

*Microfilmed by* **FLOFILM** *Process*  
TRADE MARK

# START

WEST CANADIAN GRAPHIC INDUSTRIES LTD., Calgary, Alta.

Microfilmed by **FLOFILM** Process

**ROLL NO.**

23

**DATE** APRIL 12/72

**CAMERA OP.** T Duimel

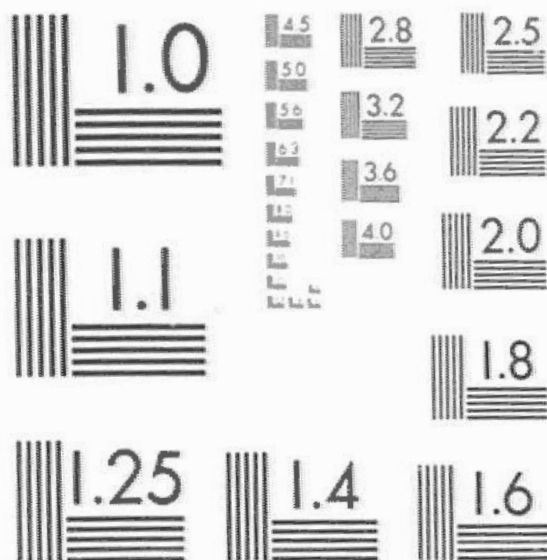
DEPT OF ENERGY MINES & RESOURCES

BEAUFORT - SEA NORTH STAR 1971

**COUNTER**

<b>START</b>	<u>RECORD #1</u>	<u>Line 2</u>	
<b>FLASH NO. 1</b>			
<b>FLASH NO. 2</b>			
<b>FLASH NO. 3</b>			
<b>END</b>	<u>RECORD #13</u>	<u>JULY 16</u>	

**WEST CANADIAN GRAPHIC INDUSTRIES LIMITED**



BEAUFORT SEA SIDE SCAN CONTROL AREA

JULY, 1971

Start Line 2

<u>Red</u>	<u>Green</u>	<u>Time</u>
D 0.31	A38.00	14.21G
<del>0.35</del>	<del>38.2</del>	<del>14.29</del>
C23.6	38.4	14.31
22.9	38.6	14.35
C 2.15	38.8	
<del>C23.90</del>	<del>39.6</del>	
C23.80	39.8	
C23.70	40.0	
C23.75	40.2	
C23.75	40.4	
C23.80	40.6	
C23.86	40.8	
C23.90	41.0	
24.00	41.25	
D00.03	41.40	
D 0.08	41.60	
0.05	41.80	
D 0.12	42.00	
0.08	A42.00	
0.06 $\pm$ 0.02	A42.40 $\pm$ 0.02	
0.04	42.6	
0.00	A42.8	
0.06 <del>5.00</del> $\pm$ 0.02	43.2 $\pm$ 0.02	
23.95	43.5	
23.95	43.8	
23.97	44.0	
23.94	44.40	
23.90	44.80	
23.96	45.0	
0.00	45.2	
0.05	45.4	
0.12	46.4	
0.10	46.6	
0.06	46.0	
23.96	47.0	
D00.00	A47.4	
D00.15	A48.0	

End Line 2



## BEAUFORT SEA SIDE SCAN CONTROL AREA

JULY, 1971

Start Line 3

<u>Red</u>	<u>Green</u>	<u>Time</u>
C23.35	A48.00	
C23.50	47.80	
C23.45	A47.6	
C23.56	47.2	16.06
C23.58	A47.0	
C23.62	46.8	
C23.60	A46.6	
23.54	46.4	
23.57	46.2	
C23.18	A45.00	
23.24	A44.80	
23.28	A44.60	
C23.44	A44.40	
C23.56	A44.2	
23.64	A44.0	
23.65	A43.8	
23.56	A43.6	
23.48	A43.4	
23.40	A43.2	
C23.40	A43.0	
C23.54	A42.8	
C23.50	A42.60	
23.54	A42.40	
23.58	A42.2	
23.56	A42.0	
23.54	A41.8	
23.55	A41.6	
23.55	A41.4	
23.58	A41.2	
C23.52	A40.8	
23.55	40.6	
23.60	40.4	
23.65	40.2	
23.65	40.0	
23.54	A39.80	
23.80	39.6	
23.53	39.4	
23.60	39.2	
23.60	39.00 $\pm$ 0.02	
23.58	38.80	
23.57	38.60	
23.60	38.40	
23.70	38.20	

