

MISSION BAY

No. 25

K&E
LEVEL BACK

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
 Roadway of any Width. Side Slopes 1 1/2 to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



| Cut or Fill | Distance out from Side or Shoulder Stake | | | | | | | | | | Cut or Fill |
|-------------|--|------|------|------|------|------|------|------|------|------|-------------|
| | 0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
| 0 | 0.0 | 0.2 | 0.3 | 0.5 | 0.6 | 0.8 | 0.9 | 1.1 | 1.2 | 1.4 | 0 |
| 1 | 1.5 | 1.7 | 1.8 | 2.0 | 2.1 | 2.3 | 2.4 | 2.6 | 2.7 | 2.9 | 1 |
| 2 | 3.0 | 3.2 | 3.3 | 3.5 | 3.6 | 3.8 | 3.9 | 4.1 | 4.2 | 4.4 | 2 |
| 3 | 4.5 | 4.7 | 4.8 | 5.0 | 5.1 | 5.3 | 5.4 | 5.6 | 5.7 | 5.9 | 3 |
| 4 | 6.0 | 6.2 | 6.3 | 6.5 | 6.6 | 6.8 | 6.9 | 7.1 | 7.2 | 7.4 | 4 |
| 5 | 7.5 | 7.7 | 7.8 | 8.0 | 8.1 | 8.3 | 8.4 | 8.6 | 8.7 | 8.9 | 5 |
| 6 | 9.0 | 9.2 | 9.3 | 9.5 | 9.6 | 9.8 | 9.9 | 10.1 | 10.2 | 10.4 | 6 |
| 7 | 10.5 | 10.7 | 10.8 | 11.0 | 11.1 | 11.3 | 11.4 | 11.6 | 11.7 | 11.9 | 7 |
| 8 | 12.0 | 12.2 | 12.3 | 12.5 | 12.6 | 12.8 | 12.9 | 13.1 | 13.2 | 13.4 | 8 |
| 9 | 13.5 | 13.7 | 13.8 | 14.0 | 14.1 | 14.3 | 14.4 | 14.6 | 14.7 | 14.9 | 9 |
| 10 | 15.0 | 15.2 | 15.3 | 15.5 | 15.6 | 15.8 | 15.9 | 16.1 | 16.2 | 16.4 | 10 |
| 11 | 16.5 | 16.7 | 16.8 | 17.0 | 17.1 | 17.3 | 17.4 | 17.6 | 17.7 | 17.9 | 11 |
| 12 | 18.0 | 18.2 | 18.3 | 18.5 | 18.6 | 18.8 | 18.9 | 19.1 | 19.2 | 19.4 | 12 |
| 13 | 19.5 | 19.7 | 19.8 | 20.0 | 20.1 | 20.3 | 20.4 | 20.6 | 20.7 | 20.9 | 13 |
| 14 | 21.0 | 21.2 | 21.3 | 21.5 | 21.6 | 21.8 | 21.9 | 22.1 | 22.2 | 22.4 | 14 |
| 15 | 22.5 | 22.7 | 22.8 | 23.0 | 23.1 | 23.3 | 23.4 | 23.6 | 23.7 | 23.9 | 15 |
| 16 | 24.0 | 24.2 | 24.3 | 24.5 | 24.6 | 24.8 | 24.9 | 25.1 | 25.2 | 25.4 | 16 |
| 17 | 25.5 | 25.7 | 25.8 | 26.0 | 26.1 | 26.3 | 26.4 | 26.6 | 26.7 | 26.9 | 17 |
| 18 | 27.0 | 27.2 | 27.3 | 27.5 | 27.6 | 27.8 | 27.9 | 28.1 | 28.2 | 28.4 | 18 |
| 19 | 28.5 | 28.7 | 28.8 | 29.0 | 29.1 | 29.3 | 29.4 | 29.6 | 29.7 | 29.9 | 19 |
| 20 | 30.0 | 30.2 | 30.3 | 30.5 | 30.6 | 30.8 | 30.9 | 31.1 | 31.2 | 31.4 | 20 |
| 21 | 31.5 | 31.7 | 31.8 | 32.0 | 32.1 | 32.3 | 32.4 | 32.6 | 32.7 | 32.9 | 21 |
| 22 | 33.0 | 33.2 | 33.3 | 33.5 | 33.6 | 33.8 | 33.9 | 34.1 | 34.2 | 34.4 | 22 |
| 23 | 34.5 | 34.7 | 34.8 | 35.0 | 35.1 | 35.3 | 35.4 | 35.6 | 35.7 | 35.9 | 23 |
| 24 | 36.0 | 36.2 | 36.3 | 36.5 | 36.6 | 36.8 | 36.9 | 37.1 | 37.2 | 37.4 | 24 |
| 25 | 37.5 | 37.7 | 37.8 | 38.0 | 38.1 | 38.3 | 38.4 | 38.6 | 38.7 | 38.9 | 25 |
| 26 | 39.0 | 39.2 | 39.3 | 39.5 | 39.6 | 39.8 | 39.9 | 40.1 | 40.2 | 40.4 | 26 |
| 27 | 40.5 | 40.7 | 40.8 | 41.0 | 41.1 | 41.3 | 41.4 | 41.6 | 41.7 | 41.9 | 27 |
| 28 | 42.0 | 42.2 | 42.3 | 42.5 | 42.6 | 42.8 | 42.9 | 43.1 | 43.2 | 43.4 | 28 |
| 29 | 43.5 | 43.7 | 43.8 | 44.0 | 44.1 | 44.3 | 44.4 | 44.6 | 44.7 | 44.9 | 29 |
| 30 | 45.0 | 45.2 | 45.3 | 45.5 | 45.6 | 45.8 | 45.9 | 46.1 | 46.2 | 46.4 | 30 |
| 31 | 46.5 | 46.7 | 46.8 | 47.0 | 47.1 | 47.3 | 47.4 | 47.6 | 47.7 | 47.9 | 31 |
| 32 | 48.0 | 48.2 | 48.3 | 48.5 | 48.6 | 48.8 | 48.9 | 49.1 | 49.2 | 49.4 | 32 |
| 33 | 49.5 | 49.7 | 49.8 | 50.0 | 50.1 | 50.3 | 50.4 | 50.6 | 50.7 | 50.9 | 33 |
| 34 | 51.0 | 51.2 | 51.3 | 51.5 | 51.6 | 51.8 | 51.9 | 52.1 | 52.2 | 52.4 | 34 |
| 35 | 52.5 | 52.7 | 52.8 | 53.0 | 53.1 | 53.3 | 53.4 | 53.6 | 53.7 | 53.9 | 35 |
| 36 | 54.0 | 54.2 | 54.3 | 54.5 | 54.6 | 54.8 | 54.9 | 55.1 | 55.2 | 55.4 | 36 |
| 37 | 55.5 | 55.7 | 55.8 | 56.0 | 56.1 | 56.3 | 56.4 | 56.6 | 56.7 | 56.9 | 37 |
| 38 | 57.0 | 57.2 | 57.3 | 57.5 | 57.6 | 57.8 | 57.9 | 58.1 | 58.2 | 58.4 | 38 |
| 39 | 58.5 | 58.7 | 58.8 | 59.0 | 59.1 | 59.3 | 59.4 | 59.6 | 59.7 | 59.9 | 39 |
| 40 | 60.0 | 60.2 | 60.3 | 60.5 | 60.6 | 60.8 | 60.9 | 61.1 | 61.2 | 61.4 | 40 |

KEUFFEL & ESSER CO., N. Y.

FB-25

The paper in this book No. 370A
 is made of 50% high grade rag stock
 with a WATER RESISTING surface sizing.

11,638-1. c. y. ya. kM.

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PX TIERRA DEL FUEGO W. HALF
FINAL X-SECTIONS PROJECT # 8

DARRACAN
STANLEY

10-17-47

PX.
STA

0+00 = STA-79+00 - R-105+00

10-17-47

①

+ H.I. - ELEV

STA + H.I. - ELEV

T.B.M. 7.36 17.14 9.78

R-105

STA-78+00

B.M. 8.31 19.28 10.97

STA-93+00

CAUSEWAY

0+00 5.0 12.1

T.P. 3.04 17.23 5.09 14.13

W 0+52

4.3 12.8

T.B.M. 2.65 17.55 -2.33 14.90

2X2-20 W

STA-92 R-104

BETWEEN

(R-104)

85+00 & 86+00

W 0+96

4.7 12.4

T.P. 5.52 18.16 4.91 12.64

W 1+38

5.7 11.4

T.P. 3.43 16.48 5.11 13.05

R-104

STA-79+00

R-105

STA-78+00

W 1+65

7.1 10.0

T.P. 2.71 12.49 6.70 9.78

W 1+95

9.3 7.8

W 2+10

11.7 5.4

Indexed

0+00 = STA-78+00 - R-105+00

STA + H.I. - ELEV

T.B.M. 2.71 12.49 9.78

R-105

STA-78+00

E 3+50 6.0 6.5

E 3+32 5.2 7.3

E 2+81 4.2 8.3

E 2+16 3.4 9.1

E 1+55 2.6 9.9

E 1+00 3.1 9.4

E 0+92 3.4 9.1

0+00 4.8 7.6

W 0+40 6.3 6.2

10-17-47

PX.

STA- 80+00 - R-101+00

0+00 =

| STA | + | H.I. | - | ELEV |
|--------|------|-------|---|-------|
| T.B.M | 4.83 | 17.88 | | 13.05 |
| W 1+70 | | 11.6 | | 6.3 |
| W 1+55 | | 9.1 | | 8.8 |
| W 1+25 | | 5.8 | | 12.1 |
| W 0+92 | | 5.1 | | 12.5 |
| W 0+50 | | 5.2 | | 12.7 |
| W 0+00 | | 2.9 | | 13.0 |
| E 0+50 | | 4.5 | | 13.4 |
| E 1+05 | | 4.2 | | 13.7 |
| E 1+52 | | 3.3 | | 14.6 |
| E 2+15 | | 4.1 | | 13.8 |
| E 2+77 | | 4.3 | | 13.6 |
| E 3+50 | | 5.0 | | 12.9 |
| E 4+05 | | 4.6 | | 13.3 |
| E 4+75 | | 5.3 | | 12.6 |

10-17-47

PX.

STA- 81+00 - R-101+00

0+00 =

| STA | + | H.I. | - | ELEV |
|--------|------|-------|---|-------|
| T.B.M | 5.30 | 18.35 | | 13.05 |
| E 7+80 | | 5.5 | | 12.8 |
| E 7+20 | | 4.9 | | 13.4 |
| E 3+15 | | 5.2 | | 13.1 |
| E 3+30 | | 5.3 | | 13.0 |
| E 2+70 | | 4.5 | | 13.8 |
| E 2+20 | | 3.9 | | 14.4 |
| E 1+70 | | 3.7 | | 14.6 |
| E 1+25 | | 3.7 | | 14.6 |
| E 0+35 | | 4.0 | | 14.3 |
| E 0+45 | | 4.5 | | 13.8 |
| 0+00 | | 5.0 | | 13.3 |
| W 0+40 | | 5.4 | | 12.9 |
| W 0+82 | | 5.8 | | 12.5 |
| W 1+15 | | 5.6 | | 12.7 |
| W 1+55 | | 5.8 | | 12.5 |
| W 1+75 | | 7.9 | | 10.4 |
| W 1+93 | | 9.9 | | 8.4 |
| W 2+00 | | 11.1 | | 7.2 |

②

10-17-97

PX STA- 0+00 = 82+00 - R- 104+00

| STA | + | H.I. | - | ELEV |
|--------|------|-------|------|-------|
| T.B.M. | 5.08 | 18.13 | | 13.05 |
| W 2+30 | | | 11.8 | 6.3 |
| W 2+12 | | | 9.8 | 8.3 |
| W 1+95 | | | 7.8 | 10.3 |
| W 1+63 | | | 5.5 | 12.6 |
| W 1+20 | | | 5.3 | 12.8 |
| W 0+92 | | | 5.3 | 12.8 |
| W 0+50 | | | 5.2 | 12.9 |
| 0+00 | | | 5.0 | 13.1 |
| E 0+40 | | | 9.6 | 13.5 |
| E 0+97 | | | 9.7 | 13.4 |
| E 1+65 | | | 9.6 | 13.5 |
| E 2+22 | | | 9.0 | 14.1 |
| E 2+80 | | | 9.7 | 13.4 |
| E 3+77 | | | 5.1 | 13.0 |
| E 4+05 | | | 9.8 | 13.3 |
| E 4+80 | | | 6.1 | 12.0 |

10-17-97

PX STA- 0+00 = 83+00 - R- 104+00

| STA | + | H.I. | - | ELEV |
|--------|------|-------|------|-------|
| T.B.M. | 5.65 | 18.29 | | 12.64 |
| E 4+67 | | | 5.2 | 13.1 |
| E 4+65 | | | 5.8 | 12.5 |
| E 2+55 | | | 6.5 | 11.8 |
| E 3+00 | | | 6.4 | 11.9 |
| E 2+77 | | | 6.6 | 11.7 |
| E 2+03 | | | 6.7 | 11.6 |
| E 1+50 | | | 6.3 | 12.0 |
| E 0+95 | | | 5.8 | 12.5 |
| E 0+55 | | | 5.4 | 12.9 |
| 0+00 | | | 5.1 | 13.2 |
| W 0+50 | | | 5.1 | 13.2 |
| W 0+95 | | | 5.9 | 12.4 |
| W 1+40 | | | 6.8 | 11.5 |
| W 1+72 | | | 7.5 | 10.8 |
| W 2+03 | | | 10.2 | 8.1 |
| W 2+30 | | | 12.5 | 5.8 |

PX

STA-
0+00 = 89+00 - R- 104+00

10-17-47

| STA | + | H.I. | - | ELEV |
|--------|------|-------|------|-------|
| T.B.M. | 5.09 | 17.73 | | 12.64 |
| W 2+00 | | | 12.0 | 5.7 |
| W 1+78 | | | 10.4 | 7.3 |
| W 1+52 | | | 8.1 | 9.6 |
| W 1+20 | | | 6.4 | 11.3 |
| W 0+95 | | | 5.7 | 12.0 |
| W 0+53 | | | 5.2 | 12.5 |
| 0+00 | | | 5.1 | 12.6 |
| E 0+50 | | | 5.2 | 12.5 |
| E 0+92 | | | 5.6 | 12.1 |
| E 1+47 | | | 6.3 | 11.4 |
| E 2+05 | | | 6.5 | 11.2 |
| E 2+61 | | | 6.6 | 11.1 |
| E 3+36 | | | 6.5 | 11.2 |
| E 3+86 | | | 6.4 | 11.3 |
| E 4+85 | | | 6.1 | 11.6 |

PX

STA-
0+00 = 85+00 - (R- 104+00)

10-17-47

| STA | + | H.I. | - | ELEV |
|--------|------|-------|------|-------|
| T.B.M. | 4.56 | 17.20 | | 12.64 |
| E 2+90 | | | 13.1 | 4.1 |
| E 2+75 | | | 13.0 | 4.2 |
| E 2+50 | | | 10.1 | 7.1 |
| E 2+15 | | | 8.2 | 9.0 |
| E 1+70 | | | 6.0 | 11.2 |
| E 1+25 | | | 5.8 | 11.4 |
| E 0+77 | | | 5.4 | 11.8 |
| E 0+50 | | | 5.3 | 11.9 |
| 0+00 | | | 5.1 | 12.1 |
| W 0+50 | | | 5.3 | 11.9 |
| W 0+30 | | | 5.7 | 11.5 |
| W 1+10 | | | 8.0 | 9.2 |
| W 1+30 | | | 9.9 | 7.3 |
| W 1+50 | | | 11.3 | 5.9 |

⑦

PX

STA-
0+00 = 86+00 - (R-104+00)

10-17-97

| STA | + | H.I. | - | ELEV |
|--------|------|-------|------|-------|
| T.B.M. | 3.70 | 16.34 | | 12.64 |
| W 1400 | | | 10.5 | 5.8 |
| W 0785 | | | 9.0 | 7.3 |
| W 0465 | | | 7.0 | 9.3 |
| W 0490 | | | 9.9 | 11.4 |
| 0+00 | | | 5.0 | 11.3 |
| E 0+40 | | | 5.0 | 11.3 |
| E 0+85 | | | 7.8 | 11.5 |
| E 1430 | | | 5.0 | 11.3 |
| E 1470 | | | 5.4 | 10.9 |
| E 2+00 | | | 6.7 | 9.6 |
| E 2+25 | | | 8.0 | 8.3 |
| E 2+65 | | | 12.1 | 4.2 |

PX

STA-
0+00 = 87+00 - (R-104+00)

10-17-97

⑤

| STA | + | H.I. | - | ELEV |
|--------|------|-------|------|-------|
| T.B.M. | 4.26 | 16.90 | | 12.64 |
| E 1+66 | | | 8.7 | 8.2 |
| E 1+05 | | | 8.5 | 8.4 |
| E 1+20 | | | 8.5 | 8.4 |
| E 2+80 | | | 8.2 | 8.7 |
| E 2+32 | | | 7.1 | 9.8 |
| E 1+85 | | | 6.0 | 10.9 |
| E 1+36 | | | 5.4 | 11.5 |
| E 0+84 | | | 5.8 | 11.1 |
| E 1+45 | | | 5.2 | 11.7 |
| 0+00 | | | 5.1 | 11.8 |
| W 0+16 | | | 5.6 | 11.3 |
| W 0+40 | | | 7.6 | 9.3 |
| W 0+60 | | | 9.5 | 7.4 |
| W 0+80 | | | 11.3 | 5.6 |

PX

 STA-
 0+00 = 88+00 - (R-10+100)

| STA | T | H.I. | - | ELEV |
|--------|------|-------|------|-------|
| T.B.M | 9.55 | 17.19 | | 12.64 |
| W 1+00 | | | 11.7 | 5.5 |
| W 0+85 | | | 10.4 | 6.8 |
| W 0+70 | | | 8.8 | 8.4 |
| W 0+52 | | | 2.0 | 10.2 |
| W 0+32 | | | 5.5 | 11.7 |
| 0+00 | | | 5.0 | 12.2 |

10-19-47

PV

FINAL SOUNDINGS OF SHOLES PROJECT # 8

BARRABOBY
SHEARY
STONLEY10-21-47
CLEAR
CASH
COOL

⑥

STA-77+00

 $\left\{ \begin{array}{l} R-106+00 \\ STA-77+00 \end{array} \right\}$ SOUND WEST

| DIST | SOUND | DIST | SOUND |
|-------|----------|-------|-----------|
| 0+00 | 4.3 -0.3 | 1+50 | 8.0 -4.0 |
| 09:42 | 4.0 0.0 | | 8.0 -4.0 |
| (4.0) | 4.3 -0.3 | (4.0) | 8.5 -4.5 |
| | 4.6 -0.6 | | 8.8 -4.8 |
| | 5.2 -1.2 | | 9.1 -5.4 |
| 50 | 5.2 -1.2 | 2+00 | 10.0 -6.0 |
| | 5.2 -1.2 | | 10.3 -6.3 |
| | 5.5 -1.5 | | 10.5 -6.5 |
| | 5.8 -1.8 | | 11.0 -7.0 |
| | 5.9 -1.9 | | 11.3 -7.3 |
| 1+00 | 6.7 -2.7 | 50 | 11.4 -7.4 |
| | 7.7 -3.7 | | 12.1 -8.4 |
| | 8.0 -4.0 | | 12.6 -8.6 |
| | 8.3 -4.3 | 09:45 | 12.5 -8.5 |
| | | | 12.5 -8.5 |
| 1+40 | 8.7 -4.7 | 3+00 | 12.5 -8.3 |

10-21-47

PX

STA-77+00

2+00 = {P-106+00 / STA-77+00} SOUND EAST AT 90° T. 1/4.

