.9	
Gravel		6"	12'-6"	2425.3	
Hard clay		4'-6"	17'-0"	2420.9	
Gravel & sand		8'-0"	25'-0"	2412.9	Jan. 2-19
Gravel & boulders		7'-0"	32'-0"	2405.9	Jan. 3
Hard broken sandstone		13'-0"	45'-0"	2392.9	Jan. 8
Broken sandstone		16'-0"	61'-0"	2376.9	Jan. 14
Broken shale		10'-2"	71'-2"	2366.7	
Coal		6"	71'-8"	2366.0	
Broken shale		5'-4"	77'-0"	2360.9	Jan. 15
Shale		8'-0"	85'-0"	2352.9	
Dirty coal		6"	85'-6"	2352.4	
Broken shale		1'-2"	86'-8"	2351.0	
Broken shale		3"	87'-1"	2350.7	
Coal		4'-5"	91'-6"	2346.9	
Broken shale		4"	95'-10"	2340.1	
Broken coal		4'-2"	97'-0"	2340.9	Jan. 16
Broken muddy shale		1'-6"	97'-6"	2340.4	
Broken dirty coal		1'-0"	98'-6"	2339.4	
Broken muddy shale		1'-0"	99'-6"	2338.4	
Broken coal		1'-0"	100'-6"	2337.4	
Broken muddy shale		1'-0"	101'-6"	2336.4	
Shale		1'-0"	102'-6"	2335.4	
Hard silty shale		18'-0"	114'-0"	2323.9	Jan. 17
Sandstone		18'-0"	132'-0"	2307.9	Jan. 18
Broken shale		1'-4"	133'-4"	2304.5	
Broken coal		1'-0"	134'-4"	2304.3	
Sulphur band		6"	135'-0"	2304.2	
Shale		3'-6"	138'-6"	2299.9	
Dirty broken coal			139'-0"	2299.9	
Shale			140'-0"	2298.9	
Sandstone		11'-0"	149'-0"	2288.9	
Mud		6"	149'-6"	2288.4	
Broken shale		1'-0"	150'-6"	2287.4	Jan. 20
Shale		5'-0"	155'-6"	2280.9	
Shaly sandstone		5'-0"	160'-6"	2276.9	
Muddy shale		5'-0"	165'-6"	2271.9	
Bony coal		4"	166'-4"	2271.6	
Muddy shale		4'-8"	171'-0"	2266.9	Jan. 22
Shale		5'-0"	176'-0"	2261.9	
Shaly sandstone		18'-0"	194'-0"	2243.9	Jan. 23
Muddy shale		12'-0"	206'-0"	2231.9	Jan. 25
Sandstone		30'-6"	236'-6"	2201.4	Jan. 27
Broken shale		3"	236'-6"	2201.4	
Coal		4"	237'-0"	2200.9	
Shale		10"	237'-10"	2200.2	
Coal			238'-0"	2199.4	
Shale		12'-6"	251'-0"	2186.9	Jan. 28
Sandy shale		9'-0"	260'-0"	2177.9	
Muddy shale		1'-6"	261'-6"	2176.4	
Coal		1'-2"	262'-8"	2175.2	
Shale		1'-2"	264'-0"	2173.2	
Coal		1'-2"	265'-2"	2173.0	
Shale		1'-2"	266'-4"	2172.8	
Coal		1'-2"	267'-6"	2171.7	Jan. 29
Shaly sandstone		2'-0"	269'-6"	2170.4	
Shale		2'-0"	271'-6"	2169.9	
Grey sandstone		16'-0"	286'-0"	2151.9	
Hard grey broken sandstone		15'-0"	301'-0"	2138.9	Jan. 31
Sandstone		2'-0"	303'-0"	2134.9	
Broken muddy shale		14'-0"	317'-0"	2120.9	Feb. 1 st
Hard broken shale		14'-6"	331'-6"	2106.4	Feb. 3
Broken coal		4"	331'-10"	2106.0	
Hard shaly sandstone		3'-0"	334'-10"	2103.0	
Broken coal		6"	335'-4"	2102.6	
Broken muddy shale		1'-2"	336'-6"	2102.2	Feb. 4
Broken coal		1'-2"	337'-8"	2100.9	
Broken shale		11"	338'-0"	2099.9	
Hard grey sandstone		9'-0"	347'-0"	2089.9	Feb. 5
Sandstone		16'-0"	363'-0"	2074.9	Feb. 6
Broken dark shaly sandstone		4'-5"	367'-5"	2070.5	
Badly broken coal		1'-7"	369'-0"	2069.9	
Broken muddy shale		3'-0"	372'-0"	2065.9	Feb. 7
Trap Rock		11'-0"	373'-0"	2054.9	Feb. 8

CANADIAN COLLIERIES (DUNSMUIR) LTD.

BORE HOLE No. 155

COMOX FIELD

Scale: 1"=20'

CX-155
694
M3

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV. 236.0 Above H.W. Mark at Union Bay	DATE
Sand & gravel		8'-0"	8'-0"	2420.0	
Clay		6'-0"	14'-0"	2422.0	Feb. 24-19
Coarse gravel		4'-0"	18'-0"	2418.0	" 25 "
Clay & gravel		5'-0"	23'-0"	2413.0	" 26 "
Gravel & boulders		6'-0"	29'-0"	2407.0	" 27 "
Boulders & clay		4'-0"	33'-0"	2403.0	" 28 "
					Mar-1-19
Sandstone		50'-0"			" 3 "
Shale		3'-0"	23'-0"	2353.0	
Shaly sandstone		7'-0"	26'-0"	2350.0	" 4 "
Broken shale		6'-6"	33'-0"	2343.0	
Coal		1'-0"	34'-0"	2336.5	
Shale		2'-0"	36'-0"	2335.5	
Coal		1'-0"	37'-0"	2334.5	
Broken shale		2'-0"	39'-0"	2334.0	
Coal		1'-0"	40'-0"	2333.0	
Shale		1'-6"	41'-0"	2332.0	" 5 "
Sandstone		40'-0"			
Shale		3'-0"	144'-0"	2292.0	" 6 "
			147'-0"	2289.0	
					" 7 "
Sandstone		64'-0"			" 8 "
			221'-0"	2225.0	" 10 "
Hard broken shale		12'-0"			
Broken coal		6'-0"	233'-0"	2182.5	
Shale		5'-0"	238'-0"	2182.5	
Coal		2'-0"	240'-0"	2182.4	
Shale		2'-0"	242'-0"	2182.2	" 11 "
Shale		10'-2"			
			240'-0"	2186.0	
Shaly sandstone		10'-0"	250'-0"	2186.0	" 12 "
Hard gray sandstone		35'-0"			" 13 "
Grey sandstone		3'-6"	285'-0"	2151.0	" 14 "
Shale		4'-6"	289'-0"	2147.5	
Sandstone		1'-0"	293'-0"	2143.0	
Shale		4'-0"	297'-0"	2142.0	
Bony coal & black shale		1'-0"	298'-0"	2139.0	
Shale		1'-0"	299'-0"	2137.0	" 15 "
Hard black shale		11'-0"			
Broken coal		1'-0"	310'-0"	2124.5	" 17 "
Shale		1'-0"	311'-0"	2124.5	
Hard black shale		11'-0"			
Shaly sandstone		8'-0"			
			333'-0"	2103.0	" 19 "
Sandstone		36'-0"			" 20 "
			369'-0"	2087.0	" 21 "
Hard broken gray sandstone		15'-0"			" 22 "
			384'-0"	2054.0	" 24 "
Sandstone		46'-0"			" 25 "
			430'-0"	2006.0	
Shaly sandstone		3'-6"	433'-0"	2002.5	
Broken shale		1'-0"	434'-0"	2001.5	
Shale		1'-0"	435'-0"	1999.7	
Dark sandstone		1'-6"	436'-0"	1999.3	
Dark sandstone		2'-0"	438'-0"	1997.7	" 25 "
Broken shale		2'-0"	440'-0"	1997.0	
Coal		1'-0"	441'-0"	1996.2	
Shale		3'-0"	442'-0"	1995.5	
Coal (broken)		2'-0"	444'-0"	1994.0	
Broken shale		2'-0"	446'-0"	1993.8	
Coal		1'-0"	447'-0"	1993.0	
Broken shale		1'-0"	448'-0"	1992.0	" 26 "
Dark sandstone		1'-0"	449'-0"	1991.0	
Hard & broken gray sandstone		15'-0"			" 27 "
			464'-0"	1968.0	
Broken gray sandstone		16'-0"			" 28 "
			480'-0"	1952.0	
Dark sandstone		6'-0"			
Layers of shale & coal		1'-0"	486'-0"	1946.0	
Dark sandstone		6'-0"	491'-0"	1939.0	
Broken shale		2'-0"	493'-0"	1937.0	
Sandy shale		2'-0"	495'-0"	1935.0	" 29 "
Hard broken shaly sandstone		14'-0"			
			515'-0"	1921.0	" 31 "
Shaly sandstone		15'-0"			
			530'-0"	1906.0	
Black shale		6'-0"			
Coarse black & white sandstone with layers of shale		4'-0"	536'-0"	1900.0	Nov. 1-19
Black shale		9'-0"	540'-0"	1896.0	
			549'-0"	1887.0	" 2-19
Trap Rock		25'-0"			
			574'-0"	1862.0	Apr. 3 19

UPPER SEAM

LOWER SEAM

CANADIAN COLLIERIES (DUNSMUIR) LTD.

BORE HOLE No. 156

COMOX FIELD

SCALE :- 1" = 20'

CX-156

694

M4

Material	Section	Thickness	Depth below surface	Elevation above H. W. M. at Union Bay 2502	Date
Gravel		10'-0"	10'-0"	2492.0	April-15-19
Gravel & boulders		9'-0"	19'-0"	2483.0	- 16 -
Gravel		31'-0"			- 17 -
					- 18 -
Coarse gravel		4'-0"	50'-0"	2452.0	- 19 -
Gravel		6'-0"	54'-0"	2448.0	- 21 -
Hard clay		5'-0"	60'-0"	2442.0	- 22 -
			65'-0"	2437.0	
Gravel		10'-0"	75'-0"	2427.0	- 23 -
Gravel & boulders		10'-0"	85'-0"	2417.0	- 24 -
Gravel		14'-0"	99'-0"	2403.0	- 25 -
Gravel & boulders		11'-0"	110'-0"	2392.0	- 26 -
Gravel		6'-0"	116'-0"	2386.0	- 28 -
Sandstone		6'-0"	122'-0"	2380.0	
Broken shale		6'-0"	128'-0"	2374.0	May 7-19
Sandstone		30'-6"			- 8 -
Broken shale		3'-9"	158'-6"	2343.5	
Hard sandy shale		3'-0"	168'-0"	2334.0	- 9 -
Broken shale		8'-0"			
Coal		4'-0"	176'-0"	2326.0	
Broken shale		2'-3"	180'-0"	2322.0	
Agglomerate		13'-0"	196'-0"	2306.0	- 12 -

Only 50% of core was obtained from this seam. It was examined by A.G. Lynn and Berglund the driller, and found it all coal

Coal
Shale
Black sandstone

158'-6" 2343.5
159'-0" 2343.0
159'-7" 2342.9
160'-4" 2341.7
160'-3" 2340.8
165'-0" 2337.0
168'-0" 2334.0
176'-0" 2326.0
180'-0" 2322.0
180'-6" 2321.7
180'-9" 2321.4
183'-0" 2319.0

CANADIAN COLLIERIES (DUNSMUIR) LIMITED
BORE HOLE N^o 157
COMOX FIELD

Scale: - 1" = 20'

NELSON DISTRICT
CX-157
694
 MS

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV. 470.0 ABOVE H.W.M. AT UNION BAY	DATE
Sand & Gravel		3' 0"	3' 0"	467.0'	
Hard blue Clay & Boulders		7' 6"	10' 6"	459.5'	May 17 th - 22 nd 21
					" 23 rd "
Sandstone		76' 6"			" 25 th "
					" 26 th "
Broken Muddy Shale Coal (broken)		3' 0" 6"	87' 0" 90' 0" 90' 6"	383.0' 380.0' 379.5'	" 27 th "
					" 28 th "
Sandstone		53' 0"			" 30 th "
Broken Shale		4"	143' 6"	326.5'	
Broken Coal		4"	143' 10"	326.2'	
Shale		1' 0"	144' 2"	325.9'	
Broken Coal		8"	145' 2"	324.9'	
Sandstone		3"	145' 10"	324.2'	
Coal		1"	146' 1"	323.9'	
Shale		1"	146' 2"	323.8'	
Coal		2"	146' 3"	323.7'	
			146' 5"	323.6'	" 31 st "
Broken Sandstone		54' 7"			June 1 st ..
Broken Shale		3' 0"	201' 0" 204' 0"	269.0' 266.0'	" 2 nd "
Broken Sandstone		8' 0"			
Broken Shale		1' 0"	212' 0"	258.0'	
Broken Coal		8"	213' 0"	257.0'	
Broken Shale		1' 4"	213' 8" 215' 0"	256.4' 255.0'	
Broken Sandstone		26' 6"			" 3 rd "
Broken Coal		4"	241' 6"	228.5'	
Mud		6"	241' 10" 242' 4"	228.2' 227.7'	" 4 th "
Trap		20' 8"			" 6 th "
			263' 0"	207.0	" 7 th "

CANADIAN COLLIERIES (DUNSMUIR) LIMITED

BORE HOLE N° 158

COMOX FIELD

Scale: - 1" = 20'

NELSON DISTRICT

CX-158

694

M6

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV. 474. ABOVE H.W.M. AT UNION BAY	DATE
Soil		2' 0"	2' 0"	472.0'	
Hard brown Clay		4' 0"	6' 0"	468.0'	June 15 th 21
Boulders & Gravel		1' 0"	7' 0"	467.0'	
Sandstone		13' 0"			" 15 th "
			20' 0"	454.0'	
Broken Sandstone		18' 0"			" 17 th "
			38' 0"	436.0'	
Sandstone		61' 8"			" 18 th "
					" 20 th "
Shale		4"	93' 8"	374.3'	
Boney Coal		3"	100' 0"	374.0'	
Shale		2' 3"	100' 3"	373.8'	
Coal		8"	103' 0"	371.0'	
Boney Coal		4"	103' 8"	370.3'	
			104' 0"	370.0'	
					" 21 st "
Sandstone		56' 6"			
					" 22 nd "
Shale		6"	160' 6"	313.5'	
Broken Coal		6"	161' 0"	313.0'	
Broken Shale		1' 4"	161' 6"	312.5'	
Broken Coal		1' 6"	162' 10"	311.2'	
Broken Shale		10"	164' 4"	309.7'	
Coal		2"	165' 2"	308.9'	
Broken Shale		8"	165' 4"	308.7'	
Broken dirty Coal		6"	166' 0"	308.0'	
Broken Shale		1' 0"	166' 6"	307.5'	
			167' 6"	306.5'	" 23 rd "
Sandstone		49' 6"			" 24 th "
Sandy Shale		3' 0"	217' 0"	257.0'	
			220' 0"	254.0'	" 25 th "
Sandstone		24' 8"			
Broken Shale		1' 8"	244' 8"	239.3'	
Dirty Coal		1' 4"	246' 4"	227.6'	
Shale		2' 6"	247' 8"	226.3'	
Coal		4"	250' 2"	223.8'	
Broken Shale		4"	250' 8"	223.3'	
Coal		1' 4"	251' 0"	223.0'	" 27 th "
Shale		8"	252' 4"	221.9'	
Coal		3' 0"	253' 0"	221.0'	
			256' 0"	218.0'	" 28 th "
Hard Sandstone		55' 6"			" 29 th "
Broken Coal		1' 0"	311' 6"	168.5'	
Broken Shale		6' 6"	312' 6"	161.5'	
Coal		1' 4"	319' 0"	155.0'	
			320' 4"	153.7'	
Broken Shale		13' 8"			
Layers of Shale & Bone		2' 0"	334' 0"	140.0'	
Trap		6' 0"	336' 0"	138.0'	
			342' 0"	132.0'	" 30 th "

CANADIAN COLLIERIES (DUNSMUIR) LIMITED

CX-159

BORE HOLE N^o 159

COMOX FIELD

Scale:- 1"=20'

694

M7

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV. ABOVE H.W.M. AT UNION BAY	DATE
Sand, Gravel & Clay		8' 0"	8' 0"	461.0'	July 6 th 1921
Shale		7' 0"	15' 0"	454.0'	" 7 th "
Brkn Sandy Shale		9' 0"	24' 0"	445.0'	
Dirty Coal		3"	24' 3"	444.7'	
Brkn Sandy Shale		33' 9"			" 8 th "
			58' 0"	411.0'	
Brkn Sandstone		21' 0"			
Brkn Shale & Coal		1' 0"	79' 0" 80' 0"	390.0' 389.0'	" 9 th "
					" 11 th "
Broken Sandstone		125' 7"			" 12 th "
					" 13 th "
Broken Shale		4"	205' 7"	263.4'	
Broken Boney Coal		1' 10"	205' 11"	263.1'	
Broken Shale		10"	207' 9"	261.3'	
			208' 7"	260.5'	" 14 th "
Broken Sandstone		77' 7"			" 15 th "
Broken Coal		8"	286' 2" 286' 10"	182.9' 182.2'	" 16 th "
Broken Sandstone		46' 2"			" 18 th "
					" 19 th "
					" 25 th "
Broken Coal		8"	333' 0" 333' 8"	136.0' 135.3'	
Broken Shale		14' 10"			" 26 th "
Broken Coal		1' 6"	348' 6" 350' 0"	120.5' 119.0'	
Black Shale		7' 0"			
Trap		9' 0"	357' 0"	112.0'	
			366' 0"	103.0'	" 27 th "

CANADIAN COLLIERIES (DUNSMUIR) LTD.

BORE HOLE N°160

COMOX FIELD

Scale 1" = 20'

CX-160

694

MS

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV. ABOVE H.W.M. AT UNION BAY	DATE
Saif		4'-0"	4'-0"	489.2	
					Aug. 3 rd 21
Sandstone		80'-6"			4 th
Coal & Sandstone Shale Coal (dirty) Black Sandstone		1'-0" 1'-0" 1'-0" 6"	84'-6" 85'-6" 86'-6" 87'-6" 88'-0"	408.7 407.7 406.7 405.7 405.2	
Sandstone		59'-0"			5 th
Broken Coal Shale		1'-0" 3'-0"	147'-0" 148'-0" 151'-0"	346.2 345.2 342.2	6 th
Sandstone		77'-0"			7 th
Shale Dirty Coal Black Shale Dirty Coal Broken Shale Coal Shale Broken Coal Sandstone & Sulphur Coal		4'-6" 1'-0" 6'-0" 1'-0" 1'-6" 1'-2" 2'-0" 8" 1"	228'-0" 232'-6" 233'-6" 239'-5" 240'-6" 241'-0" 241'-6" 242'-8" 244'-8" 245'-4" 245'-5"	265.2 260.7 259.7 253.7 252.7 252.2 251.7 250.6 248.6 247.9 247.8	8 th
Sandstone		50'-3"			9 th
Coal Shale Coal		4" 5'-0" 7"	295'-8" 296'-0" 301'-0" 301'-7"	197.5 197.2 192.2 191.6	
Shale		12'-5"			
Coal Shale Dirty Coal Shale Coal Shale Coal Shale Coal Shale Black Shale Coal Shale		10" 8'-8" 2" 4" 1'-10" 1'-2" 1'-0" 1'-2" 1'-0" 6" 8" 4'-10"	314'-0" 314'-0" 323'-6" 323'-8" 324'-0" 325'-10" 327'-0" 328'-0" 328'-2" 329'-2" 329'-4" 329'-10" 330'-6" 331'-2" 336'-0"	179.2 178.3 169.7 169.5 169.2 167.3 166.2 165.2 165.1 164.1 163.9 163.4 162.7 162.0 157.2	10 th
Sandstone		26'-4"			11 th
Shale & Bone Broken Sandstone Coal Broken Shale		8" 3'-0" 5" 5'-7"	362'-4" 363'-0" 366'-0" 366'-5" 372'-0"	130.9 130.2 127.2 126.8 121.2	12 th
Sandstone		32'-0"			
			404'-0"	89.2	13 th
Trap		21'-0"			
			425'-0"	68.2	14 th

CANADIAN COLLIERIES (DUNSMUIR) LTD

CX-24

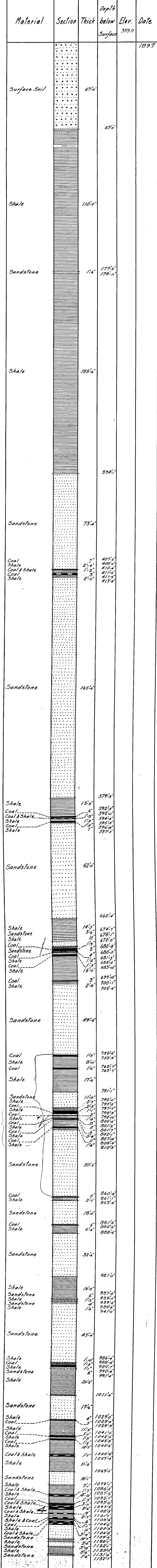
PROSPECT HOLE N° 24.

COMOX DISTRICT

694

(L1)

SCALE - 1" = 20'



CANADIAN COLLIERIES (D) LTD
BORE HOLE N° 23
COMOX FIELD
 Scale: 1" = 20'

CX-23
 694
 (L2)

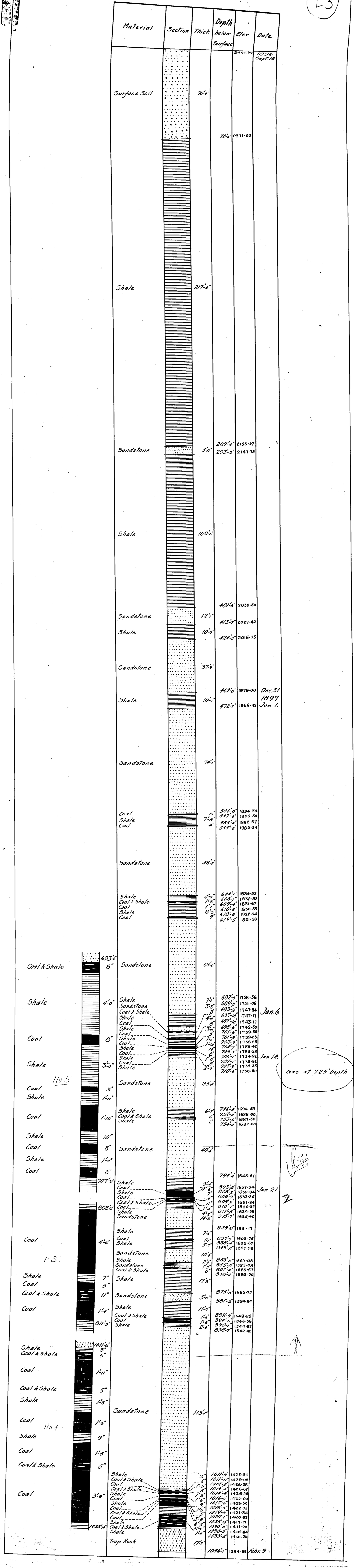
MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV ABOVE H.W.M. AT UNION BAY 485.0 (Approx)	DATE
Surface		80' 0"	80' 0"	2405.0	June 14, 1897
Sandstone		45' 5"			
Shale		5' 3"	125' 5"	2359.6	
			130' 8"	2364.4	
Sandstone		27' 7"			
Coal		2' 1"	158' 3"	2326.8	
Coal & Shale		1' 7"	160' 11"	2324.1	
Coal		1' 6"	162' 5"	2322.6	
Shale		4' 4"	166' 9"	2318.3	
Coal		1' 3"	168' 0"	2317.1	
Shale		2' 10"	170' 10"	2314.3	
Sandstone		29' 2"			
Shale		5' 0"	200' 0"	2285.1	
			205' 0"	2290.1	
Sandstone		17' 9"			
Shale		7"	222' 9"	2262.2	
Coal		1' 11"	223' 2"	2261.6	
Shale		3' 2"	225' 3"	2259.7	
Coal		1' 0"	228' 5"	2256.5	
Shale		2' 0"	229' 5"	2255.5	
			231' 5"	2253.5	
Sandstone		15' 3"			
Shale			246' 8"	2231.3	
Shale		27' 5"			
Coal		6"	274' 1"	2210.3	
Shale		1'	274' 7"	2210.4	
Coal		1' 2"	274' 8"	2210.3	
Shale		12' 10"	275' 10"	2209.1	
			288' 8"	2196.3	
Sandstone		19' 10"			
Shale			308' 6"	2176.5	
			319' 2"	2165.8	
Sandstone		51' 10"			
Shale			371' 0"	2114.0	
Shale		21' 4"			
Coal		1' 3"	392' 4"	2022.7	
Shale			393' 7"	2021.5	
Shale		13' 3"			
Sandstone		6"	406' 10"	2071.3	
Shale		2' 4"	407' 4"	2071.3	
			409' 8"	2075.5	
Sandstone		69' 4"			
Shale			479' 0"	2006.2	
Shale		27' 2"			
Coal Boney		1' 0"	506' 2"	1979.0	
Shale		1' 5"	507' 4"	1977.9	
Coal		1' 3"	509' 10"	1975.3	
Shale		10"	511' 0"	1974.1	
Coal		6' 1"	517' 1"	1968.0	
Shale		2' 7"	519' 8"	1965.3	
Coal Boney		10"			
Shale		1' 10"	522' 8"	1962.3	
Coal Boney		1' 2"			
Shale		2' 4"	527' 0"	1958.0	
Coal		10"	528' 3"	1956.8	
Shale		1' 10"	532' 6"	1952.6	
Coal		2' 4"			
Shale		2"	533' 7"	1951.5	
Coal Boney		5' 0"	544' 6"	1940.6	
Coal		3' 11"	547' 11"	1932.2	
Shale		8' 5"			
Trap		5' 10"	558' 9"	1926.4	

CANADIAN COLLIERIES (DUNSMUIR) L

PROSPECT HOLE No 22. COMOX DISTRICT

SCALE - 1" = 20'

694
L3



Nelson District
DL.24

CANADIAN COLLIERIES (DUNSMUIR) LTD.

**PROSPECT HOLE N° 21.
COMOX DISTRICT**

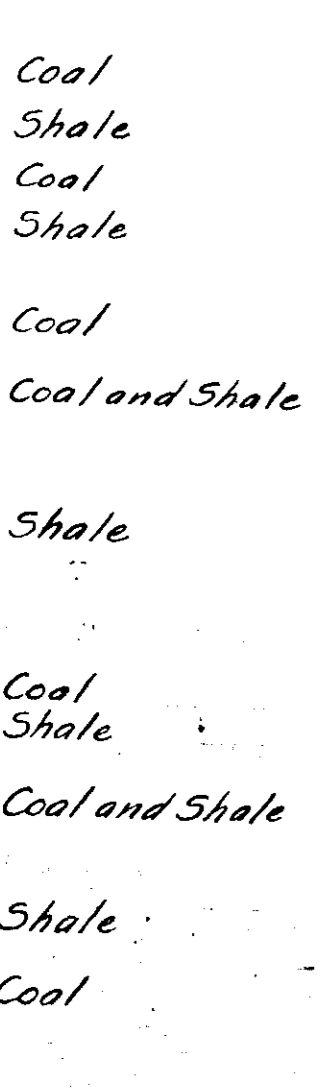
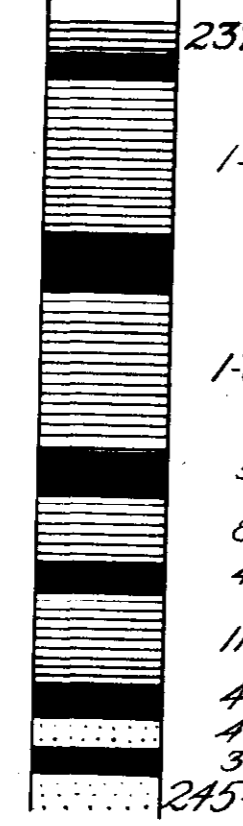
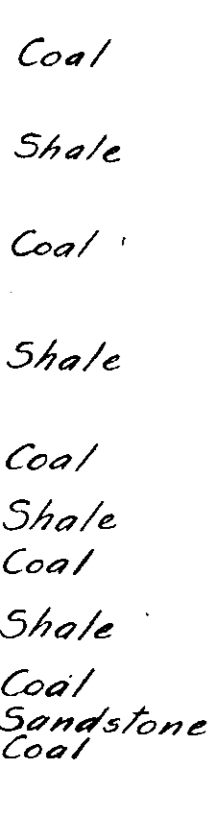
SCALE - 1" = 20'

CX-21

694

L4

Material	Section	Thick	Depth below Surface	Elev.	Date
Surface Soil		31'-0"		2445.00	
Shale		25'-4"	31'-0"	2414.00	
Sandstone		24'-6"	56'-4"	2388.67	
Shale		3'-10"	80'-10"	2364.17	
Coal		8"	84'-8"	2360.34	
Shale		5"	85'-4"	2359.67	
			85'-9"	2359.25	
Sandstone		99'-1"			
Coal		6"	184'-10"	2260.17	
			185'-4"	2259.67	
Sandstone		51'-2"			
Shale		1'-3"	236'-6"	2208.50	
Coal		3"	237'-9"	2207.25	
Shale		7'-8"	238'-0"	2207.00	
Coal		7"	239'-0"	2205.34	
Shale		7'-8"	240'-3"	2204.75	
Coal		5"	241'-11"	2203.08	
Shale		8"	242'-4"	2202.67	
Coal		4"	243'-0"	2202.00	
Shale		11"	243'-4"	2201.67	
Coal		4"	244'-3"	2200.75	
Sandstone		4"	244'-7"	2200.42	
Coal		3"	244'-11"	2200.08	
			245'-2"	2199.84	
Sandstone		78'-10"			
Coal and Shale		1'-6"	324'-0"	2121.00	
			325'-6"	2119.50	
Shale		13'-8"			
Coal		2'-9"	339'-8"	2105.84	
Shale		6'-6"	341'-11"	2105.08	
			348'-5"	2096.58	
Sandstone		64'-6"			
Shale		2'-0"	412'-11"	2032.08	
Coal		1'-5"	414'-11"	2030.08	
Shale		2'-9"	416'-2"	2028.84	
Coal		1'-4"	418'-11"	2026.08	
			420'-3"	2024.75	
Shale		28'-8"	449'-0"	1996.00	
Coal		3"	449'-3"	1995.75	
Shale		10"	450'-1"	1994.92	
Coal		10"	450'-4"	1994.67	
Shale		1'-2"	451'-2"	1993.84	
Coal & Shale		4"	452'-4"	1992.67	
Shale		2'-8"	452'-0"	1992.34	
Coal		6"	453'-4"	1989.67	
Shale		3"	455'-10"	1989.17	
Coal & Shale		1'-5"	456'-1"	1988.92	
Shale		1'-0"	457'-6"	1987.50	
Coal		7"			
Shale		5'-6"	459'-1"	1985.92	
Sandstone		15'-2"	464'-7"	1980.42	
Shale		1'-9"	479'-9"	1965.26	
Sandstone		3'-5"	481'-6"	1963.50	
Shale		1'-0"	484'-11"	1960.08	
Coal		11"	485'-11"	1959.08	
Sandstone		2'-0"	486'-10"	1958.17	
Coal			488'-10"	1956.17	
Sandstone		53'-2"			
Coal		3"	449'-0"		
Shale		10"			
Coal		3"	542'-0"	1903.00	
Shale		10"			
Coal		3"	553'-0"	1891.34	
Shale		10"	556'-8"	1889.34	
Coal		1'-2"	557'-0"	1888.00	
Coal and Shale		4"	557'-0"	1887.34	
Shale		2'-8"	577'-7"	1867.42	
Sandstone		17'-3"	580'-1"	1864.92	
Shale		6"	597'-4"	1847.67	
Shale		3"	598'-4"	1846.67	
Coal and Shale		1'-5"			
Shale		1'-0"	619'-0"	1826.00	
Coal		7"	620'-4"	1824.67	
			621'-9"	1823.25	
			623'-4"	1821.67	
			624'-0"	1820.34	
Trap Rock		20'-6"			
			645'-2"	1799.84	



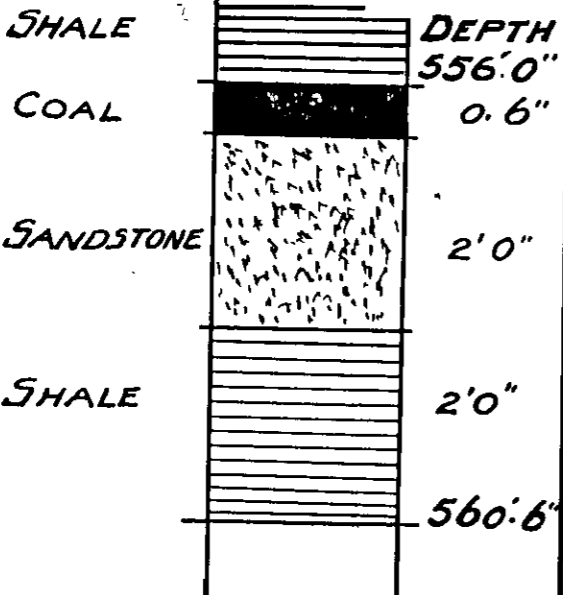
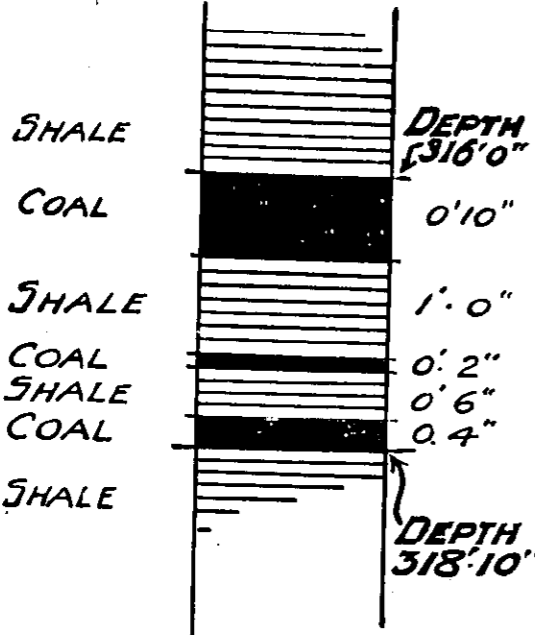
PROSPECT HOLE No 131

COMOX DISTRICT

SCALE 1" = 20'

694

(41)



MATERIAL	SECTION	THICK-NESS	DEPTH BELOW SURFACE	ELEVATION	DATE 1914.
Surface Drift.		5' 0"	5' 0"	2408.28	
Compressed Clay				2403.3	3 SEPT.
Coarse Gravel Sandstone		16' 0"	21' 0"	2387.3	5 "
		3' 9"	24' 9"	2383.6	0 "
		1' 0"	25' 9"	2382.6	7 "
Hard Sandstone					
		18' 0"	43' 9"	2364.6	
Sandstone.					
		21' 0"	64' 9"	2343.6	
Shale					9 "
		15' 0"	79' 9"	2328.6	
					10 "
Sandstone.					
					11 "
Shale		136.3	216' 0"	2198.4	
Coal		2' 0"	218' 0"	2190.4	
		4'	218' 4"	2190.1	
Sandstone					12 "
		59' 8"	278' 0"	2180.4	
Shale.					
Sandstone.		7' 0"	285' 0"	2183.4	
		7' 0"	292' 0"	2116.4	13 "
Shale					
Coal		24' 0"	316' 0"	2093.4	
Shale		19'	315' 0"	2091.4	
Coal		2'	317' 0"	2090.4	
Shale		2'	319' 0"	2089.4	
Coal		2'	318' 6"	2089.7	
Shale		11' 2"	330' 0"	2076.4	14 "
Shaley Sandstone					
		37' 0"	367' 0"	2041.4	15 "
Shale.		5' 0"	372' 0"	2036.4	
Sandstone		4' 0"	376' 0"	2032.4	
					16 "
Shale					
					17 "
		45' 0"	421' 0"	1987.4	
Sandstone.					
					18 "
		67' 6"	488' 0"	1920.4	
Shale		4' 0"	492' 0"	1916.4	
Coal		8"	492' 8"	1915.7	
					19 "
Shale					
		26' 10"	519' 6"	1888.9	
Sandstone					20 "
		26' 6"	546' 0"	1862.4	
Shale.					
Coal		10' 0"	556' 0"	1853.4	
Sandstone		6'	556' 6"	1851.9	
Shale		2' 0"	558' 6"	1849.9	
Sandstone.		7' 0"	560' 6"	1847.9	21 "
Shale		2' 0"	565' 0"	1840.4	
			570' 0"	1838.4	
Sandstone.					
		13' 0"	583' 0"	1825.4	
Shale					
Coal		14' 0"	597' 0"	1811.4	22 "
Trap Shale		1' 0"	602' 0"	1809.8	
Trap Rock.		3' 6"	602' 1"	1806.8	23 "

CANADIAN COLLIERIES (DUNSMUIR) LTD.

PROSPECT HOLE No 132

COMOX DISTRICT

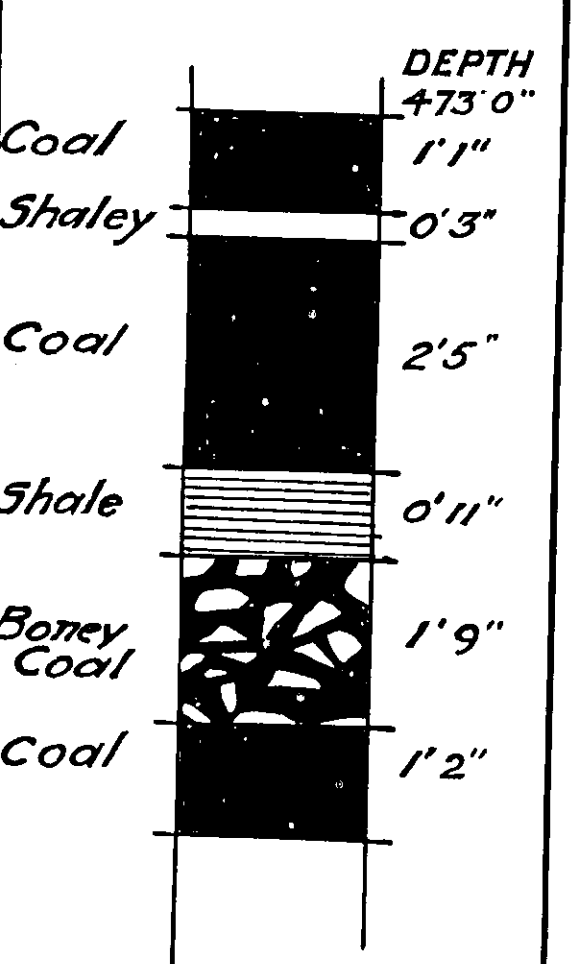
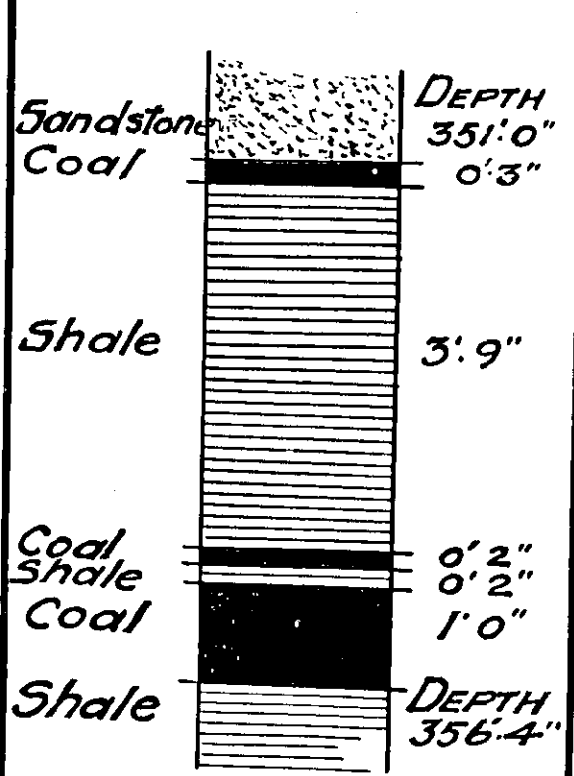
SCALE 1" = 20'

CX-132

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MATERIAL	SECTION	THICK-NESS	DEPTH BELOW SURFACE	ELEVATION	DATE
				1914.	
Surface Drift		4'0"	4'0"	2433.8	29 Sept.
Hard Pan		6'0"	10'0"	2429.8	4 Oct
Coarse Gravel				2423.8	5 Oct
					6 Oct
					7 "
Sand		1'0"	24'0"	2409.8	8 "
Coarse Gravel		1'0"	25'0"	2408.8	9 "
Hard Pan		4'0"	29'0"	2404.8	10 "
		3'0"	32'0"	2401.8	13 "
Clay & Boulders		7'0"	39'0"	2394.8	15 "
Gravel Clay "		2'6"	41'6"	2392.3	16 "
Hard Pan.		3'0"	44'6"	2389.3	17 "
Sandstone.					18 "
		93'6"	138'0"	2295.8	19 "
Shaley Sandstone		21'0"	159'0"	2274.8	
Shale					20 "
Coal		23'0"	182'0"	2251.8	
Sh		2'0"	184'0"	2251.8	
		4'10"	187'0"	2246.8	
Sandstone.					
Coal		5'0"	217'0"	2216.8	21 "
Shale		5'0"	218'0"	2215.8	
Sandstone.		8'0"	229'0"	2204.8	
Shale					22 "
		35'0"	264'0"	2169.8	
Sandstone.					23 "
		52'0"	316'0"	2117.8	
Hard Sandstone					
		20'0"	336'0"	2097.8	24 "
Sandstone					
Coal		15'0"	351'0"	2082.8	
Shale		3'9"	355'0"	2078.9	
Coal		3'0"	358'0"	2078.9	
Shale		2'0"	360'0"	2078.5	
Coal.		1'0"	361'0"	2077.5	
Shale					
Coal		16'0"	377'0"	2061.5	
Shale		9'0"	386'0"	2060.8	
Sandstone.		4'0"	390'0"	2056.8	25 "
Shale		1'6"	391'6"	2054.3	
Coal		1'11"	392'7"	2053.4	
Sandstone					
		25'6"	406'0"	2027.9	
Shaley Sandstone					26 "
Shale.		20'0"	426'0"	2007.9	
Coal.		1'6"	427'6"	2006.4	
		1'11"	428'7"	2005.5	
Sandstone with Shale bands					
		27'0"	455'0"	1978.5	27 "
Sandstone					
Coal		17'0"	472'0"	1960.9	
Shaley Coal		6'3"	478'3"	1959.9	
Coal		2'5"	480'8"	1959.7	
Shale		1'1"	481'9"	1957.2	
Boney Coal		1'9"	482'8"	1956.3	
Coal		1'3"	484'1"	1954.6	
Trap Rock		4'0"	488'1"	1953.7	
Trap Shale		6'0"	494'1"	1949.4	
Trap Rock.		9'3"	503'4"	1943.4	
					28 "



CANADIAN COLLIERIES (DUNSMUIR) LTD.

— PROSPECT HOLE No 133. —

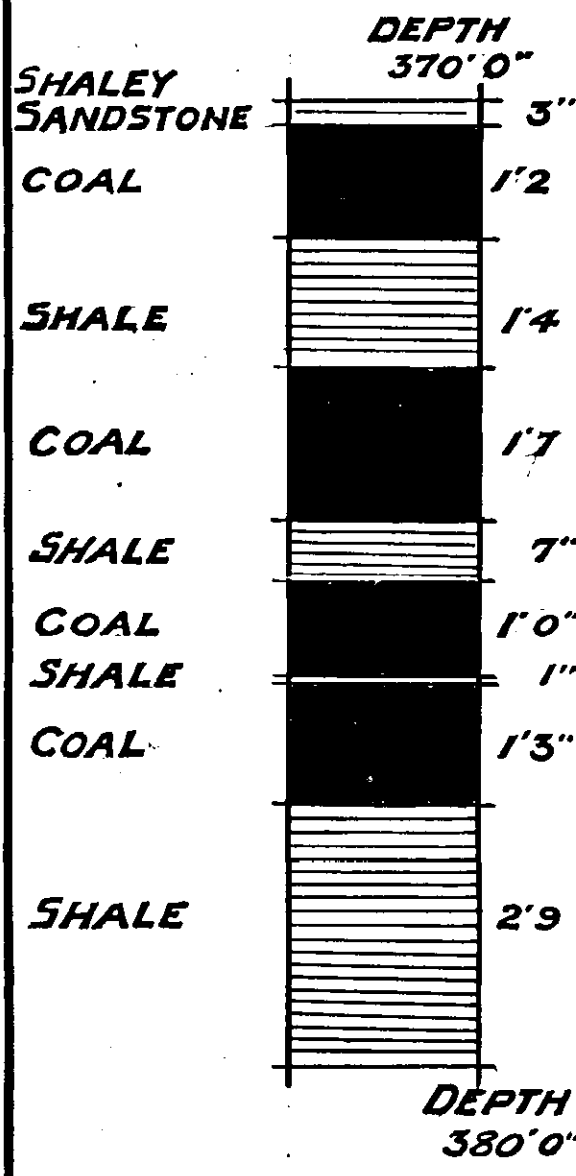
— COMOX DISTRICT —

SCALE 1"=20'

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L3

MATERIAL	SECTION	THICK- NESS	DEPTH BELOW SURFACE	ELEVA- TION	DATE
				2435	1914
SURFACE DRIFT		5'0"		2430.0	
COARSE GRAVEL		2'6"	7'6"	2427.5	1 Nov.
BLUE CLAY		13'6"	21'0"	2414.0	4
COARSE GRAVEL		12'6"	33'6"	2401.5	5
HARD PAN & BOULDERS		7'10"	41'4"	2393.7	6
HARD PAN WITH CLAY & SAND.		3'0"	44'4"	2390.7	7
HARD PAN.		2'0"	46'4"	2388.7	8
SANDSTONE		7'6"	54'0"	2381.2	9
SHALE.		0'8"	54'8"	2380.5	10
SANDSTONE					19 Nov.
SHALE		34'0"	88'6"	2346.5	
SHALEY SANDSTONE.		2'6"	91'0"	2344.0	
SANDSTONE.		13'0"	104'0"	2331.0	20 "
SHALE		56'0"	160'0"	2275.0	
COAL		3'0"	163'0"	2272.0	
SHALE.		0'8"	163'8"	2271.3	
COAL		8'4"	172'0"	2263.0	21 "
SHALE		0'2"	172'2"	2262.8	
COAL		14'0"	186'2"	2248.8	
SHALE		0'3"	186'5"	2248.5	
BONEY COAL		4'7"	191'0"	2243.9	
SHALE		7'3"	192'3"	2242.6	
SHALE		3'0"	195'3"	2239.7	
SANDSTONE.					22 "
SHALE.		39'0"	234'3"	2200.7	
SHALE.					23 "
SANDSTONE.		51'9"	286'0"	2149'0	
SHALEY SANDSTONE		68'0"	354'0"	2081.0	
SHALEY SANDSTONE		16'9"	370'0"	2065.0	25 Nov.
COAL		0'2"	370'2"	2064.7	
SHALE		0'2"	370'4"	2063.6	
SHALE		0'2"	370'6"	2062.2	
SHALE		0'2"	370'8"	2060.7	
SHALE		0'2"	371'0"	2060.1	
SHALE		0'2"	371'2"	2059.0	
SHALE		0'2"	371'4"	2058.9	
SHALE		0'2"	371'6"	2057.7	
SHALEY SANDSTONE		2'9"	374'0"	2055.0	
SHALEY SANDSTONE		32'0"	412'0"	2023.0	26 "
COAL		7'1"	413'1"	2021.9	
SANDSTONE.		6'0"	419'1"	2015.9	
SHALE		3'4"	422'5"	2012.5	
SANDSTONE.		9'0"	431'5"	2003.5	
SHALE		1'8"	432'1"	2002.9	
COAL		1'7"	433'2"	2001.2	
SANDSTONE		7'10"	441'0"	1994.1	27 "
COAL		2'6"	443'6"	1991.6	
SHALEY SANDSTONE		17'4"	460'10"	1974.3	28 "
SHALE (TRAP).					
TRAP ROCK.		18'0"	478'10"	1956.3	29 "
TRAP ROCK.		2'0"	480'10"	1954.3	



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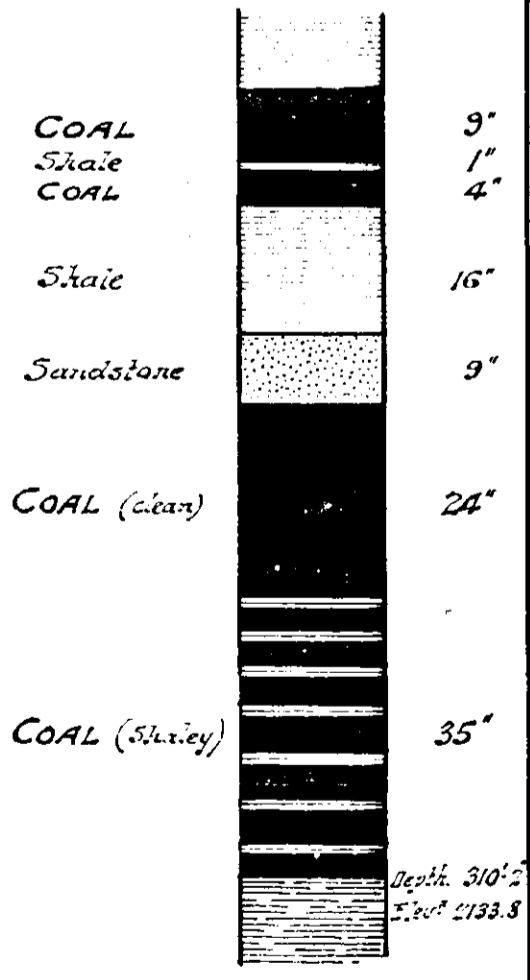
4

CANADIAN COLLIERIES (DUNSMUIR) LTD.
PROSPECT HOLE N^o 134
COMOX DISTRICT

SCALE - 1" = 20'

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEVATION	DATE
Surface Soil		3' 0"	3' 0"	2444.0 2431.0	
Compressed Clay		20' 0"			Dec. 10 th 1914
Hard Tan		2' 0"	23' 0"	2421.0	" 11 th "
Hard Tan and Gravel Wash		1' 6"	25' 0"	2419.0	" 12 th "
Gravel Wash		3' 6"	26' 6"	2417.5	" 13 th "
Coarse Gravel		4' 6"	30' 0"	2414.0	" 14 th "
Gravel Wash		3' 0"	34' 6"	2409.5	" 15 th "
			37' 6"	2406.5	" 16 th "
Sandstone		11' 6"			" 17 th "
Shaly Sandstone		4' 0"	49' 0"	2395.0	
			53' 0"	2391.0	
Shale		16' 0"			" 20 th "
			69' 0"	2375.0	
Shale Laminæ		21' 0"			
			90' 0"	2354.0	
Sandstone		92' 0"			" 21 st "
					" 22 nd "
			182' 0"	2262.0	
Shale		17' 0"			
			199' 0"	2245.0	
COAL		1' 1"	200' 1"	2243.9	
Sandstone		36' 0"			Jan. 31 st 1915
			236' 1"	2207.9	
Shale		65' 11"			" 4 th "
					" 5 th "
			302' 0"	2142.0	
			302' 9"	2141.3	
			303' 10"	2141.3	
			303' 2"	2140.8	
			304' 6"	2139.5	
			305' 5"	2138.8	
			307' 5"	2138.8	
			310' 2"	2133.8	
Shale		9' 1"	0' 9"		
COAL		1' 4"	0' 4"		
Shaly Sandstone		2' 0"	0' 5"		
COAL		2' 11"	2' 11"		
Trap Shale (Fireclay)		12' 4"			
			322' 6"	2121.5	" 6 th "
Trap Conglomerate		55' 6"			" 7 th "
Granite		6' 0"	378' 0"	2066.0	
			384' 0"	2060.0	" 8 th "

SECTION OF LOWER SEAM
 SCALE - 1/2" = 1'



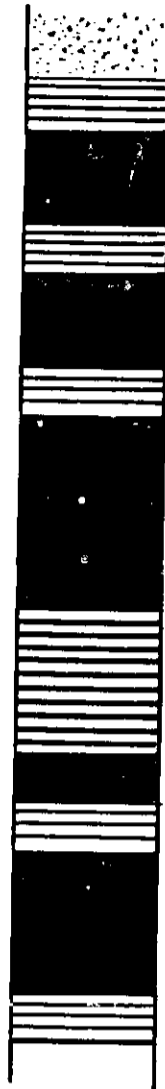
CANADIAN COLLIERIES (DUNSMUIR) LTD
PROSPECT HOLE N^o 135
COMOX FIELD

CX-135
694
 (25)

SCALE - 1" = 20'

Upper Seam

Sandstone
 Shale
 Coal
 Shale
 Coal
 Shale
 Coal
 Shale
 Coal
 Shale
 Coal
 Shale
 Coal
 Shale

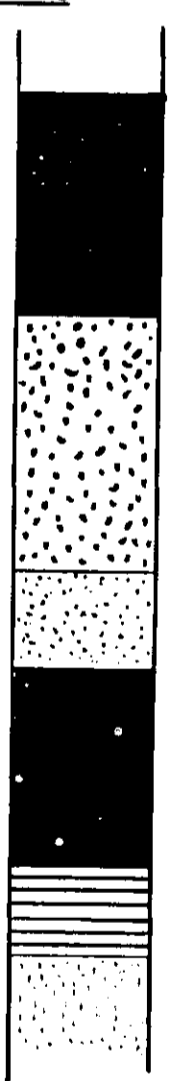


Depth
 33-6
 1-0
 0-6
 1-0
 0-6
 2-0
 1-6
 0-6
 0-6
 1-6
 42-6

Material	Section	Thick	Depth below Surface	Elev.	Date
Surface Soil		6-0	0-0	2461.00	1916
Sandstone		20-6	6-0	2455.00	June 5 th
Black Shale		5-6	26-6	2434.50	
Sandstone		5-6	32-0	2429.00	" 9 th
Shale		1-0	33-0	2428.00	
Coal		1-0	34-0	2427.50	
Shale		1-0	35-0	2426.50	
Coal		1-0	36-0	2426.00	
Shale		1-0	37-0	2425.00	
Coal		1-0	38-0	2424.50	
Shale		1-0	39-0	2424.00	
Coal		1-0	40-0	2423.50	
Shale		1-0	41-0	2422.50	
Coal		1-0	42-0	2421.00	
Shale		1-0	43-0	2420.50	
Coal		1-0	44-0	2420.00	
Shale		1-0	45-0	2418.50	
Sandy Shale		7-0	46-0	2418.00	" 12 th
Sandstone		44-0	50-0	2411.00	
Shale		8-0	94-0	2367.00	" 21 st
Coal		1-0	94-8	2366.34	
			94-9	2366.25	
Shale		41-3			
Coal		2-4	136-0	2325.00	" 24 th
Granite		2-8	138-4	2322.67	
Sandstone		1-0	141-0	2320.00	
Coal		1-0	142-0	2319.00	" 26 th
Shale		2-1	144-1	2316.92	
Sandstone		1-0	145-0	2316.00	
			146-0	2315.00	
Shale		24-0	170-0	2291.00	
Sandstone		1-0	171-0	2290.00	" 27 th
Shale		7-0	178-0	2283.00	
Sandstone		4-0	182-0	2279.00	" 28 th
Shale		1-0	183-0	2278.00	
Coal		1-0	183-1	2277.92	
Shale		2-11	186-0	2275.00	
Sandstone		1-0	187-0	2274.00	
Shale		2-0	189-0	2272.00	
Sandstone		2-0	189-6	2271.50	
Shale		2-6	192-0	2269.00	" 29 th
Sandstone		8-0	200-0	2261.00	
Shale		4-0	204-0	2257.00	
Sandstone		1-0	205-0	2256.00	
Shale		2-0	207-0	2254.00	
Sandstone		4-6	211-6	2249.50	
Shale		5-0	216-6	2244.50	" 30 th
Sandstone		6-0	217-0	2244.00	
Shale		20-0			
Sandstone		5-0	237-0	2224.00	July 4 th
Shale		16-0	242-0	2219.00	
			258-0	2203.00	
Trap Rock		17-0	275-0	2186.00	" 6 th

Lower Seam

Shale
 Coal
 Granite
 Sandstone
 Coal
 Shale
 Sandstone



Depth
 136-0
 2-4
 2-8
 1-0
 2-1
 1-0
 2-11
 1-0
 2-0
 2-6
 8-0
 4-0
 1-0
 2-0
 4-6
 5-0
 6-0
 144-1

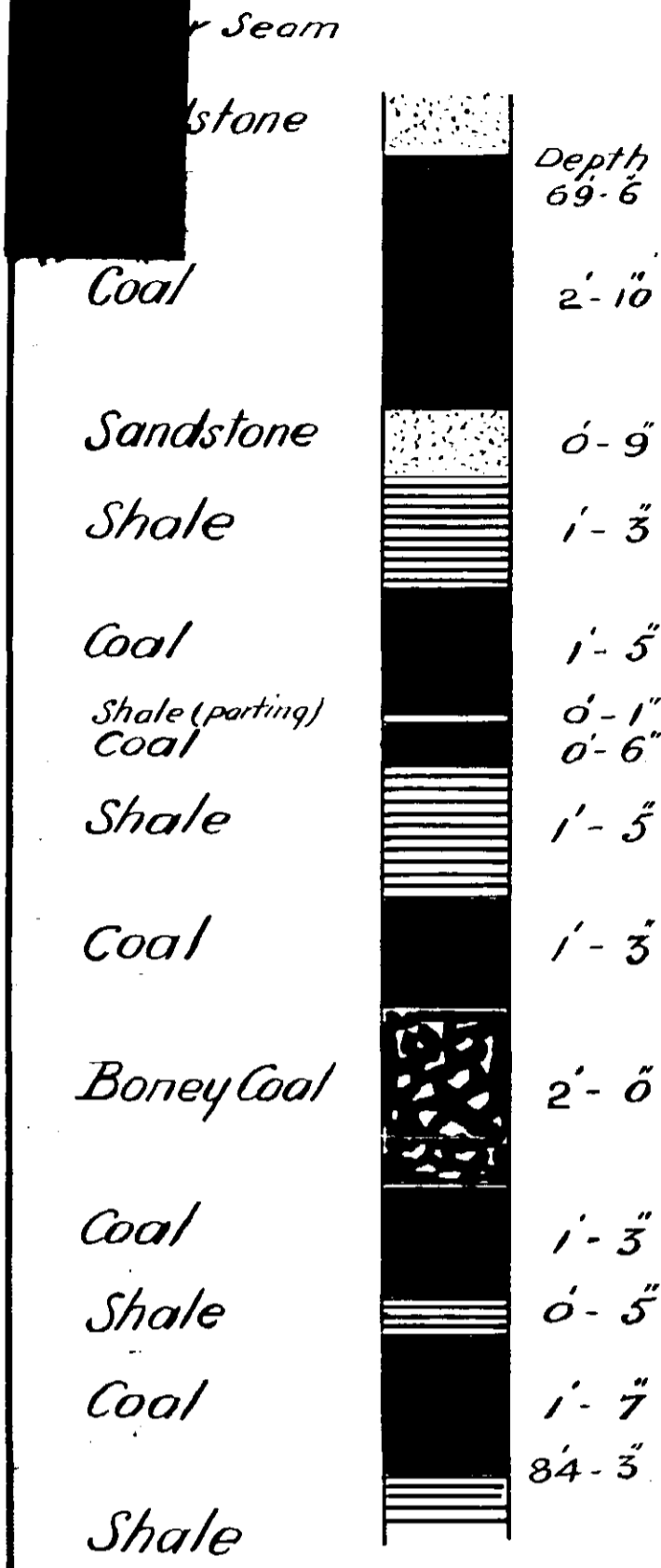
CANADIAN COLLIERIES (DUNSMUIR) LTD
PROSPECT HOLE N^o 136
COMOX FIELD

CX-136

694

(L6)

SCALE - 1" = 20'



Material	Section	Thick	Depth below Surface	Elev	Date
					1916
Soil		7-0	0'-0"	2500-00	July 17 th
			7-0	2493-00	
Sandstone		18-6			
Shale		6-0	25-6	2474-50	" 18 th
Coal			31-6	2468-50	
Shale (parting)					
Coal					
Shale		38-0			
Coal		2-10	69-6	2430-50	" 20 th
Sandstone		0-9	72-4	2427-67	
Shale		1-3	73-7	2426-92	
Coal		1-5	74-4	2425-67	
Shale		0-1"	75-9	2424-75	
Coal		0-6"	75-10	2424-17	
Shale		1-5	76-4	2423-67	
Coal		1-3	77-9	2422-25	
Boney Coal		2-0	79-0	2421-00	
Coal		1-3	81-0	2419-00	
Shale		0-5	82-3	2417-75	
Coal		1-7	82-8	2417-34	
Shale		7-10	84-3	2415-75	
Sandstone		1-2	92-1	2407-92	
			93-3	2406-75	
Shale		18-9			
Coal			112-0	2388-00	
Shale		84-3			
Sandstone		29-0			
Coal		0-7"	141-0	2359-00	" 22 nd
Shale		1-7"	141-7	2358-42	
Boney Coal		1-2"	143-2	2356-84	
Shale		2-8"	144-4	2355-67	
Coal		1-9"	147-0	2353-00	
Sandstone		3-8"	148-9	2351-25	
Shale		6-7"	152-5	2347-58	
			159-0	2341-00	
Lower Seam					
Sandstone		55-0			
Coal					
Shale					
Boney Coal					
Shale		3-6	214-0	2286-00	" 25 th
Sandstone		2-2	217-6	2282-50	
Shale		1-4	219-8	2280-34	
Sandstone		3-0	221-0	2279-00	
			224-0	2276-00	
Shale		44-0			
Coal					
Sandstone		0-6	268-0	2232-00	" 27 th
Coal		1-1	268-6	2231-50	
Shale		2-0	268-7	2231-42	
Shaley Sandy Coal		2-0	269-0	2231-00	
Shale		12-0	271-8	2229-00	
			283-0	2217-00	
Traprock		22-0			
			305-0	2195-00	" 28 th

CANADIAN COLLIERIES (DUNSMUIR) LTD
PROSPECT HOLE N^o137
COMOX FIELD

CX-137
694
 (47)

SCALE: 1"=20'

Material	Section	Thick	Depth below Surface	Elev.	Date	
Surface Soil		11'-0"	11.0	2655.0	1916 Aug. 19.	
Conglomerate		77'-0"		2644.0		
			88.0	2567.0		
Granite		16'-0"		2551.0		
Conglomerate		10'-10"	104.0	2554.2		
Shale		6'-2"	114.8	2534.0	Aug. 23	
Sandstone		64'-0"				
			185.0	2470.0	Sep. 4	
Boney Coal		1'-4"	186.3	2468.7		
Shale		18'-2"				
Coal		1'-0"	204.5	2450.5		
Black Shale		7'-6"	205.5	2449.5		
Sandstone		69'-0"		213.0	2442.0	Sep. 5
Shale		20'-9"		282.0	2373.0	Sep. 7.
				302.7	2352.3	
Boney Coal		6"	303.3	2351.7		
Shale		1'-6"	304.7	2350.3		
Coal		3"	305.0	2350.0		
Shale		2"	305.2	2349.8		
Boney Coal		10"	306.0	2349.0		
Black Shale		1'-5"	307.4	2347.6	Sep. 8.	
Conglomerate		19'-1"	326.5	2328.5		
Shale		2'-11"				
Sandstone		14'-5"	329.4	2325.6		
Shale		4"	343.0	2311.2		
Sandstone		9'-1"	344.2	2310.8	Sep. 10	
Mud		1'-6"	353.3	2301.7		
Sandstone		10'-9"	354.8	2300.2		
Shale		6"	365.5	2289.5		
Sh. & Sandst.		7'-0"	366.0	2289.0		
Shale		1'-9"	373.0	2282.0		
Coal		1'-1"	374.8	2280.2		
Shale		6'-10"	375.8	2279.2		
Coal		1'	382.7	2272.3		
Shale		1'-3"	382.8	2272.2		
Shale & Sandstone		23'-0"	384.0	2271.0	Sep. 12	
Sandstone		11'-0"		407.0	2248.0	
				418.0	2237.0	
Shale		5"	418.4	2236.6		
Sandstone		1'-2"	419.7	2235.3		
Shale		10"	420.4	2234.6		
Sandstone		4'-10"	425.3	2229.7		
Sandst. & Shale		15'-9"	441.0	2214.0		
Sandstone		1'-1"	442.1	2212.9	Sep. 14	
Shale		18'-11"	461.0	2194.0		
Sandstone		1'-0"	462.0	2193.0		
Shale & Coal		1'-8"	463.7	2191.3		
Bl. Sandstone		1'-9"	465.4	2189.6		
Bl. Shale		7"	466.0	2189.0		
Sandstone		4'-0"	470.0	2185.0		
Shale		14'-6"	484.5	2170.5		
Boney Coal		2"	484.7	2170.3		
Bl. Shale		1'-2"	485.8	2169.2		
Sandstone		3'-2"	489.0	2166.0		
Shale		8'-0"	497.0	2158.0		
Agglomerate		19'-0"				
Trap		5'-0"		516.0	2139.0	
				521.0	2134.0	Sep. 19

Bore caved Aug. 24 at 113' Depth causing a delay of 10 days.

CANADIAN COLLIERIES (DUNSMUIR) LTD
PROSPECT HOLE N^o 138
COMOX FIELD

Comox District
 Sec. 8, Twp. 9
 CX-138

694
 (L8)

SCALE - 1" = 20'

Material	Section	Thick	Depth below Surface	Elev.	Date
Surface Soil		9'-0"	9'-0"	2668.0	1916 Sept. 25
Conglomerate		294'-2"			
Boney Coal		0'-8"	303'-2"	2373.8	Nov. 23
Slate		10'-0"	303'-10"	2373.2	
Sandstone			313'-10"	2363.2	
Boney Coal		11'-6"	325'-4"	2351.7	
Coal		4'-0"	329'-4"	2347.7	
Boney Coal		2'-0"	331'-4"	2345.7	
		3'-0"	334'-4"	2342.7	
Sandstone		36'-0"			
			370'-4"	2306.7	
Slate		12'-0"	382'-4"	2294.7	
Boney Coal		0'-6"	382'-10"	2295.2	
Coal		0'-6"	383'-6"	2293.7	
Slate		5'-6"	388'-10"	2288.2	
Boney Coal		0'-6"	389'-4"	2287.7	
Sandy Slate		13'-0"	403'-0"	2274.0	
Sandstone		23'-0"			
			426'-0"	2251.0	
Slate		10'-0"	436'-0"	2241.0	
Mud		6'-0"	442'-0"	2235.0	
Sandstone		1'-0"	443'-0"	2234.0	
Boney Coal		1'-0"	444'-0"	2233.0	
Slate		3'-0"	447'-0"	2230.0	
Sandstone		28'-0"			
			475'-0"	2202.0	
Boney Coal & Slate		3'-0"	478'-0"	2199.0	
Sandstone		10'-0"			
			488'-0"	2189.0	
Boney Coal & Slate		7'-0"	495'-0"	2182.0	
Sandstone		10'-0"			
			505'-0"	2172.0	
Slate		6'-0"	511'-0"	2166.0	
Sandstone		34'-0"			
			545'-0"	2132.0	
Conglomerate		21'-0"			
			566'-0"	2111.0	
Trap		19'-0"			
			585'-0"	2092.0	Dec. 23

Notes: This is granite (dacite) and not conglomerate
 Joseph Daniels
 Sept. 14, 1910

CANADIAN COLLIERIES (DUNSMUIR) LTD
PROSPECT HOLE N^o 139.
COMOX FIELD

694

(49)

Scale: 20' = 1"

Material	Section	Thick	Depth below Surface	Elev.	Date
Surface Soil		3'-0"	3'-0"	2563.0	1917
Sandstone		39'-0"		2560.0	June 26.
Shale		0'-8"	42'-0"	2521.0	
Coal		0'-6"			
Soft Shale		3'-10"			
" Coal		0'-6"			
" Shale		1'-0"			
Sandstone		0'-2"			
Soft Coal		0'-4"	49'-0"	2914.0	
Sandstone		70'-0"			
Shale		5'-0"	119'-0"	2444.0	June 30.
Sandstone		6'-0"	124'-0"	2439.0	
Shale		4'-7"	130'-0"	2433.0	
Coal		0'-3"	134'-7"	2428.4	
Sulphur		0'-1"			
Coal		0'-2"			
Sandstone		0'-1"			
Coal		0'-2"			
Shale		0'-6"			
Coal		0'-4"			
Shale		0'-2"			
Coal		0'-10"			
Shale		6'-6"	137'-2"	2425.0	
Coal		1'-0"	143'-0"	2419.3	
Shale		2'-8"	148'-0"	2415.0	
Sandstone		47'-0"			
Coal		1'-0"	195'-0"	2368.0	July 4
Shale		3'-4"			
Coal		0'-4"			
Shale		3'-4"	203'-0"	2360.0	
Sandstone		14'-0"			
			217'-0"	2346.0	
Shale		20'-4"			
Coal		0'-8"	237'-4"	2325.7	
Shale		0'-3"			
Coal		0'-10"			
Shale		1'-7"			
Coal		0'-6"			
Shale		1'-2"	242'-4"	2320.7	
Sandstone		35'-8"			
Shale		2'-0"	278'-0"	2285.0	July 7.
			260'-0"	2283.0	
Sandstone		58'-0"			
Shale		7'-6"	338'-0"	2225.0	July 11.
Coal		0'-9"	345'-6"	2217.5	
Shale		0'-2"			
Coal		0'-2"			
Sandstone		0'-5"			
Shale		0'-6"			
Coal		0'-10"			
Shale		7'-8"	348'-8"	2214.7	
			356'-0"	2207.0	
Sandstone		32'-0"			
Shale		4'-0"	388'-0"	2175.0	
Soft Coal		1'-4"	392'-0"	2171.0	
Shale		2'-5"			
Coal		1'-0"			
Shale		0'-3"			
Boney Coal		0'-6"			
Shale		0'-4"	397'-10"	2165.2	
Agglomerate		19'-2"			
Trap Rock		2'-0"	417'-0"	2146.0	
			419'-0"	2144.0	July 14.

CANADIAN COLLIERIES (DUNSMUIR) LTD
PROSPECT HOLE N^o 140
COMOX FIELD

SCALE: 1"=20'

	Material	Section	Thick	Depth below Surface	Elev.	Date
	Surface Soil		15'-0"		2546.2	1917.
				15'-0"	2531.0	Jan 17.
Broken Soft Coal				92'-0"		
				8"		
Coal				1'-4"		
Sandy Shale				2'-4"		
	Sandstone		69'-0"			
Coal	Sandy Shale		1'-0"	84'-0"	2462.0	
	Brown Shale		1'-0"	85'-0"	2461.0	
	Soft Coal		8"	92'-0"	2454.0	
	Coal		1'-4"	92'-8"	2453.3	Jan. 23
	Sandy Shale		2'-4"	94'-0"	2452.0	
Shale & Clay	Coal		1'-8"	96'-4"	2449.7	
	Shale & Clay		1'-6"	98'-0"	2448.0	
	Dirty Coal		1'-3"	99'-6"	2446.5	
	Coal		9"	100'-9"	2445.2	
	Shale		2'-0"	101'-6"	2444.5	
Coal	Coal		8"	103'-6"	2442.5	
	Soft Shale		4"	104'-2"	2441.8	
	Coal		6"	104'-6"	2441.5	
	Soft Shale		6"	105'-0"	2441.0	
Shale	Coal		1'-0"	105'-6"	2440.5	
	Soft Shale		6"	106'-6"	2439.5	
	Brown Shale		3'-0"	107'-0"	2439.0	
Coal	Sandy Shale		10'-0"	110'-0"	2436.0	
Broken Soft Shale			4"	120'-0"	2426.0	Jan. 24
Coal			6"			
Broken Soft Shale			6"			
Coal			1'-0"			
	Lower Seam				2383.0	
				106'-6"		

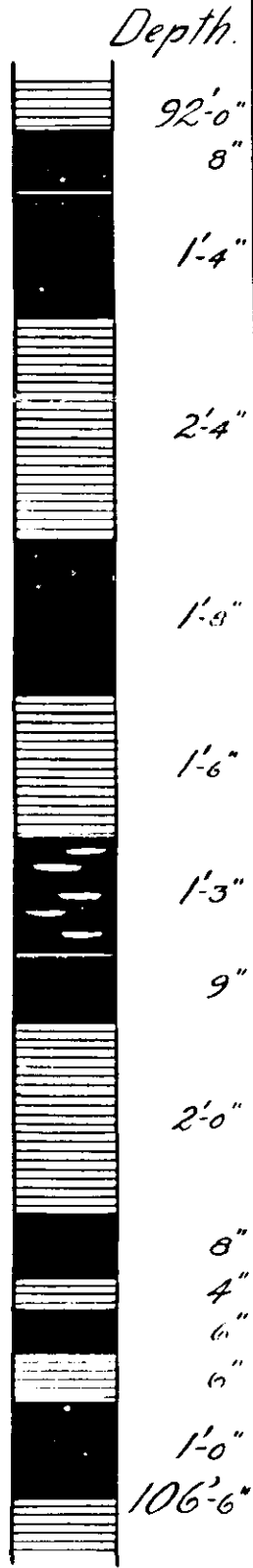
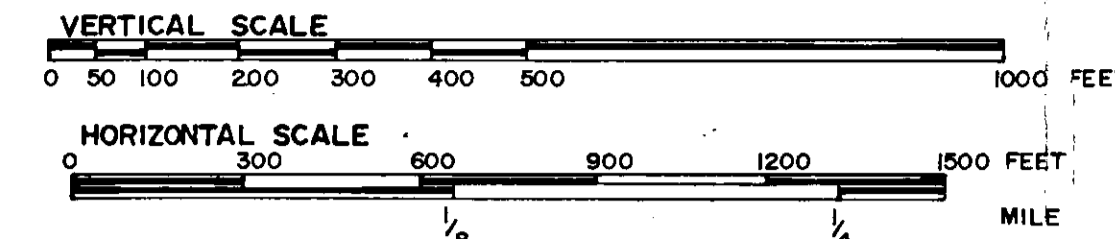


Fig. 41
LI

694

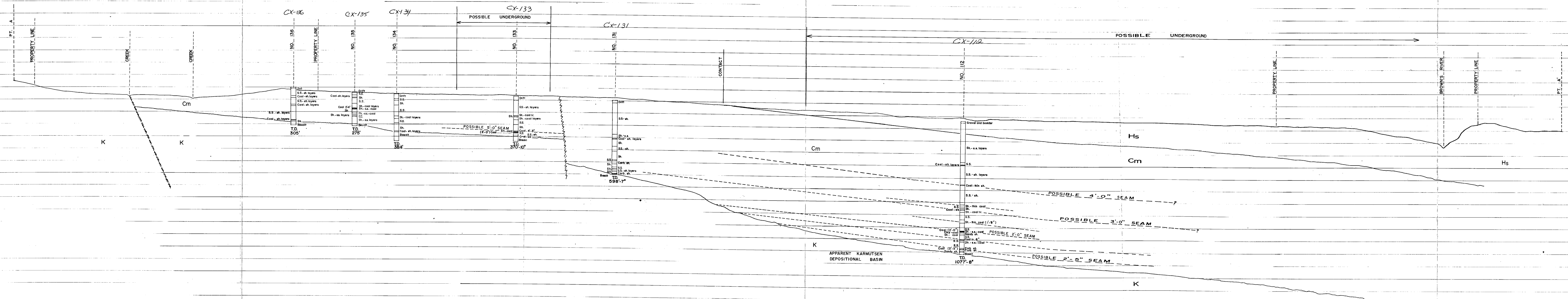
CUMBERLAND AREA, PROFILE SECTION A-A



ASL (feet)

2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
Sea Level
-100
-200
-300
-400
-500
-600
-700
-800
-900
-1000
-1100
-1200

Locations CX-136, 135, 134, 133, 131, + 112.
refer to Map # 178-MAP-5
Cuneis



POSSIBLE UNDERGROUND

POSSIBLE UNDERGROUND

APPARENT KARMUTSEN DEPOSITIONAL BASIN

POSSIBLE 4'-0" SEAM

POSSIBLE 3'-0" SEAM

POSSIBLE 2'-0" SEAM

POSSIBLE 2'-5" SEAM

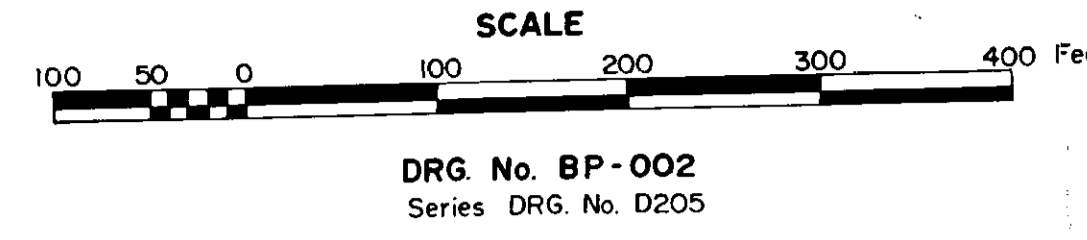
POSSIBLE 5'-0" SEAM

Sea Level

ASL (feet)

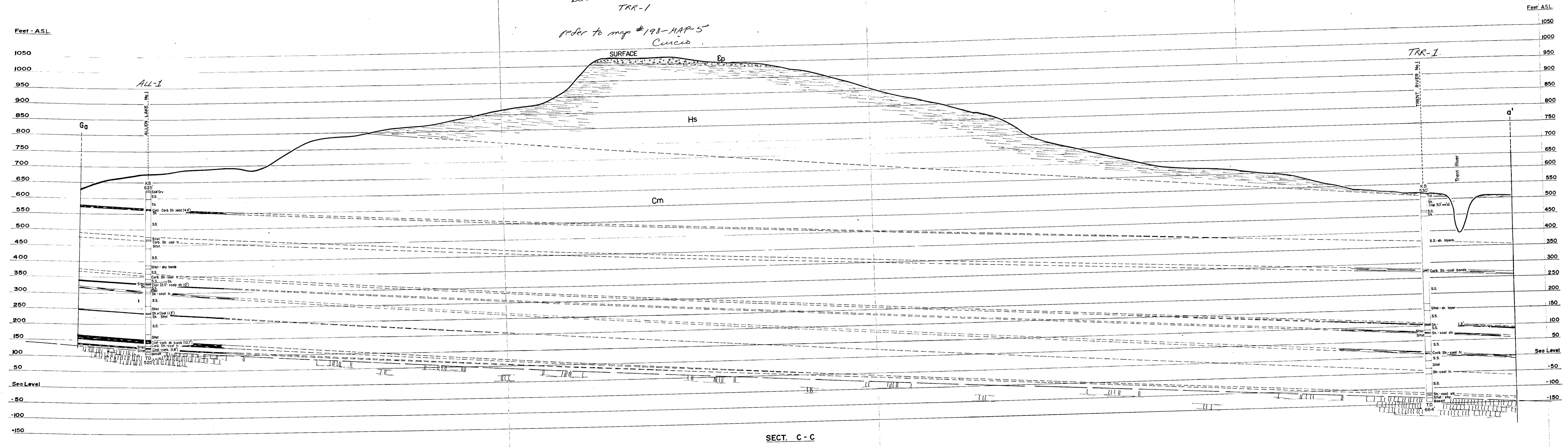
Fig. 47
 (L2) 694

CUMBERLAND AREA PROFILE
 SECTION Ga-a'



Boreholes ALL-1
 TRR-1

refer to map #193-MAP-5
 Curved



Borchers
 ALL-1, TRR-1, TRR-2
 refer to map # 178-Map-5-
Fig. 48694
 (L3)

CUMBERLAND AREA PROFILE
 SECTION Gb-b'
 Gc-c'

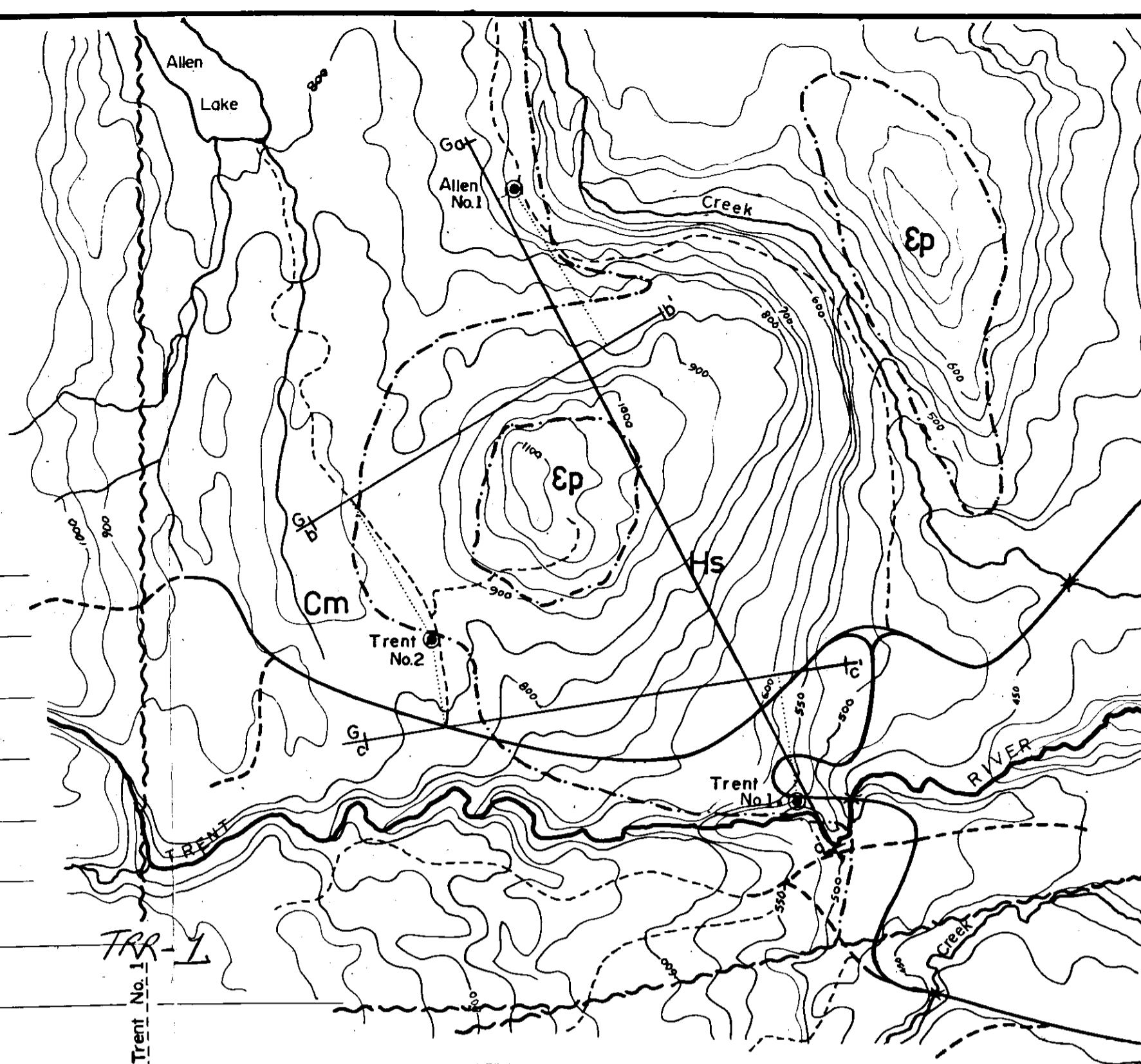
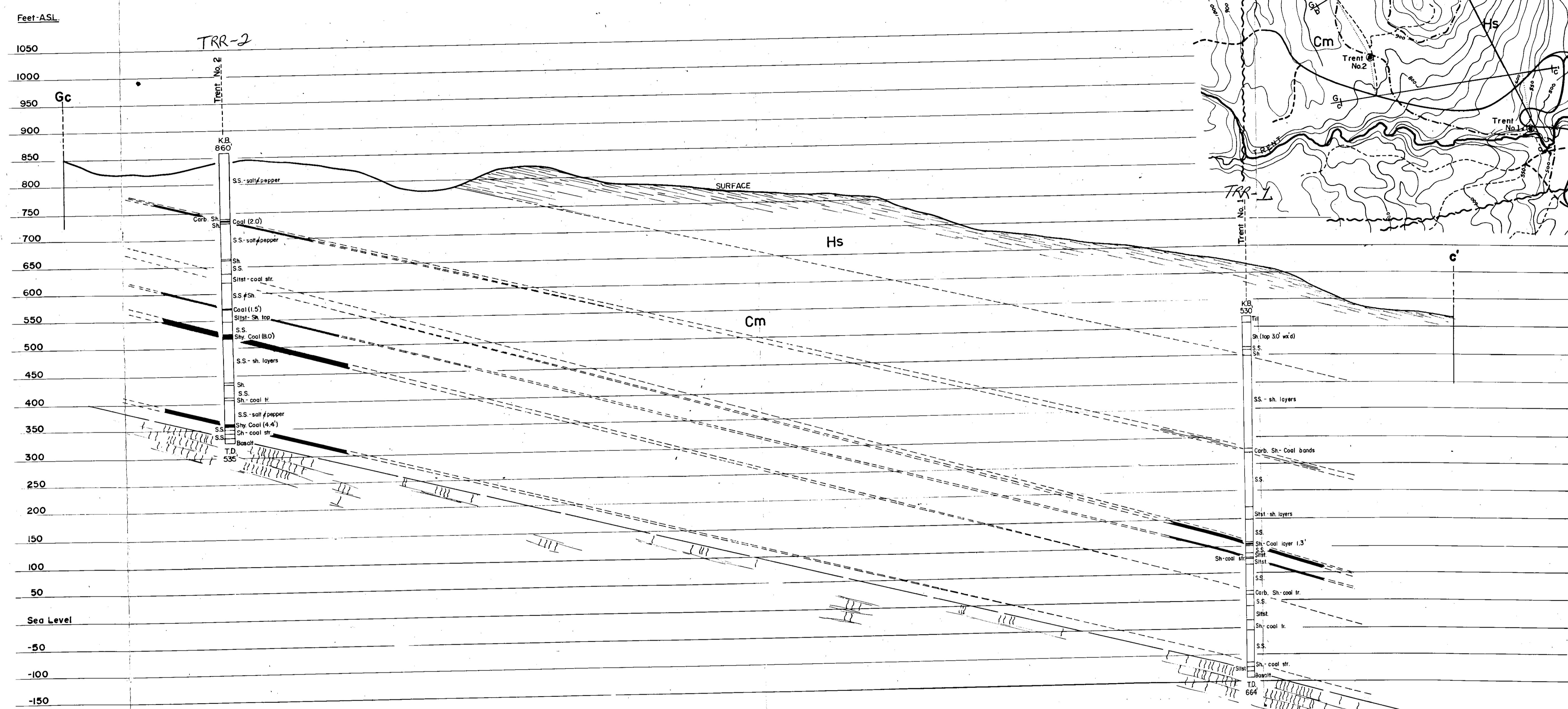
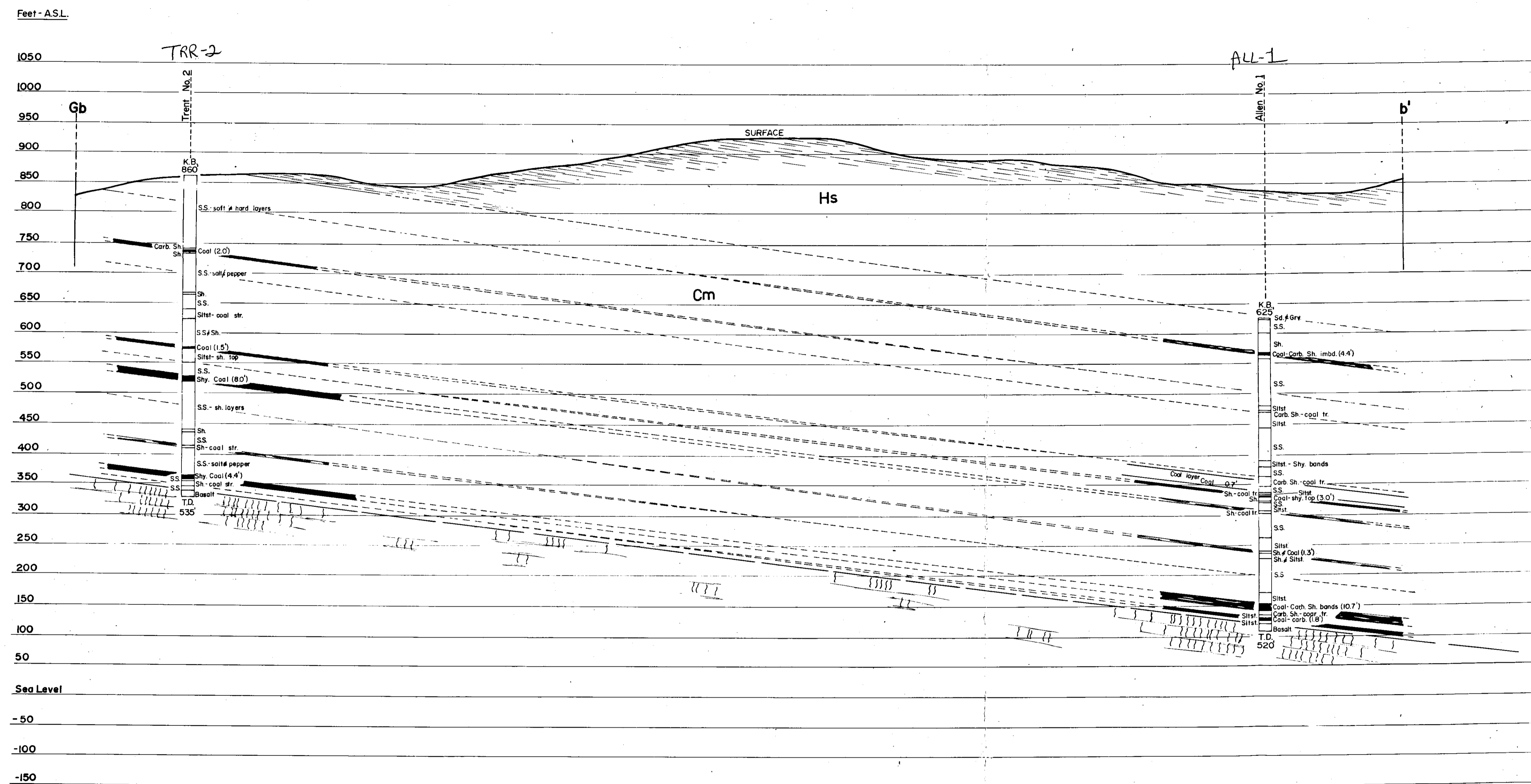
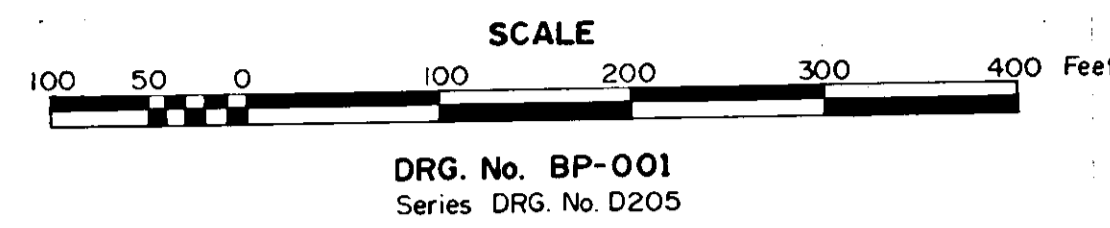
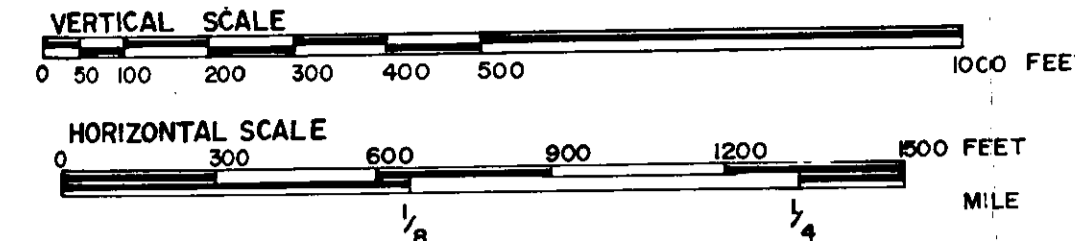


fig. 57
(L4) 694

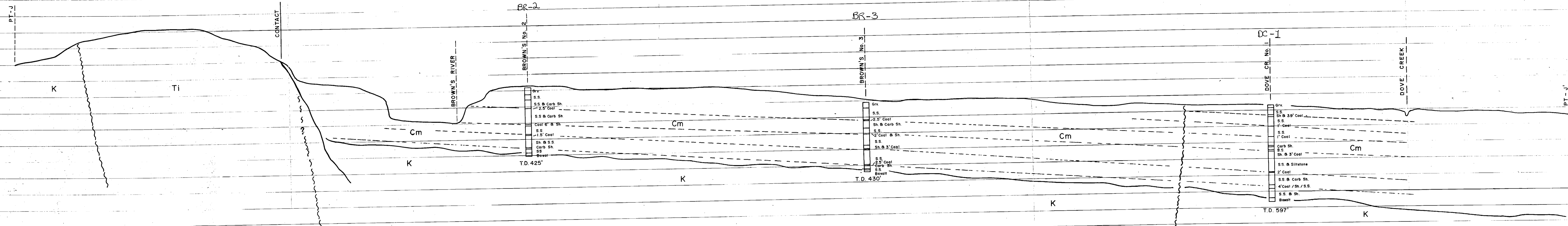
ANDERSON AREA PROFILE
SECTION J-J'



ASL (feet)

2100 BR-2, BR-3, DC-1
2000 refer to map # 198-Map-4/1.
1900 by Cuesco.

1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
Sea Level
-100
-200
-300
-400
-500
-600
-700
-800
-900
-1000
-1100
-1200



BR-2

BR-3

DC-1

BROWN'S No. 2

BROWN'S No. 3

DOVE CR. No. 1

T.D. 425'

T.D. 450'

T.D. 597'

K

Ti

Cm

Cm

K

Cm

K

Cm

K

CONTACT

BROWN'S RIVER

DOVE CREEK

P.T. J

P.T. J'

WELWOOD OF CANADA LIMITED

100.