End Line 3

BEAUFORT SEA SIDE SCAN CONTROL AREA

Start July 18, 1971

Pullen Begin Work A38.0  
Island C3.5 C23.0  
A31.3

Start Line 4 July 18

Red (C-23)

Green (A-38 to A-48)

C22.96	A37.8
C22.95	A38.0
C22.95	A38.2
C22.90	A38.4
C22.90	A38.6
22.90	38.8
22.95	A39.0
C22.95	A39.4
23.00	39.6
22.95	39.8
22.96	40.00
22.95	40.2
22.97	40.4
23.00	40.6
23.22	40.8
23.05	41.00
23.1	41.2
23.1	41.4
23.04	41.6
23.04	41.8
22.95	42.00
22.95	42.2
22.97	42.4
22.85	42.6
22.80	42.8
22.85	43.0
C22.85	A43.0
C22.95	A43.2
C23.12	A43.4
C23.22	A43.6
C23.27	44.0
23.22	44.2
C23.15	A44.4
C23.12	A44.6
23.10	44.8
23.05	45.0
23.03	45.4
23.00	45.6 $\pm$ 0.1
22.97	45.8
C23.00	A46.00
22.97	46.2
22.97	A46.4
22.97	46.6
22.95	47.0
22.95	47.2
22.95	47.4
22.97	47.6
23.00	47.8

End Line 4

BEAUFORT SEA SIDE SCAN CONTROL AREA

JULY, 1971

Start Line 5

Red

Green

C21.90	A47.8
22.15	47.4
22.2	47.2
22.25	47.0
22.21	46.8
22.1	46.6
22.0	46.4
21.99	46.2
21.95	46.0
21.9	45.8
21.92	45.6
21.95	45.4
22.00	A45.2
22.02	45.00
22.08	44.8
22.18	44.6
22.2	44.4
22.13	44.2
21.96	44.00
22.00	43.8
21.97	43.6
22.00	43.4
22.02	43.2
22.05	43.00
21.96	42.8
21.93	42.6
21.93	42.4
21.9	42.2
21.92	42.00
21.92	41.8
21.93	41.6
C21.9	41.4
C21.90	A41.2
C21.90	A41.0
21.90	40.8
21.87	40.6
22.05	40.4
22.12	40.2
22.15	40.00
22.17	39.8
22.07	39.6
21.93	39.4
21.80	39.2
21.77	39.00

End Line 5

BEAUFORT SEA SIDE SCAN CONTROL AREA

JULY, 1971

Start Line 6

<u>Red</u>	<u>Green</u>
20.90	39.0
20.77	39.20
20.75	39.4
20.80	39.6
20.87	39.8
20.90	40.0
20.94	40.2
20.97	40.4
20.93	40.6
20.90	40.8
20.92	41.0
20.94	41.2
20.92	41.4
20.94	41.6
20.90	41.8
20.92	42.0
20.97	42.4
20.96	42.6
20.97	42.8
20.97	43.0
20.97	43.2
21.00	43.6
21.05	44.0
21.00	44.2
20.96	44.4
20.95	44.6
20.97	44.8
21.05	45.0
21.15	45.2
21.2	45.4
21.2	45.6
21.2	45.8
21.15	46.0
21.05	46.4
21.02	46.6
20.99	46.8
20.94	47.0
20.92	47.2
20.9	47.4
20.96	47.6