DIST SOUND DIST SOUND

| | | | | | | |
|---|--------------|-----|------|--------------|------|------|
| W | 0+10 | 4.3 | -0.3 | 1+70 | 6.3 | -2.3 |
| W | <u>03:49</u> | 4.5 | -0.5 | | 6.2 | -2.3 |
| W | (4.0) | 5.5 | -1.5 | (4.0) | 6.2 | -2.2 |
| W | | 6.0 | -2.0 | 2+00 | 7.5 | -3.5 |
| W | 50 | 6.5 | -2.5 | | 7.1 | -3.4 |
| | | 6.4 | -2.4 | | 7.0 | -3.0 |
| | | 5.6 | -1.6 | | 6.8 | -2.5 |
| | | 6.0 | -2.0 | <u>03:53</u> | 6.5 | -2.5 |
| | | 6.0 | -2.0 | 50 | 6.8 | -2.5 |
| | 1+00 | 6.0 | -2.0 | | 7.0 | -3.0 |
| | | 5.8 | -1.8 | | 7.0 | -3.0 |
| | | 5.6 | -1.6 | | 7.0 | -3.0 |
| | | 5.4 | -1.4 | | 6.9 | -2.9 |
| | | 5.6 | -1.6 | 3+00 | 9.2 | -5.2 |
| | 50 | 6.5 | -2.5 | | 9.8 | -5.8 |
| | 1+60 | 6.3 | -2.3 | 3+20 | 10.1 | -6.1 |

PY

77+00

10-21-47

(7)

DIST SOUND DIST SOUND

| | | | | | | |
|--|-------|------|------|--------------|--|--|
| | 3+30 | 10.9 | -6.2 | | | |
| | | 11.2 | -7.2 | | | |
| | 50 | 12.0 | -8.0 | | | |
| | | 12.4 | -8.4 | | | |
| | (4.0) | 12.3 | -8.3 | (4.0) | | |
| | | 12.1 | -8.1 | | | |
| | | 12.1 | -8.1 | | | |
| | | 12.1 | -8.1 | 4+00 | | |
| | | 12.8 | -8.8 | | | |
| | | 13.0 | -9.0 | | | |
| | | 13.0 | -9.0 | | | |
| | | 13.1 | -9.1 | | | |
| | | 13.0 | -9.0 | 50 | | |
| | | 12.8 | -8.8 | | | |
| | | 12.1 | -8.1 | | | |
| | | 12.0 | -8.0 | | | |
| | | 12.3 | -8.3 | <u>03:57</u> | | |
| | 5+00 | 12.3 | -8.3 | | | |

350'E-R.105

PX,

78+00

$$\left. \begin{array}{l} R-108+50 \\ 0+00 = \{ STA-78+00 \end{array} \right\}$$

) SOUND EAST

| | 0+40 | 0.0 | +4.1 | 2+1.0 | 11.9 | -7.8 |
|---|-------|------|------|-------|------|-------|
| | 10:09 | 1.0 | +3.1 | | 13.0 | -8.9 |
| W | | 1.7 | +2.4 | (9.1) | 13.2 | -9.1 |
| W | (9.1) | 2.1 | +2.0 | | 13.0 | -8.9 |
| W | | 3.1 | +1.0 | 50 | 12.8 | -8.7 |
| W | | 3.4 | +0.7 | | 14.0 | -9.9 |
| W | 1+00 | 3.8 | +0.3 | | 14.0 | -9.9 |
| | | 3.7 | +0.4 | | 14.8 | -10.7 |
| | | 5.0 | -0.9 | | 14.8 | -10.7 |
| | | 7.6 | -3.5 | 3+00 | 14.3 | -10.6 |
| | | 9.8 | -5.7 | | | |
| | 50 | 11.0 | -6.9 | | | |
| | | 11.7 | -7.6 | | | |
| | | 11.8 | -7.7 | | | |
| | | 11.3 | -7.2 | | | |
| | | 11.8 | -7.7 | | | |
| | 2+00 | 11.8 | -7.7 | | | |

10-21-77

PX

79+00

$$\left. \begin{array}{l} R-109+50 \\ 0+00 = \{ STA-79+00 \end{array} \right\}$$

) SOUND EAST AT 30° To R/L.

| | 0+00 | 0.0 | +4.1 | 14.70 | 13.0 | -8.9 |
|--|------|------|------|-------|------|------|
| | 0+00 | 2.0 | +2.1 | | 12.4 | -8.3 |
| | 0+20 | 3.1 | +1.0 | (9.1) | 13.1 | -9.0 |
| | 0+40 | 3.5 | +0.6 | (9.1) | 13.5 | -9.4 |
| | 0+60 | 5.0 | -0.9 | 50 | 13.0 | -8.9 |
| | 1+00 | 8.3 | -4.2 | 10:25 | 12.3 | -8.2 |
| | | 9.8 | -5.7 | | 12.5 | -8.4 |
| | | 10.2 | -6.1 | | 12.4 | -8.3 |
| | | 10.5 | -6.4 | 50 | 12.6 | -8.5 |
| | 1+00 | 11.4 | -7.3 | | 13.2 | -9.1 |
| | | 11.7 | -7.6 | | 13.2 | -9.1 |
| | | 12.2 | -8.1 | | 12.8 | -8.7 |
| | | 12.4 | -8.3 | | 12.4 | -8.3 |
| | | 12.8 | -8.7 | 3+00 | 12.1 | -8.0 |
| | 50 | 12.8 | -8.7 | | 11.7 | -7.6 |
| | 1+00 | 12.8 | -8.7 | 3+20 | 12.0 | -7.9 |

| PX | | 79+00 | | 10-21-47 | | PX | | 79+00 | | 10-21-47 | | ③ |
|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|----------|-------|---|
| DIST | SOUND | DIST | SOUND | DIST | SOUND | DIST | SOUND | DIST | SOUND | DIST | SOUND | |
| 3+30 | 12.1 | -8.0 | 5+10 | 12.0 | -7.9 | 6+90 | 2.9 | +1.7 | 8+70 | 11.5 | -7.4 | |
| | 13.5 | -9.4 | | 12.3 | -8.2 | 7+00 | 3.3 | +0.8 | | 11.2 | -7.1 | |
| 50 | 14.0 | -9.9 | | 12.0 | -7.9 | 7+00 | 8.7 | -4.6 | | 11.2 | -7.1 | |
| (4.1) | 14.0 | -9.9 | (4.1) | 12.0 | -7.9 | | 9.8 | -5.7 | 9+00 | 11.0 | -6.9 | |
| | 12.5 | -8.4 | 50 | 10.5 | -6.4 | (4.1) | 9.5 | -5.4 | (4.1) | 12.1 | -8.0 | |
| | 12.0 | -7.9 | | 7.0 | -2.9 | | 9.5 | -5.4 | | 12.0 | -7.9 | |
| | 11.6 | -7.5 | | 4.6 | -0.5 | 50 | 10.5 | -6.4 | | 12.0 | -7.9 | |
| 7+00 | 10.8 | -6.7 | | 4.0 | +0.1 | | 10.8 | -6.7 | | 11.0 | -6.9 | |
| | 10.5 | -6.4 | | 3.6 | +0.5 | | 10.7 | -6.6 | 50 | 14.3 | -10.2 | |
| | 10.7 | -6.6 | 6+00 | 3.2 | +0.9 | | 11.0 | -6.9 | | 16.2 | -12.1 | |
| | 10.7 | -6.6 | | 3.0 | +1.1 | | 11.2 | -7.1 | 10:35 | 17.8 | -13.7 | |
| 10:28 | 10.5 | -6.4 | 10:30 | 2.7 | | | | | | | | |
| | | | | 3.7 | +1.4 | 8+00 | 11.4 | -7.3 | | | | |
| 50 | 10.4 | -6.3 | | 2.2 | +1.9 | 12:32 | 11.4 | -7.3 | | | | |
| | 10.5 | -6.4 | | 2.4 | +1.7 | | 11.5 | -7.4 | | | | |
| | 11.0 | -6.9 | 50 | 2.0 | +2.1 | | 12.0 | -7.9 | | | | |
| | 11.2 | -7.1 | | 2.0 | +2.1 | | 12.0 | -7.9 | | | | |
| | 11.0 | -6.9 | | 2.1 | +2.1 | 50 | 12.0 | -7.9 | | | | |
| 5+00 | 11.0 | -6.9 | 6+80 | 2.1 | +2.1 | 8+00 | 11.7 | -7.6 | | | | |

PX

PX

80+00

80+00

DIST

SOUND

DIST

SOUND

0+00 = { R-109+70
STA-80+00

SOUND EAST AT 90° To R/L

3+30 13.0 -8.8

DIST SOUND

DIST SOUND

12.0 -7.8

0+11 0.0 +4.2

+4.2

1+70 12.2 -8.0

50 11.5 -7.3

+20 2.1 +2.1

+2.1

12.2 -8.0

(4.2) 11.5 -7.3

10:52 7.0 -2.8

-2.8

12.1 -7.9

10:50 12.0 -7.8

(4.2)

10.1 -5.9

2+00 12.6 -8.4

11.5 -7.3

50 12.0 -7.8

-7.8

13.0 -8.8

11.3 -7.1

12.2 -8.0

13.3 -9.1

1+00 11.3 -

12.2 -8.0

13.8 -9.6

11.3 -

12.2 -8.0

13.4 -9.2

11.3 -7.1

12.5 -8.3

50 13.2 -9.0

11.4 -7.2

1+00 12.6 -8.4

-8.4

12.7 -8.5

10.5 -6.3

12.6 -8.4

12.3 -8.1

50 6.0 -1.8

12.6 -8.4

12.5 -8.3

1.2 +3.0

12.4 -8.2

13.0 -8.8

1+70 0.0 +4.2

12.4 -8.2

3+00 13.5 -9.3

11:00

50 12.4 -8.2

-8.2

13.6 -9.4

1+60 12.2 -8.0

-8.0

3+20 13.2 -9.0

10-21-47

PX

81+00

10-21-47

PX

81+00

10-21-47

11

0400 = $\left\{ \begin{array}{l} R-109+60 \\ STA-81+00 \end{array} \right\}$

SOUND EAST

AT 90°

7.7/4

3+30

13.1

-8.9

DIST SOUND

DIST SOUND

DIST SOUND

DIST SOUND

0+10

0.0

+4.2

1+70

12.5

-8.3

50

13.0

-8.8

120

2.1

+2.1

11:10

12.7

-8.5

(4.2)

13.1

-8.9

11:07

7.0

-2.8

(4.2)

12.7

-8.5

13.1

-8.9

(4.2)

11.0

-6.8

2+00

12.6

-8.9

13.1

-8.9

50

11.5

-7.3

12.5

-8.3

12.7

-8.5

12.8

-8.6

12.7

-8.5

4+00

13.2

-9.0

12.8

-8.6

12.7

-8.5

12.7

-8.5

12.5

-8.3

13.0

-8.9

10.5

-6.3

12.6

-8.4

50

13.2

-9.0

6.5

+0.5

-2.3

1+00

13.0

-8.8

13.1

-9.2

2.0

+2.2

12.8

-8.6

13.0

-8.1

50

0.6

+3.6

13.1

-8.9

13.2

-9.0

4+55

0.0

+4.2

13.1

-8.9

13.6

-9.4

11:15

12.7

-8.5

3+00

13.2

-9.0

50

12.6

-8.4

13.2

-9.0

1+60

12.6

-8.4

3+20

13.1

-8.9

2.40' E R-109

10-21-47

10-19-45

10-21-47

(12)

PX

82+00

78+00

PX

0+00 = ^{R-111+40}
STA-82+00

) SOUND EAST AT 90° To P/L

0+00 = ^{R-109+60}
STA-78+00

) SOUND WEST AT 90° To P/L

DIST SOUND

DIST SOUND

DIST SOUND

DIST SOUND

0+25

0.0

+4.2

1+80

3.1

+1.1

0+40

0.0

+4.4

2+00

9.1

-4.7

30

0.1
~~0.2~~

+4.1

(4.2)

1.1

+0.1

50

0.3

+4.1

12:48

9.5

-5.1

11:35

40

0.2

+4.0

2+00

2.6

+1.6

12:45

0.8

+3.6

11.0

-6.6

50

0.7

+3.5

2.2

+2.0

(4.4)

1.2

+3.2

(4.4)

11.9

-7.5

(4.2)

1.0

+3.2

1.7
+1.7

+2.5

2.0

+2.4

12.8

-8.4

1.0

+3.2

0.8

+3.4

2.4

+2.0

50

13.0

-8.6

1.3

+2.9

2+40

0.0

+4.2

1+00

3.2

+1.2

13.0

-8.6

1.5

+2.7

50

4.0

+0.4

4.0

+0.4

12.8

-8.4

1+00

1.5

+2.7

11:40

5.0

-0.6

5.0

-0.6

12.8

-8.4

2.4

+1.8

5.0

-0.6

5.0

-0.6

12.7

-8.3

3.5

+0.7

5.2

-0.8

3+00

12.7

-8.3

3.5

+0.7

50

6.6

-2.2

12:50

6.5

-2.1

3.0

+1.2

7.0

-2.6

7.0

-2.6

50

2.7

+1.5

7.2

-2.8

7.2

-2.8

3.4

+0.8

1+70

3.1

+1.1

1+90

2.5

-3.1

(210' W-105) 10-21-47
PX. 10250 79+00

0+00 = (R-102+30) STA-79+00) SOUND WEST AT 90° TO R/L.

| DIST | SOUND | DIST | SOUND |
|--------------|-----------|-------|-----------|
| 0+18 | 0.0 +9.4 | 1+80 | 13.0 -8.6 |
| +30 | 1.4 +3.0 | (4.9) | 13.8 -9.4 |
| <u>12:56</u> | 2.5 +1.9 | 2+00 | 13.8 -9.4 |
| 50 | 3.3 +1.1 | | |
| (4.4) | 4.6 -0.2 | | |
| | 5.0 -0.6 | | |
| | 5.5 -1.1 | | |
| | 6.1 -1.7 | | |
| 1+00 | 6.8 -2.4 | | |
| | 9.5 -5.1 | | |
| | 11.4 -7.0 | | |
| | 13.4 -9.0 | | |
| | 13.1 -8.7 | | |
| 50 | 13.2 -8.8 | | |
| | 13.1 -8.7 | | |
| 1+70 | 13.1 -8.7 | | |

(170' W-104) 10-21-47
PX. 10270 80+00

0+00 = (R-102+30) STA-80+00) SOUND WEST AT 90° TO R/L. (13)

| DIST | SOUND | DIST | SOUND |
|--------------|-----------|--------------|-----------|
| 0+17 | 0.0 +9.4 | 1+70 | 12.5 -8.1 |
| +20 | 0.2 +4.2 | | 12.6 -8.2 |
| <u>13:05</u> | 1.2 +3.2 | (4.4) | 12.6 -8.2 |
| (4.4) | 2.7 +1.7 | 2+00 | 12.7 -8.3 |
| 50 | 3.5 +0.9 | | 13.0 -8.6 |
| | 4.5 -0.1 | | 13.0 -8.6 |
| | 5.4 -1.0 | <u>13:09</u> | 13.1 -8.7 |
| | 6.4 -2.0 | | |
| | 7.5 -3.1 | 50 | |
| 1+00 | 8.3 -3.9 | | |
| | 9.7 -5.3 | | |
| | 10.8 -6.4 | | |
| | 13.0 -8.6 | | |
| | 13.0 -8.6 | | |
| 50 | 13.0 -8.6 | | |
| 1+60 | 12.8 -8.4 | | |

2104-101
210

RX

81400

0+00 = {^{R-101+80}_{STA-81400}} SOUND WEST AT 90° TO R/L

| DIST | SOUND | DIST | SOUND |
|--------------|-----------|--------------|-----------|
| 6+23 | 0.0 +4.4 | 1+80 | 12.0 -7.6 |
| +30 | 0.6 +3.8 | <u>13:18</u> | 12.2 -7.8 |
| <u>13:15</u> | 1.4 +3.0 | 2+00 | 12.2 -7.8 |
| 50 | 2.0 +2.4 | | 12.3 -7.9 |
| (4.4) | 3.0 +1.4 | (4.4) | 13.0 -8.6 |
| | 4.7 -0.3 | | 12.8 -8.4 |
| | 6.5 -2.1 | | 12.7 -8.3 |
| | 7.3 -2.9 | 50 | 12.7 -8.3 |
| 1+00 | 8.4 -4.0 | | |
| | 9.6 -5.2 | | |
| | 11.0 -6.6 | | |
| | 11.5 -7.1 | | |
| | 12.1 -7.7 | | |
| 50 | 12.0 -7.6 | | |
| | 11.5 -7.1 | | |
| 1+70 | 11.5 -7.1 | | |

10-21-97

RX

82400

0+00 = {^{R-101+70}_{STA-82400}} SOUND WEST AT 90° TO R/L

| DIST | SOUND | DIST | SOUND |
|--------------|-----------|--------------|-----------|
| 6+18 | 0.0 +4.5 | 1+80 | 11.6 -7.1 |
| +20 | 1.3 +3.2 | | 11.5 -7.0 |
| <u>13:27</u> | 2.4 +2.1 | 2+00 | 12.0 -7.5 |
| 50 | 3.6 +0.9 | | 11.7 -7.2 |
| (4.5) | 5.0 -0.5 | (4.5) | 11.7 -7.2 |
| | 7.1 -2.6 | | 12.0 -7.5 |
| | 8.0 -3.5 | | 12.0 -7.5 |
| | 8.5 -4.0 | 50 | 12.0 -7.5 |
| 1+00 | 9.7 -5.2 | <u>13:30</u> | |
| | 11.0 -6.5 | | |
| | 11.3 -6.8 | | |
| | 11.8 -7.3 | | |
| | 12.0 -7.5 | | |
| 50 | 11.5 -7.0 | | |
| | 11.5 -7.0 | | |
| 1+70 | 11.6 -7.1 | | |

10-21-97

(7)

(230' W 109)
230
10170
83+00
10-21-47
R-101+70
(STA-83+00) SOUND WEST AT 90° TO R/L.

| DIST | SOUND | | DIST | SOUND | |
|--------------|-------|------|--------------|-------|------|
| 0+15 | 0.0 | +4.5 | 1770 | 11.7 | -7.2 |
| +20 | 0.5 | +4.0 | | 11.8 | -7.3 |
| <u>13:35</u> | 1.5 | +3.0 | (4.5) | 11.7 | -7.2 |
| (4.5) | 2.8 | +1.7 | 2+00 | 11.7 | -7.2 |
| 50 | 3.4 | +1.1 | <u>13:40</u> | 11.5 | -7.0 |
| | 6.2 | -1.7 | | 11.3 | -6.8 |
| | 7.0 | -2.5 | | 11.3 | -6.8 |
| | 7.3 | -2.8 | | 11.2 | -6.7 |
| | 7.8 | -3.3 | 50 | 11.2 | -6.7 |
| 1+00 | 9.0 | -4.5 | | 11.2 | -6.7 |
| | 9.5 | -5.0 | | 11.1 | -6.6 |
| | 10.1 | -5.6 | | 11.1 | -6.6 |
| | 10.6 | -6.1 | | 11.1 | -6.6 |
| | 10.8 | -6.3 | 3+00 | 11.2 | -6.7 |
| 50 | 11.2 | -6.7 | | | |
| 1+60 | 11.7 | -7.2 | | | |

(230' W 109)
230
10170
83+00
10-21-47
R-102+00
(STA-84+00) SOUND WEST AT 90° TO R/L.

| DIST | SOUND | | DIST | SOUND | |
|--------------|-------|------|--------------|-------|------|
| 0+13 | 0.0 | +4.5 | 1770 | 11.8 | -7.3 |
| +20 | 0.5 | +4.0 | | 11.8 | -7.3 |
| <u>13:43</u> | 1.5 | +3.0 | (4.5) | 11.8 | -7.3 |
| (4.5) | 3.0 | +1.5 | 2+00 | 11.7 | -7.2 |
| 50 | 5.0 | -0.5 | <u>13:53</u> | 11.3 | -6.8 |
| | 6.7 | -2.2 | | 11.3 | -6.8 |
| | 7.5 | -3.0 | | 11.3 | -6.8 |
| | 8.0 | -3.5 | | 12.0 | -7.5 |
| | 8.2 | -3.7 | 50 | 12.2 | -7.7 |
| 1+00 | 8.2 | -3.7 | | 12.2 | -7.7 |
| | 8.3 | -3.8 | | | |
| | 9.3 | -5.8 | | | |
| | 10.4 | -5.9 | | | |
| | 10.7 | -6.2 | | | |
| 50 | 11.2 | -6.7 | | | |
| 1+60 | 11.4 | -6.9 | | | |

150W 104

P*

85+00

10-21-47

150W 104

P.X

86+00

10-21-47

(16)

0+00 = {R-102+50
SRA-85+00} SOUND WEST AT 90° To R/L

0+00 = {R-103+00
SRA-86+00} SOUND WEST AT 90° To R/L

| DIST | SOUND | | DIST | SOUND | |
|-------|-------|------|-------|-------|------|
| 0+12 | 0.0 | +4.5 | 1+70 | 10.7 | -6.2 |
| 20 | 1.3 | +3.2 | 19:03 | 11.0 | -6.5 |
| 19:00 | 2.0 | +2.5 | (4.5) | 11.0 | -6.5 |
| (4.5) | 2.7 | +1.8 | 2+00 | 11.5 | -7.0 |
| 50 | 3.5 | +1.0 | | 12.0 | -7.5 |
| | 4.8 | -0.3 | | 12.1 | -7.6 |
| | 6.0 | -1.5 | | 12.2 | -7.7 |
| | 7.0 | -2.5 | | 12.2 | -7.7 |
| | 7.4 | -2.9 | 50 | 12.2 | -7.7 |
| 1+00 | 7.7 | -2.9 | 19:05 | | |
| | 8.0 | -3.5 | | | |
| | 9.1 | -4.9 | | | |
| | 9.7 | -4.9 | | | |
| | 9.7 | -4.9 | | | |
| 50 | 10.2 | -5.7 | | | |
| 1+60 | 10.5 | -6.0 | | | |

| DIST | SOUND | | DIST | SOUND | |
|-------|-------|------|-------|-------|------|
| 0+10 | 0.0 | +4.5 | 1+70 | 11.0 | -6.5 |
| 20 | 1.0 | +3.5 | | 11.0 | -6.5 |
| 19:00 | 1.5 | +3.0 | (4.5) | 11.3 | -6.8 |
| (4.5) | 3.7 | +0.8 | 2+00 | 11.8 | -7.3 |
| 50 | 5.0 | -0.5 | | 11.8 | -7.3 |
| | 6.0 | -1.5 | 19:15 | 12.0 | -7.5 |
| | 6.7 | -2.2 | | 12.5 | -8.0 |
| | 7.4 | -2.9 | | 12.7 | -8.2 |
| | 8.0 | -3.5 | 50 | 12.8 | -8.3 |
| 1+00 | 8.9 | -3.9 | | | |
| | 9.0 | -4.5 | | | |
| | 9.3 | -4.8 | | | |
| | 9.3 | -4.8 | | | |
| | 9.3 | -4.8 | | | |
| 50 | 9.8 | -5.3 | | | |
| 1+60 | 10.9 | -6.4 | | | |

(80°W - 104)

10-21-47

PX

87+00

0400 = $\begin{cases} R-103+20 \\ STA-87+00 \end{cases}$) SOUND WEST AT 90° TO P/L.

| DIST | SOUND | | DIST | SOUND | |
|-------|-------|------|-------|-------|------|
| 0409 | 0.0 | +4.5 | 1470 | 11.3 | -6.8 |
| 20 | 1.1 | +3.4 | 14:25 | 11.3 | -6.8 |
| 14:21 | 3.4 | +1.1 | 30 | 11.3 | -6.8 |
| (4.5) | 1.6 | -0.1 | 2+00 | 12.4 | -7.9 |
| 50 | 5.6 | -1.1 | (4.5) | 12.5 | -8.0 |
| | 6.8 | -2.3 | | 13.0 | -8.5 |
| | 7.3 | -2.8 | | 13.0 | -8.5 |
| 14:23 | 7.3 | -2.8 | | 13.5 | -9.0 |
| | 8.0 | -3.5 | 50 | 13.1 | -8.6 |
| 14:00 | 9.0 | -4.3 | | | |
| | 9.2 | -4.7 | | | |
| | 9.4 | -4.9 | | | |
| | 9.5 | -5.0 | | | |
| | 10.5 | -6.0 | | | |
| 50 | 10.8 | -6.3 | | | |
| 14:60 | 11.0 | -6.5 | | | |

10-21-47

(17)

PX

88+00

0400 = $\begin{cases} R-103+00 \\ STA-88+00 \end{cases}$) SOUND WEST AT 90° TO P/L.

| DIST | SOUND | | DIST | SOUND | |
|-------|-------|------|-------|-------|------|
| 0408 | 0.0 | +4.5 | 1470 | 13.3 | -8.8 |
| 20 | 1.8 | +2.7 | 14:20 | 12.8 | -8.3 |
| | 3.2 | +1.3 | (4.5) | 12.0 | -7.5 |
| (4.5) | 4.0 | +0.5 | 2+00 | 12.1 | -7.6 |
| 50 | 5.5 | -1.0 | | 12.5 | -8.0 |
| | 6.4 | -1.9 | | 12.7 | -8.2 |
| | 7.0 | -2.5 | | 13.0 | -8.5 |
| | 6.8 | -2.3 | | 12.7 | -8.2 |
| | 7.0 | -2.5 | 50 | 12.7 | -8.2 |
| 14:00 | 7.8 | -3.3 | | | |
| | 8.2 | -3.7 | | | |
| 14:25 | 9.2 | -4.7 | | | |
| | 10.3 | -5.8 | | | |
| | 12.2 | -7.7 | | | |
| 50 | 13.0 | -8.5 | | | |
| 14:60 | 13.3 | -8.8 | | | |

150w - 98
150
3650

PX

92+00

10-21-47

10-21-47

PX

93+00

10-21-47

(18)

10+00 = 96+50) SOUND WEST AT 90° T. R/L.