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Bloedel Creek #1 **BC-1**
 LOCATION - T'Sable River Area
 ELEVATION - 320
 DATE - June 1975

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Sand, Gravel and Boulders	0	8
Cemented Gravel and Rock	8	31
Grey Clay and Rocks	31	36
Silt-Till, Boulders, Gravel and Sand Bands	36	97
Gravel and Sand	97	106
Boulders	106	109
Dense Grey-Till, Gravel and Boulders	109	132
Shale - Grey	132	178
Sandstone	178	190
Grey Shale - silty	190	231
Grey Shale	227	313
Grey Shaly Siltstone	313	371
Grey Sandstone	371	376
Siltstone - grey, soft	376	463
Soft Grey Shale	463	514
Sandstone - grey (salt water)	514	519
Grey Shale - soft	519	529
Grey Siltstone	529	533
Soft Grey Shale	533	537

00694
(49)



FORMATION DENSITY LOG

COMPANY WELDWOOD of CANADA Ltd

WELL BLODEL CREEK #1

FIELD TSBARLE

PROVINCE BRITISH COLUMBIA

LOCATION

LOG INFORMATION

DATE LOGGED JUNE 3 1975

LOGGING DATA: SALT WATER, 5.86 g/cc, 5.87 g/cc

CASING IN HOLE 180 ft. FLUID LEVEL 30 ft.

BULK DENSITY ̑_b - gm/cc

SEN. 2.90 T.C. 1

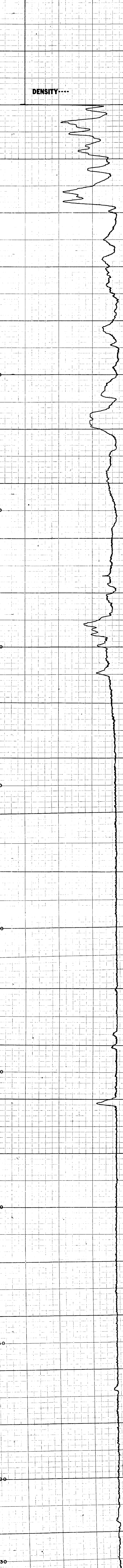
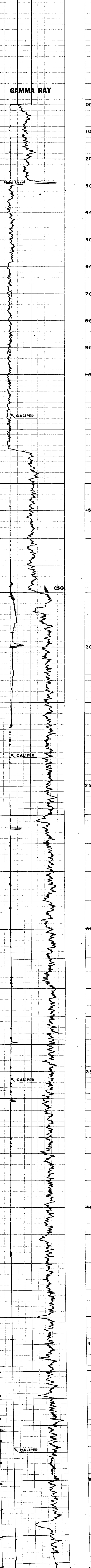
1.50 1.75 2.0 2.75

GAMMA RAY API UNITS

Scale: 0.20 T.C. 2, Zero div. to left

CALIPER hole diameter in inches

4 5 6 7 8 9 10 11 12



Log ends in pipe



WELDWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - T'Sable River #1 **TSR-1**
 LOCATION - T'Sable River Area
 ELEVATION - 460
 DATE - May 1975

Type of Cuttings	FEET	
	FROM	TO
Sand and Gravel	0	23
Sandstone - light grey	23	25
Grey Sandstone	25	61
Carbonaceous Shale - coal traces	61	65.4
Grey Sandstone	65.4	79
Grey Shale	79	80.3
Grey Sandstone	80.3	147
Soft Sandstone - light grey	147	163
Hard Sandstone - grey, black & white	163	181
Coal	181	186
Coal and Shale	186	188
Soft Siltstone - dark grey shale stringers	188	194
Sandstone	194	216.5
Shale - coal stringers	216.5	218
Siltstone and Sandstone - grey, hard	218	232
Grey Sandstone	232	238
Grey Silty Shale	238	252.6
Shale	252.6	261.8
Grey Shaley Siltstone	261.8	269
Shale	269	272.6
Grey Siltstone	272.6	282
Shale - Coal traces	282	287
Coal	287	292
Grey Shale	292	293.6
Grey Sandstone	293.6	296
Grey Shaley Siltstone	296	326
Basalt	326	357

00694
(50)

WELDWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - T'Sable River #2 **TSR-2**
 LOCATION - T'Sable River Area
 ELEVATION - 350
 DATE - May 1975

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Sand and Gravel	0	39
Grey Silty Shale	39	110.8
Grey Sandstone	110.8	117
Sandstone	117	136
Black Siltstone	136	147
Hard Shale - carbonaceous	147	156
Dark Grey Siltstone	156	187
Dark Grey Sandstone	187	192
Grey Sandstone	192	201
Grey Shale	201	208
Grey Sandstone	208	237
Dark Grey Sandstone	237	252.7
Carbonaceous Shale	252.7	255
Shale and Siltstone	255	259
Sandstone	259	261.5
Coal and Shale	261.5	262.3
Soft Brown Shale	262.3	263.5
Dark Brown Siltstone	263.5	265.5
Hard Sandstone - grey black	265.5	301
Dark Grey Sandstone	301	320
Sandstone	320	346.5
Coal and Shale	346.5	347.9
Shale	347.9	349
Siltstone	349	352.5
Coal	352.5	353.5
Siltstone and Sandstone	353.5	355
Grey Shale	355	356.1
Grey Sandstone	356.1	405.5
Coal	405.5	409.8
Grey Sandstone	409.8	412
Grey Shale	412	419
Grey Sandstone	419	507
Grey Sandstone	507	527
Dark Brown Shale	527	530.5
Coal with Shale	530.5	543.5
Siltstone - grey black	543.5	550
Grey Sandstone	550	565.8
Coal in some shale	565.8	567.8

cont'd ...

49000

Borehole No. 2 - T'Sable River Area

90.

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Dark Grey Siltstone	567.8	574
Grey Siltstone	574	593
Hard Sandstone	593	643
Grey Sandstone	643	647
Grey Shale	647	654.4
Coal	654.4	666.5
Grey Shale	666.5	725
Carbonaceous Shale	725	755
Grey and Brown Shales	755	768
Grey Sandstone	768	779
Grey and Brown Shales	779	782.5
Grey Sandstone	782.5	792.8
Sand	792.8	799
Grey and Brown Siltstone - shaley	799	803
Carbonaceous Shale with Sandstone stringers	803	845

00694

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - T'Sable River #3 **TSR-3**
 LOCATION - T'Sable River Area
 ELEVATION - 380
 DATE - May 1975

<u>Type of Cuttings</u>	FEET	
	FROM	TO
Gravel	0	8
Grey Shale	8	10
Soft Grey Shale	10	37.5
Siltstone	37.5	74
Sandstone - dark grey	74	80
Soft Grey Shale	80	137
Sandstone	137	139
Grey Sandstone	139	175
Sandstone	175	196
Coal	196	198
Carbonaceous Shale and Coal	198	200
Sandstone	200	208
Grey Sandstone - medium & fine grain - few bentonitic bands	208	236
Sandstone	236	263
Carbonaceous Shale	263	263.5
Grey Sandstone	263.5	266
Sandstone	266	274
Shale - Coal trace	274	284
Brown Sandstone	284	292
Shale	292	298
Sandstone	298	314
Grey Sandstone	314	353.5
Grey and Brown Shale	353.5	354.3
Coal and Carbonaceous Shale	354.3	355.5
Grey Sandstone	355.5	358
Carbonaceous Shale and Coal	358	360
Grey Sandstone	358	360
Carbonaceous Shale - coal traces	369	371
Grey Sandstone	371	378
Sandstone	378	396
Carbonaceous Shale - coal traces	396	397
Sandstone	397	408
Grey and Brown Sandstone	408	473.3

cont'd ...

YPP200

Borehole No. 3 - T'Sable River Area

92.

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Coal - few carbonaceous shale stringers	473.3	483
Brown Shale - silty	483	488
Grey Sandstone	488	489
Shale	489	499
Sandstone	499	510
Shale - coal trace	510	532
Soft Brown Sandstone	532	538
Sandstone	538	556
Shale - coal trace	556	558
Sandstone	558	565
Grey Sandstone	565	573
Carbonaceous Shales - coal traces	573	578.5
Coal - carbonaceous shale stringers	578.5	585.5
Carbonaceous Shales - coal traces	585.5	592.5
Grey Sandstone	592.5	595
Sandstone	595	598
Shale	598	610
Carbonaceous Shale - coal trace	610	613
Siltstone	613	632
Grey and Brown Siltstone	632	674
Grey Sandstone	674	708
White Sandstone	708	717
Grey Siltstone	717	732
Siltstone	732	736
Sandstone	736	750
Basalt	750	773

00694

CREAT SONS

FORMATION DENSITY LOG

COMPANY: WELDWOOD OF CANADA LTD. ①
 WELL: TCAHNE RIVER #1
 FIELD: TSABLE RIVER
 PROVINCE: BRITISH COLUMBIA
 LOCATION:

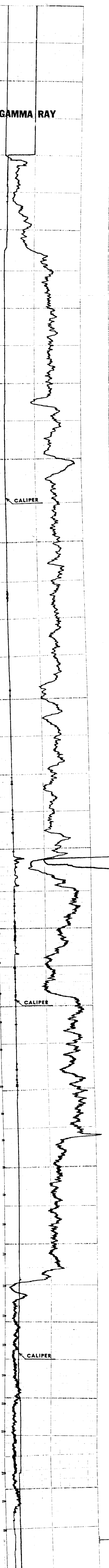
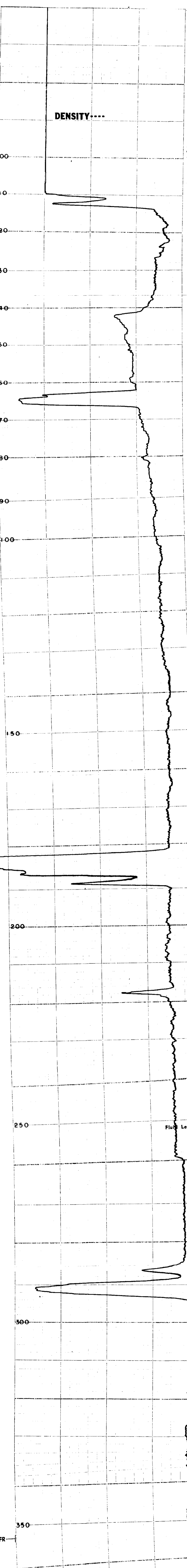
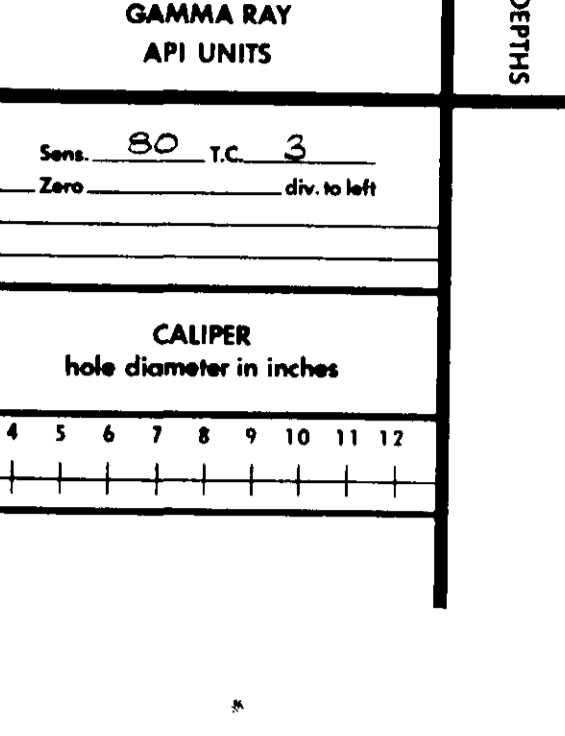
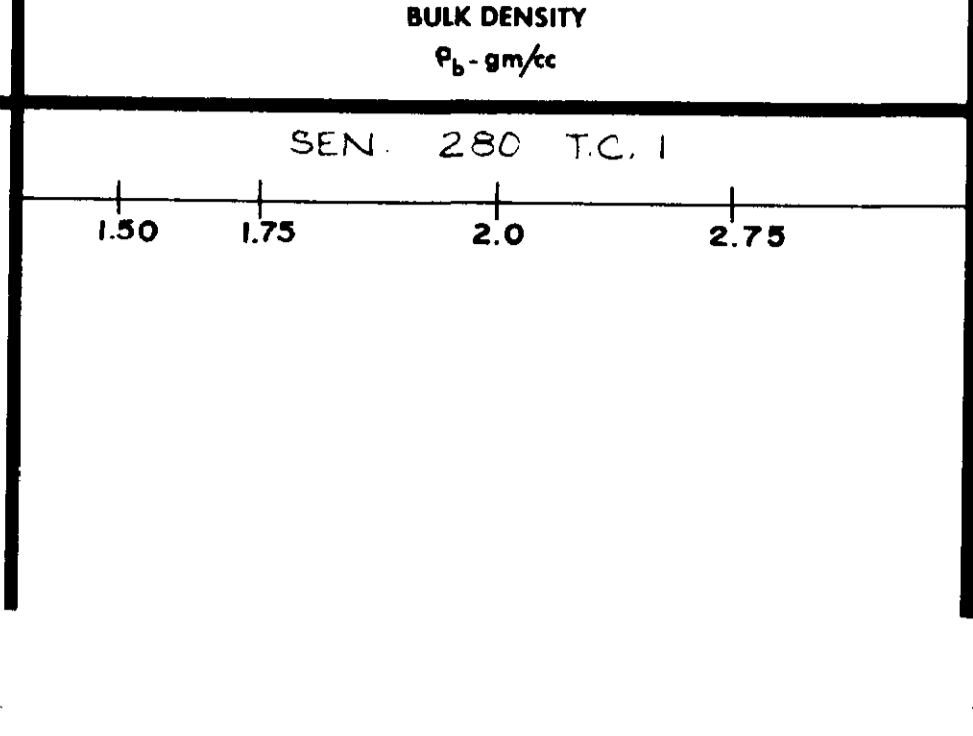
Date: MAY 14/75
 Run No.: 0114
 First Reading: 259.0 ft
 Last Reading: 0 ft
 Feet Measured: 256 ft
 Depth Reached: 257 ft
 Bottom Driller: 358 ft

Permanent Down: 0 ft
 Log Measured From: 0 ft Above From Down
 Other Services:

PROV: _____
 WEL: _____
 COMP: _____

CIP: _____
 Mud Nature: WATER
 Mud Visc: _____
 Mud pH: _____
 Water Loss: _____
 Bar: _____
 Bit Size: _____
 Source of Director: _____
 Spinning: _____
 Equipment Type: CONPROBE
 Opr. Rig Time: 45 MIN
 Log No: 13
 Recorded By: G. STUART
 Witness: G. GREEN

20 ft CASING IN HOLE
FLUID LEVEL 252 ft



FR

GREAT SUNS

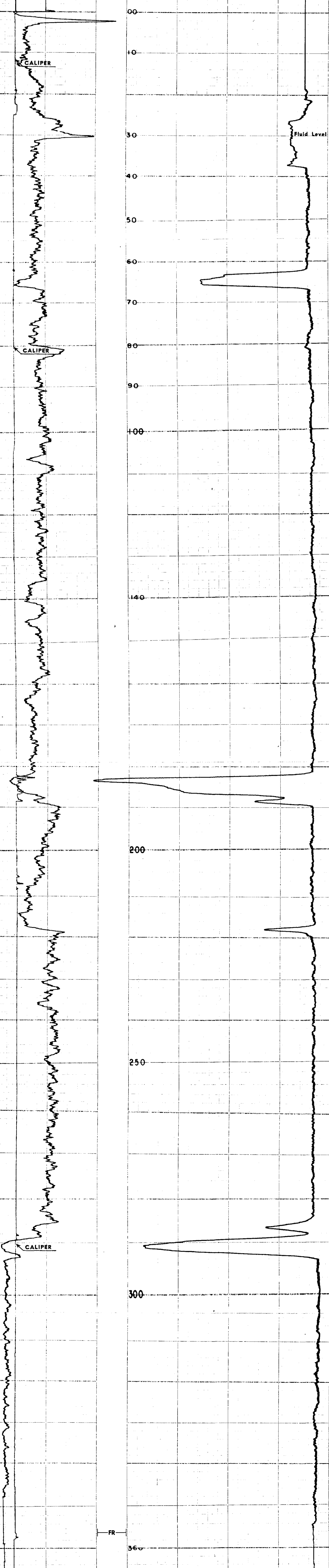
FORMATION DENSITY LOG

PROVINCE _____ FIELD _____ COMPANY _____	COMPANY <u>WELWOOD OF CANADA LTD.</u> WELL <u>TSR-1</u> FIELD <u>TSABLE RIVER</u> LOCATION <u>TSABLE BRITISH COLUMBIA</u>	PERMITS: _____ LOG MEASURED FROM: _____ LOG MEASURED TO: _____ PERMITS: _____	DATE <u>16 MAY 75</u> RUN NO. <u>1100</u> FIRST READING <u>2 ft</u> LAST READING <u>45 ft</u> FEET MEASURED <u>45 ft</u> DEPTH RECORDED <u>45 ft</u> BOTTOM DRILLER <u>(S201)</u>
--	--	--	---

CASING AT <u>2-4 ft</u> FLUID LEVEL AT <u>30 ft</u>	BULK DENSITY $P_b - \text{gm/cc}$ <u>SM 2.90 T.C. 1</u>	1.50 1.75 2.0 2.75
--	--	-----------------------------

GAMMA RAY API UNITS Sens. <u>0.80 T.C. 2</u> Zero _____ div. to left	DEPTHS
--	---------------

CALIPER hole diameter in inches 4 5 6 7 8 9 10 11 12	
---	--



FR

LOGS FORMATION DENSITY LOG

COMPANY: WELDWOOD OF CANADA LTD.
 WELL: TSABLE RIVER #2
 FIELD: TSABLE
 PROVINCE: BRITISH COLUMBIA
 LOCATION: [Blank]

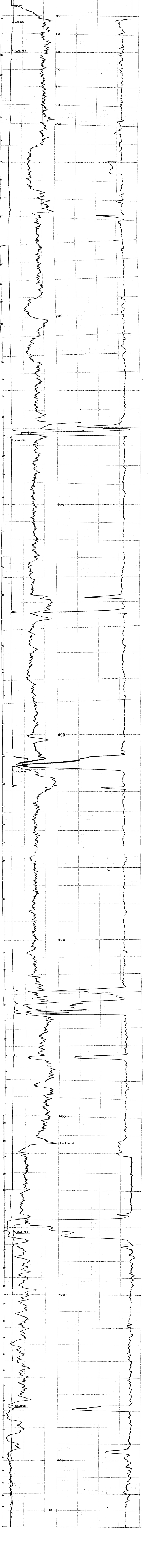
PROVINCE: [Blank]
 RED. WELL: [Blank]
 COMPANY: [Blank]
 Date: MAY 28/75
 Log Measured from: 0 ft. to 610 ft.
 Cased from: 0 ft. to 42 ft.
 Cased to: 42 ft.

Log No.: 694
 Log Reading: 0.20
 Log Measured: 0.20
 Depth: 0.20
 Depth Interval: 0.20
 Depth Center: 0.20
 Depth Range: 0.20
 Depth Error: 0.20
 Log Name: [Blank]
 Log Title: [Blank]
 Log Author: [Blank]
 Log Editor: [Blank]
 Log Reviewer: [Blank]
 Log Approver: [Blank]
 Log Date: [Blank]
 Log Time: [Blank]
 Log Location: [Blank]
 Log Well: [Blank]
 Log Field: [Blank]
 Log Province: [Blank]
 Log Country: [Blank]

Checked by: G. STUBBART
 Drawn by: G. GREEN
 Scale: 1" = 100 ft.
 Date: [Blank]
 Time: [Blank]

Weldwood of Canada Ltd.
 1000 West Broadway
 Vancouver, B.C. V6H 1G5
 Tel: (604) 681-1111
 Telex: 253011
 Fax: (604) 681-1112

CASING AT 42 ft.		FLUID AT 614 ft.		SEN. CHG. ON DENSITY AT 610 ft.		STUCK PILING INTO CASING AT 42 ft.	
GAMMA RAY API UNITS				BULK DENSITY ρ_b - gm/cc			
Sen. 0.80 T.C. 2				SEN. 2.90 T.C. 1			
Zero div to left				1.50 1.75 2.0 2.75			
CALIPER hole diameter in inches				4 5 6 7 8 9 10 11 12			



LOGS FORMATION DENSITY LOG

COMPANY WELWOOD of CANADA LTD.
 WELL TSABLE RIVER #3
 FIELD TSABLE RIVER
 PROVINCE BRITISH COLUMBIA

LOG NUMBER 694
 DATE JUNE 21/72
 TIME 09:15

PROVINCE _____
 WELL _____
 COMPANY _____

LOG NUMBER _____
 DATE _____
 TIME _____

CASING AT 14.0 FT.
 FLUID AT 13.5 FT.

BULK DENSITY ρ_b - gm/cc

SEN. 290 T.C. 1

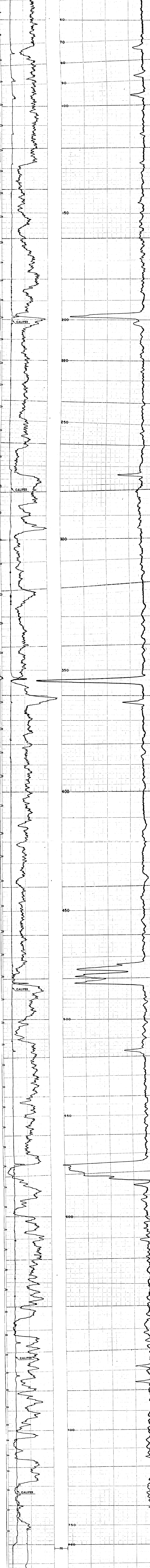
1.50 1.75 2.0 2.75

GAMMA RAY API UNITS

Scale 0.70 T.C. 2
 Zero div. to left

CALIPER hole diameter in inches

4 5 6 7 8 9 10 11 12



DEPTH

DENSITY

CASING

Field Level

CALIPER

0

CALIPER

20

CALIPER

40

CALIPER

60

CALIPER

80

CALIPER

100

CALIPER

150

CALIPER

200

CALIPER

220

CALIPER

250

CALIPER

300

CALIPER

350

CALIPER

400

CALIPER

450

CALIPER

500

CALIPER

550

CALIPER

600

CALIPER

650

CALIPER

700

CALIPER

750

CALIPER

FR 760

CALIPER

CALIPER

CALIPER

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CALIPER

CALIPER

CALIPER

WELWOOD OF CANADA LTD. 1000 WEST 10TH AVENUE, SHERBROOKE, QUEBEC, CANADA

WELDWOOD OF CANADA LIMITED

104.

VANCOUVER ISLAND
RESOURCE STUDY

HOLE NO. - Coal Creek #1 *CC-1*
LOCATION - T'Sable River Area
ELEVATION - 300
DATE - July 1975

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Gravel-Till-Boulders	0	193
Sandstone	193	203
Shale	203	207
Sandy Shale	207	387
Basalt Boulders (?)	387	---

00694
(51)

105.

WELDWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

HOLE NO. - Coal Creek #2 *CC-2*
LOCATION - T'Sable River Area
ELEVATION - 510
DATE - August 1975

<u>Type of Cuttings</u>	FEET	
	<u>FROM</u>	<u>TO</u>
Sand and Gravel	0	92
Fractured Basalt-Bouldary	92	212

49200

VANCOUVER ISLAND
RESOURCE STUDY

HOLE NO. - Coal Creek #3. *CC-3*
LOCATION - T'Sable River Area
ELEVATION - 600
DATE - August 1975

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Sand and Gravel	0	53

00694

107.

WELDWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

HOLE NO. - Coal Creek #4 **CC-4**
LOCATION - T'Sable River Area
ELEVATION - 605
DATE - August 1975

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Gravel and Till	0	225

PP200

ROKE

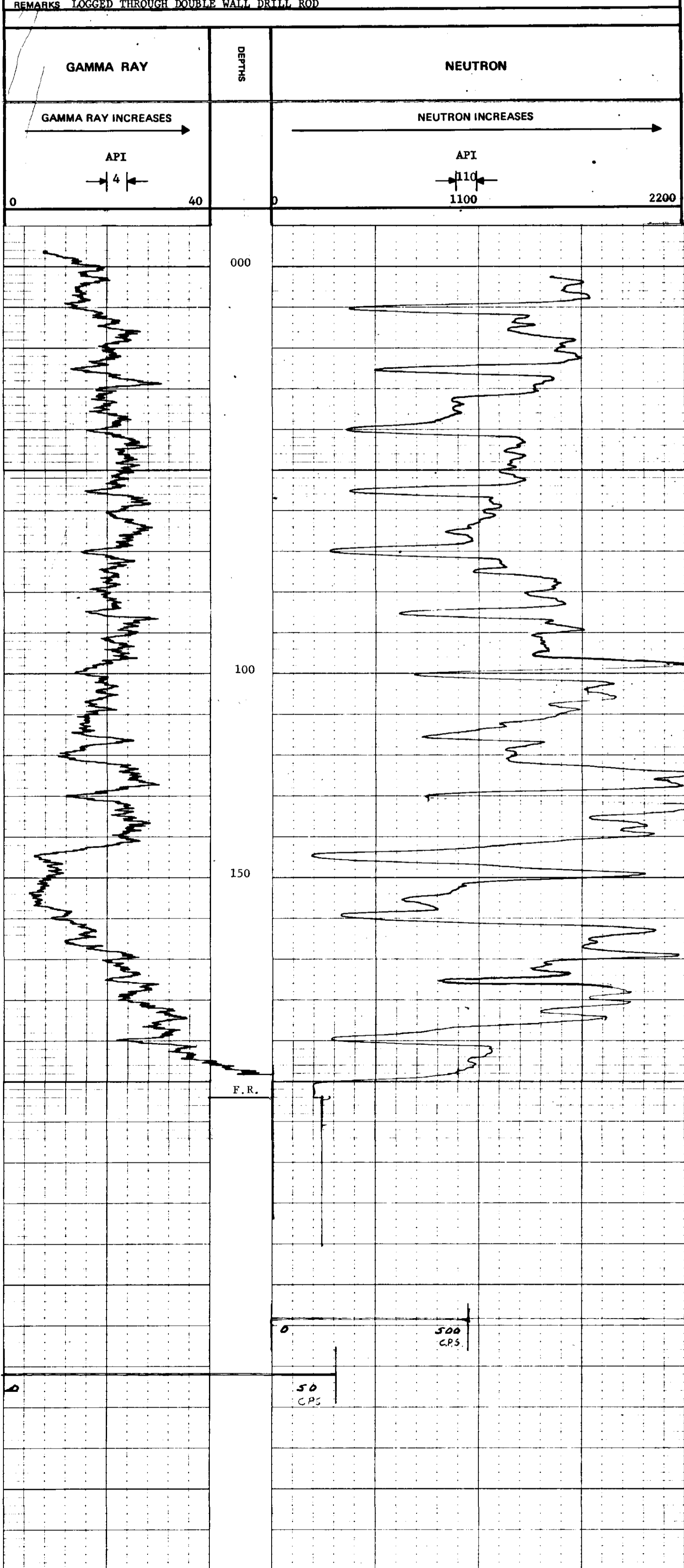
GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	WELL	COIL CENTER #	CC-291
LSD SEC	WELLWOOD OF CANADA LTD.	LOCATION		
TWP		FIELD	TABIE RIVER	
RGE		PROVINCE	BRITISH COLUMBIA	
W	M			
Permanent Datum	GROUND LEVEL	Elev.	510	K.B. _____
Log Measured from	GROUND LEVEL	Ft. Above Perm. Datum		CSG _____
Well Depth Measured from				G.L. _____
Run No.	ONE	Other Services:	NIL	
Date	8 AUGUST 1975			
First Reading	204			
Last Reading	00			
Footage Logged	204			
Depth Reached	205			
Depth Driller	213			
Casing Role				
Casing Drilled \$				
Fluid Type	MUD			
Liquid Level	FULL			
Min. Diam.	4-3/4			
Rin @ of				
Operating Time	1-1/2 HOURS			
Truck No.	30			
Recorded By	STM	Witnessed By	GREEN	

EQUIPMENT DATA			
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	1 1/2	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	1 1/2
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	4 INCH	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	755 FT.	LENGTH	6 INCH
		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	265
HOIST TRUCK NO.	30	SPACING	17 INCH
INSTRUMENT TRUCK NO.		TYPE	AmBe
TOOL SERIAL NO.	R GRN 125-001	STRENGTH	3 CURIES

LOGGING DATA											
GENERAL			GAMMA RAY					NEUTRON			
RUN NO.	DEPTHS		SPEED FT/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API G. R. UNITS PER LOG DIV.	T. C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API N. UNITS PER LOG DIV.
	FROM	TO									
1	00	204	12	5	50	0L	4 API	3	500	0L	110 API



WELDWOOD OF CANADA LIMITED

98.

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Bradley Lake #1
LOCATION - T'Sable River Area
ELEVATION - 975
DATE - May 1975

BL-1

00694

Type of Cuttings	FEET	
	FROM	TO
Sand and Gravel	0	8
Clay-Till and Boulders	8	18.3
→ Coal, Shale and Carbonaceous Shale	18.3	20.3
Brown Shale	20.3	30
Grey Sandstone	30	35.6 -
→ Coal	35.6	37.3
Brown, Silty Shale	37.3	45
→ Coal & Shale	45	46.4
Brown & Grey Shale	46.4	48
Soft Light Grey Sandstone	48	107.7 -
Brown Shale - trace of coal	107.7	112
Silty Shale	112	116.7
→ Coal with Shale	116.7	120.8
Shale	120.8	122
Brown Siltstone	122	138
Grey Siltstone	138	146
Grey Sandstone	146	160 187.5
→ Coal - Shaley	160	187.5
Shale	187.5	188.5
Light Grey Sandstone	188.5	190
Brown Sandstone	190	238
Brown Sandstone with Shale	238	239
Silty Grey Brown Shale	239	242
Brown & Grey Siltstone - few carbonaceous and brown shale bands	242	250
at 263' 0.9' carbonaceous shale and coal	250	310
at 301' 1.2' carbonaceous shale and coal		
at 305' 0.8' carbonaceous shale and coal		
Grey Sandstone	310	317
Brown and Grey Siltstone	317	325
Grey Sandstone - medium	325	336
White Sandstone - coarse	336	342
→ Coal - odd carbonaceous shale band	342	352
Grey Shale - soft	352	353
Brown Siltstone	353	363
Basalt	363	380

97.

WELDWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Bradley Lake #2 **BL-2**
LOCATION - T'Sable River Area
ELEVATION - 675
DATE - May 1975

00 694

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Till - some Gravel	0	14
Grey Sandstone	14	17
Grey Shale - fractured basalt - fault	17	41
Fractured Rock Sandstone Basalt - fault formation	41	57

(Hole was abandoned due to drilling difficulties beyond reasonable risk.)

DREATH SONS

FORMATION DENSITY LOG

COMPANY: WELWOOD of CANADA Ltd.
 WELL: BRADLEY LAKE #1
 FIELD: CUMBERLAND (TSARLE)
 PROVINCE: BRITISH COLUMBIA
 LOCATION: LRD Sec. Temp. Rge. Other Services:
 Permanent Datum: G.L. Elev. KB
 Log Measured From: G.L. 0' Ft. Above Perm. Datum Elev. KB
 CIP:

Date: MAY 6/75
 Tool No.: 2016
 Run Reading: 300.1
 Log Measured: 300.1
 Depth Reached: 325.1
 Bottom Driller:

Mud Nature: WATER
 Mud pH:

Water Loss: 5 1/8"
 Bit Size: 13"
 Source to Detector: COVERSTONE
 Spacing: 45 m.m.
 Equipment Type: 43
 Oper. Rig Time: 43
 Tool No.: 43
 Recorded By: G. GREEN
 Witness:

FLUID LEVEL 38 ft.
CASING AT 20 ft.

GAMMA RAY API UNITS	DEPTHS	BULK DENSITY P _b - gm/cc			
		SEN. 0.310 T.C. 1			
		1.50	1.75	2.0	2.75

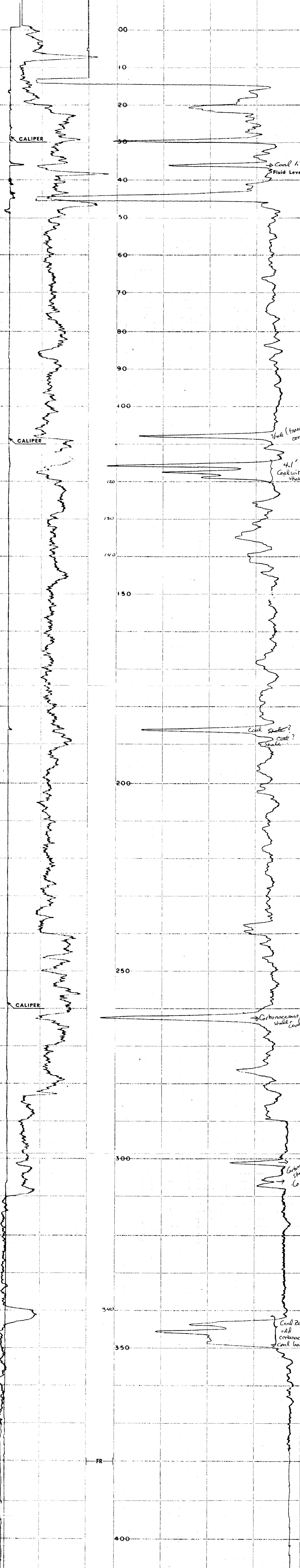
Sens. 0.310 T.C. 2
Zero div. to left

CALIPER
hole diameter in inches

4 5 6 7 8 9 10 11 12

GAMMA RAY

DENSITY-----



WELDWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Cook Creek #1 CCR-1
 LOCATION - T'Sable River Area
 ELEVATION - 480
 DATE - June 1975

<u>Type of Cuttings</u>	FEET	
	FROM	TO
Sand - few pebbles	0	17
Gravel	17	22
Grey and Brown Silty-Till - odd stones	22	52.5
Gravel - few sand bands	52.5	100
Cemented Gravel and Boulders	100	155
Basalt and Metamorphosized Sandstone	155	185
Basalt	185	188

00694

(53)

VANCOUVER ISLAND
RESOURCE STUDY

HOLE NO. - Cowie Creek #1 **CWC-1**
LOCATION - T'Sable River Area
ELEVATION - 690
DATE - August 1975

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Gravel and Boulders	0	53
Basalt	53	55

00694
(54)

103.

WELDWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

HOLE NO. - Cowie Creek #2A CWC-2A
LOCATION - T'Sable River Area
ELEVATION - 585
DATE - August 1975

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Gravel and Boulders	0	42

PP200

101.

WELDWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Rosewall #1 **RW-1**
 LOCATION - T'Sable River Area
 ELEVATION - 315
 DATE - May 1975

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Sand and Gravel	0	22
Soft Grey Shale	22	26
Hard Black Siltstone	26	29
Conglomerate	29	36
Soft Grey Shale	36	37
Sand	37	43
Shattered Sandstone-Shale	43	84
Conglomerate	84	94

00694
(55)

95.

WELWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Langley Lake #1 LL-1
 LOCATION - T'Sable River Area
 ELEVATION - 480
 DATE - May 1975

<u>Type of Cuttings</u>	FEET	
	FROM	TO
Till - rocks	0	4
Grey Sandstone - weathered	4	14.5
Grey Shale - silty	14.5	19.8
Grey Siltstone - few shaley bands	19.8	92.4
Grey Sandstone	92.4	94.5
Conglomerate	94.5	101
Grey Sandstone - medium to coarse	101	241
Conglomerate	241	257.3
Grey Sandstone - silty bands	257.3	444
- at 258' - 0.9' carbonaceous shale and coal		
Conglomerate	444	448.5
Grey Sandstone	448.5	450
Sandstone	450	455
Conglomerate	455	458
Grey Sandstone	458	494
Grey Shale - silty	494	513
Grey Sandstone	513	522
Grey and Brown Shales - silty bands	522	526
- carbonaceous shale and coal bands - 524' - 526'		
Grey and Brown Sandstone	526	550
Hard Sandstone with small conglomerate layers	550	575
Grey and Brown Sandstone	575	581
Conglomerate and Sandstone banded	581	601

00694
(56)

WELWOOD OF CANADA LIMITED

96.

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Langely Lake #2 LL-2
 LOCATION - T'Sable River Area
 ELEVATION - 370
 DATE - May 1975

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Gravel and Sand	0	27
Grey Shale	27	58
Soft Grey Shale	60	71
Hard Black Sandstone	71	74
Soft Grey Shale	74	94
Dark Grey Shale	94	126
Grey Sandstone	126	128
Grey Silty Shale	128	140
Hard Silty Shale - dark grey	140	200
Grey Silty Shale	200	243.5
Grey Siltstone	243.5	370
Grey Sandstone	370	371.8
Grey Silty Shale	371.8	510
Grey Shale - soft	510	553.5
Hard Siltstone	553.5	556
Dark Grey Shale - soft	556	575
Coarse Sandstone - grey, hard	575	586
Hard Sandstone - dark grey	586	600
Soft Brown Shale	600	601.3
Sandstone	601.3	605
Grey Shale	605	611
Dark Grey Sandstone - hard	611	624
Grey Shale	624	625
Grey Shale	625	648
Grey Silty Shale	648	698.5
Grey Sandstone	698.5	715

00694

DRAKE SONS

FORMATION DENSITY LOG

COMPANY: WELSHWOOD of CANADA Ltd.
 WELL: LANGLEY LAKE #1
 FIELD: LANGLEY LAKE (CSARZ)

PROVINCE: BRITISH COLUMBIA
 LOCATION: LANGLEY LAKE

LOG MEASURED FROM: 4.1' - 0' Above Perm. Down
 ELEV. TO: 480 FT
 OF: 480 FT
 CIP: 694

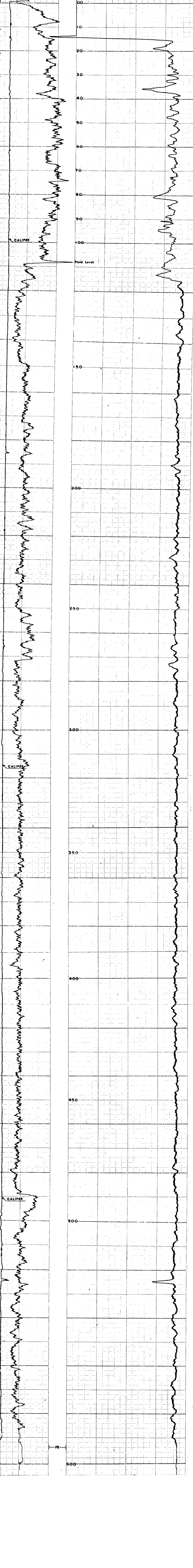
DATE: MAY 20/78
 TIME: 5:00 PM
 TYPE: 50 FT
 TEST: 0 FT
 TEST: 598 FT
 TEST: 601 FT

LOG NO.:
 SURV. NO.:
 SURV. DATE:
 SURV. TIME:
 SURV. TYPE:
 SURV. BY:
 SURV. CHECKED BY:
 SURV. APPROVED BY:

FLUID LEVEL: 108 FT
 CASING: 15 FT

GAMMA RAY API UNITS		BULK DENSITY ρ_b - gm/cc	
SEN. 2.80	T.C. 2	SEN. 2.90	T.C. 1
Zero	div. to left	1.50	1.75
		2.00	2.75

CALIPER hole diameter in inches	
4	12
5	
6	
7	
8	
9	
10	
11	
12	



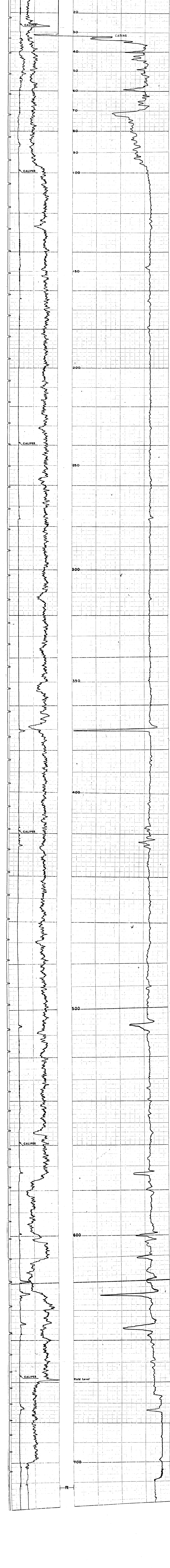
GEACI SONS FORMATION DENSITY LOG

COMPANY: WEERWOOD of CANADA LTD
 WELL: LANGLY LAKE #2
 FIELD: LANGLY LAKE (TSABIE)
 PROVINCE: BRITISH COLUMBIA
 LOCATION: TSABIE
 COUNTY:
 City:
 State:
 Zip:
 Other Service:
 Log Measured from: G.L. to: 327.4
 Log Measured from: C. to: 327.4
 Log Measured from: D. to: 327.4
 CIP:
 Log No.:
 Log Date: MAY 28/75
 Log Time: 7:45
 Log Location: 7144
 Log Operator:
 Log Recorder:
 Log Checker:
 Log Supervisor:
 Log Engineer:
 Log Foreman:
 Log Assistant:
 Log Operator:
 Log Recorder:
 Log Checker:
 Log Supervisor:
 Log Engineer:
 Log Foreman:
 Log Assistant:

PROVINCE:
 FIELD:
 WELL:
 COMPANY:
 Casing at 32 ft
 Fluid Level at 558 ft

GAMMA RAY API UNITS	BULK DENSITY ρ_b - g/cc			
	SEN. 290 T.C. 1			
Scale: 0.20 TC 2 Zero: div. to left	1.50	1.75	2.0	2.75

CALIPER hole diameter in inches			
4	5	6	7
8	9	10	11
12			



Fluid Level

TR-42

CANADIAN COLLIERIES (DUNSMUIR) LTD

BORE HOLE N° 42

"E" Core. 1 5/16"

00694

TSABLE RIVER FIELD.

Scale:- 1"=20'

MATERIAL	SECTION	THICKNESS	Depth below Surface.	Elev. 556' above H.W.M. at Union Bay.	Date.
Sandstone		93' 0"			May 18 th 1943
					" 19 th "
					" 20 th "
					" 21 st "
					" 22 nd "
					" 26 th "
					" 27 th "
					" 28 th "
					" 29 th "
					Coal. (No Core)
Shale.		12' 6"			June 1 st "
Sandstone		18' 6"	109' 0"	447.0'	" 2 nd "
					" 3 rd "
Coal. (No Core)		2' 0"	127' 6" 129' 6"	428.5' 426.5'	" 4 th "
Shale		6' 6"	136' 0"	420.0'	" 5 th "
Shale Sandstone		18' 0"	154' 0"	402.0'	" 7 th "
					" 8 th "

TR-43

CANADIAN COLLIERIES (DUNSMUIR) LTD

BORE HOLE N° 43.

E" Core. 15/16"

00694

TSABLE RIVER FIELD

Scale:- 1"=20'

MATERIAL	SECTION	THICKNESS.	Depth below Surface	Elev. 523.3 above H.W.M. at Union Bay.	Date.
Sandstone		46' 6"			June 11 th 1943
					" 12 th "
					" 14 th "
					" 15 th "
Shale.		1' 0"	46' 6"	476.8'	
Coal (No Core)		1' 0"	51' 0"	472.3'	" 16 th "
Dirty		2' 0"	52' 0"	471.3'	
Coal (No Core)		1' 0"			
Shale.		10' 0"			
Sandstone					" 17 th "
Coal dirty. (No Core)		2' 0"	62' 0"	461.3'	
			64' 0"	459.3'	
Stone & Shale.		10' 0"			" 18 th "
Trap		13' 0"		74' 0"	449.3'
			87' 0"	436.3'	" 21 st "

CANADIAN COLLIERIES (DUNSMUIR) LTD.

BORE HOLE N° 44.

"E" Core. 1 5/16"

TSABLE RIVER FIELD

Scale:- 1"=20'

00694

MATERIAL	SECTION	THICKNESS	Depth below Surface	Elev. 534.7 above H.W.M. at Union Bay.	Date.
Sandstone.		14' 0"			June 26 th 1945
Shale.		1' 0"	14' 0"	520.7	
Dirk & Coal		1' 6"	15' 6"	519.7	
Shale.		1' 6"	17' 0"	517.7	28 th
Sandstone.		10' 0"			
Shale.		1' 0"	27' 0"	507.7	29 th
			28' 0"	506.7	30 th
					July 3 rd
					5 th
					6 th
					7 th
Sandstone.		93' 6"			8 th
					9 th
					10 th
					12 th
					13 th
Coal		1' 6"	121' 6"	413.2	14 th
Dirk		3/4"			
Sstone		2 1/2"	127' 0"	407.7	
Coal		3' 6"			15 th
Shale.		11' 0"			
Sandstone.		2' 0"	138' 0"	396.7	16 th
			140' 0"	394.7	

TR-45

CANADIAN COLLIERIES (DUNSMUIR) LTD.

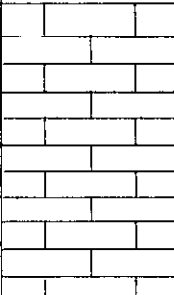

BORE HOLE N° 45.

5" Core. 15/16"

00694

TSABLE RIVER FIELD.

Scale:- 1"=20'

MATERIAL	SECTION	THICKNESS	Depth		Date.
			below Surface	Elev. 615.1 above H.W.M. at Union Bay.	
Sandstone		30' 6"			Aug 2 nd 1943
					" 3 rd "
					Aug 4 th ..
Coal (No Core) Shale		3' 6" 2' 0"	30' 6"	584.6'	" 5 th "
			34' 0" 36' 0"	581.1' 579.1'	" 6 th "

CANADIAN COLLIERIES (DUNSMUIR) LTD.

BORE HOLE N^o 41

TSABLE RIVER FIELD

Scale: - 1" = 20'

TR-41

00694

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV. 100.0' ABOVE N.W.M. AT UNION BAY	DATE
Surface		10'-0"	10'-0"	1092.1	Aug. 7 th 1921
Conglomerate		8'-0"	18'-0"	1084.1	
Sandstone		32'-0"	50'-0"	1052.1	- 9 th -
					- 9 th -
Conglomerate		43'-0"	93'-0"	1009.1	- 10 th -
					- 11 th -
Sandy Shale		19'-0"	112'-0"	990.1	- 12 th -
					- 12 th -
Sandy Shale & Sandstone		48'-0"	160'-0"	942.1	- 13 th -
					- 13 th -
Sandstone		120'-0"	280'-0"	822.1	- 15 th -
					- 15 th -
Shale		221'-0"	501'-0"	601.1	- 16 th -
					- 16 th -
Sandstone		65'-0"	566'-0"	536.1	- 24 th -
					- 24 th -
Conglomerate		74'-0"	640'-0"	462.1	- 25 th -
					- 25 th -
Sandy Shale		30'-0"	670'-0"	432.1	- 26 th -
					- 26 th -
Bony Coal		6"	676'-0"	431.6	- 29 th -
		5'-0"	681'-0"	426.6	- 29 th -
Coal		2'-6"	683'-0"	424.1	- 30 th -
					- 30 th -
Shale		12'-0"	695'-0"	412.1	- 31 st -
					- 31 st -
Sandstone		108'-0"	803'-0"	304.1	- 32 nd -
					- 32 nd -
Coal (flakey)		6"	809'-0"	303.6	- 33 rd -
		6"	815'-0"	303.1	- 33 rd -
Shale		23'-0"	838'-0"	280.1	- 34 th -
					- 34 th -
Sandstone		87'-0"	925'-0"	193.1	- 35 th -
					- 35 th -
Shale		18'-0"	943'-0"	175.1	- 36 th -
					- 36 th -
Coal		2'-0"	945'-0"	173.6	- 37 th -
		3'-0"	948'-0"	169.8	- 37 th -
Soft flakey Coal		3'-8"	951'-0"	166.1	- 38 th -
					- 38 th -
Soft dirty Coal		16'-0"	967'-0"	150.1	- 39 th -
					- 39 th -
Shale		8'-0"	975'-0"	142.1	- 40 th -
		3'-0"	978'-0"	138.1	- 40 th -
Shale		11'-0"	989'-0"	128.1	- 41 st -
		1'-0"	990'-0"	126.1	- 41 st -
Sandstone		54'-0"	1044'-0"	72.1	- 42 nd -
					- 42 nd -
Trap		10'-0"	1054'-0"	62.1	- 43 rd -
					- 43 rd -

00694

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV. ABOVE UNK. BY	DATE
				1143.9'	
Gravel & Boulders		18' 0"			
Shale		3' 0"	18' 0"	1175.9'	
Sandstone - broken		5' 0"	21' 0"	1172.9'	
			26' 0"	1117.9'	
Conglomerate poorly cemented		20' 6"			
			46' 6"	1027.4'	
Sandstone some pebbles		35' 6"			
Conglomerate		8'	82' 0"	1061.9'	
Sandstone some pebbles		13' 8"			
Conglomerate		10'	96' 4"	1047.6'	
Sandstone		5' 4"	102' 6"	1041.5'	
Sandst. shale streaks		2' 5"	105' 2"	1038.8'	
Sandstone		3' 6"	109' 2"	1034.8'	
Conglomerate		13' 10"			
			123' 0"	1020.9'	
Sandstone		21' 0"			
			144' 0"	999.9'	
Sandst. with pebbles		4' 0"	148' 0"	995.9'	
Shale		3' 0"	151' 0"	992.9'	
Sandstone		2' 0"	153' 0"	990.9'	
Sandst. - shale bands		18' 0"			
Sandstone		3' 0"	171' 0"	978.9'	
			174' 0"	969.9'	
Sandst. shale bands		19' 0"			
Sandstone		3' 6"	193' 0"	950.9'	
			196' 6"	947.4'	
Shale - 5' bands		19' 6"			
Sandstone		2' 0"	216' 0"	927.9'	
			218' 0"	925.9'	
Sandst. shale bands		9' 0"			
Sandstone		4' 0"	227' 0"	916.9'	
Sandst. shale bands		6' 0"	231' 0"	912.9'	
Sandstone - broken		8' 0"	237' 0"	906.9'	
Sandst. shale broken		9' 9"	245' 0"	898.9'	
Sandstone		7' 3"	254' 0"	889.2'	
			262' 0"	881.9'	
Sandstone with shale bands		60' 0"			
			322' 0"	821.9'	
Sandstone some pebbles & few shale bands		53' 1"			
Shale		6' 5"	375' 1"	768.8'	
Conglomerate		1' 6"	381' 6"	762.4'	
Shale		2' 0"	383' 6"	759.9'	
Conglomerate		4' 6"	389' 6"	754.4'	
Shale - 5' bands		1' 6"	391' 6"	751.9'	
Conglomerate		3' 0"	395' 0"	748.9'	
Conglomerate		12' 9"			
			407' 9"	736.2'	
Sandstone		28' 3"			
Congl. Shale		1' 8"	436' 0"	707.9'	
Shale		1' 0"	438' 3"	705.4'	
Sandstone		39' 9"			
Sandst. with pebbles		4' 0"	478' 0"	665.9'	
Sandstone		5' 6"	482' 0"	661.9'	
Conglomerate		2' 0"	487' 6"	656.4'	
Sandstone		3' 6"	493' 0"	650.9'	
Conglomerate		5' 0"	498' 0"	645.9'	
Sandstone		8' 0"	506' 0"	637.9'	
Conglomerate		9' 0"			
Shale		2' 0"	515' 0"	628.9'	
Conglomerate		10' 6"	517' 0"	626.9'	
Sandstone with pebble bands		16' 0"			
Shale		1' 0"	533' 6"	600.4'	
Sandstone		3' 10"	538' 0"	594.9'	
Congl. shale		1' 3"	542' 3"	589.7'	
Conglomerate		27' 3"			
Shale & Sandst.		2' 6"	579' 0"	564.9'	
Sandst. shale		2' 0"	581' 0"	562.9'	
Conglomerate		5' 2"	586' 2"	560.7'	
Conglomerate		1' 6"	588' 6"	555.4'	
Congl. Sandst.		1' 0"	590' 0"	553.9'	
Congl. Shale		1' 2"	591' 2"	551.4'	
Conglomerate		5' 7"	596' 9"	545.8'	
Sandstone		5' 10"	603' 11"	540.0'	
Conglomerate		26' 11"			
Shale & Sandst.		5' 11"	630' 10"	513.1'	
Shale with pebbles		6' 5"	636' 3"	507.2'	
Conglomerate with Sandst. bands		12' 0"	643' 2"	500.8'	
			655' 2"	488.8'	
Sandst. few shale bands		20' 11"			
			676' 11"	467.9'	
Sandst. with congl. bands & pebbles		9' 9"			
Conglomerate		1' 4"	686' 10"	458.1'	
Sandst. with congl. bands		4' 1"	691' 3"	452.7'	
Conglomerate		10' 6"			
			709' 9"	434.2'	
Sandstone		8' 7"			
			718' 4"	425.6'	
Conglomerate		8' 8"			
			727' 0"	416.9'	
Sandst. with shale bands		5' 6"			
			732' 6"	411.4'	
Sandstone		8' 3"			
			740' 9"	403.2'	
Sandst. with shale bands		7' 3"			
			748' 0"	395.9'	
Sandstone		15' 8"			
			763' 8"	380.2'	
Shale		12' 2"			
Coal & Shale 2"		2' 6"	775' 10"	368.0'	
Coal & Shale 3"		2' 8"	778' 4"	365.5'	
Coal & Shale 1 1/2"		2' 8"	781' 0"	362.9'	
Sandstone shale bands		24' 2"			
			805' 2"	338.7'	
Sandstone		108' 2"			
Coal. bonif.		2' 10"	913' 4"	230.5'	
Shale coal markings		6' 0"	916' 2"	227.7'	
Sandst. with shale streaks		2' 0"	922' 2"	221.7'	
Shale		6' 0"	924' 2"	219.7'	
			930' 2"	213.7'	
Sandstone		70' 8"			
Sandst. & Shale		2' 0"	1000' 10"	149.0'	
Shale		14' 4"	1002' 10"	147.0'	
Sandst. & shale		2' 7"	1017' 2"	126.7'	
Shale		2' 11"	1019' 3"	122.6'	
Shale		13' 6"			
Shale coal markings		2' 8 1/2"	1035' 5"	108.6'	
Shale coal markings		4' 2 1/2"	1037' 10"	105.9'	
Shale coal markings		2' 11"	1042' 1"	101.8'	
Shale		6' 4"	1045' 0"	99.9'	
Shale		8' 5"	1051' 4"	92.5'	
Shale & Sandst.		1' 5"	1059' 9"	84.1'	
Shale		5' 1"	1064' 1"	77.6'	
Coal		2' 0"	1066' 3"	75.6'	
Shale		6' 4"			
Sandstone		2' 4"	1074' 7"	69.3'	
Shale		2' 3"	1077' 11"	66.9'	
Sandstone		60' 0"			
Shale coal markings		2' 6"	1137' 7"	6.3'	
Sandstone		3' 0"	1140' 1"	0.8'	
			1143' 1"	-6.2'	
Trap		34' 0"			
			1184' 1"	-40.2'	

Shale & Coal 1 1/2"
Coal 3"
Shale & Coal 2"
Coal 3"
Coal 2' 3"

Shale & Coal 2"
Shale & Coal 2"
Shale 4' 2"
Coal 2' 9"
Shale & Coal 4"

Shale coal mtrgs. 6"
Shale & Coal 2' 4"
Shale coal mtrgs. 1' 11"
Shale & Coal 1' 3"
Coal 1' 0"

00694

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV ABOVE MINIM AT UNION BAY 1050.7	DATE
Gravel 4"		20' 0"	20' 0"	1030.7	
Sandst. broken		48' 0"			
Shale + Sandst. streaks		1' 0"	68' 0"	987.7	
Shale broken		47' 0"			
			116' 0"	934.7	
Shale. brn. Sst. streaks		36' 0"			
			152' 0"	898.7	
Sandy Shale		26' 0"			
			178' 0"	872.7	
Sandy Shale broken		9' 0"			
			187' 0"	863.7	
Sandy Shale		17' 0"			
Sst + Shale streaks.		2' 0"	204' 0"	846.7	
Sandy Shale broken		9' 0"	206' 0"	844.7	
Sst + Shale streaks		2' 0"	215' 0"	835.7	
			217' 0"	833.7	
Sandy Shale. broken with bands of Sst.		47' 0"			
Sandst. fine		1' 0"	264' 0"	786.7	
Sandy Shale. fine Sst. bands		18' 0"	265' 0"		
			283' 0"	767.7	
Sandy Shale. broken		15' 0"			
			308' 0"	742.7	
Sandy Shale. broken with bands of Sst.		37' 0"			
			345' 0"	705.7	
Sandy Shale. + Sst. bands + streaks.		39' 0"			
Sandstone		2' 0"	384' 0"	666.7	
			386' 0"	664.7	
Sandy Shale + Sst. bands		22' 0"			
Sandst. with Shale streaks		3' 0"	408' 0"	642.7	
			411' 0"	639.7	
Shale with Sandst. bands		36' 0"			
Sandst. Shale + Sst. bands		1' 6"	447' 0"	603.7	
			448' 0"	602.2	
Sandst. Shale + Sst. bands		5' 6"	454' 0"	596.7	
Sandst. Shale + Sst. bands		2' 0"	456' 0"	594.7	
			459' 0"	592.7	
Sst + Shale bands		23' 0"			
Sst + Shale layers. brn.		13' 0"	481' 0"	569.7	
Shale. broken.		17' 0"	494' 0"	556.7	
			511' 0"	593.7	
Sandstone broken		69' 8"			
Shale + Coal 1' 3" } Coal 1' 3" } Shale. coal mags 1' 6" }		3' 1"	580' 8"	470.0	
			583' 9"	466.9	
Sandstone		78' 5"			
			662' 2"	388.5	
Sandy Shale		30' 8"			
			692' 10"	357.8	
Shale + Sst. streaks.		7' 6"	700' 4"	350.3	
Coal + Shale		3' 0"	703' 4"	347.3	
Shale with Sst. streaks		2' 0"	706' 0"	344.7	
Sst with Shale streaks		42' 0"			
			748' 0"	302.7	
Sandst.		13' 0"			
			761' 0"	289.7	
Sst. with Shale streaks		12' 0"			
			773' 0"	277.7	
Sandy Shale		5' 0"			
Sst with Shale streaks		2' 0"	778' 0"	272.7	
			780' 0"	270.7	
Sandst.		44' 6"			
Shale. coal markings		4' 6"	824' 6"	226.2	
Shale. broken		8' 4"	829' 0"	221.7	
Shale. broken		2' 2"	837' 4"	213.4	
			839' 6"	211.2	
Sandst. bottom 2' broken		3' 6"	843' 0"	207.7	
Shale. broken. Shale. coal markings		1' 0"	859' 0"	191.7	
			860' 0"	190.7	
			862' 0"	188.7	
Sandst.		64' 2"			
Shale. broken. Sst + Shale bands		1' 0"	925' 0"	124.5	
			926' 0"	123.5	
Sst with Shale streaks		8' 0"	931' 0"	119.7	
Sandst.		5' 0"	939' 0"	111.7	
			944' 0"	106.7	
Sandst. + Shale layers. Top 9' broken.		24' 11"			
			969' 11"	91.9	
Shale. broken. Shale + Coal. Coal. Shale. coal mags 1' 0"		11' 8"			
			980' 7"	70.1	
			986' 6"	64.2	
			988' 9"	62.0	
Sst. with Shale streaks		9' 3"	998' 0"	52.7	
Sandst.		20' 0"			
Sst. with Shale streaks. Shale + Coal. Shale. coal mags 1' 6"		7' 0"	1018' 0"	32.7	
			1025' 0"	25.7	
			1029' 2"	23.5	
Trap.		7' 10"	1035' 0"	15.7	

Shale + Coal 3"
Coal. cloudy 1' 1"
Shale + Coal 10"

Coal. cloudy. 4' 6"
Coal. cloudy 4' 4"
Coal. cloudy 5"
Coal. shale 1' 7"
Coal. shale cloudy 2' 2"
Coal. shale + Coal. 3' 9"
Coal. 1' 9"
Brn. Shale + Coal. 1' 3"

TABLE RIVER

BH. 41

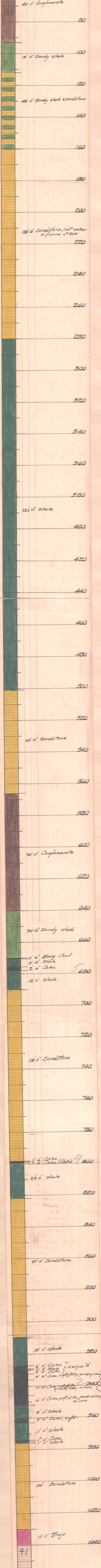
STATE		COMPANY	
COUNTY	FARM	WELL NO.	
BLOCK	SURVEY		
SEC.	NEASON DISTRICT		
T.	R.	TOTAL DEPTH	
		1040'	
CONTRACTOR			
COMMENCED Aug 7, 1921			
COMPLETED Sept. 24, 1921			
REMARKS			
ALTITUDE 1102.1'			
PRODUCTION			

CASING RECORD

10'	
8'	
2'	
1 1/2"	5 1/2"
SHOT	QUARTS BETWEEN

00694

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



7547

STATE

COMPANY **TR-47**

COUNTY

FARM

WELL NO.

BLOCK

SURVEY

NELSON DISTRICT

SEC.

T.

R.

TOTAL DEPTH

1014'10"

CONTRACTOR

COMMENCED ?

COMPLETED ?

REMARKS

ALTITUDE

PRODUCTION

1050.1'

10"

8 1/4"

6 3/4"

SHOT

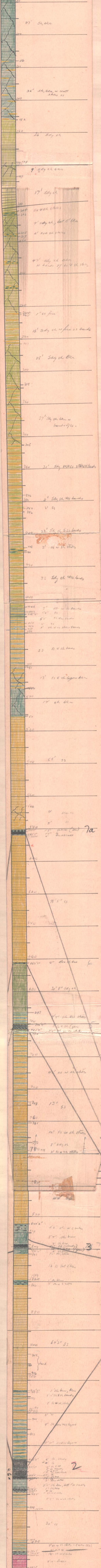
QUARTS

BETWEEN

00694

FORM 394 - In stock and for sale by Mid-West Fritz, Co., Tulsa

(L6)

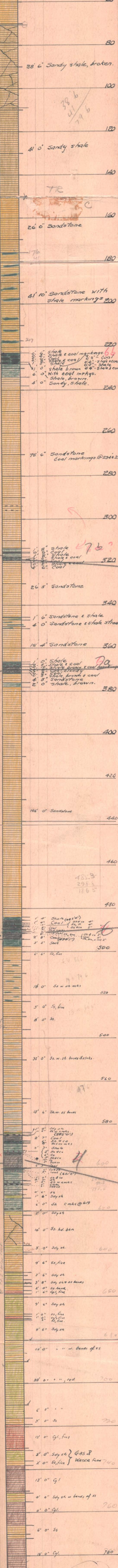


48

STATE		COMPANY <i>B.H. 48</i>	
COUNTY	FARM <i>(TR-48)</i>	WELL NO.	
BLOCK	SURVEY		
SEC.			
T.	R.	TOTAL DEPTH <i>796'</i>	
CONTRACTOR			
COMMENCED			
COMPLETED			
REMARKS			
ALTIUDE <i>377'</i>			
PRODUCTION			

CASING RECORD

	10"
	8 1/4"
2	6 3/4"
1	5 1/2"
1	4 1/2"
	SHOT QUARTS BETWEEN



50 STATE

COMPANY **TR-50/50A**

COUNTY FARM WELL NO.

BLOCK SURVEY #26

SEC. see Table P.

T. R. TOTAL DEPTH 390'

CONTRACTOR

COMMENCED

COMPLETED

REMARKS

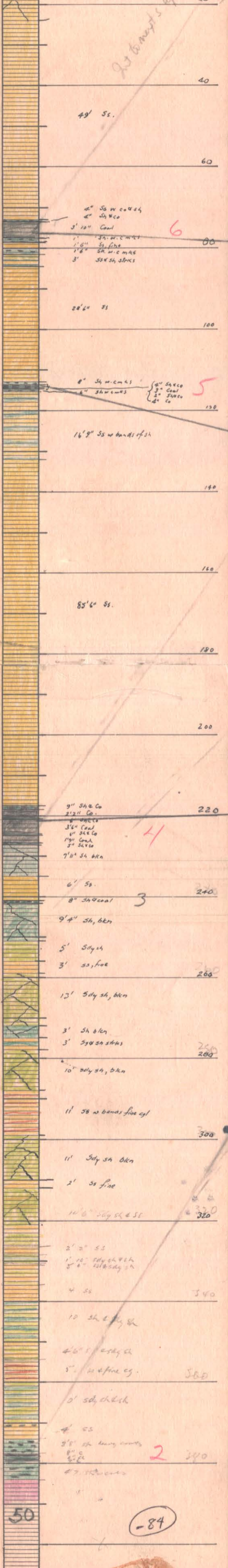
ALTITUDE

PRODUCTION

CASING RECORD

		10"
		8 1/4"
20'		6 3/4"
10'		5"
10'		
SHOT	QUARTS	BETWEEN

FORM 394 - In stock and for sale by Mid-West Petr. Co., Tulsa



(L9)

20 to 100 ft up

6

5

4

3

2

(-84)

50

CX-COMEX-~~111~~...*(3)

CANADIAN COLLIERIES (DUNSMUIR) BORE HOLES,
CUMBERLAND, LOGS OF OVERBURDEN

(Elevation Datum 2000' below HWM,
Union Bay)

B.H.s 1 - 24, drilled Sept. 1889-1897 - Little data.

B.H.s 8 - 13D, drilled 1900 ^{plus} to 1907 ^{plus} Little data.
_{minus} _{minus}

B.H.s 101 - , drilled Aug. 1910 on Full data, with minor exceptions.

Bore Hole No.	Material	Thickness	Depth	Elevation
CX-1 1	Collar	-	0' 0"	2489'
	"Surface"	3' 7"	3' 7"	2485'
	Sandstone			
CX-2 2	Collar	-	0' 0"	-?-
	"Surface"	10' 0"	10' 0"	
	Sandstone			
CX-3 3	Collar	-	0' 0"	2565'
	"Surface"	11' 0"	11' 0"	2554'
	Sandstone			
CX-4 4	Collar	-	0' 0"	2600'
	"Surface"	40' 6"	40' 6"	2559.5'
	Sandstone			
5	Collar	-	0' 0"	2605'
	"Surface"	7' 0"	7' 0"	2598'
	Sandstone			
6	Collar (Loc'n unknown)	-	0' 0"	??
	"Surface"	40' 6"	40' 6"	
	Conglomerate			
7	Collar	-	0' 0"	-?-
	Sandstone			
8	Collar	-	0' 0"	2546' (or 545'
	"Surface"	5' 0"	5' 0"	2541' feet)
	Sandstone			
9	Collar	-	0' 0"	2500' (or 499.0
	"Surface"	11' 0"	11' 0"	2489'
	Sandstone			
10	Collar	-	0' 0"	2652' plus/mi
	"Surface"	5' 0"	5' 0"	2647' -
	Sandstone			
11	Collar	-	0' 0"	2641' pl/min.
	"Gravel"	11' 0"	11' 0"	2630'
	Sandstone			
12	Collar	-	0' 0"	2620'
	"Gravel"	5' 0"	5' 0"	2615'
	Sandstone			
13	Collar	-	0' 0"	-?-
	"Surface"	6' 0"	6' 0"	
	Sandstone			
V etc. 14	Collar	-	0' 0"	2530'
	"Surface"	10' 0"	10' 0"	2520'
	Sandstone			

B.H.#	Material	Thickness	Depth	Elevation
15)				
16)	6 Hand bores	location unknown.		
17	Collar		0' 0"	2453'
	Gravel	3' 0"	3' 0"	2450.0
	Yellow clay	6' 6"	9' 6"	2443.5
	"Cement"	1' 8"	11' 2"	2442'
	Shale			
18	Collar		0' 0"	2444'
	Soil & Gravel	3' 0"	3' 0"	2441'
	Yellow clay	9' 0"	12' 0"	2432'
	Blue clay	9' 0"	21' 0"	2423'
	Soft cement with boulders	13' 0"	34' 0"	2410'
	Shale			
19	Collar		0' 0"	2565'
	"Surface"	23' 0"	23' 0"	2542'
	Sandstone			
20	Collar		0' 0"	2467'
	"Surface"	15' 6"	15' 6"	2451.5'
	Shale			
21	Collar		0' 0"	2445'
	"Surface"	31' 0"	31' 0"	2414'
	Shale			
22	Collar		0' 0"	2441'
	"Surface"	70' 0"	70' 0"	2371'
	Shale			
23	Collar		0' 0"	2480'
	"Surface"	80' 0"	80' 0"	2400'
	Sandstone			
24	Collar		0' 0"	2359'
	Surface	67' 0"	67' 0"	2292'
	Shale			
8D	Collar		0' 0"	2433'
	"Surface"	50' 0"	50' 0"	2383
	Sandstone			
9D	Collar		0' 0"	2424'
	Surface	33' 0"	33' 0"	2391'
	Sandstone			
10D	Collar		0' 0"	2414'
	"Surface"	33' 0"	33' 0"	2381'
	Sandstone			
11D	Collar		0' 0"	2376'
	"Surface"	37' 0"	37' 0"	2339'
	Sandstone			
12D	Collar		0' 0"	2320.5'
	"Surface"	16' 0"	16' 0"	2304.5
	Shale			
13D	Collar		0' 0"	2303.6
	Surface	12' 0"	12' 0"	2291.6
	Shale			

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B.H. #	Material	Thickness	Depth	Elevation
101	Collar		0' 0"	2286.0
	"Surface Drift" (Sandy shale)	26' 8"	21' 8"	2259.3
102	Collar		0' 0"	2323.0
	Hardpan	10' 0"	10' 0"	2313.0
	Gravel & Sand	1' 0"	11' 0"	2312.0
	Boulders	9' 0"	20' 0"	2303.0
	Heavy flow water	-	-	2303.0
	Hardpan	9' 0"	29' 0"	2294.0
	Sand & Gravel (Shale)	10' 0"	39' 0"	2284.0
103	Collar		0' 0"	2269.0
	Gravel	20' 0"	20' 0"	2249.0
	Sand & Gravel	26' 0"	46' 0"	2223.0
	Gravel & Sand	8' 0"	54' 0"	2215.0
	Gravel	4' 0"	58' 0"	2211.0
	Gravel & Broken Rock (Sandstone)	7' 6"	65' 6"	2203.5
104	Collar		0' 0"	2260.0
	Sand & Clay	10' 0"	10' 0"	2250.0
	Sand & Gravel	8' 0"	18' 0"	2242.0
	Hardpan (Sandstone)	10' 0"	28' 0"	2232.0
105	Collar		0' 0"	2344.0
	Hardpan & Boulders	55' 0"	55' 0"	2289.0
	Sand & Boulders	2' 0"	57' 0"	2287.0
	Hardpan & Boulders	3' 0"	60' 0"	2284.0
	Gravel & Boulders	14' 0"	74' 0"	2270.0
	Fine Gravel (Shale)	5' 0"	79' 0"	2265.0
106	Collar		0' 0"	2323.0
	Sand & Clay	10' 0"	16' 0"	2307.0
	Gravel (Sandy shale)	4' 0"	20' 0"	2303.0
107	Collar		0' 0"	2267.0
	Clay	8' 0"	8' 0"	2259.0
	Gravel & Boulders (Sandy shale)	9' 0"	17' 0"	2250.0
108	Collar		0' 0"	2217.0
	Sand & Gravel	5' 0"	5' 0"	2212.0
	Boulders (Sandy shale)	4' 0"	9' 0"	2208.0
109	Collar		0' 0"	2276.0
	Coarse gravel & large boulders (Sandstone)	36' 0"	36' 0"	2240.0
110	Collar (Elev. unknown)		0' 0"	
	Boulders & Gravel (Sandy shale)	10' 0"	10' 0"	
111	Collar		0' 0"	
	Gravel and boulders (Sandstone)	28' 0"	28' 0"	
112	Collar		0' 0"	2253.0
	Gravel and boulders	6' 0"	6' 0"	2247.0
	Gravel (Sandstone)	6' 0"	12' 0"	2241.0

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B.H. #	Material	Thickness	Depth	Elevation
113	Collar		0' 0"	
	Boulders & Gravel with water (Sandy shale)	17' 0"	17' 0"	
114	Collar		0' 0"	
	Coarse gravel (Sandstone)	7' 0"	7' 0"	
115	Collar		0' 0"	2233.0
	Sand & Gravel	3' 0"	3' 0"	2230.0
	Gravel & some clay	7' 0"	10' 0"	2223.0
	Boulders & Gravel (Sandy shale)	1' 0"	11' 0"	2222.0
116	Collar		0' 0"	2375.0
	Surface (Sandstone)	22' 0"	22' 0"	2353.0
117	Collar		0' 0"	
	Boulders	14' 0"	14' 0"	
	Gravel & Boulders	11' 0"	25' 0"	
	Gravel & blue clay (Sandy shale)	51' 0"	76' 0"	
118	Collar		0' 0"	2389.0
	Surface gravel (Sandstone)	10' 0"	10' 0"	2379.0
119	Collar		0' 0"	2282.0
	Sand	3' 0"	3' 0"	2279.0
	Gravel	15' 0"	18' 0"	2264.0
	Coarse gravel	3' 0"	21' 0"	2261.0
	Gravel	5' 0"	26' 0"	2256.0
	Coarse gravel (Sandy shale)	1' 0"	27' 0"	2255.0
120	Collar		0' 0"	
	"Surface" (Sandy shale)	15' 0"	15' 0"	
121	Collar		0' 0"	
	Gravel	28' 0"	28' 0"	
	Gravel quicksand	6' 0"	34' 0"	
	Blue clay & coarse gravel	6' 0"	40' 0"	
	Coarse gravel (Shale)	6' 0"	46' 0"	
122	Collar		0' 0"	2351.0
	Sand and gravel	8' 0"	8' 0"	2343.0
	Gravel	7' 0"	15' 0"	2336.0
	Brown & blue clay	6' 0"	21' 0"	2330.0
	Gravel & boulders	11' 0"	32' 0"	2319.0
	Gravel & sand	8' 0"	40' 0"	2311.0
	Coarse gravel (Sandy shale)	2' 0"	42' 0"	2309.0
123	Collar		0' 0"	2287.0
	Hard pan & gravel	5' 0"	5' 0"	2282.0
	Gravel	2' 0"	7' 0"	2280.0
	Gravel & hard pan	8' 0"	15' 0"	2272.0
	Gravel, hardpan & clay	10' 0"	25' 0"	2262.0
	Gravel & boulders	3' 0"	28' 0"	2259.0
	Boulders	3' 0"	31' 0"	2256.0
	Coarse gravel	3' 0"	34' 0"	2253.0
	Sand & Gravel	9' 0"	43' 0"	2244.0
	Boulders (Shale)	1' 0"	44' 0"	2243.0

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B.H.#	Material	Thickness	Depth	Elevation	
124	Collar		0' 0"	2465.0	
	Sand	5' 0"	5' 0"	2460.0	
	Clay	27' 0"	32' 0"	2433.0	
	Hard black clay mixed with coarse gravel	18' 0"	50' 0"	2415.0	
	Gravel	1' 0"	51' 0"	2414.0	
	(Shale)				
125	Collar		0' 0"	2494.0	
	Hard brown clay	5' 0"	5' 0"	2489.0	
	Sandstone boulder	3' 0"	8' 0"	2486.0	
	Sand and gravel	2' 0"	10' 0"	2484.0	
	(Sandstone)				
126	Collar		0' 0"	2486.0	
	Coarse gravel & sand	8' 0"	8' 0"	2478.0	
	Boulders & coarse gravel	6' 0"	14' 0"	2472.0	
	Coarse gravel	8' 0"	22' 0"	2464.0	
	Bluish sand	10' 0"	32' 0"	2454.0	
	Coarse bluish gravel	2' 0"	34' 0"	2452.0	
	Boulders and coarse gravel	2' 0"	36' 0"	2450.0	
	Coarse gravel	0' 6"	36' 6"	2449.5	
	(Sandy shale)				
127	Collar		0' 0"	2516.3	
	Loose soil & small bould.	3' 0"	3' 0"	2513.3	
	Coarse sand & gravel with small boulders	7' 0"	10' 0"	2506.3	
	Hard coarse sand and gravel	26' 0"	36' 0"	2480.3	
	Layers of fine sand, coarse sand, and gravel with boulders	18' 0"	54' 0"	2462.3	
	Fine sand	4' 0"	58' 0"	2458.3	
	Fine sand & gravel	4' 0"	62' 0"	2454.3	
	Gravel	1' 0"	63' 0"	2453.3	
	Gravel and fine sand	2' 0"	65' 0"	2451.3	
	Coarse sand	1' 0"	66' 0"	2450.3	
	Coarse gravel	2' 0"	68' 0"	2448.3	
	Coarse gravel with coarse sand	4' 0"	72' 0"	2444.3	
	Coarse gravel with fine sand	2' 0"	74' 0"	2442.3	
	Coarse gravel with coarse sand	6' 0"	80' 0"	2436.3	
	Coarse gravel	1' 0"	81' 0"	2435.3	
	Coarse sand & coarse gravel	2' 0"	83' 0"	2432.3	
	Sand & Gravel	3' 0"	86' 0"	2429.3	
	Hard sand, gravel & boulds.	17' 0"	103' 0"	2412.3	
	Fine sand	6' 0"	109' 0"	2406.3	
	Gravel	3' 0"	112' 0"	2403.3	
	Fine sand	6' 6"	118' 6"	2397.8	
	Loose gravel	4' 6"	123' 0"	2393.3	
	Hard white fine sand	17' 0"	140' 0"	2376.3	
	Layers of hard fine sand & clay	10' 0"	150' 0"	2366.3	
	Grey clay full of coarse gravel	6' 0"	156' 0"	2360.3	
	Coarse sand & gravel, small boulders	22' 0"	178' 0"	2338.3	
	(Sandstone)				
	128	Collar		0' 0"	2409.8
		"Surface"	10' 0"	10' 0"	2399.8
		Coarse gravel	14' 0"	14' 0"	2395.8
		Hardpan	4' 0"	18' 0"	2391.8

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B.H. #	Material	Thickness	Depth	Elevation
128 continued	Coarse gravel	3' 0"	21' 0"	2388.8
	Hardpan	4' 0"	25' 0"	2384.8
	Large boulders	2' 0"	27' 0"	2382.8
	Coarse gravel	3' 0"	30' 0"	2479.8
	Boulders	2' 0"	32' 0"	2477.8
	Coarse gravel	5' 0"	37' 0"	2472.8
	Hardpan	2' 0"	39' 0"	2470.8
	Coarse gravel (Sandstone)	0' 10"	39' 10"	2469.9
129	Collar		0' 0"	2377.5
	"Surface" (Sandstone)	5' 0"	5' 0"	2372.5
130	Collar		0' 0"	2408.1
	"Surface"	5' 0"	5' 0"	2403.1
	Packed clay	15' 0"	20' 0"	2388.1
	Coarse gravel & boulders (Sandstone)	1' 11"	21' 11"	2386.2
131	Collar		0' 0"	2408.3
	"Surface"	5' 0"	5' 0"	2403.3
	Packed clay	16' 0"	21' 0"	2387.3
	Coarse gravel (Sandstone)	3' 9"	24' 9"	2383.5
132	Collar		0' 0"	2433.8
	"Surface"	4' 0"	4' 0"	2429.8
	Hardpan	6' 0"	10' 0"	2423.8
	Coarse gravel	3' 0"	13' 0"	2420.8
	Coarse gravel & boulders	3' 6"	16' 6"	2417.3
	Coarse gravel	7' 6"	24' 0"	2409.8
	Sand	1' 0"	25' 0"	2408.8
	Coarse gravel	4' 0"	29' 0"	2404.8
	Hardpan	3' 0"	32' 0"	2401.8
	Boulders	3' 0"	35' 0"	2398.8
	Clay & boulders	4' 0"	39' 0"	2394.8
	Coarse gravel, clay & boulders	2' 6"	41' 6"	2392.3
	Hardpan (Sandstone)	3' 0"	44' 6"	2389.3
	133	Collar		0' 0"
"Surface"		5' 0"	5' 0"	2430.0
Coarse gravel		2' 6"	7' 6"	2427.5
Blue clay		13' 6"	21' 0"	2414.0
Coarse gravel		11' 0"	32' 0"	2403.0
Coarse gravel & boulders		1' 6"	33' 6"	2401.5
Hardpan & boulders		1' 6"	35' 0"	2400.0
Boulders & coarse gravel		2' 4"	37' 4"	2397.7
Boulders & hardpan (Sandstone)		9' 0"	46' 4"	2388.7
134		Collar		0' 0"
	"Surface"	3' 0"	3' 0"	2441.0
	Compressed clay	20' 0"	23' 0"	2421.0
	Hardpan	2' 0"	25' 0"	2419.0
	Hardpan & gravel wash	1' 6"	26' 6"	2417.5
	Gravel wash	3' 6"	30' 0"	2414.0
	Coarse gravel	4' 6"	34' 6"	2409.5
	Gravel wash (Sandstone)	3' 0"	37' 6"	2406.5
135	Collar		0' 0"	2461.0
	"Surface" (Sandstone)	6' 0"	6' 0"	2455.0

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B.H.#	Material	Thickness	Depth	Elevation
136	Collar "Surface" (Sandstone)	7' 0"	0' 0" 7' 0"	2500.0 2493.0
137	Collar Soil (Conglomerate)	1' 0"	0' 0" 1' 0"	2655.0 2654.0
138	Collar Hard blue clay & boulders (Conglomerate)	12' 0"	0' 0" 12' 0"	2677.0 2665.0
139	Collar "Surface soil" (Sandstone)	3' 0"	0' 0" 3' 0"	2563.0 2560.0
140	Collar Sand & gravel Coarse gravel (Sandstone)	10' 0" 5' 0"	0' 0" 10' 0" 15' 0"	2546.0 2536.0 2531.0
141	Collar Sand & gravel (Sandstone)	8' 0"	0' 0" 8' 0"	2555.0 2547.0
- 142	Collar Sand & gravel Gravel & boulders (Sandstone)	6' 0" 9' 0"	0' 0" 6' 0" 15' 0"	2514.0 2508.0 2499.0
143	Collar Gravel & boulders Sandy clay, hard & compressed Sand & gravel Gravel (Sandstone)	6' 0" 10' 0" 7' 0" 2' 0"	0' 0" 6' 0" 16' 0" 23' 0" 25' 0"	2393.0 2387.0 2377.0 2370.0 2368.0
144	Collar Sand & gravel Boulders & gravel Fine sand & hard clay Clay Coarse gravel Boulders & gravel Gravel & Sand Sand & boulders Sand & gravel (Shale)	16' 0" 23' 0" 10' 0" 12' 0" 2' 0" 23' 0" 8' 0" 6' 0" 19' 0"	0' 0" 16' 0" 39' 0" 49' 0" 61' 0" 63' 0" 86' 0" 94' 0" 100' 0" 119.0"	2494.0 2478.0 2455.0 2445.0 2433.0 2431.0 2408.0 2400.0 2394.0 2375.0
145	Collar Gravel & boulders Gravel & sand Coarse gravel Clay Coarse gravel Gravel & boulders Gravel (Sandstone)	29' 0" 11' 0" 5' 0" 21' 0" 19' 0" 4' 0" 3' 0"	0' 0" 29' 0" 40' 0" 45' 0" 66' 0" 85.0" 89' 0" 92' 0"	2496.0 2467.0 2456.0 2461.0 2440.0 2421.0 2417.0 2414.0
146	Collar Gravel & boulders Gravel & sand Fine sand Gravel Fine sand Hard clay Gravel & boulders (Sandstone & shale)	15' 0" 12' 0" 13' 0" 16' 0" 13' 0" 6' 0" 88' 0"	0' 0" 15' 0" 27' 0" 40' 0" 56' 0" 69' 0" 75' 0" 163.0"	2498.0 2483.0 2471.0 2458.0 2442.0 2429.0 2423.0 2335.0

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B.H. #	Material	Thickness	Depth	Elevation
147	Collar		0' 0"	2516.0
	Gravel	8' 0"	8' 0"	2508.0
	Coarse gravel & boulders	3' 0"	11' 0"	2505.0
	Coarse gravel	10' 0"	21' 0"	2495.0
	Gravel	15' 0"	36' 0"	2480.0
	Gravel, sand, layers of clay	20' 0"	56' 0"	2460.0
	Fine sand & gravel (Sandstone)	13' 0"	69' 0"	2447.0
148	Collar		0' 0"	2392.0
	Clay, hard (Sandstone)	18' 0"	18' 0"	2374.0
149	Collar		0' 0"	2507.0
	Gravel & boulders	5' 0"	5' 0"	2502.0
	Boulders & coarse gravel	18' 0"	23' 0"	2484.0
	Fine sand	13' 0"	36' 0"	2471.0
	Coarse gravel	2' 0"	38' 0"	2469.0
	Gravel (Sandstone)	3' 0"	41' 0"	2466.0
150	Collar		0' 0"	2371.6
	Gravel & boulders	15' 0"	15' 0"	2356.6
	Coarse gravel	13' 0"	28' 0"	2343.6
	Boulders & gravel	10' 0"	38' 0"	2333.6
	Clay & fine sand	20' 0"	58' 0"	2313.6
	Gravel	4' 0"	62' 0"	2309.6
	Gravel & boulders	16' 0"	78' 0"	2293.6
	Boulders & gravel	4' 0"	82' 0"	2289.6
	Boulders	3' 0"	85' 0"	2286.6
	Gravel & boulders (Sandstone)	4' 0"	89' 0"	2282.6
151	Collar		0' 0"	2535.0
	Coarse gravel	22' 0"	22' 0"	2513.0
	Coarse gravel & boulders	9' 0"	31' 0"	2504.0
	Coarse gravel	22' 0"	53' 0"	2482.0
	Gravel & boulders	25' 0"	78' 0"	2457.0
	Gravel	10' 0"	88' 0"	2447.0
	Sand and gravel	9' 0"	97' 0"	2438.0
	Sand	10' 0"	107' 0"	2428.0
	Gravel (Sandstone)	6' 0"	113' 0"	2422.0
152	Hole for pipe to pump water out of No. 7 Mine - percussion drill - no log.			
153	Collar		0' 0"	2437.0
	Gravel & hard clay	17' 0"	17' 0"	2420.0
	Gravel & sand	8' 0"	25' 0"	2412.0
	Gravel & boulders (Sandstone)	7' 0"	32' 0"	2405.0
154	Hole for pipe to pump water out of No. 4 Mine - percussion drill - no log.			
155	Collar		0' 0"	2436.0
	Sand & gravel	8' 0"	8' 0"	2428.0
	Clay	6' 0"	14' 0"	2422.0
	Coarse gravel	4' 0"	18' 0"	2418.0
	Clay & gravel	5' 0"	23' 0"	2413.0
	Gravel & boulders	6' 0"	29' 0"	2407.0
	Boulders & clay (Sandstone)	4' 0"	33' 0"	2403.0