End Line 6

BEAUFORT SEA SIDE SCAN CONTROL AREA

JULY, 1971

Start Line 7

Red

20.5  
20.0  
19.5  
19.00  
18.5

Green

47.92  
48.00  
48.15  
48.21  
48.25

End Line 7

BEAUFORT SEA SIDE SCAN CONTROL AREA

JULY, 1971

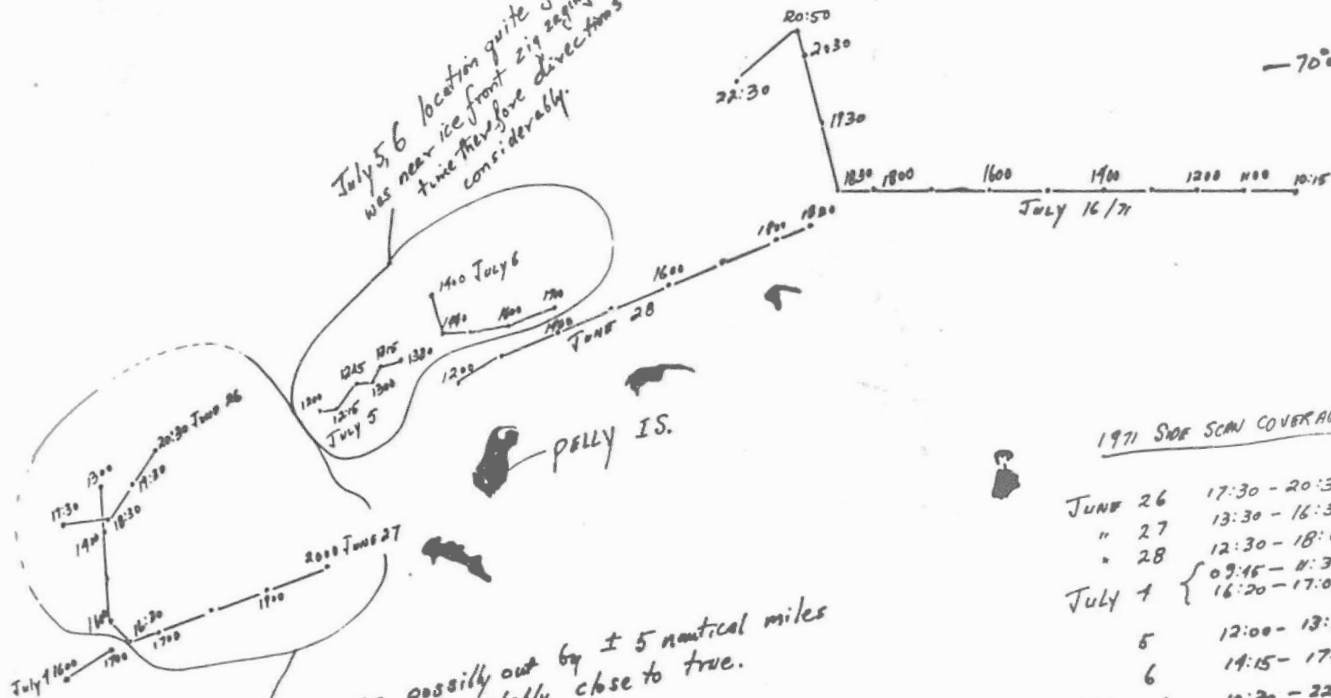
Start Line 8

<u>Red</u>	<u>Green</u>
18.00	46.8
18.5	46.7
19.00	46.5
19.5	46.56
20.00	<u>46.45</u>
20.5	46.5
21.00	46.55
21.5	46.6
22.0	46.6
22.5	46.64
23.0	40.56
23.5	40.5
<del>D</del> 20.0	46.45
00.5	46.37
01.0	<u>46.35</u>
01.5	<u>46.37</u>
02.0	46.5
02.5	46.66
03.0	46.76

End Line 8

70°00' 138°00'

July 5, 6 location quite good but  
was near ice front zig zagging all the  
time therefore directions can be off  
considerably.



Pelly IS.

Lines June 26, 27 possibly out by  $\pm 5$  nautical miles  
although direction probably close to true.

# 1971 SIDE SCAN COVERAGE

JUNE 26	17:30 - 20:30
" 27	13:30 - 16:30
" 28	12:30 - 18:00
JULY 4	{ 09:45 - 11:30 16:20 - 17:00 - *
5	12:00 - 13:30 - *
6	14:15 - 17:00
JULY 16	10:20 - 22:00

\* no corresponding echo sounding "

Scale 1:500000  
Same as CNS chart 7080

+ 69°00'  
123°00'

69°00' 128°00'

A 48.0

A 46.0

A 44.0

70°  
1  
2  
3  
4  
5  
6

A 42.0

A 40.0

A 39.0

A 38.0  
GREEN

D-20

C-21  
RED

69°50' +  
134°30'