10+00 = 95+90) SOUND WEST AT 90° T. R/L.

| DIST | SOUND | | DIST | SOUND | | DIST | SOUND | | DIST | SOUND | |
|--------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|-------|------|
| 0+05 | 0.0 | +4.3 | 1460 | 13.0 | -8.5 | 0+01 | 0.0 | +4.5 | 1460 | 14.0 | -9.5 |
| 10 | 0.5 | +4.0 | | 13.4 | -8.9 | 100 | 0.9 | +3.6 | (4.5) | 14.0 | -9.5 |
| <u>14:50</u> | 1.5 | +3.0 | (4.5) | 13.7 | -9.2 | <u>14:03</u> | 2.1 | +2.4 | <u>15:08</u> | | |
| (4.5) | 3.0 | +1.5 | | 13.5 | -9.0 | (4.5) | 4.1 | +0.4 | | | |
| | 4.1 | +0.4 | 2+00 | 13.5 | -9.0 | | 5.0 | -0.5 | 2+00 | | |
| 50 | 5.0 | -0.5 | <u>14:57</u> | | | 50 | 5.8 | -1.3 | | | |
| | 5.5 | -1.0 | | | | | 6.1 | -1.6 | | | |
| | 5.8 | -1.3 | | | | | 7.0 | -2.5 | | | |
| <u>14:53</u> | 6.8 | -2.3 | | | | | 7.1 | -2.6 | | | |
| | 8.0 | -3.5 | | | | | 8.0 | -3.5 | | | |
| 1+00 | 8.2 | -3.7 | | | | 1+00 | 9.3 | -4.8 | | | |
| | 9.5 | -5.0 | | | | | 11.5 | -7.0 | | | |
| | 10.0 | -5.5 | | | | | 12.0 | -7.5 | | | |
| | 11.0 | -6.5 | | | | | 12.0 | -7.5 | | | |
| | 12.5 | -8.0 | | | | | 14.0 | -9.5 | | | |
| 1+50 | 13.0 | -8.5 | | | | 1+50 | 14.0 | -9.5 | | | |

(240' W - 58)

20-21-47

BARBARAN
SMERRY
STANLEY

10-23-47

(19)

PK

240
5560

94+00

X-SECTIONS OF EAST HALF TIERRA DEL FUEGO ISLAND

0+00 = { P-95+60
STA-94+00 } SOUND WEST AT 90° TO R/L

81+00

Indexed

DIST SOUND DIST SOUND STA + H.I. - ELEV
81+00 = STA-81+00 WEST CAUSEWAY B/L; SECTIONS AT 81°40' TO B/L.

| DIST | SOUND | DIST | SOUND | STA | H.I. | ELEV |
|-------|----------------|------|-------|------|------|------|
| 0+13 | 0.0 | +4.5 | 1470 | 12.0 | -7.5 | |
| +20 | 0.9 | +3.6 | | 12.2 | -7.7 | |
| 15:14 | 2.2 | | | | | |
| | 0.9 | +2.3 | (4.5) | 12.7 | -8.2 | |
| (1.5) | 3.7 | | | | | |
| | 2.2 | +0.8 | 2+00 | 12.7 | -8.2 | |
| | 5.1 | | | | | |
| 50 | 3.7 | -0.6 | 15:20 | | | |
| | 6.1 | | | | | |
| 50 | 5.1 | -1.6 | | | | |
| | 6.7 | -2.2 | | | | |
| | 7.0 | -2.5 | | | | |
| | 7.2 | -2.7 | | | | |
| 1+00 | 7.3 | -2.8 | | | | |
| | 8.5 | -4.0 | | | | |
| | 10.0 | -5.5 | | | | |
| | 11.2 | -6.7 | | | | |
| | 11.8 | -7.3 | | | | |
| 50 | 11.8 | -7.3 | | | | |
| 1+60 | 12.0 | -7.5 | | | | |

16.08
15.08

STA -
82+00 W/O/B/L

82+00

10-23-17

82+00

0+00 = STA-82+00 w/ CAUSEWAY #4; SECT. AT 91°40' To #4.

| STA- | + | H.I. | - | ELEV | STA- |
|-------|------|-------|---|-------|----------|
| T.B.M | 5.00 | 16.05 | | 11.05 | 83+00.50 |

E 2+15 11.2 4.8

E 2+08 6.8 9.2

E 2+02 9.0 12.0

E 1+97 3.1 12.9

E 1+65 4.6 11.4

E 1+20 5.3 10.7

E 0+82 5.1 10.9

E 0+42 5.5 10.5

T.B.M 5.05 16.08 X 11.03 81+00

E 1+93 4.4 11.6

E 2+00 2.0 14.0

10-23-17

83+00

0+00 = STA-83+00 w/ CAUSEWAY #4; SECT. AT 90° To #4.

| STA- | + | H.I. | - | ELEV |
|-------|------|-------|---|-------------|
| T.B.M | 5.05 | 16.10 | | 11.05 84+00 |

E 0+92 5.1 11.0

E 0+55 5.4 10.7

E 0+37 5.7 10.4

E 1+33 5.3 10.8

E 2+05 4.9 11.2

E 3+57 3.5 12.6

E 2+93 3.2 12.9

E 2+02 3.8 12.3

E 2+15 11.4 4.7

T.B.M 5.35 16.30 10.95 82+00

E 2+90 4.6 11.7

E 2+26 1.4 14.9

(20)

84+00

85+00

10-23-17

(21)

0+00=STA-84+00 E/CAUSEWAY B/L. SECT. AT 81°40' TO 1/4

0+00=STA-85+00 E/CAUSEWAY B/L. SECT. AT 81°40' TO 1/4

| STA | + | H.I. | - | ELEV |
|--------|------|-------|------|------------------------|
| T.B.M. | 5.45 | 16.50 | | 11.05 ₈₄₊₀₀ |
| E 3+56 | | | 11.7 | 4.8 |
| E 3+17 | | | 5.9 | 10.6 |
| E 3+10 | | | 4.7 | 11.8 |
| E 2+98 | | | 4.6 | 11.9 |
| E 2+91 | | | 5.3 | 11.2 |
| E 1+85 | | | 5.6 | 10.9 |
| E 1+37 | | | 6.3 | 10.2 |
| E 0+70 | | | 5.5 | 11.0 |
| E 0+10 | | | 5.6 | 10.9 |
| 0+00 | | | 5.2 | 11.3 |
| T.B.M. | 5.35 | 16.40 | | 11.05 ₈₃₊₀₀ |
| E 3+42 | | | 5.3 | 11.1 |
| E 3+45 | | | 3.7 | 12.7 |

| STA | + | H.I. | - | ELEV |
|--------|------|-------|------|------------------------|
| T.B.M. | 5.29 | 16.44 | | 11.15 ₈₅₊₀₀ |
| 0+00 | | | 5.1 | 11.3 |
| E 0+09 | | | 5.5 | 10.9 |
| E 0+55 | | | 6.1 | 10.3 |
| E 1+07 | | | 6.5 | 9.9 |
| E 1+70 | | | 6.2 | 10.2 |
| E 2+00 | | | 6.0 | 10.4 |
| E 2+35 | | | 6.4 | 10.0 |
| E 3+00 | | | 6.8 | 9.6 |
| E 3+32 | | | 5.5 | 10.9 |
| E 4+30 | | | 6.7 | 9.7 |
| E 4+33 | | | 5.8 | 10.6 |
| E 4+36 | | | 3.2 | 13.2 |
| E 4+42 | | | 11.7 | 4.7 |

86+00

10-23-47

0+00 = STA 86+00 W/CAUSEWAY 8/4. SECT AT 81°40' TO 7/4.

| STA | + | H.I. | - | ELEV |
|--------|------|-------|------|-------------|
| T.B.M | 5.35 | 16.50 | | 11.15 85+00 |
| E 5+25 | | | 11.2 | 5.3 |
| E 5+17 | | | 7.5 | 12.0 |
| E 5+11 | | | 6.9 | 10.1 |
| E 4+60 | | | 5.2 | 11.3 |
| E 4+40 | | | 6.8 | 9.7 |
| E 4+05 | | | 7.1 | 9.4 |
| E 3+45 | | | 6.9 | 10.1 |
| E 3+02 | | | 6.7 | 9.8 |
| E 2+55 | | | 7.0 | 9.5 |
| E 1+95 | | | 7.1 | 9.4 |
| E 1+35 | | | 6.9 | 9.6 |
| E 1+05 | | | 6.9 | 10.1 |
| E 0+57 | | | 5.7 | 10.8 |
| E 0+42 | | | 5.2 | 11.3 |

10-22-47

87+00

(22)

0+00 = STA 87+00 W/CAUSEWAY 8/4. SECT AT 81°40' TO 8/4.

| STA | + | H.I. | - | ELEV |
|--------|------|-------|------|-------------|
| T.B.M | 5.11 | 16.45 | | 11.34 86+00 |
| E 0+72 | | | 5.1 | 11.3 |
| E 0+55 | | | 5.2 | 11.2 86+5 |
| E 0+33 | | | 5.9 | 11.0 |
| E 0+26 | | | 6.0 | 10.4 |
| E 1+28 | | | 6.9 | 9.5 |
| E 1+66 | | | 7.0 | 9.4 |
| E 2+12 | | | 6.5 | 9.9 |
| E 2+36 | | | 6.5 | 9.9 |
| E 3+08 | | | 7.0 | 9.4 |
| E 3+20 | | | 6.3 | 10.1 |
| E 7+60 | | | 6.6 | 9.8 |
| E 3+80 | | | 5.8 | 10.6 |
| E 4+05 | | | 4.8 | 11.6 |
| E 4+25 | | | 4.8 | 11.6 |
| E 4+42 | | | 5.2 | 11.2 |
| E 4+50 | | | 2.7 | 13.7 |
| E 4+65 | | | 11.1 | 5.3 |

88+00

10-23-97

0+00 = 88+00 w/ CAUSEWAY B/LI SECT. AT 90° TO B/LI.

| STA | + | H.I. | - | ELEV |
|--------|------|-------|------|-------------|
| T.B.M | 5.05 | 16.41 | | 11.36 87+00 |
| E 3+96 | | | 11.0 | 5.4 |
| E 3+82 | | | 3.4 | 13.0 |
| E 3+80 | | | 5.7 | 10.7 |
| E 3+55 | | | 5.7 | 10.7 |
| E 3+30 | | | 6.5 | 9.9 |
| E 2+85 | | | 5.9 | 10.5 |
| E 2+30 | | | 6.4 | 10.0 |
| E 2+15 | | | 6.0 | 10.4 |
| E 1+80 | | | 6.5 | 9.9 |
| E 1+40 | | | 6.2 | 10.2 |
| E 1+05 | | | 6.7 | 9.7 |
| E 0+80 | | | 6.4 | 10.0 |
| E 0+56 | | | 6.0 | 10.4 |
| E 0+51 | | | 5.3 | 11.1 |
| E 0+42 | | | 5.0 | 11.4 |

89+00

10-23-97

(23)

0+00 = STA-89+00 w/ CAUSEWAY B/LI SECT. AT 90° TO B/LI.

| STA | + | H.I. | - | ELEV |
|--------|------|-------|------|-------------|
| T.B.M | 5.24 | 16.48 | | 11.24 88+00 |
| E 0+42 | | | 5.2 | 11.2 |
| E 0+51 | | | 5.5 | 10.9 |
| E 0+75 | | | 5.7 | 10.7 |
| E 1+02 | | | 6.5 | 9.9 |
| E 1+32 | | | 6.0 | 10.4 |
| E 1+62 | | | 6.5 | 9.9 |
| E 1+95 | | | 6.9 | 9.5 |
| E 2+25 | | | 6.2 | 10.2 |
| E 2+55 | | | 6.8 | 9.6 |
| E 2+80 | | | 6.8 | 9.6 |
| E 3+15 | | | 7.1 | 9.3 |
| E 3+20 | | | 6.3 | 10.1 |
| E 3+45 | | | 5.1 | 11.3 |
| E 3+53 | | | 5.2 | 11.2 |
| E 3+63 | | | 11.0 | 5.4 |

10-23-97

90+00

~~0+00 STA~~ 90+00 W/CAUSEWAY R/L: SECT. AT 81° 40' TO B/L.

| STA | + | H.I. | - | ELEV |
|--------|------|-------|------|-------|
| T.B.M. | 1.75 | 15.90 | | 11.15 |
| E 5+00 | | | 10.6 | 5.3 |
| E 4+88 | | | 9.9 | 6.0 |
| E 4+75 | | | 7.0 | 11.9 |
| E 4+60 | | | 5.9 | 10.0 |
| E 4+45 | | | 6.8 | 9.1 |
| E 4+15 | | | 5.6 | 10.3 |
| E 3+80 | | | 6.5 | 9.4 |
| E 3+50 | | | 7.6 | 8.3 |
| E 3+15 | | | 7.9 | 8.0 |
| E 2+66 | | | 6.9 | 9.0 |
| E 2+10 | | | 5.4 | 10.5 |
| E 1+67 | | | 6.3 | 9.6 |
| E 1+25 | | | 5.7 | 10.2 |
| E 0+82 | | | 5.7 | 10.2 |
| E 0+55 | | | 5.5 | 10.4 |
| E 0+50 | | | 4.7 | 11.2 |
| E 0+12 | | | 4.5 | 11.4 |

10-23-97

91+00

91+00 W/CAUSEWAY R/L: SECT. AT 81° 40' TO B/L.

| STA | + | H.I. | - | ELEV |
|--------|------|-------|------|-------|
| T.B.M. | 4.45 | 15.60 | | 11.15 |
| E 0+42 | | | 4.5 | 11.1 |
| E 0+53 | | | 4.8 | 10.8 |
| E 0+73 | | | 5.2 | 10.4 |
| E 1+15 | | | 5.9 | 10.2 |
| E 1+85 | | | 6.7 | 9.2 |
| E 2+90 | | | 6.7 | 8.9 |
| E 3+22 | | | 7.7 | 7.9 |
| E 3+75 | | | 8.5 | 7.1 |
| E 4+00 | | | 8.5 | 7.1 |
| E 4+65 | | | 8.8 | 6.8 |
| E 5+05 | | | 9.0 | 6.6 |
| E 5+25 | | | 9.5 | 6.1 |
| E 5+52 | | | 9.7 | 5.9 |
| E 6+65 | | | 8.2 | 7.4 |
| E 7+5 | | | 3.3 | 12.3 |
| E 8+0 | | | 10.9 | 4.7 |

(27)

92+00

0+00 = 92+00 W/CAUSEWAY B/L. SECT. AT 81°40' To B/L

| T.B.M | 1.69 | 15.66 | 10.97 | 93+01 |
|-----------|------|-------|-------|-------|
| E 7+04 | | | | |
| E 2(3+52) | | | 10.4 | 5.2 |
| E 6+95 | | | 2.9 | 12.7 |
| E 6+80 | | | 8.4 | 7.2 |
| E 6+15 | | | 9.0 | 6.6 |
| E 5+60 | | | 9.9 | 5.7 |
| E 5+02 | | | 9.5 | 6.1 |
| E 4+43 | | | 9.1 | 6.5 |
| E 3+90 | | | 8.4 | 7.2 |
| E 3+25 | | | 7.7 | 7.9 |
| E 2+65 | | | 7.2 | 8.4 |
| E 2+15 | | | 5.6 | 10.0 |
| E 1+50 | | | 5.3 | 10.3 |
| E 0+95 | | | 5.6 | 10.0 |
| E 0+65 | | | 5.1 | 10.5 |
| E 0+42 | | | 4.6 | 11.0 |

93+00

0+00 = 93+00 W/CAUSEWAY B/L. SECT. AT 81°40' To B/L

| STA- | + | H.I. | - | ELEV |
|-----------|------|-------|------|-------------|
| T.B.M | 4.76 | 15.76 | | 11.00 92+00 |
| E 4+2 | | | 4.6 | 11.1 |
| E 3+55 | | | 5.7 | 10.0 |
| E 3+08 | | | 5.9 | 10.3 |
| E 2+60 | | | 6.1 | 9.3 |
| E 2+25 | | | 6.1 | 9.6 |
| E 1+10 | | | 7.5 | 8.2 |
| E 3+70 | | | 8.0 | 7.7 |
| E 9+20 | | | 8.6 | 7.1 |
| E 4+30 | | | 9.2 | 6.5 |
| E 5+55 | | | 9.8 | 5.9 |
| E 6+60 | | | 10.6 | 5.1 |
| E 6+75 | | | 9.2 | 6.5 |
| E 7+30 | | | 8.2 | 7.5 |
| E 8+00 | | | 8.2 | 7.5 |
| E 8+10 | | | 3.4 | 12.3 |
| E 2(4+10) | | | 10.5 | 5.2 |
| E 2(4+30) | | | 12.2 | 3.5 |
| E 2(4+30) | | | 12.2 | 3.5 |

93+00

PX

0+00 = STA 93+00 W/CAUSEWAY D/L: SECT. AT 81°40' To D/L.

| STA | + | H.I. | - | ELEV |
|---------|---|-------|------|------|
| 2(5+15) | | 15.76 | | |
| | | | 10.0 | 5.7 |
| 10+35 | | | 4.9 | 11.3 |
| 2(5+22) | | | 9.3 | 6.4 |
| 2(5+50) | | | 10.0 | 5.7 |
| 2(5+85) | | | 10.2 | 5.5 |
| 2(6+25) | | | 10.7 | 5.0 |
| 2(6+48) | | | 10.0 | 5.7 |
| 2(6+55) | | | 7.2 | 8.5 |
| 3(6+60) | | | 11.1 | 4.6 |

94+00

PX

0+00 = STA 94+00 W/CAUSEWAY D/L: SECT. AT 81°40' To D/L.

| STA | + | H.I. | - | ELEV |
|----------|------|-------|------|-------------|
| T.B.M | 4.85 | 15.82 | | 10.97 93+00 |
| 2(6+80) | | | 10.0 | 5.8 |
| 2(6+90) | | | 10.1 | 5.7 |
| 2(6+100) | | | 9.8 | 6.0 |
| 2(6+110) | | | 9.1 | 6.7 |
| 2(6+120) | | | 8.9 | 6.9 |
| 2(6+130) | | | 9.1 | 6.7 |
| 2(6+140) | | | 9.7 | 6.1 |
| 2(6+150) | | | 10.2 | 5.6 |
| 2(6+160) | | | 9.2 | 6.6 |
| 2(6+175) | | | 8.6 | 7.2 |
| 2(6+190) | | | 9.9 | 5.9 |
| 2(6+205) | | | 10.8 | 5.0 |
| 2(6+220) | | | 10.3 | 5.5 |
| 2(6+230) | | | 8.7 | 7.1 |
| 2(6+240) | | | 11.5 | 4.3 |

97+00

95+00

1000-270-95+00 W/RAILWAY 1/4 Sect. AT 81° 40' To T/L.

| STA | H.I. | - | ELEV |
|--------|-------|------|------|
| E 7+00 | 15.82 | 10.9 | 4.9 |
| E 6+50 | | 10.5 | 5.3 |
| E 6+00 | | 10.0 | 5.8 |
| E 5+40 | | 9.5 | 6.3 |
| E 4+75 | | 9.3 | 6.5 |
| E 4+60 | | 8.4 | 7.4 |
| E 4+20 | | 7.5 | 7.3 |
| E 3+75 | | 6.7 | 9.1 |
| E 3+35 | | 6.6 | 9.2 |
| E 2+85 | | 6.0 | 9.8 |
| E 2+45 | | 6.2 | 9.6 |
| E 2+05 | | 5.9 | 9.9 |
| E 1+70 | | 5.6 | 10.2 |
| E 1+30 | | 5.5 | 10.3 |
| E 0+87 | | 5.2 | 10.6 |
| E 0+65 | | 5.3 | 10.5 |
| E 0+42 | | 4.5 | 11.3 |

| STA | H.I. | - | ELEV |
|--------|------|-------|-------|
| T.B.M | 5.01 | 16.12 | 11.11 |
| E 0+72 | | 4.7 | 11.4 |
| E 0+51 | | 4.9 | 11.2 |
| E 4+08 | | 5.1 | 11.0 |
| E 1+72 | | 6.0 | 10.1 |
| E 2+55 | | 7.3 | 8.8 |
| E 3+10 | | 7.9 | 8.2 |
| E 3+80 | | 8.6 | 7.5 |
| E 4+55 | | 6.7 | 9.4 |
| E 5+15 | | 8.0 | 8.1 |
| E 5+80 | | 10.0 | 6.1 |
| E 6+60 | | 11.3 | 4.8 |
| E 7+40 | | 11.6 | 4.5 |
| E 8+35 | | 11.9 | 4.2 |
| E 9+10 | | 11.6 | 4.5 |

95+00

STA + H.I. - ELEV

T.B.M. 16.12

| STA | H.I. | ELEV |
|---------|------|------|
| E 9+90 | 9.5 | 6.6 |
| E 10+60 | 8.4 | 7.7 |
| E 11+35 | 10.2 | 5.9 |
| E 12+30 | 12.0 | 4.1 |
| E 13+20 | 11.3 | 4.8 |
| E 13+80 | 11.8 | 4.3 |
| E 15+70 | 12.1 | 4.0 |

STA 96+00

520 = STA W/ Contouring 13/4 81°40' Top L.