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B.H. #	Material	Thickness	Depth	Elevation
156	Collar		0' 0"	2502.0
	Gravel & boulders	19' 0"	19' 0"	2483.0
	Gravel	41' 0"	60' 0"	2442.0
	Hard clay	5' 0"	65' 0"	2437.0
	Gravel & boulders (Sandstone)	51' 0"	116' 0"	2386.0
157	Collar		0' 0"	2470.0
	Sand & gravel	3' 0"	3' 0"	2467.0
	Hard blue clay & boulders (Sandstone)	7' 6"	10' 6"	2459.5
158	Collar		0' 0"	2474.0
	Soil	2' 0"	2' 0"	2472.0
	Hard brown clay	4' 0"	6' 0"	2468.0
	Boulders & gravel (Sandstone)	1' 0"	7' 0"	2467.0
159	Collar		0' 0"	2469.0
	"Surface" (Shale)	8' 0"	8' 0"	2461.0
160	Collar		0' 0"	2493.2
	Soil (Sandstone)	4' 0"	4' 0"	2489.2
161	Collar		0' 0"	2456.0
	Brown clay	17' 0"	17' 0"	2439.0
	Sand & gravel (Shale)	2' 0"	19' 0"	2437.0
162	Collar		0' 0"	2440.0
	"Bog"	15' 0"	15' 0"	2425.0
	Blue clay	12' 0"	27' 0"	2413.0
	Sand & gravel (Shale)	1' 0"	28' 0"	2412.0
163	Collar		0' 0"	2438.0
	Soil	3' 0"	3' 0"	2435.0
	Blue clay	4' 0"	7' 0"	2431.0
	Gravel	5' 0"	12' 0"	2426.0
	Sand & gravel	38' 0"	50' 0"	2388.0
	Coarse gravel	2' 0"	52' 0"	2386.0
	Gravel (Shale)	5' 0"	57' 0"	2381.0
164	Collar		0' 0"	2449.0
	Red sand (Sandstone)	2' 0"	2' 0"	2447.0
165	Collar		0' 0"	441.9
	Hard brown clay	6' 0"	6' 0"	435.9
	Brown clay	5' 0"	11' 0"	430.9
	Sand & gravel	7' 0"	18' 0"	423.9
	Gravel (Shale)	1' 6"	19' 6"	422.4
166	Collar		0' 0"	439.1
	Sand & gravel	35' 0"	35' 0"	404.1
	Gravel	6' 0"	41' 0"	398.1
	Sand & gravel (top 7' at least)	16' 0"	57' 0"	382.1
	Gravel called "coarse"	11' 0"	68' 0"	371.1
	Gravel & sand	8' 0"	76' 0"	363.1
Gravel (Shale)	17' 6"	93' 6"	345.6	
167	Collar		0' 0"	2312.0
	Gravel & boulders	36' 0"	36' 0"	2276.0
	Gravel & clay (Shale)	2' 0"	38' 0"	2274.0

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B.H. #	Material	Thickness	Depth	Elevation
168	Collar		0' 0"	339.5
	Sand	56' 0"	56' 0"	283.5
	Gravel, clay & boulders	6' 0"	62' 0"	277.5
	Gravel & boulders (Sandstone)	5' 6"	67' 6"	272.0
169	Collar		0' 0"	276.2
	"Surface" (Shale)	13' 0"	13' 0"	263.2
170	Collar		0' 0"	2239.0
	Mixture of gravel & clay	7' 0"	7' 0"	2232.0
	Sand	10' 0"	17' 0"	2222.0
	Gravel	71' 0"	88' 0"	2151.0
	Sand with boulders	5' 0"	93' 0"	2146.0
	Very coarse gravel	10' 0"	103' 0"	2136.0
	Compact sand & boulders	5' 0"	108' 0"	2131.0
	Gravel	11' 0"	119' 0"	2120.0
	Sand with small boulders (Shale)	16' 0"	135' 0"	2104.0
171	Collar		0' 0"	370.0
	Sand & gravel	15' 0"	15' 0"	355.0
	Fine blue sand & clay in layers	25' 0"	40' 0"	330.0
	Coarse gravel (Shale)	2' 0"	42' 0"	328.0
172	Collar		0' 0"	2508.4
	"Surface" (Sandstone)	37' 6"	37' 6"	2470.9
173	Collar		0' 0"	466.0
	Gravel (Shale)	35' 0"	35' 0"	431.0
174	Collar		0' 0"	441.0
	No record	17' 0"	17' 0"	424.0
	Coarse gravel & boulders	7' 0"	24' 0"	417.0
	No record (Blasting boulders @ 48')	24' 0"	48' 0"	393.0
	Coarse gravel & boulders	5' 0"	53' 0"	388.0
	No record	12' 0"	65' 0"	376.0
	(Note: Material not recorded prob. gravel & sand - seems to note coarse gravel & blds. to explain slow progress) (Sandstone)			
175	Collar		0' 0"	2563.6
	"Surface" est.	40' 0"	40' 0"	2523.6
	Large boulders & grvl. "	10' 0"	50' 0"	2513.6
	Sand & blue clay " (Shale & coal)	6' 0"	56' 0"	2507.6
176	Collar		0' 0"	399.5
	"Surface"	88' 0"	88' 0"	311.5
	(No record but drilled v. fast prob. gravel & sand) (Shale)			
177	Collar		0' 0"	322.0
	Gravel	3' 0"	3' 0"	319.0
	Brown clay	4' 0"	7' 0"	315.0
	Coarse gravel	8' 0"	15' 0"	307.0
	Boulder	1' 0"	16' 0"	306.0
	Boulders & crse gravel	2' 0"	18' 0"	304.0
	Crse gravel	2' 0"	20' 0"	302.0
	" " & boulders	3' 0"	23' 0"	299.0
	Boulders	1' 0"	24' 0"	298.0
	Boulders crse gravel	3' 0"	27' 0"	295.0
	Gravel	2' 0"	29' 0"	293.0
	Boulders (Shale)	2' 6"	31' 6"	290.5

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B.H. #	Material	Thickness	Depth	Elevation
178	Collar		0' 0"	2600.0
	"Surface" (Shale)	15' 0"	15' 0"	2585.0
179	Collar		0' 0"	2440.0
	Coarse gravel	20' 0"	20' 0"	2420.0
	Clay with big boulders (Shale)	46' 0"	66' 0"	2374.0
180	Collar		0' 0"	2442.0
	Fine blue clay	30' 0"	30' 0"	2412.0
	Very coarse gravel	30' 0"	60' 0"	2382.0
	tight gravel & boulders	20' 0"	80' 0"	2362.0
	clay with big boulders (Shale)	12' 0"	92.0"	2350.0
181	Collar		0' 02"	2479.1
	Gravel (Sandstone)	13' 0"	13' 0"	2466.1
182	Collar		0' 0"	2497.4
	Gravel ??	24' 0"	24' 0"	2473.4
	Coarse gravel & boulders (Sandstone)	12' 0"	36' 0"	2461.4
183	Collar		0' 0"	2452.0
	Coarse gravel & boulders Trap.	43' 8"	43' 8"	2408.3
184	Collar		0' 0"	2517.0
	Gravel (Sandstone)	17' 0"	17' 0"	2500.0
185	Collar		0' 0"	2212.0
	Sandy loam	2' 0"	2' 0"	2210.0
	Packed gravel & boulders	5' 0"	7' 0"	2205.0
	Gravel with clay (Shale)	2' 6"	9' 6"	2202.5
186	Collar		0'	2244.1
	Floor to ground	1' 0"	1' 0"	2243.1
	Black soil	1' 0"	2' 0"	2242.1
	Gravel & boulders	1' 6"	3' 6"	2240.6
	Clay with gravel	2' 0"	5' 6"	2238.6
	Gravel & boulders (Boulder at 6')	1' 0"	6' 6"	2237.6
	" " with clay lg. bld. @ 13)	6' 6"	13' 0"	2231.1
	Boulder	3' 0"	16' 0"	2228.1
	Gravel & boulders	2' 0"	18' 0"	2226.1
	" " with clay	3' 0"	21' 0"	2223.1
	Loose gravel	5' 0"	26' 0"	2218.1
	Gravel & clay	9' 0"	35' 0"	2209.1
	Clay with sand & gravel	21' 0"	56' 0"	2188.1
	Gravel	9' 0"	65' 0"	2179.1
	"Shale"	1' 0"	66' 0"	2178.1
	Gravel & boulder "Shale"	2' 0"	68' 0"	2176.1
	187	Collar		0' 0"
Sandy loam		4' 6"	4' 6"	2271.9
Clay		4' 0"	8' 6"	2267.9
Sand		1' 6"	10' 0"	2266.4
Sand with clay		2' 0"	12' 0"	2264.4
Clay		16' 0"	28' 0"	2248.4
Clay & gravel		2' 0"	30' 0"	2246.4

(Shale)

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B.H. #	Material	Thickness	Depth	Elevation
188	Collar		0' 0"	2032.2
	Loam	2' 0"	2' 0"	2030.2
	Gravel & boulders	11' 0"	13' 0"	2019.2
	Gravel & boulders with clay	2' 0"	15' 0"	2017.2
	Gravel & boulders (Shale)	11' 6"	26' 6"	2005.7
189	Collar	0'	0' 0"	2149.1
	Sandy loam with pebbles	4' 0"	4' 0"	2145.1
	" " & gravel	4' 0"	8' 0"	2141.1
	Gravel w. boulders	5' 0"	13' 0"	2136.1
	Gravel w. a little clay	3' 0"	16' 0"	2133.1
	Gravel & boulders	4' 6"	20' 6"	2128.6
	Gravel & clay (Shale)	2' 6"	23' 0"	2126.1
190	Collar		0' 0"	2018.0
	Sandy loam & boulders	6' 0"	6' 0"	2012.0
	Gravel & boulders with clay	12' 0"	18' 0"	2000.0
	Gravel & boulders	3' 0"	21' 0"	1997.0
	Gravel & boulders with clay	3' 0"	24' 0"	1994.0
	Gravel & boulders	4' 0"	28' 0"	1990.0
	Gravel with clay (Shale)	16' 0"	44' 0"	1974.0
191	Collar		0' 0"	2207.6
	Sandy loam	5' 0"	5' 0"	2202.6
	Sand	3' 0"	8' 0"	2199.6
	Clay	5' 0"	13' 0"	2194.6
	Clay & gravel (Shale)	1' 0"	14' 0"	2193.6
192	Collar		0' 0"	2218.7
	Floor to ground	1' 0"	1' 0"	2217.7
	Loam	1' 0"	2' 0"	2216.7
	Gravel	3' 0"	5' 0"	2213.7
	Gravel & sand with clay	9' 0"	14' 0"	2204.7
	Gravel & sand	6' 0"	20' 0"	2198.7
	Gravel sand & clay	2' 0"	22' 0"	2196.7
	Gravel & sand with clay (Shale)	3' 0"	25' 0"	2193.7
193	Collar		0' 0"	2362.0
	Loam	3' 0"	3' 0"	2359.0
	Packed clay & gravel	2' 0"	5' 0"	2357.0
	Gravel & boulders	6' 0"	11' 0"	2351.0
	Sand & gravel w. boulders	2' 0"	13' 0"	2349.0
	Gravel & sand (Sandstone)	2' 6"	15' 6"	2346.5
	194	Collar		0' 0"
Floor to ground		1' 0"	1' 0"	2511.0
Sand & gravel		3' 0"	4' 0"	2508.0
Gravel & boulders		8' 0"	12' 0"	2500.0
Gravel		31' 0"	43' 0"	2469.0
Gravel & sand		10' 0"	53' 0"	2459.0
Gravel & sand w. boulders		13' 6"	66' 6"	2445.5
Gravel & sand		2' 6"	69' 0"	2443.0
Sand with clay		43' 0"	113' 0"	2400.0
Sand & clay with gravel (Sandstone)		1'	112' 0"	2399.0

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B.H. #	Material	Thickness	Depth	Elevation
195	Collar		0' 0"	516.0
	Gravel	4' 0"	4' 0"	512.0
	Gravel & boulders	6' 0"	10' 0"	506.0
	Gravel	3' 0"	13' 0"	503.0
	Gravel & sand	3' 0"	16' 0"	500.0
	Gravel & boulders	2' 0"	18' 0"	498.0
	Gravel	6' 0"	24' 0"	492.0
	Gravel & sand	4' 0"	28' 0"	488.0
	Gravel	4' 0"	32' 0"	484.0
	Boulders & coarse gravel	2' 0"	34' 0"	482.0
	Gravel & boulders	4' 0"	38' 0"	478.0
	Coarse gravel	9' 0"	47' 0"	469.0
	Gravel & sand	21' 0"	68' 0"	448.0
	Hard packed sand	4' 0"	72' 0"	444.0
	Gravel sand w. boulders	4' 0"	76' 0"	440.0
	Gravel & boulders	2' 0"	78' 0"	438.0
	Sand, gravel & boulders	6' 0"	84' 0"	432.0
	Sand & gravel	3' 0"	87' 0"	429.0
	Boulders	1' 0"	88' 0"	428.0
	Gravel & boulders	3' 0"	91' 0"	425.0
	Sand	11' 0"	102' 0"	414.0
	Sand & Gravel	8' 0"	110' 0"	406.0
	Sand	22' 0"	132' 0"	384.0
	Sand with clay	18' 0"	150' 0"	366.0
	Sand & gravel with boulders	3' 0"	153' 0"	363.0
	Loose gravel (Sandstone)	5' 0"	158' 0"	358.0
	196	Collar		0' 0"
Sand & gravel		3' 0"	3' 0"	2292.0
Hard packed gravel & clay		8' 0"	11' 0"	2284.0
Gravel & boulders		9' 0"	20' 0"	2275.0
Gravel & sand with little clay		2' 0"	22' 0"	2273.0
Gravel & sand with boulders		7' 0"	29' 0"	2267.0
Packed gravel		4' 0"	33' 0"	2263.0
Packed gravel & sand (Shale)		3'	36' 0"	2260.0
198	Collar		0' 0"	3677.0
	Sandy loam	1' 6"	1' 6"	3675.5
	Packed gravel & boulders (Sandstone)	10' 6"	12' 0"	3665.0
199	Collar		0' 0"	3834.0
	Fill of share & sandstone slabs (Sandstone)	8' 0"	8' 0"	3826.0
200	Collar		0' 0"	3895.0
	Peat & sandy loam (Sandstone)	2' 0"	2' 0"	3893.0
201	Collar		0' 0"	3911.0
	Loam (Sandstone)	2' 0"	2' 0"	3909.0
202	Collar		0' 0"	3940.0
	Sandy loam (Sandstone)	3' 0"	3' 0"	3937.0
203	Collar		0' 0"	3868.0
	Gravel & boulders	2' 0"	2' 0"	3866.0
	Sandstone boulder	5' 0"	7' 0"	3861.0
	Clay with gravel (Sandstone)	3' 0"	10' 0"	3858.0
204	Collar		0' 0"	
	Loam	2' 0"	2' 0"	
	Broken sandstone (Sandstone)	2' 0"	4' 0"	

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CANADIAN COLLIERIES (DUNSMUIR) LTD.
BORE HOLE No. 171
COMOX FIELD

CX-171
694

L1

Scale: 1" = 20'

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV. 370 ABOVE M.S.L. AT UNION BAY	DATE
Sand & Gravel		15' 0"	15' 0"	355.0	Dec 7 th 1922
Layers of fine blue sand & clay		26' 0"			
Coarse Gravel Shale		2' 0"	41' 0"	330.0	- 8"
		1' 0"	42' 0"	329.0	- 2"
		1' 0"	43' 0"	328.0	- 18"
White Clayey Shale		38' 0"			
					- 13"
Shif		8"	81' 0"	289.0	
White Clayey Shale		5' 4"	86' 4"	283.3	
Sandstone dirty med grain		1' 0"	87' 4"	282.3	
White Clayey Shale		2' 0"	89' 4"	280.0	
Sandstone dirty med grain		14' 0"			
			104' 0"	266.0	- 14"
Layers of White Clayey Shale & sandstone		6' 0"			
Dark Sandstone med grain		11' 0"	115' 0"	260.0	
White Clayey Shale		6' 0"	121' 0"	254.0	
Sandstone dirty med grain		6' 0"			
			118' 0"	252.0	
Layers of Shale & Sandstone		6' 0"			
Dark Sandstone med grain		4' 0"	124' 0"	246.0	
			128' 0"	242.0	
Dark Sandstone med grain with small pebbles of a white colour		21' 0"			- 15"
Shale & med grain dark Sandstone		5' 0"	149' 0"	221.0	
			154' 0"	216.0	
Dark Sandstone med grain with white pebbles		26' 0"			- 16"
			180' 0"	190.0	
White Clayey Shale with dark dark Sandstone & white pebbles		11' 0"	191' 0"	187.0	
Dark Sandstone med grain		3' 0"			
			194' 0"	176.0	- 18"
Dark Sandstone fine grain with white pebbles		2' 0"	196' 0"	174.0	
Dark Sandstone fine grain		3' 0"	199' 0"	171.0	
Dark Sandstone fine grain		3' 0"	202' 0"	167.0	
Shale Sandstone & pebbles		6' 0"			
Dark Sandstone fine grain		3' 0"	208' 0"	161.0	
Shale Sandstone & pebbles		3' 0"	211' 0"	158.0	
Dark Sandstone fine grain		6' 0"	217' 0"	153.0	
Shale, Sandstone & pebbles		4' 0"	221' 0"	149.0	
Dark Sandstone (fine grain) & pebbles		6' 0"	227' 0"	143.0	- 19"
Layers of white clayey shale with sandstone		13' 0"			
			244' 0"	126.0	- 20"
Conglomerate pebbles in broken shale		14' 0"			- 21"
			258' 0"	112.0	- 22"
Sandstone (broken)		16' 0"			- 23"
			274' 0"	96.0	- 25"
Conglomerate pebbles in mud		7' 0"			- 26"
			281' 0"	89.0	- 27"
Broken shale, sandstone, pebbles & mud		8' 0"			- 27"
			289' 0"	81.0	
Dark Sandstone (med. grain)		11' 0"			- 28"
			300' 0"	70.0	
Shale, sandstone & pebbles		3' 0"	303' 0"	68.0	
Conglomerate		3' 0"	306' 0"	65.0	- 29"
Broken shale & pebbles		33' 0"			- 30"
			338' 0"	32.0	Jan 2 nd 23
Dark Sandstone (broken)		8' 0"			- 3 rd
Conglomerate		3' 0"	346' 0"	24.0	
Sandy shale		6' 0"	352' 0"	15.0	- 4 th
					- 5 th
					- 6 th
					- 8 th
					- 10 th
					- 11 th
					- 12 th
					- 13 th
					- 14 th
					- 15 th
					- 16 th
					- 17 th
					- 18 th
					- 19 th
					- 20 th
					- 21 st
					- 22 nd
					- 23 rd
					- 24 th
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					- 31 st
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					- 100 th

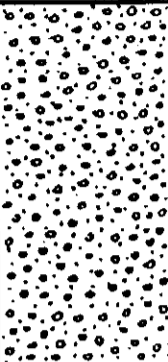
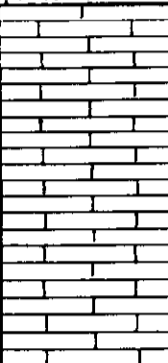
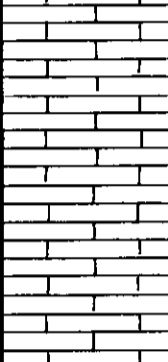
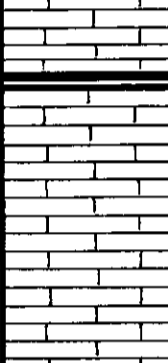


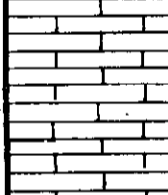
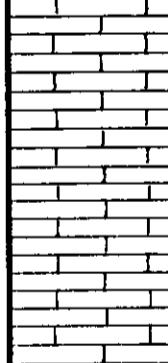
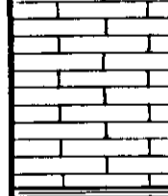
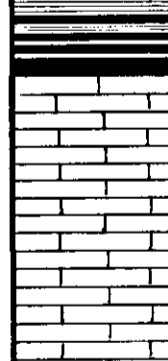
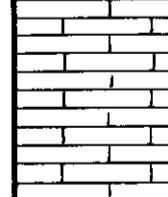
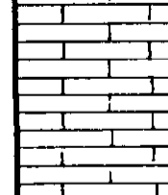
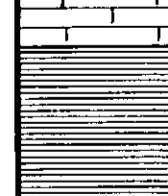

No. 2 (FIRM) SEAM ANALYSIS

Moisture	110
Volatile Matter	36.60
Fixed Carbon	52.77
Ash	5.53
	100.00

CANADIAN COLLIERIES (DUNSMUIR) LTD
BORE HOLE No 172
COMOX FIELD
 Scale 1"=20'

CX-172
694

L2

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV. 508.4 ABOVE M.S.L. AT UNION BAY	DATE
Surface		37' 5"	37' 5"	467.4	Jan 21 st 1923
					" 22 nd "
					" 23 rd "
Sandstone		82' 7"			" 24 th "
Coal Sandstone Coal		1' 0" 2" 6"	120' 0" 121' 0" 121' 2" 121' 8"	384.8 383.8 383.6 383.1	" 25 th "
Sandstone		58' 4"			" 26 th "
Shale Coal Shale Coal Shale Coal		1' 0" 6" 1' 0" 6" 1' 6" 3"	180' 0" 181' 0" 181' 6" 182' 6" 183' 0" 184' 6" 184' 9"	324.8 323.8 323.3 322.3 321.8 320.3 320.0	" 27 th "
Sandstone		101' 3"			" 28 th "
Shale Coal Shale Coal Shale Coal Shale Coal with Partings		2' 8" 10" 1' 0" 1' 0" 2" 1' 0" 2" 2' 2"	286' 0" 288' 8" 289' 6" 290' 6" 291' 6" 291' 8" 292' 8" 292' 10" 295' 0"	218.8 216.1 215.3 214.3 213.3 213.1 212.1 211.9 209.8	" 29 th "
Sandstone		75' 0"			" 30 th "
			370' 0"	134.8	" 31 st "
Shale		21' 6"			
Coal		2' 5"	391' 6" 393' 11"	113.3 110.9	Feb. 1 st "
Shale		11' 1"	405' 0"	99.8	" 2 nd "

No. 2 (FARM) SEAM
ANALYSIS

Moisture	1.15
Volatile Matter	34.58
Fixed Carbon	50.31
Ash	13.96
	<hr/> 100.00

CANADIAN COLLIERIES (DUNSMUIR) LTD.
BORE HOLE No.173
COMOX FIELD

Scale: - 1"=20'

CX-173

694

L3

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV ABOVE H.W.M. AT UNION BAY	DATE
Gravel		35:0"			
Shale		5:0"	35:0"	431.0	Feb. 16 th 1923
Sandstone		9:0"	40:0"	426.0	
Sandy Shale		25:0"	49:0"	417.0	" 17 th "
			74:0"	392.0	" 18 th "
					" 19 th "
					" 20 th "
Shale		102:0"			" 21 st "
					" 22 nd "
Sandstone		7:0"	176:0"	290.0	
Shale		30:0"	183:0"	283.0	
			213:0"	253.0	" 22 nd "
Sandstone		19:0"			
Coal		1:0"	232:0"	234.0	
			233:0"	233.0	" 23 rd "
					" 24 th "
Sandstone		161:0"			" 25 th "
					" 26 th "
Coal		2:0"	394:0"	72.0	
Shale		2:0"	396:0"	70.0	
Coal		7:0"	399:0"	67.0	
					" 27 th "
Sandstone		83:0"			" 28 th "
					" 29 th "
Shale		6:0"	482:0"	-16.0	
Coal		1:0"	483:0"	-22.0	
Shale		8:0"	489:0"	-23.0	
Coal		1:0"	497:0"	-31.0	Mar. 1 st "
Shale & Coal		2:0"	498:0"	-32.0	
Coal		8:0"	500:0"	-36.0	
Shale		1:6"	500:6"	-34.5	
			502:0"	-36.0	
					" 29 th "
Sandstone		64:0"			" 30 th "
					" 31 st "
Coal		1:0"	566:0"	-100.0	" 3 rd "
Shale		9:0"	567:0"	-101.0	
Coal		1:0"	576:0"	-110.0	
Shale		19:0"	577:0"	-111.0	" 4 th "
Coal		4:0"	596:0"	-130.0	
Shale		3:0"	600:0"	-134.0	
Coal		7:0"	600:7"	-134.9	
Shale		4:0"	607:0"	-138.0	
Coal		4:0"	607:4"	-135.7	
Shale		4:0"	608:0"	-136.7	
Coal & Shale		4:0"	608:4"	-138.7	
Shale		3:0"	608:0"	-138.0	
			608:0"	-142.0	" 5 th "
Sandstone		27:0"			" 6 th "
Shale		3:0"	635:0"	-169.0	
Coal		2:0"	639:0"	-173.0	
Shale		2:0"	641:0"	-175.0	
					" 7 th "
Sandstone		52:2"			" 8 th "
Shale		5"	693:0"	-227.2	
Sandstone		3"	693:3"	-227.6	
Shale with Sandstone Pkgs		3:6"	694:0"	-228.0	
Shale		1:6"	697:0"	-231.0	
Coal		1:6"	699:0"	-233.5	" 7 th "
Shale		2:6"	701:6"	-235.5	
Shale		3:6"	705:0"	-239.0	
					" 8 th "
Sandstone		79:0"			" 9 th "
					" 10 th "
Coal		2"	784:0"	-318.0	" 3 rd "
Shale		10"	784:10"	-318.0	
Coal & Shale		5:0"	789:0"	-324.0	
Shale		5:0"	795:0"	-329.0	" 10 th "
Trap		1:0"	796:0"	-330.0	

No. 2 (FARM) SEAM
ANALYSIS

Moisture	1.11
Volatile Matter	36.89
Fixed Carbon	55.22
Ash	5.80
	100.00

CANADIAN COLLIERIES (DUNSMUIR) LTD.
BORE HOLE No. 174
COMOX FIELD

Scale - 1"=20'

CX-174

694

L4

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV. ABOVE M.S.L. AT UNION BAY	DATE
Surface		65' 0"			
Grey Sandstone		20' 0"	65' 0"	376.0	Feb. 24 th 1898
Grey Shale		18' 0"	85' 0"	356.0	
Muddy Shale		38' 0"	103' 0"	338.0	27 th
Grey Shale		109' 0"	141' 0"	300.0	28 th
					Mar. 1 st
Sandstone		5' 0"	250' 0"	191.0	
			255' 0"	186.0	3 rd
Grey Shale		56' 0"			4 th
Sandstone		12' 0"	311' 0"	130.0	
			323' 0"	118.0	
Grey Shale		27' 0"			5 th
Sandstone		6' 0"	350' 0"	91.0	
Shale		2' 0"	356' 0"	85.0	
			358' 0"	83.0	
Sandstone		17' 0"			
Shale		5' 0"	375' 0"	66.0	
			384' 0"	57.0	6 th
					7 th
Sandstone		175' 0"			8 th
					9 th
Coal		6"	559' 0"	-118.0	
Shale		7' 0"	559' 6"	-118.5	
Coal		1' 0"	566' 6"	-125.5	
Shale		2"	567' 2"	-126.2	
Coal		2"	569' 3"	-129.3	10 th
Shale		3"	569' 5"	-129.5	
Coal		3"	569' 10"	-129.0	
Sandstone		25' 0"			
			595' 0"	-154.0	
Sandstone with bands of Shale		25' 0"			
			620' 0"	-179.0	11 th
Shale		21' 0"			
			641' 0"	-200.0	12 th
Sandstone		7' 0"			
Coal		2' 0"	648' 0"	-207.0	
Shale		4' 6"	650' 0"	-209.0	
Coal		4"	654' 6"	-213.5	
Shale		5' 2"	654' 10"	-213.8	
Bony Coal		3"	660' 0"	-219.0	
Shale		8' 3"	660' 3"	-219.7	
			669' 0"	-228.0	13 th
					14 th
Sandstone		62' 0"			
					15 th
Shale		3' 0"	731' 0"	-290.0	
Coal		6"	734' 0"	-293.0	
			734' 6"	-293.5	
Shale		32' 6"			16 th
Coal		6"	767' 0"	-326.0	
Shale		6"	767' 2"	-326.2	
Coal		1' 0"	768' 0"	-327.0	
Shale		1' 0"	769' 0"	-328.0	
			770' 0"	-329.0	17 th
Sandstone		33' 0"			
					18 th
Shale (brown)		3' 6"	803' 0"	-362.0	
Coal		2"	807' 2"	-366.2	
Shale		1' 0"	807' 8"	-366.8	
Coal		1' 0"	809' 8"	-367.8	
Shale		1' 4"	810' 0"	-369.0	
Sandstone		50' 2"			Apr. 5 th
					6 th
Coal		1' 10"	860' 2"	-419.2	
			862' 0"	-421.0	
					7 th
Shale		48' 0"			8 th
					9 th
Coal		2' 0"	910' 0"	-469.0	
			912' 0"	-471.0	10 th
					11 th
Shale		41' 0"			12 th
					13 th
Coal & Shale		3' 0"	953' 0"	-512.0	
			956' 0"	-515.0	14 th
Shale		52' 0"			15 th
					16 th
Trap		7' 0"	1008' 0"	-567.0	
			1015' 0"	-574.0	17 th

CANADIAN COLLIERIES (DUNSMUIR) LTD.

BORE HOLE No. 175

COMOX FIELD

Scale:- 1"=20'

CX-175
694
LS

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV. 563.6 ABOVE H.W.M. AT UNION BAY	DATE
Surface		56'-0"			
Shale & Coal		7'-0"	56'-0" 63'-0"	507.6 500.6	Apr 5 th 23
Sandstone		72'-0"			" 6 th "
			135'-0"	428.6	
Shale with bands of Sandst.		23'-0"			" 7 th "
Sandstone		3'-0"	158'-0" 161'-0"	405.6 402.6	
Shale		9'-0"	170'-0"	393.6	
					" 9 th "
Sandstone		55'-0"			
Coal		1'-0"	225'-0"	338.6	
Shale		1'-0"	226'-0"	337.6	
Sandstone		5'-0"	227'-0" 232'-0"	336.6 331.6	" 10 th "
Sandy Shale		16'-0"			
Dark Shale (Coal markings)		1'-0"	248'-0"	315.6	
Coal		1'-6"	249'-0"	314.6	
Shale		1'-6"	250'-0"	313.1	
Coal		2'-0"	252'-0"	311.6	
Shale		3'-0"	254'-0"	309.6	
Coal		1'-3"	257'-0" 258'-3"	306.6 305.4	
Shale		11'-9"	270'-0"	293.6	
					" 11 th "
Sandstone		28'-0"			
Shale		6'-0"	298'-0"	265.6	
Shale & Coal		2'-0"	304'-0" 306'-0"	259.6 257.6	
					" 12 th "
Sandstone		32'-0"			
Sandy Shale		2'-0"	338'-0" 340'-0"	225.6 223.6	" 13 th "
Sandstone		7'-0"			
			347'-0"	216.6	
Shale with Sandst. Piles		13'-0"			
			360'-0"	203.6	
Shale with Coal markings		12'-0"			
Sandstone		2'-0"	372'-0"	191.6	
Shale		2'-0"	374'-0" 376'-0"	189.6 187.6	
					" 14 th "
Sandstone		41'-0"			
			417'-0"	146.6	
Shale		10'-0"			
Coal & Shale		1'-0"	427'-0"	136.6	
Coal		4'-0"	428'-0"	135.6	" 15 th "
Shale		1'-0"	432'-0"	131.6	
Coal & Shale		3'-0"	433'-0"	130.6	
Coal		1'-0"	436'-0"	127.6	
Coal & Shale		2'-0"	437'-0"	126.6	
Coal & Shale		4'-0"	439'-0"	124.6	
Trap		4'-0"	443'-0"	120.6	" 16 th "

No. 2 SEAM

Top Bench

Moisture	1.95
Volatile Matter	35.25
Fixed Carbon	50.20
Ash	12.60
	<u>100.00</u>

Middle Bench

Moisture	1.65
Volatile Matter	36.65
Fixed Carbon	48.26
Ash	13.44
	<u>100.00</u>

ANALYSIS

Moisture	1.90
Volatile Matter	32.60
Fixed Carbon	43.70
Ash	22.80
	<u>100.00</u>

CANADIAN COLLIERIES (DUNSMUIR) LTD.
 BORE HOLE No. 176
 COMOX FIELD
 Scale: 1"=20'

CX-176

694

L6

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEVATION ABOVE H.W.M. AT UNION BAY	DATE
Surface		88'-0"			May 6 th 23
					7 th
					9 th
					10 th
					11 th
					12 th
					15 th
					16 th
					17 th
					18 th
Shale (grey)		539'-0"			19 th
					20 th
					21 st
					22 nd
					23 rd
					24 th
					25 th
					26 th
Sandstone		8'-0"	647'-0"	-247.5	
			655'-0"	-255.5	
Shale		30'-0"			28 th
Sandstone		7'-0"	685'-0"	-285.5	
Shale (grey)		6'-0"	692'-0"	-292.5	
			698'-0"	-298.5	
Sandstone		27'-0"			29 th
Shale (grey)		4'-0"	725'-0"	-325.5	
Shale (brown)		2'-0"	729'-0"	-329.5	
Coal		1'-6"	731'-0"	-331.5	
Shale			734'-0"	-334.5	
Sandstone		93'-0"			30 th
					31 st
Coal (dirty)		1'-2"	827'-0"	-427.5	
Shale (grey)		9'-0"	836'-0"	-436.5	
Coal		1'-0"	837'-0"	-437.5	
			838'-0"	-438.5	
Sandstone		66'-10"			Usage 1 st
					2 nd
Shale		1'-0"	905'-0"	-505.5	
Coal (bony)		1'-0"	906'-0"	-506.5	
Shale		3'-0"	909'-0"	-509.5	
			911'-0"	-511.5	
Sandstone		61'-0"			3 rd
					4 th
Shale		12'-0"	972'-0"	-572.5	
Sandstone		6'-0"	984'-0"	-584.5	
Coal & Shale		2'-0"	990'-0"	-590.5	
Coal		7'-3"	992'-0"	-592.5	
			993'-3"	-593.7	
Shale		19'-9"			5 th
Coal		1'-0"	1013'-0"	-613.5	
			1014'-0"	-614.5	
Shale		12'-0"	1026'-0"	-626.5	
Sandstone		42'-0"			7 th
					8 th
Shale		1'-0"	1068'-0"	-668.5	
Coal		1'-6"	1069'-0"	-669.5	
			1070'-0"	-671.0	
Shale (muddy)		10"	1081'-0"	-681.0	
Coal		8"	1082'-0"	-682.0	
Shale			1083'-0"	-683.5	
Shale		17'-0"			9 th
Sandstone		17'-0"	1100'-0"	-700.5	
Shale (brown)		4'-0"	1117'-0"	-717.5	
Coal		8"	1121'-0"	-721.5	
Shale & Shale		10'-4"	1121'-8"	-722.2	
Shale with Coal markings		3'-0"	1132'-0"	-732.5	
Coal		3'-8"	1135'-0"	-735.5	
Sandy Shale		5'-0"	1139'-0"	-739.5	
			1144'-0"	-744.5	
Sandstone		18'-0"			11 th
Shale (muddy)		9'-0"	1162'-0"	-762.5	
Sandstone		10'-0"	1171'-0"	-771.5	
Sandy Shale		2"	1181'-0"	-781.5	
Shale		11'-0"	1182'-0"	-782.5	
			1193'-0"	-793.5	
Sandstone		24'-0"			12 th
					13 th
Shale		11'-0"	1217'-0"	-817.5	
Shale (brown)		1'-0"	1228'-0"	-828.5	
Coal (bony)		1'-0"	1229'-0"	-829.5	
Shale		2'-0"	1231'-0"	-831.5	
Coal (bony)		2'-4"	1233'-0"	-833.5	
Shale			1236'-0"	-836.5	
Sandstone		37'-0"			14 th
					15 th
Shale		40'-0"	1273'-0"	-873.5	
					16 th
Shale & Coal		1'-4"	1313'-0"	-913.5	
Shale		1'-8"	1314'-0"	-914.5	
Coal (dirty)		3'-0"	1318'-0"	-918.5	
Shale		21'-0"			17 th
					18 th
Sandstone		12'-0"	1340'-0"	-940.5	
Shale (muddy)		2'-0"	1352'-0"	-952.5	
Shale		4'-0"	1354'-0"	-954.5	
Trap		12'-0"	1358'-0"	-958.5	
			1370'-0"	-970.5	

CANADIAN COLLIERIES (DUNSMUIR) LTD
BORE HOLE No. 177
COMOX FIELD

CX-177
694
 (L7)

Scale: 1" = 20'

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV. 3220 ABOVE H.W.M. AT UNION BAY	DATE
Gravel		3'-0"	3'-0"	319.0	
Clay (brown)		4'-0"	7'-0"	315.0	April 23rd '23
Coarse Gravel & Boulders		24'-6"	31'-6"	290.5	
Shale with Pebbles		35'-6"	67'-0"	255.0	
Hard brn W.C. Shale		20'-0"	87'-0"	235.0	
Bkn Sandy Shale with Pebbles		45'-0"	132'-0"	190.0	
Sandstone (hard grey)		1'-6"	133'-6"	189.5	
Bkn Sandstone & Muddy Shale with Conglomerate Pebbles		7'-6"	141'-0"	181.0	
Sandstone (grey)		2'-0"	143'-0"	177.0	
W.C. Shale & Sandstone		18'-0"	161'-0"	157.0	
Sandstone (grey) with Conglom. Pebbles & Coals		7'-0"	168'-0"	150.0	
Sandst. (grey) with Cong. Pebbles		3'-0"	171'-0"	147.0	
W.C. Shale with Cong. Pebbles		11'-0"	182'-0"	136.0	
Sandstone (grey)		2'-0"	184'-0"	134.0	
W.C. Shale & Conglom.		3'-0"	187'-0"	132.0	
W.C. Shale		3'-0"	190'-0"	129.0	
Grey Sandst. Pebbles & Shale		3'-0"	193'-0"	129.0	
Sandstone (grey)		14'-0"	207'-0"	114.0	
Shale & Sandstone		4'-0"	211'-0"	110.0	
Conglomerate (coarse)		4'-0"	215'-0"	96.0	
Shale & Sandstone		5'-0"	220'-0"	92.0	
Conglomerate (coarse)		1'-0"	221'-0"	89.0	
Shale & Sandstone		4'-0"	225'-0"	85.0	
Sandstone (grey)		7'-0"	232'-0"	78.0	
Conglomerate (coarse)		1'-0"	233'-0"	78.0	
Shale & Sandstone		2'-0"	235'-0"	76.0	
W.C. Shale		12'-0"	247'-0"	58.0	
W.C. Shale & Pebbles		3'-0"	250'-0"	55.0	
W.C. Shale & Sandstone		71'-0"	321'-0"	-16.0	
Sandy Shale & Pebbles		37'-0"	358'-0"	-53.0	
Shale with Conglomerate Pebbles & Coals		1'-0"	359'-0"	-54.0	
Shale & Sandstone		1'-0"	360'-0"	-56.0	
Sandstone with Conglomerate		1'-0"	361'-0"	-57.0	
Sandstone (grey)		3'-0"	364'-0"	-62.0	
Grey Shale with Conglomerate		10'-0"	374'-0"	-72.0	
W.C. Shale		3'-0"	377'-0"	-76.0	
Sandstone with Conglomerate		2'-0"	379'-0"	-78.0	
Sandy Shale		2'-0"	381'-0"	-80.0	
Conglomerate (broken)		29'-0"	410'-0"	-108.0	
W.C. Shale		1'-6"	411'-6"	-110.5	
Conglomerate		9'-0"	420'-0"	-119.5	
Sandy Shale		116'-0"	536'-0"	-236.0	
Shale		32'-0"	568'-0"	-268.0	
W.C. Shale		20'-0"	588'-0"	-288.0	
Sandstone (hard grey)		2'-0"	590'-0"	-290.0	
W.C. Shale (broken)		58'-0"	648'-0"	-348.0	
Sandy Shale (hard, broken)		54'-0"	702'-0"	-402.0	
W.C. Shale (broken)		7'-0"	709'-0"	-409.0	
Sandstone, brown, broken		22'-0"	731'-0"	-431.0	
Sandy Shale (broken)		25'-0"	756'-0"	-456.0	
Sandstone (grey)		33'-0"	789'-0"	-489.0	
Shale (brown)		1'-0"	790'-0"	-490.0	
W.C. Shale		1'-0"	791'-0"	-491.0	
Sandstone (grey) & W.C. Shale		13'-0"	804'-0"	-504.0	
W.C. Shale (bkn)		8'-0"	812'-0"	-512.0	
Sandstone (grey)		6'-0"	818'-0"	-518.0	
Shale & Bone		2'-0"	820'-0"	-520.0	
Sandstone (grey)		81'-0"	901'-0"	-601.0	
Coal (dirty)		1'-0"	902'-0"	-602.0	
White Clayey Shale		5'-0"	907'-0"	-607.0	
Sandy Shale		5'-0"	912'-0"	-612.0	
Coal & Bone		1'-6"	913'-6"	-613.5	
Sandstone		59'-6"	973'-0"	-673.0	
Coal (broken)		1'-0"	974'-0"	-674.0	
Shale & Bone		6'-0"	980'-0"	-680.0	
Coal		1'-0"	981'-0"	-681.0	
Sandstone		53'-0"	1034'-0"	-734.0	
White Clayey Shale		4'-0"	1038'-0"	-738.0	
Sandstone		13'-6"	1051'-6"	-751.5	
Brown Shale		2'-5"	1054'-1"	-754.2	
Dirty Coal		1'-0"	1055'-0"	-755.0	
Bone & Coal		1'-0"	1056'-0"	-756.0	
Brown Shale		8'-0"	1064'-0"	-764.0	
Sandy Shale		11'-6"	1075'-6"	-775.5	
Coal (dirty)		1'-10"	1076'-8"	-778.3	
Brown Shale		1'-2"	1078'-0"	-780.7	
Coal		5'-2"	1083'-2"	-786.0	
Sandstone		25'-0"	1108'-0"	-808.0	
Shale & Sandstone		2'-0"	1110'-0"	-810.0	
Brown Shale		1'-0"	1111'-0"	-811.0	
Coal		3'-0"	1114'-0"	-814.0	
Brown Shale		3'-0"	1117'-0"	-817.0	
Sandy Shale		4'-0"	1121'-0"	-821.0	
White Clayey Shale		2'-0"	1123'-0"	-823.0	
Sandy Shale		8'-0"	1131'-0"	-831.0	
Sandstone		36'-0"	1167'-0"	-867.0	
Coal (broken)		1'-0"	1168'-0"	-868.0	
Brown Shale		6'-5"	1174'-5"	-874.2	
Coal		2'-11"	1176'-6"	-876.5	
Brown Shale		1'-8"	1177'-4"	-877.8	
Coal		1'-0"	1178'-4"	-878.8	
Brown Shale		2'-0"	1180'-4"	-880.8	
Sandy Shale		2'-10"	1202'-2"	-882.2	
Sandstone		11'-0"	1213'-2"	-893.2	
Brown Shale		10'-0"	1223'-2"	-903.2	
Coal (dirty)		1'-0"	1224'-2"	-904.2	
Brown Shale		5'-0"	1229'-2"	-909.2	
White Clayey Shale		3'-0"	1232'-0"	-912.0	
Sandstone & Shale		18'-0"	1250'-0"	-930.0	
Sandstone		5'-0"	1255'-0"	-935.0	
White Clayey Shale		14'-0"	1269'-0"	-949.0	
Bone & Mud		1'-0"	1270'-0"	-950.0	
Coal & Shale		2'-0"	1272'-0"	-952.0	
White Clayey Shale		4'-6"	1276'-6"	-956.5	
Brown Shale		1'-0"	1278'-0"	-958.0	
Broken Shale		1'-0"	1279'-0"	-959.0	
Coal		1'-0"	1280'-0"	-960.0	
Broken Muddy Shale		3'-0"	1283'-0"	-963.0	
Sandstone		10'-0"	1293'-0"	-973.0	
Muddy White Clayey Shale		5'-0"	1298'-0"	-978.0	
Sandstone		13'-6"	1311'-6"	-991.5	
Broken Shale & Coal		1'-0"	1312'-6"	-992.5	
Brown Shale		4'-6"	1317'-0"	-1000.0	
Sandstone		31'-4"	1348'-4"	-1031.3	
Brown Shale		16'-2"	1364'-6"	-1047.5	
Coal (bony)		3'-5"	1368'-1"	-1051.0	
Broken Brown Shale		2'-0"	1370'-1"	-1053.0	
Bone & Coal		1'-0"	1371'-1"	-1054.0	
Brown Shale		1'-0"	1372'-1"	-1055.0	
Broken Brown Shale		1'-0"	1373'-1"	-1056.0	
Coal (bony)		1'-0"	1374'-1"	-1057.0	
Broken Brown Shale & Bone		4'-0"	1378'-1"	-1061.0	
Trap		3'-0"	1381'-1"	-1064.0	
			1399'-0"	-1077.0	

Flow of Gas at 436

Stuck open ground at 672
Flow of Gas

Heavy Flow of Gas at 876 forced Core barrel out of Hole

ANALYSIS
 No. 2 (PANN) SEAM
 Top Bench
 Moisture 1.10
 Volatile Matter 26.20
 Fixed Carbon 40.20
 Ash 12.20
 100.00
 Bottom Bench
 Moisture 1.20
 Volatile Matter 32.10
 Fixed Carbon 38.20
 Ash 17.28
 100.00

CANADIAN COLLIERIES (DUNSMUIR) LTD.
BORE HOLE No. 178
COMOX FIELD

Scale: -1" = 20'

CX-178

694
 (28)

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV. 600. ABOVE M.S.L. AT UNION BAY	DATE
Surface		15'-0"	15'-0"	585.0	Apr. 25 th 1923
					" 26 th "
					" 27 th "
Shale		129'-0"			" 28 th "
					" 29 th "
			144'-0"	456.0	" 30 th "
Sandstone		41'-0"			
Shale Coal & Shale		4'-0" 1'-0"	185'-0" 189'-0" 190'-0"	415.0 411.0 410.0	May 1 st "
Sandstone		90'-0"			" 2 nd "
Coal		1'-0"	280'-0" 281'-0"	322.0 319.0	
					" 3 rd "
Sandstone		53'-0"			
Shale Coal & Shale Shale Coal & Shale		2'-0" 2'-0" 1'-0" 2'-0"	334'-0" 336'-0" 338'-0" 339'-0" 341'-0"	266.0 264.0 262.0 261.0 259.0	
					" 4 th "
Sandstone		69'-0"			
Shale		3'-0"	410'-0" 413'-0"	190.0 187.0	" 5 th "
Shale & Sandstone Plys		20'-0"			
			433'-0"	167.0	" 6 th "
Sandstone (dark)		8'-0"	441'-0"	159.0	
Shale & Sandstone Plys Coal Shale		4'-0" 1'-0" 3'-0"	445'-0" 446'-0" 449'-0"	155.0 154.0 151.0	
Sandstone		47'-0"			" 7 th "
			496'-0"	104.0	
Shale		14'-0"			
Sandstone		2'-0"	510'-0" 512'-0"	90.0 88.0	
Shale		12'-6"			
Coal Shale Coal Shale Coal Shale		2'-0" 2'-6" 7'-0" 1'-6" 1'-6" 7'-0"	524'-6" 526'-6" 529'-0" 530'-0" 530'-6" 532'-0"	75.5 73.5 71.0 70.0 69.5 68.0	" 8 th "
			539'-0"	61.0	
Sandstone		27'-0"			" 9 th "
Coal Shale		1'-6" 3'-6"	566'-0" 567'-6" 571'-0"	34.0 32.5 29.0	
Sandstone		19'-0"			
			590'-0"	10.0	" 10 th "
Shale Sandstone Shale Coal Shale		5'-0" 3'-0" 3'-0" 3'-0" 1'-0"	595'-0" 598'-0" 601'-0" 604'-0" 605'-0"	5.0 2.0 -1.0 -4.0 -5.0	
					" 11 th "
Sandstone		18'-0"			
			623'-0"	-23.0	
Trap		6'-0"	629'-0"	-29.0	" 12 th "

No. 2 SEAM

Top Bench

Moisture	1.80
Volatile Matter	36.30
Fixed Carbon	49.94
Ash	11.36
	<u>100.00</u>

Middle Bench

Moisture	1.40
Volatile Matter	37.20
Fixed Carbon	48.38
Ash	13.02
	<u>100.00</u>

Bottom Bench

Moisture	1.70
Volatile Matter	37.40
Fixed Carbon	48.99
Ash	10.38
	<u>100.00</u>

No. 3 SEAM

Moisture	2.00
Volatile Matter	33.90
Fixed Carbon	48.06
Ash	16.04
	<u>100.00</u>

CANADIAN COLLIERIES (DUNSMUIR) LTD
BORE HOLE No. 179
COMOX FIELD

CX-179

694

(L4)

Scale: - 1" = 20'

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV. 440.0 ABOVE H.W.M. AT UNION BAY	DATE
Gravel		20' 0"	20' 0"	420.0	
Clay with large boulders		46' 0"	66' 0"	374.0	May 23 rd 1923 June 4 th
					5'
					6'
					7'
Shale		210' 0"			8'
					9'
					10'
Sandy Shale		8' 0"	276' 0" 284' 0"	164.0 156.0	
Clayey Shale		29' 0"			11'
			313' 0"	127.0	
Shale with bands of Sandst.		34' 0"			
Sandstone		3' 0"	347' 0" 350' 0"	93.0 90.0	12'
					13'
Shale		110' 0"			14'
					15'
Sandstone		6' 0"	460' 0" 466' 0"	-20.0 -26.0	
Shale		9' 0"	475' 0"	-35.0	
Sandstone		12' 0"	487' 0"	-47.0	
Shale		4' 0"	491' 0"	-51.0	16'
Sandstone		24' 6"			
Coal Shale		1' 6" 1' 0"	515' 6" 517' 0" 518' 0"	-75.5 -77.0 -78.0	17'
Sandstone		88' 0"			18'
Shale		9' 0"	606' 0"	-166.0	
Coal & Shale		1' 0"	615' 0" 616' 0"	-175.0 -176.0	
					19'
Sandstone		43' 0"			
Shale		2' 0" 2' 6" 4' 6"	659' 0" 661' 0" 663' 6" 668' 0"	-219.0 -221.0 -223.5 -228.0	20'
Shale & Coal Shale					
Shale		75' 0"			21'
Shale		6' 0"	743' 0" 749' 0"	-303.0 -309.0	
Sandstone with Shale Plys		28' 0"			22'
Shale & Coal Shale		2' 0" 2' 0"	777' 0" 779' 0" 781' 0"	-337.0 -339.0 -341.0	23'
Sandstone		71' 0"			24'
Shale (brown)		5' 0"	852' 0"	-412.0	
Sandstone		1' 0"	857' 0" 858' 0"	-417.0 -418.0	
Sandy Shale		7' 0"			
Shale & Coal Shale		1' 0" 3' 0"	865' 0" 866' 0" 869' 0"	-425.0 -426.0 -429.0	27'
Shale (clayey)					
Shale with Sandstone Plys		8' 0"	877' 0"	-437.0	
Shale (grey clayey)		3' 0"	880' 0"	-440.0	
Shale with Sandstone Plys		11' 0"			28'
			891' 0"	-451.0	
Sandstone		10' 0"			
			901' 0"	-461.0	
Shale		5' 8"	906' 8"	-466.7	
Coal & Shale		2' 0" 7' 4"	908' 8" 910' 0"	-468.7 -470.0	
Shale		14' 0"			29'
Sandstone with Shale Plys			924' 0" 925' 0"	-484.0 -485.0	
Shale		1' 0"			
Coal		11' 0"			
Coal & Shale		2' 0" 3' 0"	936' 0" 938' 0" 941' 0"	-496.0 -499.0 -501.0	July 3 rd
Trop					

CANADIAN COLLIERIES (DUNSMUIR) LTD.
BORE HOLE No. 180
COMOX FIELD

CX-180

694

L10

Scale: 1" = 20'

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV. ABOVE H.W.M. AT UNION BAY	DATE
Fine Blue Clay		30'-0"			
			30'-0"	412.0	
Coarse Gravel		30'-0"			
			60'-0"	382.0	
Gravel & Boulders		20'-0"			
			80'-0"	362.0	
Clay with large Boulders		12'-0"			
			92'-0"	350.0	July 19 th 1923 July 31 st 1923 Aug 2 nd "
Shale		37'-0"			" 4 th "
					" 5 th "
Sandstone		16'-0"			" 6 th "
			129'-0"	313.0	
			145'-0"	297.0	" 7 th "
					" 8 th "
					" 9 th "
Shale		100'-0"			" 10 th "
					" 11 th "
					" 12 th "
			245'-0"	197.0	" 13 th "
Sandstone		19'-0"			
			264'-0"	178.0	" 14 th "
Clayey Shale		14'-0"			
			278'-0"	164.0	
Sandstone		9'-0"			
			287'-0"	155.0	" 15 th "
Clayey Shale		7'-0"			
			294'-0"	148.0	
Sandstone		19'-6"			
Coal		1'-6"			
			313'-6"	128.5	" 17 th "
			315'-0"	127.0	
					" 18 th "
Sandstone		93'-0"			
					" 21 st "
Clayey Shale		10'-6"			
			408'-0"	34.0	
Coal		6"			
			418'-6"	23.5	
			419'-0"	23.0	" 22 nd "
Sandstone		51'-0"			
Shale		3'-0"			
Coal & Shale		3'-0"			
			470'-0"	-28.0	
			473'-0"	-31.0	
			476'-0"	-34.0	" 23 rd "
Sandstone		57'-0"			
					" 24 th "
Shale		2'-0"			
			533'-0"	-91.0	
			535'-0"	-93.0	
Sandstone		43'-0"			
					" 25 th "
Coal		4'-0"			
Shale		1'-0"			
Coal & Shale		1'-6"			
Shale		1'-6"			
			578'-0"	-136.0	
			582'-0"	-140.0	" 26 th "
			583'-0"	-141.0	
			584'-6"	-142.5	
			586'-0"	-144.0	
Sandstone		53'-0"			
					" 27 th "
Shale		2'-0"			
Coal		7'-0"			
Shale		13'-0"			
			639'-0"	-197.0	
			641'-0"	-199.0	
			642'-0"	-200.0	" 29 th "
Coal & Shale		1'-0"			
			655'-0"	-213.0	" 30 th "
			656'-0"	-214.0	
Shale		20'-0"			
					" 31 st "
Coal & Shale		5'-0"			
Shale		4'-0"			
			676'-0"	-234.0	
			681'-0"	-239.0	Sept 1 st "
			685'-0"	-243.0	
Sandstone & Shale Plys		23'-0"			" 2 nd "
Muddy Shale & Coal		2'-0"			
			708'-0"	-266.0	" 3 rd "
			710'-0"	-268.0	
Hard Sandstone & Pebbles		14'-0"			" 4 th "
Hard blue Shale		5'-0"			" 5 th "
Sandstone & Shale Plys		5'-0"			
Shale		1'-0"			
Coal & Shale		1'-0"			
Trap		2'-0"			" 6 th "
			724'-0"	-282.0	
			729'-0"	-287.0	
			734'-0"	-292.0	
			735'-0"	-293.0	
			736'-0"	-294.0	
			738'-0"	-296.0	

ANALYSIS
No. 1 SEAM

Upper Bench	
Moisture	1.20
Volatiles Matter	37.50
Fixed Carbon	48.90
Ash	12.40
	<u>100.00</u>
Sulphur	2.35
Lower Bench	
Moisture	1.20
Volatiles Matter	37.20
Fixed Carbon	48.30
Ash	13.30
	<u>100.00</u>
Sulphur	3.92
Composite Upper & Lower Benches	
Moisture	1.20
Volatiles Matter	37.45
Fixed Carbon	48.75
Ash	12.60
	<u>100.00</u>

CAMPBELL RIVER

B.H. 21
 (CR-21)
 WELL NO.

STATE		COMPANY
COUNTY	FARM	
BLOCK	SURVEY	
SEC.		
T.	R.	TOTAL DEPTH
		CONTRACTOR
		COMMENCED
		COMPLETED
ALTITUDE	REMARKS	
PRODUCTION		

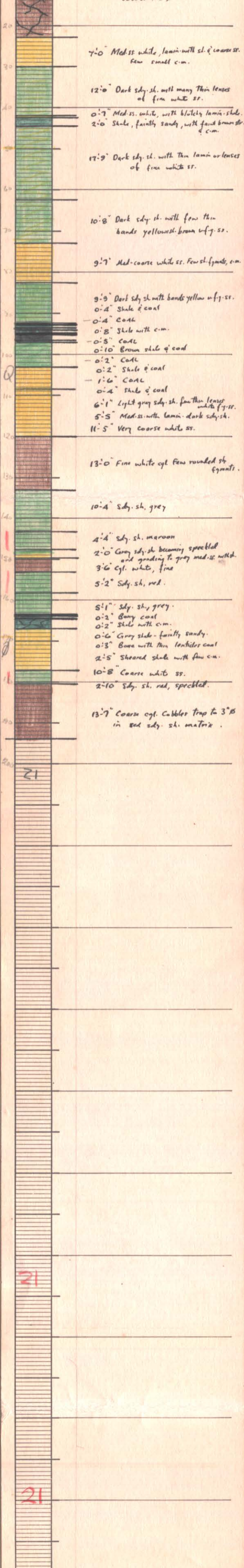
CASING RECORD

10"		
8 1/4"		
6 3/8"		
5 1/2"		
2 1/2"		
SHOT	QUARTS	BETWEEN

00694

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa

(LI)



CAMPBELL RIVER

BH. 22

CR-22

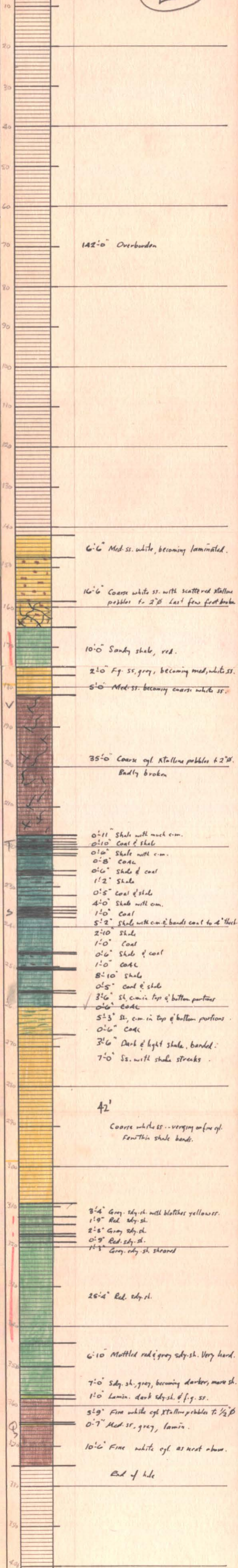
STATE		COMPANY
COUNTY	FARM	WELL NO.
BLOCK	SURVEY	
SEC.		
T.	R.	TOTAL DEPTH
ALTITUDE		CONTRACTOR
PRODUCTION		COMMENCED
		COMPLETED
		REMARKS

CASING RECORD

10"	
8 1/2"	
5 3/4"	
5 3/8"	
SHOT	BETWEEN

00694

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa

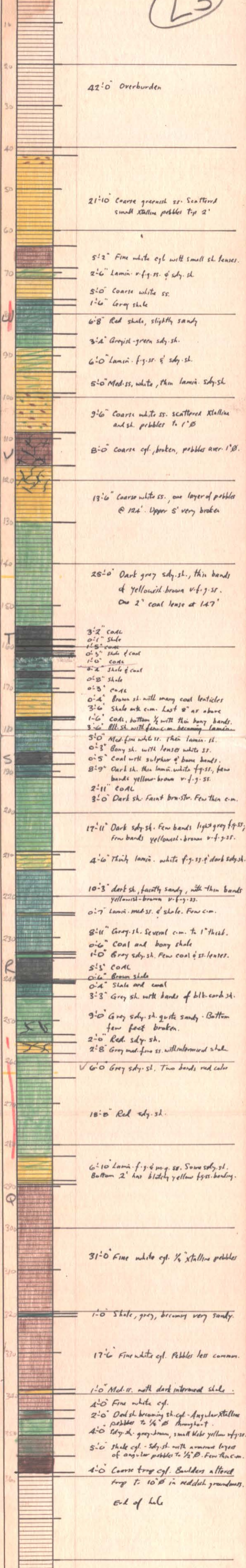


CAMPBELL RIVER

STATE	B. H. 23		
COUNTY	COMPANY	CR-23	
BLOCK	FARM	WELL NO.	
SEC.	SURVEY		
T.	R.	TOTAL DEPTH*	
CONTRACTOR			
COMMENCED			
COMPLETED			
REMARKS			
ALTITUDE			
PRODUCTION			

00694

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



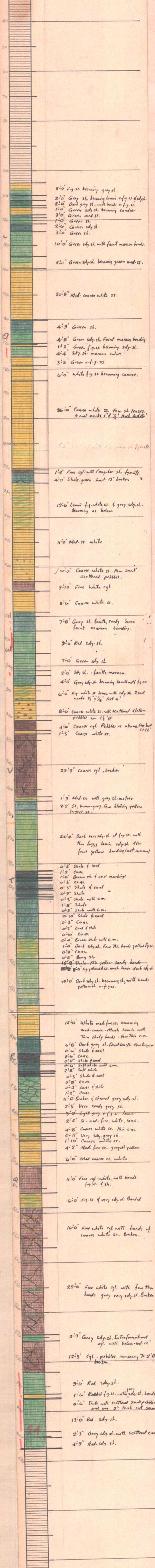
B.H. 24
CR-24

STATE		COMPANY
COUNTY	FARM	WELL NO.
BLOCK	SURVEY	
SEC.		
T.	R.	TOTAL DEPTH
CONTRACTOR		
COMMENCED		
COMPLETED		
REMARKS		
ALTITUDE		
PRODUCTION		

CASING RECORD

10" 10"
15 1/2" 5 1/2"
SHOT QUARTS BETWEEN

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



CAMPBELL RIVER

(MIDDLE QUINCY AREA) B. H. 25

STATE		COMPANY	(CR-25)
COUNTY	FARM	WELL NO.	
BLOCK	SURVEY		
SEC.			
T.	R.	TOTAL DEPTH	
CONTRACTOR			
COMMENCED			
COMPLETED			
REMARKS			
ALTITUDE			
PRODUCTION			

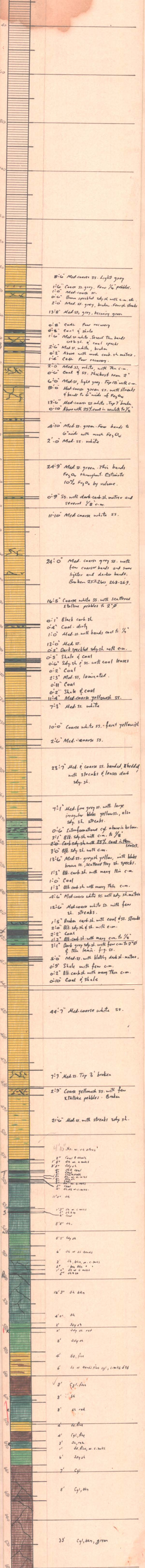
CASING RECORD

10"		
6 3/4"		
5 1/2"		
SHOT	QUARTS	BETWEEN

00694

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa

LS



8'-6" Med. coarse ss. Light gray
 1'-6" Coarse ss. gray. Few 1/4" pebbles.
 1'-0" Med. coarse ss.
 0'-6" Brown speckled sdy. sh. with c.m. etc.
 2'-0" Med. ss. gray, broken. Few sh. streaks
 13'-8" Med. ss. gray, becoming green

0'-8" Coal Poor recovery
 0'-2" Coal & shale
 1'-6" Med. ss. white. Several thin bands carb. sh. & coal specks
 2'-6" Med. ss. white, broken
 0'-2" Above with mod. carb. sh. matrix.
 1'-4" Coal Poor recovery.

2'-0" Med. ss. white, with thin c.m.
 0'-6" Coal & ss. Thickest seam 2"
 6'-0" Med. ss. light gray. Top 1/2 with c.m.
 8'-0" Med. coarse green ss. with streaks & bands to 6" wide of Fe₂O₃
 13'-6" Med. coarse ss. white. Top 7' broken
 0'-10" Above with 25% coal in veinlets to 1/2"

4'-10" Med. ss. green. Few bands to 6" wide with much Fe₂O₃
 2'-0" Med. ss. white

24'-9" Med. ss. green. Thin bands Fe₂O₃ throughout. Estimate 10% Fe₂O₃ by volume.
 0'-9" Ss. with dark carb. sh. matrix and several 1/8" c.m.
 11'-10" Med. coarse white ss.

24'-0" Med. coarse gray ss. with few coarser bands and some lighter and darker bands. Broken 257-260, 268-269.

16'-5" Coarse white ss. with scattered X-tall like pebbles to 2" Ø
 0'-1" Black carb. sh.
 0'-4" Coal - dirty
 1'-0" Med. ss. with bands coal to 1/4"
 13'-0" Med. ss.
 0'-5" Dark speckled sdy. sh. with c.m.
 0'-5" Shale & coal
 0'-6" Sdy. sh. & ss. with coal lenses
 0'-2" Coal
 2'-3" Med. ss. laminated.
 0'-11" Coal
 0'-2" Shale & coal
 11'-4" Med. coarse yellowish ss.
 7'-3" Med. ss. white

10'-0" Coarse white ss. - faint yellowish
 2'-6" Med. coarse ss.

23'-7" Med. & coarse ss. banded, & bedded with streaks & lenses dark sdy. sh.

7'-1" Med. fine grey ss. with large irregular blabs yellow ss., also sdy. sh. streaks.
 0'-6" Interformational cgl. above in below.
 3'-1" Blk. sdy. sh. with c.m. to 1/2"
 2'-0" Carb. sdy. sh. with 25% coal in thin lenses.
 3'-0" Blk. sdy. sh. with c.m.
 13'-6" Med. ss. grayish yellow, with blabs brown ss., scattered tiny sh. specks.
 1'-3" Blk. carb. sh. with many thin c.m.
 1'-0" Coal
 1'-3" Blk. carb. sh. with many thin c.m.
 4'-6" Med. coarse white ss. with sdy. sh. matrix
 12'-6" Med. coarse white ss. with few sh. streaks.
 1'-5" Broken carb. sh. with coal & ss. streaks
 2'-0" Blk. sdy. sh. & sh. with c.m.
 2'-2" Coal
 1'-2" Blk. carb. sh. with many c.m. to 1/4"
 3'-1" Dark grey sdy. sh. with few c.m. to 2" Ø & thin lamin. f-g. ss.
 5'-0" Med. ss. with blotchy dark sh. matrix.
 0'-9" Shale with few c.m.
 0'-2" Blk. carb. sh. with many thin c.m.
 0'-10" Coal & shale

44'-7" Med. coarse white ss.

7'-7" Med. ss. Top 3' broken

2'-9" Coarse yellowish ss. with few X-tall like pebbles. Broken
 2'-6" Med. ss. with streaks sdy. sh.

4'-10" Ss. w. ss. ovals
 2" Coal 9 ovals
 1'-8" Ss. w. c. mites
 3'-8" Sdy. sh.
 1" 1/2" Coal
 1" 1/2" Ss. w. c. mites
 1" 1/2" Sdy. sh.
 1" 1/2" Coal
 1" 1/2" Ss. w. c. mites
 1" 1/2" Coal
 1" 1/2" Ss. w. c. mites
 1" 1/2" Sdy. sh.

1'-3" Ss. w. c. mites
 2" Ss. w. c. mites
 6" Coal
 8'-8" Ss.

5'-0" Sdy. sh.
 6' Ss. w. ss. ovals
 2' Ss. blk., w. c. mites
 2" Ss. blk., w. c. mites
 1'-6" Ss. w. c. mites
 5" Ss. blk.

16'-3" Ss. blk.
 4'-0" Ss.
 2' Sdy. sh.
 2' Sdy. sh. red
 8' Sdy. sh.
 4' Ss. fine
 6' Ss. w. ovals fine cgl., c.mites 516

8' Cgl. fine
 3' Ss.
 8' Ss. red
 4' Ss. fine
 4' Cgl. fine
 3' Ss. red
 1' Ss. fine, w. c. mites
 6' Sdy. sh.
 7' Cgl.

8' Cgl., blk.
 33' Cgl., blk., green

CAMPBELL RIVER

B. H. 26

CR-26

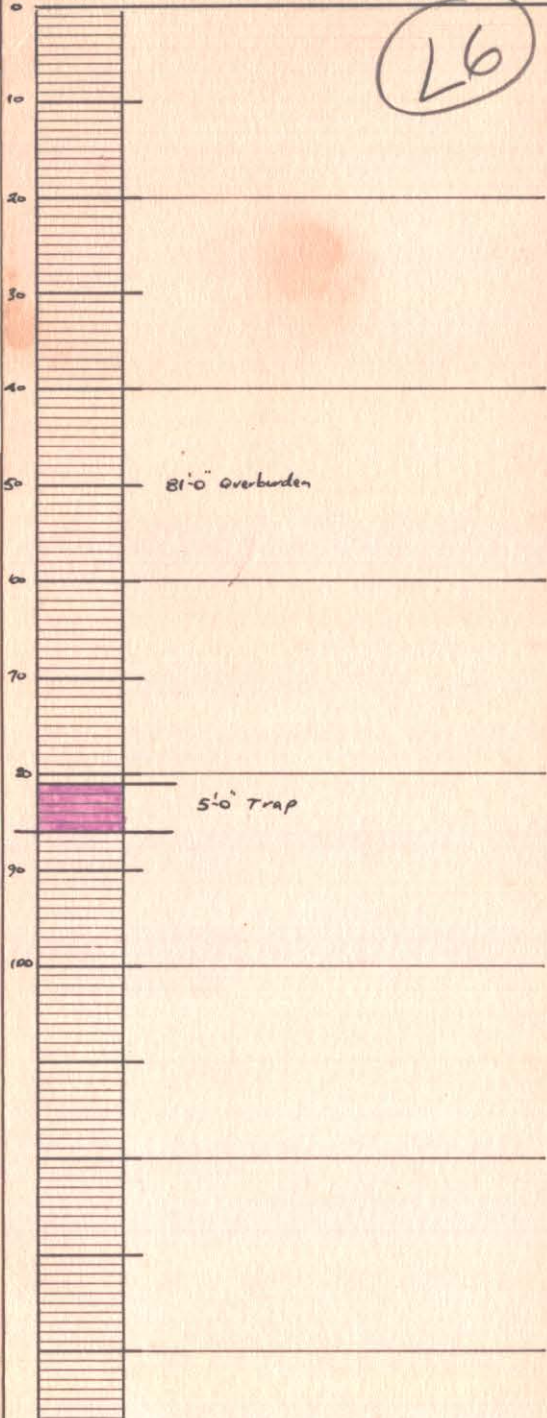
STATE		COMPANY
COUNTY	FARM	WELL NO.
BLOCK	SURVEY	
SEC.		
T.	R.	TOTAL DEPTH
		CONTRACTOR
		COMMENCED
		COMPLETED
ALTITUDE		REMARKS
PRODUCTION		

CASING RECORD

00694

10"	
8"	
6"	
5 3/8"	
15 1/2"	
SHOT	BETWEEN

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



(MIDDLE QUINCY AREA)

CR-27

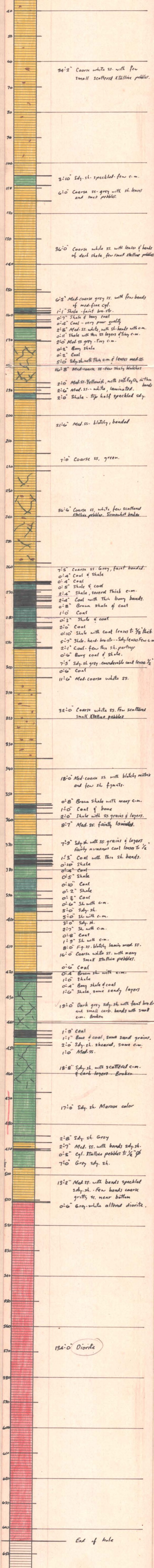
STATE		COMPANY	
COUNTY		FARM	WELL NO.
BLOCK		SURVEY <i>Elev 311 M</i>	
SEC.		<i>1020 ft.</i>	
T.	R.	TOTAL DEPTH	
		CONTRACTOR	
		COMMENCED	
		COMPLETED	
ALTITUDE		REMARKS	
PRODUCTION			

CASING RECORD

10"
8 1/2"
6 3/4"
5 1/2"
SHOT QUARTS BETWEEN

00694

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



B.H. 28
CR-28

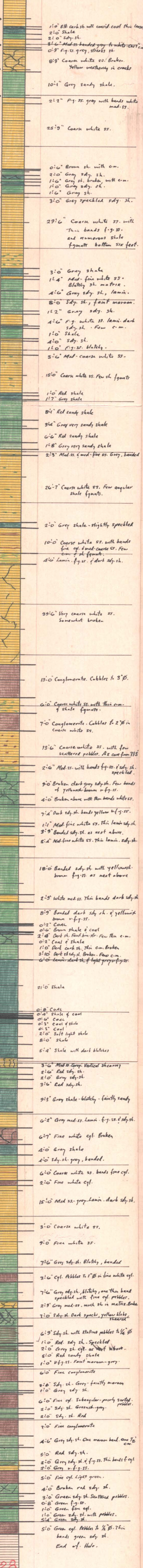
STATE		COMPANY	
COUNTY		FARM	WELL NO.
BLOCK		SURVEY	
SEC.			
T.	R.	TOTAL DEPTH	
CONTRACTOR			
COMMENCED			
COMPLETED			
REMARKS			
ALTITUDE			
PRODUCTION			

CASING RECORD

0"	10"
5 1/2"	8 1/2"
	6 3/4"
	3 3/8"

SHOT QUANTS BETWEEN

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



28

CAMPBELL RIVER
(IRON RIVER)

B. H. 29
CR-29

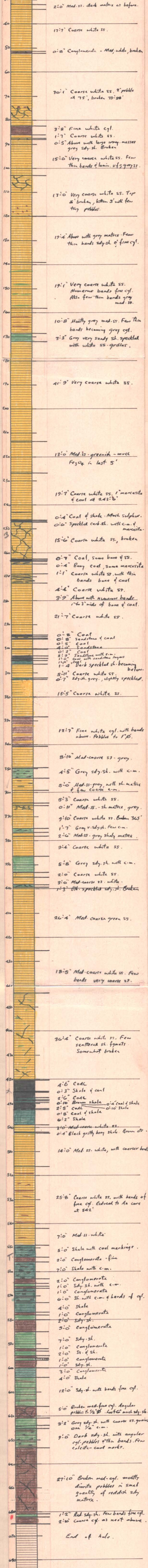
STATE		COMPANY	
COUNTY		FARM	WELL NO.
BLOCK		SURVEY	
SEC.			
T.	R.	TOTAL DEPTH	
		CONTRACTOR	
ALTITUDE		COMMENCED	
PRODUCTION		COMPLETED	
REMARKS			

CASING RECORD

10"		
8"		
6"		
5 1/2"		
1 1/2"		
SHOT	QUARTS	BETWEEN

00694

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



CR-30 B. H. 30

STATE		COMPANY	
COUNTY		FARM	WELL NO.
BLOCK		SURVEY	
SEC.			
T.	R.	TOTAL DEPTH	
		CONTRACTOR	
		COMMENCED	
		COMPLETED	
ALTITUDE		REMARKS	
PRODUCTION			

R1 450 approx

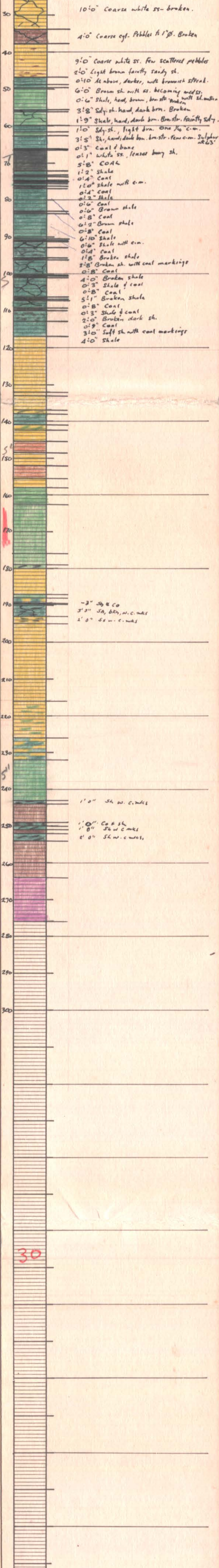
CASING RECORD

10"		
8 1/4"		
6 3/8"		
5"		
4 1/2"		
4"		
3 1/2"		
3"		
2 1/2"		
2"		
1 1/2"		
1 1/4"		
1 1/8"		
1 1/16"		
SHOT	QUARTS	BETWEEN

00694

L10

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



B. H. 31

Campbell River

STATE

COMPANY

CR-31

COUNTY

FARM

WELL NO.

BLOCK

SURVEY

SEC.

T.

R.

TOTAL DEPTH

CONTRACTOR

COMMENCED

COMPLETED

REMARKS

ALTITUDE

PRODUCTION

CASING RECORD

10"

8 1/4"

6 1/2"

00694

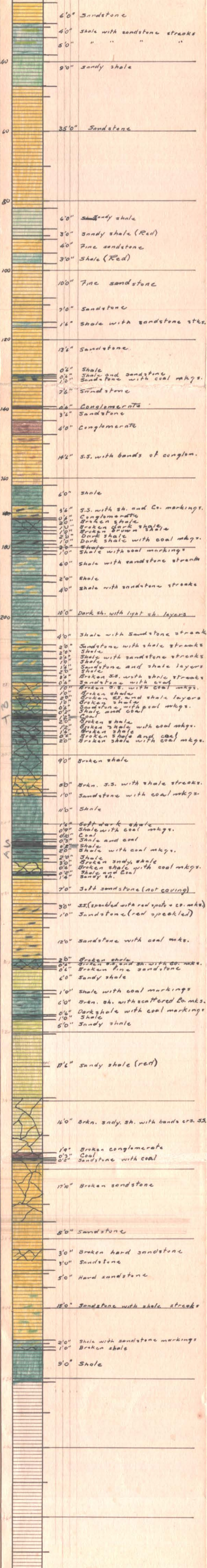
SHOT

QUARTS

BETWEEN

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa

LII



B.H. 31

CAMPBELL RIVER

STATE		COMPANY	
COUNTY		FARM	WELL NO.
BLOCK		SURVEY	
SEC.			
T.	R.	TOTAL DEPTH	
		CONTRACTOR	
		COMMENCED	
		COMPLETED	
ALTITUDE		REMARKS	
PRODUCTION			

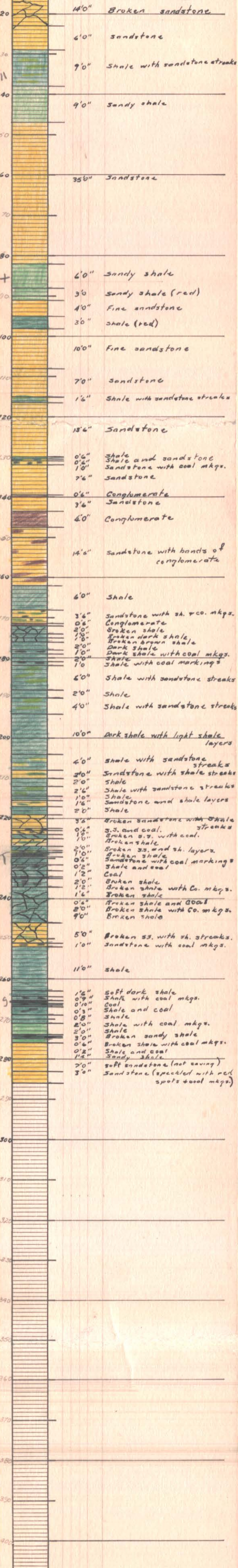
CASING RECORD

10"	10"	
8 1/2"	8 1/2"	
6 1/2"	6 1/2"	
5 1/2"	5 1/2"	
15 1/2"		
SHOT	QUARTS	BETWEEN

00694

L12

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



WELDWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

694

14

BOREHOLE NO. - Quinsam Lake #1 *QL-1*
 LOCATION - Campbell River Area
 ELEVATION - 680
 DATE - July 1975

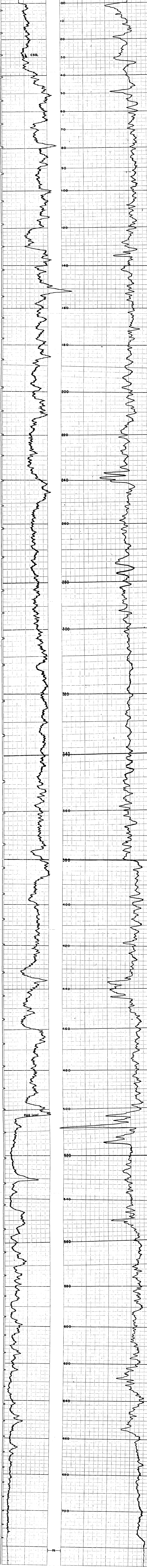
Type of Cuttings	FEET	
	FROM	TO
Gravel and Boulders	0	38
Grey Shale	38	50
Siltstone	50	88
Silty Shale	88	117
Sandstone	117	129
Siltstone	129	140
Red Shale	140	182
Sandstone	182	237
Coal and Carbonaceous Shale	237	241
Sandstone	241	338
Grey Shale with Soft Sandstone Bands	338	380
Grey Siltstone	380	411
Sandstone	411	421
Brown Shale and Siltstone (some carbonaceous shale)	421	430
Sandstone	430	436
Carbonaceous Shale	436	442
Silty Shale	442	452
Sandstone	452	508
Carbonaceous Shale - Coal Traces	508	528
Sandstone	528	536
Carbonaceous Shale	536	551
Silty Shale with Carbonaceous Layers	551	562
Grey Siltstone	562	654
Red and Grey Siltstone and Shales	654	707
Siltstone	707	709
Basalt (oxidized) - Traces of Native Copper	709	729

DRAKE OILS FORMATION DENSITY LOG

COMPANY: WELDON OF CANADA LIMITED
 WELL: OLIN SEPT 69
 FIELD: OLIN SEPT 69
 PROVINCE: ALBERTA
 LOCATION: RAITHER
 U.S. GEOLOGICAL SURVEY: 6941
 PROVINCIAL WELL NO.: 7441135
 WELL DEPTH: 650
 LOG MEASURED FROM: 0 TO 650
 LOG MEASURED BY: G. J. ...
 LOG CHECKED BY: G. J. ...
 LOG DATE: ...

PROVINCE	ALBERTA
FIELD	OLIN SEPT 69
WELL	OLIN SEPT 69
COMPANY	WELDON OF CANADA LIMITED
LOG MEASURED FROM	0 TO 650
LOG MEASURED BY	G. J. ...
LOG CHECKED BY	G. J. ...
LOG DATE	...
PROVINCIAL WELL NO.	7441135
WELL DEPTH	650
LOG MEASURED FROM	0 TO 650
LOG MEASURED BY	G. J. ...
LOG CHECKED BY	G. J. ...
LOG DATE	...
PROVINCIAL WELL NO.	7441135
WELL DEPTH	650
LOG MEASURED FROM	0 TO 650
LOG MEASURED BY	G. J. ...
LOG CHECKED BY	G. J. ...
LOG DATE	...

20' CASING IN HOLE FLUID AT SURFACE	
GAMMA RAY API UNITS Scale: <u>20</u> T.C. <u>?</u> Zero: <u>...</u> dir. to left	BULK DENSITY ρ_b - gm/cc Scale: <u>SEN 290 T.C. 1</u> Values: 1.50, 1.75, 2.0, 2.75
CALIPER hole diameter in inches Scale: 4, 5, 6, 7, 8, 9, 10, 11, 12	



WELDWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY(63) 694
15

BOREHOLE NO. - Quinsam River #1
 LOCATION - Campbell River Area
 ELEVATION - 390
 DATE - July 1975

QR-1

<u>Type of Cuttings</u>	FEET	
	FROM	TO
Gravel	5	16
Grey Sandstone	16	54
Grey Sandstone	54	67
Sandstone	67	102
Grey Siltstone	102	104
Sandstone	104	165
Grey Sandstone	165	202
Grey Shale	202	211
Grey Sandstone - faulty formation	211	276
Grey Shale	276	282
Red Shale	282	285
Sandstone	285	365
Grey Sandstone	365	423
Shaley Siltstone	423	428.2
Sandstone	428.2	478
Red Shale	478	482
Sandstone	482	495
Sandstone - dark grey with Shale stringers	495	568.9
Sandstone - carbonaceous	568.9	569.1
Grey Sandstone	569.1	658
Red Shale	658	665
Grey Sandstone - faulty formation	665	671
Red Shale	671	672
Grey Shale	672	674
Red Shale	674	680
Grey Sandstone	680	682

COMPANY: *WELD HEAD OF CANADA LIMITED*

WELL: *QUINSMAN RIVER #1*

FIELD: *QUINSMAN*

PROVINCE: *BRITISH COLUMBIA*

LOCATION: *694*

DATE: *JULY 1955*

LOG NUMBER: *694*

LOG TYPE: *LOG*

LOG SCALE: *3.50*

LOG TYPE: *LOG*

LOG TYPE: *LOG*

LOG TYPE: *LOG*

LOG TYPE: *LOG*

LOG TYPE: *LOG*

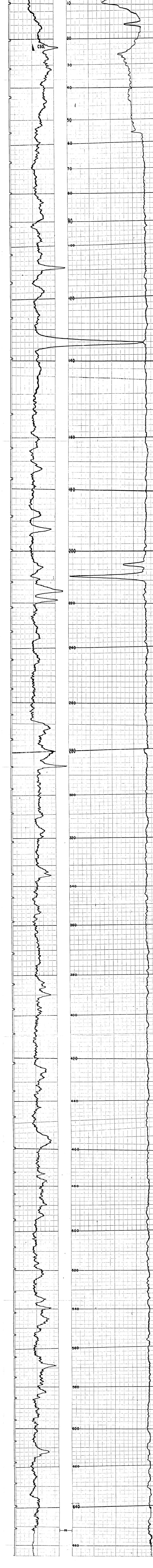
LOG TYPE: *LOG*

2 1/2" CASING IN HOLE
FLUID AT 34ft
WAS OUT AT 20.9

Gamma Ray	API Units
Scale	0.70 to 9
Zero	div. to left

Caliper	hole diameter in inches
Scale	4 to 12

Bulk Density	ρ_b - gm/cc
Scale	1.50 to 2.75
Zero	div. to left



WELDWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

694
50.
(67)

BOREHOLE NO. - Miller Creek #1
LOCATION - Quinsam Area
ELEVATION - 697
DATE - August 1975

MC-1
DEPTH - 935'

Type of Cuttings	FEET	
	FROM	TO
Sandstone	0	148
Conglomerate	148	156
Sandstone	156	170
Conglomerate	170	185
Sandstone	185	187
Conglomerate	187	204
Siltstone	204	254
Carbonaceous Shale	254	256
Siltstone	256	370
Shale	370	411
Sandstone	411	449
Coal	449	453
Carbonaceous Shale	453	460
Sandstone	460	518
Siltstone	518	531
Sandstone	531	554
Carbonaceous Shale	554	558
Sandstone	558	685
Siltstone	685	707
Sandstone	707	714
Siltstone	714	724
Carbonaceous Shale	724	732
Siltstone - traces of coal	732	768
Sandstone	768	886
Shale	886	889
Coal	889	893
Carbonaceous Shale	893	895
Coal	895	898
Carbonaceous Shale	898	905
Coal	905	908
Shale	908	920
Basalt	920	935

490

WELDWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Miller Creek #2 *MC-2*
LOCATION - Quinsam Area
ELEVATION - 980 *DEPTH- 220'*
DATE - August 1975

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Sandstone	0	38
Carbonaceous Shale	38	39
Sandstone	39	46
Shale	46	55
Sandstone	55	79
Carbonaceous Shale	79	87
Shale - some coal traces	87	121
Sandstone	121	144
Shale	144	170
Quartz	170	220

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Miller Creek #3 *MC-3*
 LOCATION - Quinsam Area
 ELEVATION - 920
 DATE - August 1975

DEPTH - 400'

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Gravel and Till	0	204
Sandstone	204	258
Carbonaceous Shale	258	263
Siltstone	263	265
Sandstone	265	280
Carbonaceous Shale	280	294
Sandstone	294	381
Basalt	381	400

ROKE

GAMMA RAY - RESISTANCE LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO. _____
 COMPANY WILDFORD OF CANADA LTD.
 WELL MILDEN-GRASS 2-1
 AGE MC-1
 LOCATION CAMPBELL RIVER
 PROVINCE BRITISH COLUMBIA
 PERMANENT DATUM GROUND LEVEL 5 Ft. Above Perm. Datum
 LOG MEASURED FROM CASING
 WELL DEPTH MEASURED FROM _____

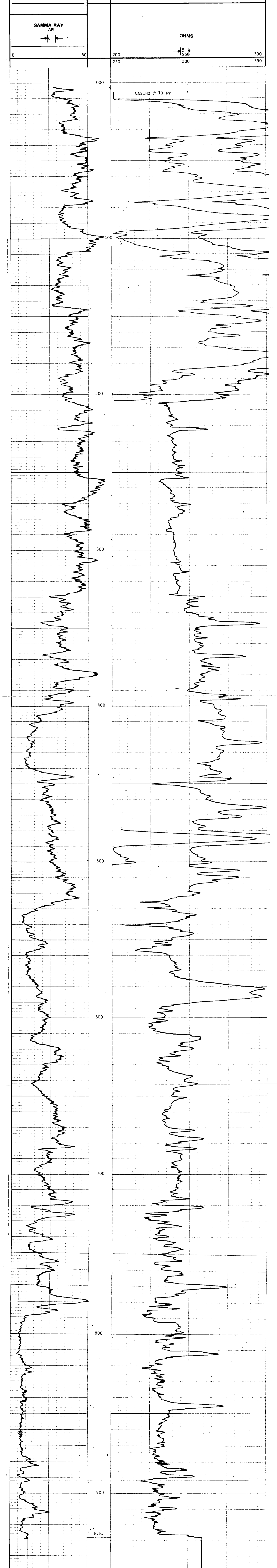
Other Services:
 DRINS-CAL
 K.B.
 C.S.G.
 G.L.