DECCA

1:100,000



# BEAUFORT SEA

## ECHO SOUNDING SURVEY

NORTH STAR 1971

RECORD No. 1

LINE No 2

DAY \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_

11/70/11756

11/70/11756

11/70/11756

LINE 2, 3

0

0

10

20

39.8

30

40

45 feet

45 feet

40.0

40.2

40.4

40.6

40.8

41.0

41.25

41.40

41.60

KELVIN HUGHES

ZV.6043

KELV

11/70/11756

11/70/11756

11/70/11756

41.60

41.8

42.02

42.2

42.4

42.6

42.8

43.2

43.5-

43.8

44.0

44.8

45.0

45.2

45.4

46.4

44.0

44.4

Conf.  
2-20

48.0

48.0

47.4

47.4

47.0

46.8

46.6

46.4

BEAUFORT SEA

ECHO SOUNDING SURVEY

NORTH STAR 1971

RECORD No. 2

LINE No 3

DAY \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_

START LINE 3

48.00

C

47.8

47.6

47.0

47.2

46.8

46.6

46.4

46.2

46.0

45.0

44.8

44.5

44.40

44.2

44.0



11/70/11756

11/70/11756

11/70/11756

44.0

43.8

43.6

43.4

43.2  
11/70/11756

43.0

42.8

42.6

42.4

42.2

42.0

41.8

11/70/11756

11/70/11756

11/70/11756

41.8

41.6

41.4

41.2

40.8

40.6

40.4

40.2

40.0

39.8

39.6

END  
LINE 3

38.20

38.4

38.6

38.8

39.00

39.2

39.4

39.6

BEAUFORT SEA

ECHO SOUNDING SURVEY

NORTH STAR 1971

RECORD No. 3

LINE No 4

DAY \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_

38.0

38.2

38.6

39.0

39.4

39.8

39.8

38

38.2

38.4

38.6

38.8

39

39.4

37.8

11/70/11756  
A 378  
11/70/11756  
37.8

40.0

39.8

39.8

40.00

40.2

40.4

40.6

40.8

41.0

41.00

41.2

41.4

41.6

41.8

42.0

42.2

42.4

42.8

Green  
A 43.0

42.8

43.0

43.2

43.4

43.6

44.0

44.4

44.2

44.6

47.4

47.2

47.00

A 46.6

46.4

46.2

A 46.00

45.8

45.6

45.4

45.0

44.8

44.6



11/70/11756

47.4

47.6

47.8

END

LINE 4

# BEAUFORT SEA

## ECHO SOUNDING SURVEY

NORTH STAR 1971

RECORD No. 4

LINE No 5

DAY \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_

START  
LINE S

47.0

47.4

47.5

47.00

46.8

46.6

46.4

46.2

46.00

45.8

45.6

45.4

11/70/11756

11/70/11756

11/70/11756

45.4

45.2

45.00

44.8

44.6

44.4

44.2

44.00

43.8

43.6

43.4

43.2

43.00

42.8

11/70/11756

42.8

42.6

42.4

42.2

42.00

41.8

41.6

41.4

41.2

A. 41.0

40.8

40.6

40.4

11/70/11756

11/70/11756

ZV.6043

KELVIN HUGHES

ZV.6043

11/70/11756

11/70/11756

40.9

40.4

40.0

39.8

39.6

39.4

39.2

39.0

END  
LINE'S

# BEAUFORT SEA

## ECHO SOUNDING SURVEY

NORTH STAR 1971

RECORD No. 5

LINE No 6

DAY \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_

START  
Line 6

A 39.0

A 39.2

39.4

A 39.6

39.8

40.0

40.2

40.4

40.6

40.8

41.0

A 41.2

41.4



A 41.2

41.4

A 41.6

41.8

42.0

42.4

42.6

42.8

missed

43.6

44.0

11/70/11756

11/70/11756

11/70/11756

44.0

44.2

44.4

44.6

44.8

45.0

45.2

45.4

45.6

45.8

46.0

46.4

46.6

46.6

46.8

47.00

47.2

47.4

47.6

END  
LINE 6

# BEAUFORT SEA

## ECHO SOUNDING SURVEY

NORTH STAR 1971

RECORD No. 6

LINE No 7

DAY \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_

11/70/11756

11/70/11756

20.5

20.00

19.8

19.0

18.5

START  
LINE 7

END  
LINE 7

BEAUFORT SEA

ECHO SOUNDING SURVEY

NORTH STAR 1971

RECORD No. 7

LINE No 8

DAY \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_

START  
LINE 8

18.00

19.5

19.00

19.5

20.00

20.5

21.00

21.5

22.0

22.5

23.0

23.00

00.5

0.5

0.10

0.5

0.20

0.5

D 3.0

END  
LINE 8