STA + H.I. - ELEV

T.B.M. 5.13 16.34 11.21 95+00

| STA | H.I. | ELEV |
|------|------|------|
| 7+80 | 12.2 | 4.1 |
| 7+15 | 12.0 | 4.3 |
| 6+20 | 11.6 | 4.7 |
| 5+70 | 11.0 | 5.3 |
| 5+20 | 9.7 | 6.6 |
| 4+50 | 9.8 | 6.5 |
| 3+65 | 8.9 | 7.4 |
| 2+75 | 8.0 | 8.3 |
| 2+10 | 6.7 | 9.6 |
| 1+45 | 5.8 | 10.5 |
| 0+83 | 5.0 | 11.3 |
| 0+40 | 4.9 | 11.4 |

97+00

98+00

| STA | + | H.I. | - | ELEV. |
|--------|------|-------|------|-------|
| T.B.M. | 5.05 | 16.40 | | 11.35 |
| E 42 | | | 4.8 | 11.6 |
| E 56 | | | 6.1 | 11.3 |
| E 100 | | | 5.1 | 11.3 |
| E 150 | | | 6.0 | 10.4 |
| E 203 | | | 6.5 | 9.9 |
| E 250 | | | 7.1 | 9.3 |
| E 295 | | | 8.1 | 8.3 |
| E 360 | | | 9.2 | 7.2 |
| E 415 | | | 9.4 | 7.0 |
| E 480 | | | 10.4 | 6.0 |
| E 545 | | | 10.8 | 5.6 |
| E 605 | | | 11.3 | 5.1 |
| E 670 | | | 11.6 | 4.8 |
| E 720 | | | 11.8 | 4.6 |
| E 770 | | | 12.0 | 4.4 |

96+00

| Sta | + | H.I. | - | Elev. |
|--------|------|-------|------|-------|
| T.B.M. | 5.20 | 16.67 | | 11.47 |
| E 740 | | | 12.2 | 4.4 |
| E 700 | | | 11.2 | 5.4 |
| E 650 | | | 11.5 | 5.1 |
| E 595 | | | 11.2 | 5.4 |
| E 555 | | | 11.1 | 5.5 |
| E 510 | | | 10.8 | 5.8 |
| E 475 | | | 10.7 | 5.9 |
| E 430 | | | 10.4 | 6.2 |
| E 395 | | | 9.9 | 6.7 |
| E 365 | | | 9.9 | 6.7 |
| E 320 | | | 9.2 | 7.4 |
| E 270 | | | 8.7 | 7.9 |
| E 230 | | | 8.2 | 8.4 |
| E 200 | | | 7.9 | 8.7 |
| E 165 | | | 7.2 | 9.4 |

97+00

10-27-41

BARRAGAN
SANTA
CRUZ
11-3-47

944

(30)

ORIGINAL SOUNDINGS OF PROJ-3-1 - PATERA ISLAND
STA-131+00

STA-131+00 ON PATERA ISLAND: SOUND WEST AT 90° TO B/L.

| Sta | + | 98+00 | - | Etc. |
|-------|---|-------|-----|------|
| E 130 | | 16.67 | 6.3 | 10.3 |
| E 105 | | | 5.8 | 10.8 |
| E 85 | | | 4.8 | 11.8 |
| E 55 | | | 4.7 | 11.9 |
| E 42 | | | 4.9 | 11.7 |

| | DIST | SOUND | | DIST | SOUND |
|--|----------|-------|------|-------|------------|
| | 0+00 | 3.1 | +1.8 | 1+60 | 10.1 - 4.9 |
| | 03:33+10 | 3.4 | — | | 10.5 - 5.3 |
| | | 3.5 | +1.7 | | 10.8 - 5.6 |
| | (5.2) | 3.6 | +1.6 | (5.2) | 10.6 - 5.4 |
| | | 3.6 | — | 2+00 | 10.0 - 4.8 |
| | 50 | 7.0 | +1.2 | | 9.5 - 4.3 |
| | | 7.0 | — | | 9.0 - 3.8 |
| | | 7.0 | — | | 7.8 - 2.6 |
| | | 7.1 | +1.1 | | 6.6 - 1.4 |
| | | 7.5 | +0.7 | 50 | 6.1 - 0.9 |
| | 1+00 | 5.1 | +0.1 | | 5.6 - 0.4 |
| | | 6.8 | -1.6 | | 5.4 - 0.2 |
| | | 7.5 | -2.3 | | 5.4 — |
| | | 8.2 | -3.0 | | 5.6 - 0.4 |
| | | 9.1 | -3.9 | 3+00 | 5.7 - 0.5 |
| | 1+50 | 8.8 | -4.6 | 3+10 | 5.6 - 0.4 |

| 131+00 | | | 11-3-47 | | | 131+00 | | | 11-3-47 | | | (3) |
|--------|-------|------|---------|-------|------|--------|-------|------|---------|-------|------|-----|
| DIST | SOUND | | DIST | SOUND | | DIST | SOUND | | DIST | SOUND | | |
| 3+20 | 5.6 | -0.4 | 5+00 | 5.1 | +0.1 | 6+80 | 5.1 | -0.2 | 8+60 | 5.5 | -0.3 | |
| (5.2) | 5.5 | -0.3 | | 5.1 | — | (5.2) | 5.3 | -0.1 | | 5.5 | — | |
| | 5.4 | -0.2 | (5.2) | 5.1 | — | 7+00 | 5.3 | — | (5.2) | 5.5 | — | |
| 50 | 5.3 | -0.1 | | 5.1 | — | | 5.2 | 0.0 | | 5.5 | — | |
| | 5.2 | 0.0 | | 5.1 | — | 09:40 | 5.4 | -0.2 | 9+00 | 5.5 | — | |
| | 5.2 | — | 50 | 5.0 | +0.2 | | 5.4 | — | 09:43 | | — | |
| 09:37 | 5.2 | — | | 5.0 | — | | 5.5 | -0.3 | | | — | |
| | 5.1 | +0.1 | | 5.0 | — | 50 | 5.5 | — | | | — | |
| 4+00 | 5.1 | — | | 5.0 | — | | 5.5 | — | | | — | |
| | 5.0 | +0.2 | | 5.0 | — | | 5.5 | — | | | — | |
| | 5.0 | — | 6+00 | 5.0 | — | | 5.5 | — | | | — | |
| | 5.0 | — | | 5.0 | — | | 5.5 | — | | | — | |
| | 5.0 | — | | 5.1 | +0.1 | 8+00 | 5.5 | — | | | — | |
| 50 | 5.0 | — | | 5.1 | — | | 5.5 | — | | | — | |
| | 5.0 | — | | 5.1 | — | | 5.5 | — | | | — | |
| | 5.1 | +0.1 | 50 | 5.1 | — | | 5.9 | -0.7 | | | — | |
| | 5.2 | 0.0 | | 5.2 | 0.0 | | 5.9 | — | | | — | |
| 4+90 | 5.2 | — | 6+70 | 5.2 | — | 8+50 | 5.9 | — | | | — | |

132700
 0100 = STA-132700 ON PATENA Bk. SOUND WEST

DIST SOUND DIST SOUND

0100 3.8 +1.6 1460 10.5 -5.1

4.0 +1.4 10.5 —

09:50

4.0 — 10.0 -4.4

(5.9) 4.0 — (5.9) 9.7 -4.3

4.3 +1.1 2400 9.0 -3.6

50 4.5 +0.9 9.0 —

4.7 +0.7 7.8 -2.4

5.0 +0.4 7.0 -1.6

6.5 -1.1 6.4 -1.0

7.4 -2.0 50 6.4 —

1400 7.9 -2.5 6.0 -0.6

8.0 -2.6 5.7 -0.3

8.2 -2.8 5.9 -0.5

9.2 -3.8 5.7 -0.3

9.3 -3.9 3400 5.7 —

1450 9.6 -4.2 3410 5.7 —

132700 11-3-47 (22)
 DIST SOUND DIST SOUND

3420 5.7 -0.3 5400 5.5 -0.1

5.6 -0.2 5.5 —

(5.9) 5.5 -0.1 (5.9) 5.7 -0.3

50 5.5 — 5.7 —

5.5 — 5.8 -0.4

5.5 — 50 5.8 —

5.4 0.0 6.0 -0.6

5.3 +0.1 6.2 -0.8

4400 5.5 -0.1 6.4 -1.0

5.5 — 6.4 —

5.4 0.0 6400 6.5 -1.1

5.4 — 6.7 -1.3

09:53 5.4 — 7.0 -1.6

50 5.4 — 7.0 —

5.4 — 7.0 —

5.4 — 50 7.0 —

5.5 -0.1 7.1 -1.7

4430 5.5 — 6470 7.4 -2.0

| 132+00 | | | 11-3-17 | | |
|-----------------|-------|------|---------|-------|--|
| DIST | SOUND | | DIST | SOUND | |
| 6780 | 7.4 | -2.0 | | | |
| | 7.4 | — | | | |
| 7400 | 7.3 | -1.9 | | | |
| (5.4) | 7.4 | -2.0 | | | |
| | 7.4 | — | | | |
| | 7.4 | — | | | |
| | 7.5 | -2.1 | | | |
| 50 | 7.5 | — | | | |
| | 7.4 | -2.0 | | | |
| | 7.4 | — | | | |
| | 7.4 | — | | | |
| | 7.4 | — | | | |
| 8400 | 7.4 | — | | | |
| <u>09:56</u> | 7.3 | -1.9 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| 133+00 | | | | | | 11-3-17 | |
|--|-------|------|-------|-------|------|---------|-------|
| 07:00-08:00 ON PATERA Bk.: SOUND WEST. | | | | | | (33) | |
| DIST | SOUND | | DIST | SOUND | | DIST | SOUND |
| 07:00 | 4.4 | +1.1 | 1760 | 9.4 | -3.9 | | |
| | 4.4 | — | | 9.0 | -3.5 | | |
| | 4.4 | — | | 8.5 | -3.0 | | |
| (5.5) | 4.7 | +0.8 | (5.5) | 7.8 | -2.3 | | |
| | 5.1 | +0.4 | 2400 | 7.0 | -1.5 | | |
| 50 | 5.6 | -0.1 | | 6.2 | -0.7 | | |
| | 6.5 | -1.0 | | 6.2 | — | | |
| | 6.8 | -1.3 | | 6.4 | -0.9 | | |
| | 7.1 | -1.6 | | 6.7 | -1.2 | | |
| | 7.5 | -2.0 | 50 | 6.7 | — | | |
| 1400 | 8.0 | -2.5 | | 6.7 | — | | |
| | 8.8 | -3.3 | | 6.7 | — | | |
| | 9.3 | -3.8 | | 6.8 | -1.3 | | |
| | 9.5 | -4.0 | | 6.8 | — | | |
| | 9.7 | -4.2 | 3400 | 6.8 | — | | |
| 1450 | 9.7 | — | 3410 | 6.8 | — | | |

133+00 11-3-47

| DIST | SOUND | | DIST | SOUND |
|-------|-------|------|-------|----------|
| 3+20 | 6.8 X | -1.3 | 5+00 | 7.3 -1.8 |
| 10:05 | 7.0 | -1.5 | | 7.4 -1.9 |
| | 7.0 | — | (5.5) | 7.4 — |
| 50 | 7.0 | — | | 7.4 — |
| (5.5) | 7.0 | — | | 7.4 — |
| | 7.0 | — | 50 | 7.4 — |
| | 7.0 | — | | 7.3 -1.8 |
| | 7.0 | — | | 7.3 — |
| 4+00 | 7.0 | — | | 7.3 — |
| | 7.0 | — | | 7.4 -1.9 |
| | 7.0 | — | 6+00 | 7.4 — |
| | 7.0 | — | | 7.4 — |
| | 7.2 | -1.7 | | 7.4 — |
| 50 | 7.1 | -1.6 | | 7.4 — |
| | 7.1 | — | | 7.4 — |
| | 7.4 | -1.9 | 50 | 7.4 — |
| | 7.4 | — | | 7.4 — |
| 4+30 | 7.3 | -1.8 | 6+70 | 7.4 — |

133+00 11-3-47

| DIST | SOUND | | DIST | SOUND |
|-------|-------|------|------|-------|
| 6+80 | 7.3 | -1.8 | | |
| (5.5) | 7.2 | -1.7 | | |
| | 7.2 | — | | |
| 10:08 | | | | |

PX

(39)

600

11-3-47

134+00

11-7-47

(35)

134+00

DIST SOUND

DIST SOUND

0+00 = STA 134+00 ON PATTERA R/L: SOUND WEST

2+20

6.5

-0.9

5+00

6.7

-1.1

DIST SOUND

DIST SOUND

6.5

6.8

-1.2

0+00

5.0

+0.6

1460

7.1

-1.5

(5.6)

6.5

(5.6)

6.7

-1.1

+10

5.2

+0.4

7.1

—

50

6.5

6.6

-1.0

10:15

5.3

+0.3

(5.6)

6.9

-0.8

6.5

6.5

-0.9

(5.6)

6.1

-0.5

6.0

-0.4

6.5

8 50

6.5

7.0

-1.4

2+00

5.8

-0.2

6.5

6.5

50

7.5

-1.9

6.0

-0.5

6.5

7 50

6.8

-1.2

8.3

-2.7

6.5

-0.1

4+00

6.5

6.8

8.8

-3.2

6.5

6.5

6.9

-1.3

9.0

-3.4

6.5

6.5

6+00

6.7

9.5

-3.9

50

6.5

6.5

10:20

1+00

9.9

-4.3

6.5

6.5

9.8

-4.2

6.5

6.5

9.5

-3.9

6.5

6.5

9.0

-3.4

6.6

-1.0

6.5

8.2

-2.6

3+00

6.6

11:15

6.5

1+50

8.0

-2.4

3+10

6.6

4+20

6.7

-1.1

| 11-3-57 | | | | | | 11-3-57 | | | | | |
|---|-----|------|------------|-----|------|------------|-----|------|---------------------------|------|------|
| 135+00 | | | | | | 135+00 | | | | | |
| 0+00 = STA 135+00 ON PATENA B/L; SOUND WEST | | | | | | DIST SOUND | | | | | |
| DIST SOUND | | | DIST SOUND | | | DIST SOUND | | | DIST SOUND | | |
| | | | | | | 3+20 | 7.5 | -1.9 | 5+00 | 6.8 | -1.1 |
| | | | | | | | 7.9 | -1.8 | (5.7) | 6.6 | -0.9 |
| 0+00 | 7.9 | -1.8 | 1+60 | 6.2 | -0.6 | | 7.2 | -1.6 | | 6.3 | -0.6 |
| | 7.8 | -2.2 | | 6.5 | -0.9 | 50 | 7.0 | -1.4 | | 6.3 | — |
| 10:26 | 7.9 | -2.3 | (5.6) | 6.5 | — | | 7.0 | — | | 6.3 | — |
| (5.6) | 8.1 | -2.8 | | 6.4 | -0.8 | (5.6) | 7.0 | — | 50 | 6.2 | -0.5 |
| | 8.8 | -3.2 | 2+00 | 6.5 | -0.9 | (5.7) | 7.1 | -1.4 | | 6.0 | -0.3 |
| 50 | 9.0 | -3.4 | | 6.5 | — | 10:30 | 7.2 | -1.5 | | 6.0 | — |
| | 9.0 | — | | 6.5 | — | 4+00 | 7.3 | -1.6 | | 6.0 | — |
| | 9.0 | — | | 6.5 | — | | 7.4 | -1.7 | | 6.0 | — |
| | 9.1 | -3.5 | | 6.8 | -1.2 | | 7.3 | -1.6 | 10:32 | 6+00 | 6.0 |
| | 9.0 | -3.4 | 50 | 7.2 | -1.6 | | 7.2 | -1.5 | SOUND EAST (SAME 0+00) | | |
| 1+00 | 8.1 | -2.8 | | 7.2 | — | | 7.1 | -1.4 | 0+10 | 7.3 | -1.6 |
| | 7.9 | -1.8 | | 7.2 | — | 50 | 7.0 | -1.3 | 10:37 | 7.0 | -1.3 |
| | 7.0 | -1.4 | | 7.2 | — | | 7.0 | — | (5.7) | 7.0 | — |
| | 7.0 | — | | 7.2 | — | | 7.0 | — | | 6.7 | -1.0 |
| | 6.1 | -0.8 | 3+00 | 7.5 | -1.9 | | 7.0 | — | 50 | 6.0 | -0.3 |
| 1+50 | 6.1 | -0.5 | 3+10 | 7.5 | — | 4+30 | 7.0 | — | 0+60 | 5.2 | +0.5 |

11-3-17

| 135+00 | | | 135+00 | | |
|-----------------|-------|------|--------|-------|------|
| DIST | SOUND | | DIST | SOUND | |
| 0+70 | 5.1 | +0.6 | 2+50 | 4.5 | +1.2 |
| | 5.0 | +0.7 | | 4.5 | — |
| (5.7) | 5.0 | — | (5.7) | 4.5 | — |
| 1+00 | 4.9 | +0.8 | | 4.6 | +1.1 |
| | 4.8 | +0.9 | | 4.6 | — |
| | 4.7 | +1.0 | 3+00 | 4.7 | +1.0 |
| | 4.5 | +1.2 | | 4.8 | +0.9 |
| | 4.5 | — | | 4.8 | — |
| 50 | 4.5 | — | | 4.8 | — |
| | 4.5 | — | | 4.8 | — |
| | 4.5 | — | 50 | 4.7 | +1.0 |
| | 4.5 | — | | 4.7 | — |
| | 4.5 | — | | 4.8 | +0.9 |
| 2+00 | 4.5 | — | (5.7) | 4.9 | +0.8 |
| | 4.5 | — | (5.8) | 4.9 | +0.9 |
| | 4.5 | — | 7+00 | 5.0 | +0.8 |
| | 4.5 | — | | 5.0 | — |
| 2+10 | 4.5 | — | 4+20 | 5.0 | — |

| 135+00 | | | 135+00 | | |
|--------|-------|------|--------|-------|------|
| DIST | SOUND | | DIST | SOUND | |
| 4+30 | 5.0 | +0.8 | 6+10 | 5.5 | +0.3 |
| (5.8) | 5.1 | +0.7 | (5.8) | 5.5 | — |
| 50 | 5.1 | — | | 5.5 | — |
| | 5.1 | — | | 5.5 | — |
| | 5.2 | +0.6 | 50 | 5.7 | +0.1 |
| | 5.3 | +0.5 | | 5.6 | +0.2 |
| | 5.2 | +0.6 | | 5.5 | +0.3 |
| 5+00 | 5.3 | +0.5 | | 5.5 | — |
| | 5.3 | — | | 5.5 | — |
| | 5.2 | +0.6 | 7+00 | 5.7 | +0.1 |
| 10+20 | 5.5 | +0.3 | | 5.5 | +0.3 |
| | 5.5 | — | | 5.5 | — |
| 50 | 5.5 | — | | 5.5 | — |
| | 5.5 | — | | 5.6 | +0.2 |
| | 5.4 | +0.4 | 50 | 5.5 | +0.3 |
| | 5.3 | +0.5 | | 5.7 | +0.1 |
| | 5.4 | +0.4 | | 5.5 | +0.3 |
| 6+00 | 5.5 | +0.3 | 7+80 | 5.1 | +0.7 |

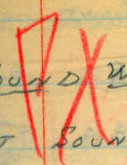
| | | 135+00 | | 11-3-47 | |
|-------|-------|--------|-------|---------|-------|
| DIST | SOUND | DIST | SOUND | DIST | SOUND |
| 7+30 | 5.1 | +0.7 | 9+70 | 5.6 | +0.2 |
| 8+00 | 5.5 | +0.3 | | 5.6 | — |
| (5.8) | 5.6 | +0.2 | (5.8) | 5.6 | — |
| | 5.5 | +0.3 | 10+00 | 5.8 | 0.0 |
| | 5.7 | +0.1 | | 5.8 | — |
| | 5.5 | +0.3 | | 5.5 | +0.3 |
| 50 | 5.5 | — | | 5.8 | 0.0 |
| | 5.4 | +0.4 | | 5.8 | — |
| | 5.9 | — | 50 | 5.9 | -0.1 |
| | 5.4 | — | | 5.9 | — |
| | 5.5 | +0.3 | | 6.0 | -0.2 |
| 9+00 | 5.4 | +0.4 | | 5.9 | -0.1 |
| | 5.4 | — | | 5.9 | — |
| | 5.4 | — | 11+00 | 5.9 | — |
| 10:45 | 5.5 | +0.3 | | 5.9 | — |
| | 5.5 | — | | 5.9 | — |
| 50 | 5.5 | — | | 6.1 | -0.3 |
| 9+60 | 5.4 | +0.4 | 11+40 | 6.1 | — |

| | | 135+00 | | 11-3-47 | |
|-------|-------|--------|-------|---------|-------|
| DIST | SOUND | DIST | SOUND | DIST | SOUND |
| 11+50 | 6.0 | -0.2 | 13+30 | 5.9 | -0.1 |
| | 5.8 | 0.0 | (5.8) | 6.3 | -0.5 |
| (5.8) | 6.0 | -0.2 | 50 | 6.3 | — |
| | 6.0 | — | | 5.8 | 0.0 |
| | 6.0 | — | | 5.5 | +0.3 |
| 12+00 | 6.1 | -0.3 | | 5.8 | 0.0 |
| | 6.2 | -0.4 | | 5.5 | +0.3 |
| 11:48 | 6.0 | -0.2 | 14+00 | 5.4 | +0.4 |
| | 5.8 | 0.0 | | 5.4 | — |
| | 5.8 | — | | 5.4 | — |
| 50 | 5.9 | -0.1 | | 5.5 | +0.3 |
| | 6.0 | -0.2 | | 7.5 | -1.7 |
| | 6.0 | — | 50 | 7.8 | -2.0 |
| | 6.0 | — | (5.8) | 8.1 | -2.3 |
| | 6.0 | — | 10:50 | 8.4 | -2.5 |
| 13+00 | 6.0 | — | (5.9) | 9.0 | -3.1 |
| | 5.9 | -0.1 | | 9.8 | -3.9 |
| 13+20 | 5.7 | +0.1 | 15+00 | 10.0 | -4.1 |

| 135+00 | | 136+00 | |
|-----------------|----------|--------------|----------|
| DIST | SOUND | DIST | SOUND |
| 15+10 | -4.2 | 16+90 | 4.3 +1.6 |
| 19.2 | -4.3 | 17+00 | 4.3 |
| (5.9) | -4.1 | (5.9) | 4.1 +1.8 |
| | 9.3 -3.4 | | 4.1 |
| 50 | 8.8 -2.9 | | 4.1 |
| | 8.1 -2.2 | | 4.1 |
| | 7.7 -1.8 | 50 | 4.1 |
| | 6.9 -1.0 | | 4.1 |
| | 6.6 -0.7 | | 4.1 |
| 16+00 | 6.1 -0.2 | | 4.1 |
| | 5.7 +0.2 | | 4.1 |
| | 5.3 +0.6 | 18+00 | 4.1 |
| | 5.0 +0.9 | <u>10:53</u> | |
| | 4.8 +1.1 | | |
| 50 | 4.7 +1.2 | | |
| | 4.5 +1.4 | | |
| | 4.4 +1.5 | | |
| 16+80 | 4.3 +1.6 | | |

| 136+00 | | 137+00 | |
|--------|----------|--------------|----------|
| DIST | SOUND | DIST | SOUND |
| | | | |
| 3+00 | 8.3 -2.3 | 14+00 | 7.9 -1.4 |
| 7+00 | 8.2 -2.2 | | 7.5 -1.5 |
| | 8.2 | (6.0) | 7.6 -1.6 |
| (6.0) | 8.0 -2.0 | | 8.0 -2.0 |
| | 8.0 | 2+00 | 8.0 |
| 50 | 7.8 -1.8 | | 8.2 -2.2 |
| | 7.3 -1.3 | | 8.1 -2.1 |
| | 7.3 | | 8.2 -2.2 |
| | 7.2 -1.2 | | 8.4 -2.4 |
| | 7.0 -1.0 | 50 | 8.6 -2.6 |
| 17+00 | 7.0 | | 8.5 -2.5 |
| | 7.0 | | 8.5 |
| | 7.0 | | 8.5 |
| | 7.1 -1.1 | <u>14:07</u> | 8.5 -2.3 |
| | 7.2 -1.2 | 3+00 | 8.0 -2.0 |
| 17+50 | 7.3 -1.3 | 3+10 | 8.0 |