Run No. ONE
 Date 11 AUGUST 1975
 First Reading 928
 Last Reading 00
 Footage Logged 928
 Depth Reached 928
 Depth Driller 935
 Casing Roke 10
 Casing Driller _____
 Fluid Type WATER
 Liquid Level FLOWING
 Min. Diam. 4-3/4
 Rim @ 0f _____
 Operating Time 5 HOURS
 Truck No. 30

694

Remarks _____

GR-RES TOOL SERIAL NO 176



F. R. _____

Recorded By: STM Witnessed By: GREEN

ROKE

SIDEWALL DENSITLOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO. _____ COMPANY WELWOOD OF CANADA LTD.
 LSD SEC _____ WELL MILLER GREEN # 1
 TWP _____ RGE _____ LOCATION MC-1
 W _____ M _____ FIELD CANBERAL RIVER
 PROVINCE BRITISH COLUMBIA Other Services _____
 Payment Date: GROUND LEVEL Elev. 697 OR-RHS _____
 Log Measured from: CASING 5 Ft. Above Perm. Datum K.B. _____
 Well Depth Measured from _____ G.L. _____

Run No. ONE
 Date 11 AUGUST 1975
 End Reading 928
 Last Reading 00
 Footage Logged 928
 Depth Reached 931
 Depth Driller 935
 Casing Hole 10
 Casing Driller _____
 Fluid Type WATER
 Liquid Level FLOWING
 Min. Diam. 4-3/4
 Operating Time 3 HOURS
 Truck No. 30
 Recorded By STH Witnessed By GREEN

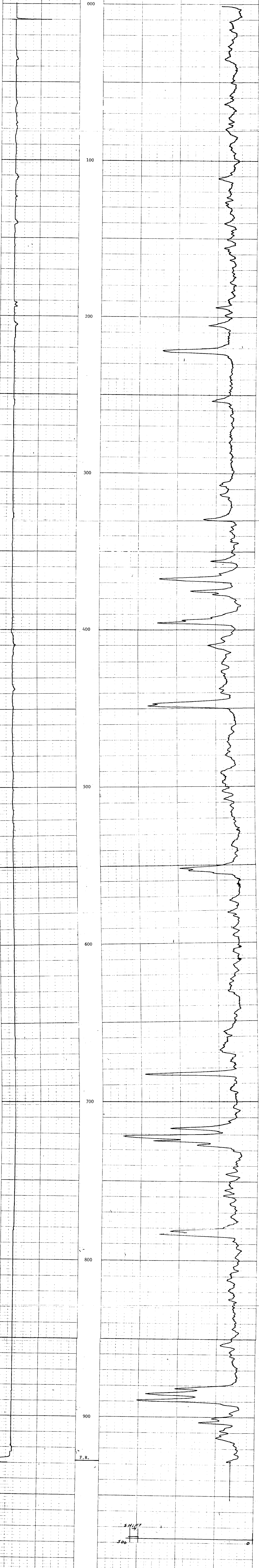
694

RUN NO.	DEPTHS		SPEED FT/MIN	T.C. SEC.	GAMMA RAY		SIDEWALL DENSITLOG				
	FROM	TO			SENS SETTINGS	ZERO DIV. L OR R	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	CPG/DIV	
1	00	928	12					3	500	1.12R	31.69

REMARKS _____

DENSITY TOOL SERIAL NO 241
 CALIPER TOOL SERIAL NO 785

DEPTHS	CALIPER (DIAMETER - INCHES)		BULK DENSITY (GRAMS/CC)	
	4	6	100	200



ROKE

GAMMA RAY

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO. _____ COMPANY WELDMOOD OF CANADA LTD.
 WELL MILLER CREEK # 2
 LOCATION L3 MC-2
 FIELD CAMPBELL RIVER (QUINSAW)
 PROVINCE BRITISH COLUMBIA
 Permanent Datum GROUND LEVEL Elev. 980
 Log Measured from GROUND LEVEL Ft. Above Perm. Datum
 Well Depths Measured from _____

694

Other Services:
 DENIS-CAL
 K.B. _____
 CSG _____
 G.L. _____

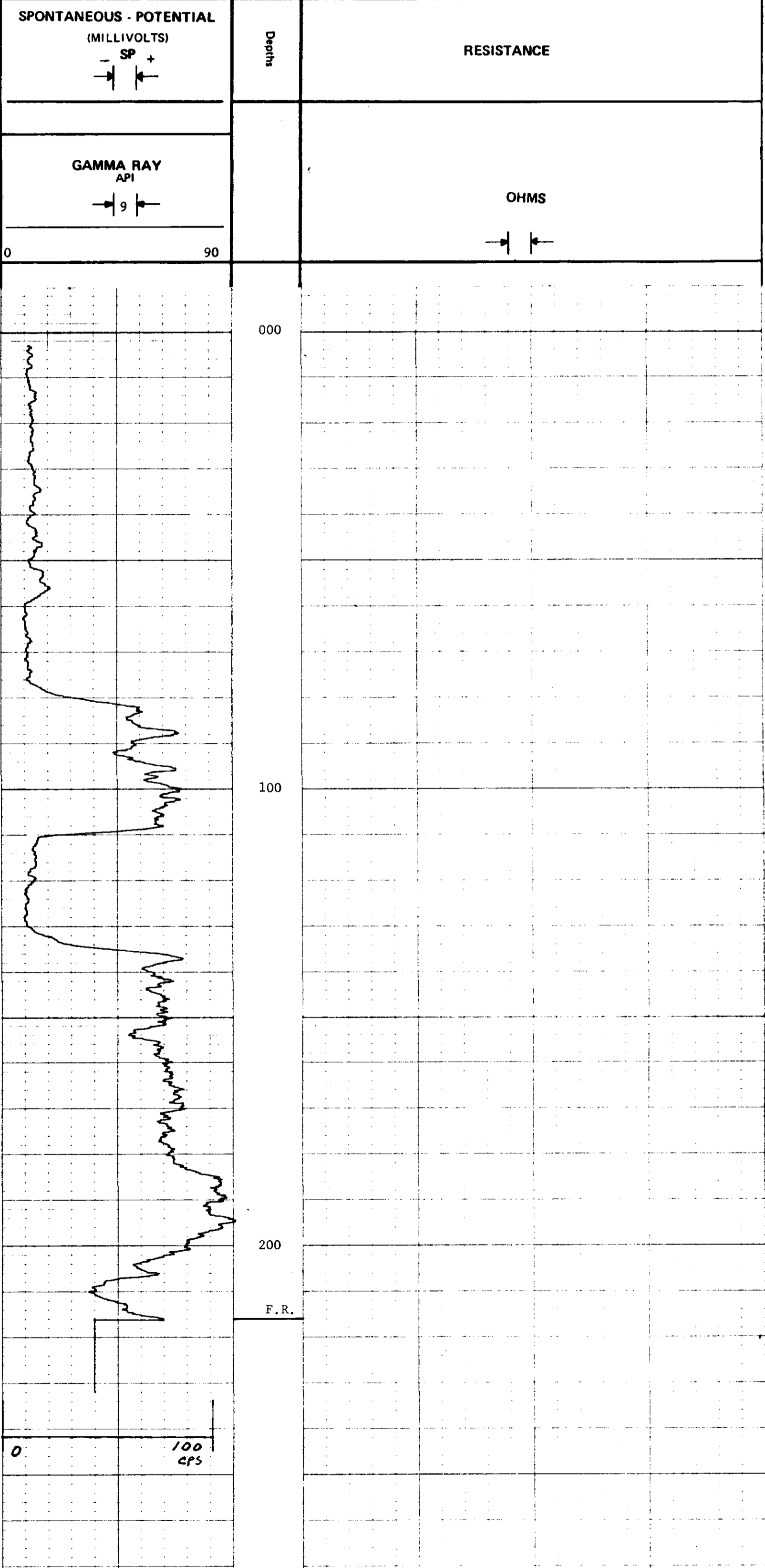
Run. No. ONE
 Date 11 AUGUST 1975
 First Reading 216
 Last Reading 00
 Footage Logged 216
 Depth Reached 217.5
 Depth Driller _____
 Casing Roke _____
 Casing Driller _____
 Fluid Type _____
 Liquid Level _____
 Min. Diam. 4-3/4
 Rm @ OF _____

Operating Time 1 HOUR
 Truck No. 30

Recorded By SIM Witnessed By GREEN

Remarks _____

GR-RES TOOL SERIAL NO 176



ROKE

SIDEWALL DENSILOG
CALIPER

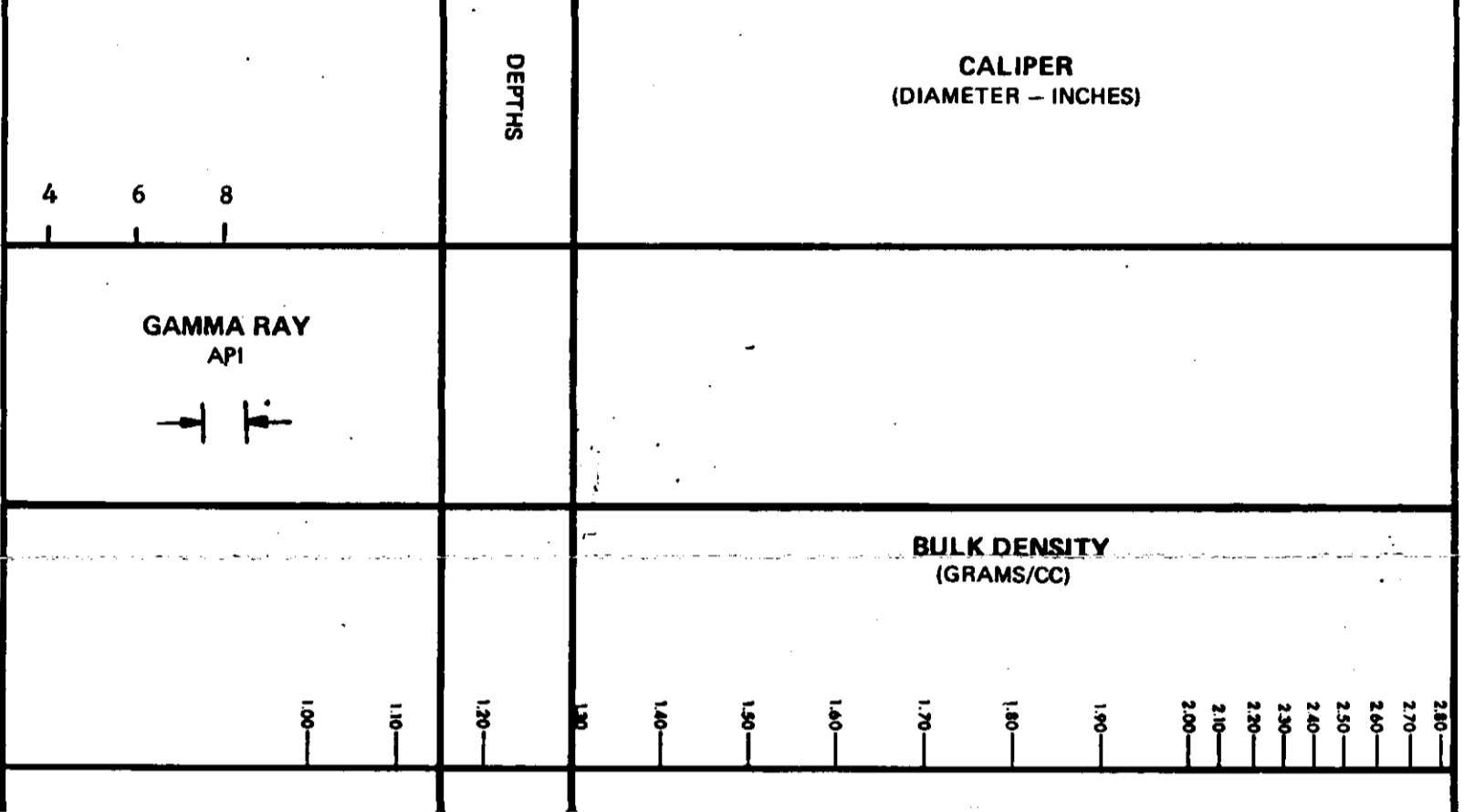
OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	WELWOOD OF CANADA LTD
LSD	WELL	MILLER CREEK # 2
SEC	LOCATION	<u>MC-2</u>
TWP	FIELD	CAMPBELL RIVER
RGE	PROVINCE	BRITISH COLUMBIA
W		
	PERMANENT DATUM	GROUND LEVEL
	Log Measured from	GROUND LEVEL
	Well Depths Measured from	
	Other Services:	GR
Run. No.	ONE	
Date	11 AUGUST 1975	
First Reading	213	
Last Reading	00	
Footage Logged	213	
Depth Reached	216	
Depth Driller		
Casing Roke		
Casing Driller		
Fluid Type		
Liquid Level		
Min. Diam.	4-3/4	
Operating Time	1-1/2 HOURS	
Truck No.	30	
Recorded By	SIM	Witnessed By GREEN

RUN NO.	GENERAL		GAMMA RAY				SIDEWALL DENSILOG			
	FROM	TO	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API G.R. UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	CPS/ DIV
1	00	213					3	500	1.12R	31.69
	00	213	CALIPER							

REMARKS

DENSITY TOOL SERIAL NO 241
CALIPER TOOL SERIAL NO 785



ROKE

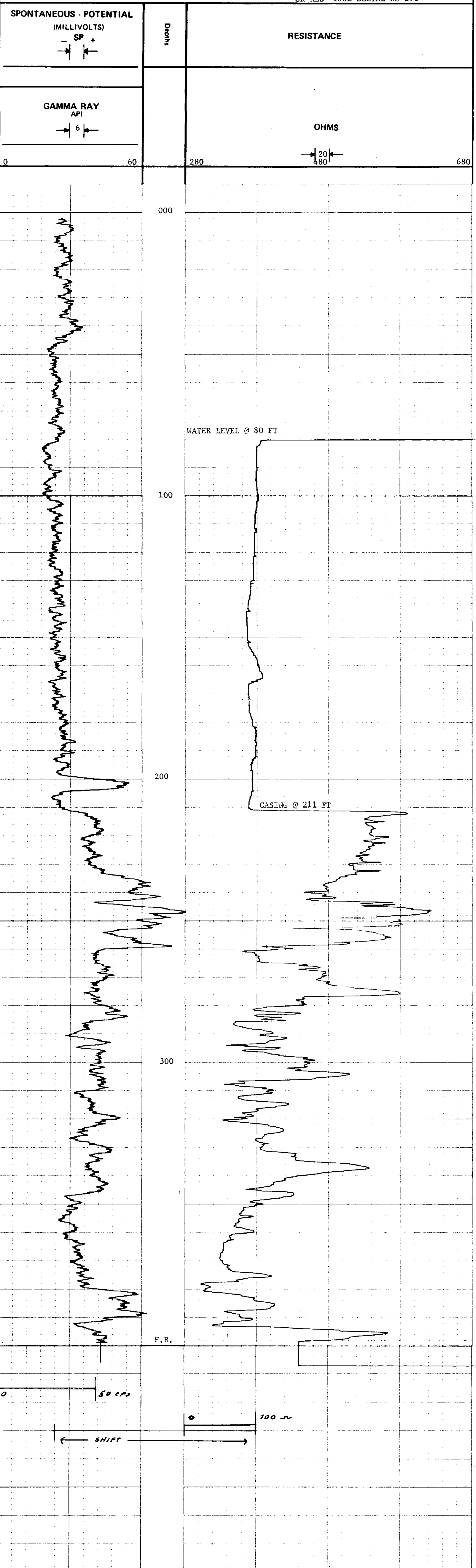
GAMMA RAY - RESISTANCE LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	WELWOOD OF CANADA LTD.
LSD	WELL	MILLER CREEK # 3
SEC	TWP	MC-3
RGE	RGE	694
W. M.	LOCATION	CAMPBELL RIVER
	FIELD	LS
	PROVINCE	BRITISH COLUMBIA
	GROUND LEVEL	857
Permanent Datum	Log Measured from	CASING
	Well Depths Measured from	.5 Ft. Above Perm. Datum
		DENS-CAL
		K.B.
		CSC
		GL
Run. No.	ONE	
Date	18 AUGUST 1975	
First Reading	400	
Last Reading	00	
Footage Logged	400	
Depth Reached	400	
Depth Driller		
Casing Roke	211	
Casing Driller		
Fluid Type	WATER	
Liquid Level	80	
Min. Diam.	4-3/4	
Rm @ 0F		
Operating Time	2 HOURS	
Truck No.	30	
Recorded By	SIM	Witnessed By GREEN

Remarks

GR-RES TOOL SERIAL NO 176



ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO. _____ COMPANY WEIMWOOD OF CANADA LTD

LSD SEC _____ WELL MILLER CREEK # 3

TWP _____ T.C. _____

RGE _____ LOCATION _____

W. _____ M. _____ FIELD CAMPBELL RIVER

PROVINCE BRITISH COLUMBIA Other Services: _____

Permanent Datum GROUND LEVEL Elev. 857 K.B. _____

Log Measured from CASING .5 Ft. Above Perm. Datum CSG _____

Well Depths Measured from _____ G.L. _____

Run No. ONE Date 18 AUGUST 1975

First Reading 396 Last Reading _____

Footage Logged 396 Footage Reached _____

Depth Driller _____ Depth Driller _____

Casing Driller _____ Casing Driller _____

Fluid Type WATER Liquid Level _____

Min. Diam. 4-3/4

Operating Time 2-1/2 HOURS

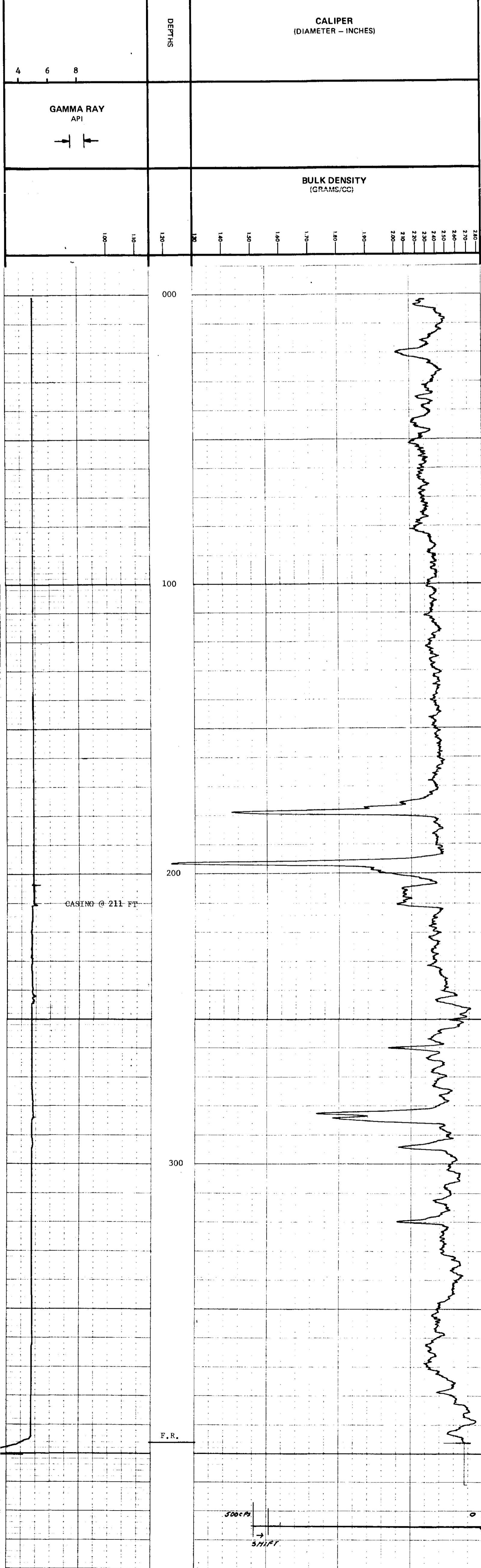
Truck No. 30

Recorded By SIM Witnessed By GREEN

RUN NO.	DEPTHS		SPEED FT/MIN	T.C. SEC.	GAMMA RAY			SIDEWALL DENSILOG			
	FROM	TO			SENS SETTINGS	ZERO DIV. L OR R	API G.R. UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	CPS/DIV
1	00	396	12					3	500	1.12R	31.69
	00	400	30		CALIPER						

REMARKS

DENSITY TOOL SERIAL NO 241
CALIPER TOOL SERIAL NO 785



694
42
(65)

WELDWOOD OF CANADA LIMITED
VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Echo Lake #1 *EL-1*
LOCATION - Quinsam Area
ELEVATION - 1080
DATE - July 1975

Depth 205'

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Gravel and Clay	0	102
Grey Siltstone	102	132
Red Shale	132	147
Sandstone	147	148
Coal	148	153
Grey Shale and Siltstone	153	183
Basalt	183	205

490
44.

WELWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

(2)

BOREHOLE NO. - Echo Lake #2 *EL-2*
LOCATION - Quinsam Area
ELEVATION - 1150 *Depth 205'*
DATE - July 1975

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Gravelly Sand with Boulders	0	10.5
Grey Hard Sandstone	10.5	44
Brown Shale with Coal Traces	44	47
Grey Shale with Coal Traces	47	64
Grey Silty Shale	64	114
Coal	114	122
Grey Silty Shale	122	142
Sandstone	142	146
Basalt	146	169
Grey - Red Shale	169	175
Basalt	175	205

WELDWOOD OF CANADA LIMITED

44.

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Echo Lake #3 *EL-3*
 LOCATION - Quinsam Area
 ELEVATION - 950 *Depth 435'*
 DATE - July 1975

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Gravel and Boulders	0	19
Sandstone	19	88.3
Shale with Coal Stringers	88.3	90
Dark Grey Sandstone	90	93.5
Shale with Coal Stringers	93.5	95.2
Sandstone	95.2	96
Carbonaceous Shale	96	97
Sandstone	97	167.5
Grey Shale	167.5	171
Green Sandstone	171	192.8
Shale with Coal Stringers	192.8	193.5
Sandstone	193.5	314
Dark Grey Shale	314	319.3
Coal and Shale	319.3	324.5
Grey Shale with Coal Traces	324.5	330
Coal with Grey Shale	330	331
Grey Shale with Coal Traces	331	335
Grey Shale	335	361
Grey Shale with Coal Traces	361	366
Coal with Grey Shale	366	368
Coal with Grey Shale Bands	368	371
Grey Shale	371	372
Coal with Shale Bands	372	375
Coal	375	377.5
Grey Shale	377.5	383
Greyish-Green & Brown Sandstone	383	390
Reddish Brown Shale	390	414
Green Sandstone (Basalt)	414	435

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Echo #4 *EL-4*
 LOCATION - Quinsam Area
 ELEVATION - 1035
 DATE - July 1975

Depth - 305'

<u>Type of Cuttings</u>	FEET	
	FROM	TO
Gravel, Boulders and Clay	0	18
Gravel & Till	18	46
Sandstone	46	165
Grey Shale	165	167
Coal	167	167.5
Grey Shale with Coal Traces	167.5	173
Grey Shale & Silt	173	179.5
Brown & Carbonaceous Shale with Coal Traces	179.5	185.5
Grey Shale	185.5	246.6
Coal	246.6	247
Grey Shale with Coal Stringers	247	254
Coal	254	264.5
Coal	264.5	265.5
Shale	265.5	268.3
Siltstone	268.3	275
Shale	275	281
Greyish-Green Siltstone	281	285
Grey & Brown Shale Soft	285	297
Green Sandstone	297	305

WELDWOOD OF CANADA LIMITED

46.

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Echo Lake #5 *EL-5*
 LOCATION - Quinsam Area *Depth . 241'*
 ELEVATION - 1040
 DATE - July 1975

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Gravel & Till	0	95
Sandstone	95	100
Grey-Green Sandstone	100	107.5
Shale	107.5	125
Siltstone	125	137
Sandstone	137	159
Shale	159	160
Coal	160	161
Coal	161	172
Grey Shale	172	176.5
Sandstone	176.5	176.7
Grey Shale	176.7	179.5
Red Shale	179.5	183
Grey Shale	183	188
Red Shale	188	194
Grey Shale	194	200
Red Shale	200	213
Basalt	213	241

47.

WELDWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Echo Lake #6 *EL-6*
LOCATION - Quinsam Area
ELEVATION - 1090
DATE - July 1975

Depth 218'

<u>Type of Cuttings</u>	FEET	
	<u>FROM</u>	<u>TO</u>
Gravel	0	20
Gravel & Boulder	137	303
Fractured & Altered Basalt (Traces of Native Copper)	202	218

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Echo Lake #7 *EL-7*
 LOCATION - Quinsam Area
 ELEVATION - 1040
 DATE - July 1975

Depth 300'

<u>Type of Cuttings</u>	FEET	
	FROM	TO
Sandstone	0	10
Light Grey Sandstone	10	83
Dark Grey Sandstone - Coarse (Hard)	83	86
Light Grey Sandstone	86	127.5
Coal	127.5	128.3
Shale	128.3	129
Coal Some Shale Partings	129	138
Shale	138	138.6
Coal	139	141.5
Grey Shale	141.5	149
Sandstone	149	209
Dark Sandstone	209	212
Grey Shale with Coal Traces	212	214
Sandstone	214	235
Sandstone	235	236
Siltstone	236	240
Shale	240	242
Coal	242	242.3
Shale	242.3	249
Carbonaceous & Brown Shale	249	264
Brown Siltstone	264	269
White Sandstone	269	277
Dark Grey Siltstone	277	282
Grey-Green Sandstone (Basalt)	282	300

WELDWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Echo Lake #8 *EL-8*
 LOCATION - Quinsam Area *Depth 310'*
 ELEVATION - 1010
 DATE - July 1975

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Gravel	0	10
Light Grey Sandstone	10	40
Sandstone (Coal Traces 73-73, 75-75.3)	40	78
Carbonaceous Shale & Brown Shale	78	78.5
Sandstone	78.5	180.5
Coal	180.5	188
Shale	188	189
Coal	189	190.5
Sandstone	190.5	192.5
Coal with Shale Partings	192.5	195
Shale	195	199
Sandstone	205	273
Brown Shale	273	275
Siltstone	275	285
Sandstone	285	310

PREPATS SONS

FORMATION DENSITY LOG

PROVINCE _____
 FIELD _____
 WELL _____
 COMPANY _____

COMPANY WELD WOOD # 244403
 WELL EL-1
 FIELD QUNSAH
 PROVINCE BRITISH
 LOCATION SOMALIA

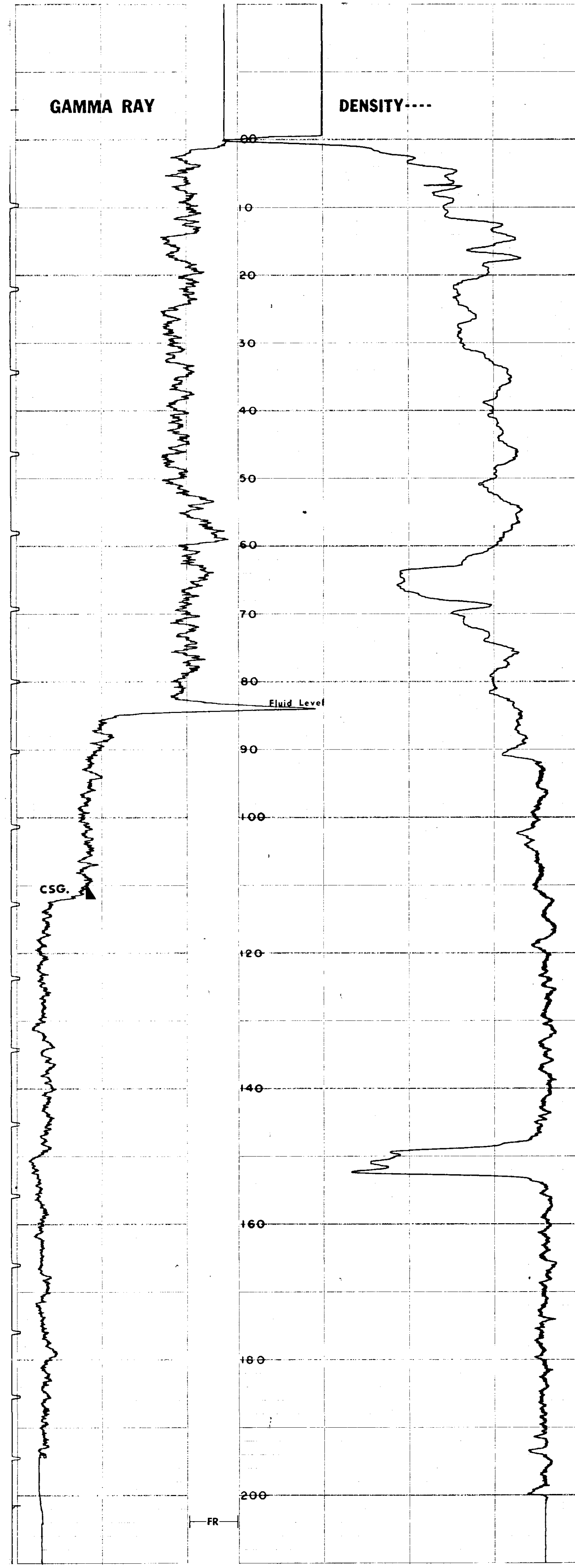
Log Measured From _____
 Permanent Datum _____
 ELEV: KB _____
 CL _____
 CR _____

Date _____
 Run No. _____
 First Reading _____
 Last Reading _____
 Feet Measured _____
 Depth Reached _____
 Bottom Driller _____

Cap. _____
 Mud Nature _____
 Dens. _____
 Mud pH _____
 Water Loss _____
 Res. _____
 Bit Size _____
 Source to Detector _____
 Spacing _____
 Equipment Type _____
 Op. Rig Time _____
 Track No. _____
 Recorded By _____
 Witness _____

112 ft casing in hole
 Fluid at 4 ft
 Washbit 148 ft to 153 ft

GAMMA RAY API UNITS	DEPTHS	BULK DENSITY ρ_b - gm/cc
Sens. <u>1.35</u> T.C. <u>3</u> Zero _____ div. to left		SEN 2.90 T.C. 1
		1.50 1.75 2.0 2.75
CALIPER hole diameter in inches		
4 5 6 7 8 9 10 11 12		



COMPANY: WELL WORKS SERVICE LIMITED
 WELL: ECHO LAKE #2
 FIELD: L-2
 PROVINCE: ALBERTA
 COUNTY: CALGARY
 LOCATION: 100 Sec. 10mp. 30p.
 Log Measured from: 0' to 0' Below Perm. Datum
 ELEV. FB: _____
 CE: _____
 Other Services: _____

Date: JULY 23 1955
 Run No.: ONE
 First Reading: ONE
 Feet Measured: 200
 Depth Measured: 200
 Station Order: 200

Casing: _____
 Annul Nature: WHITE
 Cement: _____
 Annul pH: _____
 Water Lost: _____
 Bit Size: 5"
 Source to Detector: _____
 Spacing: 12
 Equipment Type: CONRAD
 Operator: _____
 Oper. Rig Time: _____
 Track No.: 13
 Recorded By: STANLEY
 Witness: GERARD

PROVINCE _____
 FIELD _____
 WELL _____
 COMPANY _____

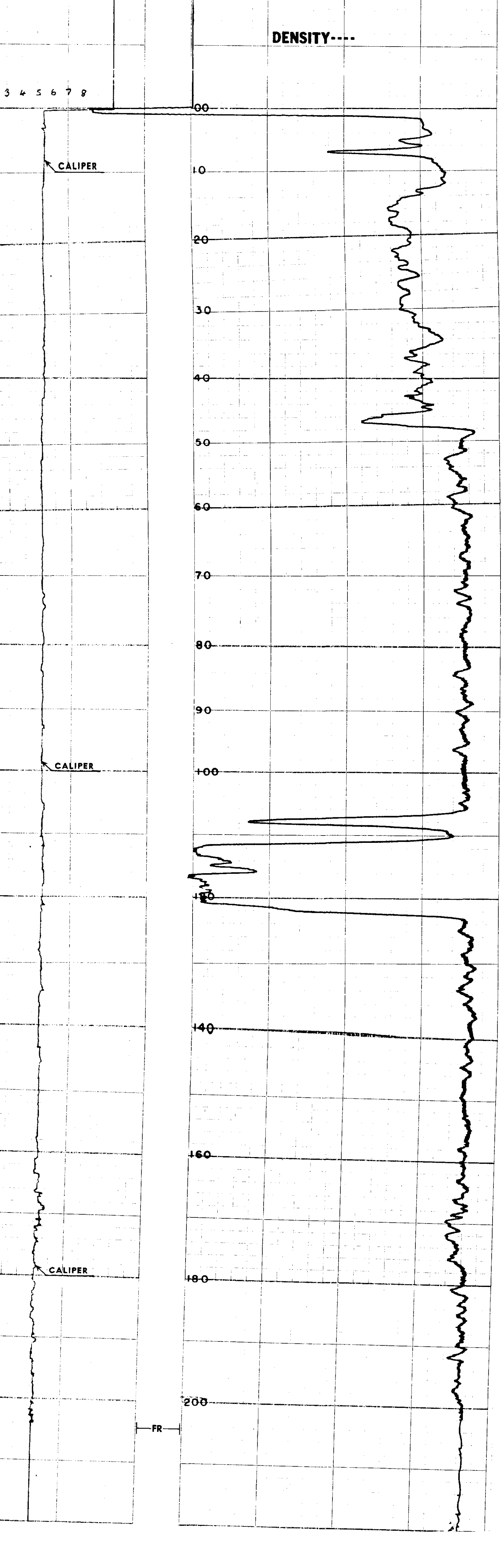
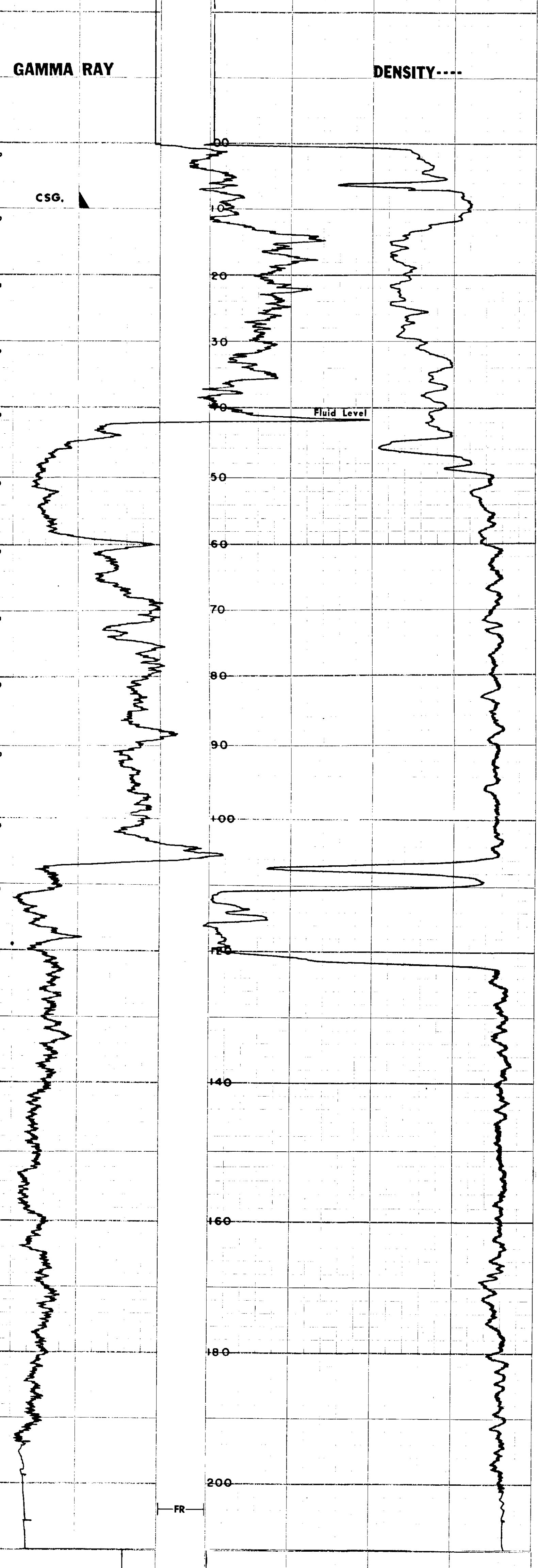
10' WELL GAMMA SCALE SAMPLES AT 100'
 FLUID AT 48'

GAMMA RAY API UNITS	DEPTHS	BULK DENSITY ρ_b - gmy/cc			
		1.50	1.75	2.0	2.75

Sens. 2.0 T.C. 3
 Zero div. to left

CALIPER hole diameter in inches

4	5	6	7	8	9	10	11	12
---	---	---	---	---	---	----	----	----



ROKE

GAMMA RAY - RESISTANCE LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO. COMPANY WEIWOOD OF CANADA LTD.

LSD SEC TWP RGE M

WELL ECHO LAKE #3
 LOCATION **EZ-3**
 FIELD **13** CAMPBELL RIVER

PROVINCE BRITISH COLUMBIA

Permanent Datum GROUND LEVEL Elev. 950
 Log Measured from CASING Ft. Above Perm. Datum
 Well Depth Measured from

Other Services: DENIG-CAL
 K.B. _____
 CSG _____
 G.L. 950

Run No. ONE
 Date 25 JULY 1975
 First Reading 405
 Last Reading 00

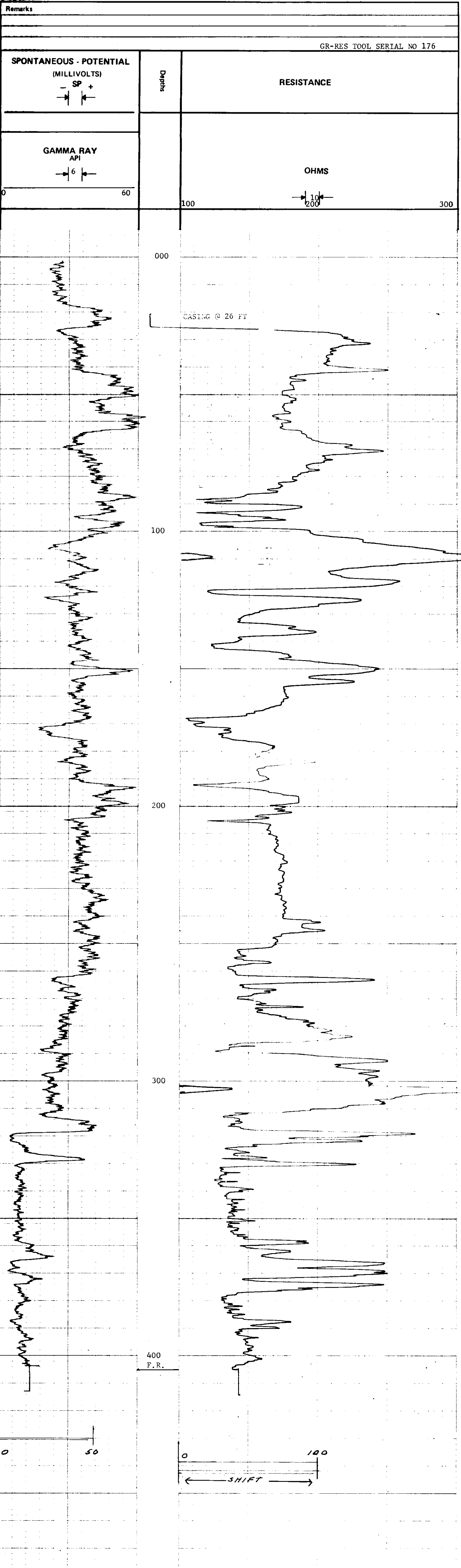
Footage Logged 405
 Depth Reached 405
 Depth Driller 435
 Casing Roke 26

Casing Driller
 Fluid Type WATER
 Liquid Level FLOWING
 Min. Diam. 4-3/4

Rm @ of
 Operating Time 1-1/2 HOURS
 Truck No. 30

Recorded By STM
 Witnessed By GREEN

GR-RES TOOL SERIAL NO 176



ROKE

SIDEWALL DENSILOG
CALIPER

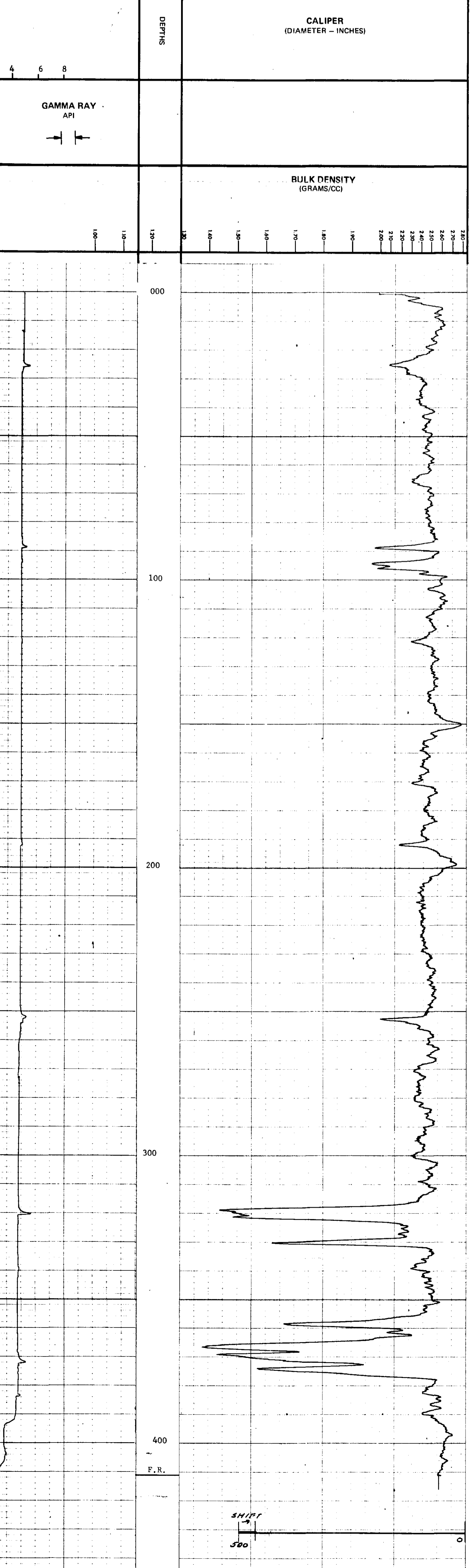
OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO. _____
 COMPANY WEILWOOD OF CANADA LTD.
 WELL ECHO LAKE # 3
 LOCATION E-3
 RGE M
 FIELD CAMPBELL RIVER (L4)
 PROVINCE BRITISH COLUMBIA
 GR-RES _____
 Other Services: _____
 Permanent Datum GROUND LEVEL Elev. 950
 Log Measured from CASING Ft. Above Perm. Datum
 Well Depths Measured from _____ K.B. _____
 C.S.G. _____ G.L. 950

Run No. ONE
 Date 25 JULY 1975
 First Reading 411
 Last Reading 00
 Footage Logged 411
 Depth Reached 414
 Depth Driller 435
 Casing Roke 26
 Casing Driller _____
 Fluid Type WATER
 Liquid Level FLOWING
 Min. Diam. 4-3/4
 Operating Time 2 HOURS
 Truck No. 30
 Recorded By SIM Witnessed By GREEN

RUN NO.	DEPTHS		SPEED FT/MIN	GAMMA RAY			SIDEWALL DENSILOG			
	FROM	TO		T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API G.R. UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R
1	00	411	12				3	500	1.12R	31.69

REMARKS
 DENSITY TOOL SERIAL NO 241
 CALIPER TOOL SERIAL NO 785





PROVINCE _____
 FIELD _____
 WELL _____
 COMPANY _____

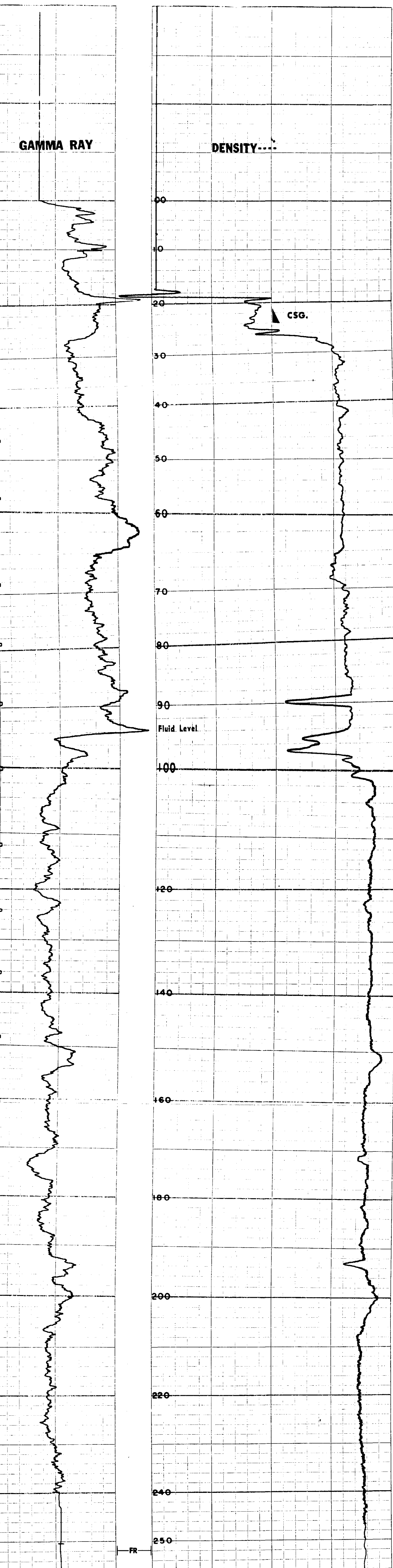
COMPANY WELL NO. EL-3
 ECHS. LAKE #3
 FIELD QUNSAM
 PROVINCE BAHIGH
 LOCATION COBARRI RIF
 LSD _____ Sec. _____ Top. _____ Rps. _____
 Other Services: _____
 Permanent Datum GL Rev. 980 ELEV. TO 125
 Log Measured From GL A. Above Perm. Datum GL 980 OF 980

Date 14/11/2005
 Run No. 01E/1125
 First Reading 0
 Last Reading 0
 Feet Measured 247
 Depth Reached 250
 Bottom Driller 258

Log _____
 Mud Nature WATER
 Dens. _____ Visc. _____
 Mud pH _____
 Water Loss _____
 Res. _____
 Bit Size 4 3/8
 Source to Detector _____
 Spacing _____
 Equipment Type CONCRETE
 Op. Rig Time 13
 Truck No. _____
 Recommended By C. STABBAAT
 Witness C. GREEN

24' CHANGES IN HOLES FLUID AT 94'

GAMMA RAY API UNITS	DEPTHS	BULK DENSITY P _b - gm/cc			
		1.50	1.75	2.0	2.75
Sens. <u>80</u> T.C. <u>3</u> Zero _____ div. to left		SEN 240 FC.1			
CALIPER hole diameter in inches					
4 5 6 7 8 9 10 11 12					



Speed in FPM

FR

ROKE

SIDEWALL DENSILOG CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

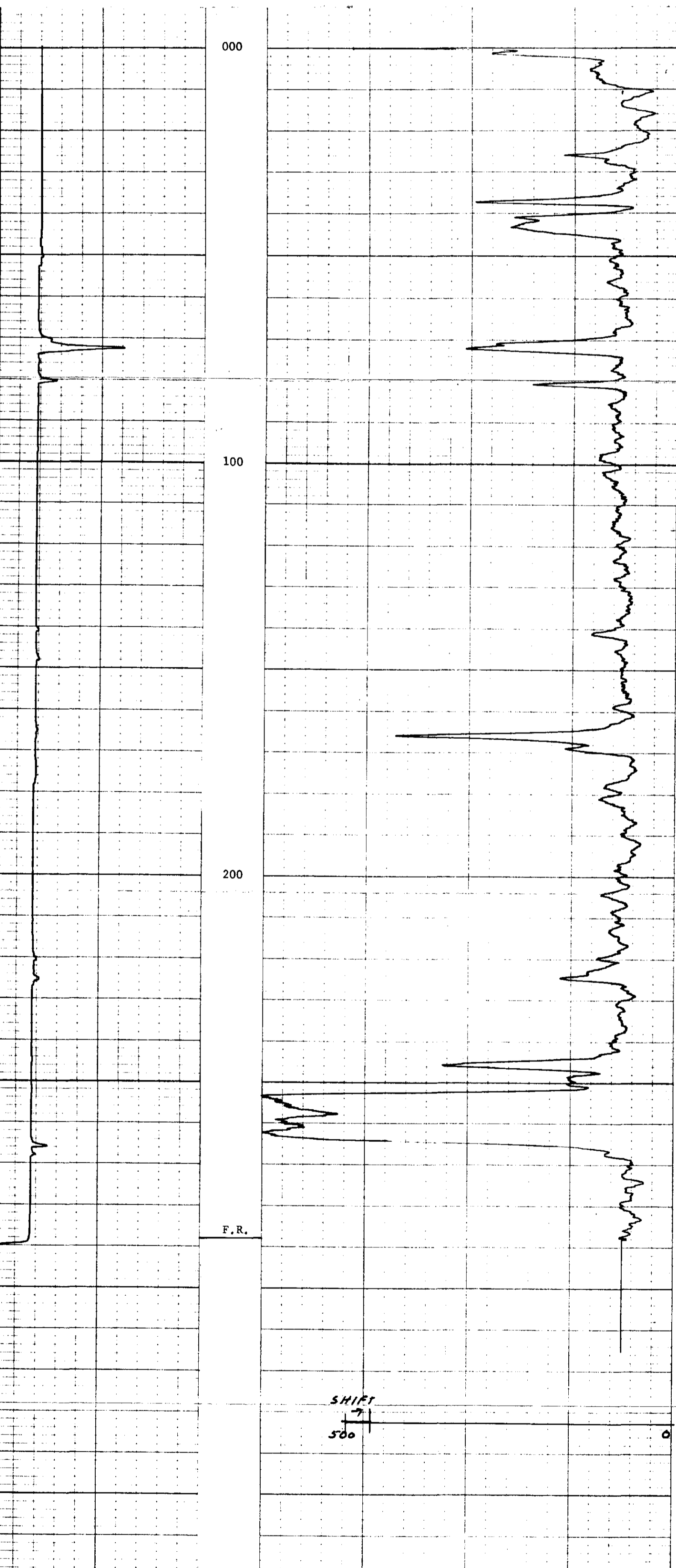
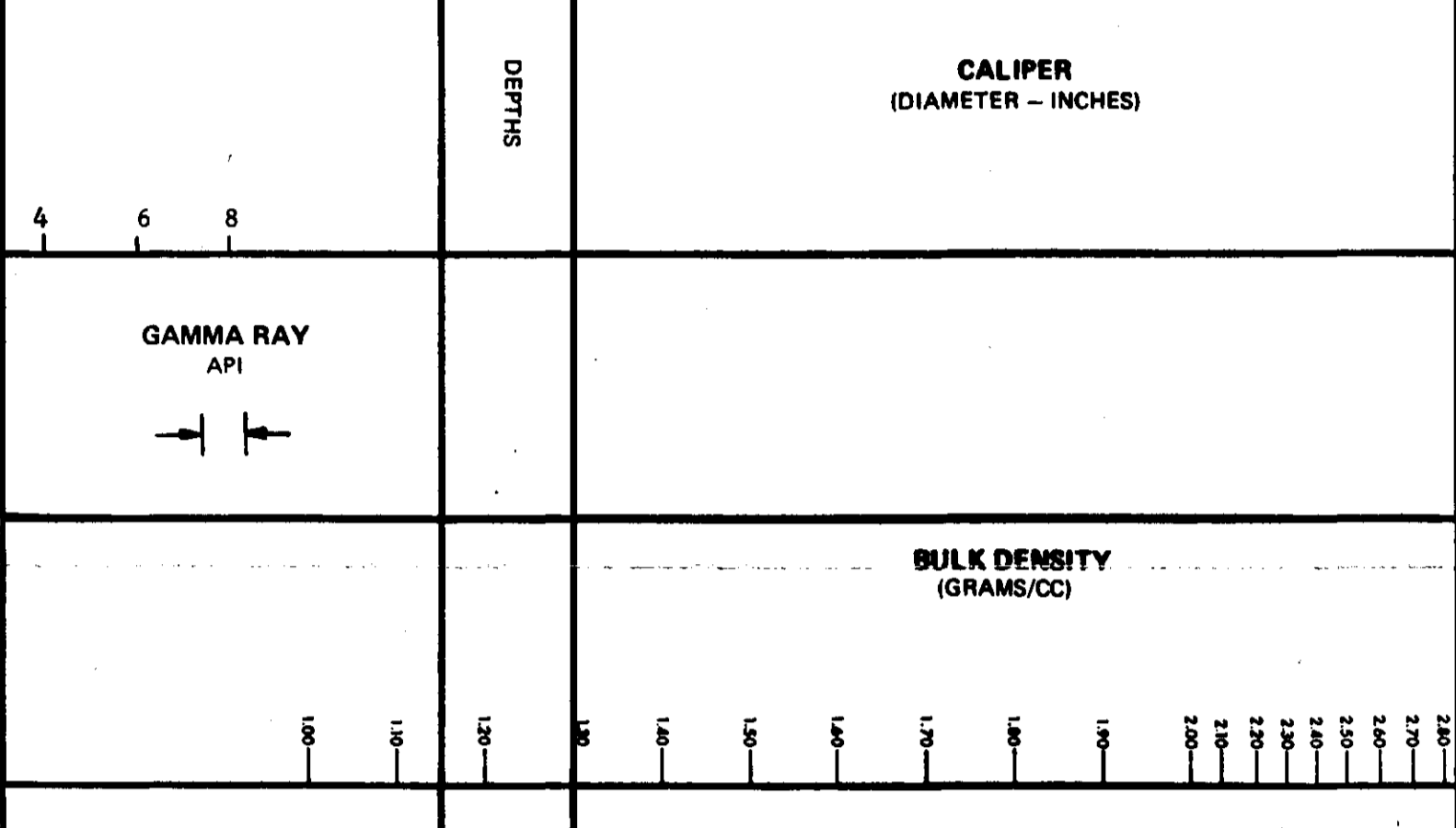
FILE NO. _____
 COMPANY WELLMOOD OF CANADA LTD.
 WELL ECHO LAKE # 4
 LOCATION EL-4
 FIELD CAMPBELL RIVER (CARINSSAM)
 PROVINCE BRITISH COLUMBIA
 PERMANENT DATUM GROUND LEVEL ELEV. 1035
 LOG MEASURED FROM CASTING FT. ABOVE PERM. DATUM
 WELL DEPTHS MEASURED FROM _____

GR-RES _____
 K.B. _____
 CSG _____
 G.L. 1035

Run. No. ONE
 Date 25 JULY 1975
 First Reading 288
 Last Reading 000
 Footage Logged 288
 Depth Reached 291
 Depth Driller 305
 Casing Rocks 46
 Casing Driller _____
 Fluid Type WATER
 Liquid Level 10
 Min. Diam. 4-3/4
 Operating Time 1-1/2 HOURS
 Truck No. 30
 Recorded By SJM Witnessed By GREEN

RUN NO.	GENERAL		GAMMA RAY				SIDEWALL DENSILOG			
	DEPTHS	SPEED	T.C.	SENS	ZERO	API G.R. UNITS	T.C.	SENS	ZERO	CPS/DIV
	FROM	TO	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.	SEC.	SETTINGS	DIV. L OR R	
1	00	288	12				3	500	1.12R	31.69

REMARKS
 DENSITY TOOL SERIAL NO 241
 CALIPER TOOL SERIAL NO 785

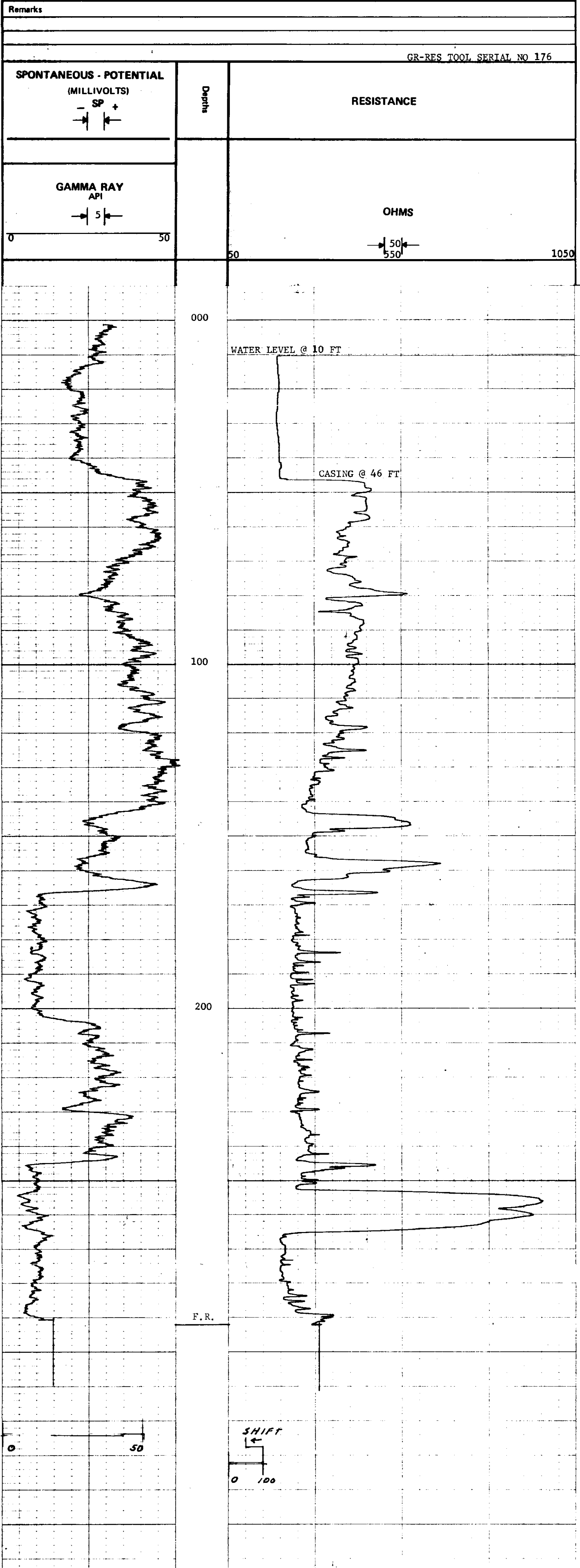


ROKE

GAMMA RAY - RESISTANCE LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	WELLMOOD OF CANADA LTD
LSD	WELL	ECHO LAKE # 4
SEC	TWP	E-4
RGE	RGE	M
W	LOCATION	E-4 (E-7) 694
	FIELD	CAMPBELL RIVER
	PROVINCE	BRITISH COLUMBIA
	Permanent Datum	GROUND LEVEL
	Log Measured from	CASING
	Well Depths Measured from	
	Elev.	1035
	Ft. Above Perm. Datum	
	Other Services:	
	DENS-CAL	
	K.B.	
	CSG	
	G.L.	1035
Run No.	ONE	
Date	25 JULY 1975	
First Reading	292	
Last Reading	00	
Footage Logged	292	
Depth Reached	292	
Depth Driller	305	
Casing Roke	46	
Casing Driller		
Fluid Type	WATER	
Liquid Level	10	
Min. Diam.	4-3/4	
Rm @ 0F		
Operating Time	1-1/2 HOURS	
Truck No.	30	
Recorded By	SIM	Witnessed By
		GREEN



ROKE

GAMMA RAY - RESISTANCE LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO. COMPANY WEIWOOD OF CANADA LTD

WELL ECHO LAKE # 8

LOCATION E-8 18 694

FIELD CAMPBELL RIVER (QUINSAM)

PROVINCE BRITISH COLUMBIA

Permanent Datum GROUND LEVEL Elev. 1010

Log Measured from Ft. Above Perm. Datum

Well Depths Measured from

Run No. ONE

Date 25 JULY 1975

First Reading 308

Last Reading 00

Footage Logged 308

Depth Reached 308

Casing Driller

Fluid Type WATER

Liquid Level 52

Min. Diam. 4-3/4

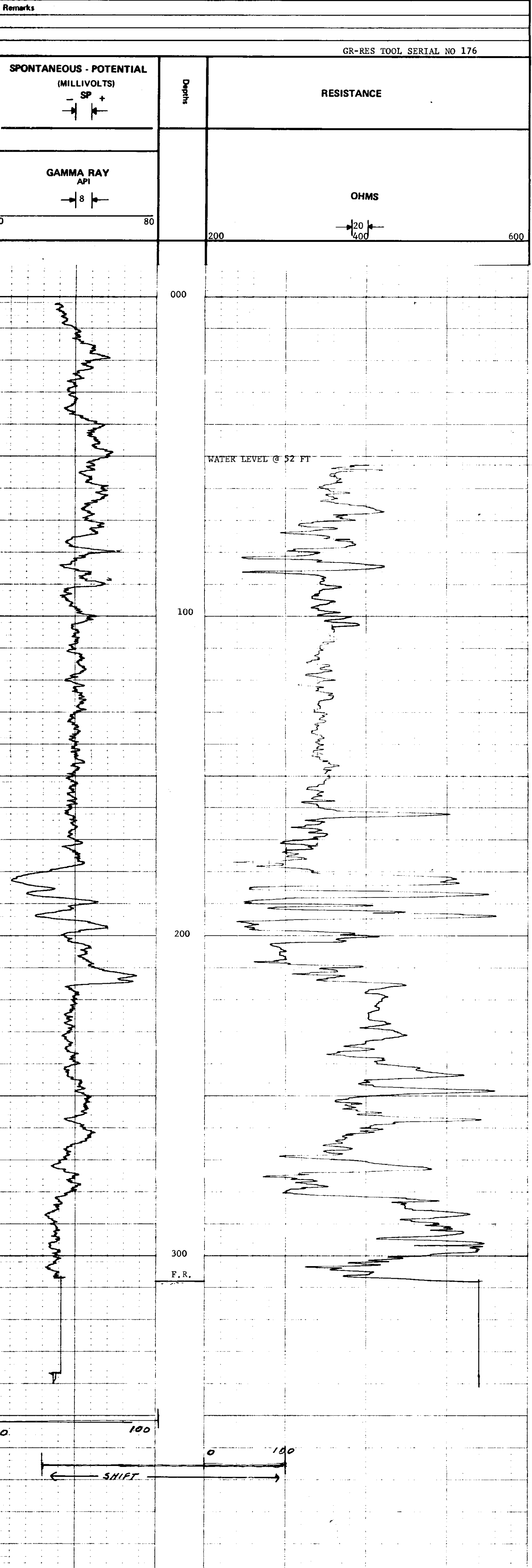
Rm @ of

Operating Time 1-1/2 HOURS

Truck No. 30

Recorded By STM Witnessed By GREEN

GR-RES TOOL SERIAL NO 176



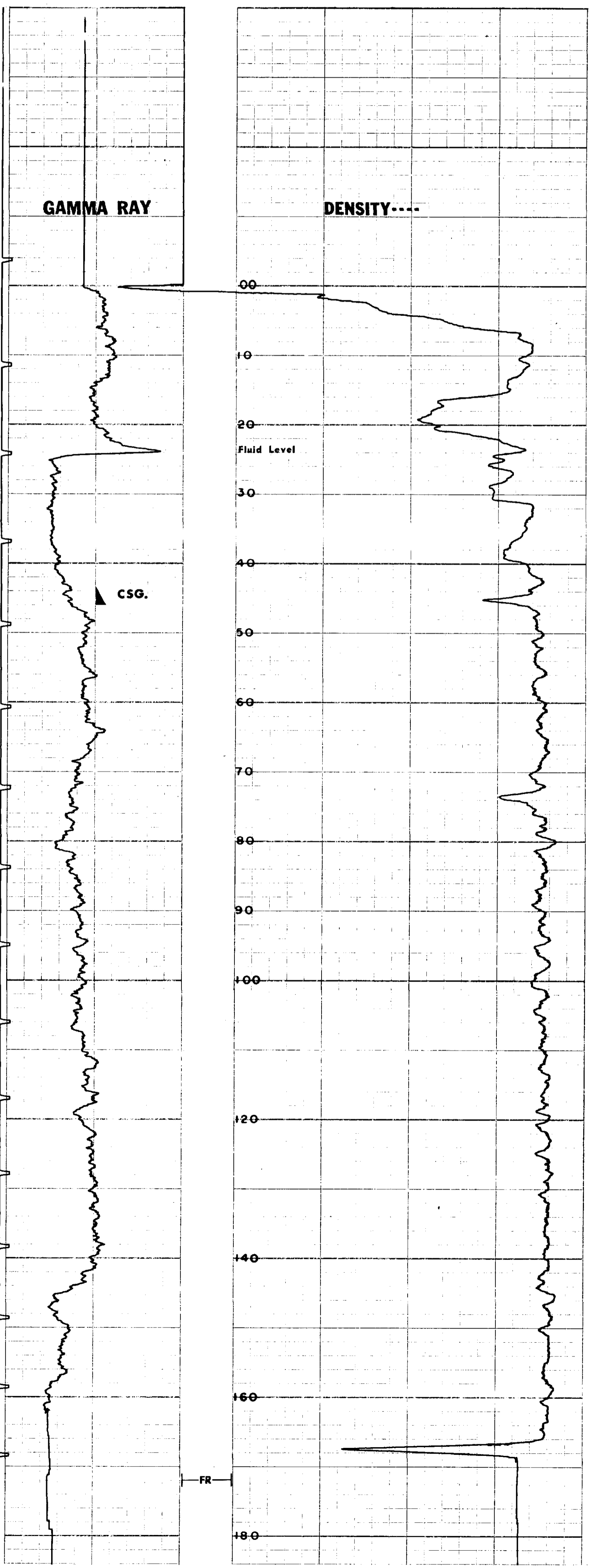
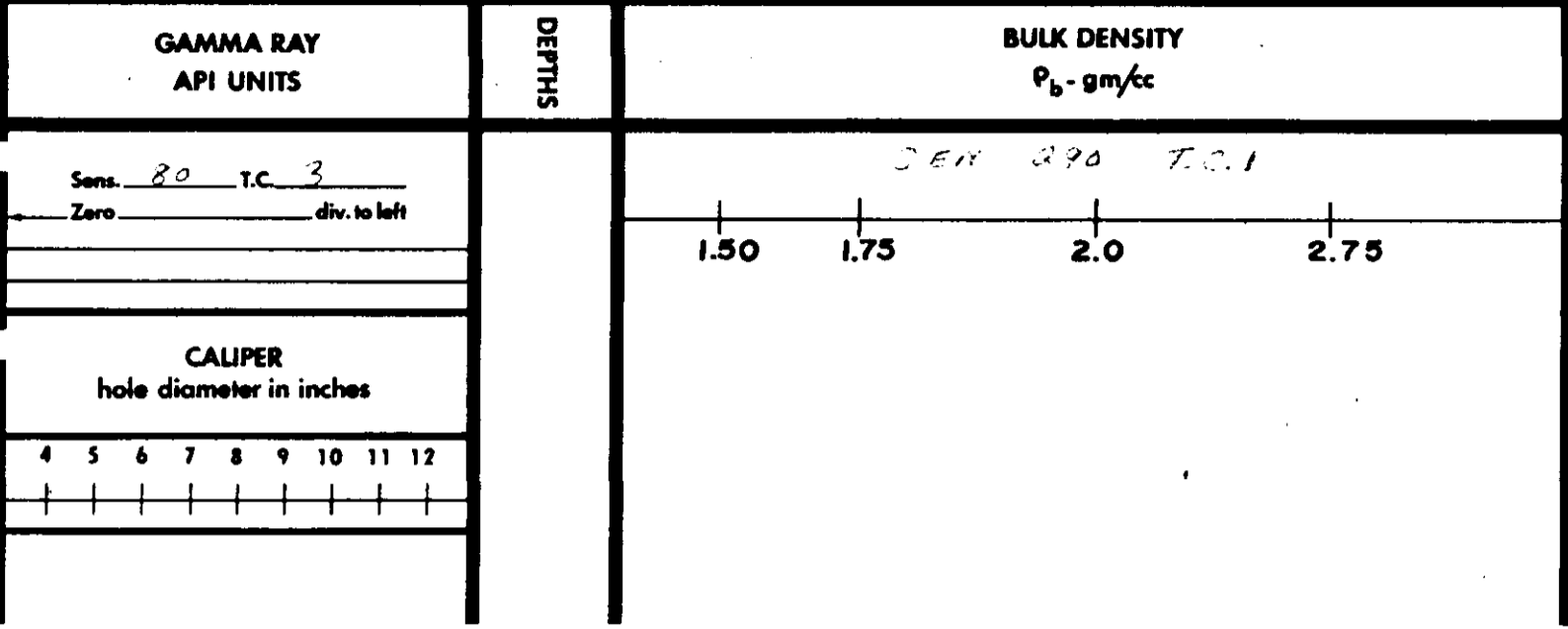
Remarks

BREATHERS FORMATION DENSITY LOG

COMPANY WELLBOND OF CANADA LIMITED
WELL ECHO LAKE #11
FIELD QUINSAKI
PROVINCE ALBERTA
LOCATION CROWTHER
DATE JULY 9/88
PERMANENT DATUM ... **ELEV.** ...
LOG MEASURED FROM ... **FT. ABOVE PERM. DATUM** ...
ELEV. KB ...
GL ...
CR ...

PROVINCE ...
FIELD ...
WELL ...
COMPANY ...
DATE ...
RUN NO. ...
FIRST READING ...
LAST READING ...
FEET MEASURED ...
DEPTH REACHED ...
BOTTOM DRIFTER ...
LOG ...
TEMP. ...
REG. ...
OTHER SERVICES: ...
MUD NATURE WATER
DENS. ...
VISC. ...
MUD PH ...
WATER LOSS ...
RES. ...
BIT SIZE ...
SOURCE TO DETECTOR ...
SPACING ...
EQUIPMENT TYPE ...
OP. RIG TIME ...
TRUCK NO. ...
RECORDED BY ...
WITNESS ...

466' CASING IN HOLE
FLUID LEVEL AT 24'



ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO. COMPANY WELDMOOD OF CANADA LTD.

LSD SEC TWP RGE W. M. WELL ECHO LAKE # 5

LOCATION **EZ-5**

FIELD CAMPBELL RIVER

PROVINCE BRITISH COLUMBIA

Permanent Datum GROUND LEVEL Elev. 1040

Log Measured from CASING Ft. Above Perm. Datum

Well Depths Measured from

694

Other Services: **L10**

GR-RES

K.B.

CSG

G.L. 1040

Run No. ONE

Date 25 JULY 1975

First Reading 237

Last Reading 00

Footage Logged 237

Depth Reached 240

Depth Driller 241

Casing Roke 96

Casing Driller

Fluid Type WATER

Liquid Level 45

Min. Diam. 4-3/4

Operating Time 1 HOUR

Truck No. 30

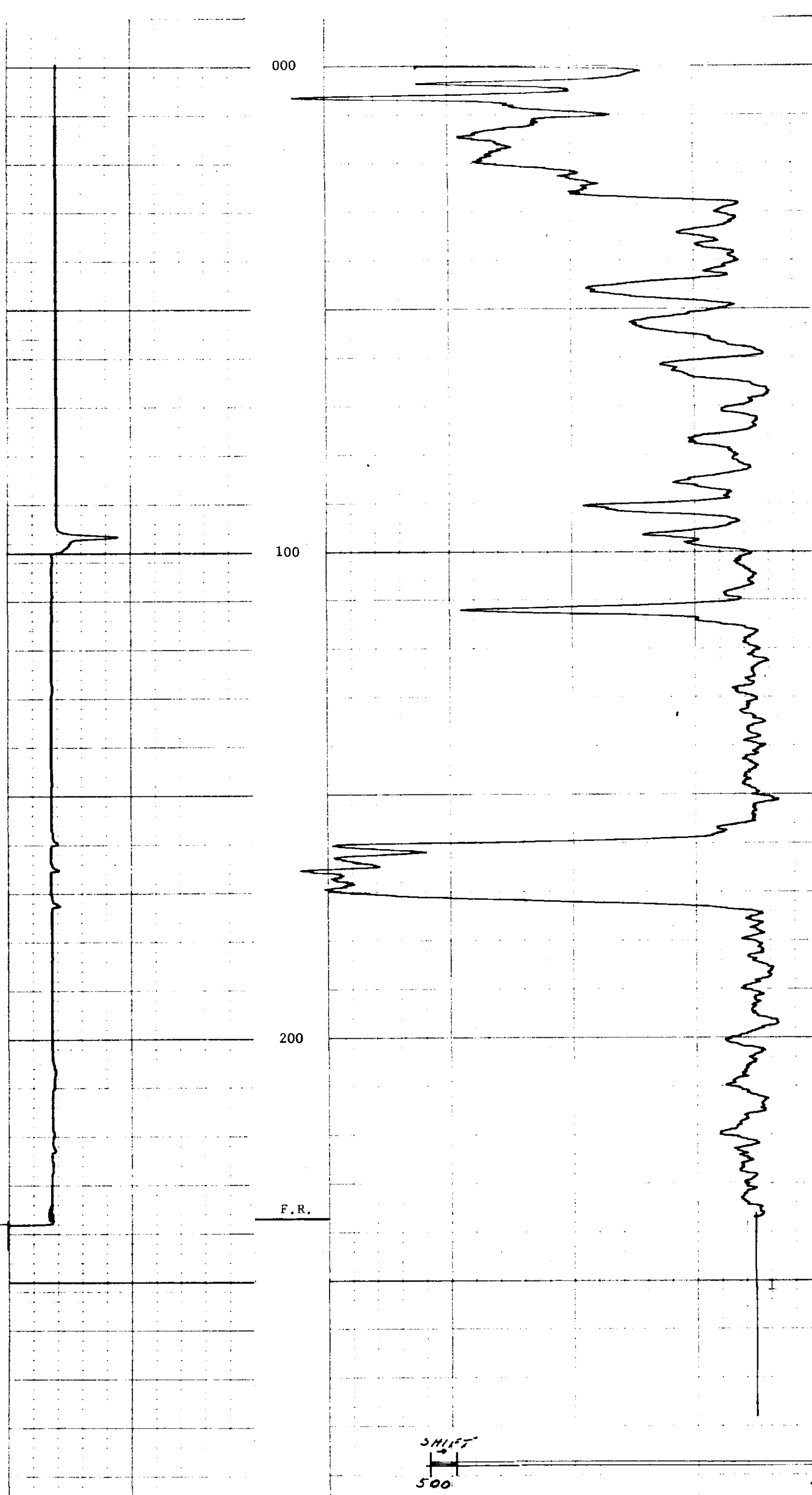
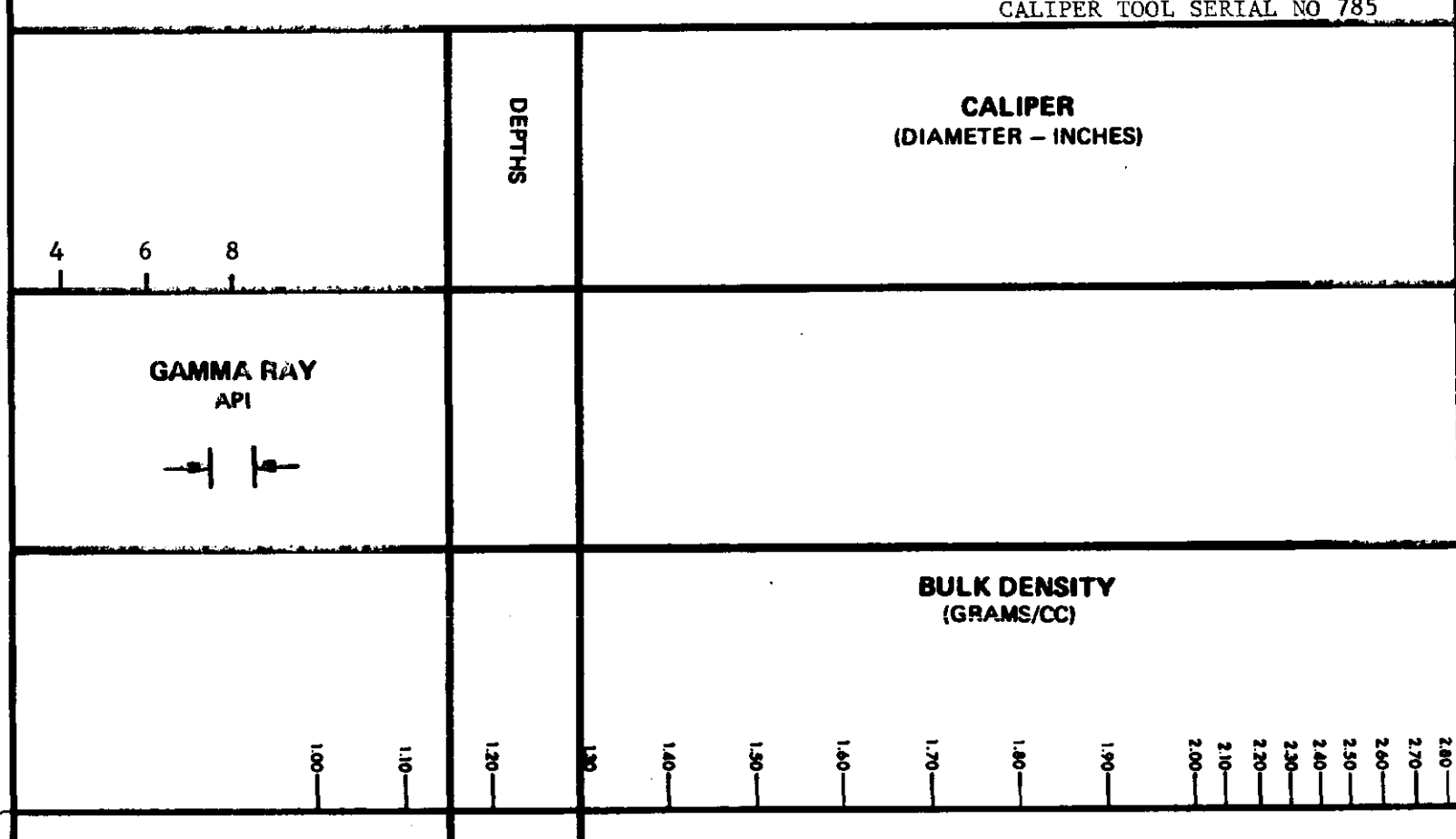
Recorded By STM

Witnessed By GREEN

RUN NO.	DEPTHS		SPEED FT/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API G.R. UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	CPS/ DIV
	FROM	TO									
1	00	237	12					3	500	1.12R	31.69

GENERAL			GAMMA RAY				SIDEWALL DENSILOG				
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API G.R. UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	CPS/ DIV
1	00	237	12					3	500	1.12R	31.69

REMARKS
DENSITY TOOL SERIAL NO 241
CALIPER TOOL SERIAL NO 785

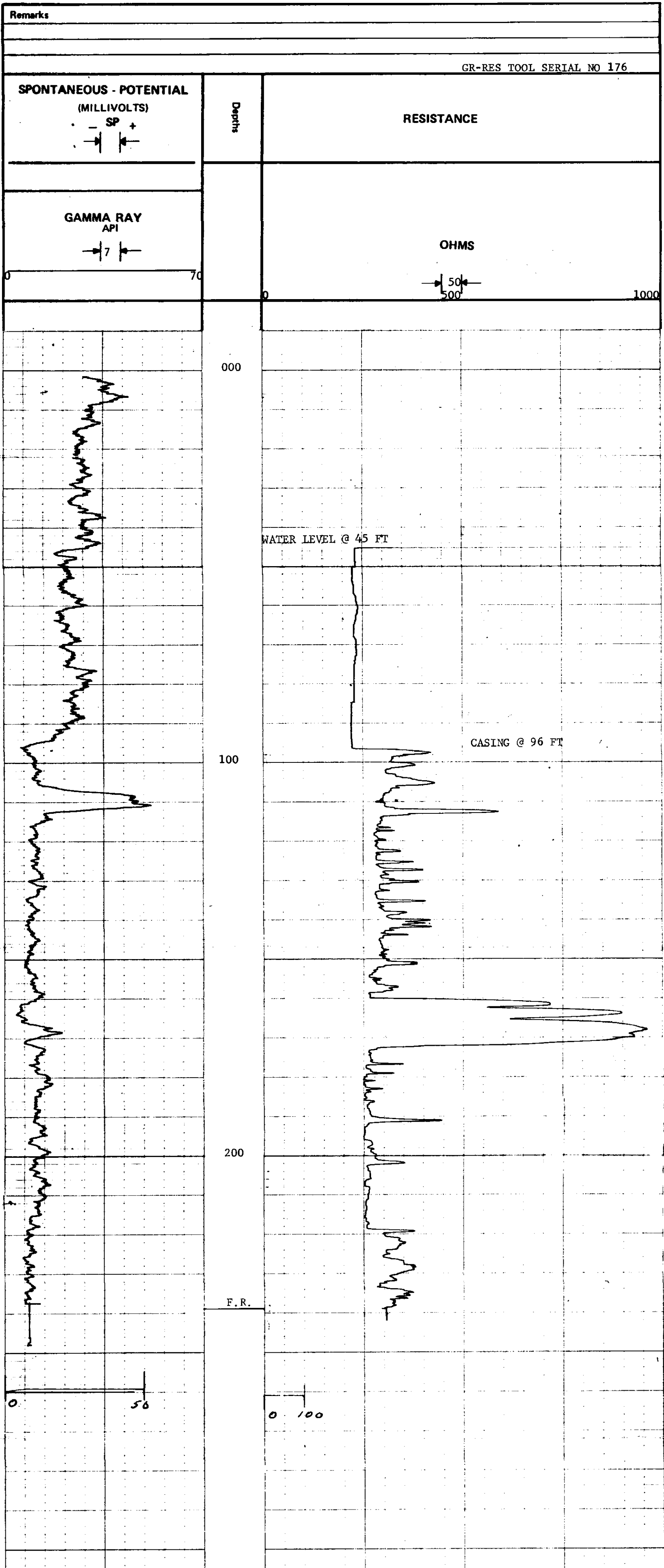


ROKE

GAMMA RAY - RESISTANCE LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	WELLWOOD OF CANADA LTD
LSD	WELL	ECHO LAKE # 5
SEC	LOCATION	E-5
TWP	FIELD	CAMPBELL RIVER
RGE	PROVINCE	BRITISH COLUMBIA
W	Permanent Datum	GROUND LEVEL
M	Log Measured from	CASING
	Well Depths Measured from	
	Elev.	1046
	Ft. Above Perm. Datum	
	Other Services:	DENS-CAL
		K.B.
		CSG
		G.I.
		1046
Run No.	ONE	
Date	25 JULY 1975	
First Reading	239	
Last Reading	00	
Footage Logged	239	
Depth Reached	239	
Depth Driller	241	
Casing Roke	96	
Casing Driller		
Fluid Type	WATER	
Liquid Level	45	
Min. Diam.	4-3/4	
Rm @ of		
Operating Time	1-1/2 HOURS	
Truck No.	30	
Recorded By	SIM	Witnessed By GREEN



ROKE

GAMMA RAY - RESISTANCE LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO. COMPANY WELWOOD OF CANADA LTD

WELL ECHO LAKE # 7

LOCATION EL-7

FIELD CAMPBELL RIVER

PROVINCE BRITISH COLUMBIA

Permanent Datum GROUND LEVEL

Log Measured from CASING

Well Depth Measured from

694
L12

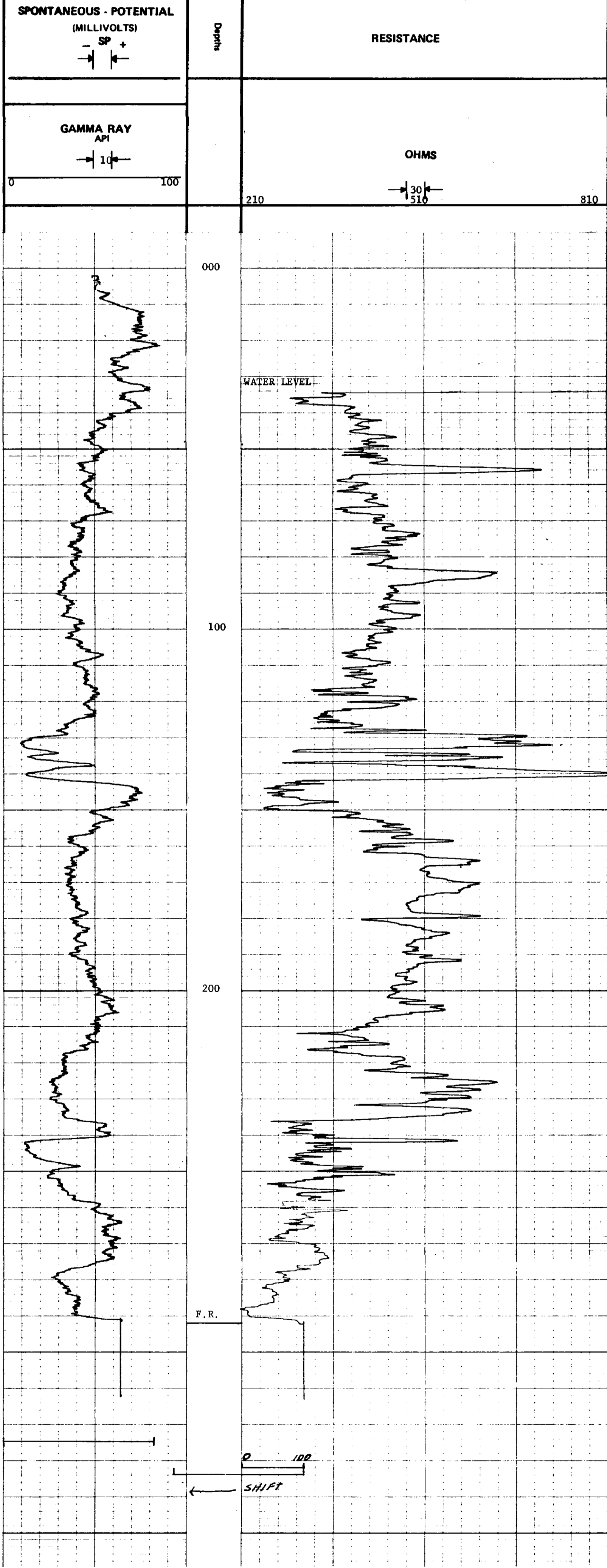
Other Services:
K.B. _____
GRN _____
DENS-CAL _____

Elev. _____
5 Ft. Above Perm. Datum
K.B. _____
CSO _____
G.L. _____

Run No.	ONE
Date	24 JULY 1975
First Reading	292
Last Reading	00
Footage Logged	292
Depth Reached	292
Depth Driller	
Casing Roke	12
Casing Driller	
Fluid Type	WATER
Liquid Level	32
Min. Diam.	4-3/4
Rm. of	
Operating Time	1-1/2 HOURS
Truck No.	30
Recorded By	STM
Witnessed By	GREEN

Remarks LOGGED 0.5 FEET LOW

GR-RES TOOL SERIAL NO 176



ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA
 GAMMA RAY NEUTRON LOG

FILE NO. _____
 COMPANY WELLMOOD OF CANADA LTD
 WELL ECHO LAKE # 7
 LOCATION E1-7
 FIELD CAMPBELL RIVER
 PROV. BRITISH COLUMBIA
 PERMANT DUTUM GROUND LEVEL
 Log Measured from CASING Elev. _____
 Well Depth Measured from _____ 5. Ft. Above Perm. Datum
 Other Services:
 GR-RES _____
 DENS-CAL _____
 K.B. _____
 CSG _____
 G.L. _____

694
 L13

Run. No.	ONE
Date	24 JULY 1975
First Reading	292
Last Reading	00
Footage Logged	292
Depth Reached	293
Depth Driller	
Casing Driller	12
Fluid Type	WATER
Liquid Level	32
Min. Diam.	4-3/4
Rm. @ of	
Operating Time	1-1/2 HOURS
Truck No.	30
Recorded By	SDM
Witnessed By	GREEN

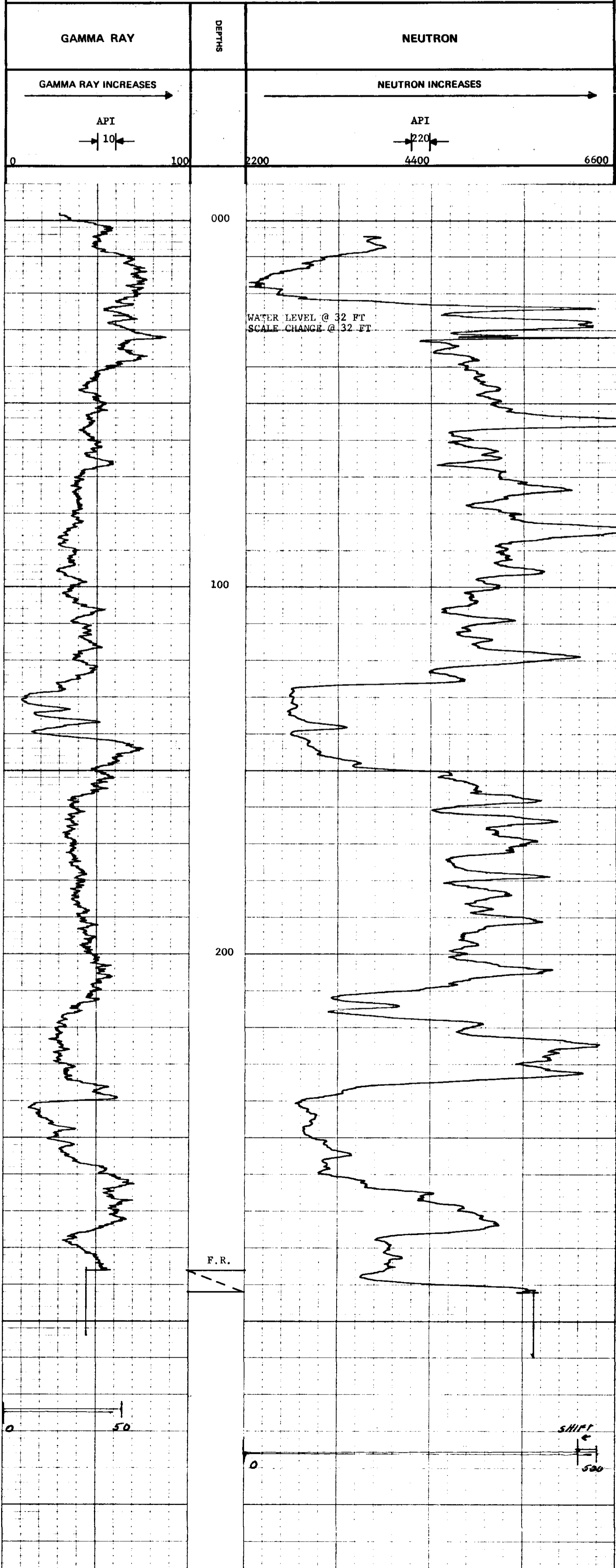
EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	1-1/4	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	1-1/4
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	4 INCH	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	7.55 FT.	LENGTH	6 INCH
		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	265
GENERAL		SPACING	
HOIST TRUCK NO.	30	TYPE	AmBe
INSTRUMENT TRUCK NO.		STRENGTH	3 CURIES
TOOL SERIAL NO.	RGRN 125-001		