136+00 ON PATERNAL BL. SOUND WEST.



| 136+00 | | | | 136+00 | | | |
|---------------------|-------|------|-------|--------|-------|-------|----------|
| DIST | SOUND | DIST | SOUND | DIST | SOUND | DIST | SOUND |
| 3+20 | 8.2 | -2.2 | 0+90 | 6.8 | -0.8 | 2+70 | 5.0 +1.0 |
| (6.0) | 8.0 | -2.0 | 1+00 | 6.8 | — | (6.0) | 5.0 |
| | 7.8 | -1.8 | (6.0) | 6.7 | -0.7 | | 5.0 |
| 50 | 8.0 | -2.0 | | 6.2 | -0.2 | 2+00 | 5.0 |
| | 8.1 | -2.1 | | 5.8 | +0.2 | | 5.0 |
| | 8.1 | — | | 6.0 | 0.0 | | 5.0 |
| | 8.0 | -2.0 | 50 | 6.0 | — | | 5.0 |
| <u>11:08</u> | 8.0 | — | | 5.7 | +0.9 | | 5.1 +0.9 |
| 4+00 | 8.0 | — | | 5.4 | +0.4 | 50 | 5.0 |
| <u>1 SOUND EAST</u> | | | | 5.1 | — | | 5.0 |
| (SAME 0+00) | | | | | | | 5.1 |
| 0+10 | 8.2 | -2.2 | | 5.1 | +0.9 | 4.9 | +1.1 |
| | 8.2 | — | 2+00 | 5.0 | +1.0 | 4.9 | — |
| <u>11:10</u> | | | | 5.0 | — | 4.8 | +1.2 |
| (6.0) | 8.0 | -2.0 | | 5.0 | — | 4+00 | 4.8 |
| | 7.8 | -1.8 | | 5.0 | — | | 5.3 +0.7 |
| 50 | 7.8 | — | | 5.0 | — | | 5.2 +0.8 |
| | 7.5 | -1.5 | | 5.0 | — | 4.9 | +1.1 |
| | 7.3 | -1.3 | 50 | 5.0 | — | 5.0 | +1.0 |
| 0+80 | 2.0 | -1.0 | 2+60 | 5.0 | — | 4+20 | 5.1 +0.9 |

| 136+00 | | | 11-2-47 | | | 136+00 | | | 11-2-47 | | |
|--------|-------|------|---------|-------|------|--------|-------|------|---------|-------|------|
| DIST | SOUND | | DIST | SOUND | | DIST | SOUND | | DIST | SOUND | |
| 6+30 | 5.1 | +0.9 | 8+10 | 5.9 | +0.1 | 9+30 | 6.0 | 0.0 | 11+70 | 6.0 | +0.1 |
| (6.0) | 5.7 | +0.3 | (6.0) | 5.9 | — | 10+00 | 6.0 | — | P.O. | 6.0 | — |
| 50 | 5.9 | +0.1 | | 5.8 | +0.2 | | 6.0 | — | (6.1) | 6.0 | — |
| | 5.9 | — | | 5.8 | — | (6.0) | 6.0 | — | 12+00 | 6.1 | 0.0 |
| | 5.7 | +0.3 | 50 | 5.8 | — | (6.1) | 6.0 | +0.1 | | 6.2 | -0.1 |
| | 5.9 | +0.1 | | 5.9 | +0.1 | 11+20 | 5.8 | +0.3 | | 6.3 | -0.2 |
| | 5.9 | — | 11+18 | 5.9 | — | 50 | 6.0 | +0.1 | | 6.2 | -0.1 |
| 7+00 | 5.7 | +0.3 | | 5.9 | — | | 6.0 | — | | 6.6 | -0.5 |
| | 5.5 | +0.5 | | 5.9 | — | | 6.0 | — | 50 | 6.6 | — |
| | 5.6 | +0.4 | 9+00 | 5.9 | — | | 6.0 | — | | 6.5 | -0.4 |
| | 5.7 | +0.3 | | 5.9 | — | | 6.0 | — | 11+23 | 6.1 | 0.0 |
| | 5.8 | +0.2 | | 5.9 | — | 1+00 | 6.0 | — | | 6.4 | -0.3 |
| 50 | 5.9 | +0.1 | | 6.0 | 0.0 | | 6.0 | — | | 6.6 | -0.5 |
| | 5.9 | — | | 6.0 | — | | 6.0 | — | 13+00 | 6.6 | — |
| | 5.9 | — | 50 | 6.0 | — | | 6.0 | — | | 6.6 | — |
| | 5.8 | +0.2 | | 6.0 | — | | 6.0 | — | | 6.6 | — |
| | 6.0 | 0.0 | | 6.0 | — | 50 | 6.0 | — | | 6.7 | -0.6 |
| 8+00 | 5.9 | +0.1 | 9+80 | 6.0 | — | 11+60 | 6.0 | — | 13+40 | 6.8 | -0.7 |

| 136+00 | | | 11-3-47 | | |
|--------|-------|------|---------|-------|------|
| DIST | SOUND | | DIST | SOUND | |
| 13+50 | 6.9 | -0.8 | 15+30 | 8.3 | -2.2 |
| PX | 7.0 | -0.9 | | 8.7 | -2.6 |
| (6.1) | 7.0 | — | 50 | 9.0 | -2.9 |
| | 7.0 | — | (6.1) | 9.3 | -3.2 |
| | 7.1 | -1.0 | | 9.3 | — |
| 14+00 | 7.6 | -1.5 | | 9.4 | -3.3 |
| | 7.5 | -1.4 | | 9.4 | — |
| | 7.5 | — | 16+00 | 9.4 | — |
| | 7.8 | -1.7 | | 9.3 | -3.2 |
| | 7.5 | -1.4 | | 9.0 | -2.9 |
| 50 | 6.8 | -0.7 | | 8.2 | -2.1 |
| 11:25 | 6.6 | -0.5 | | 7.0 | -0.9 |
| | 6.8 | -0.7 | 50 | 6.0 | +0.1 |
| | 5.8 | +0.3 | | 5.3 | +0.8 |
| | 7.0 | -0.9 | 11:28 | 5.2 | +0.9 |
| 15+00 | 7.0 | — | | 5.2 | — |
| | 7.7 | -1.3 | | 5.1 | +1.0 |
| 15+20 | 7.7 | -1.6 | 17+00 | 5.0 | +1.1 |

| 136+00 | | | 11-3-47 | |
|--------|-------|------|---------|-------|
| DIST | SOUND | | DIST | SOUND |
| 17+10 | 4.9 | +1.2 | | |
| | 4.8 | +1.3 | | |
| (6.1) | 4.8 | — | | |
| | 4.7 | +1.4 | | |
| 50 | 4.7 | — | | |
| | 4.6 | +1.5 | | |
| | 4.6 | — | | |
| | 4.5 | +1.6 | | |
| | 4.5 | — | | |
| 18+00 | 4.5 | — | | |

(12)

PX

3 17

137+00

0+00 = Sta 137+00 ON PATERA 2/4: SOUND EAST

DIST SOUND DIST SOUND

0+00 7.0 -0.8 1+60 7.0 -0.8

+10 7.0 — 6.8 -0.6

12:36 7.0 — 6.5 -0.3

(6.2) 7.0 — (6.2) 6.4 -0.2

7.1 -0.9 2+00 6.4 —

50 7.4 -1.2 6.1 +0.1

7.4 — 6.0 +0.2

7.4 — 5.8 +0.1

7.5 -1.3 5.9 +0.2

7.6 -1.4 50 5.8 +0.1

1+00 7.5 -1.3 5.6 +0.6

7.5 — 5.5 +0.7

7.4 -1.2 5.4 +0.8

7.4 — 5.2 +1.0

7.3 -1.1 3+00 5.1 +1.1

1+50 7.1 -0.9 3+10 5.1 —

11-3-17

137+00

11-3-17

DIST SOUND DIST SOUND

3+20 5.1 +1.1 5+00 5.0 +1.2

5.0 +1.2

(6.2) 4.9 +1.3 (6.2) 5.1 +1.1

50 4.9 — 5.0 +1.2

4.9 — 5.0 —

4.9 — 50 5.0 —

4.9 — 5.1 +1.1

4.9 — 5.1 —

4+00 4.9 — 5.1 —

4.9 — 5.1 —

5.0 +1.2 6+00 5.1 —

5.0 — 5.2 +1.0

5.0 — 5.2 —

50 5.0 — 5.3 +0.9

12:40 5.0 — 5.3 —

5.0 — 50 5.4 +0.8

5.0 — 5.4 —

1+30 5.0 — 6+70 5.4 —

(93)

| 137+00 | | | 11-3-47 | | | 137+00 | | | 11-3-47 | | |
|--------|-------|------|---------|-------|------|--------|-------|------|---------|-------|------|
| DIST | SOUND | | DIST | SOUND | | DIST | SOUND | | DIST | SOUND | |
| 6+80 | 5.1 | +0.8 | 8+60 | 6.1 | 0.0 | 10+40 | 6.6 | -0.5 | 12+20 | 6.5 | -0.4 |
| (6.2) | 5.5 | +0.7 | (6.1) | 6.1 | — | 50 | 6.6 | — | FX | 6.3 | -0.2 |
| 7+00 | 5.8 | +0.4 | | 6.2 | -0.1 | (6.1) | 6.6 | — | (6.1) | 6.3 | — |
| | 5.8 | — | | 6.2 | — | | 6.6 | — | 50 | 6.3 | — |
| | 5.8 | — | 9+00 | 6.2 | — | | 6.6 | — | 5.1 | 6.4 | -0.3 |
| | 5.9 | +0.3 | | 6.2 | — | | 6.5 | -0.4 | 2.1 | 6.4 | — |
| 12:43 | 5.9 | — | | 6.2 | — | 11+00 | 6.5 | — | | 6.4 | — |
| 50 | 5.9 | — | | 6.3 | -0.2 | | 6.4 | -0.3 | | 6.5 | -0.4 |
| (6.2) | 5.9 | — | 12:45 | 6.3 | — | | 6.4 | — | 13+00 | 6.5 | — |
| (6.1) | 5.9 | +0.2 | 50 | 6.3 | — | | 6.4 | — | 12:48 | 6.4 | -0.3 |
| | 6.0 | +0.1 | | 6.3 | — | | 6.4 | — | 50 | 6.4 | — |
| | 6.0 | — | | 6.3 | — | 50 | 6.4 | — | 30 | 6.3 | -0.2 |
| 8+00 | 6.0 | — | | 6.3 | — | | 6.5 | -0.4 | | 6.4 | -0.3 |
| FD+ | 6.0 | — | | 6.4 | -0.3 | | 6.6 | -0.5 | 50 | 6.5 | -0.4 |
| | 6.0 | — | 10+00 | 6.5 | -0.4 | | 6.6 | — | 10 | 6.6 | -0.5 |
| | 6.0 | — | | 6.5 | — | | 6.6 | — | 20 | 6.9 | -0.8 |
| | 6.1 | 0.0 | | 6.5 | — | 12+00 | 6.6 | — | 5.1 | 7.0 | -0.9 |
| 8+50 | 6.1 | — | 10+30 | 6.6 | -0.5 | 12+10 | 6.5 | -0.4 | 13+30 | 7.0 | — |

| 137+00 | | | 137+00 | | | 137+00 | | | 11-3-47 | | |
|------------------|-------|------|----------------------------------|-------|------|--------|-------|-------|--------------|-------|------|
| DIST | SOUND | | DIST | SOUND | | DIST | SOUND | | DIST | SOUND | |
| 14+00 | 7.3 | -1.2 | 15+80 | 7.8 | -1.7 | 14+50 | 7.1 | -1.0 | 2+30 | 8.8 | -2.7 |
| 14+00 | 7.5 | -1.4 | (6.1) | 8.0 | -1.9 | 2.3 | -1.2 | (6.1) | 8.6 | -2.5 | |
| (6.1) | 7.5 | — | 16+00 | 8.4 | -2.3 | (6.1) | 7.3 | — | 50 | 8.4 | -2.3 |
| | 7.5 | — | | 8.8 | -2.7 | | 7.4 | -1.3 | | 8.0 | -1.9 |
| 50 | 7.3 | -1.2 | | 9.0 | -2.9 | | 7.6 | -1.5 | | 7.8 | -1.7 |
| 50 | 7.6 | -1.5 | 50 | 9.1 | -3.0 | 17+00 | 7.4 | -1.3 | | 7.3 | -1.2 |
| | 7.5 | — | | 9.2 | -3.1 | | 7.8 | -1.7 | | 7.1 | -1.0 |
| 11+00 | 7.5 | -1.4 | 50 | 9.4 | -3.3 | | 7.8 | — | 3+00 | 7.0 | -0.9 |
| (6.1) | 7.2 | -1.1 | | 9.9 | -3.5 | | 7.8 | — | <u>12:00</u> | | |
| 8+00 | 7.0 | -0.9 | | 9.7 | -3.3 | | 8.0 | -1.9 | | | |
| 15+00 | 6.8 | -0.7 | | 9.3 | -3.2 | 50 | 8.0 | — | | | |
| 5+00 | 6.6 | -0.5 | | 8.8 | -2.7 | | 8.7 | -2.6 | | | |
| 5+00 | 6.6 | — | <u>12:52</u> | 17+00 | 8.0 | -1.9 | 9.0 | -2.9 | 50 | | |
| P.O.T | 6.6 | — | <u>SOUND WEST</u> (SAME 0+00) | | | | 9.0 | — | | | |
| <u>12:50</u> | 6.8 | -0.7 | 0+10 | 7.0 | -0.9 | | 9.1 | -3.3 | | | |
| 8.0 50 | 6.9 | -0.8 | (6.1) | 7.0 | — | 24+00 | 9.2 | -3.1 | 8.0 | | |
| 8.0 | 7.3 | -1.2 | <u>12:57</u> | 7.1 | -1.6 | | 9.0 | -2.9 | | | |
| 15+70 | 2.5 | -1.4 | 0+40 | 7.1 | — | 2+00 | 9.0 | — | 4+00 | | |

| | | 138+00 | | 11-3-17 | |
|--------------|-------|--------|-------|---------|-------|
| DIST | SOUND | DIST | SOUND | DIST | SOUND |
| 6+80 | 5.5 | +0.5 | 8+60 | 7.0 | -1.0 |
| (6.0) | 5.5 | — | (6.0) | 7.0 | — |
| 7+00 | 5.5 | — | | 7.0 | — |
| | 5.5 | — | | 7.1 | -1.1 |
| | 5.8 | +0.2 | 9+00 | 7.1 | — |
| | 6.0 | 0.0 | | 7.2 | -1.2 |
| | 6.1 | -0.1 | | 7.1 | -1.1 |
| 50 | 6.5 | -0.5 | | 7.1 | — |
| | 6.6 | -0.6 | | 7.2 | -1.2 |
| | 6.9 | -0.9 | 50 | 7.2 | — |
| | 6.9 | — | | 7.2 | — |
| <u>13+00</u> | 6.8 | -0.8 | | 7.2 | — |
| 8+00 | 7.0 | -1.0 | | 7.9 | -1.6 |
| | 7.0 | — | | 7.1 | -1.1 |
| | 7.0 | — | 10+00 | 6.8 | -0.8 |
| | 7.0 | — | | 6.9 | -0.9 |
| | 7.0 | — | | 6.7 | -0.7 |
| 8+50 | 7.0 | — | 10+30 | 6.7 | — |

| | | 138+00 | | 11-3-17 | | (77) |
|-------|-------|--------|-------|---------|-------|------|
| DIST | SOUND | DIST | SOUND | DIST | SOUND | |
| 10+90 | 6.6 | -0.6 | 12+20 | 5.8 | +0.4 | |
| 50 | 6.9 | -0.4 | | 5.8 | +0.2 | |
| (6.0) | 6.3 | -0.3 | (6.0) | 5.8 | — | |
| | 6.2 | -0.2 | 50 | 5.9 | +0.1 | |
| | 6.0 | 0.0 | | 5.9 | — | |
| | 6.0 | — | | 5.9 | — | |
| 11+00 | 6.0 | — | | 5.9 | — | |
| | 6.0 | — | | 5.9 | — | |
| | 6.0 | — | 13+00 | 5.9 | — | |
| | 5.9 | +0.1 | | 5.9 | — | |
| | 5.8 | +0.2 | | 5.9 | — | |
| 50 | 5.5 | +0.5 | | 6.0 | 0.0 | |
| | 5.5 | — | | 6.0 | — | |
| | 5.6 | +0.4 | 50 | 6.1 | -0.1 | |
| | 5.7 | +0.3 | | 6.1 | — | |
| | 5.7 | — | | 6.2 | -0.2 | |
| 12+00 | 5.7 | — | | 6.2 | — | |
| 12+10 | 5.7 | — | 13+90 | 6.2 | -0.3 | |

| 138+00 | | | 11-3-17 | | |
|--------------|----------------|------|--------------|-------|------|
| DIST | SOUND | | DIST | SOUND | |
| 14+00 | 6.2 | -0.2 | 15+80 | 6.8 | -0.8 |
| | 6.2 | — | | 6.8 | — |
| (6.0) | 6.2 | — | 16+00 | 6.8 | — |
| | 6.4 | -0.4 | (6.0) | 6.8 | — |
| | 7.0 | -1.0 | | 6.8 | — |
| 50 | 7.4 | -1.4 | | 6.9 | -0.9 |
| | 7.0 | -1.0 | | 7.1 | -1.1 |
| | 6.5 | -0.5 | 50 | 7.5 | -1.5 |
| <u>13:15</u> | 6.3 | -0.3 | | 7.5 | — |
| | 6.4 | -0.4 | | 7.8 | -1.8 |
| 15+00 | 6.5 | -0.5 | | 8.0 | -2.0 |
| | 6.6 | -0.6 | <u>13:17</u> | 8.0 | — |
| | 6.8 | -0.8 | 17+00 | 8.5 | -2.5 |
| | 6.8 | — | | | |
| | 6.9 | -0.9 | | | |
| 50 | 7.0 | -1.0 | | | |
| | 7.0 | — | | | |
| 15+70 | 6.8 | -0.8 | | | |

| 139+00 | | | 11-3-17 | | |
|-----------------------------|-------|------|--------------|-------|------|
| ON PATRISA B/L: SOUND EAST. | | | | | |
| DIST | SOUND | | DIST | SOUND | |
| 14+00 | 9.4 | -3.5 | 1460 | 6.2 | -0.3 |
| | 9.4 | — | | 6.2 | — |
| | 9.4 | — | (5.9) | 6.3 | -0.4 |
| | 9.4 | — | (6.9) | 6.5 | -0.6 |
| | 9.1 | -3.2 | 2+00 | 7.0 | -1.1 |
| 50 | 9.1 | — | | 7.0 | — |
| | 9.0 | -3.1 | | 7.0 | — |
| | 8.5 | -2.6 | | 7.0 | — |
| | 7.7 | -1.8 | | 7.2 | -1.3 |
| | 7.0 | -1.1 | 50 | 7.4 | -1.5 |
| 1+00 | 6.8 | -0.9 | | 7.4 | — |
| | 6.6 | -0.7 | | 7.2 | -1.3 |
| | 6.4 | -0.5 | | 7.2 | — |
| | 6.3 | -0.4 | <u>13:30</u> | 7.2 | — |
| | 6.7 | -0.8 | 3+00 | 7.2 | — |
| 14 50 | 6.4 | -0.5 | 3+10 | 7.1 | -1.2 |

| PX | | 139+00 | 11-3-77 | |
|-------|-------|--------|---------|------------------|
| DIST | SOUND | DIST | SOUND | |
| 3+20 | 7.0 | -1.1 | 5+00 | 5.6 +0.3 |
| | 6.8 | -0.9 | | 5.8 +0.1 |
| (5.9) | 6.7 | -0.8 | (5.9) | 5.6 +0.3 |
| 50 | 6.6 | -0.7 | | 5.7 +0.2 |
| | 6.6 | — | | 5.9 0.0 |
| | 6.5 | -0.6 | 50 | 5.9 — |
| | 6.5 | — | | 6.5 -0.6 |
| | 6.1 | -0.2 | 13+23 | 7.5 -1.6 |
| 7+00 | 5.7 | +0.2 | | 8.1 -2.5 |
| | 5.7 | — | | 8.8 -2.5 |
| | 5.8 | +0.1 | 6+00 | 8.9 -2.5 |
| | 6.0 | -0.1 | | 8.9 — |
| | 6.0 | — | | 8.6 -2.7 |
| 50 | 5.9 | 0.0 | | 9.3 -3.4 |
| | 6.0 | -0.1 | | 10.3 -4.4 |
| | 5.7 | +0.2 | 50 | 10.3 — |
| | 5.7 | — | | 10.0 -4.1 |
| 4+90 | 5.7 | — | 6+20 | 10.3 -4.4 |

| PX | | 139+00 | 11-3-77 | |
|-------|-------|--------|---------|----------|
| DIST | SOUND | DIST | SOUND | (49) |
| 6+00 | 10.3 | -4.4 | 8+60 | 5.5 +0.4 |
| (5.9) | 10.3 | — | (5.9) | 5.4 +0.5 |
| 2+00 | 10.1 | -4.2 | | 5.4 — |
| | 9.8 | -3.9 | | 5.2 +0.7 |
| | 10.0 | -4.1 | 9+00 | 5.2 — |
| | 9.6 | -3.7 | | 5.1 +0.8 |
| | 9.5 | -3.6 | | 5.1 — |
| 50 | 9.0 | -3.1 | | 5.0 +0.9 |
| | 8.5 | -2.6 | | 5.0 — |
| | 8.0 | -2.1 | 50 | 5.0 — |
| | 7.9 | -1.5 | | 5.0 — |
| | 7.0 | -1.1 | | 5.0 — |
| 8+00 | 6.6 | -0.7 | | 5.0 — |
| 12+20 | 6.0 | -0.1 | | 5.0 — |
| | 5.8 | +0.1 | 10+00 | 5.0 — |
| | 5.8 | — | | 5.0 — |
| | 5.7 | +0.2 | | 5.1 +0.8 |
| 8+50 | 5.5 | +0.4 | 10+30 | 5.1 — |

| PX 139+00 | | | PX 139+00 | | | PX 139+00 | | | PX 139+00 | | |
|-----------|-------|------|-----------|-------|------|-----------|-------|------|-----------|-------|------|
| DIST | SOUND | | DIST | SOUND | | DIST | SOUND | | DIST | SOUND | |
| 10+90 | 5.1 | +0.8 | 12+20 | 5.5 | +0.4 | 14+00 | 5.9 | -0.1 | 15+80 | 6.5 | -0.7 |
| 50 | 5.1 | — | | 5.5 | — | (5.8) | 5.8 | 0.0 | (5.8) | 6.6 | -0.8 |
| (5.9) | 5.0 | +0.9 | | 5.5 | — | 5.8 | — | — | 16+00 | 6.5 | -0.7 |
| 13:38 | 5.1 | +0.8 | 50 | 5.5 | — | 5.9 | -0.1 | — | — | 6.7 | -0.9 |
| | 5.2 | +0.7 | (5.9) | 5.5 | — | 5.8 | 0.0 | — | — | 6.7 | — |
| | 5.0 | +0.9 | (5.8) | 5.5 | +0.3 | 50 | 5.8 | — | — | 6.7 | — |
| 11+00 | 5.0 | — | | 5.1 | +0.4 | | 6.1 | -0.3 | — | 6.7 | — |
| | 5.0 | — | | 5.4 | — | | 6.1 | — | 50 | 6.7 | — |
| | 5.0 | — | 13+00 | 5.5 | +0.3 | | 6.0 | -0.2 | — | 6.7 | — |
| | 5.2 | +0.7 | | 5.7 | +0.1 | | 6.0 | — | — | 6.7 | — |
| | 5.4 | +0.5 | | 5.7 | — | 50 | 6.0 | — | — | 6.6 | -0.8 |
| 50 | 5.3 | +0.6 | | 5.7 | — | | 6.0 | — | 13:45 | 6.7 | -0.9 |
| | 5.3 | — | | 5.7 | — | 0:45 | 6.0 | — | 17+00 | 6.7 | — |
| | 5.5 | +0.4 | 50 | 5.8 | 0.0 | | 6.5 | -0.7 | | | |
| | 5.5 | — | | 5.8 | — | | 6.2 | -0.4 | | | |
| | 5.7 | +0.5 | | 5.7 | +0.1 | 50 | 6.2 | — | | | |
| 12+00 | 5.7 | — | | 5.7 | — | | 6.2 | — | | | |
| 12+10 | 5.7 | — | 13+90 | 5.7 | — | 15+90 | 6.7 | -0.6 | | | |

| PX ⁵ | | 190+00 | | 11-3-77 | | PX | | 190+00 | | 11-3-77 | | (51) |
|-----------------|----------------|--------|-------|---------|-------|-------|-------|--------|-------|---------|-------|------|
| DIST | SOUND | DIST | SOUND | DIST | SOUND | DIST | SOUND | DIST | SOUND | DIST | SOUND | |
| 0400-570-190+00 | ON PATENA B/L: | SOUND | EAST: | 3+20 | 5.9 | +0.3 | 5+00 | 5.0 | +0.6 | | | |
| | | | | | 5.1 | — | | 5.0 | — | | | |
| 0+00 | 8.3 | -2.6 | 1+60 | 7.3 | -1.6 | (5.7) | 5.3 | +0.4 | (5.6) | 4.9 | +0.7 | |
| +10 | 8.3 | — | | 2.0 | -1.3 | 50 | 5.1 | +0.3 | | 4.7 | +0.9 | |
| 13:53 | 8.5 | -2.8 | (5.7) | 6.6 | -0.9 | | 5.2 | +0.5 | | 4.5 | +1.1 | |
| (5.7) | 8.5 | — | | 6.1 | -0.4 | | 5.2 | — | 50 | 4.5 | — | |
| | 8.5 | — | 2+00 | 6.0 | -0.3 | | 5.3 | +0.4 | | 4.4 | +1.2 | |
| 50 | 8.5 | — | | 5.9 | -0.2 | | 5.2 | +0.5 | | 4.4 | — | |
| | 8.5 | — | | 5.8 | -0.1 | 4+00 | 5.5 | +0.2 | | 4.4 | — | |
| | 8.5 | — | | 5.8 | — | | 5.4 | +0.3 | | 4.4 | — | |
| | 8.5 | — | | 5.7 | 0.0 | | 5.4 | — | 6+00 | 4.5 | +1.1 | |
| | 8.4 | -2.7 | 50 | 5.9 | -0.2 | (5.7) | 5.3 | +0.4 | | 4.4 | +1.2 | |
| 7+00 | 8.2 | -2.5 | | 5.7 | 0.0 | 19:00 | 5.1 | +0.6 | | 4.4 | — | |
| | 8.1 | -2.4 | 13:58 | 5.4 | +0.3 | 50 | 5.1 | +0.5 | 14:03 | 4.3 | +1.3 | |
| | 8.0 | -2.3 | | 5.4 | — | (5.6) | 5.1 | — | | 4.3 | — | |
| 13:55 | 8.0 | — | | 5.4 | — | | 5.1 | — | 50 | 4.3 | — | |
| | 7.8 | -2.1 | 3+00 | 5.4 | — | | 5.1 | — | | 4.3 | — | |
| 1+50 | 7.5 | -1.8 | 3+10 | 5.4 | — | 4+30 | 5.1 | — | 6+70 | 4.3 | — | |

| PX | | 140+00 | | 11-3-47 | | PX | | 140+00 | | 11-3-47 | | (52) |
|--------------|----------|--------------|----------|---------|--------------|--------------|----------------|--------|-------|---------|-------|------|
| DIST | SOUND | DIST | SOUND | DIST | SOUND | DIST | SOUND | DIST | SOUND | DIST | SOUND | |
| 6+80 | 4.3 +1.3 | 8+60 | 4.6 +1.0 | 10+90 | 4.8 +0.8 | 12+20 | 5.1 +0.4 | | | | | |
| (5.6) | 4.6 +1.0 | | 4.5 +1.1 | 50 | 4.8 | | 5.1 | | | | | |
| 7+00 | 4.4 +1.2 | (5.6) | 4.5 | (5.6) | 4.8 | (5.5) | 5.0 +0.5 | | | | | |
| | 4.5 +1.1 | | 4.5 | | 4.9 +0.7 | 50 | 5.0 | | | | | |
| | 4.5 | 9+00 | 4.6 +1.0 | | 4.9 | | 5.0 | | | | | |
| | 4.5 | | 4.7 +0.9 | | 4.9 | | 5.3 +0.2 | | | | | |
| | 4.5 | | 4.7 | | 4.9 | | 5.3 | | | | | |
| 50 | 4.5 | | 4.7 | | 4.9 | | 5.3 | | | | | |
| <u>14:05</u> | 4.2 +1.4 | | 4.7 | | (5.6) | 4.9 | 13+00 5.2 +0.3 | | | | | |
| | 4.2 | 50 | 4.7 | | <u>14:10</u> | 4.9 | 5.0 +0.5 | | | | | |
| | 4.4 +1.2 | <u>14:08</u> | 4.7 | | (5.5) | 4.9 +0.6 | 5.0 | | | | | |
| | 4.4 | | 4.7 | | 50 | 4.9 | 5.0 | | | | | |
| 8+00 | 4.4 | | 4.6 +1.0 | | 4.9 | | 5.0 | | | | | |
| | 4.4 | | 4.6 | | 5.0 +0.5 | 50 | 5.0 | | | | | |
| | 4.5 +1.1 | 10+00 | 4.7 +0.9 | | 5.0 +0.5 | | 5.0 | | | | | |
| | 4.5 | | 4.7 | | 4.9 +0.6 | | 5.1 +0.4 | | | | | |
| | 4.5 | | 4.8 +0.8 | 12+00 | 4.9 | <u>14:15</u> | 5.2 +0.3 | | | | | |
| 8+50 | 4.5 | 10+30 | 4.8 | | 12+10 | 4.9 | 13+90 5.4 +0.1 | | | | | |

PX 140+00 11-3-17
DIST SOUND DIST SOUND

14+00 5.1 +0.4

5.0 +0.5

(5.5) 5.0 —

5.0 —

5.2 +0.3

50 5.3 +0.2

5.3 —

5.3 —

5.7 +0.1

5.5 0.0

15+00 5.5 —

14:12

FINIS

(53)

FINAL

BARRAGAN 1-23-78
SHERRY VISUUMIT Post
STANLEY CALM
COOL //

SOUNDINGS OF APPROACH CHANNEL SECT. C'

PX

PROJ. -3-1

STA 32+07.08

0+00 = STA-32+07.08 SECT. "D" B/L: SECT. AT 90° TO E/W

SOUND S/E

DIST SOUND

DIST SOUND

0+00 3.8 +1.1 1+40 13.1 -8.2

+10 3.8 - 50 13.1 -

10:25 3.8 - 13.1 -

(4.9) 3.8 - (4.9) 13.2 -8.3

3.8 - 10:28 13.2 -

50 3.8 - 13.1 -8.2

3.9 +1.0 2+00 13.4 -8.5

3.9 - 13.4 -

4.0 +0.9 13.4 -

4.5 +0.4 13.4 -

1+00 11.1 -6.2 (4.9) 13.4 -

12.5 -7.6 (4.8) 50 13.0 -8.2

12.8 -7.9 13.0 -

1+30 12.9 -8.0 2+20 13.0 -

STA-32+07.08

1-23-78

DIST SOUND DIST SOUND

2+80 13.0 -8.2 PX

10:30 12.8 -8.0

3+00 12.5 -7.7

(4.8) 12.8 -8.0

11.4 -6.6

4.9 -0.1

4.1 +0.7

50 4.0 +0.8

4.1 +0.7

4.1 -

4.6 +0.2

4.7 +0.1

1+00 4.0 +0.8

10:31

(57)

Induced

SECTION AT PT. "C" = (STA-31+29.32 AT 1-23-18)

SECT. AT PT. "C" 1-23-18

SECT. TAKEN AT \angle OF $63^{\circ} 31' 35''$ To SECT. "C" E/W.

DIST SOUND DIST SOUND

+00 = PT. "C" SECT "C" 3/4. SOUND S/E

3+20 12.3 -7.8

~~DIST~~ SOUND DIST SOUND

(4.5) 12.3 -

PX

07:00 3.0 +1.6 1760 12.8 -8.2

12.1 -7.6

2 | 127° 03' 10"

+10 3.0 - (4.6) 12.7 -8.1

50 12.8 -8.3

63° 31' 35"

10:49 3.0 - 12.7 -

11.8 -

2 | 232° 56' 50"

(4.6) 2.9 +1.7 12.7 -

1.9 +0.1

116° 28' 25"

2.9 - 2700 12.7 -

4.0 +0.5

50 3.0 +1.8 (4.6) 12.8 -8.2

3.9 +0.6

29° 22' 59"

3.0 - 10:47 12.8 -

9+00 3.8 +0.7

23° 33' 51"

3.0 - (4.5) 12.8 -8.3

3.7 +0.8

53° 56' 50"

3.0 - 12.9 -8.4

1.5 0.0

3.0 - 50 12.9 -

3.5 +1.0

1700 1.3 +0.3 12.8 -8.3

10:50 3.8 +0.7

11.1 -6.5 12.8 -

50 3.8 -

13.4 -8.8 12.8 -

13.5 -8.9 12.8 -

13.1 -8.5 3+00 12.7 -8.2

1750 13.0 -8.4 3+10 12.4 -7.3

FINAL

BARRAGAN
SHERRIN
STANLEY1-28-98
CLEAR
LIGHT WIND
COOL

1-28-98

SOUNDINGS OF APPROACH CHANNEL SECT B

PROJ-3-1

STA-16+00

+00=STA-16+00 SECT. "B" B/L; SECT. AT 90° TO B/L.

SOUND EAST

| DIST | SOUND | | DIST | SOUND |
|--------------|-------|------|-------|-----------|
| 0+00 | 3.8 | +1.7 | 1+90 | 19.1 -8.6 |
| +10 | 3.8 | — | 50 | 19.8 -9.3 |
| <u>13:08</u> | 3.8 | — | 13:10 | 19.8 — |
| (5.5) | 3.8 | — | (5.5) | 19.1 -8.6 |
| | 3.8 | — | | 19.1 — |
| 50 | 3.8 | — | | 19.0 -8.5 |
| | 3.9 | +1.6 | 2+00 | 19.0 — |
| | 4.8 | +0.7 | | 13.7 -8.2 |
| | 5.4 | +0.1 | | 19.0 -8.5 |
| | 9.0 | -3.5 | | 19.0 — |
| 1+00 | 19.1 | -8.6 | | 19.1 -8.6 |
| | 19.3 | -8.8 | 50 | 19.5 -9.0 |
| | 19.0 | -8.5 | | 19.9 -9.4 |
| 1+30 | 19.8 | -9.3 | 2+70 | 15.0 -9.5 |

STA-16+00

| DIST | SOUND | | DIST | SOUND |
|-------|-------|------|------|-------|
| 2+80 | 19.7 | -9.2 | | |
| | 19.0 | -8.5 | | |
| 2+00 | 13.7 | -7.9 | | |
| (5.5) | 13.0 | -7.5 | | |
| | 9.5 | -4.0 | | |
| | 9.0 | -1.5 | | |

PX
Indepnd

(50)

1-28-78

STA-17+00

0+00=STA-17+00 SECT B 8/4. SECT AT 90° TO 8/4.
SOUND EAST

| | DIST | SOUND | DIST | SOUND |
|-------|------|-------|-------|------------|
| 0+00 | 3.5 | +1.8 | 1+60 | 15.0 -9.7 |
| +10 | 3.5 | — | 15.0 | — |
| 13:23 | 3.5 | — | (5.3) | 15.3 -10.0 |
| (5.3) | 3.5 | — | 15.5 | -10.2 |
| | 3.5 | — | 2+00 | 14.5 -9.2 |
| 50 | 3.5 | — | 15.8 | -10.5 |
| | 3.5 | — | 15.7 | -10.1 |
| | 3.7 | +1.6 | 15.8 | -10.5 |
| | 3.7 | — | 14.0 | -8.7 |
| 13:25 | 10.0 | -4.7 | 50 | 14.0 — |
| 1+00 | 14.2 | -8.9 | 14.1 | -8.8 |
| | 14.9 | -9.6 | 14.1 | — |
| | 15.2 | -9.9 | 14.1 | — |
| | 15.2 | — | 13.3 | -8.0 |
| | 15.2 | — | 3+00 | 13.1 -7.8 |
| 1+50 | 15.1 | -9.8 | 3+10 | 12.7 -7.4 |

STA-17+00 1-28-78

(57)

DIST SOUND DIST SOUND

| | | | | |
|-------|------|------|--|--|
| 3+20 | 11.5 | -6.2 | | |
| | 7.0 | -1.7 | | |
| (5.3) | 3.2 | +2.1 | | |
| 50 | 3.2 | — | | |
| | 3.5 | +1.8 | | |
| | 3.7 | +1.9 | | |
| | 3.2 | +2.1 | | |
| | 3.2 | — | | |
| 4+00 | 3.9 | +1.9 | | |

FX

13:20

STA-18+00 1-28-98

0+00=STA-18+00 SECT. "B" B/L.

SOUND EAST

| DIST | SOUND | | DIST | SOUND | |
|--------------|-----------------|------|-------|-------|------|
| 0+00 | 3.1 | +1.7 | 1+70 | 14.2 | -9.1 |
| +10 | 3.4 | — | | 14.9 | -9.8 |
| (5.1) | 3.1 | — | (5.1) | 14.9 | — |
| | 3.4 | — | 2+00 | 14.8 | -9.7 |
| | 3.1 | — | | 14.5 | -9.4 |
| 50 | 3.4 | — | | 14.1 | -9.0 |
| | 3.4 | — | | 14.2 | -9.1 |
| | 3.1 | — | | 14.2 | — |
| | 3.1 | — | 50 | 13.8 | -8.7 |
| <u>13.26</u> | 8.5 | -3.4 | | 13.3 | -8.2 |
| 1+00 | 13.4 | -8.3 | | 13.3 | — |
| | 14.5 | -9.4 | | 13.4 | -8.3 |
| | 14.9 | — | | | |
| | 15.9 | -9.8 | | 12.8 | -7.7 |
| | 14.9 | — | 2+00 | 11.5 | -6.4 |
| | 15.0 | -9.9 | | 10.0 | -4.9 |
| 50 | 14.7 | -9.6 | | 9.0 | -3.9 |
| 1+60 | 14.0 | -8.9 | 3+30 | 5.8 | -0.7 |

STA-18+00 1-28-98

(58)

| DIST | SOUND | | DIST | SOUND | |
|-------|-------|------|------|-------|--|
| 3+90 | 7.7 | +0.4 | | | |
| 50 | 7.5 | +0.6 | | | |
| (5.1) | 7.1 | +0.7 | | | |
| | 5.0 | +0.1 | | | |
| | 7.8 | +0.3 | | | |
| | 5.1 | 0.0 | | | |
| 4+00 | 5.5 | -0.4 | | | |
| 1+90 | | | | | |

1-28-98
END SECTION 200' EAST OF STA-19+00

0+00 = PT. ON X-SECTION LINE 200' EAST OF STA-19+00

SOUND SOUTH AT 90° TO X-SECTION LINE

~~DIST~~ SOUND DIST SOUND

0+00 3.9 +1.4

+10 3.9 —

13:53 4.2
5.2 +0.6

4.8 4.1 +0.7

4.3 +0.5

50 4.3 —

10.0 -5.2

13.4 -8.6

13.8 -9.0

13.5 -8.7

1+00 14.0 -9.2

14.3
14.2 -9.5

13:55

ORIGINAL

BARRACAN
SHEPARD
STANLEY'S

1-30-98
CLEAR
CALM
WARM

(59)

SOUNDINGS OF BORROW AREA ADJOINING SECT "C"
(APPROACH CHANNEL - PROJ-3-1)

STA-31+00

0+00 = STA-31+00 ON 700' SECT. "C" B/L OFFSET

DIST SOUND DIST SOUND
SOUND SOUTH/EAST

0+00 4.0 -0.3 1+50 2.0 +1.7

+10 3.8 -0.1 2.1 +1.6

13:43 3.5 +0.2 (3.7) 2.1 —

(3.7) 3.3 +0.4 2.2 +1.5

3.0 +0.7 2.9 +1.3

50 2.8 +0.9 2+00 2.6 +1.1

2.5 +1.2 3.0 +0.7

2.1 +1.6 3.3 +0.4

2.0 +1.7 3.2 +0.5

2.0 — 3.6 +0.1

1+00 2.0 — 50 3.7 0.0

2.0 — 3.8 -0.1

2.0 — 3.7 +0.3

2.0 — 03:47 3.7 +0.4

1+40 2.9 +1.3 2+90 3.0 +0.7

| STA-31700 | | | 1-30-98 | | |
|-----------|-------|------|--------------|-------|------|
| DIST | SOUND | | DIST | SOUND | |
| 3+00 | 3.0 | +0.7 | 4+80 | 2.4 | +1.3 |
| (3.7) | 3.0 | — | (3.7) | 2.4 | — |
| | 3.0 | — | 5+00 | 2.4 | — |
| | 3.0 | — | | 2.5 | +1.2 |
| | 3.0 | — | | 2.4 | +1.3 |
| 50 | 2.9 | +0.8 | | 2.4 | — |
| | 2.8 | +0.9 | <u>09:50</u> | 2.4 | — |
| | 2.8 | — | 50 | 2.3 | +1.4 |
| | 2.7 | +1.0 | | 2.2 | +1.5 |
| | 2.7 | — | | 2.1 | +1.6 |
| 4+00 | 2.6 | +1.1 | | 2.1 | — |
| | 2.5 | +1.2 | | 2.1 | — |
| | 2.5 | — | 6+00 | 2.1 | — |
| | 2.5 | — | | 2.1 | — |
| | 2.4 | +1.3 | | 2.1 | — |
| 50 | 2.4 | — | | 2.1 | — |
| | 2.5 | +1.2 | | 2.0 | +1.7 |
| 4+70 | 2.5 | — | 6+50 | 2.0 | — |

| STA-31700 | | | 1-30-98 | | |
|--------------|-------|------|---------|-------|------|
| DIST | SOUND | | DIST | SOUND | |
| 6+60 | 2.0 | +1.7 | 8+40 | 11.9 | -8.2 |
| (3.7) | 2.0 | — | 50 | 11.6 | -7.9 |
| | 2.0 | — | 8+60 | 11.6 | — |
| | 2.1 | +1.3 | 09:55 | | |
| 7+00 | 2.3 | +1.4 | (3.7) | | |
| | 2.0 | +1.7 | | | |
| | 2.0 | — | | | |
| <u>09:53</u> | 2.0 | — | | | |
| | 2.4 | +1.3 | | | |
| 50 | 2.1 | +1.6 | | | |
| | 2.0 | +1.7 | | | |
| | 2.0 | — | | | |
| | 2.3 | +1.4 | | | |
| | 2.2 | +1.5 | | | |
| 8+00 | 7.3 | -3.6 | | | |
| | 11.4 | -7.7 | | | |
| | 11.4 | — | | | |
| 8+30 | 11.7 | -8.0 | | | |

(60)