LOGGING DATA

RUN NO.	GENERAL		GAMMA RAY				NEUTRON				
	FROM	TO	SPEED FT/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API G. R. UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API N. UNITS PER LOG DIV.
1	00	32	12	5	50	OL	10 API	3	1000	10L	220 API
	32	292	12	5	50	OL	10 API	3	500	1L	110 API

REMARKS



ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

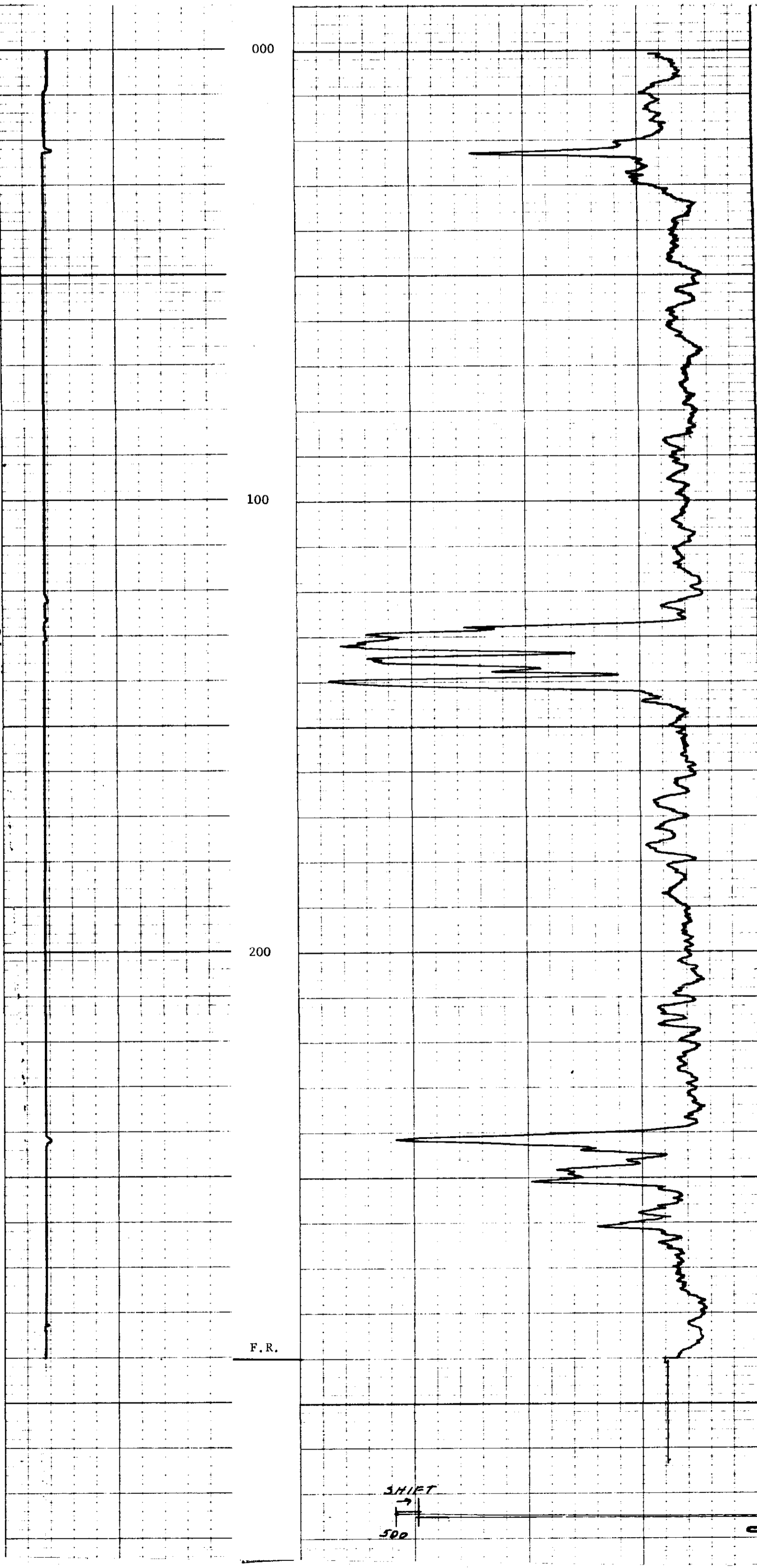
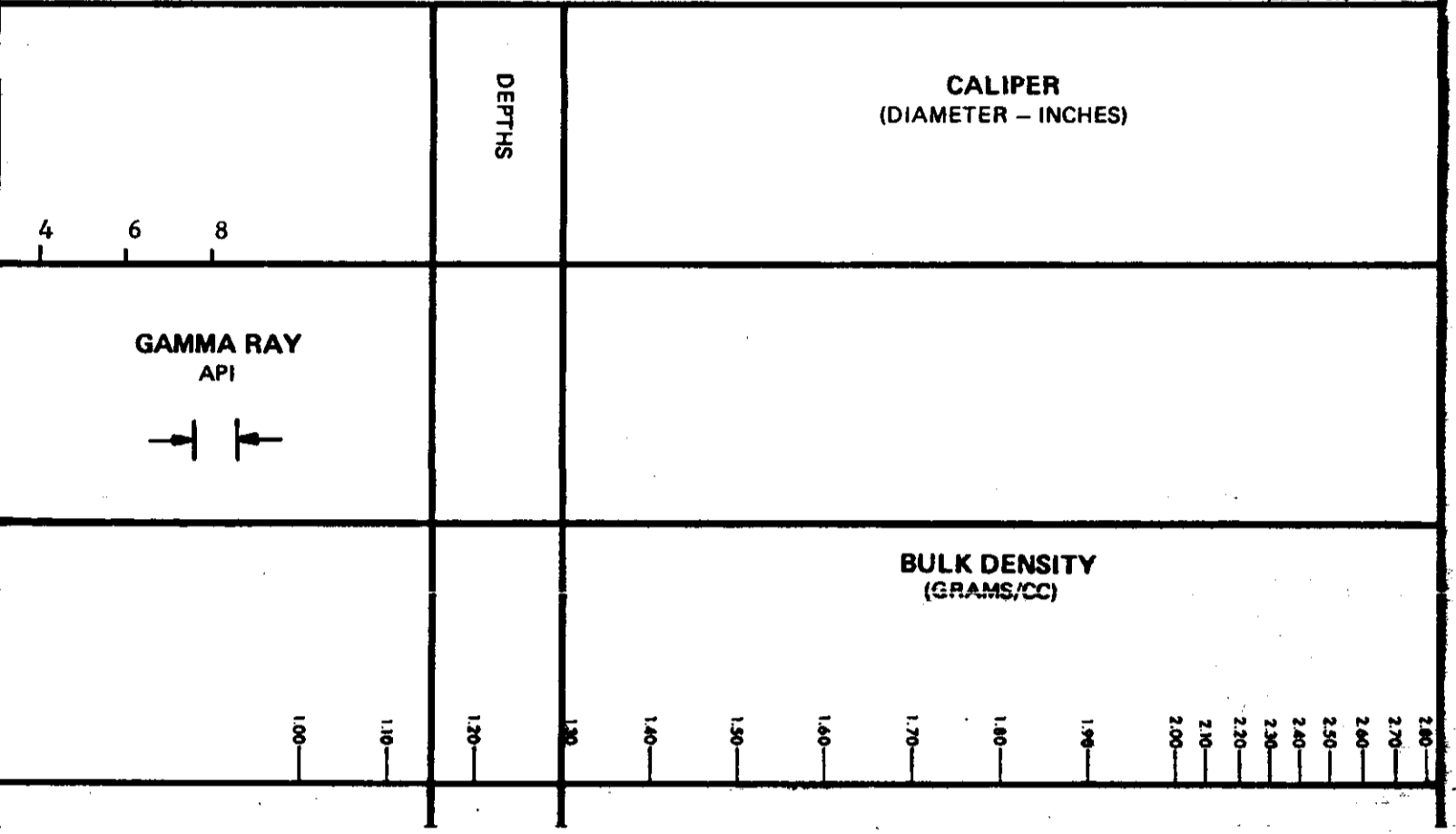
FILE NO. _____
 COMPANY WELLMOOD OF CANADA LTD
 WELL ECHO LAKE # 7
 TWP E-7
 RGE 699
 M 114
 LOCATION CAMPBELL RIVER
 FIELD CAMPBELL RIVER
 PROVINCE BRITISH COLUMBIA

Permanent Datum GROUND LEVEL Elev. _____
 Log Measured from CASING _____ .5 Ft. Above Perm. Datum
 Well Depths Measured from _____
 Other Services:
 GRN _____
 GR-RES _____
 K.B. _____
 CSO _____
 G.L. _____

Run. No. ONE
 Date 24 JULY 1975
 First Reading 290
 Last Reading 00
 Footage Logged 290
 Depth Reached 293
 Depth Driller 12
 Casing Roke _____
 Casing Driller _____
 Fluid Type WATER
 Liquid Level 32
 Min. Diam. 4-3/4
 Operating Time 2 HOURS
 Truck No. 30
 Recorded By STM Witnessed By GREEN

RUN NO.	GENERAL		SPEED FT/MIN	T.C. SEC.	GAMMA RAY			SIDEWALL DENSILOG			
	FROM	TO			SENS SETTINGS	ZERO DIV. L OR R	API G.R. UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	CPS/ DIV
1	00	290	10					3	500	1.2R	31.69

REMARKS
 DENSITY TOOL SERIAL NO 241
 CALIPER TOOL SERIAL NO 785



ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO. COMPANY WELDMOOD OIL CANADA LTD

LSD SEC WELL ECHO LAKE # 8

TWP RGE LOCATION E-L-8

W FIELD CAMPBELL RIVER

PROVINCE BRITISH COLUMBIA

Permanent Datum GROUND LEVEL Elev. 1010

Log Measured from GROUND LEVEL Ft. Above Perm. Datum

Well Depth Measured from G.L. 1010

GR-RES

Other Services:

Run No. ONE

Date 25 JULY 1975

First Reading 306

Last Reading 00

Footage Logged 306

Depth Reached 309

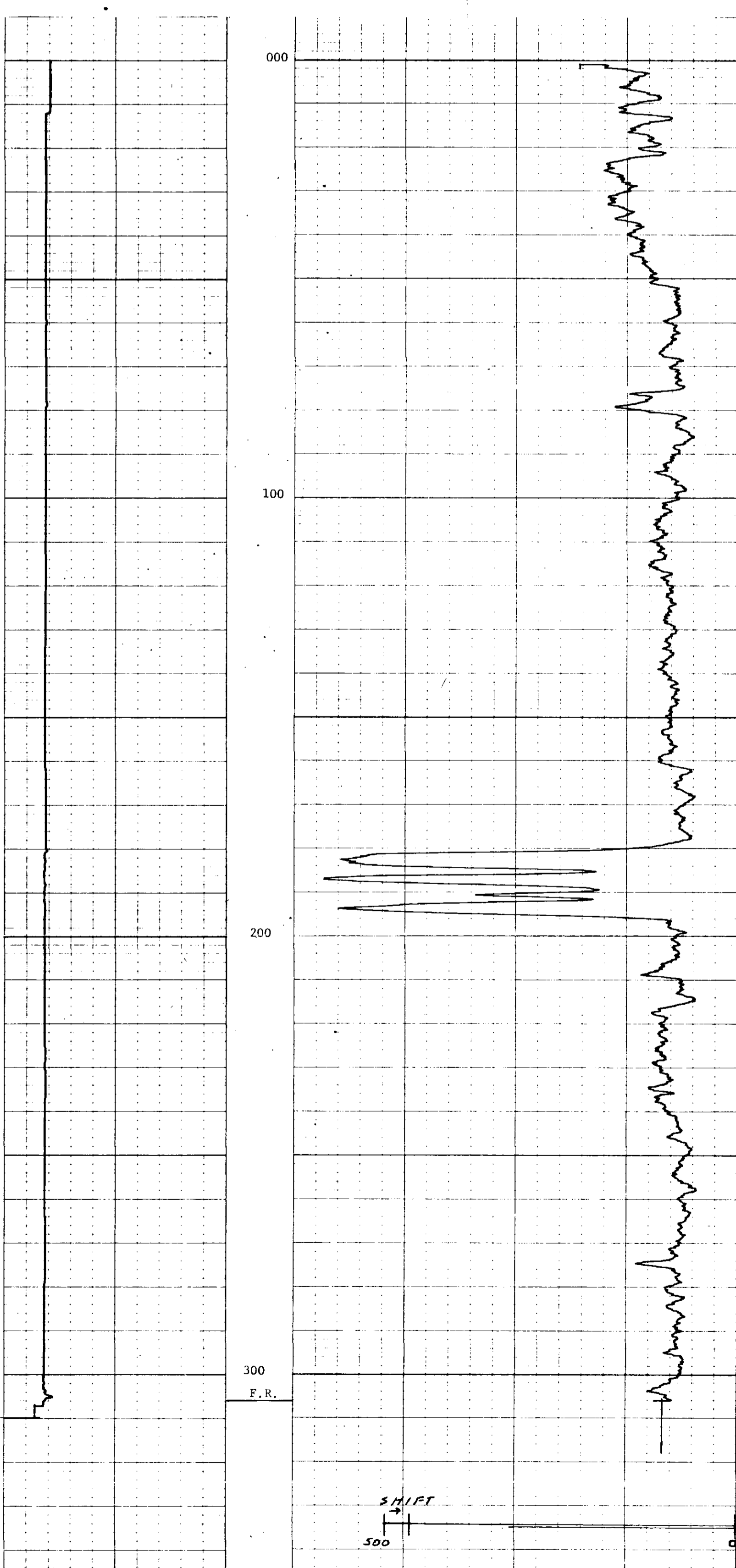
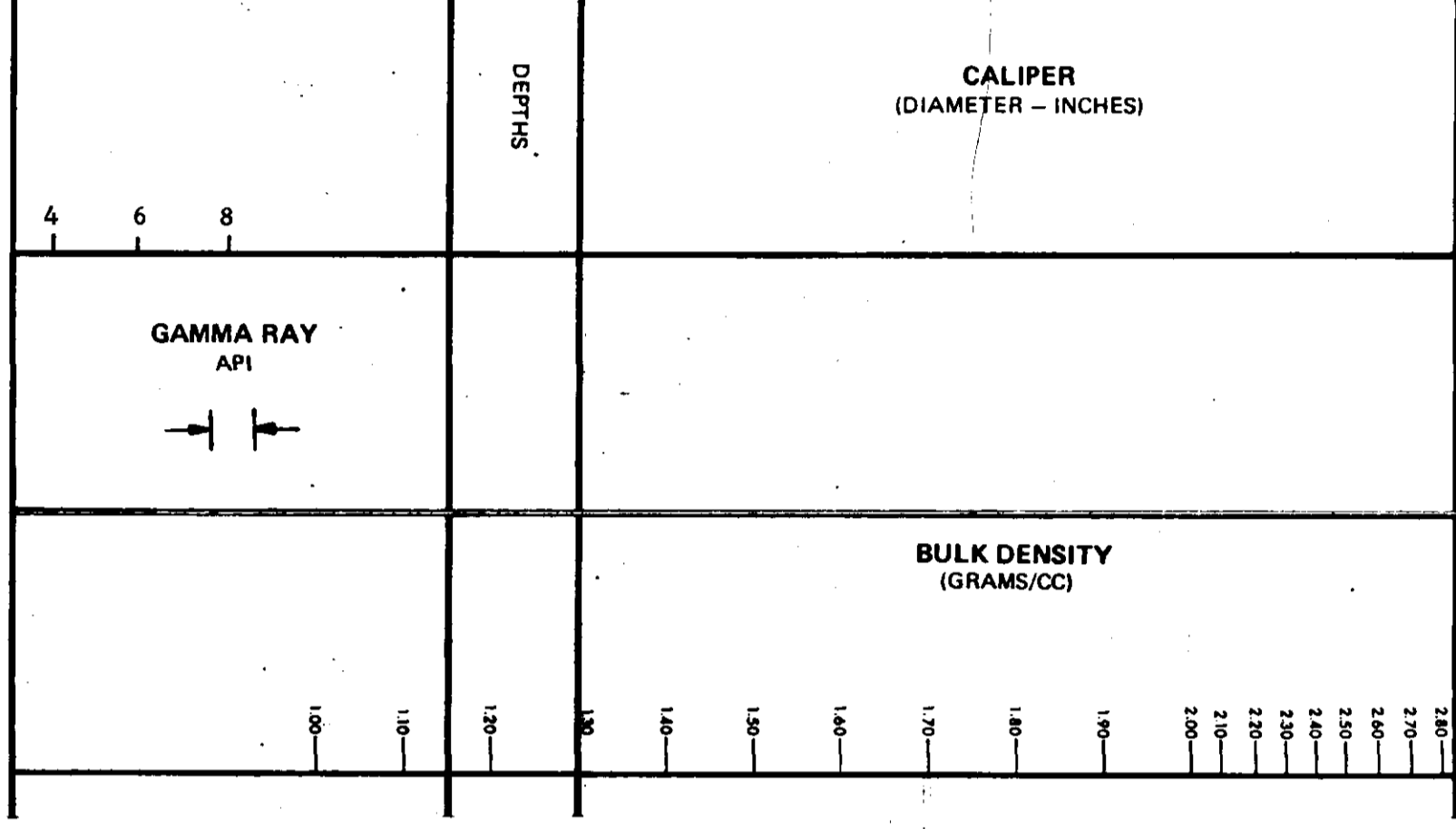
Depth Driller

Casing Driller

Fluid Type	WATER
Liquid Level	52
Min. Diam.	4-3/4
Operating Time	1-1/2 HOURS
Truck No.	30
Recorded By	SIM
Witnessed By	GREEN

RUN NO.	GENERAL		SPEED FT/MIN	T.C. SEC.	GAMMA RAY			SIDEWALL DENSILOG			CPS/DIV
	FROM	TO			ZERO DIV. L OR R	API G.R. UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R		
1	00	306	12				3	500	1.12R	31.69	

REMARKS
DENSITY TOOL SERIAL NO 241
CALIPER TOOL SERIAL NO 785



WELDWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

694
(bb) 58.

BOREHOLE NO. - Dove Creek #1 DC-1
 LOCATION - Cumberland
 ELEVATION - 430
 DATE - June 1975

Type of Cuttings	FEET	
	FROM	TO
Sand and Gravel	0	17
Sandstone	17	23
Grey Sandstone	23	61
Dark Grey Shale	61	65
Coal	65	68.9
Sandstone	68.9	90
Grey Sandstone	90	122.5
Grey Shale - carbonaceous - coal stringers	122.5	131.8
Grey Sandstone	131.8	159.5
Grey Shale	159.5	160
Grey Sandstone	160	181
Grey Silty Shale	181	189
Grey Sandstone	189	197
Grey Shale - coal stringers	197	208
Grey Sandstone	208	251.5
Carbonaceous Shale, Coal	251.5	253.7
Grey Shale	253.7	254.9
Grey Sandstone	254.9	265
Grey Sandstone	265	276
Coal	276	279.1
Black Shale	279.1	282
Dark Grey Sandstone	282	297.6
Coal	297.6	298.8
Siltstone	298.8	303
Sandstone	303	366
Shale, Siltstone - coal stringers	366	379
Hard Sandstone - dark grey	379	380
Hard Shale - dark grey	380	387
Sandstone - dark grey	387	394
Grey Shale	394	407
Sandstone	407	414
Coal	414	415.5
Grey Shale	415.5	418
Grey Sandstone	418	419.5
Grey Shale	419.5	423
Grey Sandstone	423	481

cont'd ...

PH 36.

Borehole No. 1 - Dove Creek

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Carbonaceous Shale, Coal	481	483
Grey Sandstone	483	486
Carbonaceous Shale, Coal	486	487.1
Grey Sandstone	487.1	490
Grey Shale	490	493.5
Coal	493.5	497
Black Shale	497	502
Siltstone	502	504
Sandstone	504	514
Siltstone and Shale - dark grey	514	527
Sandstone - dark grey	527	531.5
Coal and Shale	531.5	532.5
Sandstone with Shale stringers	532.5	565
Soft Grey Shale	565	572
Basalt	572	578
Dark Grey Shale	578	581
Basalt	581	597



PROVINCE _____
FIELD _____
WELL _____
COMPANY _____

WELL DUKE CREEK #1
FIELD CUMBERLAND
PROVINCE ALABAMA
LOCATION Blount Co. Alabama

Log Measured From GA Elev. 420 Elev. 423
Log Measured From GA Elev. 420 Elev. 423
Other Services _____

Well No. _____
First Reading _____
Last Reading 596
Depth Measured 596
Datum Offset 592

Well Name SALT WATER
Well No. _____
Water Level _____
Well Size _____
Source to Detector _____
Equipment Type SPECTRA
Operator B. STUBBART
Checked By G. GREEN

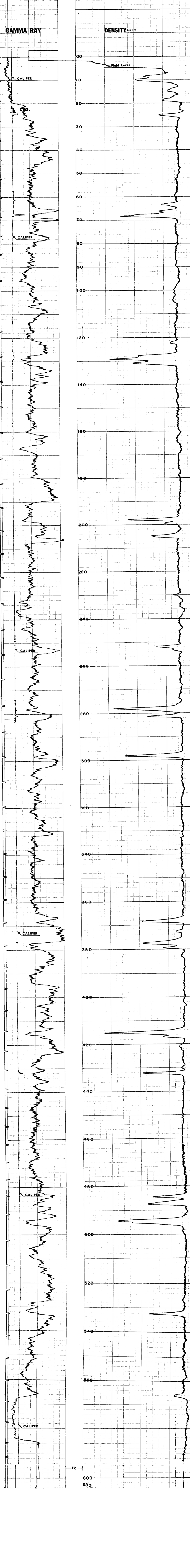
DEPTHS	BULK DENSITY P _b - gm/cc
	SEV 575 FC. 1
	1.50 1.75 2.0 2.75

GAMMA RAY
API UNITS

Sens. 20 TC 2
Zero _____ div. to left

CALIPER
hole diameter in inches

4	5	6	7	8	9	10	11	12
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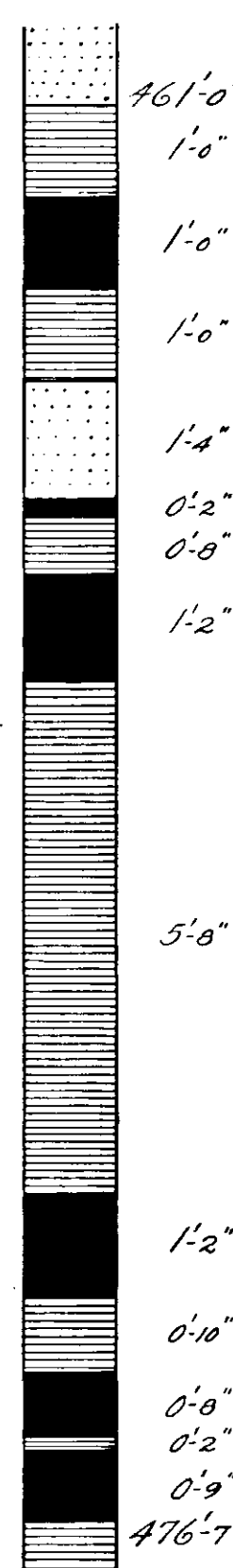
CANADIAN COLLIERIES (DUNSMUIR) LTD
PROSPECT HOLE N^o 142
COMOX FIELD

CX-142

(L1) 694

SCALE: 1"=20'

Material	Section	Thick	Depth below Surface	Elev.	Date
Sand & Gravel		15'-0"		2514.9	1917.
			15'-0"	2499.0	Febr. 17
Sandstone		68'-0"			
Shale		10'-0"	83'-0"	2431.0	
Coal		1'-5"	93'-0"	2421.0	Febr. 21
Shale		0'-11"	94'-3"	2419.6	
Coal		1'-2"	95'-4"	2418.7	
Shale		5'-6"	96'-6"	2417.5	
			102'-0"	2412.0	
Sandstone		18'-0"			
Shale		3'-0"	120'-0"	2394.0	
			123'-0"	2391.0	
Sandstone		46'-0"			
Coal		0'-8"	169'-0"	2345.0	Febr. 24
Shale		2'-4"	169'-8"	2344.3	
			172'-0"	2342.0	
Sandstone		36'-0"			
Shale		6'-0"	208'-0"	2306.0	
			214'-0"	2300.0	
Sandstone		16'-0"			
Shale		4'-0"	230'-0"	2284.0	
Coal		0'-8"	234'-0"	2280.0	Febr. 27
Shale		4'-0"	234'-4"	2279.7	
			239'-0"	2275.0	
Sandstone		20'-0"			
Shale		3'-0"	259'-0"	2255.0	
			262'-0"	2252.0	
Sandstone		40'-6"			
Shale		0'-2"	302'-0"	2211.5	
Boney Coal		0'-2"	302'-8"	2211.3	
Coal		0'-0"	302'-10"	2211.2	
Shale		2'-0"	303'-4"	2210.5	Mar. 2
Sandstone		17'-6"	305'-0"	2208.5	
Coal		0'-4"	323'-0"	2191.0	
Shale		0'-8"	323'-4"	2190.7	
Boney Coal		0'-3"	324'-0"	2190.0	
Shale		1'-9"	324'-3"	2189.7	
Sandy Shale		19'-0"	326'-0"	2188.0	
Shale		7'-0"	345'-0"	2169.0	
Coal		0'-4"	352'-0"	2162.0	
Shale		0'-6"	352'-4"	2161.7	
Coal		0'-6"	352'-10"	2161.2	
Shale		0'-5"	353'-4"	2160.7	Mar. 5
Coal		0'-5"	353'-9"	2160.2	
Shale		3'-4"	354'-3"	2159.8	
Sandstone		2'-6"	357'-8"	2156.5	
Shale		1'-0"	360'-0"	2154.0	
			361'-0"	2153.0	
Shale		1'-0"	461'-0"	2053.0	Mar. 10
Coal		1'-0"	462'-0"	2052.0	
Shale		1'-0"	463'-0"	2051.0	
Sandstone		1'-4"	464'-0"	2050.0	
Coal		0'-2"	465'-4"	2048.7	
Shale		0'-8"	465'-6"	2048.5	
Coal		1'-2"	466'-2"	2047.8	
Shale		5'-8"	467'-4"	2046.7	
Coal		1'-2"	473'-0"	2041.0	
Shale		0'-10"	474'-8"	2039.8	
Coal		0'-8"	475'-0"	2039.0	
Shale		0'-2"	475'-8"	2038.3	
Coal		0'-9"	475'-10"	2038.2	
Shale		5'-5"	476'-7"	2037.4	
Sandy Shale		8'-0"	482'-0"	2032.0	
			490'-0"	2024.0	Mar. 13
Coal		1'-2"	524'-0"	1990.0	
Shale		0'-10"			
Coal		0'-8"			
Shale		0'-2"			
Coal		0'-9"			
		476'-7"			



Lower Seam #9.E.
300' S.E. #25 slope

CANADIAN COLLIERIES (DUNSMUIR) LTD
PROSPECT HOLE N^o 143.
COMOX FIELD

Comox District
 Sec. 4, Twp. 9
CX-143
694
 (2)

Scale: 20' = 1"

Material	Section	Thick	Depth below Surface	Elev.	Date
Gravel & Boulders		6'-0"	6'-0"	2393.0	1917 March 30
Clay		10'-0"	16'-0"	2377.0	
Sand & Gravel		9'-0"	25'-0"	2368.0	April 3
Sandstone		68'-6"			
Coal		0'-3"	93'-6"	2299.5	
Shale		1'-3"	93'-9"	2299.3	
Coal		0'-0"	95'-0"	2298.0	
Shale		6'-0"	95'-6"	2297.3	
Coal		0'-4"	101'-0"	2291.3	
			102'-0"	2291.0	
Sandstone		62'-0"			
Shale		4'-0"	164'-0"	2229.0	
Sandstone		6'-4"	168'-0"	2225.0	
Coal		0'-10"	174'-7"	2218.7	
			175'-2"	2217.8	
Sandy Shale		69'-10"			
			245'-0"	2148.0	April 12
Sandstone		57'-9"			
Coal		0'-2"	302'-9"	2090.2	
Shale		0'-11"	302'-11"	2090.1	
Coal		0'-2"	303'-10"	2089.2	
Shale		0'-2"	304'-0"	2089.0	
Coal		0'-2"	304'-2"	2088.8	
Shale		0'-4"	304'-6"	2088.5	
Sandstone		25'-6"			
			330'-0"	2063.0	
Sandstone		10'-9"	340'-9"	2052.2	
Shale		2'-0"	342'-9"	2050.2	
Coal		0'-9"	343'-6"	2049.5	
Shale		1'-6"	345'-0"	2048.0	
Sandstone		36'-0"			
Shale		4'-0"	381'-0"	2012.0	
Sandstone		5'-0"	385'-0"	2008.0	
			390'-0"	2003.0	April 20
Shale		50'-0"			
			440'-0"	1953.0	
Sandstone		58'-0"			
Shale		2'-0"	498'-0"	1895.0	
Coal & Shale		2'-4"	500'-0"	1893.0	
Shale		8'-4"	502'-4"	1890.7	
Coal		0'-8"	510'-8"	1882.4	
Shale		6'-4"	511'-4"	1881.7	
Coal		0'-6"	517'-8"	1875.3	
Shale		0'-5"	518'-2"	1874.8	
Coal		0'-4"	518'-7"	1874.4	
Shale		9'-1"	518'-11"	1874.1	
			528'-0"	1865.0	April 23
Sandstone		19'-0"			
			547'-0"	1846.0	
Sandy Shale		11'-8"			
Coal		0'-4"	558'-8"	1834.3	
			559'-0"	1834.0	
Shale		18'-0"			
Coal		0'-6"	577'-0"	1816.0	
Sandstone		2'-6"	577'-4"	1815.5	
Coal		0'-6"	580'-0"	1813.0	
Shale & Sandstone		7'-6"	580'-6"	1812.5	
			588'-0"	1805.0	May 2

CANADIAN COLLIERIES (DUNSMUIR) LTD

PROSPECT HOLE N^o 144.

COMOX FIELD

— Scale: 20' = 1" —

Comox District
Sec. 4, Twp. 9.
CX-144

694

(L3)

Material	Section	Thick	Depth below Surface	Elev.	Date
				2494.0	1917
Sand & Gravel		16'-0"	16'-0"	2478.0	May. 10
Boulders & Gravel		23'-0"	39'-0"	2455.0	
Sand & Clay		22'-0"	61'-0"	2433.0	
Boulders & Gravel		25'-0"	86'-0"	2408.0	
Sand & Gravel		33'-0"	119'-0"	2375.0	June 7.
Sandy Shale		24'-0"	143'-0"	2351.0	
Coal		3'-2"	146'-2"	2347.8	
Shale		0'-10"	147'-0"	2347.0	
Coal		0'-6"	147'-6"	2346.5	
Sandstone		0'-4"	147'-10"	2346.2	
Coal		0'-4"	148'-2"	2345.0	
Shale		4'-10"	153'-0"	2341.0	
Sandstone		7'-0"	160'-0"	2334.0	
Agglomerate		2'-0"	162'-0"	2332.0	
Sandstone		2'-0"	164'-0"	2330.0	
Agglomerate		11'-0"	175'-0"	2319.0	
Sandstone		1'-0"	176'-0"	2318.0	
Agglomerate		24'-0"	200'-0"	2294.0	
Sandstone		22'-0"	222'-0"	2272.0	
Agglomerate		5'-0"	227'-0"	2267.0	
Sandstone		3'-0"	230'-0"	2264.0	
Mud & Shale		11'-0"	241'-0"	2253.0	
Sandstone		16'-0"	257'-0"	2237.0	
Trap Rock		11'-0"	268'-0"	2226.0	June 15.

Depth 143'-0"

Coal

Shale

Coal
Sandstone
Coal



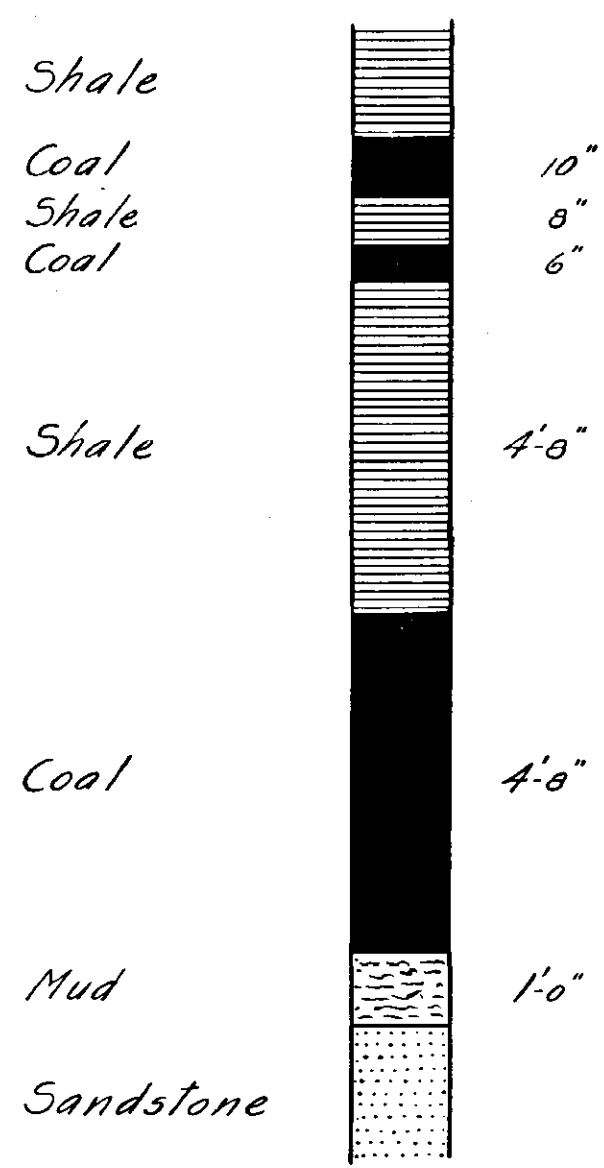
CANADIAN COLLIERIES (DUNSMUIR) LTD
PROSPECT HOLE N^o 145
COMOX FIELD

CX-145
694

(L4)

SCALE: 1"=20'

Material	Section	Thick	Depth below Surface	Elev	Date
				2496.0	1917 July 29
Gravel & Boulders		29'-0"			30
					July 31
Gravel & Sand		11'-0"	29'-0"	2467.0	Aug. 1
Coarse Gravel		5'-0"	40'-0"	2456.0	2
			45'-0"	2451.0	
Clay		21'-0"			3
			66'-0"	2430.0	4
Coarse Gravel		26'-0"			6
					7
					9
			92'-0"	2404.0	Aug. 10
					11
Sandstone		25'-0"			13
Shale		2'-7"	117'-0"	2379.0	
Coal		0'-10"	119'-7"	2376.4	
Shale		5'-7"	120'-5"	2375.6	14
Sandstone		1'-0"	126'-0"	2370.0	
Dirty Coal		1'-0"	127'-0"	2369.0	
Shale		3'-0"	128'-0"	2368.0	
Sandstone		9'-0"	131'-0"	2365.0	
Coal		0'-4"	140'-0"	2356.0	
Shale		1'-8"	140'-4"	2355.7	
			142'-0"	2354.0	15
Sandstone		25'-0"			
Shale		6'-0"	167'-0"	2329.0	
			173'-0"	2323.0	16
Sandstone		25'-0"			
Shale		4'-0"	198'-0"	2298.0	17
			202'-0"	2294.0	
Sandstone		36'-0"			18
Shale		4'-8"			
Shale		4'-6"	238'-0"	2258.0	
Coal		0'-10"	242'-6"	2253.5	
Shale		0'-8"	243'-4"	2252.7	
Coal		0'-6"	244'-0"	2252.0	Aug. 20
Shale		4'-0"	244'-6"	2251.5	
Coal		4'-8"	249'-2"	2246.8	
Mud		1'-0"	253'-10"	2242.2	
Sandstone		5'-2"	254'-10"	2241.2	
Shale		12'-0"	260'-0"	2236.0	21
			272'-0"	2224.0	
Sandstone		39'-0"			22
			311'-0"	2185.0	23
					24
Shale		67'-0"			25
			378'-0"	2118.0	27
Sandstone		40'-0"			28
			418'-0"	2078.0	29
Shale		22'-0"			
Shale & Coal		1'-6"	440'-0"	2056.0	30
Shale		11'-6"	441'-6"	2054.5	
Trap Rock		3'-0"	453'-0"	2043.0	
			456'-0"	2040.0	Aug. 31



CANADIAN COLLIERIES (DUNSMUIR) LTD
PROSPECT HOLE N^o 146
COMOX FIELD

CX-146
 694
 (LS)

SCALE: 1"=20'

Material	Section	Thick	Depth below Surface	Elev.	Date
				2498.0	1917
Gravel & Boulders		15'-0"			Sept. 10
			15'-0"	2483.0	" 11
Gravel & Sand		12'-0"			" 13
			27'-0"	2471.0	" 13
Fine Sand		13'-0"			" 14
			40'-0"	2458.0	" 14
Gravel		16'-0"			" 15
			56'-0"	2442.0	" 15
Fine Sand		13'-0"			" 17
			69'-0"	2429.0	" 17
Hard Clay		6'-0"			" 18
			75'-0"	2423.0	" 18
					" 19
					" 20
					" 21
					" 22
					" 24
					" 25
Gravel & Boulders		88'-0"			" 26
					" 27
					" 28
					" 29
					Oct. 1
					" 2
					" 3
					" 8
					" 9
					" 10
			163'-0"	2335.0	" 11
Sandstone & Shale		14'-0"			" 12
Shale		3'-0"	177'-0"	2321.0	" 12
Sandstone		4'-0"	180'-0"	2318.0	" 12
			184'-0"	2314.0	" 12
Shale		13'-0"			" 13
Sandstone		4'-0"	197'-0"	2301.0	" 13
			201'-0"	2297.0	" 13
Shale		11'-0"			" 15
			212'-0"	2286.0	" 15
					" 16
Sandstone & Shale		43'-0"			" 17
					" 17
Shale		12'-0"	255'-0"	2243.0	" 18
			267'-0"	2231.0	" 19
Sandstone		30'-0"			" 20
					" 20
Trap Rock		13'-0"	297'-0"	2201.0	" 22
			310'-0"	2188.0	" 23

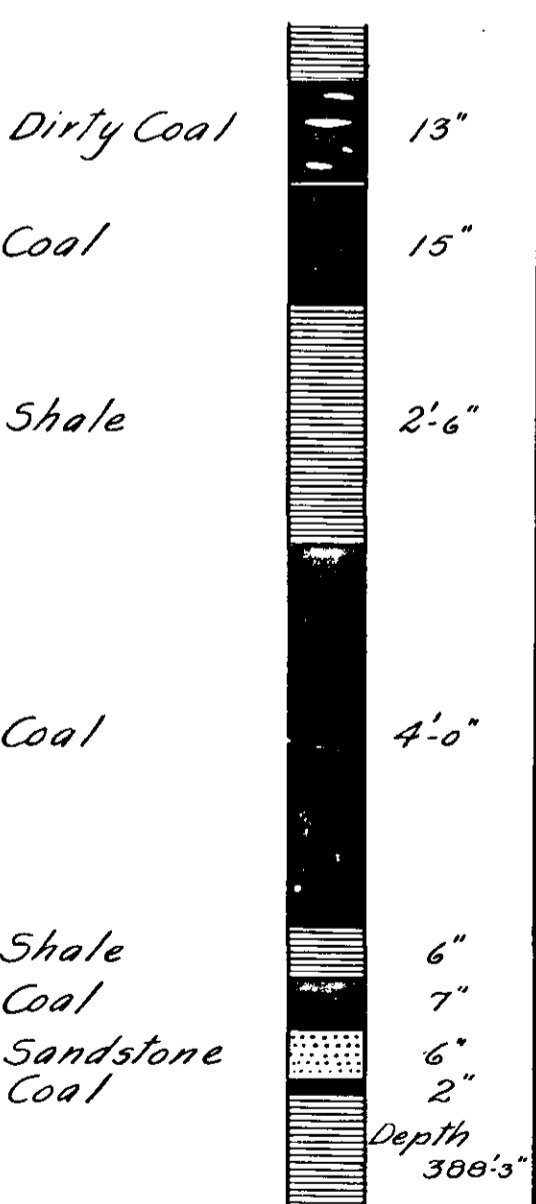
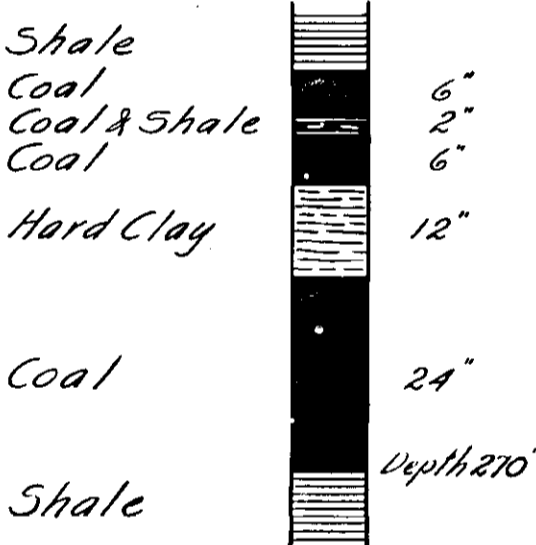
CANADIAN COLLIERIES (DUNSMUIR) LTD
PROSPECT HOLE No 147
COMOX FIELD

CX-147
694

SCALE: 1"=20'

(L6)

Material	Section	Thick	Depth below Surface	Elev.	Date
				2516.0	1917
Gravel		36'-0"			Nov. 1
					" 2
					" 5
			36'-0"	2480.0	" 6
Gravel & Sand		33'-0"			" 7
			69'-0"	2447.0	" 8
					" 9
Sandstone		54'-6"			" 10
			123'-6"	2392.0	
Shale		8'-6"	132'-0"	2384.0	" 12
Sandstone		23'-0"			
			155'-0"	2361.0	
Shale		22'-8"			" 13
Dirty Coal		0'-10"	177'-8"	2338.3	
Sandy Shale		0'-2"	178'-6"	2337.5	
Coal		0'-6"	178'-9"	2337.3	
Shale		10'-10"	179'-2"	2336.0	" 14
			190'-0"	2326.0	
					" 15
Sandstone		68'-0"			
					" 16
Shale		6"			
Coal		2"			
Coal & Shale		6"			
Coal		6"			
Hard Clay		12"			
					" 17
Coal		24"			
					" 18
Shale		Depth 270			
			258'-0"	2258.0	
Shale		8'-0"	266'-0"	2250.0	
Coal		0'-6"	266'-6"	2249.5	
Coal & Shale		0'-2"	266'-8"	2249.3	
Coal		0'-6"	267'-2"	2248.0	
Hard Clay		1'-0"	268'-2"	2247.8	
Coal		2'-0"	270'-2"	2245.0	
Shale		6'-10"	277'-0"	2239.0	
Sandstone		5'-0"	282'-0"	2234.0	" 19
Shale		15'-0"	297'-0"	2219.0	
Coal		0'-9"	297'-9"	2218.3	
Shale		2'-3"	300'-0"	2216.0	" 20
					" 21
Sandstone		50'-0"			
					" 22
Dirty Coal		13"	350'-0"	2166.0	
Coal		15"	350'-8"	2165.3	
			351'-10"	2164.2	
			353'-6"	2162.5	" 23
Shale		2'-6"	354'-0"	2162.0	
			377'-8"	2138.3	
Shale		23'-8"	378'-9"	2137.2	" 24
Dirty Coal		1'-1"	380'-0"	2136.0	
Coal		1'-3"	382'-6"	2133.5	
Shale		2'-6"	386'-6"	2129.5	
Coal		4'-0"	387'-0"	2129.0	Nov. 26
Shale		0'-6"	387'-7"	2128.4	
Coal		0'-7"	388'-1"	2127.9	
Sandstone		0'-6"	388'-3"	2127.7	
Coal		0'-2"	389'-0"	2127.0	
Shale		0'-9"			



Bore Caved.

CANADIAN COLLIERIES (DUNSMUIR) LTD. CX-149

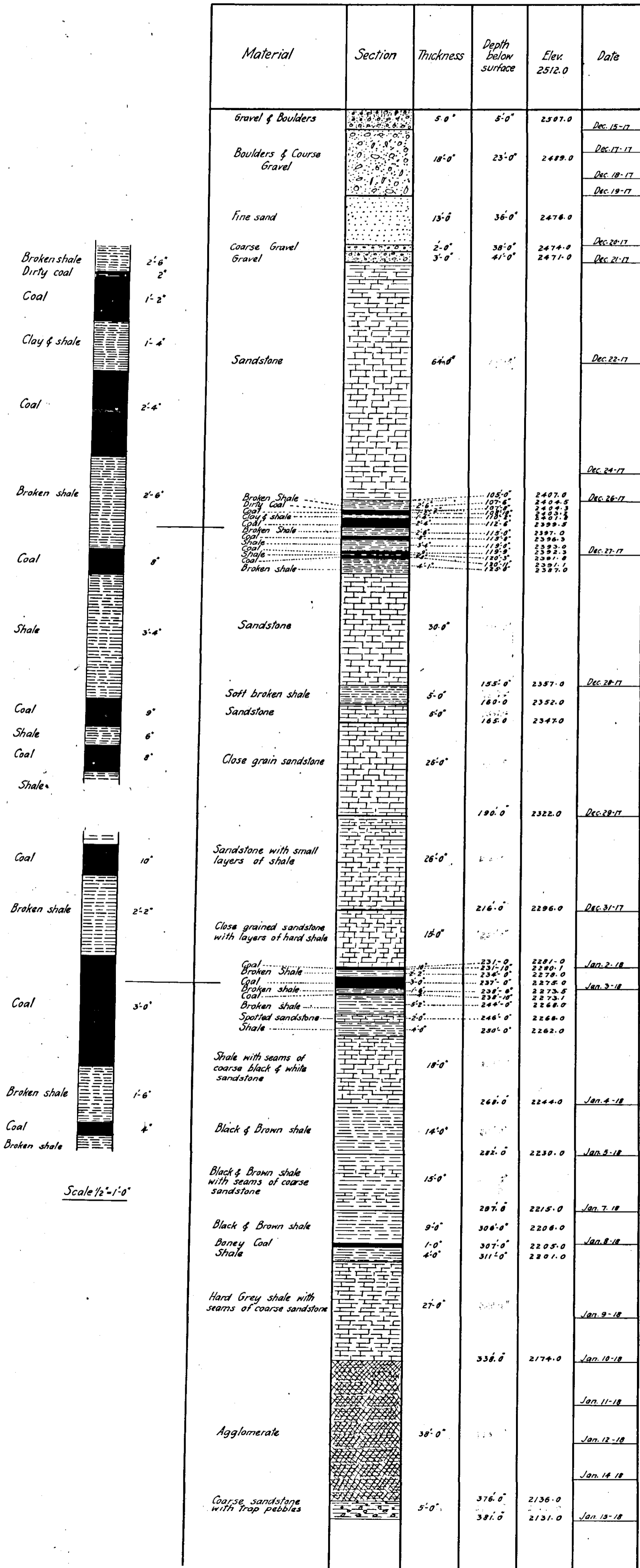
PROSPECT HOLE No. 149

COMOX FIELD

SCALE:- 1"=20'

694

(L7)



BORE HOLE No. 150

COMOX FIELD

SCALE: 1" = 20'

694

(L8)

Gravel and bldrs
Boulders & gravel

Drat not 2000 ft
from Riley

Material	Section	Thickness	Depth below Surface	True Elev. R	Date
Gravel & boulders		15'-0"	15'-0"	2350.6	May 11-18
Coarse gravel		13'-0"	28'-0"	2343.6	" 11-18
Boulders & gravel		10'-0"	38'-0"	2333.6	" 11-18
Clay & fine sand		20'-0"	58'-0"	2313.8	
Gravel		4'-0"	62'-0"	2299.6	May 11-18
Boulders & gravel		20'-0"	82'-0"		" 12 "
Boulders		3'-0"	85'-0"	2289.6	" 15 "
Boulders & gravel		4'-0"	89'-0"	2286.6	" 16 "
Sandstone		6'-0"	95'-0"	2276.6	" 18 "
Hard broken sandy shale		11'-0"	106'-0"	2268.6	" 20 "
Broken sandy shale		17'-0"	123'-0"	2249.6	" 21 "
Hard black shale		20'-0"	143'-0"	2228.6	" 22 "
Hard broken shale		15'-0"	158'-0"	2213.6	" 23 "
? clay sh? Broken muddy shale		17'-0"	175'-0"	2196.6	" 25 "
Flow of water		180'			
Broken sandstone		22'-0"	197'-0"	2174.6	" 27 "
Sandstone		45'-0"			" 28 "
Coal		6"	243'-0"	2131.6	" 29 "
			243'-0"	2131.7	
Sandstone		46'-6"			" 30 "
Shale		15'-0"	289'-0"	2084.6	" 31 "
Soft coal		6"	300'-0"	2071.9	June 1-18
Broken shale		6'-6"	307'-0"	2064.6	
Flow of gas		339'			" 3 "
Sandstone		88'-0"			" 4 "
Broken shale		6"	388'-0"	1978.6	" 5 "
Shale		3'-6"	391'-6"	1974.7	
Sandy shale		14'-4"	406'-0"	1965.9	
Broken shale		11'-0"	417'-0"	1955.6	
Sandstone		53'-0"	470'-0"	1944.6	" 7 "
Dirty coal		1'-4"	481'-0"	1891.6	" 11 "
Shale		2'-8"	484'-0"	1890.3	
Hard Broken shale & sandstone		20'-0"	504'-0"	1887.6	
Hard broken shale		6'-0"	510'-0"	1887.6	" 12 "
Broken coal		2'-4"	512'-0"	1881.6	
Coal		1'-0"	513'-0"	1880.1	
Broken shale		1'-11"	514'-0"	1878.4	
Broken shale		1'-6"	515'-0"	1877.3	
Dirty coal		1'-2"	516'-0"	1876.4	
Shale		1'-8"	517'-0"	1875.6	" 13 "
Hard broken sandstone with layers of hard shale		6'-2"	523'-0"	1868.6	
Sandstone		12'-0"	535'-0"	1825.6	" 18 "
Hard shale		4'-0"	539'-0"	1813.6	" 19 "
Hard broken shale		6'-0"	545'-0"	1809.6	
Sandstone		14'-0"	559'-0"	1803.6	" 17 "
Hard broken sandstone		18'-0"	577'-0"	1799.6	
[? clay shale?] Hard muddy shale		20'-6"	600'-0"	1771.6	" 16 "
Coal		1'-6"	606'-0"	1751.0	" 19 "
Broken shale		1'-6"	607'-0"	1750.6	" 20 "
Coal		1'-6"	608'-0"	1750.6	
Hard broken shale		11'-10"	620'-0"	1738.6	
Hard broke sandstone		13'-0"	633'-0"	1738.6	" 21 "
Broken sandstone		41'-0"	674'-0"	1723.6	" 22 "
Hard shale		7'-0"	681'-0"	1682.6	" 24 "
Hard Muddy shale		15'-0"	696'-0"	1675.6	
Hard broken shale		2'-0"	701'-0"	1668.6	" 25 "
Broken coal		1'-0"	702'-0"	1668.6	" 26 "
Coal		1'-0"	703'-0"	1668.6	
Shale		1'-0"	704'-0"	1668.6	" 27 "
Shale		1'-0"	705'-0"	1668.6	" 28 "
Hard broken shale		1'-0"	706'-0"	1668.6	" 29 "
Shale		1'-0"	707'-0"	1668.6	" 30 "
Hard broken shale		1'-0"	708'-0"	1668.6	" 31 "
Shale		1'-0"	709'-0"	1668.6	
Hard broken shale		1'-0"	710'-0"	1668.6	" 1 "
Shale		1'-0"	711'-0"	1668.6	" 2 "
Shale		1'-0"	712'-0"	1668.6	" 3 "
Shale		1'-0"	713'-0"	1668.6	" 4 "
Shale		1'-0"	714'-0"	1668.6	" 5 "
Shale		1'-0"	715'-0"	1668.6	" 6 "
Shale		1'-0"	716'-0"	1668.6	" 7 "
Shale		1'-0"	717'-0"	1668.6	" 8 "
Shale		1'-0"	718'-0"	1668.6	" 9 "
Shale		1'-0"	719'-0"	1668.6	" 10 "
Shale		1'-0"	720'-0"	1668.6	" 11 "
Shale		1'-0"	721'-0"	1668.6	" 12 "
Shale		1'-0"	722'-0"	1668.6	" 13 "
Shale		1'-0"	723'-0"	1668.6	" 14 "
Shale		1'-0"	724'-0"	1668.6	" 15 "
Shale		1'-0"	725'-0"	1668.6	" 16 "
Shale		1'-0"	726'-0"	1668.6	" 17 "
Shale		1'-0"	727'-0"	1668.6	" 18 "
Shale		1'-0"	728'-0"	1668.6	" 19 "
Shale		1'-0"	729'-0"	1668.6	" 20 "
Shale		1'-0"	730'-0"	1668.6	" 21 "
Shale		1'-0"	731'-0"	1668.6	" 22 "
Shale		1'-0"	732'-0"	1668.6	" 23 "
Shale		1'-0"	733'-0"	1668.6	" 24 "
Shale		1'-0"	734'-0"	1668.6	" 25 "
Shale		1'-0"	735'-0"	1668.6	" 26 "
Shale		1'-0"	736'-0"	1668.6	" 27 "
Shale		1'-0"	737'-0"	1668.6	" 28 "
Shale		1'-0"	738'-0"	1668.6	" 29 "
Shale		1'-0"	739'-0"	1668.6	" 30 "
Shale		1'-0"	740'-0"	1668.6	" 31 "
Shale		1'-0"	741'-0"	1668.6	" 32 "
Shale		1'-0"	742'-0"	1668.6	" 33 "
Shale		1'-0"	743'-0"	1668.6	" 34 "
Shale		1'-0"	744'-0"	1668.6	" 35 "
Shale		1'-0"	745'-0"	1668.6	" 36 "
Shale		1'-0"	746'-0"	1668.6	" 37 "
Shale		1'-0"	747'-0"	1668.6	" 38 "
Shale		1'-0"	748'-0"	1668.6	" 39 "
Shale		1'-0"	749'-0"	1668.6	" 40 "
Shale		1'-0"	750'-0"	1668.6	" 41 "
Shale		1'-0"	751'-0"	1668.6	" 42 "
Shale		1'-0"	752'-0"	1668.6	" 43 "
Shale		1'-0"	753'-0"	1668.6	" 44 "
Shale		1'-0"	754'-0"	1668.6	" 45 "
Shale		1'-0"	755'-0"	1668.6	" 46 "
Shale		1'-0"	756'-0"	1668.6	" 47 "
Shale		1'-0"	757'-0"	1668.6	" 48 "
Shale		1'-0"	758'-0"	1668.6	" 49 "
Shale		1'-0"	759'-0"	1668.6	" 50 "
Shale		1'-0"	760'-0"	1668.6	" 51 "
Shale		1'-0"	761'-0"	1668.6	" 52 "
Shale		1'-0"	762'-0"	1668.6	" 53 "
Shale		1'-0"	763'-0"	1668.6	" 54 "
Shale		1'-0"	764'-0"	1668.6	" 55 "
Shale		1'-0"	765'-0"	1668.6	" 56 "
Shale		1'-0"	766'-0"	1668.6	" 57 "
Shale		1'-0"	767'-0"	1668.6	" 58 "
Shale		1'-0"	768'-0"	1668.6	" 59 "
Shale		1'-0"	769'-0"	1668.6	" 60 "
Shale		1'-0"	770'-0"	1668.6	" 61 "
Shale		1'-0"	771'-0"	1668.6	" 62 "
Shale		1'-0"	772'-0"	1668.6	" 63 "
Shale		1'-0"	773'-0"	1668.6	" 64 "
Shale		1'-0"	774'-0"	1668.6	" 65 "
Shale		1'-0"	775'-0"	1668.6	" 66 "
Shale		1'-0"	776'-0"	1668.6	" 67 "
Shale		1'-0"	777'-0"	1668.6	" 68 "
Shale		1'-0"	778'-0"	1668.6	" 69 "
Shale		1'-0"	779'-0"	1668.6	" 70 "
Shale		1'-0"	780'-0"	1668.6	" 71 "
Shale		1'-0"	781'-0"	1668.6	" 72 "
Shale		1'-0"	782'-0"	1668.6	" 73 "
Shale		1'-0"	783'-0"	1668.6	" 74 "
Shale		1'-0"	784'-0"	1668.6	" 75 "
Shale		1'-0"	785'-0"	1668.6	" 76 "
Shale		1'-0"	786'-0"	1668.6	" 77 "
Shale		1'-0"	787'-0"	1668.6	" 78 "
Shale		1'-0"	788'-0"	1668.6	" 79 "
Shale		1'-0"	789'-0"	1668.6	" 80 "
Shale		1'-0"	790'-0"	1668.6	" 81 "
Shale		1'-0"	791'-0"	1668.6	" 82 "
Shale		1'-0"	792'-0"	1668.6	" 83 "
Shale		1'-0"	793'-0"	1668.6	" 84 "
Shale		1'-0"	794'-0"	1668.6	" 85 "
Shale		1'-0"	795'-0"	1668.6	" 86 "
Shale		1'-0"	796'-0"	1668.6	" 87 "
Shale		1'-0"	797'-0"	1668.6	" 88 "
Shale		1'-0"	798'-0"	1668.6	" 89 "
Shale		1'-0"	799'-0"	1668.6	" 90 "
Shale		1'-0"	800'-0"	1668.6	" 91 "
Shale		1'-0"	801'-0"	1668.6	" 92 "
Shale		1'-0"	802'-0"	1668.6	" 93 "
Shale		1'-0"	803'-0"	1668.6	" 94 "
Shale		1'-0"	804'-0"	1668.6	" 95 "
Shale		1'-0"	805'-0"	1668.6	" 96 "
Shale		1'-0"	806'-0"	1668.6	" 97 "
Shale		1'-0"	807'-0"	1668.6	" 98 "
Shale		1'-0"	808'-0"	1668.6	" 99 "
Shale		1'-0"	809'-0"	1668.6	" 100 "
Shale		1'-0"	810'-0"	1668.6	" 101 "
Shale		1'-0"	811'-0"	1668.6	" 102 "
Shale		1'-0"	812'-0"	1668.6	" 103 "
Shale		1'-0"	813'-0"	1668.6	" 104 "
Shale		1'-0"	814'-0"	1668.6	" 105 "
Shale		1'-0"	815'-0"	1668.6	" 106 "
Shale		1'-0"	816'-0"	1668.6	" 107 "
Shale		1'-0"	817'-0"	1668.6	" 108 "
Shale		1'-0"	818'-0"	1668.6	" 109 "
Shale		1'-0"	819'-0"	1668.6	" 110 "
Shale		1'-0"	820'-0"	1668.6	" 111 "</

Section 21

CX-141

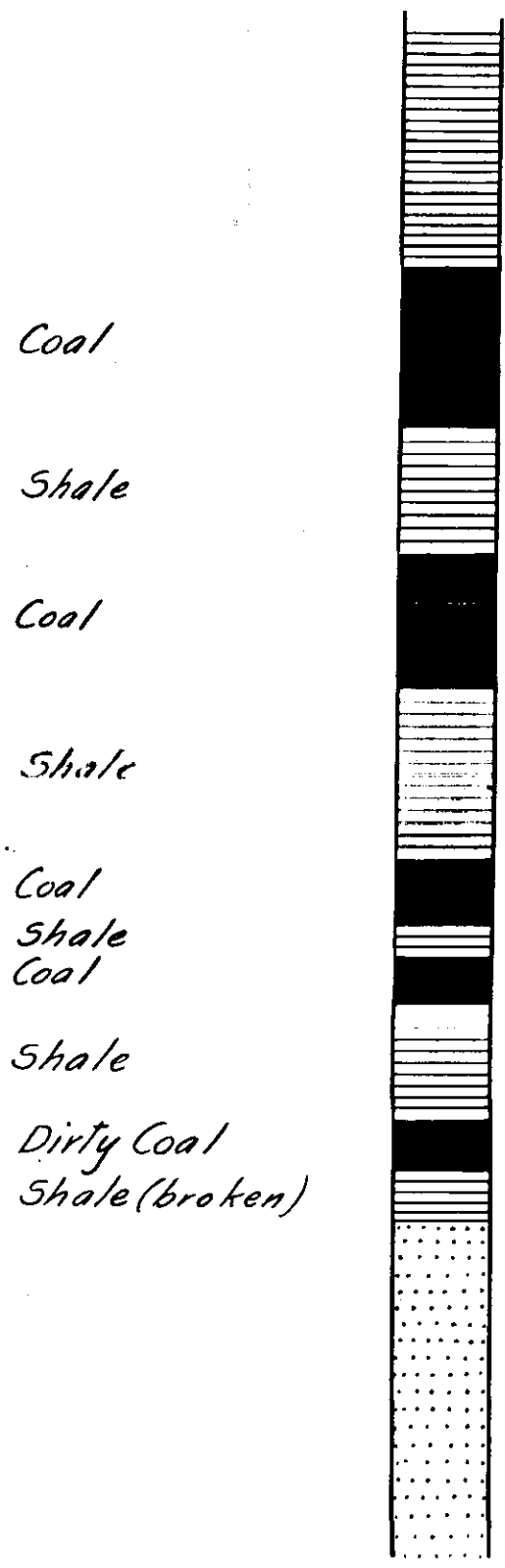
CANADIAN COLLIERIES (DUNSMUIR) LTD
PROSPECT HOLE N°141
COMOX FIELD

694

(67)

(L9)

SCALE: 1"=20'



Material	Section	Thick	Depth below Surface	Elev.	Date
				2555.2	1917.
Sand & Gravel		8'-0"	8'-0"	2547.0	Febr. 2
Sandstone		40'-0"			
Black Shale		1'-0"	48'-0"	2507.0	
Soft Coal		7"	49'-8"	2505.3	
Coal		1'-0"	50'-3"	2504.7	
Shale		8'-9"	51'-3"	2503.7	
Shale		1'-0"	60'-0"	2495.0	
Shale		1'-4"	61'-0"	2493.3	
Coal		1'-5"	63'-0"	2492.0	
Shale		1'-10"	64'-5"	2490.6	
Coal		8"	66'-3"	2488.7	
Shale		4"	66'-11"	2488.1	
Coal		6"	67'-3"	2487.7	
Shale		1'-3"	67'-9"	2487.2	
Dirty Coal		6"	69'-0"	2486.0	
Broken Shales		4"	69'-6"	2485.4	
Sandstone		1'-0"	70'-0"	2483.0	Febr. 3
Lower Seam				2419.0	

at Fan Shaft

CANADIAN COLLIERIES (DUNSMUIR) LTD
 BORE HOLE N°185
 COMOX FIELD

CX-185

694

(LI)

Scale: 1"=20'

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV 212' ABOVE N.W.M. AT UNION BAY	DATE
Gravel & Boulders		9' 6"	9' 6"	202' 5"	Aug 5 th 1910
					6 th
					7 th
					8 th
Shale		106' 6"			9 th
					10 th
					12 th
Shale with layers of Sandstone		13' 0"	116' 0"	96.0	
Shale		10' 0"	129' 0"	83.0	13 th
Shale with bands of Sandstone		15' 0"	139' 0"	73.0	
Sandstone		4' 0"	154' 0"	58.0	14 th
			158' 0"	54.0	
Sandy Shale with bands of Sandstone		28' 0"	186' 0"	26.0	15 th
Shale		23' 0"	209' 0"	3' 0"	16 th
Fine Sandstone		8' 0"	217' 0"	-5' 0"	
Sandstone with layers of Shale		12' 0"	229' 0"	-17' 0"	17 th
Broken Sandstone		9' 0"	238' 0"	-26' 0"	
Sandy Shale with bands of Sandstone		17' 0"	255' 0"	-43' 0"	19 th
Sandstone with bands of Shale		19' 0"			20 th
Broken Sandstone		7' 0"	274' 0"	-62' 0"	
			281' 0"	-69' 0"	21 st
Sandstone with layers of Shale		31' 0"			22 nd
			312' 0"	-100' 0"	23 rd
					24 th
Sandy Shale		77' 0"			26 th
			389' 0"	-177' 0"	27 th
Sandy Shale with bands of Sandstone		21' 0"	410' 0"	-198' 0"	28 th
Sandy Shale		3' 0"			29 th
Sandstone with Shale		5' 0"	441' 0"	-229' 0"	
			446' 0"	-234' 0"	30 th
Sandy Shale		34' 0"			31 st
Sandstone		3' 0"	480' 0"	-268' 0"	
			483' 0"	-271' 0"	
Sandy Shale		11' 0"	494' 0"	-282' 0"	32 nd
					34 th
Sandy Shale with bands of Sandstone		88' 0"			35 th
					36 th
			582' 0"	-370' 0"	37 th
Sandy Shale		41' 6"			38 th
			623' 6"	-411' 5"	39 th
Sandstone		47' 6"			40 th
			671' 0"	-459' 0"	41 st
					42 nd
Sandstone with bands of Shale		78' 6"			43 rd
					44 th
			749' 6"	-537' 5"	46 th
Shale		3' 6"	753' 0"	-541' 0"	
Shale		1' 10"	754' 10"	-542' 8"	
Coal		2' 0"	756' 10"	-544' 8"	
					47 th
Sandstone		83' 2"			48 th
					49 th
Shale		2' 0"	840' 0"	-628' 0"	
Shale		5' 2"	845' 2"	-633' 0"	
Shale		2' 5"	847' 7"	-635' 2"	
Shale		2' 0"	849' 7"	-637' 2"	
					50 th
Sandstone		53' 11"			51 st
					52 nd
Sandstone		30' 6"			53 rd
Shale		6' 6"	910' 0"	-698' 0"	54 th
Sandstone		30' 6"			55 th
Shale		6"	940' 6"	-737' 5"	56 th
Sandstone		9' 0"	950' 0"	-747' 0"	
Shale		4' 0"	963' 0"	-751' 0"	
Sandstone		13' 0"	976' 0"	-764' 0"	57 th
Sandstone with Coal streaks		26' 2"			58 th
Shale		1' 9"	1002' 2"	-790' 2"	59 th
			1003' 11"	-792' 0"	
Shale		11' 3"	1016' 2"	-803' 2"	
Shale		1' 2"	1017' 2"	-804' 2"	
Shale		4' 11"	1021' 3"	-809' 2"	60 th
Sandstone with shale streaks		3' 0"	1024' 0"	-814' 0"	
Shale		8' 0"	1034' 0"	-822' 0"	
Sandstone		10' 0"	1044' 0"	-832' 0"	61 st
Shale		4' 0"	1048' 0"	-836' 0"	
Sandstone		5' 6"	1053' 6"	-841' 5"	
Shale		1' 10"	1055' 4"	-843' 11"	
Shale		2' 6"	1057' 10"	-845' 6"	
Sandstone		2' 9"	1059' 10"	-847' 6"	62 nd
Shale		1' 2"	1061' 0"	-848' 8"	
Sandstone with shale streaks		21' 0"			63 rd
Shale		2' 10"	1082' 0"	-870' 0"	64 th
Shale		7' 5"	1089' 10"	-877' 8"	
Shale		1' 0"	1092' 3"	-880' 2"	
Sandstone		12' 9"	1093' 3"	-881' 2"	65 th
Shale		3' 0"	1106' 0"	-894' 0"	
Shale		2' 0"	1108' 0"	-896' 0"	
			1109' 10"	-897' 5"	66 th
(16' Broken) Sandstone		31' 6"			67 th
Shale		1' 5"	1143' 4"	-931' 3"	
Shale		9' 3"	1144' 3"	-932' 7"	
			1154' 0"	-942' 0"	68 th
Sandstone		29' 0"			69 th
					70 th
Shale		2' 6"	1183' 0"	-971' 0"	
Shale		4' 0"	1189' 6"	-977' 5"	
					71 st
					72 nd
Sandstone (Broken)		52' 6"			73 rd
					74 th
Shale		5' 11"	1242' 0"	-1030' 0"	75 th
Shale		26' 11"	1247' 11"	-1035' 1"	
Shale		5' 0"	1274' 0"	-1062' 0"	
Shale		17' 6"	1279' 0"	-1067' 0"	76 th
Shale (Broken)		10'	1296' 6"	-1084' 5"	
Shale		3' 2"	1300' 0"	-1088' 0"	
Shale		3' 2"	1303' 2"	-1091' 2"	77 th
TROP (Decomposed)		19' 0"			78 th
			1322' 0"	-1110' 0"	79 th

CX-186
694
 (L2)

CANADIAN COLLIERIES (DUNSMUIR) LTD
BORE HOLE No 186
COMOX FIELD
 Scale: 1"=20'

MATERIAL	SECTION THICKNESS	DEPTH BELOW SURFACE	ELEV 244' ABOVE UNION BAY	DATE	
Gravel & Clay with Boulders.	68' 0"	0' 0"	176' 0"	Oct 30 th 1924	
		2' 0"		" 31 st "	
		4' 0"		Nov 2 nd "	
		6' 0"		" 4 th "	
		7' 0"		" 6 th "	
		8' 0"		" 7 th "	
		9' 0"		" 8 th "	
		12' 0"		" 12 th "	
		136' 0"		108' 0"	" 16 th "
		148' 0"		75' 0"	" 16 th "
Shale	68' 0"	136' 0"	108' 0"	" 16 th "	
		148' 0"	75' 0"	" 16 th "	
Shale & Sandstone	33' 0"	182' 0"	62' 0"	" 18 th "	
		168' 0"	75' 0"	" 16 th "	
Shale	15' 0"	182' 0"	62' 0"	" 18 th "	
		168' 0"	75' 0"	" 16 th "	
Shale & Sandstone	20' 0"	202' 0"	42' 0"	" 20 th "	
		208' 0"	36' 0"	" 18 th "	
Sandstone	6' 0"	202' 0"	42' 0"	" 20 th "	
		208' 0"	36' 0"	" 18 th "	
Shale & Sandstone	19' 6"	227' 6"	16' 5"	" 22 nd "	
		236' 0"	8' 0"	" 22 nd "	
Sandstone	8' 6"	227' 6"	16' 5"	" 22 nd "	
		236' 0"	8' 0"	" 22 nd "	
Sandstone & Shale	30' 0"	316' 0"	-72' 0"	" 23 rd "	
		316' 0"	-72' 0"	" 23 rd "	
Shale & Sandstone	60' 0"	376' 0"	-132' 0"	" 26 th "	
		376' 0"	-132' 0"	" 26 th "	
Sandstone & Shale	30' 0"	406' 0"	-162' 0"	" 27 th "	
		406' 0"	-162' 0"	" 27 th "	
Shale & Sandstone	30' 0"	436' 0"	-192' 0"	" 28 th "	
		436' 0"	-192' 0"	" 28 th "	
Shale	30' 0"	466' 0"	-222' 0"	" 29 th "	
		466' 0"	-222' 0"	" 29 th "	
Shale & Sandstone	30' 0"	496' 0"	-252' 0"	" 30 th "	
		496' 0"	-252' 0"	" 30 th "	
Sandstone & Shale	26' 0"	522' 0"	-278' 0"	Dec 2 nd "	
		522' 0"	-278' 0"	Dec 2 nd "	
Sandstone	16' 0"	538' 0"	-294' 0"		
		538' 0"	-294' 0"		
Shale & Sandstone	10' 0"	548' 0"	-304' 0"	" 3 rd "	
		548' 0"	-304' 0"	" 3 rd "	
Shale	56' 0"	604' 0"	-360' 0"	" 5 th "	
		604' 0"	-360' 0"	" 5 th "	
Sandstone with Shale streaks.	115' 8"	719' 8"	-475' 7"	" 12 th "	
		723' 0"	-479' 0"	" 12 th "	
Sandstone	77' 6"	800' 6"	-556' 5"	" 14 th "	
		801' 0"	-557' 0"	" 14 th "	
Shale Green Shale 2' } Coal 2' }	6' 5"	807' 5"	-563' 4"	" 14 th "	
		809' 0"	-564' 0"	" 14 th "	
Sandstone	40' 0"	848' 0"	-604' 0"	" 16 th "	
		851' 0"	-607' 0"	" 16 th "	
Shale Green Shale 1 1/2' } Coal 1' } Coal 1' } Coal 1' } Coal 1' } Coal 1' } Coal 1' } Coal 1' }	11' 0"	862' 0"	-618' 0"	" 17 th "	
		862' 0"	-618' 0"	" 17 th "	
Sandstone	49' 0"	893' 0"	-649' 0"	" 17 th "	
		893' 0"	-649' 0"	" 17 th "	
Shale with Shale streaks.	2' 0"	911' 0"	-667' 0"	" 18 th "	
		913' 0"	-669' 0"	" 18 th "	
Sandstone (Broken)	35' 10"	948' 10"	-704' 0"	" 19 th "	
		950' 10"	-706' 0"	" 19 th "	
Shale Green Shale 2' } Coal 2' } Coal 1 1/2' } Coal 1 1/2' } Coal 1 1/2' } Coal 1 1/2' } Coal 1 1/2' } Coal 1 1/2' } Coal 1 1/2' }	8' 4"	958' 2"	-715' 5"	" 20 th "	
		959' 2"	-716' 5"	" 20 th "	
Sandstone with Shale streaks	15' 9"	967' 3"	-723' 3"	" 20 th "	
		967' 3"	-723' 3"	" 20 th "	
Sandstone	10' 0"	983' 0"	-739' 0"	" 20 th "	
		983' 0"	-739' 0"	" 20 th "	
Broken Sandstone with coal markings	6' 0"	999' 0"	-755' 0"	" 27 th "	
		999' 0"	-755' 0"	" 27 th "	
Shale Coal 1 1/2' } Shale 1' } Coal 1' } Shale 1' } Coal 1' } Coal 1' }	5' 6"	1006' 0"	-762' 0"	" 28 th "	
		1007' 0"	-763' 0"	" 28 th "	
Shale Coal 4' } Coal 1 1/2' } Coal 1 1/2' } Coal 1 1/2' } Coal 1 1/2' } Coal 1 1/2' } Coal 1 1/2' }	5' 6"	1011' 0"	-767' 0"	" 28 th "	
		1011' 0"	-767' 0"	" 28 th "	
Sandstone	11' 7"	1016' 6"	-772' 5"	" 28 th "	
		1022' 0"	-778' 0"	" 28 th "	
Shale Coal 4' } Coal 1 1/2' } Coal 1 1/2' } Coal 1 1/2' } Coal 1 1/2' } Coal 1 1/2' }	11' 7"	1027' 11"	-783' 9"	" 28 th "	
		1027' 11"	-783' 9"	" 28 th "	
Broken Sandstone with Shale streaks	30' 0"	1039' 6"	-795' 5"	Jan 3 rd 1925	
		1044' 0"	-800' 0"	" 4 th "	
Broken Sandstone with Shale streaks	30' 0"	1048' 0"	-804' 0"	" 4 th "	
		1048' 0"	-804' 0"	" 4 th "	
Sandstone Dark Shale (Coal marks)	3' 6"	1075' 0"	-831' 0"	" 7 th "	
		1078' 6"	-834' 5"	" 7 th "	
Broken Shale	5' 0"	1081' 6"	-837' 5"	" 8 th "	
		1081' 6"	-837' 5"	" 8 th "	
Broken Sandstone	17' 0"	1090' 0"	-846' 0"	" 8 th "	
		1090' 0"	-846' 0"	" 8 th "	
Dark Shale Dark Shale	1' 8"	1107' 0"	-863' 0"	" 9 th "	
		1108' 0"	-864' 0"	" 9 th "	
Trap	16' 0"	1112' 0"	-868' 0"	" 10 th "	
		1128' 0"	-884' 0"	" 10 th "	

CANADIAN COLLIERIES (DUNSMUIR) LTD
BORE HOLE NO 187
COMOX FIELD

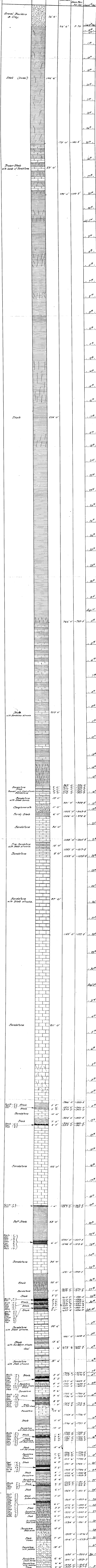
CX-187
694
 (L3)

Scale: 1"=20'

MATERIAL	SECTION THICKNESS	DEPTH BELOW SURFACE	ELEV ABOVE N.M.M. AT UNION BAY 776.4	DATE
Sand, Clay & Gravel	30' 0"	30' 0"	246.4	Jan 20-1941
Shale	14' 0"	44' 0"	232.4	" 21 st
Shale & Sandstone	44' 0"	88' 0"	188.4	" 22 nd
Sandstone & Shale	32' 0"	120' 0"	156.4	" 23 rd
Sandstone	14' 0"	134' 0"	142.4	" 24 th
Shale & Sandstone	10' 0"	144' 0"	132.4	" 25 th
Sandstone & Shale	58' 0"	202' 0"	74.4	" 26 th
Shale & Sandstone	174' 0"	376' 0"	-99.6	Feb 1 st
Shale	76' 0"	452' 0"	-175.6	" 2 nd
Broken fine S.s. with Shale	19' 0"	471' 0"	-194.6	" 3 rd
Shale & Sandstone	22' 0"	493' 0"	-216.6	" 4 th
Shale	55' 0"	548' 0"	-271.6	" 5 th
(3' broken) Shale & Sandstone	2' 0"	550' 0"	-273.6	" 6 th
Sandstone	10' 0"	560' 0"	-283.6	" 7 th
Sandstone & Shale	43' 0"	603' 0"	-326.6	" 8 th
Shale & Sandstone	10' 0"	613' 0"	-336.6	" 9 th
Sandstone & Shale	16' 0"	629' 0"	-352.6	" 10 th
Shale & Sandstone	3' 0"	632' 0"	-355.6	" 11 th
Sandstone	17' 0"	649' 0"	-372.6	" 12 th
Sandstone & Shale	3' 0"	652' 0"	-375.6	" 13 th
Shale 6"	2' 2"	654' 2"	-377.8	" 14 th
Shale 4"				" 15 th
Shale 10"				" 16 th
Shale 6"				" 17 th
Sandstone	87' 2"	741' 4"	-466.9	" 18 th
Shale 1/2"		743' 6"	-467.1	" 19 th
Shale 3"				" 20 th
Coal 2"				" 21 st
Shale 4"				" 22 nd
Sandstone & Shale streaks	15' 0"	757' 6"	-482.1	Mar 1 st
Coal 2"		759' 9"	-483.2	" 2 nd
Shale 3"				" 3 rd
Coal 2"				" 4 th
Sandstone	58' 9"	818' 4"	-542.0	" 5 th
Shale 1 1/2"		822' 9"	-546.4	" 6 th
Shale 3' 0"		827' 4"	-551.0	" 7 th
Shale 2"				" 8 th
Coal 5"				" 9 th
Shale 13"				" 10 th
Coal 1"				" 11 th
Shale 4"				" 12 th
Sandstone	47' 8"	875' 0"	-598.6	" 13 th
Shale	8' 0"	883' 0"	-606.6	" 14 th
Sandstone	5' 0"	888' 0"	-611.6	" 15 th
Shale	3' 0"	891' 0"	-614.6	" 16 th
Sandstone	8' 6"	899' 6"	-623.1	" 17 th
Shale	2' 11"	902' 5"	-625.9	" 18 th
Sandstone	6' 0"	908' 5"	-631.9	" 19 th
Sandst. with Sh. streaks	4' 0"	912' 5"	-635.9	" 20 th
Shale	6' 0"	918' 5"	-641.9	" 21 st
Sandstone	1' 0"	919' 5"	-642.9	" 22 nd
Shale with Coal streaks	10' 0"	929' 5"	-652.9	" 23 rd
Sandstone	10' 0"	939' 5"	-662.9	" 24 th
Shale	1' 0"	940' 5"	-663.9	" 25 th
Sandstone	19' 0"	959' 5"	-682.9	" 26 th
Sandst. with Sh. streaks	3' 6"	963' 1"	-686.5	" 27 th
Shale, Coal	7' 10"	970' 1"	-693.5	" 28 th
Sandstone	2' 0"	972' 1"	-695.5	" 29 th
Shale	2' 6"	974' 7"	-697.1	" 30 th
Shale with Sand. streaks	2' 0"	976' 7"	-699.1	" 31 st
Shale	12' 0"	988' 7"	-711.1	" 32 nd
Sandstone	2' 0"	990' 7"	-713.1	" 33 rd
Shale	3' 0"	993' 7"	-716.1	" 34 th
Sandstone	6' 2"	999' 9"	-722.3	" 35 th
Shale	3' 2"	1002' 1"	-726.3	" 36 th
Coal	4"	1006' 5"	-730.3	" 37 th
Shale	7' 0"	1013' 5"	-737.3	" 38 th
Shale	1' 8"	1015' 3"	-739.5	" 39 th
Sandstone with Shale streaks	34' 4"	1049' 7"	-772.6	" 40 th
Shale with Stone streaks	6' 0"	1055' 7"	-778.6	" 41 st
Shale with Coal streaks	5' 0"	1060' 7"	-783.6	" 42 nd
Sandst. with Coal streaks	3' 0"	1063' 7"	-786.6	" 43 rd
Shale & Coal	2' 0"	1065' 7"	-788.6	" 44 th
Sandstone	25' 0"	1088' 7"	-811.6	" 45 th
Shale	6' 0"	1094' 7"	-817.6	" 46 th
Shale	3' 1"	1097' 8"	-820.6	" 47 th
Sandstone	64' 0"	1161' 8"	-904.6	" 48 th
Shale & Sandstone	1' 0"	1162' 8"	-905.6	" 49 th
Sandstone	15' 0"	1177' 8"	-920.6	" 50 th
Shale	2' 8"	1180' 6"	-923.4	" 51 st
Shale	4' 11"	1184' 7"	-927.5	" 52 nd
Shale with Sand. streaks	19' 5"	1204' 2"	-947.0	" 53 rd
Shale	1' 6"	1205' 8"	-948.6	" 54 th
Shale	5' 2"	1211' 0"	-953.8	" 55 th
Shale	13' 4"	1224' 4"	-967.2	" 56 th
Shale	3' 5"	1227' 9"	-970.7	" 57 th
Shale	4' 3"	1232' 2"	-975.0	" 58 th
Coal 3"		1235' 5"	-978.3	" 59 th
Coal 2"		1237' 7"	-980.5	" 60 th
Coal Shale	3' 6"	1241' 3"	-984.1	" 61 st
Shale	4' 0"	1245' 3"	-988.1	" 62 nd
Coal markings	6' 6"	1251' 9"	-994.7	" 63 rd
Trap		1258' 5"	-1001.3	" 64 th

CANADIAN COLLIERIES (DUNSMUIR) LTD
BORE HOLE No 188
COMOX DISTRICT
 Scale: 1" = 20'

CX-188
694
 (L4)



Analysis Coal 2 1/4"
 Moisture 1.40 %
 Volatile Matter 35.45 %
 Fixed Carbon 49.14 %
 Ash 13.76 %
 Ad. 2.7 U 1722

Analysis Coal core 1 1/4"
 Moisture 1.32
 Volatile M. 34.77
 Fixed Car. 44.71
 Ash 15.17
 Ad. 2.7 U 1725

Analysis Coal core 1 1/2"
 Moisture 1.33
 Volatile M. 34.77
 Fixed Car. 44.71
 Ash 15.17
 Ad. 2.7 U 1725

Analysis Coal core 1 1/2"
 Moisture 1.33
 Volatile M. 34.77
 Fixed Car. 44.71
 Ash 15.17
 Ad. 2.7 U 1725

CANADIAN COLLIERIES (DUNSMUIR) LTD
BORE HOLE No 189
COMOX DISTRICT
 Scale: 1" = 20'

CX-189
694
 LS

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV ABOVE MINKMAY SURFACE 142.0'	DATE
Gravel, boulders clay		23' 0"	23' 0"	126' 0"	Nov 27 1944
Shale		17' 0"	40' 0"	109' 0"	
Sandstone		1' 6"	41' 6"	108' 0"	
					30% Chopped
					12% Drilled by Congo No 116 Coring Bit
					59'
					2"
					3"
					4"
					5"
					6"
					7"
					8"
					9"
					10"
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					193"
					194"
					195"
					196"
					197"
					198"
					199"
					200"

121' Drilled by Congo No 24 Coring Bit

303' Drilled by Congo No 202 Non-Coring Bit, using Reaming Shell

303 ft drilled by Congo non-coring bit No 202, with 5 chips hand set on outside & Reaming Shell.

1315'

Remainder of Hole drilled by Congo coring bit No 24.

Exceptionally heavy outburst of Gas occurred at 617' on Jan 31st while drilling at 1372 ft. Gas ignited & destroyed machine & casing.

Caving

3 sacks Cement poured

Caving still causing trouble 3 sacks Cement poured

Cave still troublesome 3 sacks Cement poured.

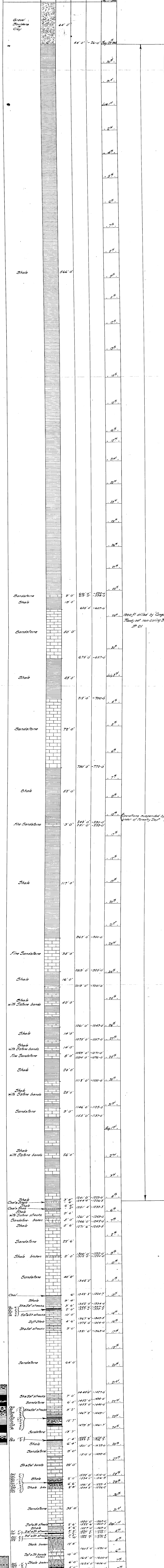
CX-190

CANADIAN COLLIERIES (DUNSMUIR) LTD
BORE-HOLE No 190
COMOX DISTRICT

694

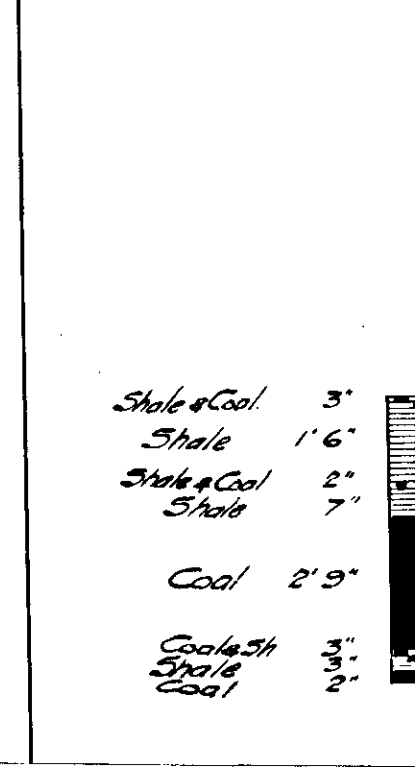
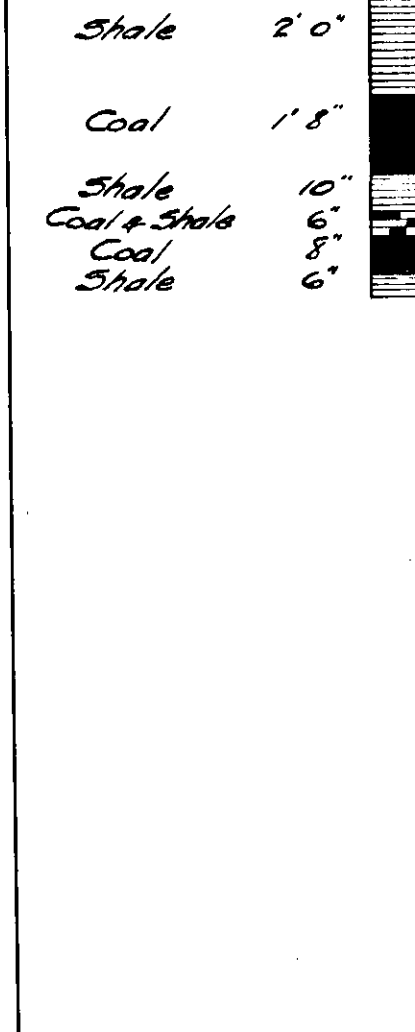
L6

Scale: 1" = 20'



1200 ft drilled by Corp's
 Tandy set non-coring Bit
 No 01

(Operations suspended by
 order of Forestry Dept)




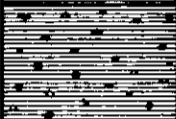
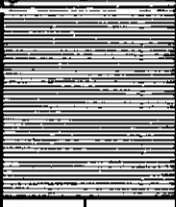

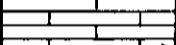
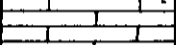
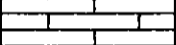
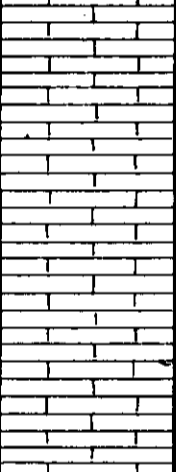
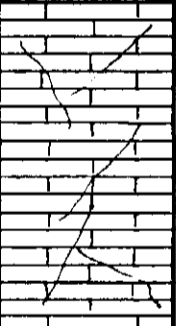


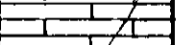

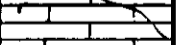








CANADIAN COLLIERIES (DUNSMUIR) LTD.

BORE HOLE N°161

COMOX FIELD

Scale:- 1"=20'

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV. ABOVE H.W.M. AT UNION BAY	DATE
Brown Clay		17' 0"			Aug 23 rd 21
Sand & Gravel		2' 0"	17' 0" 19' 0"	439.0' 437.0'	" 24 th "
Broken Shale		30' 0"			
Bkn Shale with Pebbles		14' 0"	49' 0" 63' 0"	407.0 393.0	" 25 th "
Sandy Shale		20' 0"			
Sandstone		10' 0"	83' 0"	373.0	" 26 th "
Shale & Coal		1' 8"	93' 0"	363.0	
Sandstone		1' 4"	93' 8"	362.3	
Shale & Coal		6"	95' 0"	361.0	
			95' 6"	360.5	
Sandstone		69' 6"			" 27 th "
Broken Sandstone		36' 0"	165' 0"	291.0	" 29 th "
Broken Shale		3' 0"	201' 0"	255.0	
Broken Coal		1' 0"	204' 0"	252.0	
Broken Shale		1' 0"	205' 0"	251.0	
			206' 0"	250.0	" 31 st "
Broken Sandstone		52' 0"			Sept 1 st "
Soft broken Coal		2' 0"	258' 0"	198.0	
Shale		4"	260' 0"	196.0	
Soft broken Coal		8"	260' 4"	195.7	
Shale		6"	261' 0"	195.0	
Soft broken Coal		10"	261' 6"	194.5	
Shale		8"	262' 4"	193.7	
Broken Trap Rock		5' 0"	263' 0"	193.0	" 8 th "
			268' 0"	188.0	

CANADIAN COLLIERIES (DUNSMUIR) LIMITED
 BORE HOLE N° 162
 COMOX FIELD

NELSON DISTRICT

CX-162

694

(L2)

Scale: - 1"=20'

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV. 440. ABOVE H.W.M. AT UNION BAY	DATE
Bog		15' 0"	15' 0"	425.0	
Blue Clay		12' 0"			
Sand & Gravel		1' 0"	27' 0"	413.0	Sept 24 th 21
Broken Shale		4' 0"	28' 0"	412.0	26 th
			32' 0"	408.0	27 th
					29 th
					30 th
Shale		153' 0"			
			185' 0"	255.0	31 st
Broken Shale		19' 0"			
Sandstone		11' 0"	204' 0"	236.0	
			215' 0"	225.0	
Broken Shale		25' 0"			4 th
			240' 0"	200.0	
					5 th
Sandstone		126' 0"			
					6 th
Coal (dirty)		4"	366' 0"	74.0	
Shale		3' 2"	366' 4"	73.7	
Coal (dirty)		6"	374' 6"	65.5	
			375' 0"	65.0	
					7 th
Sandstone		57' 0"			
Shale, Bone & Coal		1' 0"	432' 0"	3.0	
Coal (broken)		1' 0"	433' 0"	7.0	8 th
Black shale		3' 0"	434' 0"	6.0	
Coal		6"	437' 0"	3.0	
			437' 6"	2.5	
					10 th
Sandstone		62' 6"			
			500' 0"	-60.0	
Shale		8' 0"			11 th
			508' 0"	-68.0	
Sandstone		21' 8"			
Coal (broken)		4"	522' 8"	-89.7	
Sandstone		2"	530' 0"	-90.0	
Black shale		2' 2"	530' 2"	-90.3	
Coal (broken)		6"	532' 4"	-92.3	
Shale		1' 6"	532' 10"	-92.8	
Coal		1' 6"	534' 4"	-94.3	12 th
Black shale		1' 10"	535' 0"	-95.0	
Coal		1' 3"	535' 9"	-95.2	
Shale & Coal		1' 10"	537' 7"	-97.1	
Shale & Bone		1' 10"	537' 7"	-97.6	
Coal		1' 2"	539' 5"	-99.4	
Shale			541' 1"	-101.1	
					13 th
Sandstone		42' 5"			
			583' 6"	-143.5	
Coal (dirty) & Mud		1' 6"	585' 0"	-145.0	
Shale		3' 0"	588' 0"	-148.0	
					14 th
Sandstone		27' 0"			
			615' 0"	-175.0	
Shale		26' 0"			15 th
			641' 6"	-201.0	
Coal		1' 6"	642' 0"	-202.5	
Shale		3' 0"	645' 0"	-205.5	
Coal		2' 6"	646' 2"	-206.8	
Shale		5' 2"	649' 10"	-208.0	
Sandy Shale		4' 0"	654' 0"	-214.0	
Sandstone		5' 6"	658' 0"	-218.0	
			663' 6"	-223.5	16 th
Shale		4' 0"	667' 6"	-227.5	
Coal (dirty)		2' 6"	670' 0"	-230.0	
Shale		1' 6"	671' 6"	-231.6	
Sandstone		9' 6"			
			681' 0"	-241.0	
Shale & Sandstone		7' 0"	688' 0"	-248.0	
Coal		2"	688' 2"	-248.2	
Shale & Sandstone		8' 10"			18 th
			697' 0"	-257.0	
Shale		12' 0"			
			709' 0"	-269.0	
Coal & Shale		2' 6"	711' 6"	-271.5	
Shale		3' 6"	715' 0"	-275.0	
Sandstone		12' 0"			19 th
			727' 0"	-287.0	
Mud broken Sandstone		28' 0"			
			749' 0"	-309.0	20 th
Mud		1' 0"	750' 0"	-310.0	
Trap Rock		6' 0"			21 st
			756' 0"	-316.0	

CANADIAN COLLIERIES (DUNSMUIR) LIMITED
BORE HOLE N° 163
COMOX FIELD

Scale 1"=20'

NELSON DISTRICT

CX-163

694

L3

SECTION	MATERIAL	THICKNESS	DEPTH BELOW SURFACE	ELEV. ABOVE H.W.M. AT UNION BAY	DATE
Soil		3'-0"	3'-0"	432.0	
Blue Clay		4'-0"	7'-0"	431.0	
Gravel		5'-0"	12'-0"	426.0	Nov. 1 st 1901
Sand & Gravel		38'-0"			
Coarse Gravel		2'-0"	50'-0"	388.0	
Gravel		5'-0"	55'-0"	386.0	
Shale		1'-0"	56'-0"	385.0	
Broken Shale		71'-0"			
Shale		85'-0"			
Shale & Sandstone		3'-0"	214'-0"	224.0	
Sandstone		6'-0"	217'-0"	221.0	
Shale		75'-0"			
Broken Shale		50'-0"			
Hard gray Sandstone		13'-0"	348'-0"	90.0	
Shale		10'-0"	361'-0"	77.0	
Sandstone		1'-0"	371'-0"	67.0	
Shale & Sandstone		30'-0"	372'-0"	66.0	
Sandstone		10'-0"	402'-0"	36.0	
Brown Shale		2'-8"	412'-0"	26.0	
Bony Coal & Shale		7'-2"	415'-0"	23.0	
Shale		1'-2"	417'-0"	21.0	
Sandstone		9'-6"			
Broken Coal		6"	508'-6"	-70.5	
Broken Shale		8'-0"	509'-0"	-71.0	
Dirty Coal		6"	517'-0"	-79.0	
Sandstone		53'-6"	517'-6"	-79.5	
Broken Shale		5"	571'-0"	-133.0	
Broken Coal		1'-3"	571'-3"	-133.4	
Brown Shale		12'-4"	578'-8"	-134.7	
Sandstone		25'-0"	585'-0"	-147.0	
Hard broken Sandstone		10'-0"	610'-0"	-172.0	
Sandstone		54'-0"	620'-0"	-182.0	
Broken Coal		4"	674'-0"	-236.0	
Broken Muddy Shale		11"	674'-11"	-236.3	
Coal		1'-4"	675'-3"	-237.3	
Shale		4'-4"	675'-4"	-237.3	
Coal		1'-0"	679'-8"	-241.6	
Shale		5'-9"	680'-8"	-242.6	
Broken Coal		1'-5"	686'-5"	-248.4	
Broken Shale		1'-0"	687'-10"	-249.6	
Broken Coal		4"	689'-6"	-251.5	
Broken Shale		2'-0"	690'-0"	-252.0	
Broken Shale		2'-0"	692'-0"	-254.0	
Sandstone		38'-0"			
Shale		1'-0"	730'-0"	-292.0	
Broken Coal		4"	731'-0"	-293.0	
Hard Shale		5'-8"	731'-4"	-293.3	
Sandstone		35'-0"	737'-0"	-299.0	
Layers of Shale & Sandstone		18'-0"	772'-0"	-334.0	
Hard Shale		4'-4"	790'-0"	-352.0	
Coal		2'-10"	794'-4"	-356.3	
Shale (broken)		2'-11"	797'-5"	-359.3	
Coal		6"	799'-5"	-361.4	
Shale		1'-2"	799'-7"	-361.6	
Shale		1'-2"	800'-9"	-362.8	
Coal		5'-8"	805'-7"	-368.9	
Sandstone		8'-0"	815'-11"	-377.9	
Sandstone (hard)		14'-0"	829'-11"	-391.9	
Shale		5'-0"	834'-11"	-398.9	
Coal (broken)		1'-6"	836'-5"	-398.4	
Shale		4'-6"	840'-11"	-402.9	
Sandstone		10'-0"	850'-11"	-412.9	
Shale		6'-0"	856'-11"	-418.9	
Sandstone (fine grain)		11'-0"	867'-11"	-428.9	
Layers of Sandstone & Shale		12'-0"			
Shale		2'-0"	879'-11"	-441.9	
Coal		7'-4"	887'-3"	-445.9	
Shale		1'-6"	888'-9"	-446.9	
Coal (dry)		1'-6"	890'-5"	-447.9	
Shale		3'-0"	893'-5"	-448.9	
Shale (broken brown)		1'-6"	895'-1"	-449.9	
Coal (bony)		4"	896'-4"	-450.9	
Bone		2"	898'-6"	-452.9	
Sandstone		27'-0"	1005'-11"	-567.9	
Sandstone (broken)		56'-0"			
Sandstone		17'-6"	969'-11"	-531.9	
Coal (bony)		1'-0"	987'-5"	-543.4	
Shale (broken)		4'-0"	987'-9"	-543.9	
Coal		1'-6"	990'-11"	-545.9	
Shale		1'-6"	992'-7"	-546.9	
Layers of Shale & Bone		1'-6"	994'-3"	-547.9	
Coal (dry)		1'-8"	995'-11"	-548.9	
Shale		1'-6"	997'-7"	-549.9	
Shale (broken brown)		3'-0"	999'-11"	-551.9	
Coal (bony)		3'-0"	1002'-11"	-554.9	
Shale (broken)		7'-0"	1009'-11"	-561.9	
Bone		6"	1012'-11"	-572.4	
Shale (broken)		3'-6"	1016'-11"	-578.9	
Agglomerate		14'-0"			
Trap		3'-0"	1030'-11"	-592.9	
			1033'-11"	-595.9	

Analysis
 Top Bench 2' 10"
 Moisture... 1.80
 Volatile Matter..... 33.91
 Fixed Carbon..... 56.98
 Ash..... 9.11
 100.00

Bottom Bench 2' 2"
 Moisture... 1.90
 Volatile Matter..... 32.97
 Fixed Carbon..... 56.17
 Ash..... 10.86
 100.00

CX-102
CX-165

NELSON DISTRICT

CANADIAN COLLIERIES (DUNSMUIR) LTD.
BORE HOLE N°165
COMOX FIELD

694
LS

Scale: - 1" = 20'

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV. 4419 ABOVE H.W.M. AT UNION BAY	DATE
Hard brown Clay		11'-0"	11'-0"	430.9	Jan. 3. 22
Sand & Gravel		7'-0"	18'-0"	423.9	- 4 -
Gravel		1'-6"	19'-6"	422.6	- 5 -
Shale		21'-0"	41'-0"	400.9	- 6 -
Sandy Shale with Pebbles and Conglomerate		41'-0"	82'-0"	379.9	- 9 -
Sandstone		4'-0"	86'-0"	375.9	- 10 -
Sandy Shale & Pebbles		8'-0"	94'-0"	367.9	- 11 -
Shale		35'-0"	129'-0"	272.9	- 12 -
Shale with layers of Sandst.		18'-0"	147'-0"	254.9	- 13 -
Shale		129'-0"	165'-0"	228.9	- 14 -
Sandstone		5'-0"	170'-0"	125.9	- 16 -
Shale		132'-0"	302'-0"	120.9	- 17 -
Sandstone		5'-0"	307'-0"	120.9	- 18 -
Shale		132'-0"	439'-0"	120.9	- 19 -
Sandstone		11'-6"	450'-6"	111.1	- 20 -
Shale		20'-0"	470'-6"	111.1	- 21 -
Sandstone		9'-6"	480'-6"	111.1	- 22 -
Shale		2'-0"	482'-6"	111.1	- 23 -
Sandstone		22'-6"	505'-6"	111.1	- 24 -
Coal (dirty)		5"	510'-6"	76.7	- 25 -
Sandstone		5"	515'-6"	76.9	- 26 -
Shale & Bone		5"	520'-6"	77.2	- 27 -
Shale		1'-0"	521'-6"	77.6	- 28 -
Coal (bony) & Shale		5"	522'-6"	78.0	- 29 -
Shale		94'-0"	616'-6"	174.5	- 30 -
Sandstone		58'-2"	675'-2"	175.5	- 31 -
Coal (dirty)		10"	685'-2"	182.9	- 32 -
Shale		7'-7"	692'-9"	183.2	- 33 -
Coal		3"	695'-9"	183.3	- 34 -
Sandstone		5"	698'-9"	183.3	- 35 -
Coal		5"	703'-9"	183.4	- 36 -
Sandstone		58'-0"	761'-9"	174.5	- 37 -
Shale		11'-0"	772'-9"	175.5	- 38 -
Sandstone		18'-4"	791'-1"	175.5	- 39 -
Shale (dirty)		5"	796'-5"	336.6	- 40 -
Shale		5"	801'-5"	336.6	- 41 -
Coal (broken)		1'-10"	802'-5"	337.1	- 42 -
Coal (broken)		2"	804'-5"	337.1	- 43 -
Shale		10'-6"	814'-11"	337.1	- 44 -
Coal		2'-0"	816'-11"	337.1	- 45 -
Shale		2'-0"	818'-11"	337.1	- 46 -
Coal		2'-0"	820'-11"	337.1	- 47 -
Shale		2'-0"	822'-11"	337.1	- 48 -
Sandstone		38'-3"	855'-4"	337.1	- 49 -
Shale		2'-2"	857'-6"	337.1	- 50 -
Coal		4"	861'-6"	337.1	- 51 -
Shale		2'-0"	863'-6"	337.1	- 52 -
Coal		3"	866'-6"	337.1	- 53 -
Shale		2'-0"	868'-6"	337.1	- 54 -
Sandstone		53'-6"	922'-0"	337.1	- 55 -
Coal		1'-8"	923'-8"	453.6	- 56 -
Bone		5"	928'-3"	453.6	- 57 -
Coal		5"	933'-3"	453.6	- 58 -
Bone		5"	938'-3"	453.6	- 59 -
Coal (broken)		1'-3"	943'-3"	453.6	- 60 -
Coal		6"	949'-3"	453.6	- 61 -
Shale		5"	954'-3"	453.6	- 62 -
Coal		5"	959'-3"	453.6	- 63 -
Shale		1'-2"	960'-3"	453.6	- 64 -
Bone		6"	966'-3"	453.6	- 65 -
Coal		1'-2"	972'-3"	453.6	- 66 -
Shale		8'-5"	980'-8"	470.1	- 67 -
Sandstone		11'-0"	991'-3"	470.1	- 68 -
Shale		4'-0"	995'-3"	470.1	- 69 -
Coal (dirty)		1'-6"	996'-9"	470.1	- 70 -
Shale		2'-6"	1002'-9"	470.1	- 71 -
Sandstone		14'-5"	1017'-4"	470.1	- 72 -
Mud and Coal		7"	1024'-1"	503.5	- 73 -
Shale		31'-10"	1055'-1"	504.1	- 74 -
Coal		7'-3"	1062'-4"	535.9	- 75 -
Bone		1'-3"	1063'-7"	535.9	- 76 -
Coal		1'-2"	1064'-9"	535.9	- 77 -
Shale		6"	1070'-5"	535.9	- 78 -
Sandstone		1'-0"	1071'-5"	535.9	- 79 -
Shale		118'-0"	1189'-5"	543.1	- 80 -
Mud		1'-5"	1190'-0"	661.1	- 81 -
Shale		1'-0"	1191'-5"	661.1	- 82 -
Coal		8"	1192'-3"	661.1	- 83 -
Bone		2'-1"	1194'-4"	661.1	- 84 -
Coal		2'-5"	1196'-9"	661.1	- 85 -
Bone and dirty Coal		6"	1202'-5"	661.1	- 86 -
Shale		4'-8"	1207'-3"	661.1	- 87 -
Bone Coal and Shale		4'-0"	1211'-3"	661.1	- 88 -
Broken muddy Shale		12'-0"	1223'-3"	676.1	- 89 -
Trap Rock		10'-0"	1233'-3"	680.1	- 90 -
			1144'-0"	702.1	- 91 -

Analysis
Moisture 115 35.36
Volatile Matter 54.99
Fixed Carbon 8.65
Ash 100.00

CANADIAN COLLIERIES (DUNSMUIR) LTD.
BORE HOLE N^o 166
COMOX FIELD
 Scale:- 1"=20'

NELSON DISTRICT
 CX-166
694
 (26)

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV. 4381' ABOVE UNION BAY	DATE
					Mar 6. 22
					- 7 -
					- 8 -
Sand & Gravel		32' 6"			- 9 -
					- 10 -
					- 11 -
					- 12 -
					- 13 -
					- 14 -
					- 15 -
					- 16 -
					- 17 -
Sandstone		7' 6"	33' 6"	345.6	- 18 -
Shale		1' 0"	101' 0"	338.1	
			102' 0"	337.1	
Sandstone		34' 6"			
Shale		1' 6"	136' 6"	302.6	- 21 -
			138' 0"	301.1	
Sandstone		15' 6"			
			157' 0"	282.1	
Broken Shale & Sandstone		21' 0"			- 22 -
Sandstone		4' 6"	208' 0"	231.1	- 23 -
			212' 6"	226.6	
Conglomerate		16' 6"			
Sandstone		2' 0"	223' 0"	210.1	- 24 -
Broken Conglomerate		2' 0"	225' 0"	208.1	
Conglomerate		14' 0"	233' 0"	206.1	
			247' 0"	192.1	- 25 -
					- 27 -
Conglom. Shale & Sandstone		31' 0"			
			278' 0"	161.1	- 28 -
Layers of Shale & Sandstone		36' 0"			- 29 -
Conglomerate		4' 0"	314' 0"	125.1	
			318' 0"	121.1	
Shale, Sandstone & Conglomerate		30' 0"			- 30 -
Conglomerate		3' 0"	348' 0"	91.1	- 31 -
Sandstone		4' 0"	351' 0"	88.1	Apr 1 -
Conglomerate		5' 0"	355' 0"	84.1	
Hard Sandstone		6' 0"	360' 0"	79.1	
Conglomerate		4' 0"	366' 0"	73.1	- 3 -
Broken Conglomerate		2' 0"	370' 0"	69.1	- 4 -
Sandstone		3' 0"	375' 0"	64.1	
Conglomerate		5' 0"	380' 0"	59.1	- 5 -
Broken Conglomerate		2' 0"	385' 0"	54.1	- 6 -
Conglomerate		2' 0"	387' 0"	52.1	
Hard Sandstone		4' 0"	391' 0"	48.1	- 7 -
Hard Sandstone & Conglomerate		8' 0"	399' 0"	40.1	- 8 -
Broken Conglomerate		11' 0"			- 10 -
Conglomerate		4' 0"	410' 0"	29.1	- 11 -
Sandstone & Conglomerate		5' 0"	414' 0"	25.1	
			419' 0"	20.1	- 12 -
Broken Conglomerate		13' 6"			- 13 -
					- 14 -
Sandstone		4' 6"	432' 6"	6.6	
Conglomerate		1' 0"	437' 6"	2.1	
			438' 0"	1.1	- 17 -
Shale		49' 0"			- 18 -
					- 19 -
Sandstone		5' 6"	487' 0"	-47.9	
			496' 6"	-57.4	- 20 -
					- 21 -
Shale		128' 6"			- 22 -
					- 24 -
Sandstone		13' 0"	625' 0"	-185.9	- 26 -
			638' 0"	-198.9	
Shale		21' 0"			- 27 -
Sandy Shale		12' 0"	659' 0"	-219.9	
			671' 0"	-231.9	- 28 -
Sandstone		33' 6"			
Shale (dirty)		8"	704' 6"	-265.4	
Coal (dirty)		6"	705' 6"	-266.4	
Broken Shale		3' 0"	709' 0"	-269.9	- 29 -
Sandstone		84' 7"			May 1 -
					- 2 -
Bony Coal & Shale		1' 0"	723' 7"	-284.5	- 3 -
Bony Coal		1' 0"	724' 0"	-285.9	
Bony Coal		8' 0"	732' 0"	-352.9	
Muddy Coal		5' 0"	803' 0"	-364.3	- 4 -
Sandstone		57' 7"			- 5 -
Broken Shale		6"	861' 0"	-421.9	- 6 -
Bony Coal		6"	862' 0"	-422.9	
Broken Shale		2"	863' 2"	-423.6	
Coal		7' 2"	870' 4"	-431.7	
Broken Shale		3"	877' 6"	-432.7	- 8 -
			871' 9"	-432.7	
Sandstone		21' 5"			- 9 -
Shale		2' 10"	923' 2"	-484.1	- 10 -
Sandstone		11' 0"	926' 0"	-486.9	
Carbonaceous Shale		12' 0"	937' 0"	-497.9	- 11 -
Sandstone		10' 6"	949' 0"	-509.9	
Dirty Coal		1' 0"	959' 6"	-520.4	- 12 -
Brown Shale		1' 6"	960' 6"	-521.4	
Dirty Coal		1' 0"	962' 0"	-522.9	
Dirty Shale		8"	963' 0"	-523.9	
Dirty Coal		1' 0"	964' 0"	-524.9	
Brown Shale		1' 0"	965' 0"	-525.9	- 13 -
Coal		2' 0"	967' 0"	-527.9	
Brown Shale		1' 4"	968' 0"	-528.9	
Muddy Shale		5' 0"	973' 0"	-533.9	
					- 15 -
Sandstone		47' 0"			- 16 -
Dirty Coal		1' 6"	1020' 0"	-580.9	
Brown Shale		3' 6"	1027' 6"	-582.4	
			1025' 0"	-585.9	- 17 -
Layers of Sand & Shale		18' 0"			- 18 -
Hard Shale		14' 2"	1043' 0"	-603.9	- 19 -
Coal		10"	1057' 8"	-618.1	
Shale		3' 6"	1059' 0"	-619.9	
Coal		1' 10"	1063' 8"	-624.0	- 20 -
Shale		6' 2"	1063' 4"	-624.2	
Coal		2' 0"	1065' 0"	-626.4	
Coal & Bone		2' 0"	1065' 0"	-626.3	
Shale		3' 0"	1075' 0"	-635.9	- 22 -
Sandstone		25' 0"			- 23 -
			1100' 0"	-660.9	
Layers of Shale & Sandstone		19' 0"			- 25 -
Coal		5"	1119' 0"	-679.9	- 26 -
Shale (hard)		6' 7"	1119' 5"	-680.3	
			1126' 0"	-686.9	- 27 -
Shale (hard) & Sandstone		35' 0"			- 28 -
Mud & Bone Shale (broken)		1' 6"	1181' 0"	-721.9	- 30 -
Shale (broken)		1' 0"	1183' 6"	-724.4	
Sandstone		1' 6"	1185' 0"	-725.9	
Shale		1' 0"	1186' 0"	-726.9	- 31 -
Sandstone		69' 6"			June 1 -
					- 2 -
Brown Shale (broken)		10' 6"	1235' 6"	-796.4	- 3 -
Coal (bony)		2' 0"	1246' 0"	-806.9	
			1248' 0"	-808.9	- 5 -
Brown Shale		18' 0"			
Bone & Coal		2' 0"	1266' 0"	-826.9	- 6 -
			1268' 0"	-828.9	
Shale (hard)		16' 0"			- 8 -
Coal (bony)		2' 8"	1284' 0"	-844.9	- 8 -
Trap Rock		5' 4"	1286' 8"	-847.6	- 9 -
			1292' 0"	-852.9	

Blow of Gas at 970

Analysis

Middle Bench	
Moisture	1.35
Volatile Matter	37.45
Fixed Carbon	53.75
Ash	6.45
	100.00

Coke good

CANADIAN COLLIERIES (DUNSMUIR) LTD.
BORE HOLE N°167
COMOX FIELD

NELSON DISTRICT

CX-167

694

L7

Scale: - 1" = 20'

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV. 312 ABOVE H.W.M. AT UNION BAY	DATE
Gravel & Boulders		36' 0"			May 10, 1922
Gravel & Clay		2' 0"	36' 0" 38' 0"	276.0 274.0	11 12 13 15 16 18 19 20 22 23 25 26 27 29 30 31
Shale		369' 0"			June 1 2 3 5 6 7 13 14 15 16 23 24 26 27 28 29 30 July 3 4 5 6 7 8 10 11 12 13 14 15 24 25 31
Shale with Bands of Sandstone		260' 0"			July 3 4 5 6 7 8 10 11 12 13 14 15 24 25 31
Shale		124' 0"			Aug 1 2 3 4 5 7 8 9 10 11 12 13 14 15 24 25 31
Sandy Shale with Bands of Sandstone		15' 0"			791' 0" - 479.0 806' 0" - 494.0
Shale		16' 0"			822' 0" - 510.0
Shale with Bands of Sandstone		15' 0"			837' 0" - 525.0
Sandy Shale		54' 0"			891' 0" - 579.0
Sandstone		20' 0"			911' 0" - 599.0
Sandy Shale		8' 0"			919' 0" - 607.0
Hard Sandstone		44' 6"			Sept 1 2 3 4 5 7 8 9 10 11 12 29
Coal		3"	963' 6" 963' 9"	-661.5 -661.7	4
Shale		3' 6"	823' 5"	-685.4	5
Coal		1' 6"	1026' 10"	-716.4	6
Shale & Coal		2"	1070' 2"	-759.9	7
Shale		7' 8"	1023' 6"	-713.2	8
Coal		3"	1023' 6"	-713.2	9
Shale & Coal		1' 8"	1023' 6"	-713.2	10
Sandstone		1' 2"	1023' 6"	-713.2	11
Shale		1' 2"	1023' 6"	-713.2	12
Sandstone (hard)		22' 0"			13
Shale		3' 0"	1103' 0"	-791.0	14
Shale & Coal		3' 0"	1108' 0"	-796.0	15
Shale (sandy)		5' 0"	1115' 2"	-803.1	16
Sandst with Shale streaks		16' 0"			1131' 2" - 819.1 18 19
Sandstone		76' 6"			20 21
Shale & Coal		3' 0"	1205' 8" 1208' 8"	-898.6 -898.6	22
Shale		9' 3"	1217' 1"	-908.0	23
Shale & Coal		3"	1218' 5"	-909.6	24
Coal		3"	1218' 5"	-909.6	25
Shale & Coal		4' 7"	1223' 8"	-913.2	26
Coal		1' 8"	1223' 8"	-913.2	27
Shale & Coal		1' 8"	1223' 8"	-913.2	28
Coal		2' 4"	1223' 8"	-913.2	29
Shale		2' 0"	1223' 8"	-913.2	30
Sandstone		21' 8"			31
Shale & Coal		1' 10"	1228' 10" 1233' 10"	-941.6 -945.8	32
Shale		15' 4"			1271' 2" - 958.1 33
Sandstone (fine) & Shale		16' 0"			1287' 2" - 975.1 34
Sandstone		41' 3"			35
Shale & Coal		2"	1328' 5"	-1026.4	Oct 2 Moisture 1.10 Volatile Matter 32.10 Fixed Carbon 51.50 Ash 100.00
Coal dirty		3"	1328' 7"	-1026.6	36
Shale		2' 6"	1331' 4"	-1029.8	37
Shale & Coal		3' 0"	1334' 2"	-1032.5	38
Coal		2' 0"	1334' 2"	-1032.5	39
Shale		4' 0"	1340' 7"	-1038.6	40
Sandy Shale		7' 0"	1344' 7"	-1042.6	41
Shale		5' 7"	1351' 7"	-1049.6	42
Coal		9"	1352' 2"	-1050.5	43
Shale		2"	1353' 1"	-1051.4	44
Coal		6"	1358' 7"	-1058.0	45
Shale		6' 0"	1364' 7"	-1064.0	46
Sandstone		15' 0"			1379' 7" - 1067.6 1378' 10" - 1067.8 47
Shale & Coal		3' 0"			1394' 7" - 1082.6 48
Shale		16' 9"			49
Sandstone		29' 0"			50
Shale (sandy)		3' 0"	1423' 7"	-1111.6	51
Coal		3"	1423' 7"	-1111.6	52
Shale		1' 0"	1423' 7"	-1111.6	53
Coal & Shale		2' 8"	1423' 7"	-1111.6	54
Coal		1' 0"	1423' 7"	-1111.6	55
Coal & Shale		2' 0"	1423' 7"	-1111.6	56
Coal		11'	1434' 7"	-1122.1	57
Shale		22' 3"			1437' 4" - 1125.3 58
Coal & Shale		4"	1456' 4"	-1144.3	59
Coal (dirty)		2'	1457' 4"	-1145.4	60
Shale		2' 8"	1460' 5"	-1148.5	61
Coal		1' 0"	1460' 5"	-1148.5	62
Shale		3' 0"	1464' 7"	-1152.6	63
Coal (dirty)		3' 0"	1464' 7"	-1152.6	64
Coal & Coal		10"	1471' 4"	-1159.3	65
Trap		3"	1471' 4"	-1159.3	66

Analysis

Upper Seam

Oct 2.

Moisture	1.10
Volatile Matter	32.10
Fixed Carbon	51.50
Ash	100.00

Lower Seam

Moisture	1.30
Volatile Matter	36.50
Fixed Carbon	53.80
Ash	100.00

10" Bench

Moisture	1.17
Volatile Matter	32.76
Fixed Carbon	53.59
Ash	100.00

CANADIAN COLLIERIES (DUNSMUIR) LTD.
BORE HOLE No. 168
COMOX FIELD

Scale: 1" = 20'

NELSON DISTRICT
CX-168

694

②8

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV. 3385 ABOVE UNION BAY	DATE
Sand		56' 0"			June 23 '22
Gravel, Clay & Boulders		6' 0"	56' 0"	-288.5	-26
Gravel & Boulders		5' 6"	61' 6"	-277.5	-27
			67' 0"	-272.0	-28
Sandstone		34' 6"			July 3
			102' 0"	-237.5	-4
					-5
					-6
					-7
Shale		166' 0"			-8
					-9
					-10
					-11
Sandstone		2' 0"	268' 0"	-51.5	-13
			280' 0"	-28.5	
Shale		40' 0"			-14
			320' 0"	1.5	-15
					-17
					-18
Shale with Bands of Sandstone		135' 0"			-19
					-20
					-21
			473' 0"	-138.5	-22
					-24
Sandst, Shale & Conglom.		69' 0"			-25
					-26
					-27
			542' 0"	-202.5	-28
					Aug 1
Conglomerate		16' 0"	560' 0"	-220.5	-29
					-30
					-31
Shale with Bands of Sandstone		27' 0"			-32
					-33
Sandstone & Conglomerate		4' 0"	587' 0"	-247.5	-34
Conglomerate		1' 0"	591' 0"	-251.5	-35
			592' 0"	-252.5	
Sandstone		36' 0"			-36
			628' 0"	-228.5	-37
Sandstone & Conglomerate		3' 0"	637' 0"	-229.5	-38
					-39
					-40
					-41
					-42
Conglomerate		40' 0"			-43
					-44
					-45
					-46
Sandst. Shale & Conglom.		4' 0"	677' 0"	-337.5	-47
			681' 0"	-341.5	-48
Broken Conglomerate		20' 0"			-49
					-50
Conglomerate & Sandstone		6' 0"	693' 0"	-353.5	-51
					-52
			701' 0"	-361.5	-53
					-54
Conglomerate		28' 0"			-55
					-56
					-57
					-58
					-59
					-60
Conglom. Shale & Sandst.		4' 0"	729' 0"	-383.5	-61
Conglomerate		4' 0"	733' 0"	-387.5	-62
Sandstone		8' 0"	737' 0"	-391.5	-63
					-64
			745' 0"	-404.5	-65
Conglomerate		18' 0"			-66
			763' 0"	-423.5	-67
					-68
Shale		56' 0"			-69
					-70
					-71
Sandstone (hard)		3' 0"	817' 0"	-473.5	-72
Shale		16' 0"	820' 0"	-484.5	-73
					-74
Shale (muddy)		11' 0"	834' 0"	-495.5	-75
					-76
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					-78
Shale		121' 0"			-79
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CANADIAN COLLIERIES (DUNSMUIR) LTD.
BORE HOLE No 169
COMOX FIELD

Scale - 1" = 20'

CX-169
694
L9

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV. FT. ABOVE N.W.M. of UNION BAY	DATE
Surface		15' 0"	15' 0"	263.2	Sept 20 th 20
Shale		157' 0"	170' 0"	106.2	23 rd . 24 th . 25 th .
Shale with hard bands		46' 0"	216' 0"	60.2	26 th .
Shale		40' 0"	256' 0"	20.2	28 th .
Shale with sandy bands		47' 0"	303' 0"	-26.8	28 th . 30 th .
Shale		148' 0"	451' 0"	-174.8	Dec 1 st . 2 nd .
Sandstone		66' 0"	517' 0"	-240.8	3 rd .
Shale		31' 0"	548' 0"	-271.8	4 th .
Shale & Sandst with Pebbles		28' 0"	576' 0"	-293.8	5 th . 6 th . 7 th . 8 th . 9 th . 10 th . 11 th . 12 th . 13 th . 14 th . 15 th . 16 th . 17 th . 18 th . 19 th . 20 th . 21 st . 22 nd . 23 rd . 24 th .
Conglomerate		114' 0"	694' 0"	-407.8	25 th . 26 th . 27 th . 28 th . 29 th . 30 th . 31 st . 32 nd . 33 rd . 34 th . 35 th . 36 th . 37 th . 38 th . 39 th . 40 th . 41 st . 42 nd . 43 rd . 44 th . 45 th . 46 th . 47 th . 48 th . 49 th . 50 th . 51 st . 52 nd . 53 rd . 54 th . 55 th . 56 th . 57 th . 58 th . 59 th . 60 th . 61 st . 62 nd . 63 rd . 64 th . 65 th . 66 th . 67 th . 68 th . 69 th . 70 th . 71 st . 72 nd . 73 rd . 74 th . 75 th . 76 th . 77 th . 78 th . 79 th . 80 th . 81 st . 82 nd . 83 rd . 84 th . 85 th . 86 th . 87 th . 88 th . 89 th . 90 th . 91 st . 92 nd . 93 rd . 94 th . 95 th . 96 th . 97 th . 98 th . 99 th . 100 th .
Shale		299' 0"	875' 0"	-706.8	Nov 1 st .
Sandstone		45' 0"	1020' 0"	-751.8	2 nd .
Sandy Shale		12' 0"	1040' 0"	-763.8	3 rd .
Sandstone		42' 0"	1082' 0"	-805.8	4 th .
Shale		1' 0"	1083' 0"	-806.8	
Coal		1' 0"	1084' 0"	-807.8	
Sandstone		10' 0"	1094' 0"	-817.8	5 th .
Shale		3' 0"	1097' 0"	-820.8	
Coal		2' 0"	1099' 0"	-822.8	
Shale		3' 0"	1101' 0"	-824.8	6 th .
Sandstone		84' 0"	1185' 0"	-908.8	7 th .
Shale		3' 0"	1188' 0"	-911.8	
Coal		1' 0"	1189' 0"	-913.3	
Shale		6' 0"	1195' 0"	-919.8	
Coal		2' 0"	1197' 0"	-921.8	
Shale		2' 0"	1201' 0"	-925.8	8 th .
Sandstone		39' 0"	1240' 0"	-963.8	9 th .
Shale		2' 0"	1242' 0"	-965.8	
Sandstone		56' 0"	1298' 0"	-1023.8	10 th .
Sandy Shale		4' 0"	1302' 0"	-1025.8	
Shale		14' 0"	1306' 0"	-1028.8	11 th .
Coal		9'	1300' 0"	-1043.8	
Shale (broken)		5' 3"	1305' 0"	-1048.8	
Shale broken		13' 0"	1326' 0"	-1069.8	12 th .
Sandstone		21' 0"	1339' 0"	-1062.8	13 th .
Coal		6"	1360' 0"	-1083.8	
Shale		7' 6"	1360' 0"	-1084.3	
Sandy Shale		9' 0"	1368' 0"	-1091.8	14 th .
Sandstone		29' 0"	1377' 0"	-1102.8	15 th .
Shale		3' 0"	1401' 0"	-1123.8	16 th .
Coal (hard)		1' 0"	1402' 0"	-1124.8	
Coal		1' 0"	1403' 0"	-1125.8	
Shale		1' 0"	1404' 0"	-1126.8	
Coal		1' 0"	1405' 0"	-1127.8	17 th .
Sandy Shale		18' 0"	1423' 0"	-1145.8	18 th .
Shale (brown)		22' 0"	1445' 0"	-1167.8	19 th .
Coal (hard)		1' 6"	1446' 0"	-1168.8	
Coal (hard)		3' 0"	1449' 0"	-1171.8	
Trap		3' 0"	1452' 0"	-1174.8	20 th .
Trap		1' 0"	1453' 0"	-1175.8	

Quality reduced
No. 4 SEAM
Analysis
Moisture 1.06
Volatile Matter 35.10
Fixed Carbon 52.25
Ash 11.60

Shale broken
Sandy shale broken

Shale (hard)
Coal
Shale
Coal

Shale (hard)
Coal
Shale (brown)
Trap

Shale (hard)
Coal
Shale (brown)
Trap

Shale (hard)
Coal
Shale (brown)
Trap

Shale (hard)
Coal
Shale (brown)
Trap

Shale (hard)
Coal
Shale (brown)
Trap

Shale (hard)
Coal
Shale (brown)
Trap

Shale (hard)
Coal
Shale (brown)
Trap

CANADIAN COLLIERIES (DUNSMUIR) LTD.
BORE HOLE No. 170
COMOX FIELD
 Scale - 1"=20'

CX-170
694
 (L10)

MATERIAL	SECTION	THICKNESS	DEPTH BELOW SURFACE	ELEV. 3900 ABOVE M.S.L. AT UNION BAY	DATE
Gravel & Clay		7'-0"	7'-0"	383.0	
Sand		10'-0"	17'-0"	373.0	
Gravel		71'-0"			
Sand & Boulders		5'-0"	88'-0"	302.0	
Very coarse Gravel		10'-0"	98'-0"	297.0	
Compact Sand & Boulders		5'-0"	103'-0"	287.0	
Gravel		11'-0"	108'-0"	282.0	
Sand & small Boulders		16'-0"	118'-0"	271.0	
			135'-0"	255.0	Nov. 26 1925
					" 27 "
					" 28 "
					" 29 "
					" 30 "
Shale		244'-0"			Dec. 1 "
					" 2 "
					" 3 "
Sandy Shale with bands of Sandstone		2'-0"	379'-0"	110.0	" 4 "
			381'-0"	90.0	" 5 "
					" 6 "
Shale		207'-0"			" 7 "
					" 8 "
					" 9 "
Sandstone		5'-0"	588'-0"	-198.0	" 11 "
Shale		5'-0"	593'-0"	-203.0	
Sandstone		3'-0"	598'-0"	-208.0	
			601'-0"	-211.0	" 12 "
					" 13 "
Shale		120'-0"			" 14 "
					" 15 "
Sandstone		9'-0"	721'-0"	-331.0	" 16 "
Shale		1'-0"	730'-0"	-340.0	
Sandy Shale		4'-0"	731'-0"	-341.0	
Sandstone		15'-0"	735'-0"	-345.0	
Shale		6'-0"	750'-0"	-360.0	
			756'-0"	-366.0	" 17 "
Sandstone		33'-4"			
Shale		4"	789'-4"	-389.3	
Coal		8"	789'-8"	-389.7	
Shale		11"	791'-1"	-401.1	" 18 "
Coal		2"	792'-2"	-402.2	
Shale		1'-6"	792'-8"	-402.8	
Coal			794'-3"	-404.3	
					" 19 "
Sandstone (grey, med. grain)		90'-9"			" 20 "
					" 21 "
Brown Shale & Coal		1'-0"	885'-0"	-495.0	
Shale, greyish brown, clayey		11'-0"	886'-0"	-496.0	
Coal		4"	897'-0"	-507.0	
Sandstone		3"	897'-4"	-507.3	
Coal		5"	897'-7"	-507.6	" 22 "
Coal			898'-0"	-508.0	
					Jan. 2, 23
Sandstone (grey, coarse grain)		35'-0"			" 3 "
Shale (brown, clayey)		7'-4"	933'-0"	-543.0	
Coal		1'-0"	940'-4"	-550.3	" 4 "
Coal & Shale		1'-0"	942'-0"	-552.0	
Shale (brown, clayey)		20'-0"			" 5 "
			962'-0"	-572.0	
Shale (very hard)		13'-0"			" 6 "
			975'-0"	-585.0	
					" 7 "
Sandstone (grey, med. grain)		73'-0"			" 8 "
			1048'-0"	-658.0	
Shale (dark brown with Coal markings)		16'-0"			" 9 "
Coal & Shale		1'-0"	1064'-0"	-684.0	
Shale (brown, clayey)		6'-0"	1065'-0"	-685.0	
			1071'-0"	-691.0	" 10 "
Sandstone (hard med. grain)		31'-0"			
Shale (dark brown)		6'-0"	1108'-0"	-728.0	" 11 "
Coal & Shale		1'-0"	1109'-0"	-729.0	
Sandy Shale		11'-0"	1110'-0"	-730.0	
Shale (dark)		6'-6"	1121'-0"	-741.0	" 12 "
Coal		1'-0"	1127'-6"	-747.5	
Coal & Coal		9"	1128'-9"	-748.5	" 13 "
Shale (dark brown)		9'-0"	1129'-0"	-749.0	
Coal		1'-0"	1130'-0"	-750.0	
Shale		6'-0"	1131'-0"	-750.0	
Coal		3'-2"	1145'-0"	-765.0	" 14 "
Coal		3'-0"	1148'-2"	-768.2	
Shale & Coal markings		3'-0"	1151'-2"	-771.2	
Shale (dark brown)		8'-0"			" 15 "
			1159'-8"	-779.2	
Sandstone		10'-0"			" 16 "
			1169'-2"	-789.2	
Coal		4'-0"	1173'-2"	-793.2	" 17 "
Shale		1'-0"	1174'-2"	-794.2	
Shale		9'-0"			" 18 "
			1183'-2"	-803.2	
Sandstone		15'-0"			" 19 "
			1198'-2"	-818.2	
Coal		2"	1198'-4"	-818.3	
Shale		17'-0"			" 20 "
			1215'-4"	-835.3	
Sandstone		8'-0"			" 21 "
			1223'-4"	-843.3	
Shale with Coal markings		8'-0"			" 22 "
Coal & Shale		8"	1231'-4"	-851.3	
Shale with Coal markings		14'-0"	1232'-0"	-852.0	
					" 23 "
			1246'-0"	-866.0	
					" 24 "
Sandstone with bands of Shale		47'-0"			" 25 "
			1293'-0"	-913.0	
Sandy Shale		14'-0"			" 26 "
			1307'-0"	-927.0	
Sandstone with Coal markings		5'-0"			" 27 "
			1312'-0"	-932.0	
Sandy Shale		11'-0"			" 28 "
			1323'-0"	-943.0	
Agglomerate		21'-0"			" 29 "
			1344'-0"	-964.0	
Trap		5'-0"			" 30 "
			1349'-0"	-969.0	

FARM SEAM
 Analysis
 Moisture 1.00
 Volatile Matter 35.50
 Fixed Carbon 13.20
 Ash 100.00

WELWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

694
62.
(70) (1)

BOREHOLE NO. - Anderson Lake #1 *AL-1*
LOCATION - Anderson Lake Area
ELEVATION - 1320
DATE - June 1975

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Sandstone	0	48
Siltstone	48	52
Sandstone	52	145
Coal	145	145.5
Black Shale - coal traces	145.5	150
Sandstone	150	236
Carbonaceous Shale	236	237
Coal	237	237.5
Carbonaceous Shale	237.5	242
Coal	242	242.5
Carbonaceous Shale with Pyrites	242.5	245
Coal with Pyrites	245	245.5
Carbonaceous Shale	245.5	256
Grey Siltstone	256	275
Carbonaceous Shale	275	281
Soft Sandstone	281	305
Carbonaceous Shale	305	314
Siltstone	314	353
Carbonaceous Shale	353	355
Siltstone	355	364
Sandstone	364	370
Siltstone	370	381
Sandstone	381	422
Carbonaceous Shale	422	426
Siltstone	426	428
Carbonaceous Shale	428	430
Siltstone	430	439
Carbonaceous Shale	439	444
Siltstone	444	445
Carbonaceous Shale	445	451
Hard Sandstone	451	478
Soft Sandstone	478	479.5
Carbonaceous Shale	479.5	484
Sandstone	484	550
Carbonaceous Shale	550	557

cont'd ...

49d

63.

Borehole No. 1-Anderson Lake

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Silty Shale	557	565
Carbonaceous Shale	565	575
Siltstone	575	606
Carbonaceous Shale	606	618
Siltstone	618	626
Sandstone	626	641
Carbonaceous Shale	641	655
Hard Sandstone - white	655	680
Brown Sandstone	680	735
Siltstone	735	784
Carbonaceous Shale - coal lenses	784	798
Silty Shale	798	800
Carbonaceous Shale - coal stringers	800	801
Carbonaceous Shale	801	807
Siltstone	807	818
Sandstone	818	830

WELDWOOD OF CANADA LIMITED

64.

(1)

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Anderson Lake #2 **AL-2**
 LOCATION - Anderson Lake Area
 ELEVATION - 1440
 DATE - June 1975

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Weathered Siltstone	0	4
Coal	4	8.5
Grey Shale	8.5	11
Coal	11	15.5
Grey Shale	15.5	20.3
Siltstone	20.3	23.5
Sandstone	23.5	45.5
Coal	45.5	46.5
Carbonaceous Shale	46.5	47
Coal	47	47.5
Grey Shale	47.5	48
Siltstone	48	52
Carbonaceous Shale	52	53.5
Siltstone	53.5	60
Carbonaceous Shale	60	71
Sandstone	71	89
Siltstone	89	92
Sandstone	92	98
Siltstone	98	106
Carbonaceous Shale	106	116
Sandstone	116	127
Carbonaceous Shale	127	129
Sandstone	129	150
Carbonaceous Shale	150	154
Sandstone	154	171
Siltstone	171	179
Silty Shale	179	188
Siltstone	188	191
Carbonaceous Shale	191	193
Sandstone	193	196
Silty Shale	196	203
Sandstone	203	207

cont'd ...

65.

Borehole No. 2 - Anderson Lake

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Carbonaceous Shale	207	209
Siltstone	209	216
Carbonaceous Shale	216	221
Sandstone	221	255
Siltstone	255	263
Sandstone	263	269
Siltstone	269	277
Sandstone	277	347
Siltstone	347	355
Silty Shale	355	359
Sandstone	359	375
Basalt	375	400

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Anderson Lake #3 **AL-3**
 LOCATION - Anderson Lake Area
 ELEVATION - 1410
 DATE - July 1975

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Sandstone	0	37
Grey Shale	37	46
Carbonaceous Shale & Coal Trace	46	48
Silty Shale	48	50
Siltstone	50	54
Carbonaceous Shale	54	64
Carbonaceous Shale & Coal Trace	64	69
Shale	69	70
Siltstone	70	86
Carbonaceous Shale & Coal Trace	86	87
Coal	87	88
Silty Shale	88	90
Carbonaceous Shale	90	91
Siltstone	91	104
Sandstone	104	108
Sandstone Grey	108	109
Carbonaceous Shale	109	109.7
Sandstone Dark Grey	109.7	112.6
Coal	112.6	115.2
Shale Black	115.2	116
Sandstone Grey	116	118
Shale with Coal Stringer	118	120.2
Sandstone Dark Grey	120.2	127.9
Carbonaceous Shale with Coal Stringer	127.9	133.2
Coal	133.2	133.8
Shale	133.8	134.2
Sandstone Grey Fine	134.2	147.5
Soft Grey Shale	147.5	149
Black Shale	149	151
Conglomerate	151	153
Dark Grey Sandstone	153	156
Sandstone Salt & Pepper	156	176
Black Siltstone	176	181
Dark Grey Sandstone	181	186.5
Shale with Coal Stringer	186.5	189
Shale Soft Dark Grey	189	191

cont'd ...

67.

Borehole No. 3 - Anderson Lake

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Grey Siltstone	191	194
Grey Sandstone	194	211
Black Siltstone	211	220.8
Coal	220.8	224.5
Carbonaceous Shale	224.5	230
Black Siltstone	230	231
Dark Grey Sandstone	231	243
Salt & Pepper Sandstone	243	252
Sandstone	253	266
Siltstone	266	269
Sandstone	269	293
Siltstone	293	299
Sandstone	299	300
Siltstone	300	304
Carbonaceous Shale	307	325
Sandstone	325	350
Sandstone Salt & Pepper	350	355
Sandstone	355	357
Hard Siltstone	357	360
Basalt		

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Anderson Lake #4 **AL-4**
 LOCATION - Anderson Lake Area
 ELEVATION - 1515
 DATE - July 1975

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Sandstone	0	51
Carbonaceous Shale	51	53.2
Coal	53.2	54.8
Carbonaceous Shale	54.8	61
Grey Shale	61	67.5
Coal	67.5	71.5
Shale	71.5	72
Coal	72	75
Shale	75	79
Sandstone	79	103.5
Coal	103.5	104.5
Shale	104.5	109
Sandstone	109	314
Siltstone	314	319
Sandstone	319	325
Siltstone	325	338
Shale	338	341
Siltstone	341	344.2
Carbonaceous Shale	344.2	356
Sandstone	356	374.2
Coal	374.2	374.9
Shale	374.9	375.3
Coal	375.3	380.2
Shale	380.2	383
Siltstone	383	388
Shale	388	399.2
Coal	399.2	403.2
Shale	403.2	424
Sandstone	424	433
Basalt	433	448

WELWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Anderson Lake #5
 LOCATION - Anderson Lake Area
 ELEVATION - 1490
 DATE - July 1975

AL-5

<u>Type of Cuttings</u>	FEET	
	FROM	TO
Sandstone	0	7
Hard Sandstone	7	29
Carbonaceous Shale	29	33.5
Coal	33.5	35.5
Carbonaceous Shale	35.5	37
Grey Shale	37	38
Siltstone	38	39
Sandstone	39	45
Carbonaceous Shale	45	46
Grey Shale	46	47
Siltstone	47	48
Carbonaceous Shale	48	49
Grey Shale	49	50
Carbonaceous Shale & Coal Trace	50	51
Grey Shale	51	51.5
Carbonaceous Shale	51.5	52
Carbonaceous Shale & Coal Trace	52	53
Sandstone	53	56
Siltstone	56	58
Grey Shale	58	68
Carbonaceous Shale	68	72
Grey Shale	72	73
Carbonaceous Shale	73	75.5
Coal	75.5	76
Carbonaceous Shale & Coal Trace	76	78
Sandstone	78	82
Sandstone Hard Grey	80	167
Sandstone with Shale	167	169
Carbonaceous Shale with Coal Stringers	169	176
Siltstone Dark Grey	176	179.6
Coal	179.6	180.2
Shale with Coal Stringers	180.2	184
Coal	184	185
Shale	185	186
Sandstone Grey	186	198

cont'd ...

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Sandstone	198	220
Carbonaceous Shale	220	221
Grey Shale	221	223
Siltstone	223	224
Sandstone	224	245
Carbonaceous Shale & Coal Trace	245	246
Sandstone	246	262
Carbonaceous Shale	262	263
Coal & Carbonaceous Shale	263	264
Carbonaceous Shale	264	269
Siltstone	269	278
Carbonaceous Shale	278	282
Siltstone	282	283
Sandstone	283	313
Siltstone	313	314
Carbonaceous Shale	314	316
Sandstone	316	317
Carbonaceous Shale	317	319
Silty Shale	319	320
Carbonaceous Shale	320	322
Siltstone	322	326
Carbonaceous Shale	326	328
Silty Shale	328	330
Coal	330	332
Siltstone	332	335
Sandstone	335	336
Carbonaceous Shale	336	340
Carbonaceous Shale	340	343
Dark Grey Sandstone	343	346
Black Shale	346	349
Siltstone	349	353
Sandstone	353	371.4
Carbonaceous Shale with Coal Stringers	371.4	378
Siltstone	378	380
Dark Grey Sandstone	380	383
Grey Shale	383	386
Sandstone	386	400
Grey Shale	400	402
Soft Black Shale	402	404.5
Siltstone	404.5	419.3
Quartz	419.3	421
Sandstone White	421	429
Soft Grey Shale	429	431
Sandstone	431	442
Quartz	442	453
Sandstone White with Quartz	453	460
Sandstone & Quartz	460	462

cont'd ...

71.

Borehole No. 5 - Anderson Lake

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Siltstone	462	464
Sandstone	464	467
Hard Sandstone & Quartz	467	470
Siltstone	470	486
Sandstone	486	517
Sandstone Grey	519	525
Carbonaceous Shale	525	526
Siltstone	526	527.5
Carbonaceous Shale with Coal	527.5	529.5
Sandstone Fine Grey	529.5	536
Hard Black Sandstone	536	540
Basalt	540	547

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Anderson Lake #6 **AL-6**
 LOCATION - Anderson Lake Area
 ELEVATION - 1620
 DATE - July 1975

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Gravel & Boulders	0	6
Frac. Shale	6	9
Sandstone	9	10.5
Carbonaceous Shale	10.5	11.5
Coal	11.5	13.5
Brown Shale	13.5	15
Shaley Coal	15	15.6
Grey Shale	15.6	17
Sandstone	17	26.2
Shale with Coal	26.2	27
Sandstone	27	33
Siltstone	33	35
Carbonaceous Shale	35	36
Coal	36	37.5
Carbonaceous Shale	37.5	42
Grey Shale	42	43
Carbonaceous Shale & Coal Trace	43	44
Grey Shale	44	45
Carbonaceous Shale	45	47
Grey Shale	47	48
Sandstone	48	51
Grey Shale	51	53
Siltstone	53	54
Grey Shale	54	55
Sandstone	55	60
Carbonaceous Shale	60	63
Siltstone	63	66
Grey Shale	66	69
Carbonaceous Shale & Coal Trace	69	70
Grey Shale	70	71
Carbonaceous Shale	71	72
Siltstone	72	73
Sandstone	73	116
Siltstone	116	148
Carbonaceous Shale	148	160

cont'd ...

73.

Borehole No. 6 - Anderson Lake

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Black Siltstone	162	169
Carbonaceous Shale Brown-Black	169	171
Dark Grey Sandstone Coarse	171	190
Black Siltstone	190	191.5
Sandstone	191.5	218
Conglomerate Basalt	218	219
Grey Sandstone	219	221
Soft Grey Shale	221	22.5
Conglomerate	22.5	226
Sandstone	226	308
Hard Sandstone	308	323
Sandstone Conglomerate	323	359
Basalt	359	372

WELWOOD OF CANADA LIMITED

74.

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Anderson Lake #7 AL-7
 LOCATION - Anderson Lake Area
 ELEVATION - 1495
 DATE - July 1975

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Sandstone	0	53
Carbonaceous Shale	53	56
Siltstone	56	57
Grey Shale	57	58
Sandstone	58	129
Carbonaceous Shale	129	135
Coal	135	135.5
Carbonaceous Shale	135.5	139
Coal	139	141
Carbonaceous Shale	141	146
Siltstone	146	148
Carbonaceous Shale	148	149
Coal	149	150
Carbonaceous Shale	150	151
Sandstone	151	189

75.

WELDWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Anderson Lake #9
LOCATION - Anderson Lake Area
ELEVATION - 850
DATE - August 1975

AL-9

<u>Type of Cuttings</u>	<u>FEET</u>	
	<u>FROM</u>	<u>TO</u>
Gravel and Clay	0	61
Sandstone	61	76
Carbonaceous Shale	76	90
Basalt	90	117

WELDWOOD OF CANADA LIMITED

76.

VANCOUVER ISLAND
RESOURCE STUDY

BOREHOLE NO. - Anderson Lake #10 **AL-10**
LOCATION - Anderson Lake Area
ELEVATION - 955
DATE - August 1975

<u>Type of Cuttings</u>	FEET	
	<u>FROM</u>	<u>TO</u>
Gravel and Boulders	0	41
Basalt	41	50

77.

WELDWOOD OF CANADA LIMITED

VANCOUVER ISLAND
RESOURCE STUDY

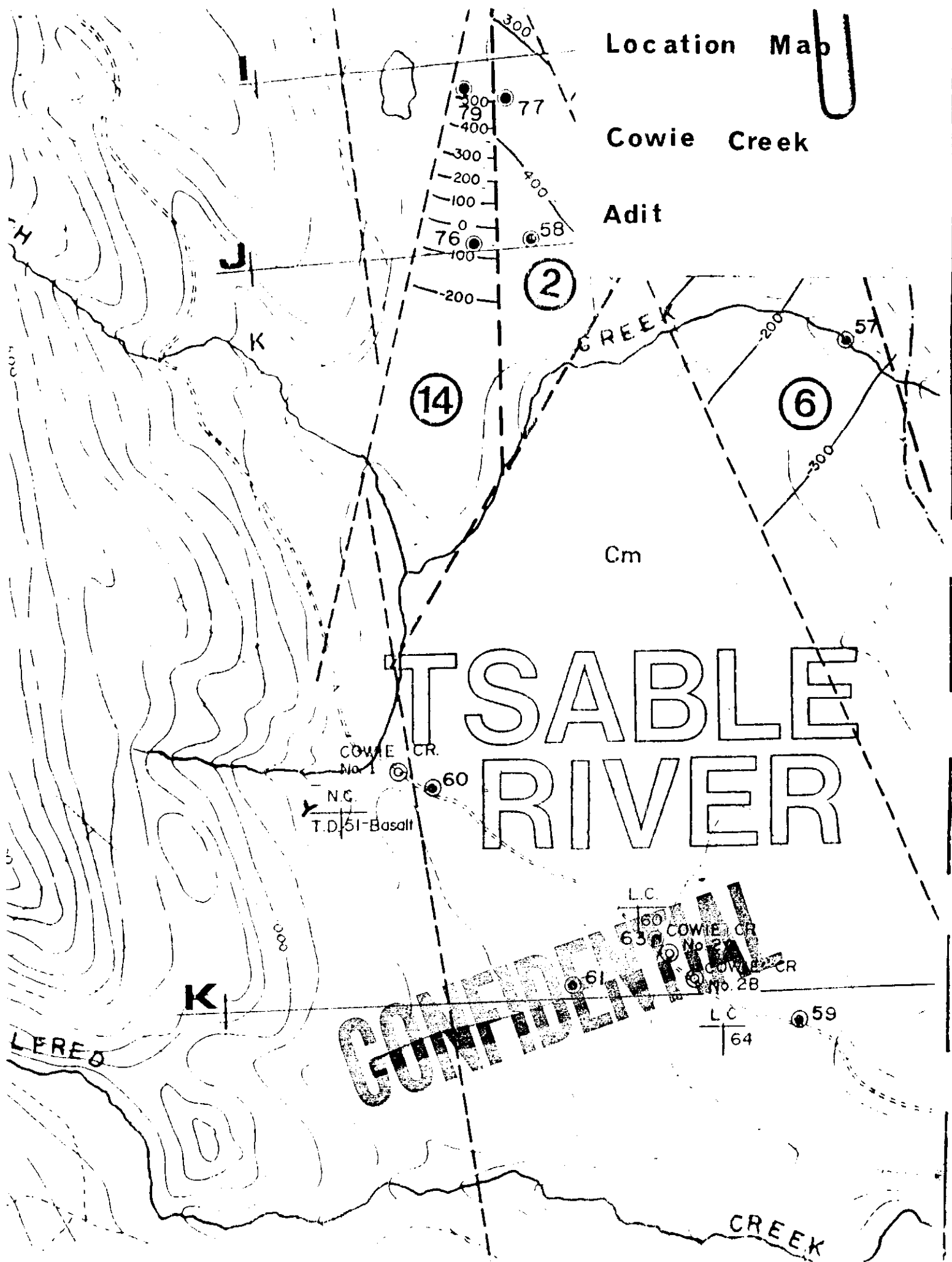
BOREHOLE NO. - Anderson Lake #11 *AL-11*
LOCATION - Anderson Lake Area
ELEVATION - 829
DATE - August 1975

<u>Type of Cuttings</u>	FEET	
	<u>FROM</u>	<u>TO</u>
Sand and Gravel	0	42
Basalt	42	52

Location Map

Cowie Creek

Adit



CONFIDENTIAL

SAMPLE: Cowie Creek Channel Sample

CCA

LAB. NO. 7265

SIZE AND RAW ANALYSES										
SIZE FRAC.	WT. %	ASH%	R.M. %	V.M. %	F.C. %	S. %	F.S.I.	CUMULATIVE		
								WT. %	ASH%	S. %
+3/4"	37.4	-	-	-	-	-	-	-	-	-
3/4" X 28M	89.3	45.1	1.0	24.8	29.1	1.07	3 1/2	89.3	45.1	1.07
28M X 100M	7.8	28.2	0.9	28.5	42.4	1.48	8	97.1	43.7	1.10
100M X 0	2.9	31.3	0.8	28.2	39.7	1.97	7 1/2	100.0	43.4	1.13
HEAD RAW	100.0	43.8	1.0	25.1	30.1	1.12	4	Gross Head Sample % ADM = 7.0%		

REMARKS: +3/4" Size Fraction: Crushed down to and combined with -3/4".

FROTH FLOTATION: 100M X 0					4:1=Ker: MIBC, 0.48 lb/T 10% P.D. 1 min. conditioning		
PRODUCT	WT. %	ASH %	F.S.I.	S. %	CUMULATIVE		
					WT. %	ASH %	S. %
STAGE I	27.9	11.9	9		27.9	11.9	
STAGE II	14.6	15.5	8 1/2		42.5	13.1	
TAILS	57.5	44.9	2 1/2		100.0	31.4	

WELWOOD OF CANADA LIMITED

April 1, 1976.

SAMPLE: Cowie Creek Channel Sample

LAB. NO.: 7265

SINK - FLOAT ANALYSES							
3/4" X 28M							
S.G.	WT. %	ASH %	F.S.I.	S. %	CUMULATIVE		
					WT. %	ASH %	S%
-1.30	9.2	4.5	9		9.2	4.5	
1.30-1.35	6.9	10.8	8 1/2		16.1	7.2	
1.35-1.40	5.9	16.4	8		22.0	9.7	
1.40-1.45	5.5	21.5	6 1/2		27.5	12.0	
1.45-1.50	4.4	26.7	5 1/2		31.9	14.1	
1.50-1.60	10.1	34.1	4 1/2		42.0	18.9	
1.60-1.70	9.0	40.5	4		51.0	22.7	
1.70-1.80	6.0	48.3	2		57.0	25.4	
1.80-1.90	5.3	55.0	1 1/2		62.3	27.9	
+1.90	37.7	74.0	N.A.		100.0	45.3	

Birtley Engineering

Subsidiary of Great West Steel Industries

WELDWOOD OF CANADA LIMITED

April 1, 1976.

SAMPLE: Cowie Creek Channel Sample

LAB. NO.: 7265

SINK - FLOAT ANALYSES							
28M X 100M							
S.G.	WT. %	ASH %	F.S.I.	S. %	CUMULATIVE		
					WT. %	ASH %	S. %
-1.30	33.0	4.6	9		33.0	4.6	
1.30-1.35	15.7	8.9	8 1/2		48.7	6.0	
1.35-1.40	7.4	14.5	8		56.1	7.1	
1.40-1.45	4.0	20.5	6 1/2		60.1	8.0	
1.45-1.50	3.2	24.1	6		63.3	8.8	
1.50-1.60	5.2	30.9	4		68.5	10.5	
1.60-1.70	4.6	39.4	2		73.1	12.3	
1.70-1.80	4.0	47.9	1		77.1	14.2	
1.80-1.90	2.8	53.9	1		79.9	15.5	
+1.90	20.1	72.0	1/2		100.0	26.9	

Birtley Engineering

Subsidiary of Great West Steel Industries

SAMPLE: Cowie Creek Channel Sample

LAB. NO. 7265

SIZE AND RAW ANALYSES										
SIZE FRAC.	WT. %	ASH %	R.M. %	V.M. %	F.C. %	S. %	F.S.I.	CUMULATIVE		
								WT. %	ASH %	S. %
+3/4"	37.4	-	-	-	-	-	-	-	-	-
3/4" X 28M	89.3	45.1	1.0	24.8	29.1	1.07	3 1/2	89.3	45.1	1.07
28M X 100M	7.8	28.2	0.9	28.5	42.4	1.48	8	97.1	43.7	1.10
100M X 0	2.9	31.3	0.8	28.2	39.7	1.97	7 1/2	100.0	43.4	1.13
HEAD RAW	100.0	43.8	1.0	25.1	30.1	1.12	4	Gross Head Sample % ADM= 7.0%		

REMARKS: +3/4" Size Fraction: Crushed down to and combined with -3/4".

FROTH FLOTATION: 100M X 0								4:1=Ker: MIBC, 0.48 lb/T 10% P.D. 1 min. conditioning		
PRODUCT	WT. %	ASH %	F.S.I.	S. %	CUMULATIVE					
					WT. %	ASH %	S. %			
STAGE I	27.9	11.9	9		27.9	11.9				
STAGE II	14.6	15.5	8 1/2		42.5	13.1				
TAILS	57.5	44.9	2 1/2		100.0	31.4				

WELDWOOD OF CANADA LIMITED

April 1, 1976.

SAMPLE: Cowie Creek Channel Sample

LAB. NO.: 7265

SINK - FLOAT ANALYSES							
3/4" X 28M							
S.G.	WT. %	ASH %	F.S.I.	S. %	CUMULATIVE		
					WT. %	ASH %	S%
-1.30	9.2	4.5	9		9.2	4.5	
1.30-1.35	6.9	10.8	8 1/2		16.1	7.2	
1.35-1.40	5.9	16.4	8		22.0	9.7	
1.40-1.45	5.5	21.5	6 1/2		27.5	12.0	
1.45-1.50	4.4	26.7	5 1/2		31.9	14.1	
1.50-1.60	10.1	34.1	4 1/2		42.0	18.9	
1.60-1.70	9.0	40.5	4		51.0	22.7	
1.70-1.80	6.0	48.3	2		57.0	25.4	
1.80-1.90	5.3	55.0	1 1/2		62.3	27.9	
+1.90	37.7	74.0	N.A.		100.0	45.3	

WELDWOOD OF CANADA LIMITED

April 1, 1976.

SAMPLE: Gowie Creek Channel Sample

LAB. NO.: 7265

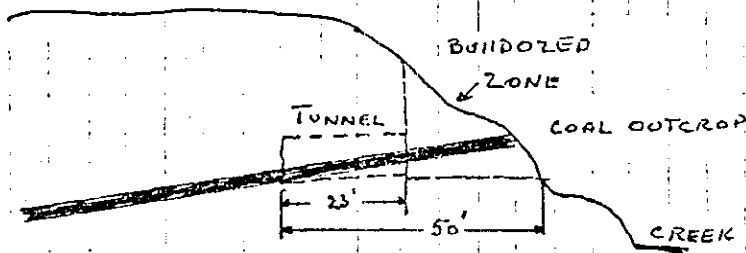
SINK - FLOAT ANALYSES							
28M X 100M							
S.G.	WT. %	ASH %	F.S.I.	S. %	CUMULATIVE		
					WT. %	ASH %	S. %
-1.30	33.0	4.6	9		33.0	4.6	
1.30-1.35	15.7	8.9	8 1/2		48.7	6.0	
1.35-1.40	7.4	14.5	8		56.1	7.1	
1.40-1.45	4.0	20.5	6 1/2		60.1	8.0	
1.45-1.50	3.2	24.1	6		63.3	8.8	
1.50-1.60	5.2	30.9	4		68.5	10.5	
1.60-1.70	4.6	39.4	2		73.1	12.3	
1.70-1.80	4.0	47.9	1		77.1	14.2	
1.80-1.90	2.8	53.9	1		79.9	15.5	
+1.90	20.1	72.0	1/2		100.0	26.9	

Birtley Engineering

Subsidiary of Great West Steel Industries

COWIE CREEK #1

EXPLORATION TUNNEL



COAL OXIDIZED
DUE TO FAULTING.

TOTAL SECTION	103"
COAL	81"
PARTINGS & BONE	22"



5" BONY SHALE

8" COAL

3" BONY COAL

26" COAL

5" SHALE (MEDIUM HARD)

11" COAL

9" SHALE (HARD)

36" COAL

FLOOR CONFIGURATION

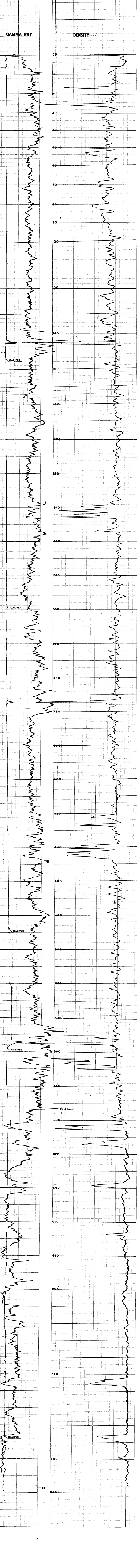
ENTRANCE to 10' - 20°
10 FEET to 14' - 35°
14 FEET to 23' - 20°

SHALE
SOFT

MARCH 1976
MIKE CURCIO

PROVINCE _____ FIELD _____ COMPANY _____	WELL <u>694</u> WELL NO. <u>11</u> DATE <u>11/11/57</u>	COMPANY <u>WELD WOOD OF CANADA LTD.</u>
PROVINCE <u>ALBERTA</u> FIELD <u>ANDERSON</u> LOCATION <u>SE 1/4 Sec. 14, T. 14N, R. 10W</u>	Log Measured From: <u>0.1</u> to <u>3.0</u> ft. Above True Depth Log Measured From: <u>0.1</u> to <u>3.0</u> ft. Above True Depth Log Measured From: <u>0.1</u> to <u>3.0</u> ft. Above True Depth	Other Services _____
Date _____ Run No. _____ First Reading _____ Last Reading _____ Depth Started _____ Depth Finished _____ Bottom Depth _____	Log No. <u>1025</u> Log No. <u>1025</u> Log No. <u>1025</u>	Log No. _____ Log No. _____ Log No. _____

GAMMA RAY API UNITS Sem. 7.0 T.C. 2 Zero div. to left	DEPTHS 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820	BULK DENSITY $\rho_b - \text{gm/cc}$ SEA 2.0 T.C. 1 1.50 1.75 2.0 2.75
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PROVINCE _____
 FIELD _____
 WELL _____
 COMPANY _____

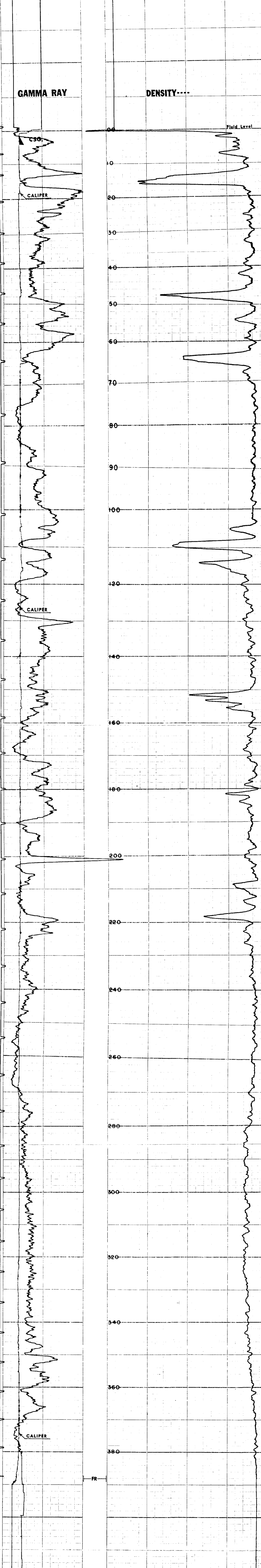
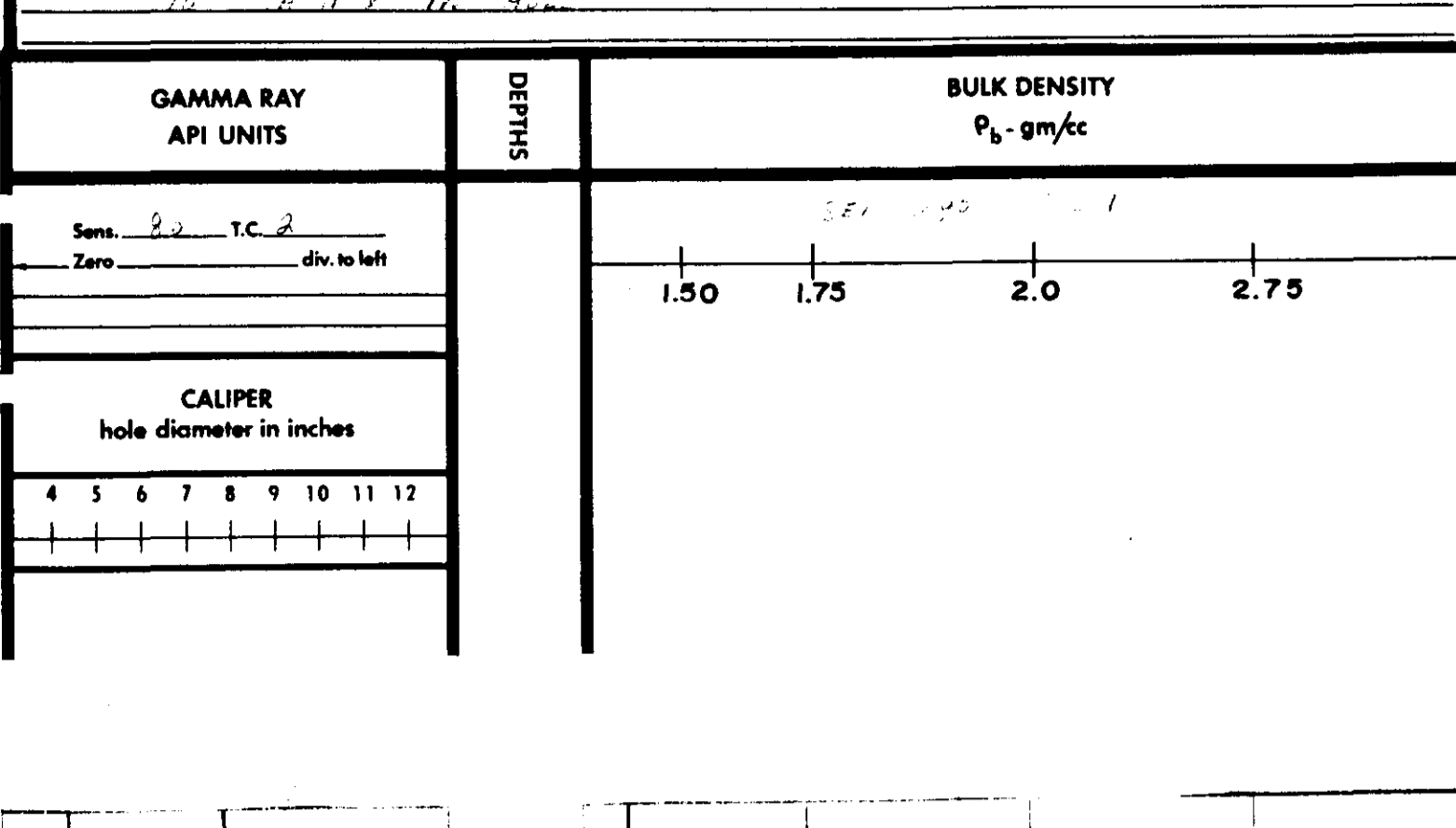
COMPANY WELLSERVICES
 WELL AL-2
 FIELD ANDERSON
 PROVINCE Alaska
 LOCATION Central

Log Measured From 0.0 Elev. 1000
 Log Measured From 0.0 Elev. 1000
 Log Measured From 0.0 Elev. 1000

Date _____
 Run No. _____
 First Reading _____
 Last Reading _____
 Feet Measured _____
 Depth Reached _____
 Bottom Driller _____

Cpg _____
 Mud Nature _____
 Dens _____
 Mud pH _____
 Water Loss _____
 Bit Size _____
 Source to Detector _____
 Spacing _____
 Equipment Type _____
 Core Rig Time _____
 Tool No. _____
 Recorded By _____
 Witness _____

694



ROKE

GAMMA RAY NEUTRON LOG

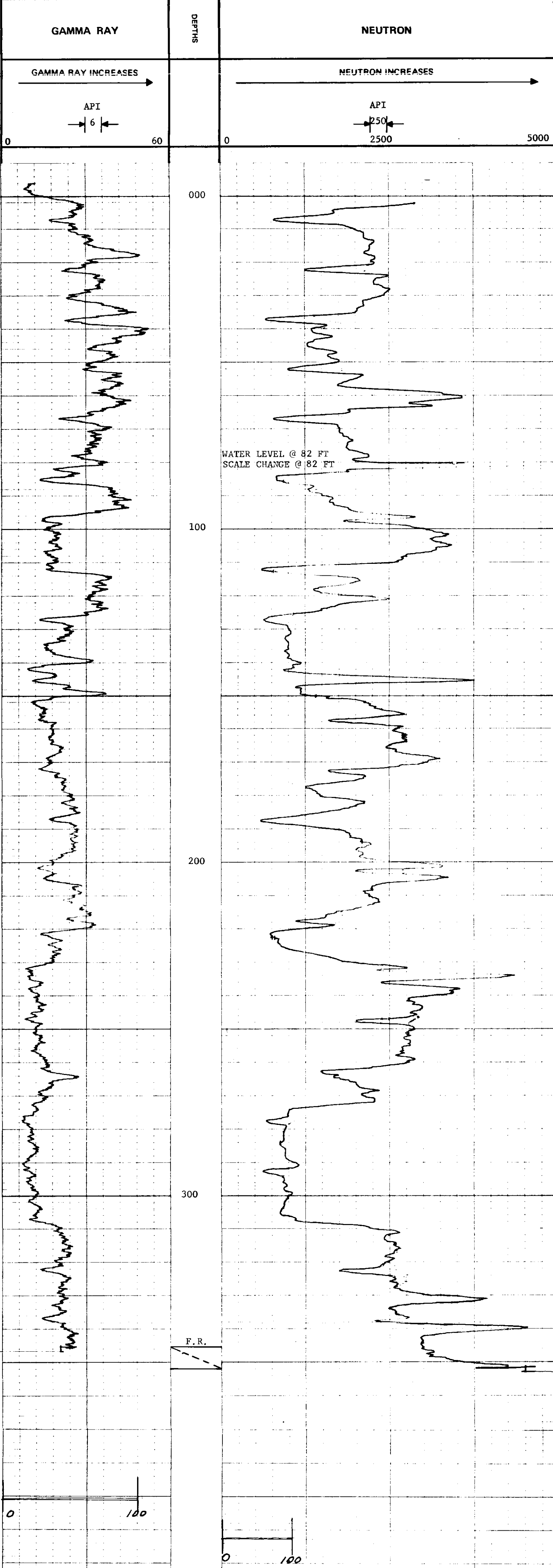
OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	WELWOOD OF CANADA LTD
LSD	WELL	ANDERSON LENS # 3
SEC	LOCATION	23 694
TMP	FIELD	COURTNEY
RGE	PROVINCE	BRITISH COLUMBIA
W	PERMANENT DATUM	GROUND LEVEL
M	Log Measured from	GROUND LEVEL
	Well Depths Measured from	GROUND LEVEL
	Elev.	1410
	Ft. Above Perm. Datum	1410
	K.B.	
	CSG	1410
	G.L.	
	Other Services:	
Run No.	ONE	
Date	26 JULY 1975	
First Reading	352	
Last Reading	00	
Footage Logged	352	
Depth Reached	353	
Depth Driller		
Casing Role		
Casing Driller		
Fluid Type	WATER	
Liquid Level	82	
Min. Diam.	4-3/4	
Rm @ 9'		
Operating Time	2 HOURS	
Truck No.	30	
Recorded By	SIM	Witnessed By
		GREEN

EQUIPMENT DATA			
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	1 1/2	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	1 1/2
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	4 INCH	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	7.55 FT.	LENGTH	6 INCH
		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	265
HOIST TRUCK NO.	30	SPACING	17 INCH
INSTRUMENT TRUCK NO.		TYPE	AmBe
TOOL SERIAL NO.	RGRN 125-001	STRENGTH	3 CURIES

LOGGING DATA											
GENERAL			GAMMA RAY				NEUTRON				
RUN NO.	DEPTHS		SPEED FT/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API G. R. UNITS PER LOG DIV.	T. C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API N. UNITS PER LOG DIV.
	FROM	TO									
1	00	82	12	5	100	0L	6 API	3	500	0L	250 API
	82	352	12	5	100	0L	6 API	3	100	0L	50 API

REMARKS LOGGED THROUGH DOUBLE WALL DRILL STEM



ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO. COMPANY WELWOOD OF CANADA LTD

WELL ANDERSON LAKE # 4

LOCATION

FIELD COURTESY

PROVINCE BRITISH COLUMBIA

PERMANENT DATUM GROUND LEVEL

LOG MEASURED FROM CASING

WELL DEPTH MEASURED FROM

DATE 23 JULY 1975

FIRST READING 447

LAST READING 00

FOOTAGE LOGGED 447

DEPTH REACHED 448

DEPTH DRILLER 448

CASING ROPE 12

CASTING DRILLER

FLUID TYPE WATER

LIQUID LEVEL 342

MIN. DIAM. 4-3/4

RIM @ OF

OPERATING TIME 2-1/2 HOURS

TRUCK NO. 30

RECORDED BY STM

WITNESSED BY GREEN

AL-4 (L4)
694

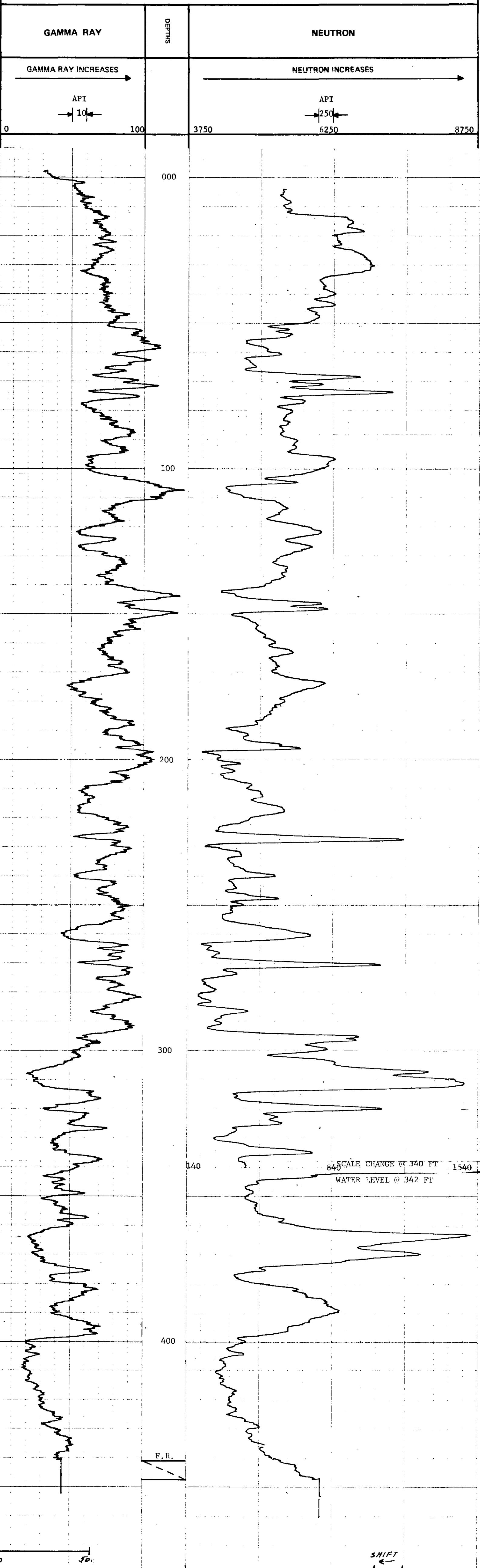
EQUIPMENT DATA

GAMMA RAY				NEUTRON			
RUN NO.	ONE			RUN NO.	ONE		
TOOL MODEL NO.				LOG TYPE	NEUTRON/NEUTRON		
DIAMETER	1-1/4			TOOL MODEL NO.			
DETECTOR MODEL NO.				DIAMETER	1-1/4		
TYPE	SCINTILLATION			DETECTOR MODEL NO.			
LENGTH	4 INCH			TYPE	PROPORTIONAL		
DISTANCE TO N. SOURCE	7.55 FT.			LENGTH	6 INCH		
GENERAL				SOURCE MODEL NO.	MRC-N-SS-W		
HOIST TRUCK NO.	30			SERIAL NO.	265		
INSTRUMENT TRUCK NO.				SPACING			
TOOL SERIAL NO.	RGRN 125-001			TYPE	AmBe		
				STRENGTH	3 CURIES		

LOGGING DATA

RUN NO.	GENERAL				GAMMA RAY				NEUTRON			
	FROM	TO	SPEED FT/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API G. R. UNITS PER LOG DIV.	T. C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API N. UNITS PER LOG DIV.	
1	00	340	12	5	50	0L	10 API	3	1000	15L	250 API	
	340	447	12	5	50	0L	10 API	3	500	2L	70 API	

REMARKS



Scale Change @ 340 FT
Water Level @ 342 FT

SHIFT ←

ROKE

SIDEWALL DENSILOG CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO. COMPANY WEIMOOD OF CANADA LTD

WELL ANDERSON LAKE # 4

LOCATION

FIELD COURTNEY

PROVINCE BRITISH COLUMBIA

Log Measured from GROUND LEVEL Elev. Above Perm. Datum

Well Depths Measured from CASINE 2 Ft. Above Perm. Datum

Run No. ONE

Date 23 JULY 1975

First Reading 445

Last Reading 00

Footage Logged 445

Depth Reached 448

Depth Driller 448

Casing Roke 12

Casing Driller WATER

Fluid Type 342

Liquid Level 4-3/4

Min. Diam.