PX

STA-30+00 1-30-78

0+00 = STA-30+00 ON 700' SECT. "C" B/L. OFFSET
SOUND SOUTHEAST

| DIST | SOUND | DIST | SOUND |
|-----------------|----------|--------------|----------|
| 6+00 | 8.2 -4.3 | 1+70 | 3.1 +0.8 |
| +10 | 8.0 -4.1 | (3.9) | 3.1 — |
| <u>10:05</u> | 7.7 -3.8 | | 3.2 +0.7 |
| (3.9) | 6.9 -3.0 | 2+00 | 3.4 +0.5 |
| | 6.5 -2.6 | | 3.8 +0.1 |
| 50 | 6.0 -2.1 | <u>10:08</u> | 4.1 -0.2 |
| | 1.9 -1.0 | | 4.0 -0.1 |
| | 7.8 -0.9 | | 3.8 +0.1 |
| | 4.6 -0.7 | 50 | 3.8 — |
| | 7.2 -0.3 | | 4.0 -0.1 |
| 1+00 | 4.0 -0.1 | | 3.6 +0.3 |
| | 3.8 +0.1 | | 3.5 +0.4 |
| | 3.1 +0.8 | | 3.0 +0.9 |
| | 3.0 +0.9 | 3+00 | 2.9 +1.0 |
| | 3.0 — | | 2.8 +1.1 |
| 50 | 3.0 — | | 2.8 — |
| 1+60 | 3.1 +0.8 | 3+30 | 2.7 +1.2 |

STA-30+00 1-30-78 (6)

| DIST | SOUND | DIST | SOUND |
|--------------|----------|--------------|----------|
| 3+90 | 2.7 +1.2 | 5+20 | 2.0 +2.0 |
| 50 | 2.7 — | (4.0) | 2.0 — |
| (3.9) | 2.6 +1.3 | | 2.0 — |
| | 2.5 +1.4 | 50 | 2.0 — |
| | 2.5 — | | 2.2 +1.8 |
| <u>10:10</u> | 2.4 +1.5 | <u>10:13</u> | 2.0 +2.0 |
| 4+00 | 2.3 +1.7 | | 2.0 — |
| (4.0) | 2.2 +1.8 | | 2.0 — |
| | 2.2 — | 6+00 | 2.1 +1.9 |
| | 2.1 +1.9 | | 2.0 +2.0 |
| | 2.0 +2.0 | | 2.0 — |
| 50 | 2.0 — | | 2.0 — |
| | 2.4 +1.6 | | 1.8 +2.2 |
| | 2.0 +2.0 | 50 | 2.0 +2.0 |
| | 2.0 — | | 2.4 +1.6 |
| | 2.0 — | | 2.2 +1.8 |
| 5+00 | 2.0 — | | 2.2 — |
| 5+10 | 2.0 — | 6+90 | 2.0 +2.0 |

| STA-30+00 | | | 1-29-78 | | |
|-----------|-------|------|--------------|-------|------|
| DIST | SOUND | | DIST | SOUND | |
| 7+00 | 2.0 | +2.0 | 8+80 | 9.1 | -5.1 |
| | 2.1 | +1.9 | 90 | 12.2 | -8.2 |
| (4.0) | 2.2 | +1.8 | 9+00 | 12.0 | -8.0 |
| | 2.1 | +1.9 | (4.0) | 12.0 | — |
| | 2.1 | — | 9+20 | 12.1 | -8.1 |
| 50 | 2.1 | — | <u>10:18</u> | | |
| | 2.3 | +1.7 | | | |
| | 2.3 | — | | | |
| | 2.2 | +1.8 | | | |
| | 2.1 | +1.9 | | | |
| 8+00 | 2.5 | +1.5 | | | |
| | 2.5 | — | | | |
| | 2.5 | — | | | |
| | 2.6 | +1.4 | | | |
| | 2.7 | +1.3 | | | |
| 50 | 2.4 | +1.6 | | | |
| | 2.8 | +1.2 | | | |
| 8+70 | 2.0 | -3.0 | | | |

| CHECK SOUNDINGS OF APPROACH | | | | | | 2-25-78 | |
|------------------------------|-------|------|--------------|-------|------|--------------------------|--|
| CHANNEL SECT. "B" | | | | | | CLEAR | |
| | | | | | | 0004 | |
| | | | | | | LIGHT WIND | |
| | | | | | | BARRAGAN | |
| | | | | | | SHERIFFS | |
| | | | | | | STANLEY | |
| 25+20 | | | | | | | |
| 1700=STA-25+20 SECT. "B" B/L | | | | | | SOUND EAST AT 90° To B/L | |
| DIST | SOUND | | DIST | SOUND | | | |
| 0+00 | 3.5 | +2.7 | 2+20 | 15.8 | -9.6 | | |
| | +50 | 3.2 | +3.0 | | 15.2 | -9.0 | |
| <u>03:21</u> | 3.1 | +3.1 | (6.2) | 15.1 | -8.9 | | |
| | +30 | 7.0 | -0.8 | 50 | 15.2 | -9.0 | |
| 1+00 | 11.6 | -5.4 | | 15.6 | -9.4 | | |
| (6.2) | 13.5 | -7.3 | | 15.4 | -9.2 | | |
| | 14.5 | -8.3 | | 15.4 | — | | |
| | 14.0 | -7.8 | | 14.9 | -8.7 | | |
| | 14.0 | — | 3+00 | 14.4 | -8.2 | | |
| 50 | 14.2 | -8.0 | | 9.5 | -3.3 | | |
| | 14.7 | -8.5 | | 4.5 | +1.7 | | |
| | 14.9 | -8.7 | | 4.4 | +1.8 | | |
| | 15.0 | -8.8 | | 4.4 | — | | |
| | 15.9 | -9.7 | 50 | 4.4 | — | | |
| | | | <u>09:27</u> | | | | |
| 2+00 | 15.0 | -8.8 | | | | | |
| 2+10 | 15.8 | -9.6 | | | | | |

Indexed

SOUNDINGS OF BORROW AREA

2-25-98

NORTH OF AND ADJOINING CHANNEL SECT. "C"

~~2X~~ STA - 37+00

0+00 = STA - 37+00 700' NORTH OF SECT. "C" Bk. SOUND S/E.

| DIST | SOUND | DIST | SOUND |
|-------|------------|-----------------------|------------|
| 2+50 | 6.0 +0.5 | 4+00 | 24.0 -17.5 |
| +60 | 6.2 +0.3 | ^{09:50} 23.8 | -17.3 |
| 09:48 | 6.0 +0.5 | (6.5) 23.2 | -16.7 |
| (6.5) | 6.0 — | 23.0 | -16.5 |
| | 6.0 — | 23.0 | — |
| 3+00 | 5.9 +0.6 | 50 22.8 | -16.3 |
| | 6.0 +0.5 | 22.8 | — |
| | 12.8 -6.3 | 22.5 | -16.0 |
| | 23.0 -16.5 | 22.0 | -15.5 |
| | 25.5 -19.0 | 22.0 | — |
| 50 | 26.3 -19.8 | 5+00 22.0 | — |
| | 25.5 -19.0 | 22.1 | -15.6 |
| | 24.4 -17.9 | 22.0 | -15.5 |
| | 24.0 -17.5 | 22.0 | — |
| 3+90 | 24.0 — | 5+40 22.0 | — |

DIST SOUND

5+50 22.0 -15.5

22.0

21.7 -15.2

(6.5) 21.5 -15.0

21.8 —

6+00 21.5 —

21.6 -15.1

21.8 -15.3

22.0 -15.5

21.2 -14.7

50 20.8 -14.3

21.1 -14.6

21.2 -14.7

21.2 —

21.9 -14.9

7+00 21.6 -15.1

^{09:55} 21.8 -15.3

7+20 21.9 -15.4

DIST SOUND

7+30 ~~21.9~~ -15.4

21.9

50 22.0 -15.5

(6.5) 22.0 —

22.1 -15.6

22.4 -15.9

23.4 -16.9

8+00 24.2 -17.7

24.5 -18.0

24.5 —

23.0 -16.5

14.7 -8.2

50 15.2 -8.7

15.2 —

15.4 -8.9

80 15.4 —

90 15.4 —

9+00 15.4 —

+10 15.5 -9.0

^{10:00} 9+20 15.6 -9.1

(63)

2-25-76

STA-38+00

0+00 STA-38+00 700' NORTH OF SECT. "C" 8/4; SOUND S/E.

| DIST | SOUND | DIST | SOUND |
|-------|------------|-------|------------|
| 2+50 | 5.9 +0.7 | 4+10 | 22.7 -16.1 |
| 10:08 | 5.9 — | 10:10 | 22.5 -15.9 |
| (6.6) | 5.9 — | (6.6) | 22.9 -15.8 |
| | 5.9 — | | 22.3 -15.7 |
| | 5.9 — | 50 | 22.3 — |
| 3+00 | 5.9 — | | 22.3 — |
| | 5.9 — | | 22.0 -15.4 |
| | 12.0 -5.4 | | 21.6 -15.0 |
| | 18.7 -12.1 | | 21.5 -14.9 |
| | 25.1 -18.5 | 5+00 | 21.9 -14.8 |
| 50 | 25.0 -18.4 | | 21.4 — |
| | 29.8 -18.2 | | 21.4 — |
| | 29.5 -17.9 | | 21.3 -14.7 |
| | 23.8 -17.2 | | 21.5 -14.9 |
| 7+30 | 23.4 -16.8 | 50 | 21.8 -15.2 |
| 4+00 | 23.0 -16.4 | 5+00 | 22.0 -15.4 |

STA-38+00

2-25-77

(67)

| DIST | SOUND | DIST | SOUND |
|-------|------------|-------|------------|
| 5+70 | 22.0 -15.4 | 7+50 | 21.3 -14.7 |
| | 22.0 — | | 21.5 -14.9 |
| (6.6) | 22.0 — | (6.6) | 22.0 -15.4 |
| 6+00 | 21.8 -15.2 | | 22.1 -15.5 |
| | 21.5 -14.9 | | 22.2 -15.6 |
| | 21.2 -14.6 | 8+00 | 22.4 -15.8 |
| | 21.0 -14.4 | | 22.8 -16.2 |
| | 20.5 -13.9 | | 23.0 -16.4 |
| 50 | 20.6 -14.0 | | 22.1 -15.5 |
| | 20.8 -14.2 | | 15.2 -8.6 |
| | 20.8 — | 50 | 19.5 -7.9 |
| | 20.8 — | 10:17 | 19.7 -8.1 |
| | 21.0 -14.4 | | 19.7 — |
| 7+00 | 21.2 -14.6 | | 15.0 -8.4 |
| | 21.0 -14.4 | 9+00 | 15.3 -8.7 |
| | 21.0 — | 10 | 15.3 — |
| | 21.0 — | 20 | 15.3 — |
| | 21.0 — | 30 | 15.3 — |
| | 21.0 — | 40 | 15.3 — |
| 7+40 | 21.2 -14.6 | 9+50 | 15.3 — |
| | | 10:19 | |

2-25-18

END SECT. 200' N-36+00

2-25-18

(65)

END SECTION 200' NORTH OF STA-36+00 SECT "C" 7/4.

DIST SOUND

DIST SOUND

STATION 200' N/STA-36+00 "C" 7/4: SOUND NORTH EAST

3+20

17.7

-11.3

5+00

10.0

-3.6

17.8

-11.4

9.3

-2.9

~~16.8~~

DIST SOUND

DIST SOUND

0+00

11.0

-4.6

1+60

22.5

-16.1

(6.4)

18.0

-11.6

7.8

-1.4

+10

17.0

-10.6

22.9

-16.0

50

18.0

—

6.8

-0.4

10:45

17.8

-11.4

(6.4)

22.1

-15.7

10:50

18.0

—

7.0

-0.6

(6.4)

22.0

-15.6

10:48

22.0

-15.6

17.5

-11.1

50

6.5

-0.1

21.1

-14.7

2+00

22.0

—

12.9

-6.0

5.5

+0.9

50

21.7

-15.3

21.5

-15.1

7.3

-0.9

6.0

+0.4

21.8

-16.4

20.8

-14.4

4+00

7.7

-1.3

6.0

—

21.7

-15.3

21.0

-14.6

8.0

-1.6

(6.4)

9.1

-2.7

21.8

-15.4

21.6

-15.2

8.8

-2.4

8+00

13.2

-6.8

21.8

—

50

21.5

-15.1

9.5

-3.1

10:55

19.6

-13.2

1+00

22.0

-15.6

21.2

-14.8

10.5

-4.1

(SOUND WEST)
SAME 0+00

4+00

10.1

-3.8

22.1

-15.7

20.8

-14.4

50

11.0

-4.6

(6.3)

5.2

+1.1

22.1

—

20.5

-14.1

11.4

-5.0

5.0

+1.3

21.7

-15.3

19.8

-13.4

11.4

—

5.0

—

22.0

-15.6

3+00

19.9

-13.0

11.0

-4.6

50

5.0

—

1+50

22.5

-16.1

3+10

19.0

-12.6

4+00

10.7

-4.3

1+00

70

5.0

—

80

5.0

—

90

5.0

—

1+00

5.0

—

2-25-18

END SECTION 30' SOUTH STA-34+00 SECT. C B/L.

~~6+00 = Pt. 30 SOUTH STA-34+60: NORTH EAST.~~
 SOUND

| DIST SOUND | | | DIST SOUND | | |
|--------------|------|-------|--------------|------|-------|
| 0+00 | 5.0 | +1.0 | 1+60 | 18.0 | -12.0 |
| +10 | 5.1 | +0.9 | | 18.0 | — |
| <u>11:20</u> | 5.2 | +0.8 | (6.0) | 18.8 | -12.8 |
| (6.0) | 5.2 | — | | 20.3 | -14.3 |
| | 5.3 | +0.7 | 2+00 | 21.0 | -15.0 |
| 50 | 5.3 | — | | 21.0 | — |
| | 5.3 | — | | 21.1 | -15.1 |
| | 5.4 | +0.6 | | 21.1 | — |
| | 5.7 | +0.3 | | 21.0 | -15.0 |
| | 13.0 | -7.0 | 50 | 20.8 | -14.8 |
| 1+00 | 16.8 | -10.8 | | 20.6 | -14.6 |
| | 19.1 | -13.1 | | 20.8 | -14.8 |
| | 19.0 | -13.0 | | 20.8 | — |
| | 18.4 | -12.4 | | 21.0 | -15.0 |
| | 18.3 | -12.3 | 3+00 | 21.2 | -15.2 |
| 1+50 | 18.1 | -12.1 | <u>11:27</u> | | |

2-25-18

(66)

STA-36+00

~~6+00 = STA-36+00 700' NORTH SECT. C B/L: SOUND S/E.~~
 PX

| DIST SOUND | | | DIST SOUND | | |
|--------------|------|------|------------|------|-------|
| 3+00 | 9.9 | +1.3 | 4+60 | 6.8 | -1.1 |
| +10 | 9.5 | +1.2 | | 9.5 | +1.2 |
| <u>12:35</u> | 9.2 | +1.5 | (5.7) | 5.2 | +0.5 |
| (5.7) | 9.0 | +1.7 | | 5.0 | +0.7 |
| | 9.0 | — | 5+00 | 5.1 | +0.6 |
| 50 | 9.2 | +1.5 | | 9.7 | +1.0 |
| | 3.8 | +1.9 | | 6.3 | -0.6 |
| | 3.6 | +2.1 | | 8.5 | -2.8 |
| | 3.5 | +2.2 | | 8.5 | — |
| | 3.5 | — | 50 | 8.0 | -2.3 |
| 4+00 | 5.5 | +0.2 | | 12.0 | -6.3 |
| | 7.6 | -1.9 | | 19.0 | -4.3 |
| | 13.3 | -7.6 | (5.7) | 13.2 | -7.5 |
| | 13.0 | -7.3 | (5.6) | 17.0 | -11.4 |
| | 10.4 | -4.7 | 6+00 | 17.0 | — |
| 4+50 | 9.5 | -3.8 | 6+00 | 16.8 | -11.2 |

| DIST | SOUND | DIST | SOUND |
|-------|--------------|-------|------------|
| 6+20 | 10.5 12.5 | -10.9 | 8+00 17.5 |
| (5.6) | 16.9 13.1 | -11.3 | (5.6) 17.8 |
| | 17.8 | | |
| | 14.0 | -12.2 | 17.0 |
| | 19.0 | | |
| 50 | 14.8 | -13.4 | 12.9 |
| | 19.1 | -13.5 | 12.9 |
| | 19.3 | -13.7 | 50 13.0 |
| | 20.2 | -14.6 | 12.7 |
| | 19.6 | -14.0 | 13.0 |
| 7+00 | 19.5 | -13.9 | 8+80 13.0 |
| | 19.7 | -14.1 | |
| | 19.6 | -14.0 | |
| | 19.6 | — | |
| 12:48 | 19.7 | -14.1 | |
| 50 | 19.5 | -13.9 | |
| | 19.3 | -13.7 | |
| | 19.3 | — | |
| | 18.8 | -13.2 | |
| 7+90 | 17.7 | -12.1 | |

SOUNDINGS OF BORROW AREA SOUTH OF AND ADJOINING CHANNEL SECTION "D" STA-46+00

4+00 = STA-46+00 900' SOUTH SECT. "D" B/L: SOUND NORTH

| DIST | SOUND | DIST | SOUND |
|-------|-----------|-------|------------|
| 4+00 | 5.5 | -1.4 | 1+40 23.0 |
| 4+10 | 10.0 | -5.9 | 50 22.8 |
| 13:12 | 19.1 | -15.0 | 22.5 |
| (4.1) | 21.0 | -16.9 | (4.1) 22.6 |
| | 22.0 | -17.9 | 22.5 |
| | 50 22.1 | -18.0 | 22.0 |
| | 22.0 | -17.9 | 2+00 21.3 |
| | 22.0 | — | 21.0 |
| | 22.6 | -18.5 | 20.8 |
| | 22.9 | -18.8 | 20.1 |
| | 1+00 23.0 | -18.9 | 20.4 |
| 13:15 | 23.5 | -19.4 | 50 20.8 |
| | 22.6 | -18.5 | 21.3 |
| 1+30 | 23.0 | -18.9 | 2+20 21.7 |

PK
Indicated

2-25-18

| DIST | SOUND | STA-96+00 | DIST | SOUND |
|-----------------|-----------------|-----------|-------|------------|
| 2+80 | 21.7 | -17.6 | 4+00 | 20.5 -16.5 |
| <u>13:18</u> | 21.0 | -16.9 | | 21.0 -17.0 |
| 3+00 | 20.3 | -16.2 | (4.0) | 21.4 -17.4 |
| (4.1) | 20.5 | -16.4 | | 21.7 -17.7 |
| | 20.5 | — | 5+00 | 22.0 -18.0 |
| | 20.0 | -15.9 | | 22.2 -18.2 |
| | 19.7 | -15.6 | | 22.0 -18.0 |
| 50 | 19.6 | -15.5 | | 21.4 -17.4 |
| | 19.5 | -15.4 | | 21.0 -17.0 |
| (4.1) | 19.2 | -15.1 | 50 | 21.0 — |
| (4.0) | 19.5 | -15.5 | | 20.8 -16.8 |
| | 19.9 | -15.9 | | 20.8 — |
| 4+00 | 20.0 | -16.0 | | 21.2 -17.2 |
| | 20.0 | — | | 21.2 — |
| | 20.1 | -16.1 | 6+00 | 21.0 -17.0 |
| | 20.2 | -16.2 | | 20.8 -16.8 |
| <u>13:20</u> | 20.3 | -16.3 | | 19.7 -15.7 |
| 4+50 | 20.5 | -16.5 | 6+30 | 16.0 -12.0 |

2-25-18

(68)

| DIST | SOUND | STA-96+00 | DIST | SOUND |
|-------|-------|-----------|--------------|------------|
| 6+90 | 19.5 | -10.5 | | |
| 50 | 19.7 | -10.7 | | |
| (4.0) | 15.0 | -11.0 | | |
| | 19.8 | -10.8 | | |
| | 19.9 | -10.9 | | |
| | 15.1 | -11.1 | | |
| | 15.1 | — | 7+00 | 15.1 — |
| | 19.9 | -10.9 | <u>13:25</u> | 19.9 -10.9 |
| | 19.9 | — | | 19.9 — |
| | 19.9 | — | | 19.9 — |
| | 19.5 | -10.5 | 50 | 19.5 -10.5 |

2-25-48

STA-48+0.0

0+00=STA ~~48+00~~ 900' SOUTH SECT "D" 2/4i SOUND NORTH

| DIST | SOUND | DIST | SOUND |
|-------|------------|-------|-------------------------------|
| 0+00 | 4.0 -0.3 | 1+60 | 20.0 -16.3 |
| +10 | 4.1 -0.4 | | 19.8 27.8 -16.1 |
| 13:35 | 4.7 -1.0 | (3.7) | 19.5 -15.8 |
| (3.7) | 5.0 -1.3 | | 19.0 -15.3 |
| | 12.0 -8.3 | 2+00 | 18.0 -14.3 |
| 5.0 | 16.1 -12.4 | | 17.5 -13.8 |
| | 16.0 -12.3 | | 17.0 -13.3 |
| | 16.0 — | (3.7) | 15.0 -11.3 |
| | 16.5 -12.8 | 13:40 | 16.7 -13.0 |
| | 16.7 -13.0 | 5.0 | 17.1 -13.5 |
| 1+00 | 16.4 -12.7 | (3.6) | 16.0 -12.4 |
| | 16.2 -12.5 | | 17.1 -13.5 |
| | 17.2 -13.5 | | 17.1 — |
| | 16.8 -13.1 | | 18.1 -14.5 |
| | 20.1 -16.4 | 3+00 | 18.0 -14.4 |
| 1+50 | 20.0 -16.3 | 3+10 | 18.0 — |

STA-48+00

2-25-48

(69)

| DIST | SOUND | DIST | SOUND |
|-------|------------|-------|-----------------------|
| 7+20 | 17.9 -14.3 | 5+00 | 17.9 -14.4 |
| | 17.0 -13.4 | | 17.7 -14.2 |
| (3.6) | 15.8 -12.2 | (3.5) | 17.5 -14.0 |
| 5.0 | 16.2 -12.6 | | 17.0 -13.5 |
| | 17.5 -13.9 | | 16.5 -13.0 |
| 13:45 | 17.5 — | 5.0 | 16.5 — |
| | 17.2 -13.6 | | 16.0 -12.5 |
| | 18.0 -14.4 | | 16.5 -13.0 |
| 4+00 | 17.5 -13.9 | | 17.2 -13.7 |
| | 17.5 — | | 17.6 -14.1 |
| | 17.1 -13.5 | 6+00 | 18.3 -14.8 |
| (3.6) | 17.8 -14.2 | | 18.4 -14.9 |
| (3.5) | 17.6 -14.1 | | 18.8 -15.3 |
| 5.0 | 17.6 — | | 18.0 -14.5 |
| 13:45 | 17.6 — | | 16.0 -12.5 |
| | 17.8 -14.3 | 5.0 | 15.5 -12.0 |
| | 17.9 -14.4 | 6.0 | 15.7 -12.2 |
| | | 7.0 | 16.0 -12.5 |
| | | 8.0 | 16.0 — |
| | | 9.0 | 16.1 -12.6 |
| 4+80 | 17.9 — | 7+00 | 16.1 — |
| | | 13:50 | |