Operating Time 2-1/2 HOURS

Truck No. 30

Recorded By SITM

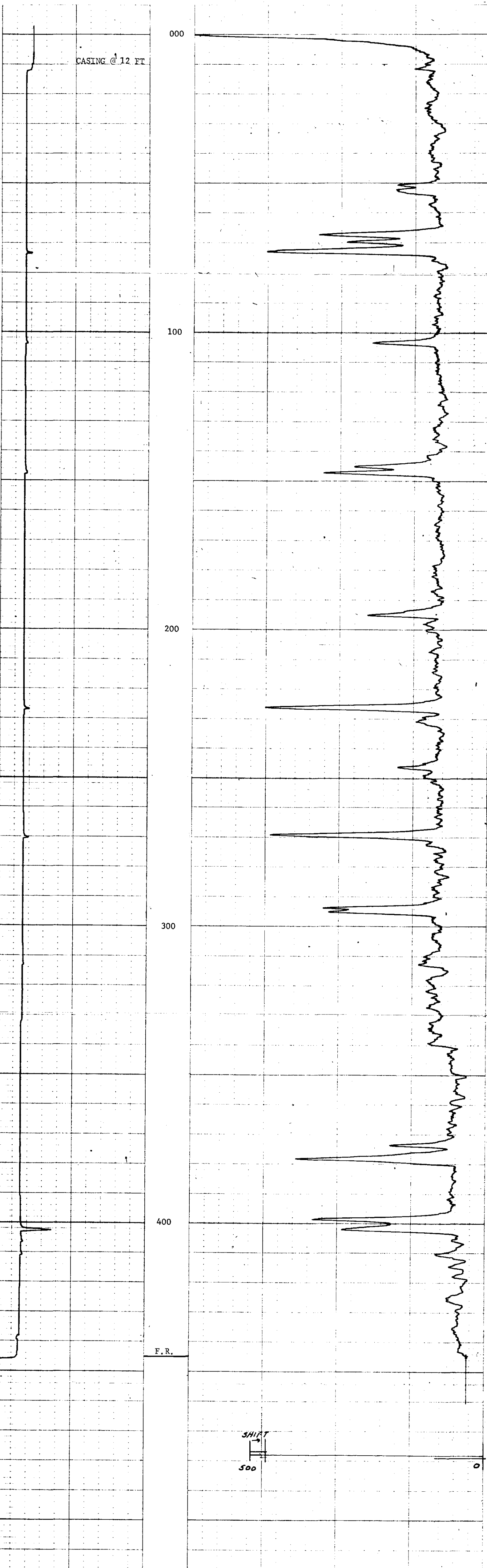
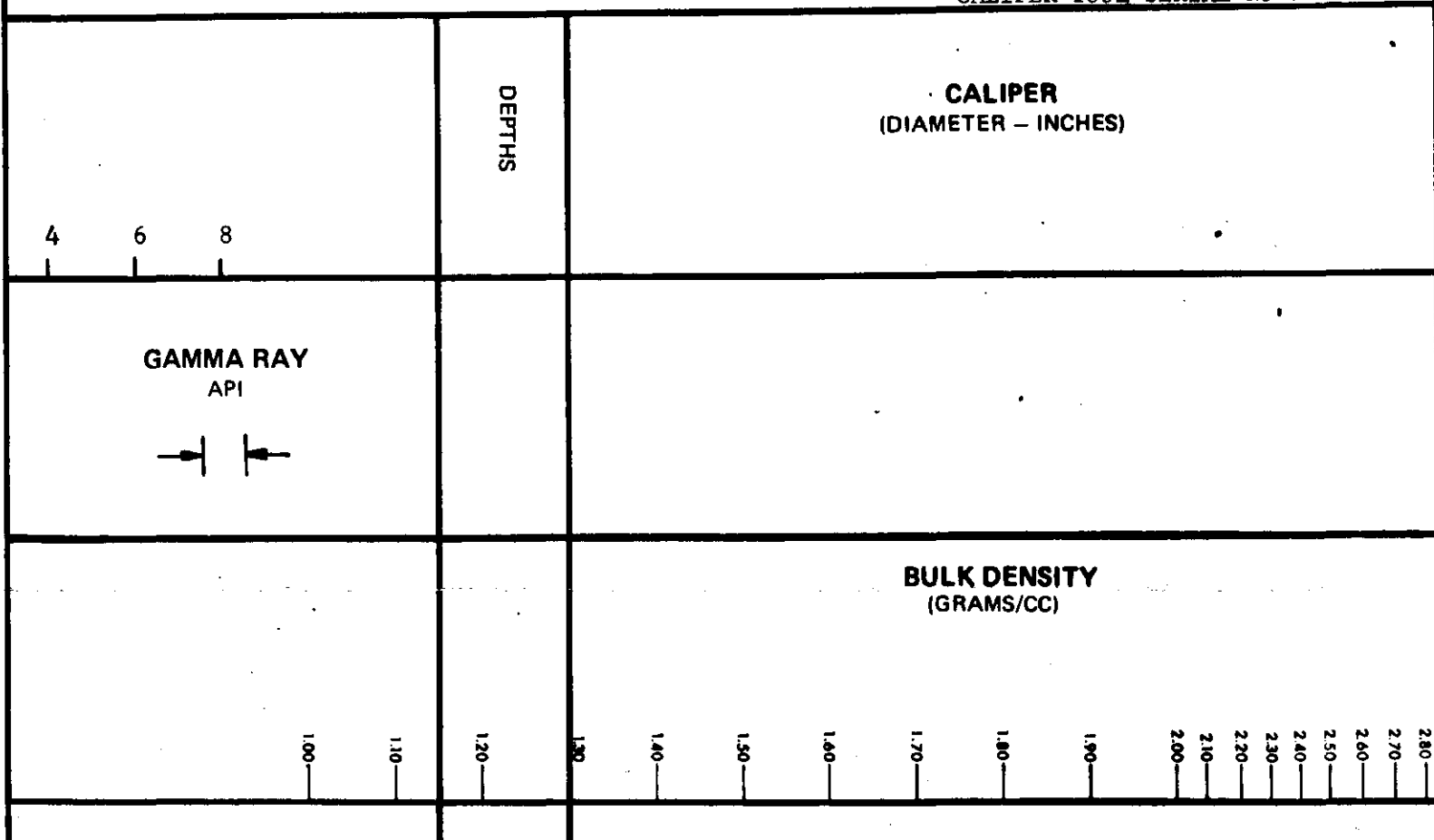
Witnessed By GREEN

AL-415
694

RUN NO.	DEPTHS		SPEED FT/MIN	GAMMA RAY			SIDEWALL DENSILOG			
	FROM	TO		T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API G.R. UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R
1	00	445	10				3	500	1.2R	31.69
1	00	446	30			CALIPER				

REMARKS

DENSITY TOOL SERIAL NO 241
CALIPER TOOL SERIAL NO 785



ROKE

SIDEWALL DENSILOG

CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO. _____
 COMPANY WELWOOD OF CANADA LTD.
 WELL ANDERSON TAKE # 5
 RGE AL-5-694
 W M LOCATION _____
 FIELD COURTNEY Anderson L7

PROVINCE BRITISH COLUMBIA
 Performance Datum GROUND LEVEL Elev. _____
 Log Measured from GROUND LEVEL Ft. Above Perm. Datum _____
 Well Depth Measured from _____
 K.B. _____
 CSG _____
 G.L. _____

Run No. ONE
 Date 23 JULY 1975
 First Reading 548
 Last Reading 00
 Footage Logged 548
 Depth Reached 551
 Depth Driller 552
 Casing Driller 12

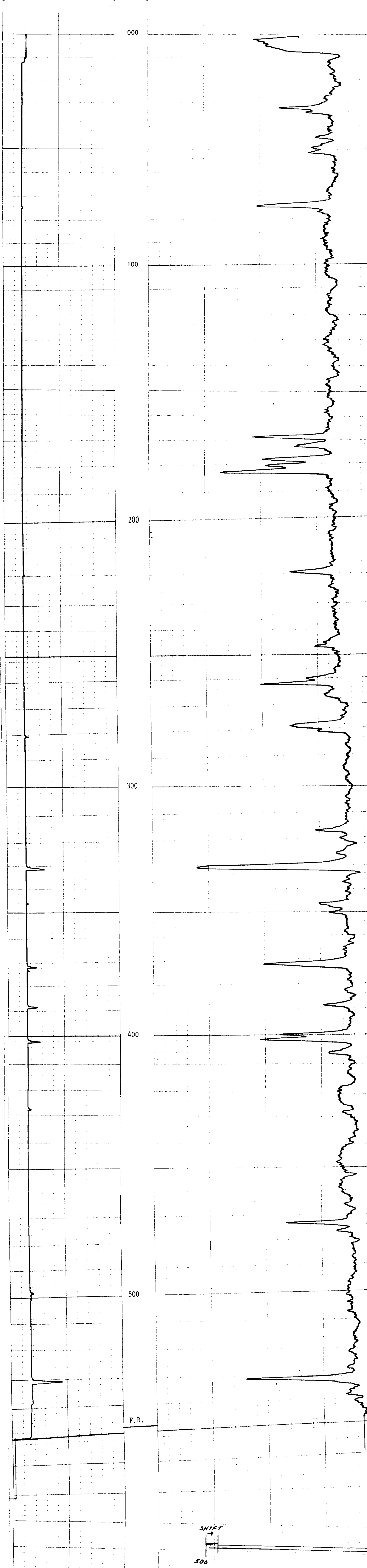
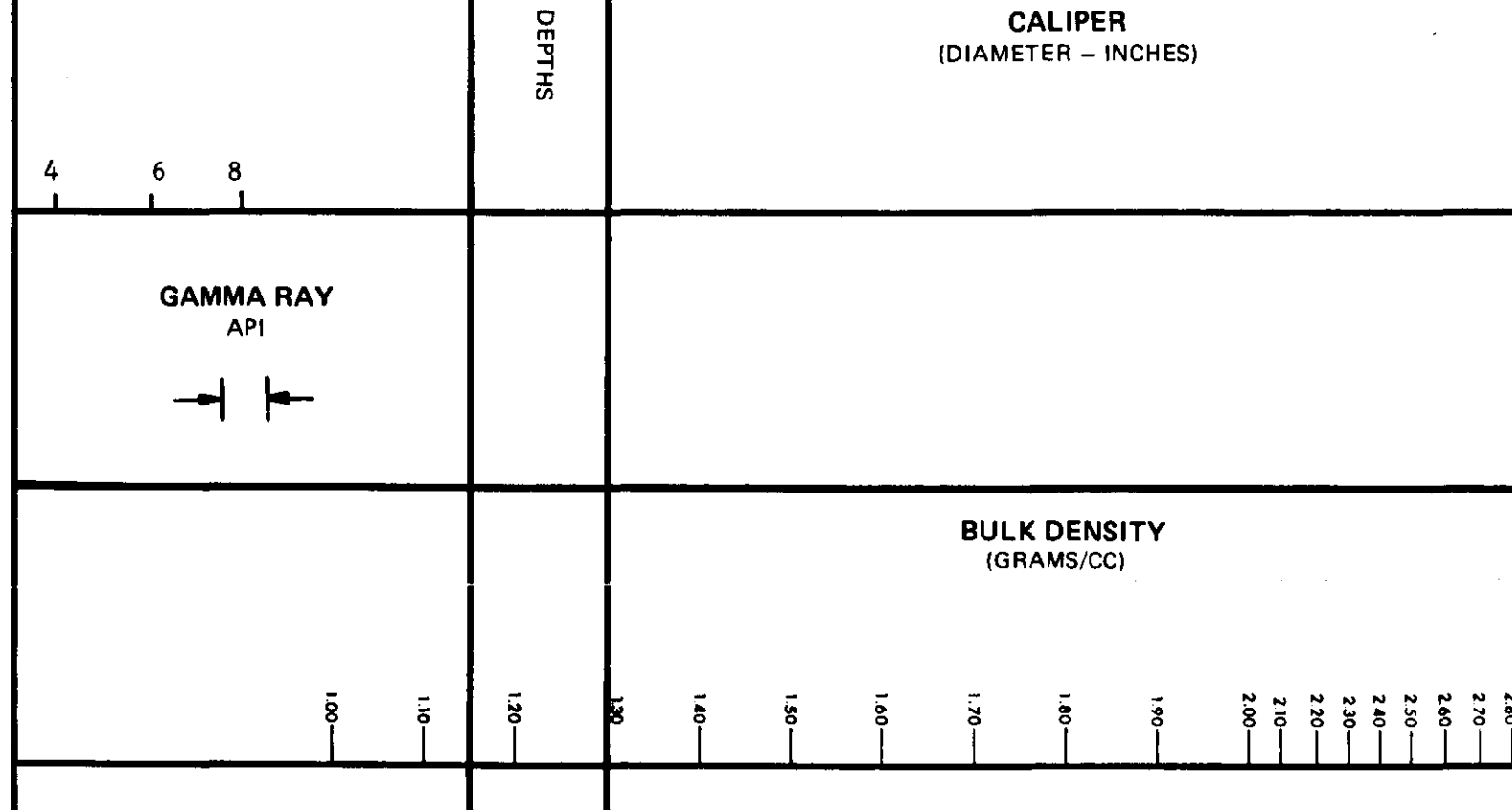
Fluid Type WATER
 Liquid Level 240
 Min. Diam. 4-3/4

Operating Time 2-1/2 HOURS
 Truck No. _____

Recorded By SIM Witnessed By GREEN

RUN NO.	GENERAL		SPEED FT/MIN	T.C. SEC.	GAMMA RAY		SIDEWALL DENSILOG				
	FROM	TO			SENS SETTINGS	ZERO DIV. L OR R	API G.R. UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	CPS/DIV
1	00	548	10					3	500	1.2R	31.69
1	00	550	30		CALIPER						

REMARKS _____
 DENSITY TOOL SERIAL NO 241
 CALIPER TOOL SERIAL NO 785



ROKE

SIDEWALL DENSILOG
CALIPER

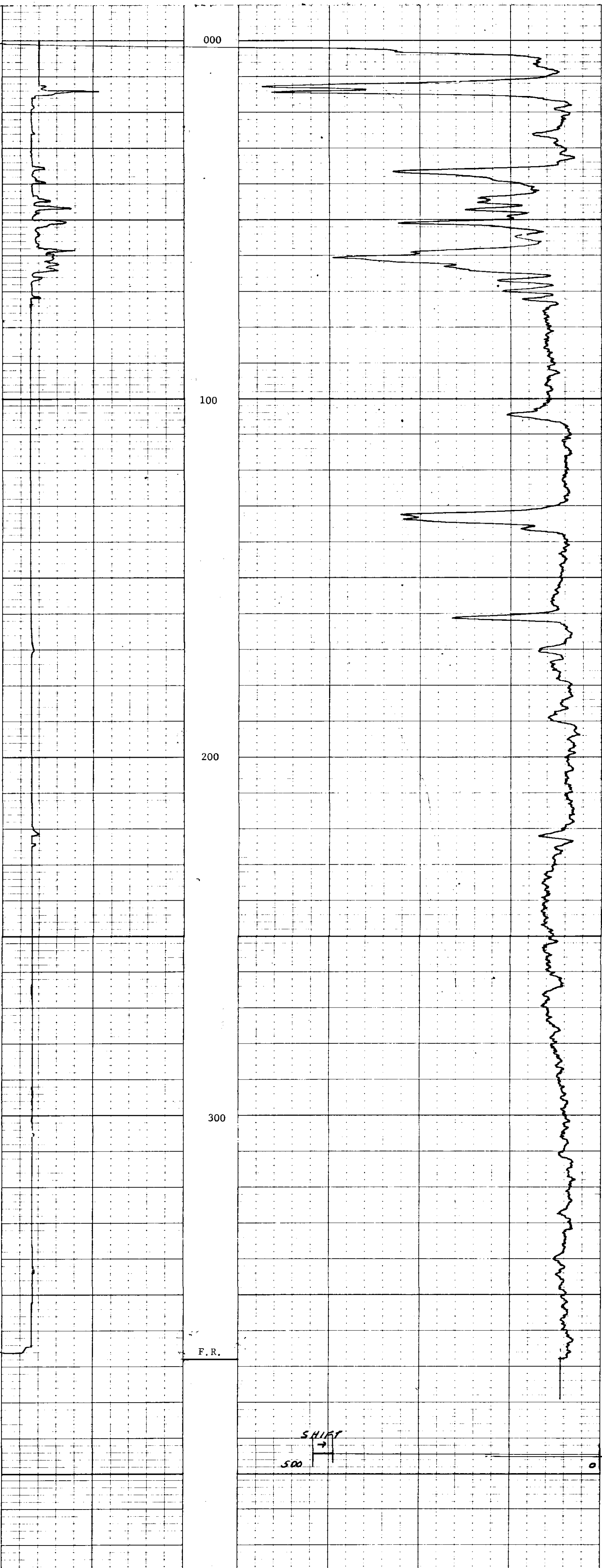
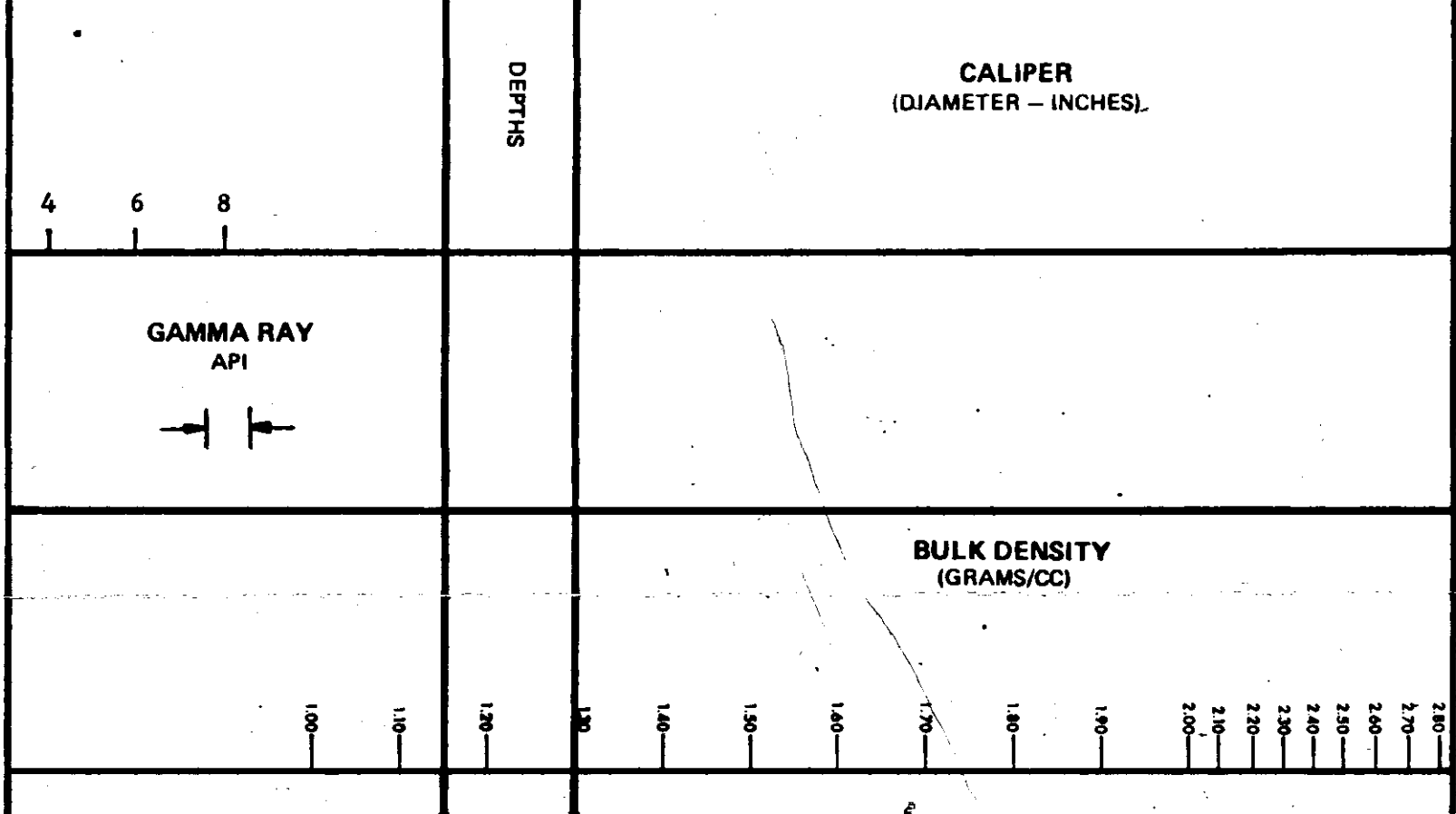
OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	WELLMOOD OF CANADA LTD.
LSD SEC	WELL	ANDERSON # 6
TWP	RGE	AL-6
W	LOCATION	(LS)
M	FIELD	COUNTRY
	PROVINCE	BRITISH COLUMBIA
	PERMANENT DATUM	GROUND LEVEL
	LOG MEASURED FROM	GROUND LEVEL
	WELL DEPTHS MEASURED FROM	
	Other Services:	GR-RES
		K.B.
		CSG
		G.L. 1895
Run No.	ONE	
Date	26 JULY 1975	
First Reading	368	
Last Reading	00	
Footage Logged	368	
Depth Reached	371	
Depth Driller		
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	15	
Min. Diam.	4-3/4	
Operating Time	2 HOURS	
Truck No.	30	
Recorded By	SIM	Witnessed By GREEN

RUN NO.	GENERAL		SPEED FT/MIN	T.C. SEC.	GAMMA RAY			SIDEWALL DENSILOG			CPS/DIV
	FROM	TO			SENS SETTINGS	ZERO DIV.L OR R	API G.R. UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	ZERO DIV.L OR R	
1	00	368	12					3	500	1.12R	31.69
1	00	366	30		CALIPER						

REMARKS

DENSITY TOOL SERIAL NO 241
CALIPER TOOL SERIAL NO 785

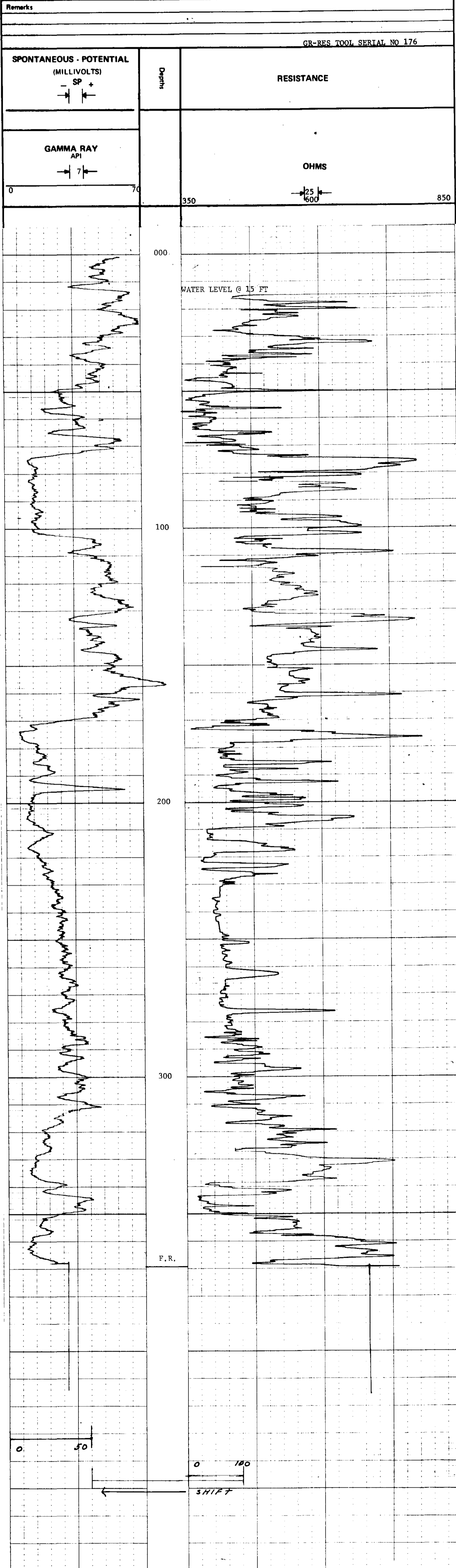


ROKE

GAMMA RAY - RESISTANCE LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	WEILWOOD OF CANADA LTD
LSD	WELL	ANDERSON LAKE # 6 AL-6
SEC	LOCATION	(L9) 6001
TWP	FIELD	COBURN
RGE	PROVINCE	BRITISH COLUMBIA
W	Other Services:	DENS-CAL
	Permanent Datum	GROUND LEVEL Elev. 1895
	Log Measured from	GROUND LEVEL Ft. Above Perm. Datum
	Well Depth Measured from	
Run. No.	ONE	
Date	26 JULY 1975	
First Reading	369	
Last Reading	00	
Footage Logged	369	
Depth Reached	369	
Depth Driller		
Casing Rate		
Casing Driller		
Fluid Type	WATER	
Liquid Level	15	
Min. Diam.	4-3/4	
Rm @ of		
Operating Time	2 HOURS	
Truck No.	30	
Recorded By	SIM	Witnessed By GREEN

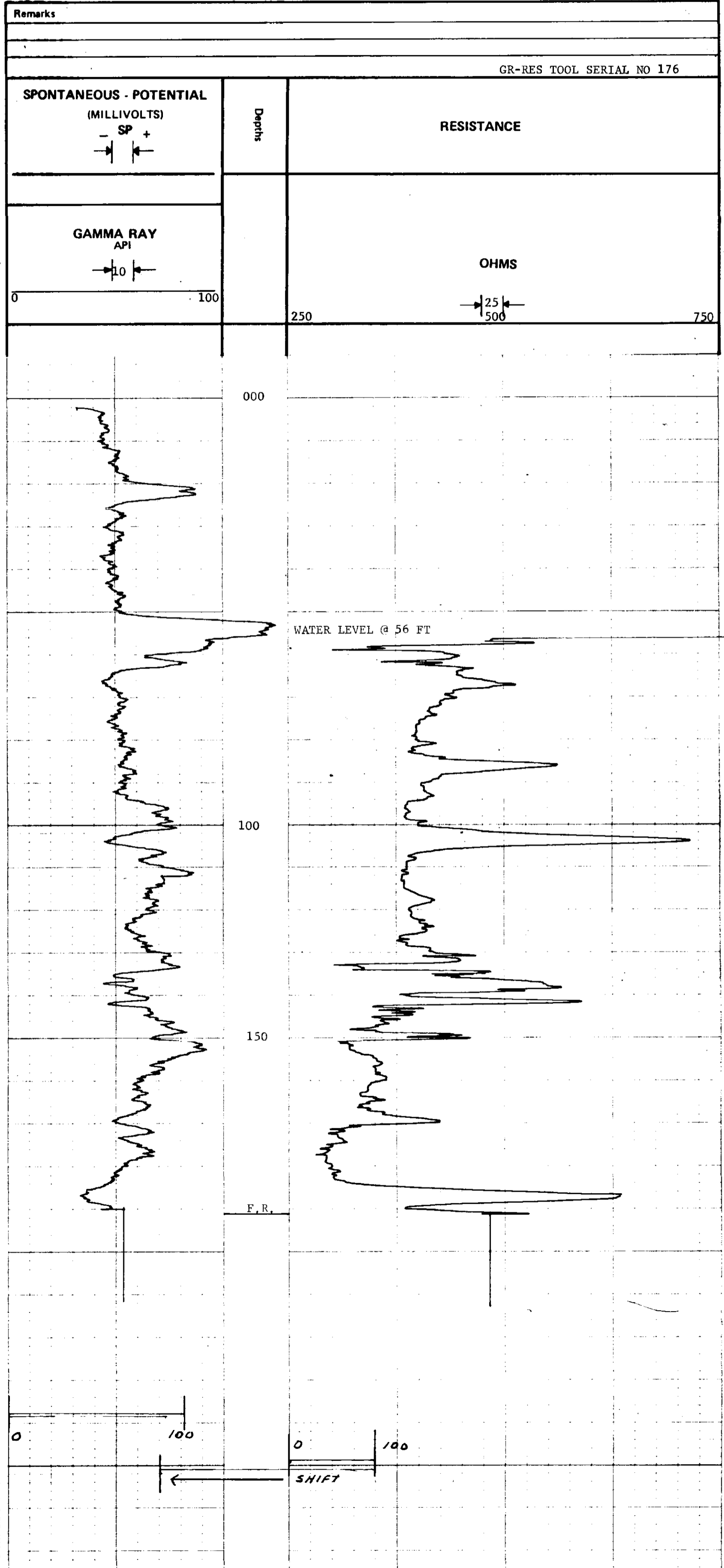


ROKE

GAMMA RAY - RESISTANCE LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	WELDMOOD OF CANADA LTD.
LSD	WELL	ANDERSON LAKE #7 AL-7
SEC	LOCATION	(L10) 694
TWP	FIELD	COURTNEY
RGE	PROVINCE	BRITISH COLUMBIA
M	Permanent Datum	GROUND LEVEL Elev. 1495
	Log Measured from	GROUND LEVEL Ft. Above Perm. Datum
	Well Depths Measured from	Other Services:
		DENS-CAL
		K.B.
		CSG
		G.L. 1495
Run. No.	ONE	
Date	26 JULY 1975	
First Reading	191	
Last Reading	00	
Footage Logged	191	
Depth Reached	191	
Depth Driller		
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	56	
Min. Diam.	4-3/4	
Rm @ of		
Operating Time	1 HOUR	
Truck No.	30	
Recorded By	SIM	Witnessed By GREEN



ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO. _____ COMPANY WELLMOOD OF CANADA LTD

SEC _____ WELL ANDERSON LAKE # 7 AL-7

TWP _____ RGE _____ LOCATION (L11) COURTNEY

FIELD _____ COURTNEY

PROVINCE BRITISH COLUMBIA Elev. 1497

Permanent Datum GROUND LEVEL K.B. _____

Log Measured from GROUND LEVEL Ft. Above Perm. Datum CSG _____

Well Depths Measured from _____ G.L. 1497

GR-RSS _____

Other Services: _____

Run. No. ONE Date 26 JULY 1975

First Reading 189

Last Reading 00

Footage Logged 189

Depth Reached 192

Depth Driller _____

Casing Roke _____

Casing Driller _____

Fluid Type WATER

Liquid Level 56

Min. Diam. 4-3/4

Operating Time 1 HOUR

Truck No. 30

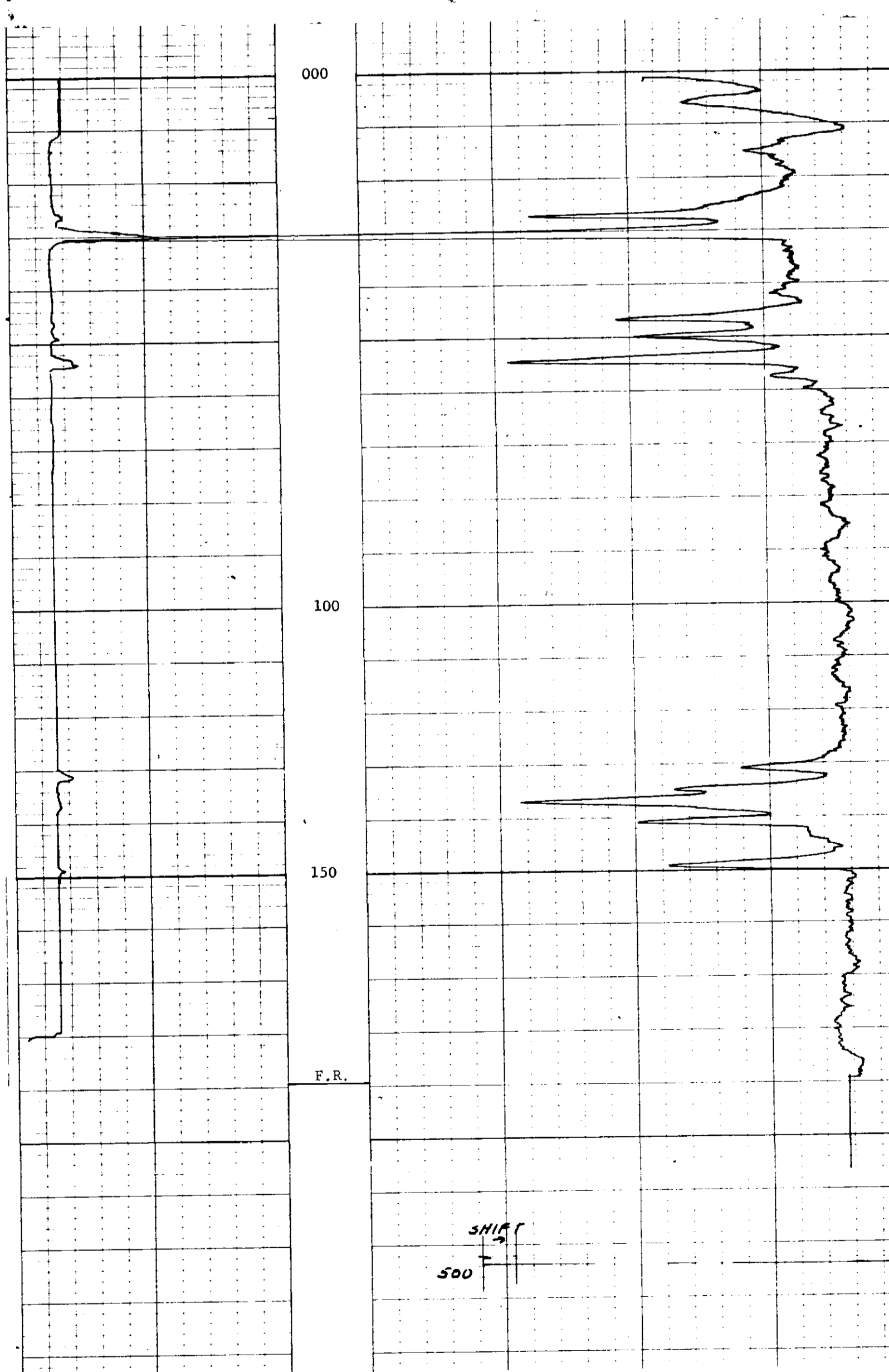
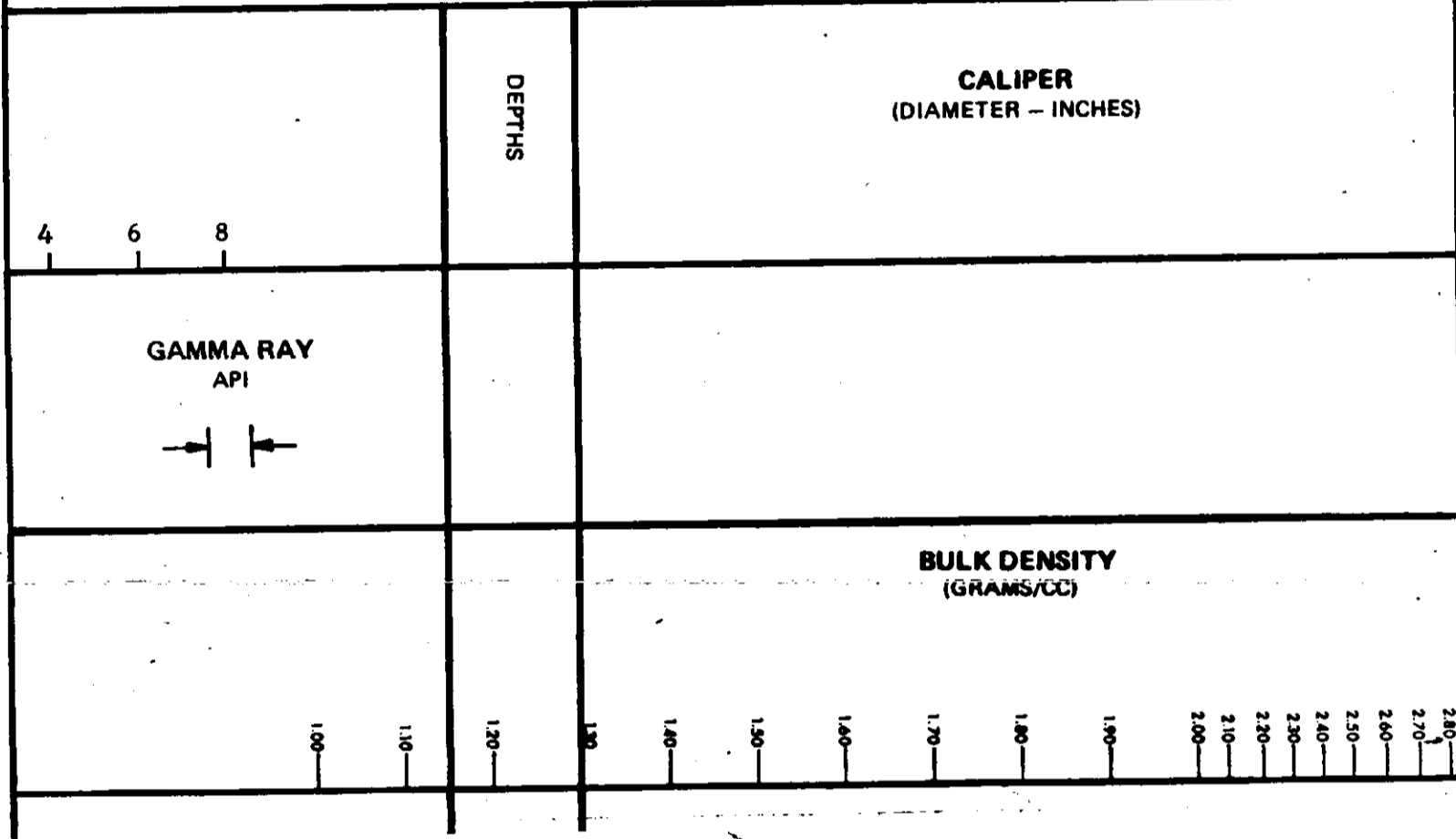
Recorded By SIM Witnessed By GREEN

RUN NO.	GENERAL		SPEED FT/MIN	GAMMA RAY			SIDEWALL DENSILOG				
	FROM	TO		T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API G.R. UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	CPS/DIV
1	00	189	12					3	500	1.12R	31.69
1	00	180	30		CALIPER						

REMARKS _____

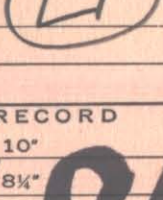
DENSITY TOOL SERIAL NO 241

CALIPER TOOL SERIAL NO 785



CAMPBELL RIVER

B. H. Z
 CR-2

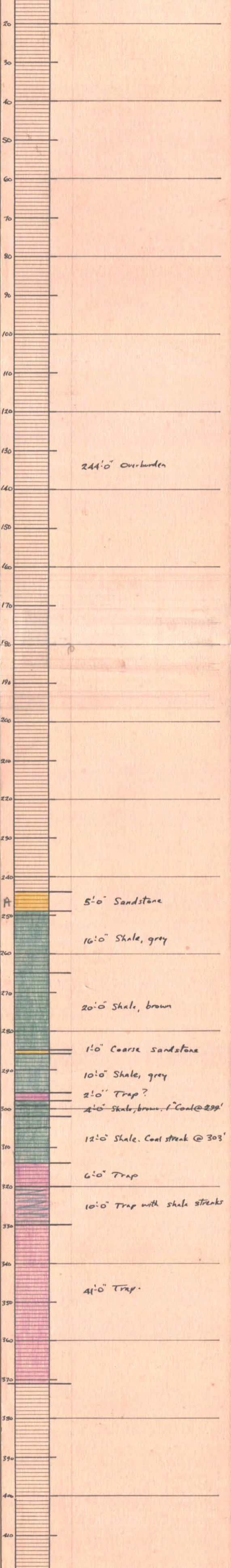
STATE		COMPANY
COUNTY	FARM	WELL NO.
BLOCK	SURVEY	
SEC.		
T.	R.	TOTAL DEPTH
CONTRACTOR		
COMMENCED		
COMPLETED		
REMARKS		
ALTITUDE		
PRODUCTION		

CASING RECORD

00694

10"		
8 1/4"		
6 1/2"		
5 1/2"		
1"		
SHOT	QUARTS	BETWEEN

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



CAMPBELL RIVER

B.H. 3
 CR-3

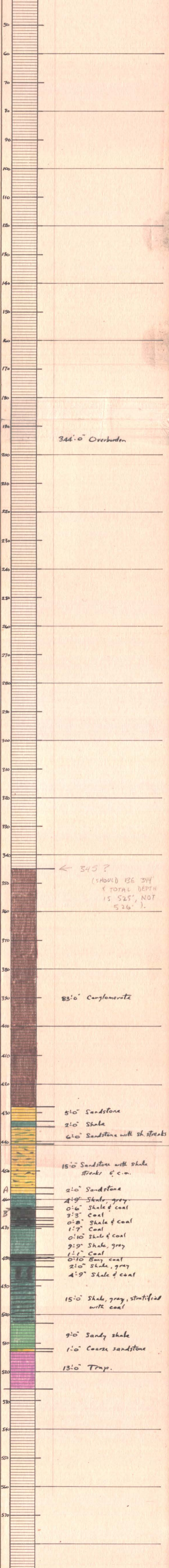
STATE		COMPANY	
COUNTY		FARM	WELL NO.
BLOCK		SURVEY	
SEC.			
T.	R.	TOTAL DEPTH	
		CONTRACTOR	
		COMMENCED	
		COMPLETED	
ALTITUDE		REMARKS	(L2)
PRODUCTION			

CASING RECORD

10"
 8 1/4"
 6 1/2"
 5 1/2"
 4"
 SHOT QUARTS BETWEEN

00694

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



CAMPBELL RIVER

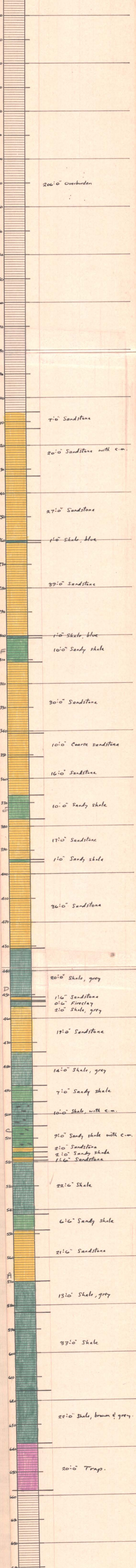
B.H.4
 CR-4

STATE		COMPANY	
COUNTY	FARM	WELL NO.	
BLOCK	SURVEY		
SEC.			
T.	R.	TOTAL DEPTH	
CONTRACTOR			
COMMENCED			
COMPLETED		(13)	
REMARKS			
ALTITUDE			
PRODUCTION			

CASING RECORD

10"	
8 1/2"	
6"	
5 1/2"	
5"	
4 1/2"	
4"	
3 1/2"	
3"	
2 1/2"	
2"	
1 1/2"	
1"	
3/4"	
5/8"	
1/2"	
3/8"	
1/4"	
SHOT	BETWEEN

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



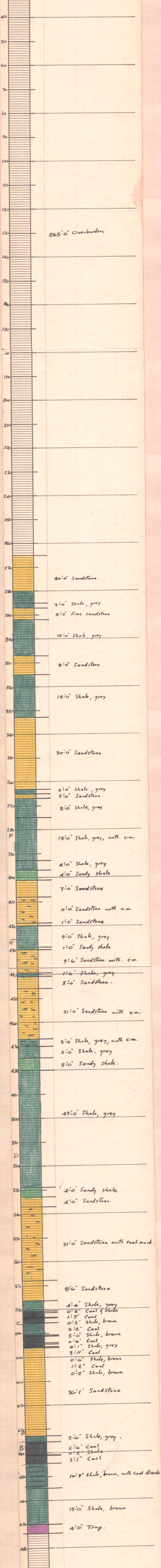
B.H. 6
CR-6

STATE		COMPANY
COUNTY	FARM	WELL NO.
BLOCK	SURVEY	
SEC.		
T.	R.	TOTAL DEPTH
CONTRACTOR		24
COMMENCED		
COMPLETED		
REMARKS		
ALTITUDE		
PRODUCTION		

CASING RECORD

10"
8 1/2"
6 1/2"
15 1/2"
SHOT QUARTS BETWEEN

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



CAMPBELL RIVER

B.H. 5
 CR-5

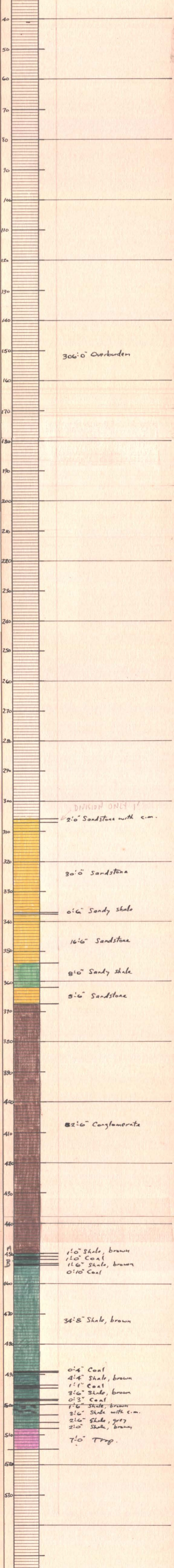
STATE		COMPANY	WELL NO.
COUNTY		FARM	
BLOCK		SURVEY	
SEC.			
T.	R.	TOTAL DEPTH	
ALTIMUDE		CONTRACTOR	
PRODUCTION		COMMENCED	
		COMPLETED	
		REMARKS	

CASING RECORD

10"
 4"
 6 3/8"
 20'
 1 3/4"
 1/4"
 SHOT QUARTS BETWEEN

00694

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



CR-7

STATE

COMPANY

COUNTY

FARM

WELL NO.

BLOCK

SURVEY

SEC.

T.

R.

TOTAL DEPTH

CONTRACTOR

COMMENCED

COMPLETED

REMARKS

ALTITUDE

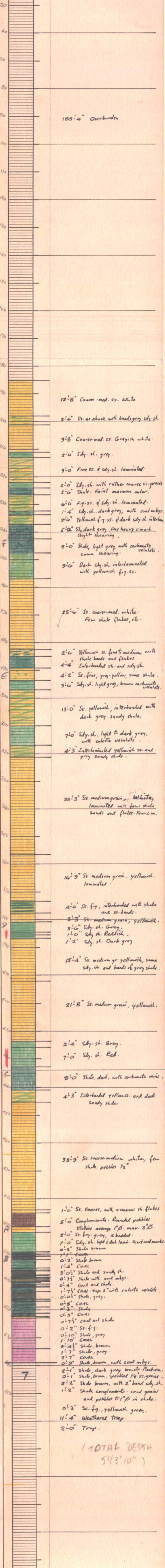
PRODUCTION

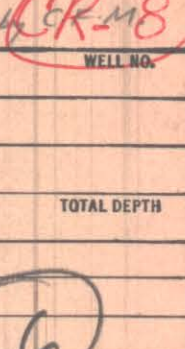
CASING RECORD

10"
8"
6"
5 1/2"
SHOT QUARTS BETWEEN

00694

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa





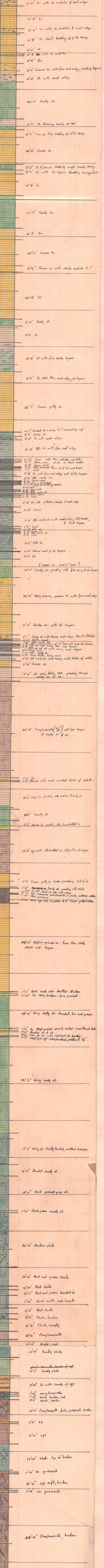
STATE	COMPANY	
COUNTY	FARM	
BLOCK	SURVEY	
SEC.		
T.	R.	TOTAL DEPTH
CONTRACTOR		
COMMENCED		
COMPLETED		
REMARKS		
ALTIMUDE		
PRODUCTION		

CASING RECORD

10"
8 3/4"
5 1/2"
5 1/2"

SHOT QUARTS BETWEEN

FORM 394 - In stock and for sale by Mid-West Prrs. Co., Tulsa

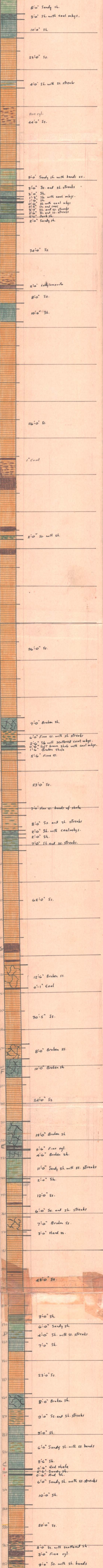


STATE		COMPANY	
COUNTY		CORRECTED DRILLERS LOG	
BLOCK		FARM	WELL NO.
SEC.		SURVEY	
T.	R.	TOTAL DEPTH	
CONTRACTOR			
COMMENCED			
COMPLETED			
REMARKS			
ALTITUDE		PRODUCTION	

CASING RECORD

10"
8 1/4"
6 1/2"
15 1/2"
2 1/2"
SHOT QUARTS BETWEEN

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



CAMPBELL RIVER

B.H. 10

CR-10

LOG BY C.K.M.

STATE		COMPANY
COUNTY	FARM	WELL NO.
BLOCK	SURVEY	
SEC.		
T.	R.	TOTAL DEPTH
		CONTRACTOR
		COMMENCED
		COMPLETED
ALTITUDE	REMARKS	
PRODUCTION		

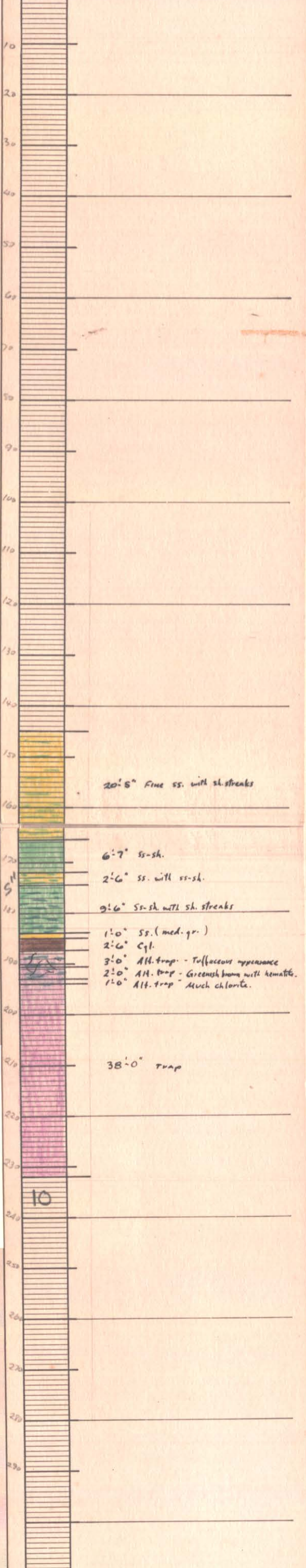
28

CASING RECORD

00694

10"		
8 1/2"		
20"	6 1/2"	
15 1/2"	5 1/2"	
SHOT	QUARTS	BETWEEN

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



CAMPBELL RIVER
BH. 10

CR-10

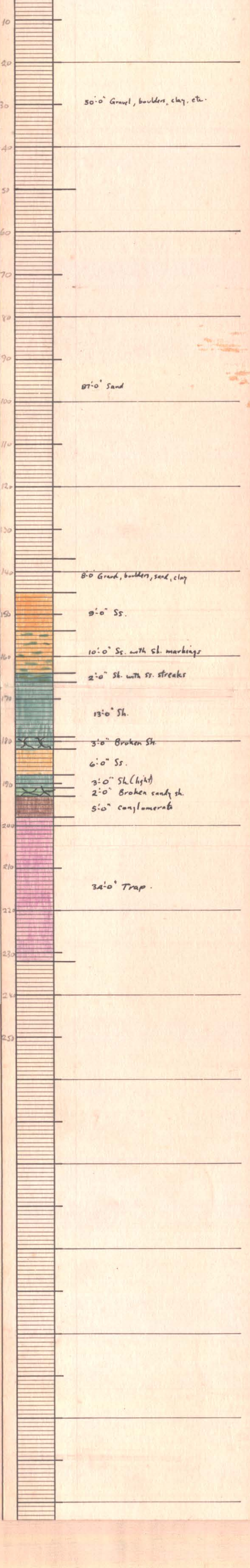
STATE		COMPANY
COUNTY	FARM	WELL NO.
BLOCK	SURVEY	
SEC.		
T.	R.	TOTAL DEPTH
		CONTRACTOR
		COMMENCED
		COMPLETED
ALTIMUDE		REMARKS
PRODUCTION		

CASING RECORD

10"	
8"	
6"	
4"	
3 1/2"	
SHOT	QUARTS BETWEEN

00694

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa

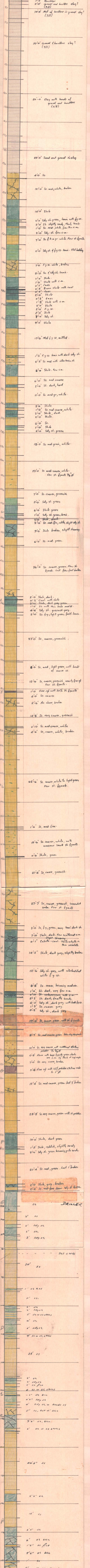


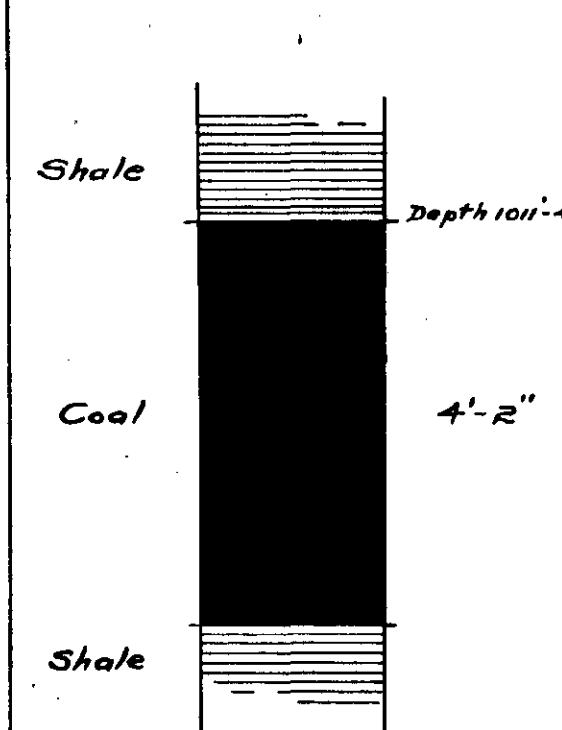
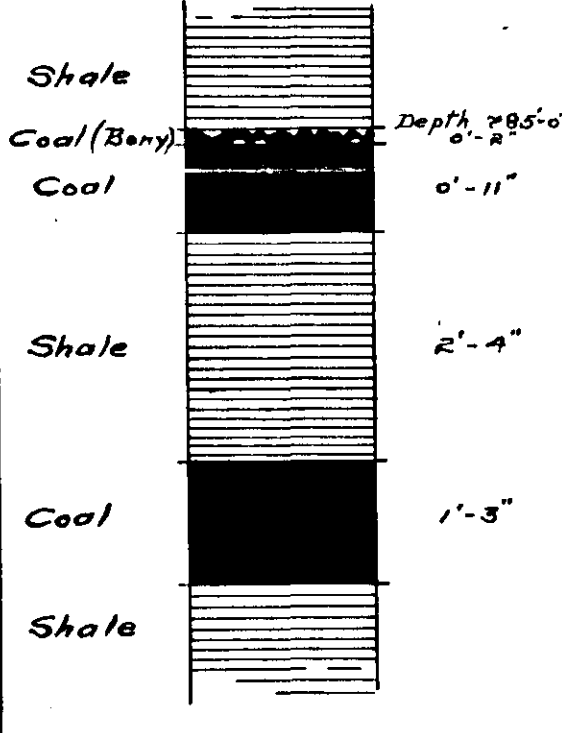
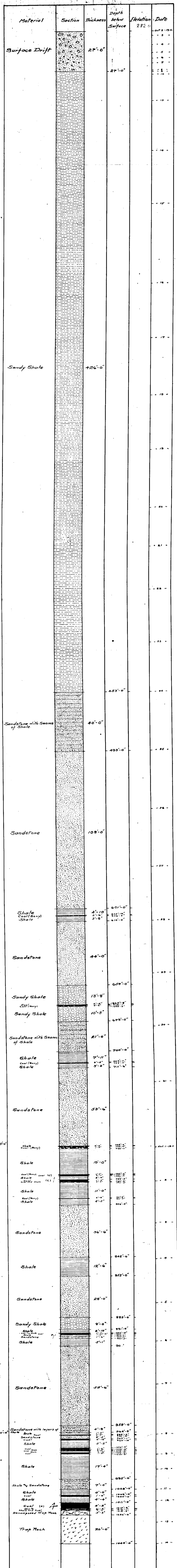
STATE	B.H. 16	
COUNTY	COMPANY	WELL NO.
BLOCK	FARM	
SEC.	SURVEY	
T.	R.	TOTAL DEPTH
CONTRACTOR		
COMMENCED		
COMPLETED		
REMARKS		
ALTIMITUDE		
PRODUCTION		

00694

5 1/2" SHOT QUARTS BETWEEN

FORM 394 - In stock and for sale by Mid-West Print. Co., Tulsa





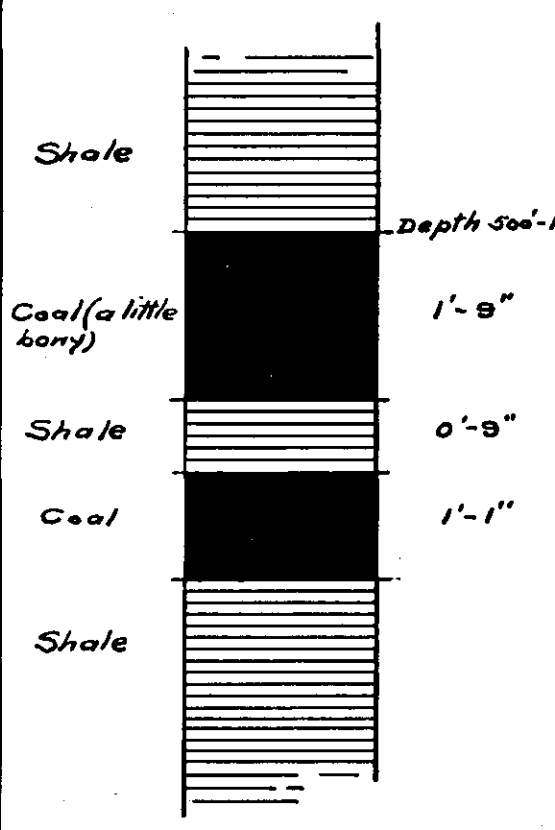
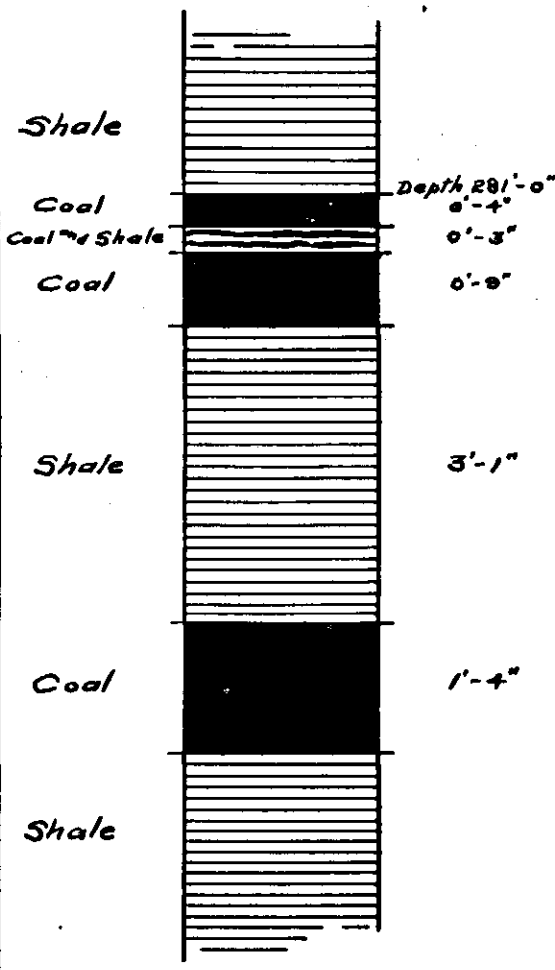
Analysis (C)
 Volatile Matter 35.95%
 Fixed Carbon 56.65%
 Ash 2.40%
 Sulphur 1.15%
 Moisture 1.24%
 Coke Firm.

Analysis (a)
 Volatile Matter 29.98%
 Fixed Carbon 50.86%
 Ash 19.16%
 Sulphur 0.61%
 Moisture 1.33%
 Coke Firm.

CX-118
694
 (M3)

Canadian Collieries (Dunsmuir) Ltd.
 PROSPECT HOLE No 118
 Comox District
 Scale 1" = 20'

Material	Section	Thickness	Depth below Surface	Elevation	Date
Surface Gravel		10'-0"	0'-0"		Dec. 20-1911
Sandstone (Gray)		56'-5"	10'-0"		" 21 "
Coal		2'-11"	66'-5"	69'-8"	" 22 "
Sandstone (Gray)		63'-4"			" 23 "
Shale		4'-0"	133'-0"	137'-0"	" 24 "
Sandstone (Gray)		53'-0"			" 25 "
Sandy Shale		6'-0"	190'-0"	196'-0"	" 27 "
Sandstone (Gray)		58'-0"			" 28 "
Coal		1'-8"	254'-0"	259'-8"	" 29 "
Shale		25'-4"			" 30 "
Coal Shale Coal (c) Shale		1'-4" 3'-1" 1'-4" 4'-8"	281'-4" 288'-5" 295'-9" 291'-5"		" 31 "
Sandy Shale		20'-6"			" 32 "
Sandstone (Gray)		20'-7"			" 33 "
Shale coal shale Coal bony coal Coal shale					" 34 "
Sandstone (Gray)		20'-3"			" 35 "
Coal Shale		9'-4"	303'-4"	307'-8"	Oct. 1-1911
Sandstone (Gray)		22'-1"			" 36 "
Sandy Shale Coal Shale		6'-8" 1'-11" 6'-4"	320'-1" 325'-10" 332'-5"		" 37 "
Sandstone		88'-0"			" 38 "
Coal Shale Coal bony coal Shale bony coal Coal (a) Coal (a) Shale Coal Coal shale Shale		1'-8" 2'-11" 1'-9" 1'-0" 1'-0" 3'-2" 1'-0" 1'-0" 1'-4"	402'-1" 403'-9" 405'-8" 406'-8" 407'-8" 408'-8" 409'-8" 410'-8" 411'-2"		" 39 "
Sandstone (Gray)		32'-0"			" 40 "
Bony Coal coal Shale Sandstone (Gray)		1'-0" 1'-0" 4'-0"	422'-8" 423'-8" 427'-8"		" 41 "
Shale Coal shale Sandstone (Gray) Shale		1'-0" 1'-0" 3'-2" 2'-4"	430'-8" 431'-8" 435'-0" 437'-4"		" 42 "
Decomposed Trap		14'-6"			" 43 "
Trap		9'-0"	504'-2"	503'-2"	" 44 "



Analysis (c)
 Volatile Matter 34.80%
 Fixed Carbon 53.76%
 Moisture 1.02%
 Sulphur 1.72%
 Ash 11.44%
 Coke Firm.

Analysis (g)
 Volatile Matter 32.20%
 Fixed Carbon 53.90%
 Moisture 1.49%
 Sulphur 1.65%
 Ash 13.30%
 Coke Firm.

PROSPECT HOLE N° 117

Cornox District

SCALE 1 IN 20 FT

Material	Section	Thickness	Depth below Surface	Elevation	Date
			0' 0"		Aug 1, 1901
Boulders		25' 0"	25' 0"		1901
Gravel & Blue Clay		2' 0"	27' 0"		Sept 1, 1901
Sandy shale		10' 0"	37' 0"		Sept 8, 1901
Shaley Sandstone		98' 0"	147' 0"		
Brown shale Sandy shale Brown shale		10' 0"	157' 0"		
Sandstone (Light Grey)		53' 0"	210' 0"		
Brown shale		3' 0"	213' 0"		
Sandstone (Light Grey)		60' 0"	273' 0"		
Bony coal Sandy shale Brown shale		10' 0"	283' 0"		
Sandstone (Light Grey)		23' 0"	306' 0"		
Clay shale		11' 0"	317' 0"		
Bony coal Sandy shale Brown shale Clay shale Brown shale		10' 0"	327' 0"		
Sandstone (Light Grey)		45' 10"	372' 10"		
Sandy shale		1' 0"	373' 10"		
Brown shale		17' 0"	390' 10"		
Shaley Sandstone		14' 0"	404' 10"		
Clay shale		7' 0"	411' 10"		
Shaley Sandstone		22' 0"	433' 10"		
Brown shale		11' 0"	444' 10"		
Shaley Sandstone		7' 0"	451' 10"		
Sandstone (Light Grey)		33' 0"	484' 10"		
Shaley Sandstone Sandy shale Brown shale COAL Brown shale Clay shale COAL		6' 0"	520' 10"		
Clay shale		24' 0"	544' 10"		
Shaley Sandstone		24' 0"	568' 10"		
Brown shale COAL Sandy shale Brown shale Shaley Sandstone		10' 0"	578' 10"		
Clay shale		12' 0"	590' 10"		
Shaley Clay		12' 0"	602' 10"		
Clay shale		7' 0"	609' 10"		
Brown shale COAL COAL Clay shale		12' 0"	621' 10"		
Sandstone (Light Grey)		31' 0"	652' 10"		
Shale & Coal Sandy shale Shaley Sandstone		3' 0"	655' 10"		
Sandstone (Light Grey)		17' 0"	672' 10"		
Bony coal Sandy shale		2' 0"	674' 10"		
Bony coal Sandy shale		2' 0"	676' 10"		
Clay shale		5' 0"	681' 10"		
Sandstone (Light Grey)		14' 0"	695' 10"		
COAL Sandy shale Brown shale		6' 0"	701' 10"		
Sandy shale		7' 0"	708' 10"		
Shaley Sandstone		14' 0"	722' 10"		
Sandstone (Light Grey)		20' 0"	742' 10"		
COAL Sandy shale Brown shale		6' 0"	748' 10"		
Sandy shale		7' 0"	755' 10"		
Shaley Sandstone		14' 0"	769' 10"		
Sandstone (Light Grey)		20' 0"	789' 10"		
Bony coal Sandy shale Brown shale		6' 0"	795' 10"		
Bony coal Brown shale		5' 0"	800' 10"		
Bony coal		1' 0"	801' 10"		
Clay shale		5' 0"	806' 10"		

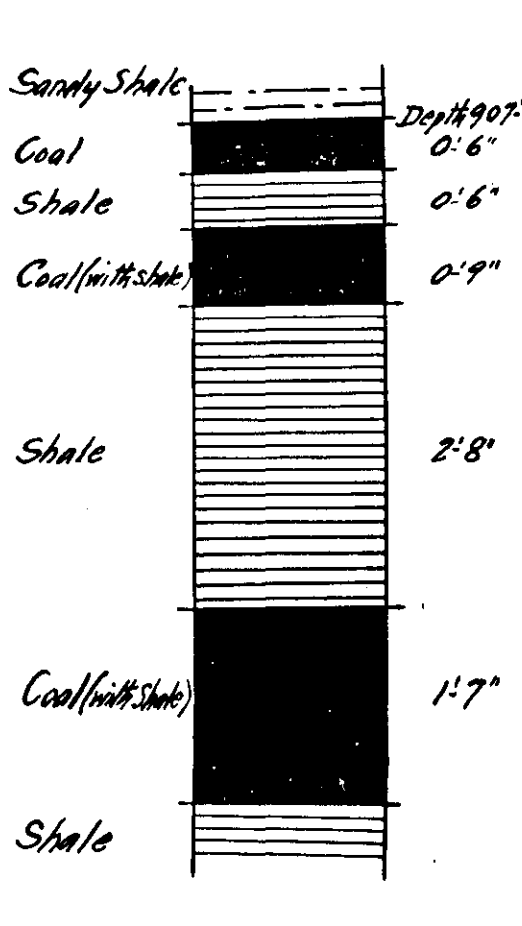
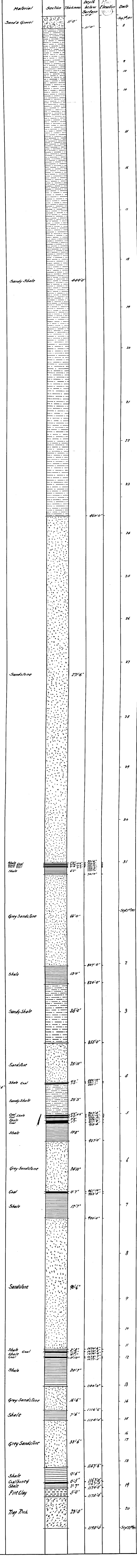
Material	Section	Thickness	Depth below Surface	Elevation	Date
Gravel		22'0"	0'0"		
Sandstone		67'4"	22'0"		Aug 21 1911
Coal		2'0"	89'4"		
Shale		5'0"	91'4"		
Grey Sandstone		53'8"	96'4"		
Brown Shale		3'0"	150'0"		
			153'0"		
Grey Sandstone		87'0"			
Sandy Shale		9'0"	240'0"		
			249'0"		
Shale					
Coal (lower 4' boney)		2'1"			
Shale		0'3"			
Coal (4' boney)		3'3"			
Shale		0'8"			
Coal (white boney)		0'9"			
Sandy Shale		2'2"			
Coal		1'0"			
Grey Sandstone		33'6"			
Coal Shale		0'4" 0'8"	329'7"		
Coal Shale		1'1" 1'5"	331'5"		
Grey Sandstone		12'0"	332'5"		
Sandy Shale		2'6"	334'1"		
Coal (with shale)		0'3"	337'5"		
Grey Shale		11'11"	347'6"		
Coal (with shale)		0'5"	358'7"		
Grey Shale		5'9"	364'10"		
Coal		2'2"	370'7"		
Shale		5'3"	372'9"		
Grey Sandstone		4'0"	378'0"		
Shale		2'0"	382'0"		
Sandstone		7'0"	389'0"		
Sandy Shale		2'0"	396'0"		
			398'0"		
Grey Sandstone		65'4"			
Coal		1'0"	533'4"		
Sandy Shale		3'8"	534'4"		
Coal		2'0"	538'0"		
Shale		4'2"	540'0"		
Coal		1'5"	544'2"		
Shale			545'7"		
Shale		9'9"	555'6"		
Coal		0'2"	555'8"		
Shale		3'8"	559'2"		
Shale		0'6"	559'8"		
Shale		4'4"	564'0"		
Sandstone		14'6"	568'6"		
Shale		3'6"	572'2"		
Coal (with shale)		1'2"	573'4"		
Shale		8'10"	581'6"		
Sandstone		25'6"			
Coal Brown Shale		1'2"	587'2"		
Coal Brown Shale		0'3" 0'1"	587'5"		
Coal		0'4"	587'9"		
Coal		0'10"	588'9"		
Grey Shale		9'9"	598'8"		
Sandstone		33'3"	608'6"		
Shale		0'8"	637'9"		
Bony Coal		0'11"	641'5"		
Coal (white boney)		1'7"	642'6"		
Shale (Streaks of Coal)		0'7"	644'3"		
Sandstone		0'1"	645'0"		
Coal		2'0"	646'0"		
Sandy Shale		0'2"	648'0"		
Coal (with shale)		0'9"	648'9"		
Fire Clay			650'0"		
Coal Black Shale		4'8"	654'8"		
Coal (Bony) Shale		0'8"	659'6"		
Sandstone		2'6"	660'4"		
Sandy Shale		0'1" 0'7"	663'0"		
Sandy Shale		0'2" 2'10"	663'2"		
Coal (with shale)		3'0" 0'9"	666'2"		
Tramp (Decomposed)		24'10"	670'0"		
			680'8"		

Analysis

Moisture	0.45%
Volatiles Matter	25.80%
Fixed Carbon	59.56%
Ash	14.64%
Sulphur	0.56%

CX-115
 694
 (M6)

Canadian Collieries (Dunsmuir) Ltd.
 PROSPECT HOLE NO 115
 Comox District
 Scale 1" = 20'



CX-114
 694
 M7

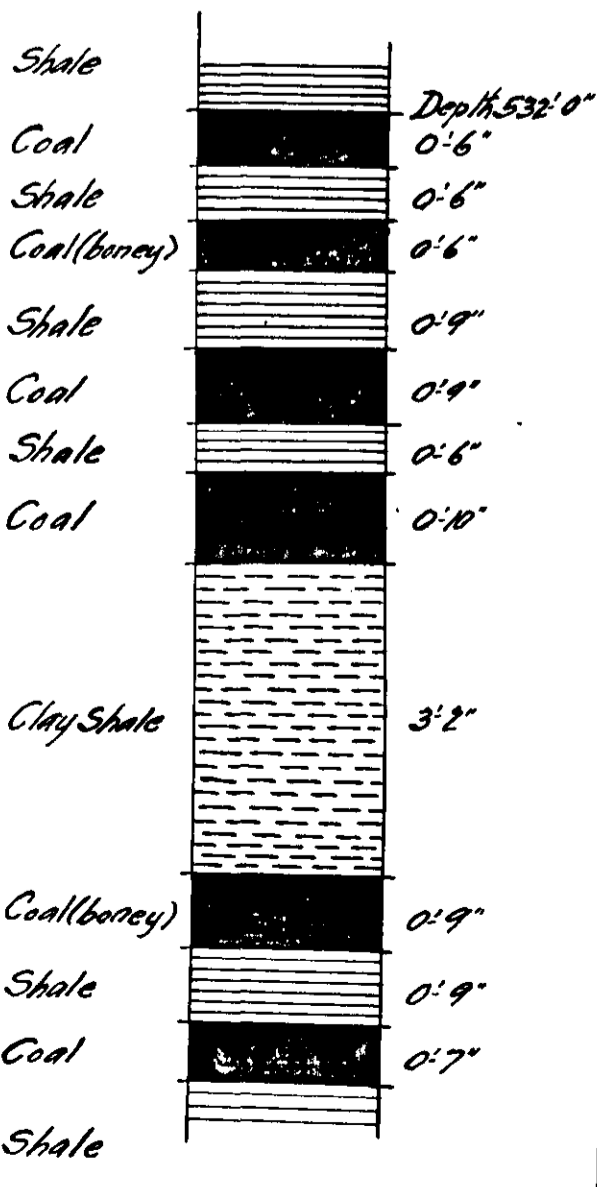
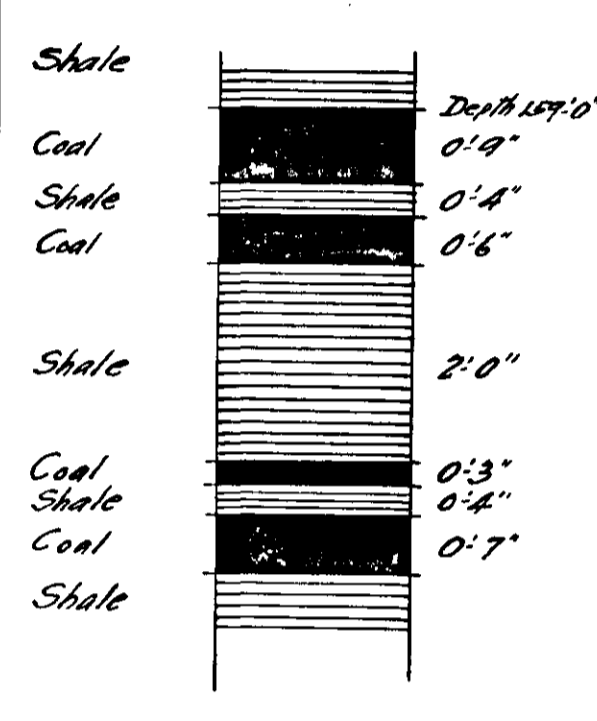
Canadian Collieries (Dunsmuir) Ltd.

PROSPECT HOLE NO 114

Comox District

Scale 1" = 20'

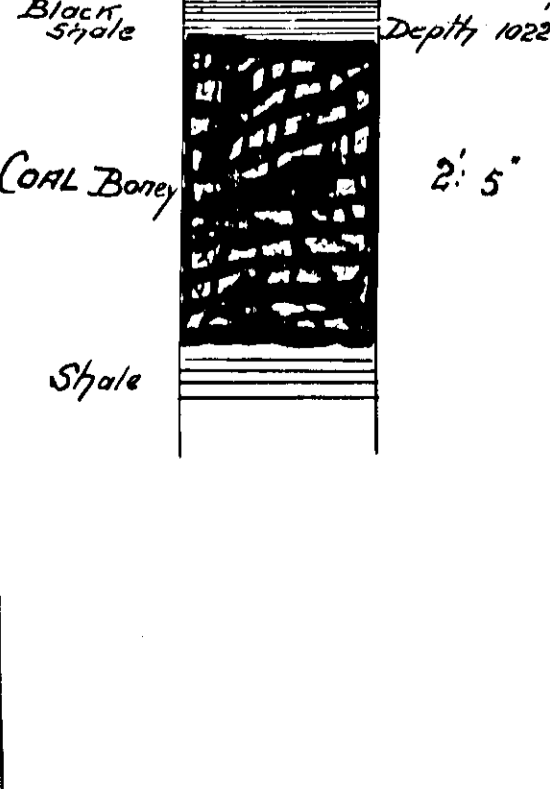
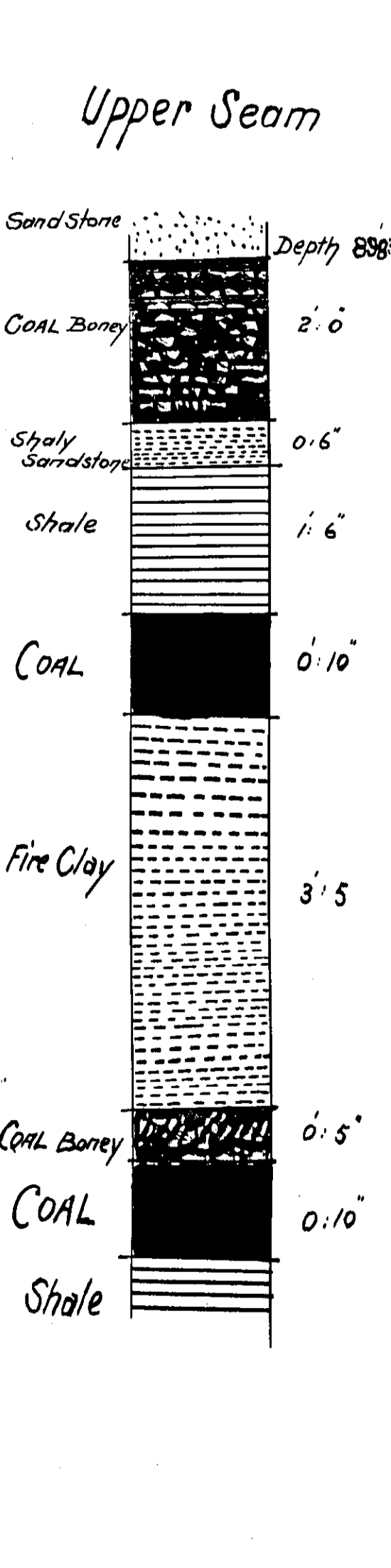
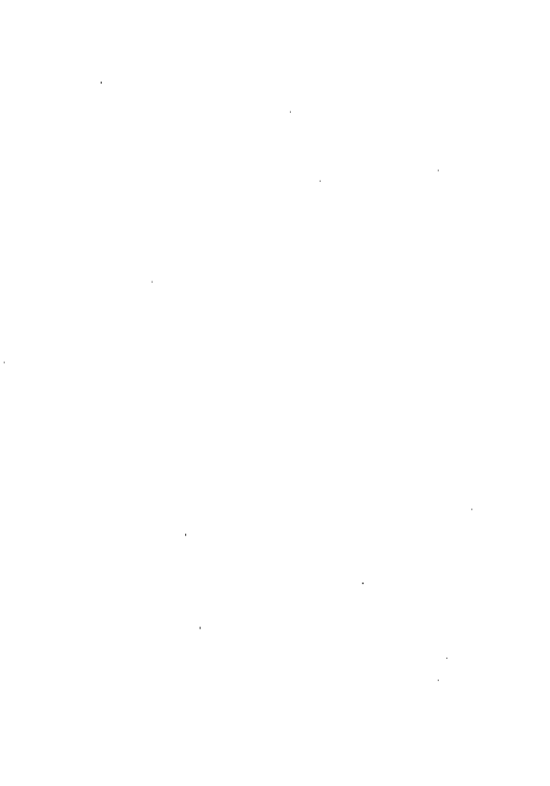
Material	Section	Thickness	Depth below Surface	Elevation	Date
Gravel		7'-0"	0'-0"		
Sandstone		54'-0"	7'-0"		July 21 st 1911
Shale		11'-0"	61'-0"		22
Coal		1'-2"	72'-0"		
Shale		10'-10"	73'-2"		
Sandstone		73'-0"	84'-0"		23
Shale		2'-9"	157'-0"		
Coal		0'-2"	159'-0"		
Shale		0'-6"	161'-0"		
Coal		0'-7"	167'-0"		
Shale		2'-0"	173'-0"		
Coal		0'-3"	175'-0"		
Shale		0'-4"	179'-0"		
Coal		0'-7"	183'-0"		
Shale			189'-0"		
Sandstone		76'-11"	242'-0"		25
Shale		7'-4"	249'-4"		
Coal		1'-2"	250'-6"		26
Shale		4'-7"	255'-1"		
Coal (boney)		0'-2"	255'-3"		
Clay Shale		12'-0"	267'-3"		
Coal (boney)		0'-1"	267'-4"		
Clay Shale		0'-4"	270'-8"		
Clay Shale		16'-4"	287'-2"		27
Coal (boney)		0'-11"	288'-10"		
Shale		6'-4"	294'-4"		
Sandstone		10'-11"	305'-0"		
Shale		2'-0"	307'-0"		
Shale		4'-0"	311'-0"		
Clay Shale		37'-0"	348'-0"		28
Shale		0'-1"	349'-0"		
Coal		0'-2"	349'-2"		
Coal		0'-2"	350'-4"		
Clay Shale		6'-6"	357'-0"		
Sandy Shale		2'-0"	359'-0"		
Clay Shale		4'-0"	363'-0"		
Sandstone		54'-0"	417'-0"		29
Shale		6'-0"	423'-0"		
Clay Shale		0'-6"	423'-6"		
Coal (boney)		0'-7"	424'-3"		Aug 1 st 1911
Clay Shale		0'-0"	427'-1"		
Coal		0'-7"	433'-8"		
Clay Shale		7'-4"	441'-2"		
Shaly Sandstone		19'-0"	460'-2"		
Clay Shale			479'-0"		2
Coal		0'-6"	485'-0"		
Shale		0'-6"	491'-0"		
Coal (boney)		0'-6"	497'-0"		
Shale		0'-9"	503'-0"		
Coal		0'-9"	512'-0"		
Shale		0'-6"	518'-0"		
Coal		0'-10"	528'-0"		3
Clay Shale		3'-2"	538'-0"		
Shale		12'-0"	550'-0"		4
Clay Shale		12'-6"	562'-0"		
Shale		0'-6"	568'-0"		
Coal		0'-6"	574'-0"		
Shale		0'-6"	580'-0"		
Clay Shale		3'-2"	583'-0"		Oct 24 th 1911
Coal (boney)		0'-9"	592'-0"		
Shale		0'-9"	601'-0"		
Coal		0'-7"	608'-0"		
Shale			615'-0"		25
Trap Rock		10'-0"	625'-0"		
Shale			635'-0"		Oct 26 th 1911



CX-112
694
M8

Canadian Collieries (Dunsmuir) Ltd
PROSPECT HOLE NO. 112
Comox District
SCALE 1 IN = 20 FT

Material	Section Thickness	Depth below Surface	Elevation	Date
		0' 0"	2253.0	July 15
Gravel & Boulder Sandstone	12' 0"	12' 0"	2241.0	20
	1' 0"	13' 0"	2240.0	21
Sandy Shale	26' 0"	39' 0"		22
Shale with some Sandstone	41' 0"	80' 0"		23
Sandy Shale	256' 0"	336' 0"		June 30
Shale Sandstone Coal Coal Bony shale	20' 6"	356' 6"	357' 0"	July 1
	0' 6"	357' 0"	357' 0"	2
	1' 3"	358' 3"	358' 0"	3
Sandstone	75' 3"	433' 3"		" 2
Black Shale	8' 3"	442' 0"		" 3
Shale Sandstone Bony Coal Fairly Clear Coal Bony Coal & Shale	7' 0"	516' 0"	517' 0"	" 6
	0' 6"	516' 6"	518' 0"	" 6
	2' 8"	519' 4"	520' 0"	" 6
	2' 4"	521' 8"	523' 0"	" 6
Sandstone Seams of Shale Sandy Shale	39' 0"	560' 0"	563' 10"	" 7
	1' 10"	561' 10"	565' 0"	" 7
	2' 2"	563' 0"		" 7
Sandstone Black shale coal	37' 6"	600' 6"	604' 7"	July 11
	1' 8"	602' 4"	606' 5"	" 11
Shale	17' 3"	703' 0"		July 11
Sandstone	12' 0"	715' 0"		" 12
Shale	8' 2"	723' 2"	726' 8"	" 12
Bony Shale	0' 6"	723' 8"	727' 4"	" 12
Coal & Shale	0' 10"	724' 8"	727' 4"	" 12
Coal	1' 0"	725' 8"	730' 5"	" 12
Shale	1' 0"	726' 8"	732' 5"	" 12
Bony	0' 7"	727' 5"	732' 12"	" 12
Bony Shale	2' 7"	730' 2"	741' 6"	" 12
	0' 5"	730' 7"	742' 3"	" 12
Sandy Shale	6' 1"	736' 8"	748' 4"	" 12
Sandstone	2' 0"	738' 8"	750' 4"	" 12
Sandy shale	2' 6"	741' 4"	752' 10"	" 13
Sandstone	5' 10"	803' 10"		July 14
Shale	6' 0"	809' 10"		" 14
Black shale	8' 8"	818' 0"		" 15
Bony Coal & Shale	1' 8"	819' 8"		" 15
Shale	3' 2"	823' 10"		" 15
Shaly Sandstone	15' 0"	838' 10"		" 16
Sandstone	37' 6"	876' 6"	880' 4"	July 18
Bony Coal	2' 0"	878' 6"	880' 4"	" 18
Shaly Sandstone	0' 8"	880' 4"	882' 2"	" 18
Coal	0' 6"	881' 0"	882' 8"	" 18
Shale	0' 10"	882' 0"	883' 2"	" 18
Coal	0' 10"	883' 0"	884' 2"	" 18
Fire Clay	3' 5"	886' 5"	897' 7"	" 18
	0' 6"	887' 1"	897' 13"	" 18
	3' 0"	890' 1"	892' 13"	" 18
	2' 0"	892' 1"	894' 13"	" 18
Sandstone	8' 6"	900' 7"	921' 1"	" 20
Black shale	3' 4"	904' 1"	907' 5"	" 21
Coal	0' 4"	904' 5"	905' 0"	" 21
Black shale	4' 0"	908' 5"	923' 0"	" 21
Coal	0' 6"	909' 1"	923' 6"	" 21
Shale	3' 4"	912' 5"	932' 10"	" 21
Sandstone	2' 10"	914' 5"	933' 10"	" 21
Shaly Sandstone	10' 0"	924' 5"	934' 6"	July 22
Coal	0' 8"	925' 3"	935' 4"	" 22
Shaly Sandstone	10' 10"	936' 3"	946' 4"	" 22
Fire Clay	1' 0"	937' 3"	947' 4"	" 22
Black shale	3' 0"	940' 3"	943' 10"	" 22
Coal	0' 6"	940' 9"	943' 16"	" 22
Sandstone	2' 6"	941' 5"	946' 2"	" 22
Coal	0' 10"	942' 5"	947' 2"	" 22
Sandstone & Shale	28' 0"	1020' 0"		July 24
Black shale	7' 6"	1027' 6"		" 24
Bony Coal	2' 5"	1030' 1"		" 24
Shale	2' 8"	1032' 6"		" 24
Shale with streaks of coal	5' 0"	1037' 6"		" 24
Shale with streaks of coal	7' 6"	1045' 2"		" 24
Black shale Sandstone	5' 0"	1050' 2"		" 24
Shale	16' 0"	1066' 2"		July 26
Sandy shale	6' 0"	1072' 2"		" 26
Agglomerate Trap	5' 0"	1077' 2"		" 26
Trap Rock	8' 0"	1085' 2"		" 26



CX-113
694

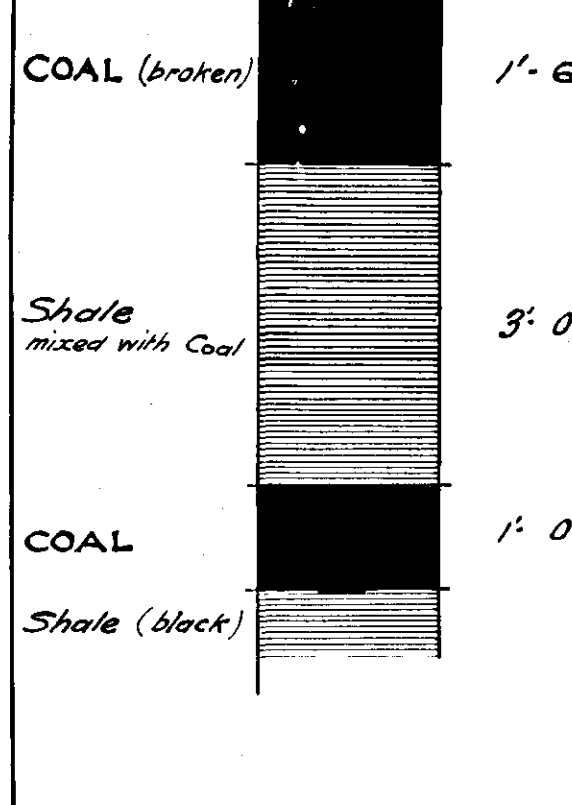
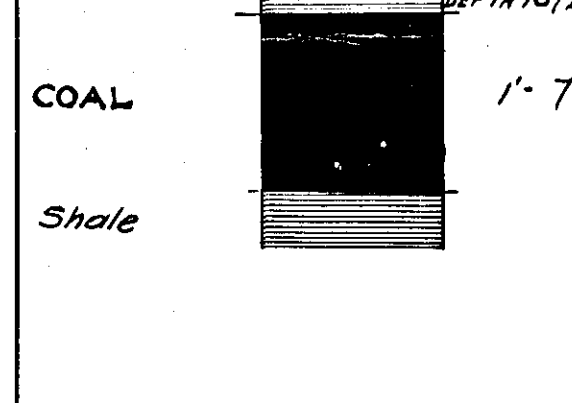
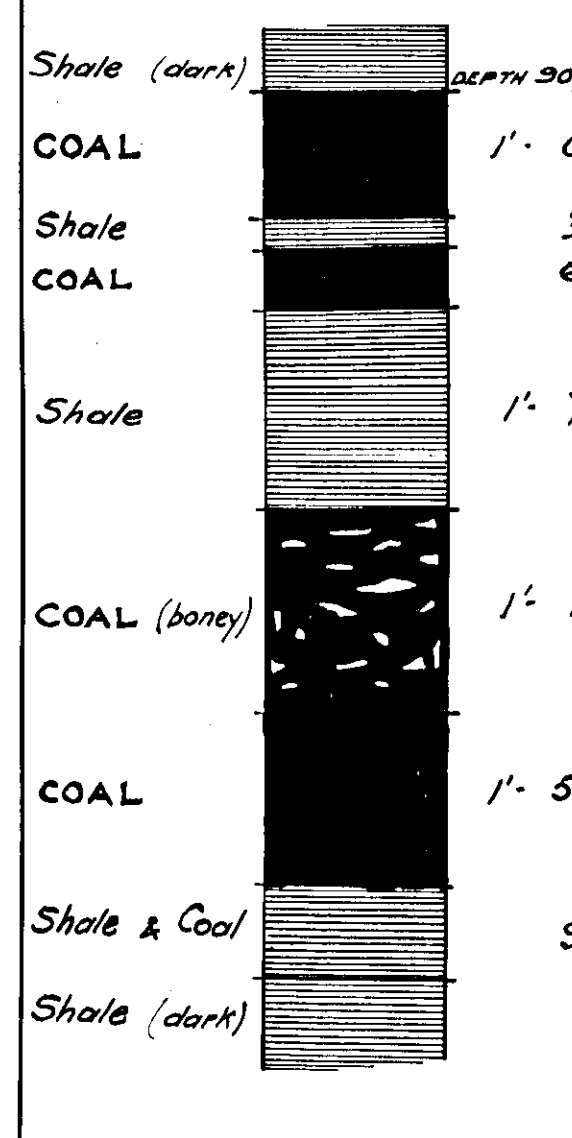
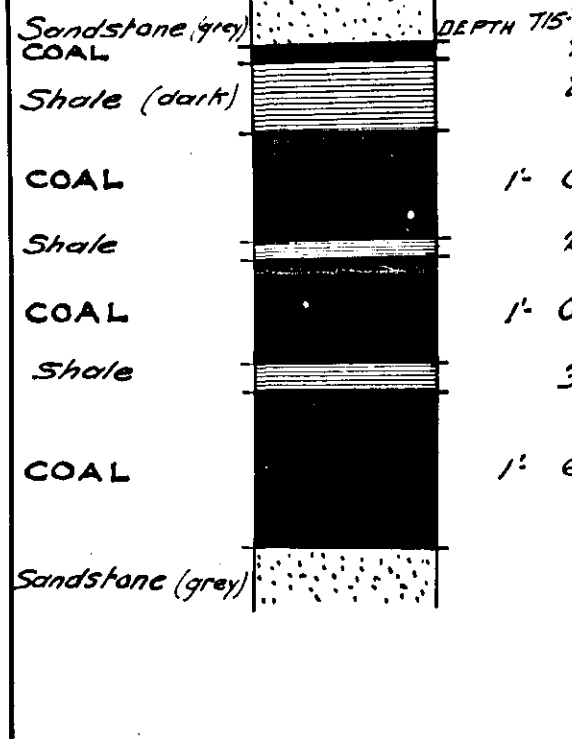
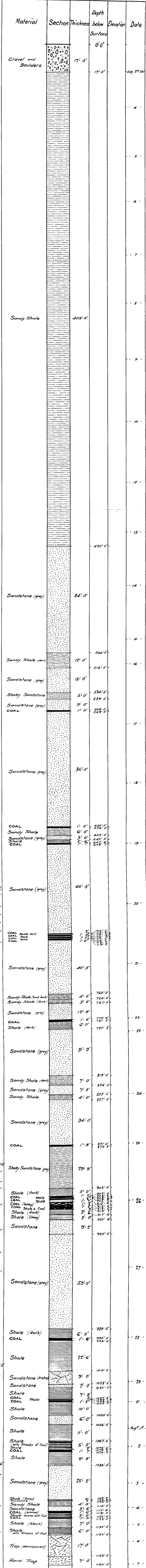
Canadian Collieries (Dunsmuir) Ltd.

PROSPECT HOLE No 113

Comox District

Scale 1" = 20'

MBA



CX-111
694

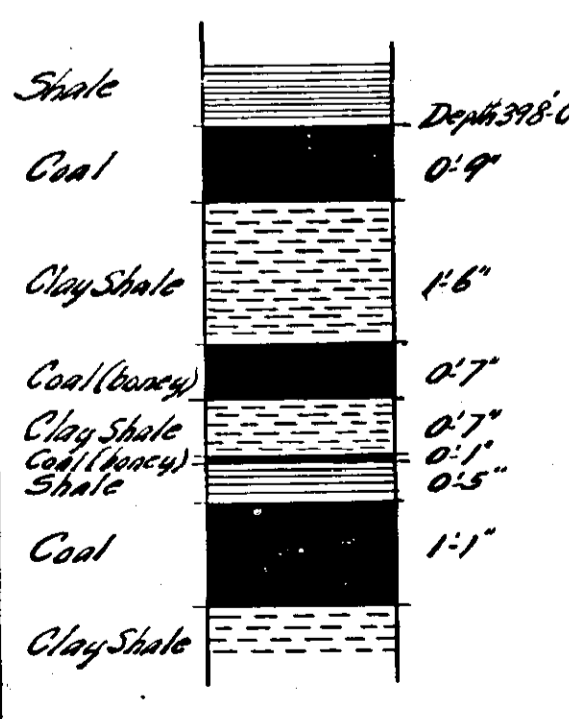
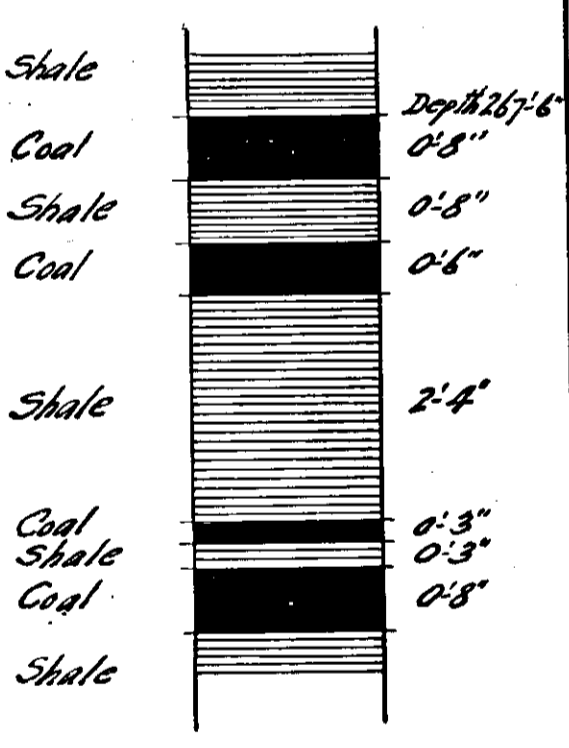
Canadian Collieries (Dunsmuir) Ltd.

PROSPECT HOLE No III

Comox District

Scale 1" = 20'

Material	Section	Thickness	Depth below Surface	Elevation	Date
Gravel & Boulders		28'-0"	0'-0"		June 20 th 1911
			28'-0"		21
					23
					24
					25
Sandstone		84'-0"			26
Shaly Sandstone		4'-0"	112'-0"		
Shale		1'-0"	113'-0"		
Coal (lumpy)		1'-0"	114'-0"		
Sandstone		67'-0"			27
Shale		1'-4"	185'-0"		
Coal (lumpy & mixed with shale)		2'-8"	186'-4"		
Shale		3'-0"	189'-0"		
			192'-0"		28
Sandstone		55'-0"			29
Shale		4'-0"	247'-0"		
			251'-0"		
Sandstone		16'-0"			July 1 st 1911
Shale		0'-6"	267'-0"		
Coal		0'-6"	268'-0"		
Coal		0'-6"	269'-0"		
Shale		0'-6"	270'-0"		
Shale		0'-6"	271'-0"		
Shale		0'-6"	272'-0"		
Shale		1'-0"	273'-0"		
Shale		1'-0"	274'-0"		
Sandstone		26'-2"			2
Sandy Shale		10'-0"	300'-0"		
			310'-0"		5
Sandstone		74'-6"			6
Coal (lumpy) Sandstone		0'-3"	320'-6"		
Coal (lumpy) Shale		0'-3"	321'-0"		
Shale		2'-5"	323'-0"		
Clay Shale		9'-6"	332'-6"		
Shale		0'-6"	342'-0"		
Coal		1'-0"	343'-0"		
Clay Shale		1'-0"	344'-0"		
Coal (lumpy) Clay Shale		0'-6"	345'-0"		
Coal (lumpy) Shale		0'-6"	346'-0"		
Coal		0'-6"	347'-0"		
Shale		22'-0"			7
Shaly Sandstone		5'-0"	425'-0"		
			430'-0"		
Sandstone		23'-0"			8
Clay Shale		3'-0"	453'-0"		
			456'-0"		
Sandstone		8'-0"	464'-0"		July 10 th 1911

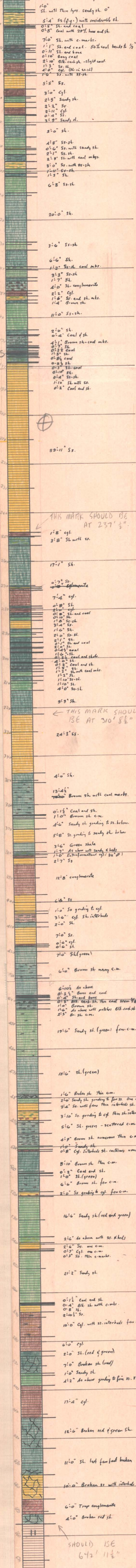


STATE		COMPANY	
COUNTY	FARM	(L1)	WELL NO.
BLOCK	SURVEY		
SEC.			
T.	R.	TOTAL DEPTH	
		CONTRACTOR	
		COMMENCED	
		COMPLETED	
ALTITUDE		REMARKS	
PRODUCTION			

CASING RECORD

0"	10"
15 1/2"	5 1/2"
SHOT	QUARTS
	TWEEN

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



CAMPBELL RIVER

BH. 11

CR-11

STATE

DRILLERS LOG

COMPANY

COUNTY

FARM

WELL NO.

L2

BLOCK

SURVEY

SEC.

T.

R.

TOTAL DEPTH

CONTRACTOR

COMMENCED

COMPLETED

REMARKS

ALTITUDE

PRODUCTION

CASING RECORD

10"

8 1/2"

6 1/2"

5"

00694

SHOT

QUARTS

BETWEEN

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa

10'-6" Gravel, etc.

1'-6" Sh.
0'-6" Ss. with sh. streaks
0'-4" Coal with sh.
0'-8" Soft sh.
0'-3" Sh. and coal

10'-3" Broken sh.

9'-0" Sh.

5'-4" Ss. with sh. streaks
1'-3" Coal

6'-11" Sh.

0'-6" Coal and sh.
0'-3" Coal
0'-3" Coal and sh.
0'-6" Sh.
1'-2" Sh. and coal
0'-10" Sh. with coal mkg.
1'-6" Sh. and ss. (speckled)
2'-0" Conglomerate

13'-4" Broken ss.

3'-0" Fine conglomerate.
1'-0" Ss. (speckled)
2'-0" Fine ss.
3'-6" Fine cgl.

6'-6" Broken shale (red)

6'-6" Broken shale

17'-0" Sandy sh.

15'-0" Sh. (red)

15'-0" Sandy sh.

3'-0" Dark sh. with coal mkg.
0'-6" Sh. and coal
2'-6" Shale.
3'-0" Broken sh.
2'-0" Dark sh. with pebbles
1'-0" Conglomerate
2'-0" Fine ss.

14'-0" Broken sh. with bands of Sr.

2'-6" Shale
0'-4" Coal
4'-6" Broken shale
0'-4" Shale and coal
1'-5" Broken shale with coal mkg.
0'-4" Shale and coal
0'-4" Coal
2'-3" Brown sh. with coal mkg.

74'-0" Ss.

3'-0" Sh. with ss. markings.

18'-0" Sh.

1'-0" Ss.

9'-0" Ss. with sh. markings and pebbles.

1'-0" Sh. with coal markings

10'-0" Sandy shale.

11'-0" Shale with scattered coal mkg.

19'-0" Shale ✓

25'-0" Ss.

4'-0" Shale.

13'-0" Sh. with scattered coal mkg.

11'-0" Sandy shale

16'-0" Shale

8'-0" Ss.

5'-0" Ss. with coal mkg.

4'-0" Conglomerate
2'-0" Shale and ss.

8'-0" Ss.

6'-0" Sandy Shale.

19'-0" Shale with scattered coal mkg.

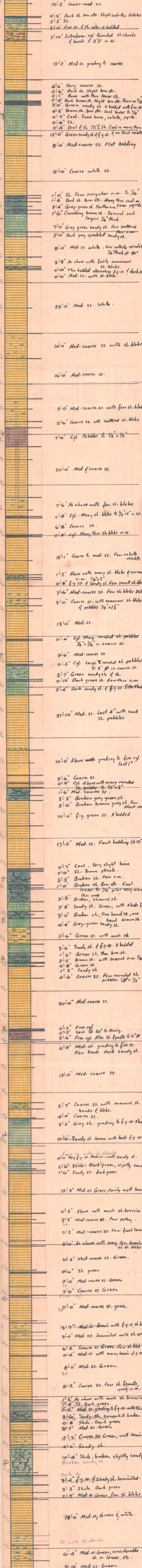
12

STATE		COMPANY	
COUNTY	FARM	WELL NO.	
BLOCK	SURVEY	(L3)	
SEC.			
T.	R.	TOTAL DEPTH	
CONTRACTOR			
COMMENCED			
COMPLETED			
REMARKS			
ALTITUDE			
PRODUCTION			

CASING RECORD

10"	
8 1/4"	
6 3/4"	
5 1/2"	
SHOT	QUARTS BETWEEN

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



(L38
Cont)

7'-8" Coarse ss.

Med-
9'-8" Coarse ss.

1'-1" Green sandy sl.
0'-9" Dark brn. sh. Very thin con.
1'-6" Dark green fg. ss. One c.m. $\frac{3}{8}$ " x $\frac{1}{2}$ "
2'-0" Dark green sh.
1'-0" Grey sh.
2'-6" Green fg. ss. & sandy sl.
3'-10" Green fg. ss.

5'-0" Sh. grey, green
1'-4" Med. ss.
0'-5" Sh. green, slightly sandy

10'-4" Med. ss. white & green. Few sh. frags
0'-1" Blk. sh. with coal layers $\frac{1}{8}$ "

11'-1" Med. ss. Few pieces sh. breccia.

3'-4" Sh. green
1'-3" Med. fine ss. Few sh. lenses
2'-9" Sh. green

2'-9" Sandy sh. dark, laminated.
0'-2" fg. ss. green
3'-0" Sandy sh. grey-green
2'-10" fg. ss. dark green
1'-8" Dark sandy sh. & fg. ss. laminated.
2'-0" Med. ss. green

20'-2" Med. coarse ss. green, some yellow tinge

1'-0" Intraformational cgl.
0'-10" Very fg. ss. green.
3'-8" Sh. dark grey - slight reddish cast.
3'-1" Sandy sh. green-grey
1'-0" fg. ss. green
3'-2" Med. ss. green, with lamin. dark sandy sh.
0'-7" Med. coarse ss. green
2'-8" fg. ss. & lamin. sandy sh. Broken
1'-10" Med. ss. green - Several lamin. sh. blebs.

16'-4" Med. coarse ss. white & green
Few lamin. of sh. specks, thin con.

1'-10" Intra. cgl. sh. lenses in med. ss.
1'-8" Med. fine ss. grading to med. ss. green.
Few large sh. fragments.

21'-11" Coarse ss. white & yellow cast.
Few crystalline & sh. pebbles to $\frac{1}{2}$ " x 1"

7'-0" Med. ss. Faintly yellow
Few tiny pebbles last 6"

2'-8" fg. ss. & dark sandy sh. laminated.
2'-11" Dark sh. Few plant rem.
0'-6" Sh. reddish
1'-3" Sandy sh. Red.
2'-3" fg. ss. dark green grading to sh.

6'-9" Red sandy sh. & shale.
2'-1" fg. ss. green. Thinly laminated.
1'-4" Med. ss. grading through yellow fg. ss. to green
1'-3" Sandy sh. green.
5'-0" Sh. grey, faintly reddish.
1'-7" As above.
2'-5" Sandy sh. speckled, red.

5'-8" Med. ss. colored red by intermixed sh.
1'-0" cgl. 2" x 8" pebbles
3'-0" Med. ss. gritty.

12'-9" Coarse cgl. - Pebbles & talline to 4" x 8"

2'-2" Med. ss. gritty, white.
0'-4" fg. ss. with irregular con.
0'-3" Broken sh.
0'-10" Coal
0'-6" Coal, slightly bony
0'-3" Bone
0'-8" Sh. brown str. with thin con.
23'
2'-7" Sh. with thin yellow sandy lamin.

0'-2" Sh. and coal
0'-7" Coal
0'-5" Sh. and coal
5'-4" Sh. blotchy, few c.m. $\frac{1}{2}$ " thick.
3'-10" Coal
0'-2" Shale 4" coal.
1'-6" Shale & coal
2'-5" Coal - dirty.
0'-8" Shale
0'-3" Coal
0'-3" Shale & coal markings
2'-6" Shale
1'-8" Coal
0'-8" Brown shale & coal markings
1'-0" shale
0'-8" Coal
0'-11" Bony shale
6'-0" Shale

2'-0" Coal
6'-0" Shale & coal mbgs.
0'-6" Coal
2'-6" Shale & coal mbgs.
0'-8" Shale & 20% coal in thin lenses
0'-5" Coal
6'-8" Sh. with coal mbgs
0'-4" Blk carb. sh.
1'-5" Sh. with thin con.

21'-3" Sandy sh. with lamin. fg. ss.

0'-9" Sh. with ss. streaks. One c.m. $\frac{1}{2}$ " thick
3'-6" ss. med. gr. white, with sh. lamin.
1'-6" Sandy sh. with con. to 1" thick.
5'-0" Sandy sh. Grey

8'-6" Sandy sh. Reddish tinge.

0'-7" Med. ss. with intermixed sh.
2'-2" Sh. soft, broken. Grey, red, blue.
0'-6" Med. ss. yellow.

5'-0" Sh. Red, somewhat sandy
4'-4" Sh. & sandy sh. Grey. Soft, broken

9'-10" Sh. & sandy sh. Red.

1'-5" Sandy sh. olivaceous. Dark red
0'-10" Sandy sh. Olive green.
2'-10" Gritty ss. sandy sh. & fine cgl. lamin.
2'-6" Sandy sh. Reddish grey.
6'-0" cgl. fine, gritty, with bands dark fg. ss.

4'-6" Trap cgl. Boulders trap with few granitic fragments.

5'-0" Altered trap. Soft, broken

10'-6" Altered trap 99% chlorite

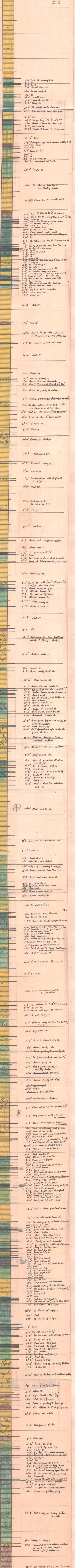
1'-6" Trap. unaltered.

STATE COMPANY FARM WELL NO. COUNTY FARM SURVEY 14 BLOCK SURVEY SEC. T. R. TOTAL DEPTH CONTRACTOR COMMENCED COMPLETED REMARKS ALTITUDE PRODUCTION

CASING RECORD

10" 8 1/4" 6 3/4" 5 1/2" SHOT QUARTS BETWEEN

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



32'0" Cyl. pebbles & talus rx. fairly well rounded across 1'0" in diam. coarse ss. Poor sorting.

14 STATE

COMPANY

COUNTY FARM WELL NO.

BLOCK SURVEY (45)

SEC.

T. R. TOTAL DEPTH

CONTRACTOR

COMMENCED

COMPLETED

REMARKS

ALTITUDE

PRODUCTION

CASING RECORD

10"

8 1/4"

6 3/4"

5 1/4"

SHOT QUARTS BETWEEN

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa

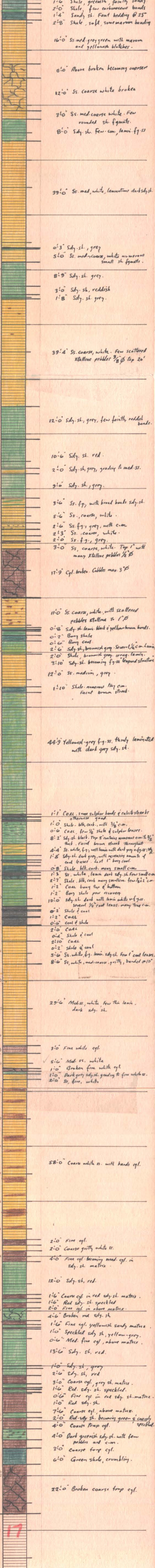


CAMPBELL RIVER

STATE		B. H. 17	
COUNTY		COMPANY CR-17	
BLOCK		FARM	WELL NO.
SEC.		SURVEY L6	
T.	R.	TOTAL DEPTH	
ALTIMITUDE		CONTRACTOR	
PRODUCTION		COMMENCED	
		COMPLETED	
		REMARKS	

CASING RECORD

10"	
8 1/4"	
6 1/2"	
15 1/2"	
SHOT	QUARTS
	BETWEEN



17

CAMPBELL RIVER

B.H-18

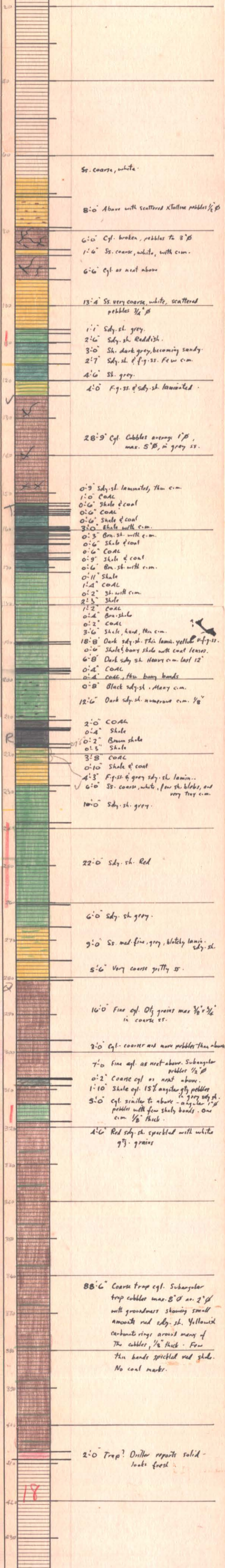
CR-18

STATE		COMPANY	
COUNTY		FARM	WELL NO.
BLOCK		SURVEY	(L7)
SEC.			
T.	R.	TOTAL DEPTH	
CONTRACTOR			
COMMENCED			
COMPLETED			
REMARKS			
ALTITUDE			
PRODUCTION			

CASING RECORD

5 1/2"	10"
8 1/4"	
6 5/8"	
5 1/2"	
SHOT	QUARTS BETWEEN

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



CAMPBELL RIVER

B.H. 19

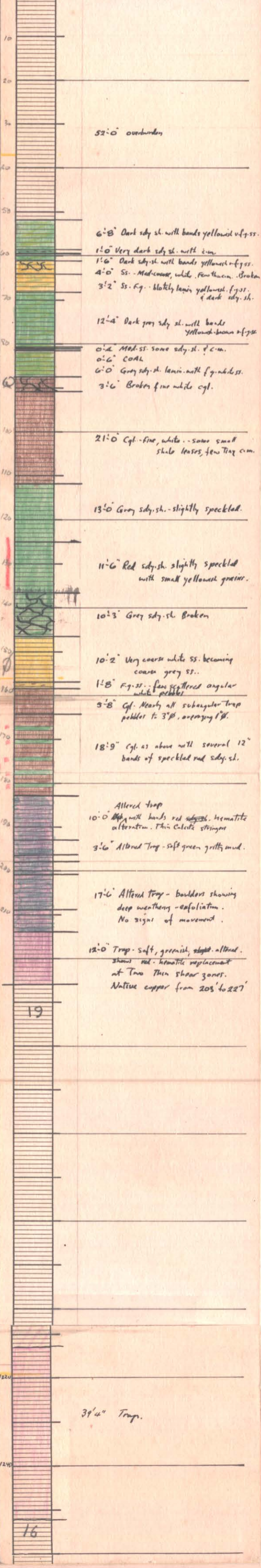
CR-19

STATE		COMPANY
COUNTY	FARM	WELL NO.
BLOCK	SURVEY (48)	
SEC.		
T.	R.	TOTAL DEPTH
		CONTRACTOR
		COMMENCED
		COMPLETED
		REMARKS
ALTITUDE		
PRODUCTION		

CASING RECORD

10"		
8 3/4"		
6 3/4"		
5 1/8"		
5 1/2"		
SHOT	QUARTS	BETWEEN

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa



CAMPBELL RIVER

BH-20

CR-20

STATE

COMPANY

COUNTY

FARM

WELL NO.

BLOCK

SURVEY

49

SEC.

T.

R.

TOTAL DEPTH

CONTRACTOR

COMMENCED

COMPLETED

REMARKS

ALTITUDE

PRODUCTION

CASING RECORD

00694

10"

8 1/4"

6 3/4"

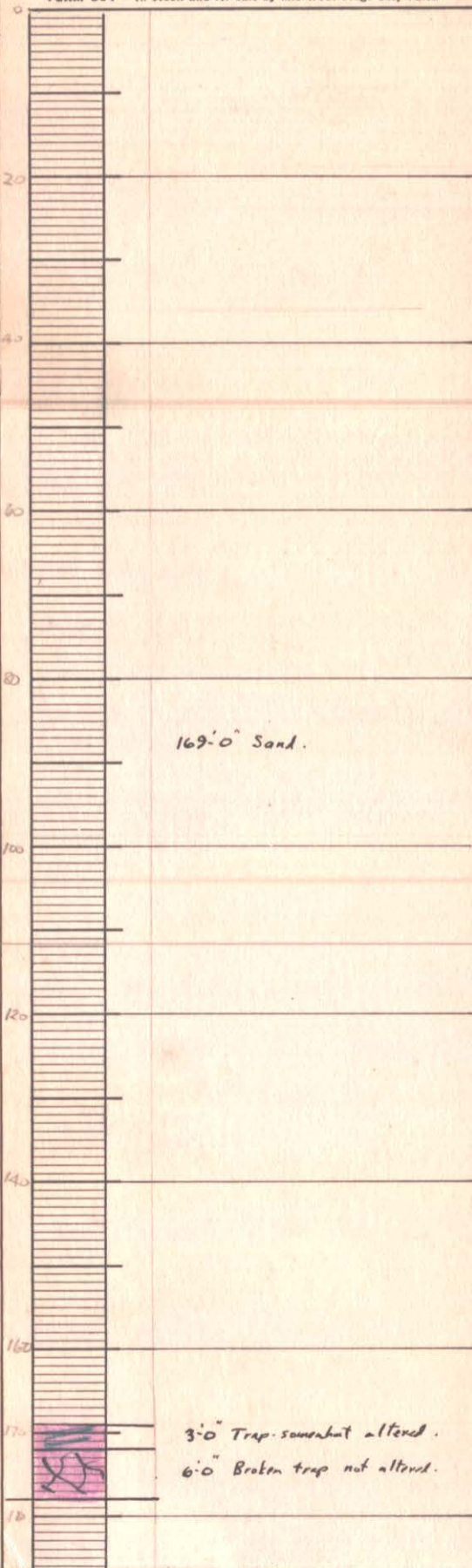
5 1/2"

SHOT

QUARTS

BETWEEN

FORM 394 - In stock and for sale by Mid-West Prtg. Co., Tulsa

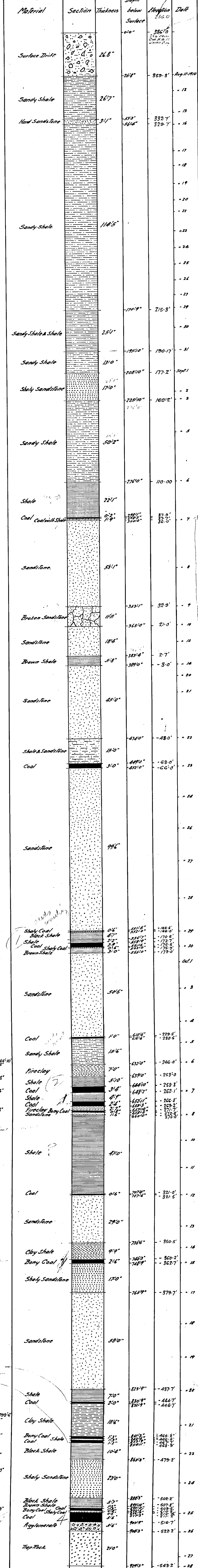


(L1) CX-101
694

Canadian Collieries (Dunsmuir) Ltd.
PROSPECT HOLE NO. 101
Comox District

Use Elev 286.0
SCALE 1 IN = 20 FT.

Elevation Datum = 100 ft. below H.W.M.



* ANALYSIS

Moisture	1.2%
Fixed Carbon	53.13
Ash	17.79
Sulphur	1.1%
Caking Quality	good

Strongly fissile in sh. & 33' but blew off in sh. shale.

33' 2" Sandstone weathered - 3.5' of top of 4' below 33'

30' Sandstone

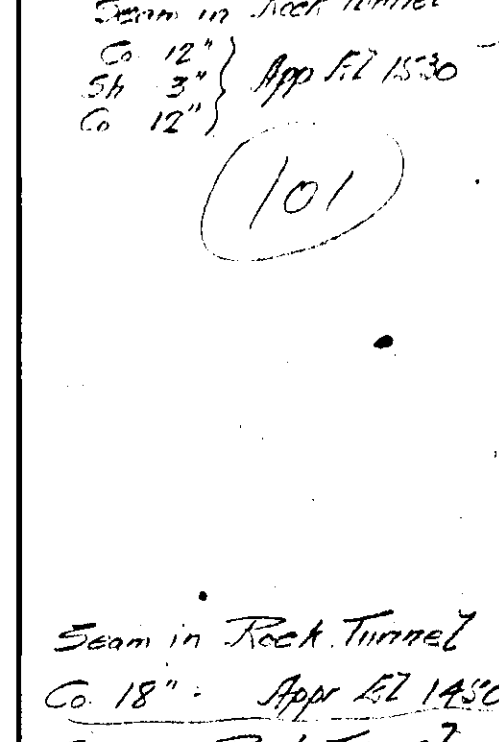
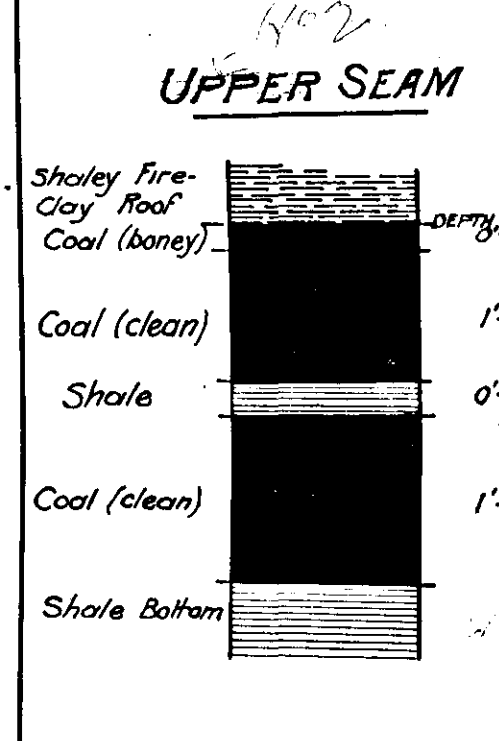
38' 5" Brown sh. & 33' 33' 1" - Dept. of Geol. & Mines

Analysis - Upper Seam

Moisture	1.2%
Volatiles Matter	32.5
Fixed Carbon	54.9
Ash	11.4
Sulphur	3.0
Caking Quality	good

Analysis - Lower Seam

Volatiles Matter	29.08%
Fixed Carbon	53.13
Ash	17.79
Sulphur	1.1%
Cake Firm, fair quality (washed Coal)	100.00

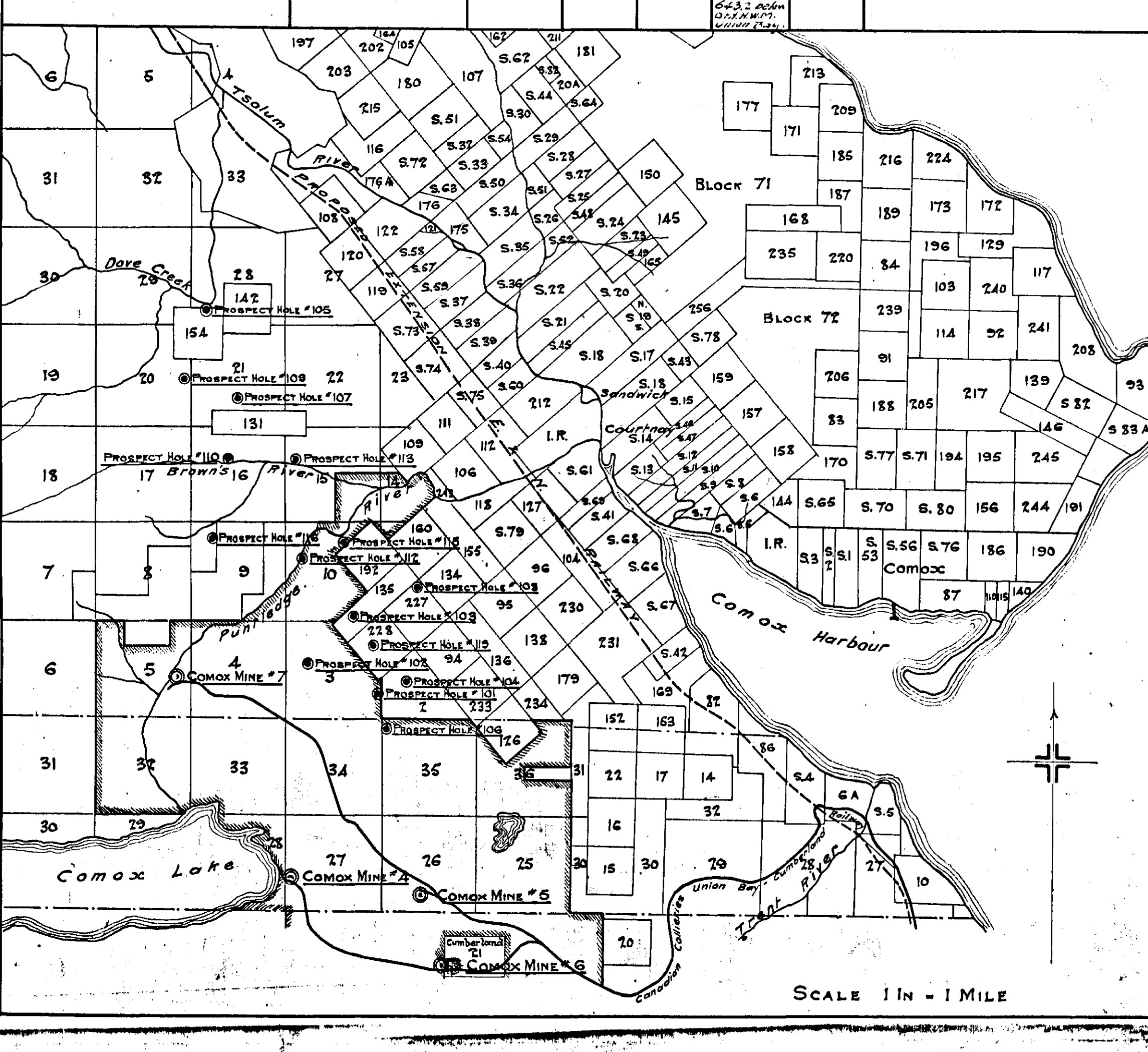


Seam in Rock Tunnel Co 18" App 17 1920
Seam in Rock Tunnel 27" App 17 1920

Seam in Rock Tunnel Co 12" Sh 3" App 17 1920
Co 12"

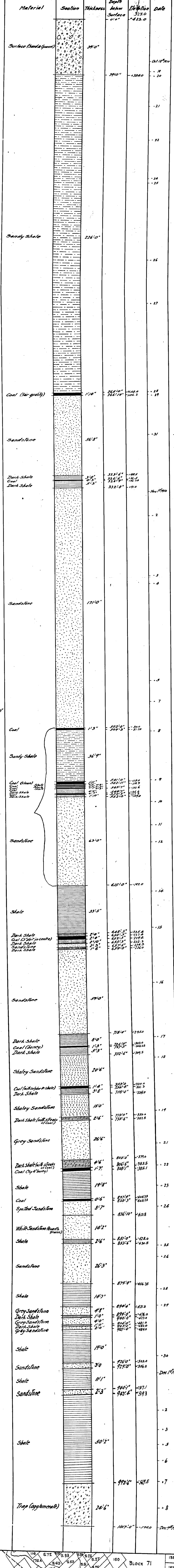
(101)

Seam in Rock Tunnel Co 18" App 17 1920
Seam in Rock Tunnel 27" App 17 1920

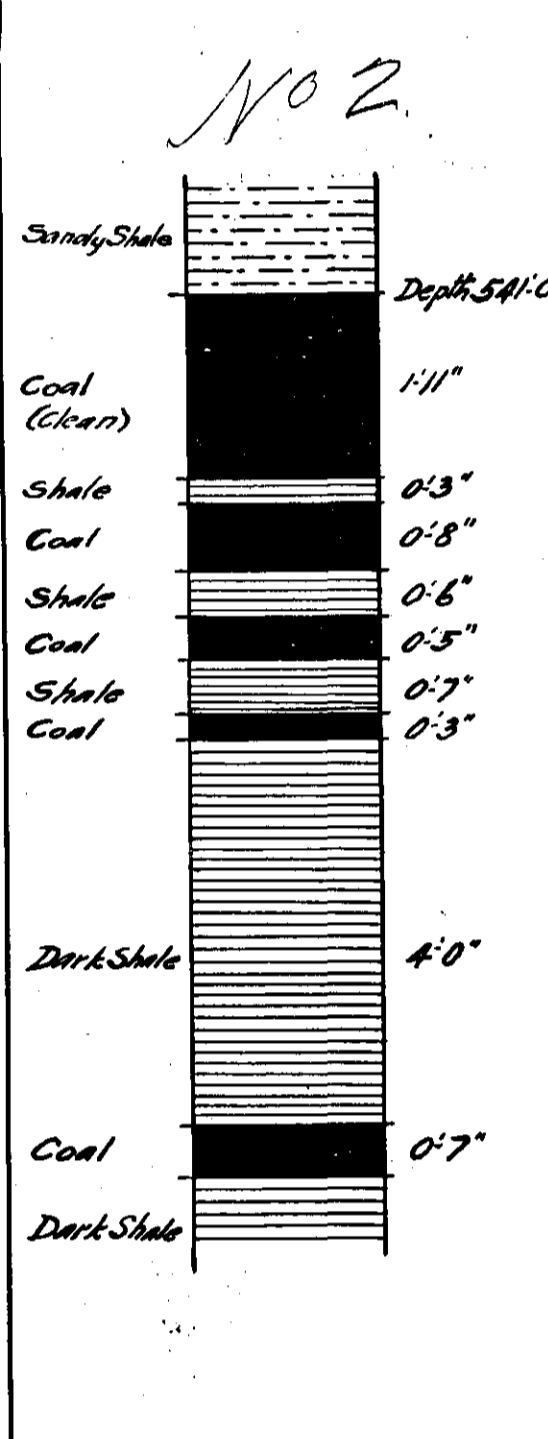


CX-102
 694
 (L2)

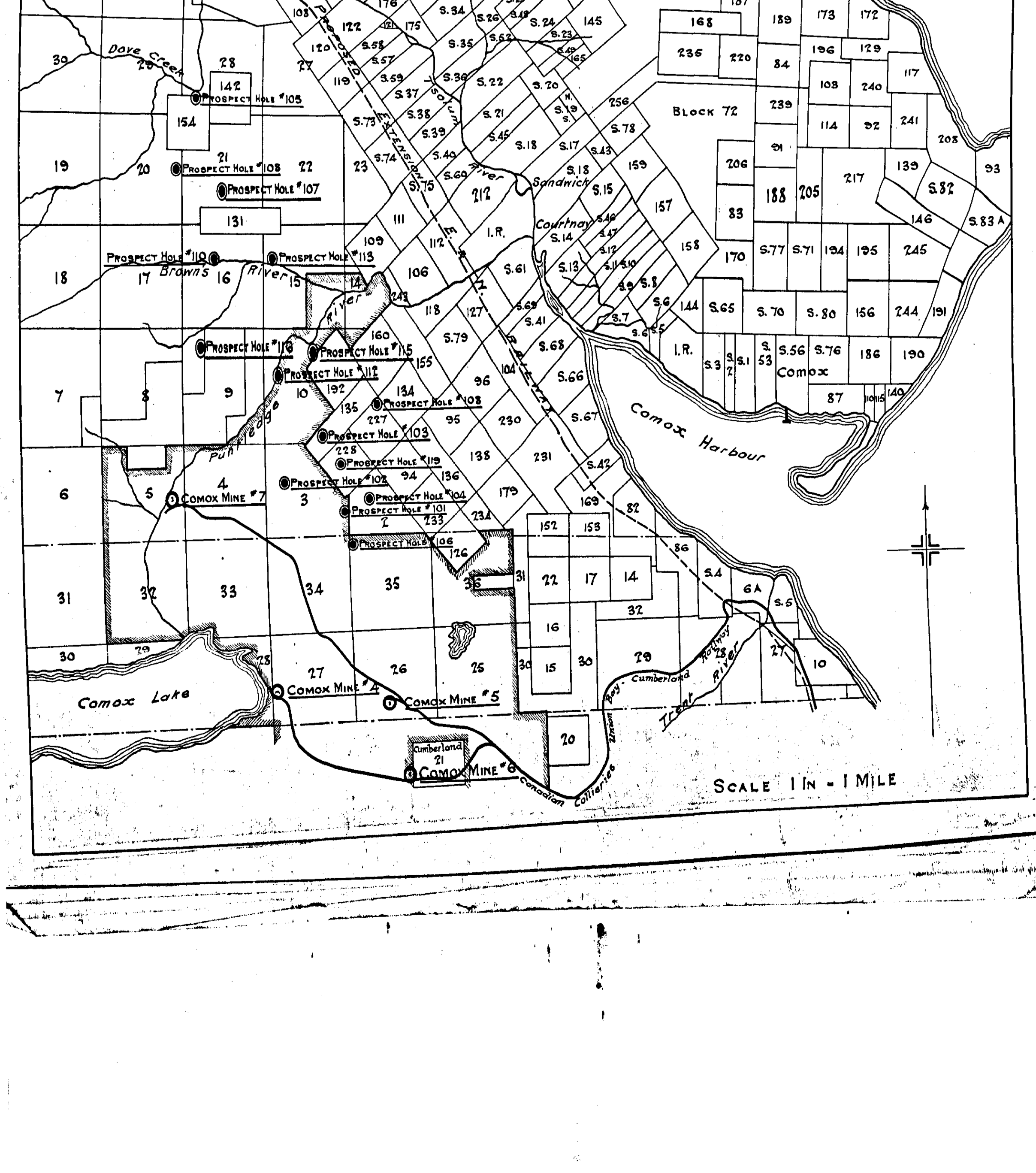
Use File 323.0



Use to check logs against the section of log only
 log as measured - see log book



102

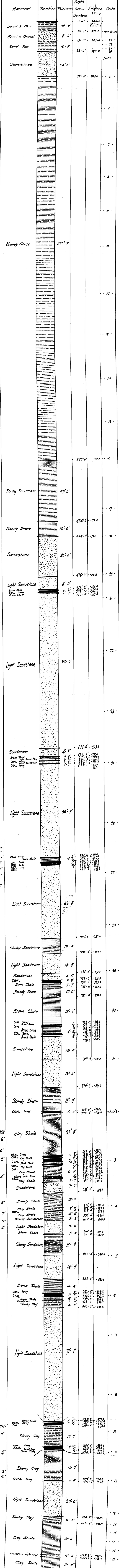


SCALE 1 IN = 1 MILE

Canadian Collieries (Dunsmuir) Ltd.
PROSPECT HOLE No 104

Comox District
Scale 1" = 20'

Use Ref 260.0



CX-105
 694
 (15)

Canadian Collieries (Dunsmuir) Ltd.
 PROSPECT HOLE N° 105

Comox District

Scale 1" = 20'

Material	Section	Thickness	Depth below Surface	Elevation	Date
			0' 0"	444.0' 343.0' 101.0' (100' 8 1/2")	
Surface Gravel		89' 0"			1907 8 20
			89' 0"	355' 0"	14
Sandstone		7' 0"	96' 0"	348' 0"	15
					16
					17
					18
					20
					21
Sandy Shale		381' 0"			22
					23
					24
					25
					27
Sandstone (grey)		6' 0"	477' 0"	339' 0"	28
Sandy Shale		3' 0"	483' 0"	339' 0"	
Sandstone (coarse)		2' 0"	488' 0"	344' 0"	
Sandy Shale		29' 0"			
Sandstone (grey)		6' 0"	517' 0"	378' 0"	
Sandy Shale		17' 0"	523' 0"	379' 0"	Nov 18
			540' 0"	396' 0"	
Sandstone (grey)		50' 0"			2
			590' 0"	416' 0"	
Sandy Shale		36' 0"			3
			626' 0"	452' 0"	
Sandstone (grey)		13' 5"			4
COAL (bony)		2' 7"	633' 5"	455' 4"	
COAL (bony)		2' 3"	642' 0"	455' 0"	
COAL (bony)		2' 9"	644' 3"	455' 2"	
COAL (bony)		2' 4"	647' 4"	455' 7"	
COAL (bony)		2' 3"	650' 0"	456' 0"	
Sandstone (grey)		68' 0"			7
			718' 0"	474' 0"	
COAL (bony)		2' 3"	721' 0"	477' 0"	
COAL (bony)		2' 6"	724' 0"	479' 0"	
COAL (bony)		2' 6"	724' 0"	479' 0"	
Sandstone (light grey)		54' 6"			9
			779' 0"	485' 0"	
COAL (bony)		2' 10"	781' 10"	487' 8"	
COAL (bony)		1' 8"	783' 6"	488' 5"	
Sandstone (grey)		17' 10"			
			801' 4"	497' 8"	10
Sandstone		41' 5"			11
			842' 5"	538' 7"	
Brown Shale		3'	845' 5"	539' 0"	
Sandstone		25' 2"			
			868' 2"	564' 2"	13
COAL (bony)		5' 1"	873' 3"	569' 3"	
COAL (bony)		1' 5"	874' 8"	570' 7"	
Brown Shale		13' 4"			
			888' 0"	584' 0"	14
Sandstone		10' 0"			
COAL (bony)		1' 5"	898' 0"	585' 5"	
COAL (bony)		2' 0"	900' 0"	587' 0"	
Sandy Sandstone		2' 0"	902' 0"	589' 0"	
Sandstone		8' 0"	910' 0"	597' 0"	
COAL (bony)		1' 5"	911' 5"	598' 5"	15
COAL (bony)		1' 5"	913' 0"	599' 0"	
Sandstone		21' 3"			
			946' 0"	632' 0"	16
COAL (bony)		4' 8"	950' 8"	636' 8"	
COAL (bony)		1' 10"	951' 10"	637' 10"	
COAL (bony)		2' 9"	953' 9"	639' 9"	
COAL (bony)		4' 1"	957' 1"	643' 1"	
			961' 0"	647' 0"	17
Sandstone		45' 0"			
			1006' 0"	692' 0"	18
COAL (bony)		1' 0"	1007' 0"	693' 0"	
COAL (bony)		1' 0"	1008' 0"	694' 0"	
COAL (bony)		1' 0"	1009' 0"	695' 0"	
Brown Shale		10' 8"			
COAL (bony)		1' 5"	1020' 5"	706' 5"	
COAL (bony)		1' 5"	1022' 0"	708' 0"	
Brown Shale		10' 1"			
			1032' 0"	718' 0"	20
Sandstone (grey)		18' 0"			
			1050' 0"	736' 0"	21
COAL		1' 2"	1051' 2"	737' 2"	
Shale		10' 8"			
			1061' 10"	747' 8"	
Sandstone (grey)		25' 0"			22
			1086' 10"	772' 8"	
Sandstone		4' 0"	1090' 10"	776' 8"	
Sandy Shale		2' 0"	1092' 10"	778' 8"	
COAL (bony)		2' 8"	1095' 6"	781' 4"	23
Sandy Shale		11' 4"			
			1106' 10"	792' 8"	
COAL (bony)		6' 8"	1113' 4"	799' 2"	
COAL (bony)		4' 10"	1118' 10"	804' 8"	24
Sandstone (grey)		13' 0"			25
Shale		3' 0"	1131' 10"	817' 8"	
Shale			1134' 10"	820' 8"	
Conglomerate (soft)		13' 0"			27
			1147' 10"	833' 8"	
Trap Rock		32' 0"			28
			1179' 10"	865' 8"	29
				830' 8" (828' 10")	

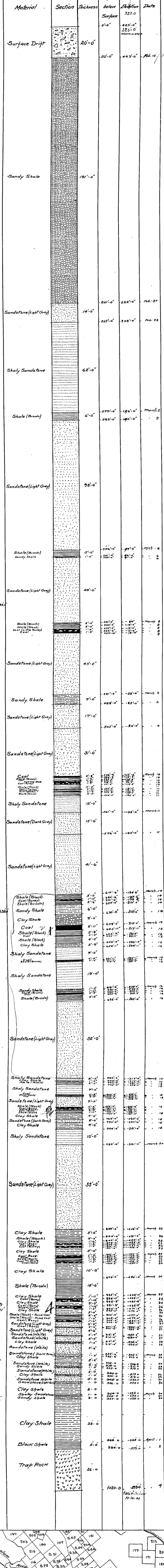
Canadian Collieries (Dunsmuir) Ltd.

PROSPECT HOLE NO. 106

Cornox District

SCALE 1/4" = 20 FT.

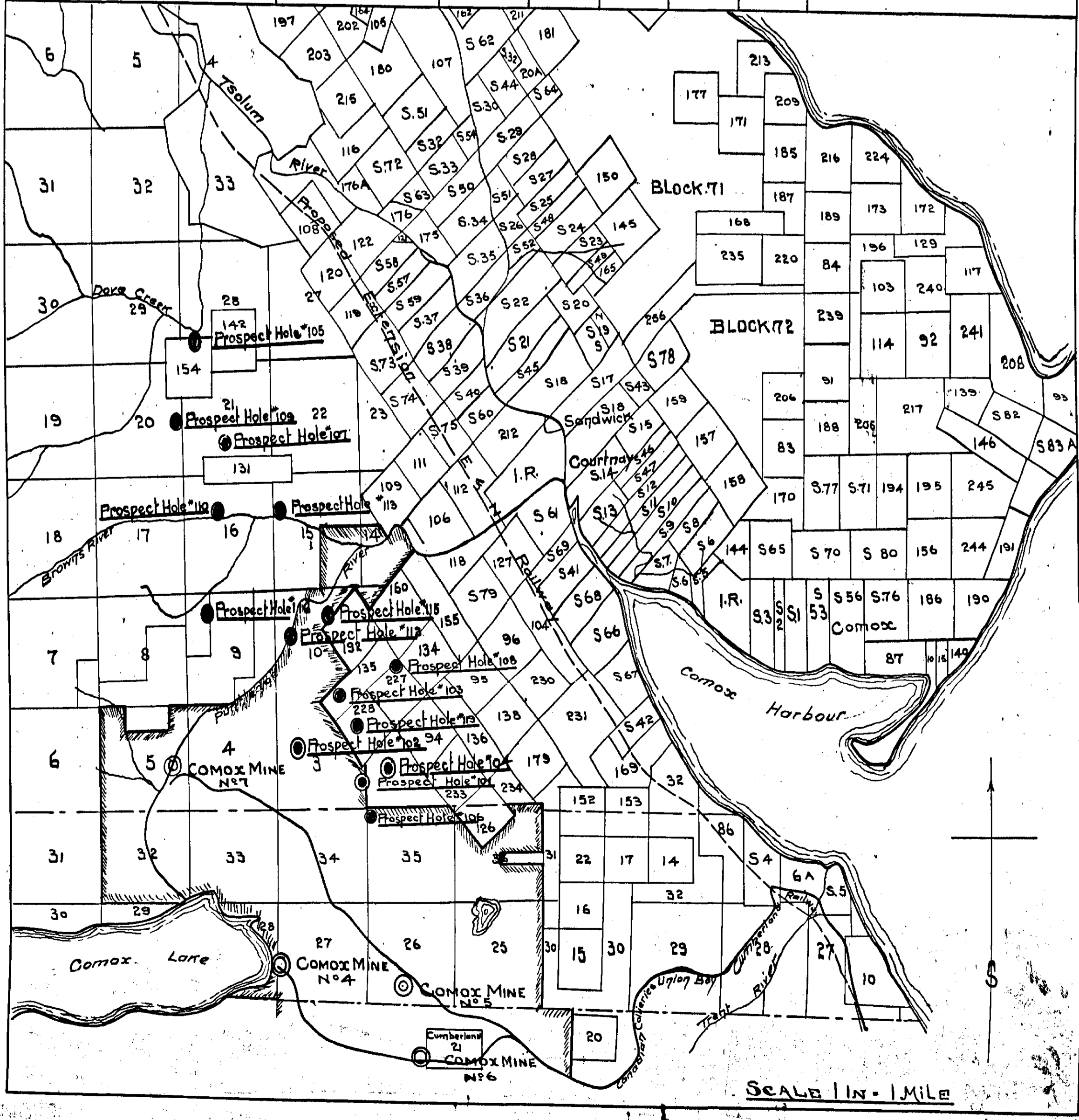
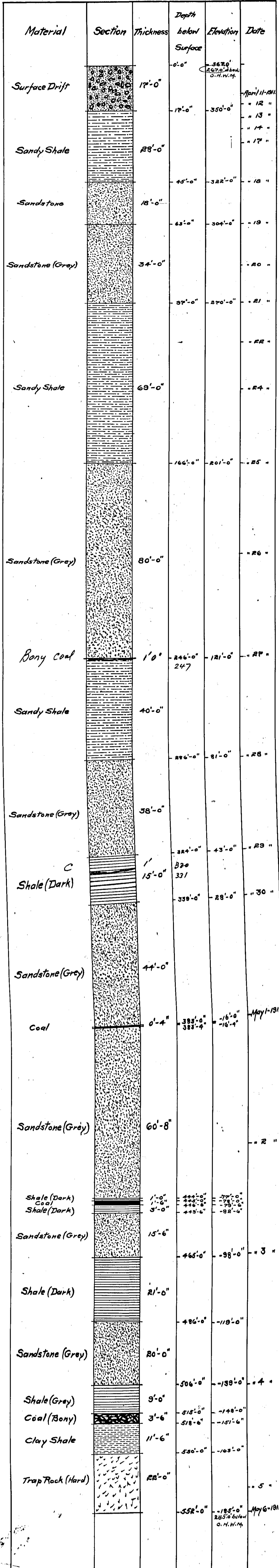
Use Alex 323-0



CX-107
694
L7

Canadian Collieries (Dunsmuir) Ltd.
PROSPECT HOLE NO. 107
Comox District.

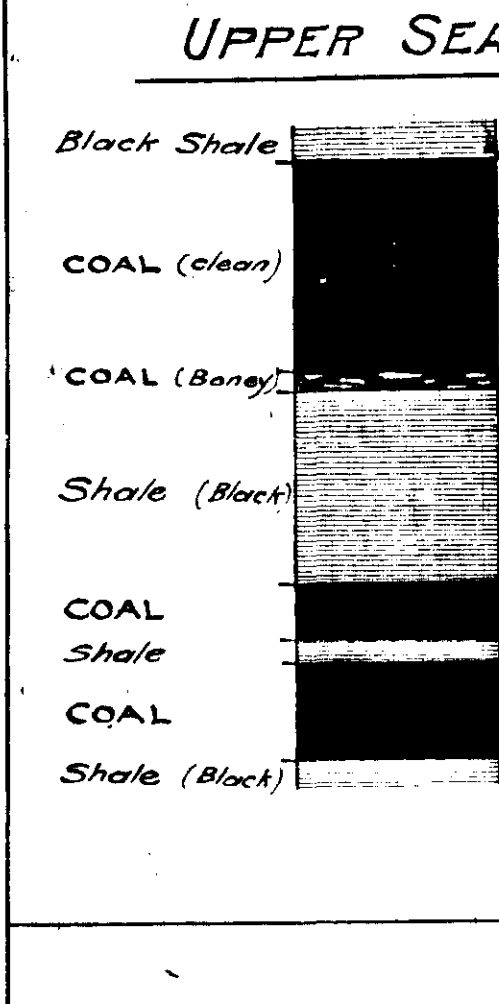
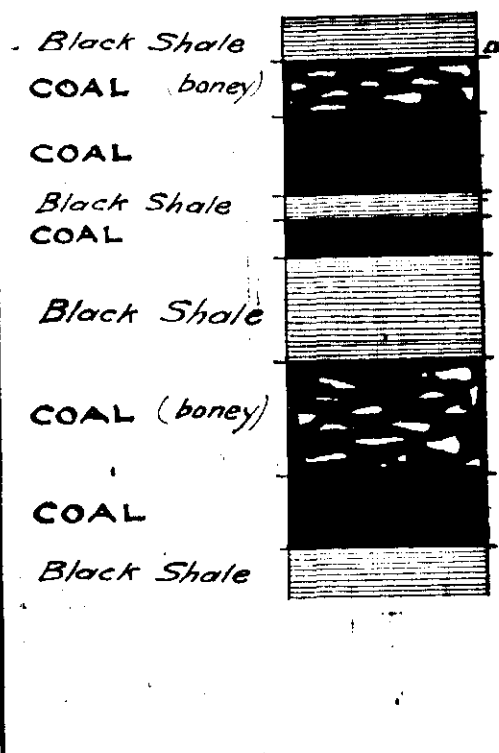
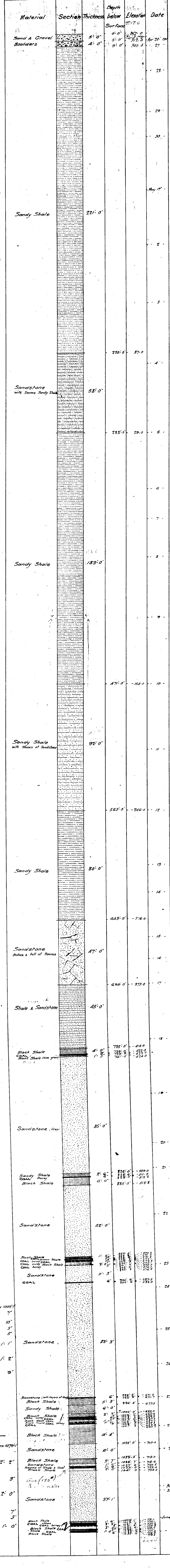
SCALE 1 IN. = 20 FT.



CX-108
694
L8

Canadian Collieries (Dunsmuir) Ltd.
PROSPECT HOLE No 108
Comox District

Scale 1" = 20'



Analysis Upper Seam

Moisture	77.0
Volatile Matter	34.30
Fixed Carbon	57.86
Ash	7.84
Sulphur	2.11

CX-109

694


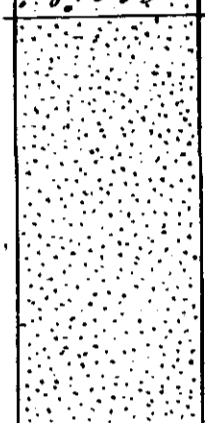


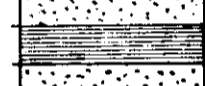
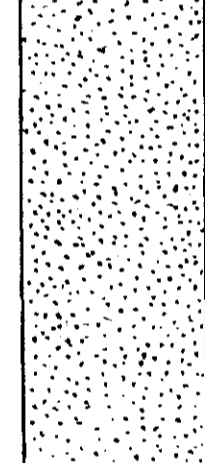
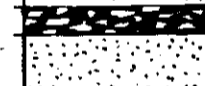
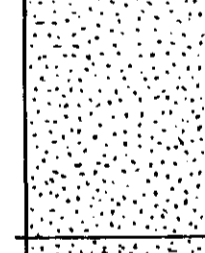


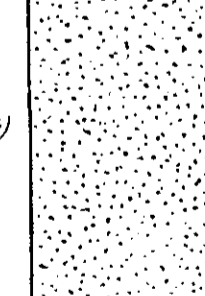



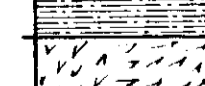
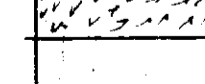
(79)

Canadian Collieries (Dunsmuir) Ltd.

PROSPECT HOLE N^o 109

Comox District

Scale 1" = 20'

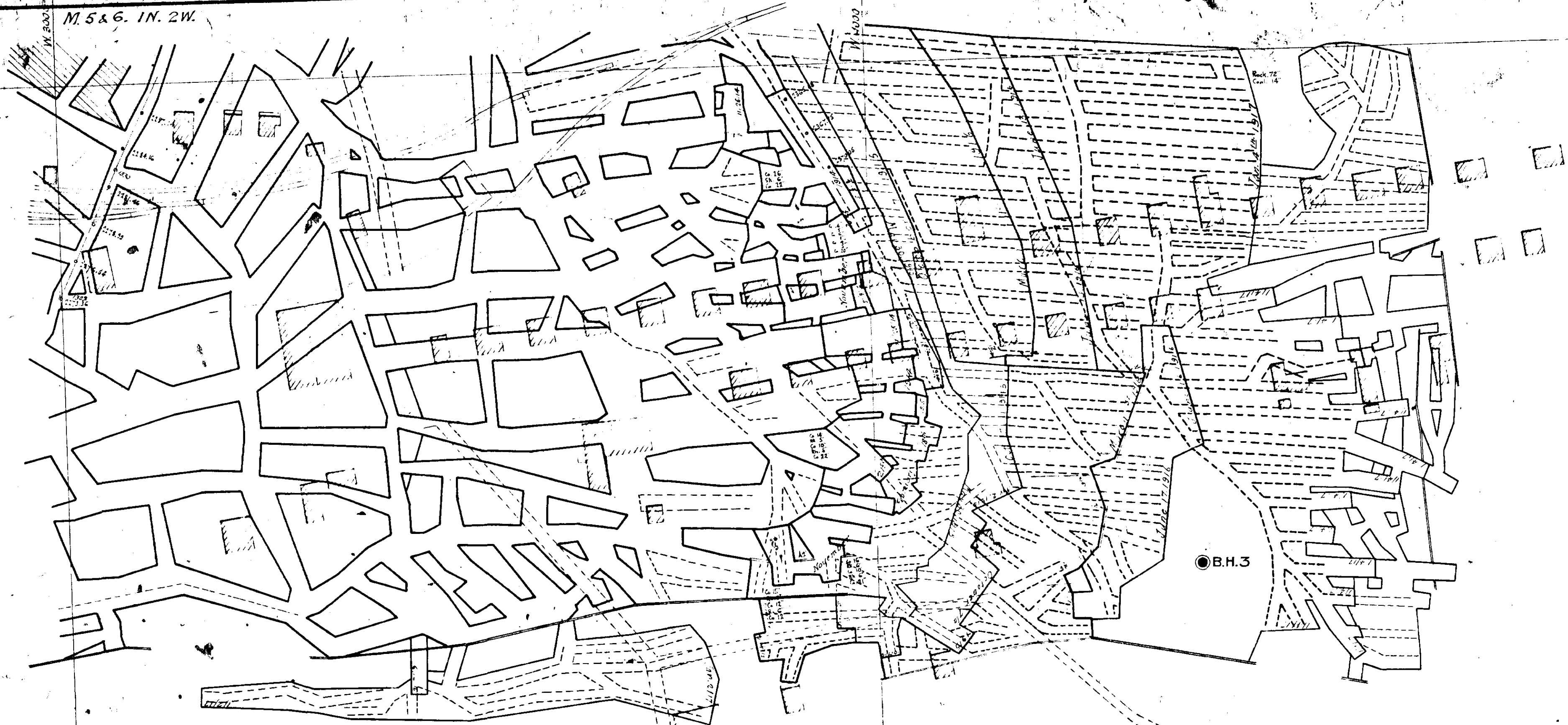
Material	Section	Thickness	Depth below Surface	Elevation	Date
			0' 0"	376.0'	
Surface Gravel		36' 0"	36' 0"	340.0'	
Sandstone (Light Grey)		43' 0"			May 19 th 1911
Sandstone (Staley)		9' 0"	79' 0"	297.0'	" 20 "
Sandstone (Light Grey)		15' 0"	88' 0"	288.0'	" 21 "
Black Shale		4' 0"	103' 0"	273.0'	
			107' 0"	269.0'	
Sandstone (Light Grey)		51' 0"			" 22 "
Coal (boney) 1' 11" recovered		3' 0"	158' 0"	218.0'	
			161' 0"	215.0'	" 23 "
Sandstone (Light Grey)		30' 0"			
Sandstone (Dark Grey)		7' 0"	191' 0"	185.0'	
Shale (Brown)		18' 0"	198' 0"	178.0'	" 25 "
			216' 0"	160.0'	" 26 "
Sandstone (Light)		34' 6"			" 28 "
Shale (Brown)		7' 6"	250' 6"	125.5'	
shale (Sandy)		2' 0"	258' 0"	118.0'	" 29 "
			260' 0"	116.0'	
Sandstone (Staley)		13' 0"			
Shale (Sandy)		7' 0"	273' 0"	103.0'	
Trap Rock		9' 0"	280' 0"	96.0'	
			289' 0"	87.0'	" 30 "

13.0' from
J. H. W. Y.

M. 5 & 6. IN. 2W.

N. 5020

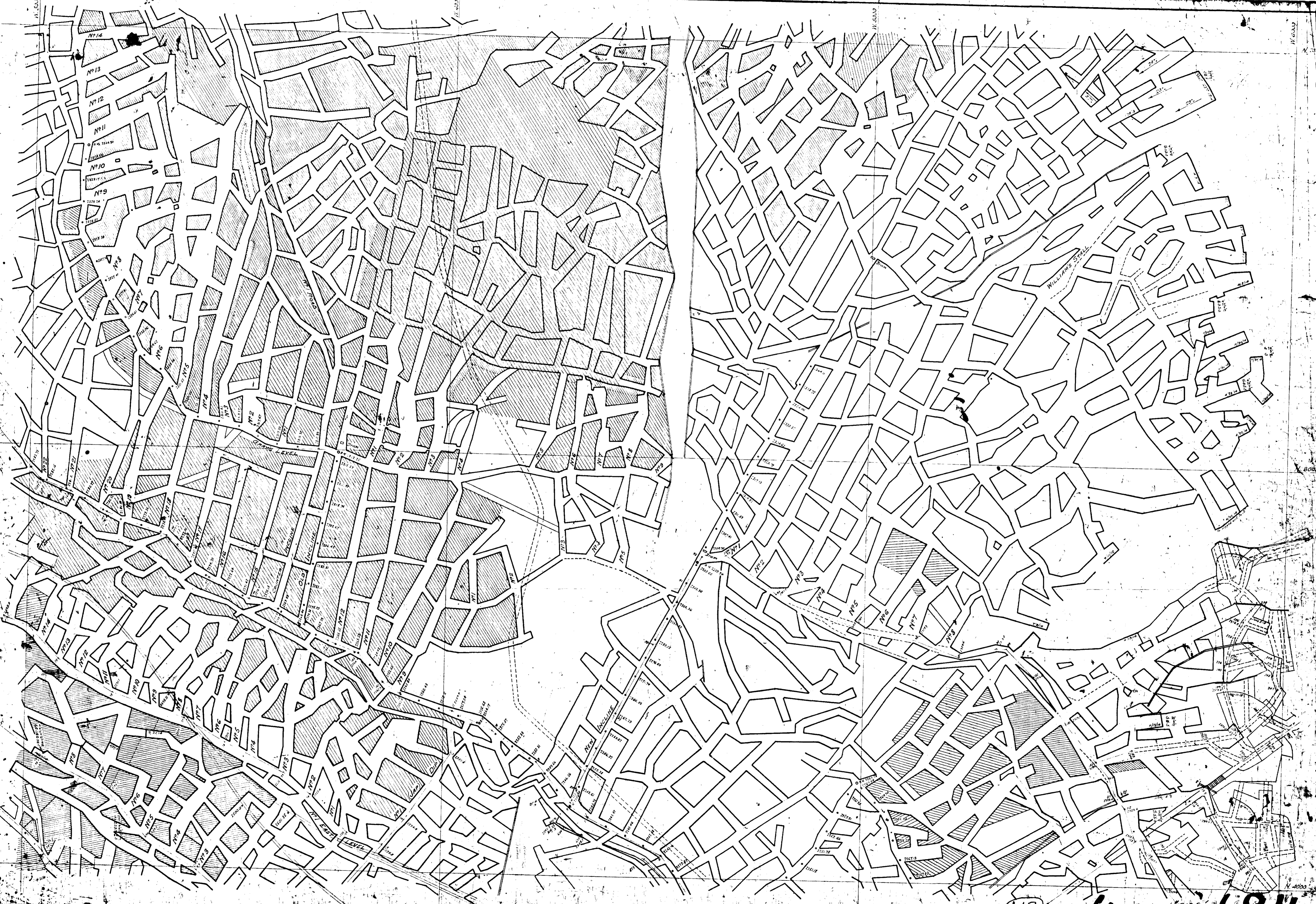
N. 5003



(M)

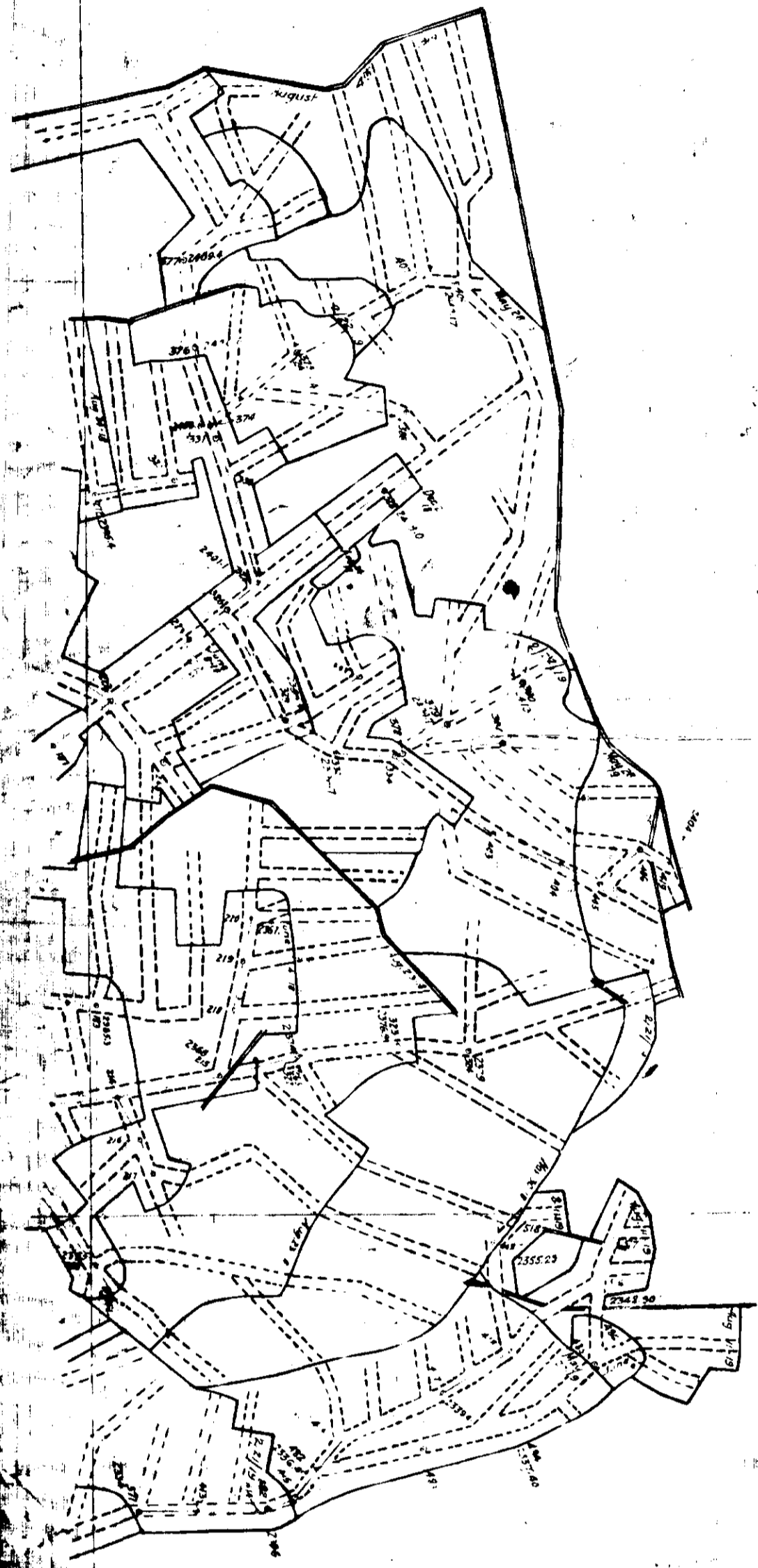
1" = 100'

694
Fig 150



M2

fig 149 694



1/2,000
figs/694
(M3)

M. 5 & 6. 15. 2W.

5,000

5,000

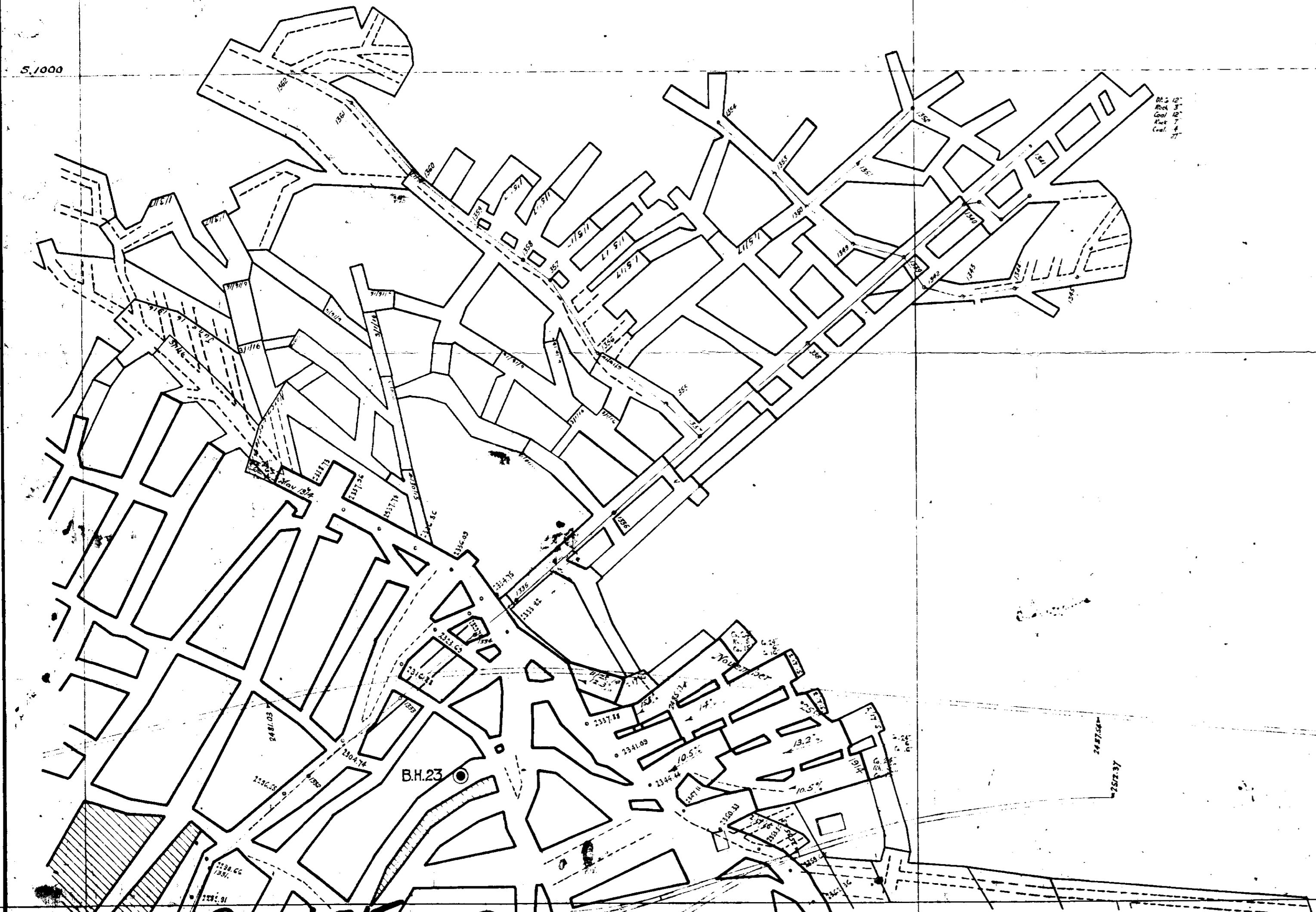


Fig. 155 694

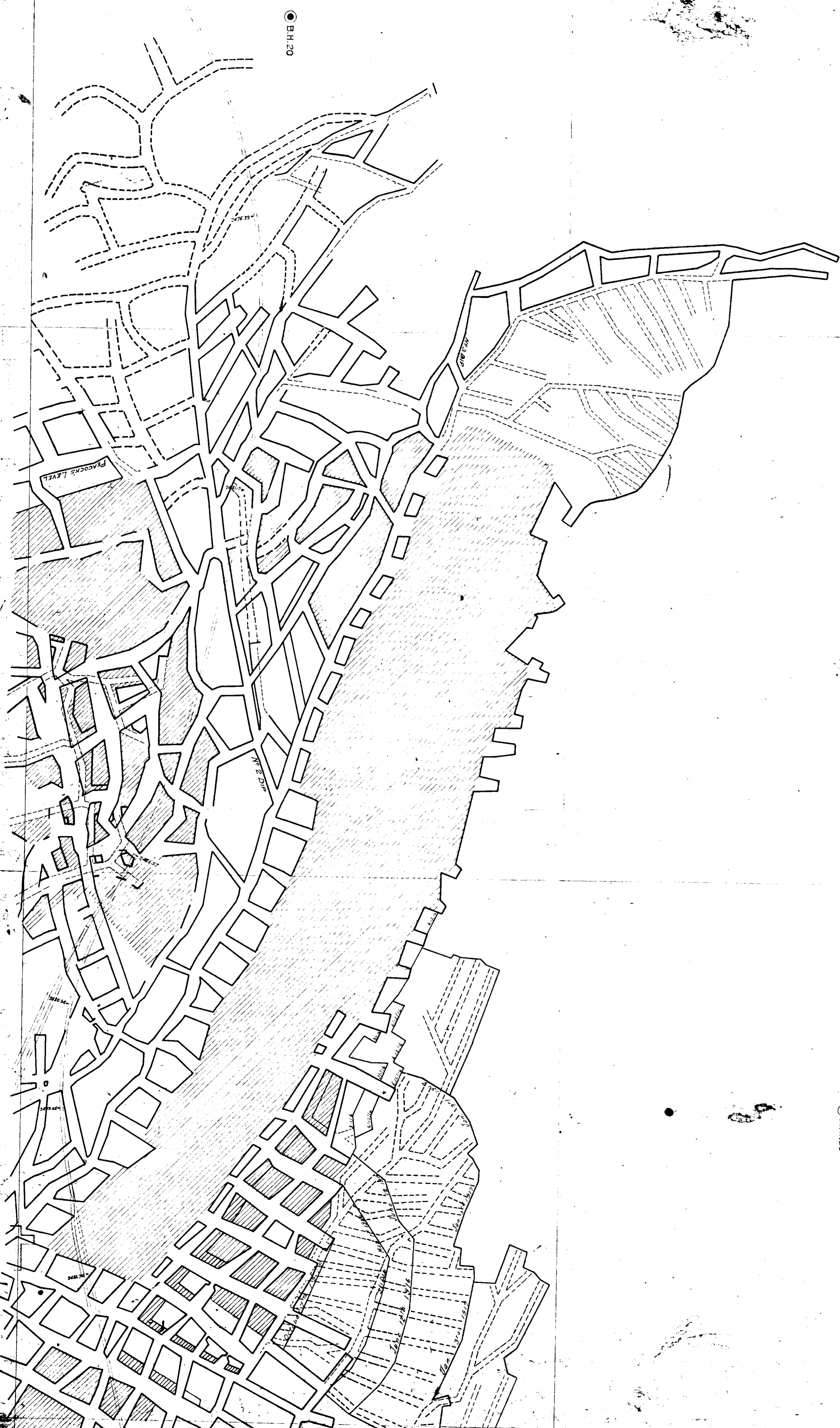
1" = 100'

(M4)

W. 41.03

W. 5000

W. 5000



● B.H. 20

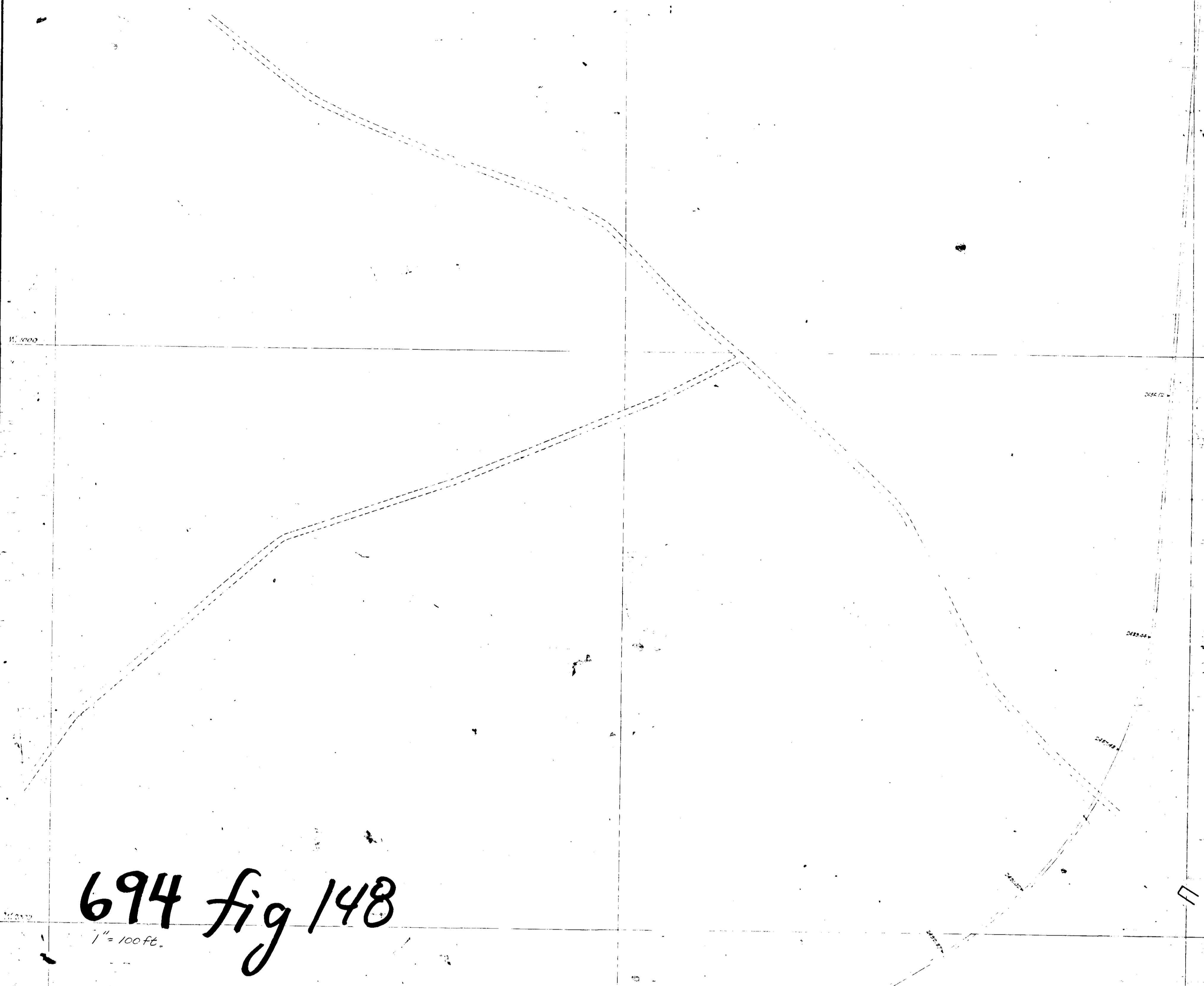
● B.H. 139

Fig. 156-694 (15)
1"=100'

IV. 2000

IV. 3000

516000



694 fig 148
1" = 100 ft.



N 6000
0+00

N 5000

N 4000
0+00

W 1000

W 1000

W 2000

W 2000

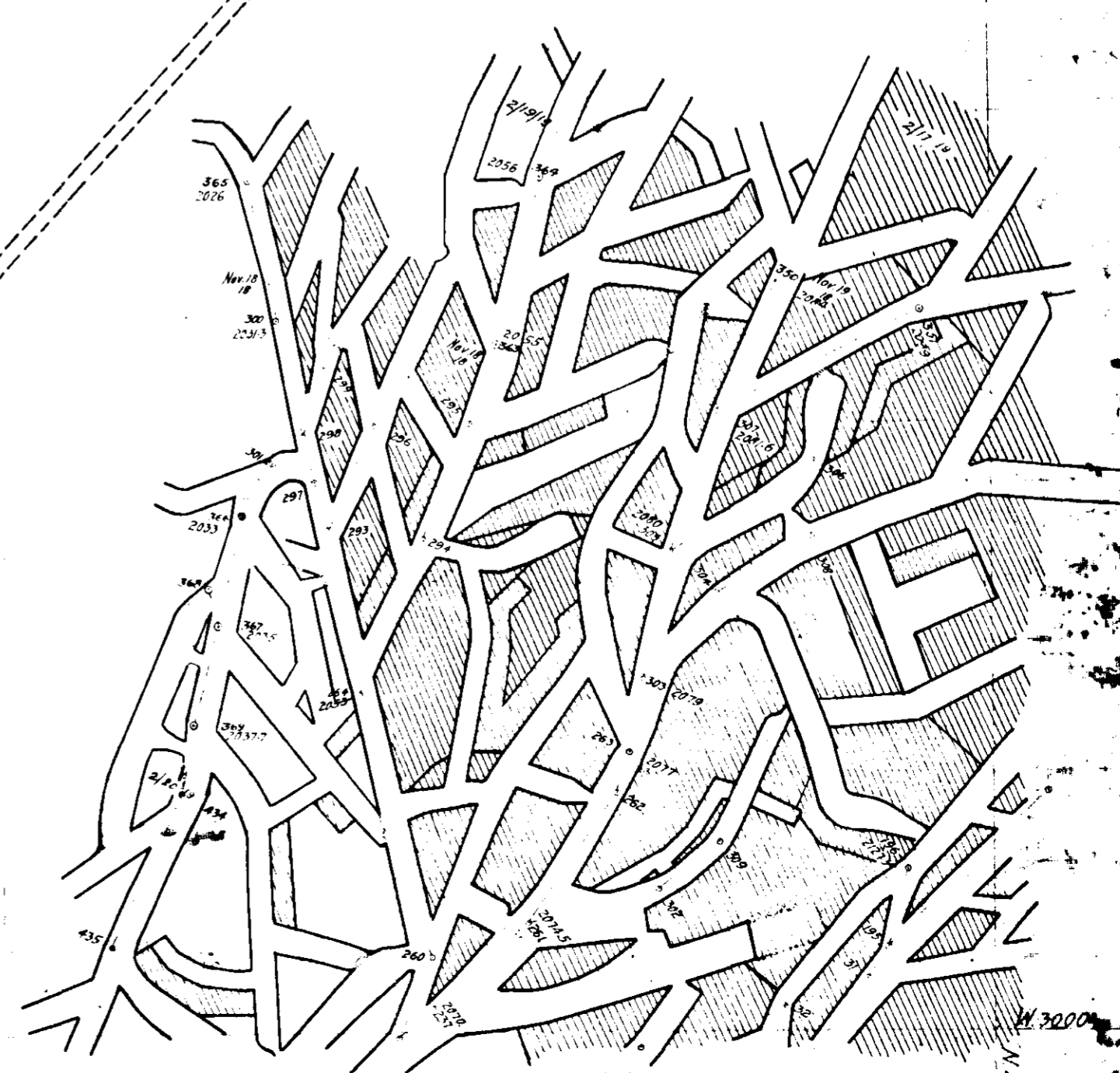
W 3000

N 6000

N 5000

N 4000

694 fig. 152
1" = 100'



(M7)

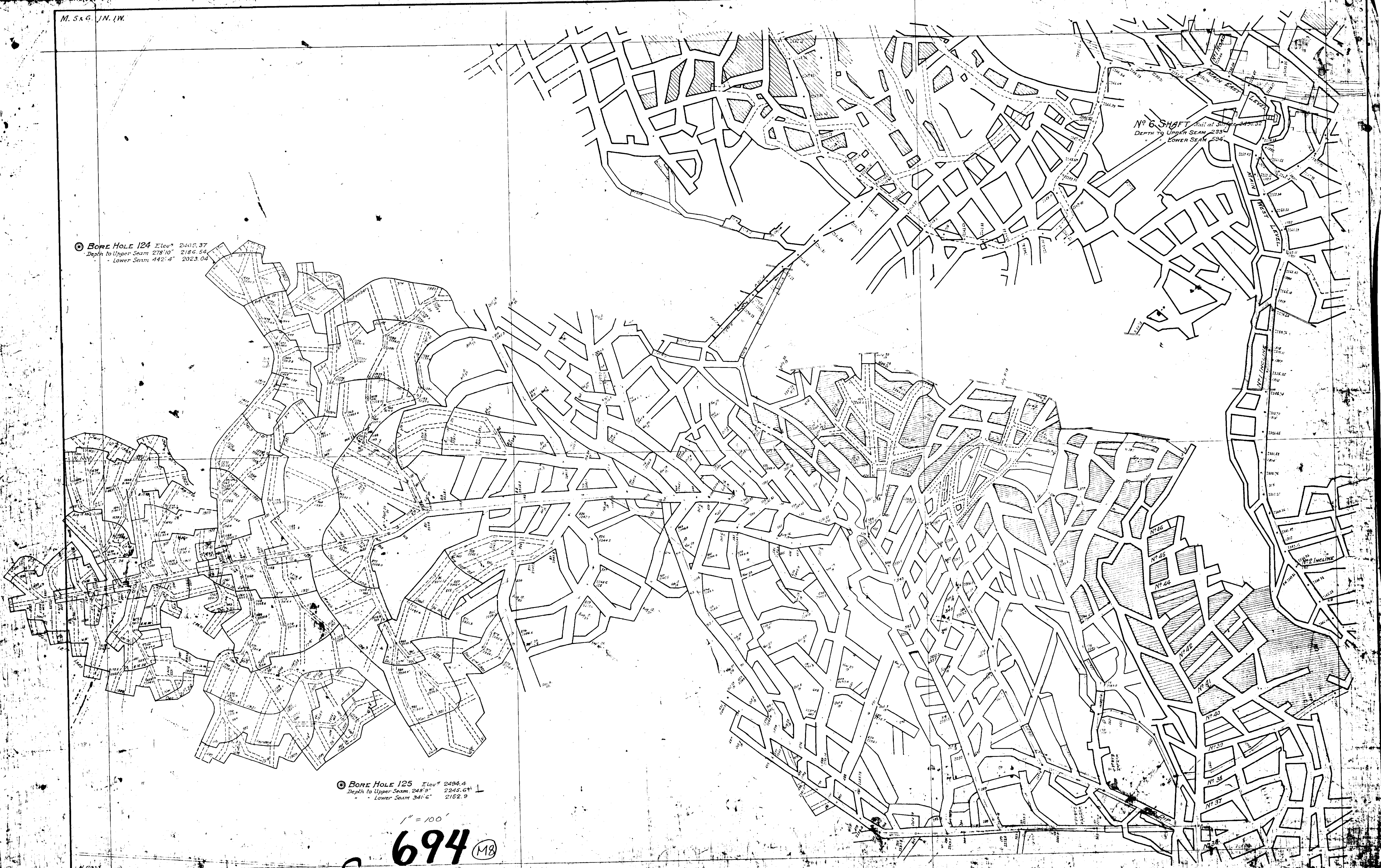
BORE HOLE 124 Elevⁿ 2435.37
Depth to Upper Seam 278' 10" 2186.54
Lower Seam 442' 4" 2023.04

No 6 SHAFT Elevⁿ at Surface 2430.32
DEPTH TO UPPER SEAM 233'
LOWER SEAM 594'

BORE HOLE 125 Elevⁿ 2494.4
Depth to Upper Seam 248' 9" 2245.61
Lower Seam 341' 6" 2152.9

1" = 100'

Fig. 694 (M8)
153





Scale 1/2" = 100'

N.S. SHAW
Depth to Lower Sewer
Lower Sewer

W. 5000

694
fig. 157

(19)