STA-47+00

2-25-18

950' S/47+00 SECT'D B/L
SOUND NORTH

| DIST | SOUND | | DIST | SOUND | |
|--------------|-------|-------|-------|-------|-------|
| 0+00 | 4.2 | -1.1 | 1+60 | 20.0 | -16.9 |
| +10 | 4.4 | -1.3 | | 20.0 | — |
| <u>11.07</u> | 4.8 | -1.7 | | 19.9 | -16.8 |
| (3.1) | 5.2 | -2.1 | (3.1) | 19.7 | -16.6 |
| | 14.0 | -10.9 | 2+00 | 19.6 | -16.5 |
| 50 | 18.5 | -15.4 | | 19.4 | -16.3 |
| | 20.8 | -17.7 | | 18.8 | -15.7 |
| | 21.0 | -17.9 | | 18.7 | -15.6 |
| | 21.0 | — | | 18.2 | -15.1 |
| | 20.5 | -17.4 | 50 | 18.4 | -15.3 |
| 1+00 | 20.2 | -17.1 | | 19.0 | -15.9 |
| <u>14.10</u> | 20.0 | -16.9 | | 19.1 | -16.0 |
| | 20.0 | — | | 19.2 | -16.1 |
| | 20.0 | — | | 19.2 | — |
| | 19.8 | -16.7 | 3+00 | 19.0 | -15.9 |
| 1+50 | 20.0 | -16.9 | 3+10 | 18.7 | -15.6 |

STA-47+00

2-25-18

(70)

| DIST | SOUND | | DIST | SOUND | |
|--------------|-------|-------|--------------|-------|-------|
| 3+20 | 18.2 | -15.1 | 5+00 | 18.0 | -15.0 |
| | 18.0 | -14.9 | | 18.0 | — |
| (3.1) | 18.0 | — | (3.0) | 18.0 | — |
| 50 | 17.7 | -14.6 | | 18.0 | — |
| | 17.5 | -14.4 | | 18.0 | — |
| | 17.3 | -14.2 | 50 | 18.0 | — |
| | 17.2 | -14.1 | | 17.8 | -14.8 |
| | 17.2 | — | | 17.4 | -14.4 |
| 4+00 | 17.2 | — | | 17.4 | — |
| | 17.2 | — | | 17.3 | -14.3 |
| (3.1) | 17.3 | -14.2 | 6+00 | 17.4 | -14.4 |
| <u>14.15</u> | 17.3 | — | <u>14.18</u> | 17.8 | -14.8 |
| (3.0) | 17.5 | -14.5 | | 18.0 | -15.0 |
| 50 | 17.4 | -14.4 | | 18.0 | — |
| | 17.3 | -14.3 | | 17.7 | -14.7 |
| | 17.6 | -14.6 | 50 | 16.7 | -13.7 |
| | 17.8 | -14.8 | 60 | 15.3 | -12.3 |
| 4+90 | 18.0 | -15.0 | 70 | 14.4 | -11.4 |
| | | | 80 | 14.0 | -11.0 |
| | | | 90 | 14.0 | — |
| | | | 7+00 | 14.0 | — |

END SECTION 800' SOUTH STA. 49+00 SECT. "D" B/L.

~~0+00-PT. 800' S/49+00 SECT. "D" B/L: SOUND WEST~~

| DIST | SOUND | DIST | SOUND |
|-------|-------|-------|-------|
| 0+00 | 3.2 | -0.7 | 1760 |
| +10 | 3.2 | — | 19.0 |
| 14:36 | 3.1 | -0.6 | 18.0 |
| (2.5) | 3.1 | — | 18.4 |
| | 3.1 | — | 18.7 |
| 50 | 3.2 | -0.7 | 18.9 |
| | 3.2 | — | 19.5 |
| | 3.5 | -1.0 | 19.5 |
| | 3.7 | -1.2 | 19.5 |
| | 10.5 | -8.0 | 19.6 |
| 14:00 | 15.7 | -13.2 | 19.8 |
| | 18.5 | -16.0 | 19.8 |
| | 18.8 | -16.3 | 19.8 |
| | 18.8 | — | 19.8 |
| | 18.7 | -16.2 | 20.0 |
| 14:50 | 18.8 | -16.3 | 21.2 |
| | | | 22.0 |

END SECTION 800' SOUTH 2-25-78

(71)

| DIST | SOUND | DIST | SOUND |
|-------|-------|-------|-------|
| 3+20 | 22.0 | -19.5 | 5+00 |
| | 22.0 | — | 18.8 |
| (2.5) | 21.2 | -18.7 | (2.9) |
| 50 | 18.1 | -15.6 | 13.0 |
| | 18.0 | -15.5 | 3.5 |
| 14:43 | 18.0 | — | 50 |
| | 18.0 | — | 3.7 |
| | 18.0 | — | 3.7 |
| 4+00 | 18.0 | — | 2.0 |
| | 18.0 | — | 9.1 |
| | 18.0 | — | 6+00 |
| | 17.8 | -15.3 | 10.4 |
| | 17.7 | -15.2 | 10.1 |
| 50 | 17.7 | — | 1.2 |
| (2.5) | 17.9 | -15.4 | 8.8 |
| (2.4) | 18.5 | -16.1 | 5.0 |
| 14:45 | 18.5 | — | 3.7 |
| 14:50 | 18.1 | -16.0 | 3.5 |
| | | | 3.8 |
| | | | 3.6 |
| | | | 3.6 |
| | | | 7+00 |

END SECTION N 700' SOUTH STA-49+00 SECT. "D" B/L.

~~0+00 PT. 700' S/13+00 SECT. "D" B/L.~~ SOUND WEST

| DIST | SOUND | DIST | SOUND |
|--------------|---------------------------|--------------|------------|
| 0+00 | 3.8 -1.5 | 1+60 | 16.5 -14.2 |
| +10 | 3.8 — | | 16.7 -14.4 |
| <u>14.55</u> | 3.7 -1.4 | (2.3) | 17.0 -14.7 |
| (2.3) | 3.5 -1.2 | <u>14.58</u> | 16.8 -14.5 |
| | 3.5 — | 2+00 | 17.7 -15.4 |
| 50 | 3.3 -1.0 | | 17.8 -15.5 |
| | 3.0 -0.7 | | 17.5 -15.2 |
| | 3.0 — | | 17.3 -15.0 |
| | 11.6 -9.3 | | 17.3 — |
| | 14.5 -12.2 | 50 | 17.3 — |
| 1+00 | <u>15.0</u> 16.0 -12.7 | | 17.5 -15.2 |
| | 16.0 -13.7 | | 17.8 -15.5 |
| | 16.1 -13.8 | | 18.0 -15.7 |
| | 16.0 -13.7 | | 18.5 -16.2 |
| | 16.2 -13.9 | 3+00 | 19.0 -16.7 |
| 1+50 | 16.4 -14.1 | 3+10 | 19.5 -17.2 |

END SECTION 700' SOUTH 2-25-48

(72)

| DIST | SOUND | DIST | SOUND |
|-------|------------|--------------|-----------------------|
| 3+20 | 19.8 -17.5 | 5+00 | 19.5 -17.7 |
| (2.3) | 18.8 -16.5 | <u>15.03</u> | 19.9 — |
| (2.2) | 17.3 -15.1 | | 19.9 — |
| 50 | 16.0 -13.8 | (2.2) | 19.5 -17.3 |
| | 16.0 — | | 19.0 -16.8 |
| | 16.1 -13.9 | 50 | 17.8 -15.6 |
| | 16.3 -14.1 | | 17.5 -15.3 |
| | 16.5 -14.3 | | 17.1 -14.9 |
| 4+00 | 16.7 -14.5 | | 17.1 — |
| | 16.7 — | | 17.1 — |
| | 17.0 -14.8 | 6+00 | 17.5 -15.3 |
| | 16.7 -14.5 | | 17.6 -15.4 |
| | 16.7 — | <u>15.05</u> | 17.2 -15.0 |
| 50 | 16.5 -14.3 | | 17.1 -14.9 |
| | 16.8 -14.6 | | 17.0 -14.8 |
| | 17.1 -14.9 | 50 | 17.0 — |
| | 17.4 -15.2 | | 17.0 — |
| 4+30 | 17.5 -15.3 | 6+70 | 17.2 -15.0 |

END SECT. 700' SOUTH

2-25-98

DIST SOUND DIST SOUND

~~6480~~ 12.9 -15.2~~(2.2)~~ 17.9 —

7400 12.5 -15.3

17.0 -14.8

13.2 -11.0

3.5

~~17.5~~ -1.3

2.1 -0.2

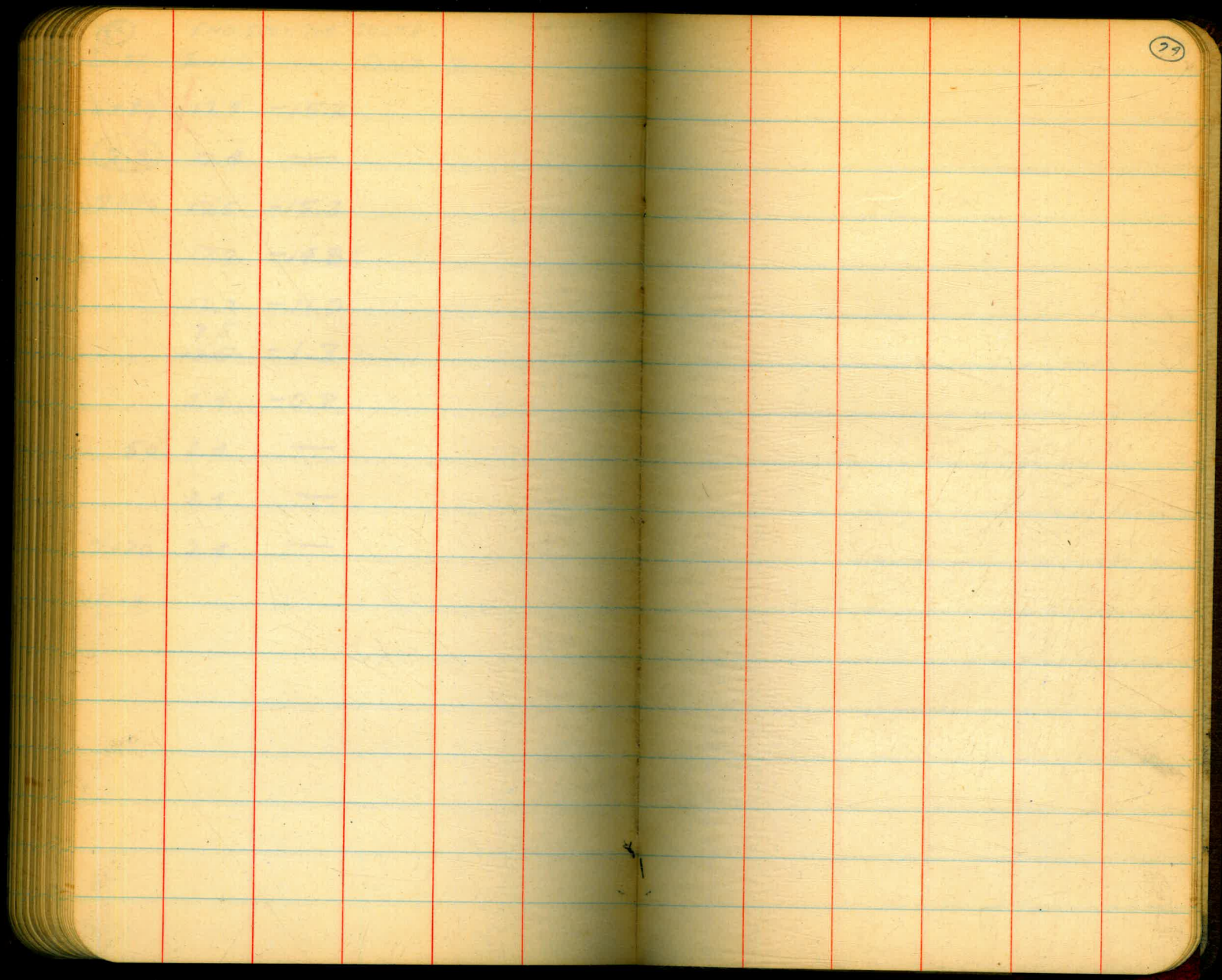
50 2.4 —

2.1 —

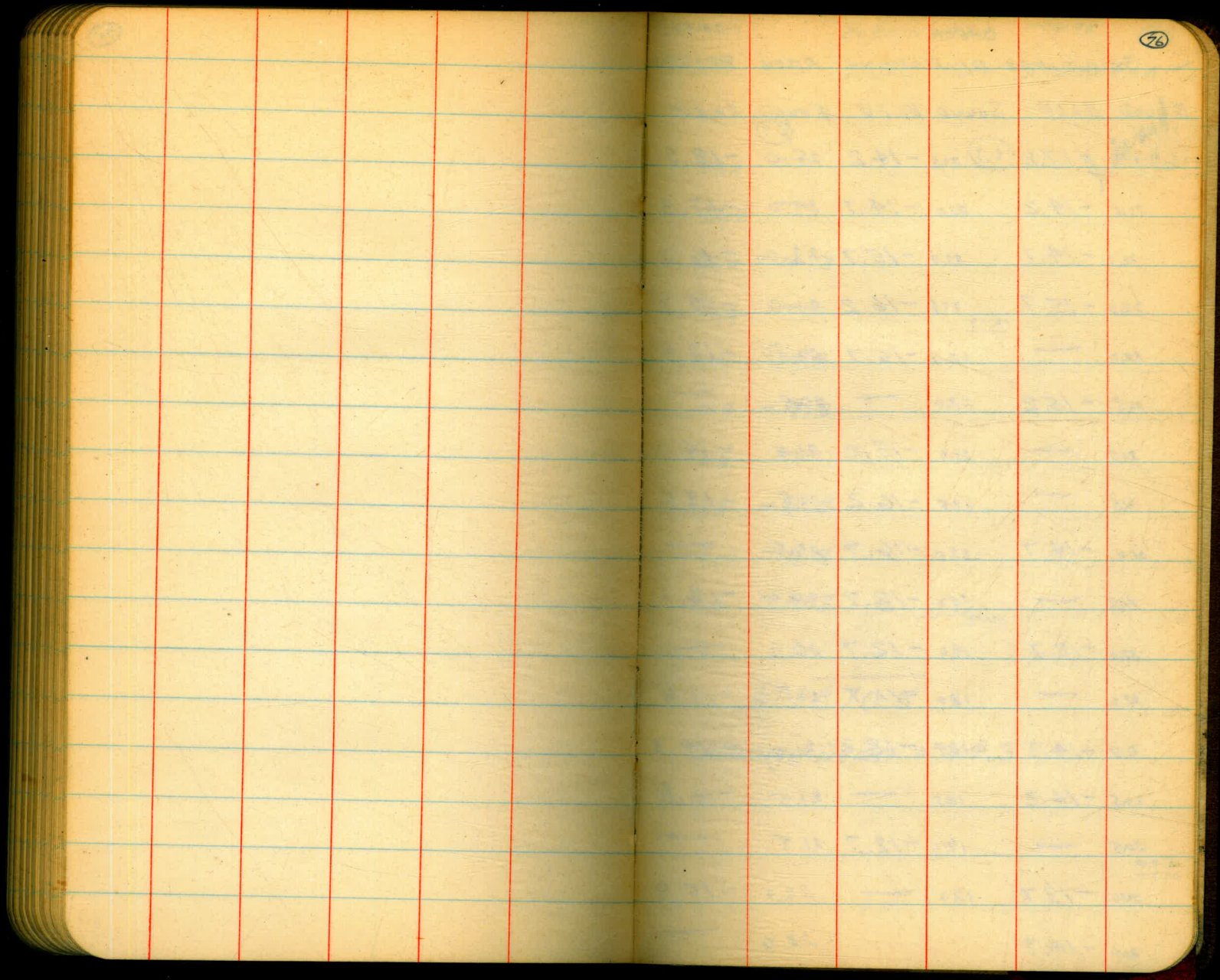
7470 2.1 —

15.08

(73)



The image shows an open notebook with two facing pages. The pages are cream-colored and feature light blue horizontal ruling. Vertical red lines create margins on both sides of the central gutter. The notebook is bound in the center, with two visible staples or stitches. The right page has a small, circular stamp in the top right corner containing the number '25'. The notebook is set against a dark, solid background.



1-27-98

"CENTER ISLAND" PATERA

TO
POLE KENDAL HORSE CHIMNEY

| | | | | |
|-----|-----|-----|-----|-----|
| 1. | 55° | 20' | 41° | 15' |
| 2. | 55° | 40' | 42° | 05' |
| 3. | 57° | 50' | 43° | 32' |
| 4. | 59° | 55' | 44° | 35' |
| 5. | 62° | 10' | 45° | 32' |
| 6. | 64° | 20' | 46° | 35' |
| 7. | 66° | 35' | 46° | 55' |
| 8. | 68° | 25' | 45° | 25' |
| 9. | 69° | 40' | 44° | 10' |
| 10. | 68° | 05' | 43° | 15' |
| 11. | 65° | 35' | 42° | 10' |
| 12. | 62° | 10' | 41° | 20' |
| 13. | 57° | 20' | 39° | 50' |
| 14. | 55° | 10' | 40° | 00' |

15.

16.

17.

1-27-98

"SOUTH ISLAND" PATERA

TO
POLE KENDAL HORSE CHIMNEY

| | | | | |
|-----|-----|-----|--|-----|
| 1. | 53° | 10' | 41° | 05' |
| 2. | 52° | 35' | 42° | 05' |
| 3. | 49° | 10' | 43° | 00' |
| 4. | 46° | 25' | 42° | 52' |
| 5. | 44° | 40' | 41° | 05' |
| 6. | 43° | 10' | 39° | 50' |
| 7. | 43° | 00' | 38° | 50' |
| 8. | 44° | 00' | LINDA VISTA TARA CHIMNEY 30° 55' | |
| 9. | 46° | 10' | HORSE CHIMNEY 39° 00' | |
| 10. | 48° | 30' | H C 39° 05' | |
| 11. | 50° | 50' | H C 39° 20' | |
| 12. | 52° | 50' | H C 40° 05' | |

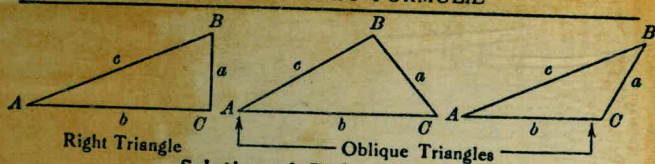
(78)

Indexed

N-13,095
 W-12,000
 93 E 10.97
 + 8.31
 H.I. 19.28
 - 5.09
 E 19.19 T.P.
 + 3.01
 H.I. 17.23
 - 2.33 (R. 101-STA-92)
 E 19.90 T.B.M. 2x2
 + 2.65
 H.I. 17.55
 - 1.91 T.P.
 E 12.69 T.P. (86+85)
 + 5.52
 H.I. 18.16
 - 5.11
 E 13.05 T.P. - R. 101-STA-79
 + 3.93
 H.I. 16.18
 - 6.70
 9.78 T.P. (105-78)
 + 2.71
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115 UP 97 UP PRO 8
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 11.05 84700 CAL SW AY
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 17.77
 13.25
 9.22
 660
 20
 690
 70
 735
 1170

TRIGONOMETRIC FORMULÆ



Solution of Right Triangles
 For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{b}$, $\text{cosec} = \frac{c}{a}$
 Given Required
 a, b A, B, c $\tan A = \frac{a}{b} = \cot B$, $c = \sqrt{a^2 + b^2} = a \sqrt{1 + \frac{b^2}{a^2}}$
 a, c A, B, b $\sin A = \frac{a}{c} = \cos B$, $b = \sqrt{(c+a)(c-a)} = c \sqrt{1 - \frac{a^2}{c^2}}$
 A, a B, b, c $B = 90^\circ - A$, $b = a \cot A$, $c = \frac{a}{\sin A}$
 A, b B, a, c $B = 90^\circ - A$, $a = b \tan A$, $c = \frac{b}{\cos A}$
 A, c B, a, b $B = 90^\circ - A$, $a = c \sin A$, $b = c \cos A$

Solution of Oblique Triangles
 Given Required
 A, B, a b, c, C $b = \frac{a \sin B}{\sin A}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$
 A, a, b B, c, C $\sin B = \frac{b \sin A}{a}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$
 a, b, C A, B, c $A + B = 180^\circ - C$, $\tan \frac{1}{2}(A - B) = \frac{(a - b) \tan \frac{1}{2}(A + B)}{a + b}$
 $c = \frac{a \sin C}{\sin A}$
 a, b, c A, B, C $s = \frac{a + b + c}{2}$, $\sin \frac{1}{2}A = \sqrt{\frac{(s - b)(s - c)}{bc}}$
 $\sin \frac{1}{2}B = \sqrt{\frac{(s - a)(s - c)}{ac}}$, $C = 180^\circ - (A + B)$
 a, b, c Area $s = \frac{a + b + c}{2}$, $\text{area} = \sqrt{s(s - a)(s - b)(s - c)}$
 A, b, c Area $\text{area} = \frac{bc \sin A}{2}$
 A, B, C, a Area $\text{area} = \frac{a^2 \sin B \sin C}{2 \sin A}$

REDUCTION TO HORIZONTAL

Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 318.4 ft. Vert. angle = 5° 10'. From Table, Page IX. $\cos 5^\circ 10' = .9959$. Horizontal distance = $318.4 \times .9959 = 318.09$ ft.
 Horizontal distance also = Slope distance times (1 - cosine of vertical angle). With the same figures as in the preceding example, the following result is obtained. $\cos 5^\circ 10' = .9959$. $1 - .9959 = .0041$. $318.4 \times .0041 = 1.31$. $318.4 - 1.31 = 318.09$ ft.
 When the rise is known, the horizontal distance is approximately: — the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft., slope distance = 302.6 ft. Horizontal distance = $302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$ ft.