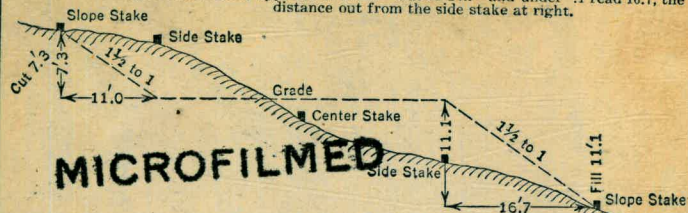


MISSION BAY

No. 38

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.

BOOK # 38

(7-28-98)

112-3" B/L = N 72° 12' 43" W

17960
 92 13
 107° 47'

The paper in this book No. 373A

is made of 50% high grade rag stock

with a WATER RESISTING surface sizing.

BOOK # 38

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7-28-48

BARRAGAN
SHERRY
STANLEY7-28-48
CLEAR
WARM
LIGHT WIND

FINAL SOUNDINGS OF PROJ-#9

PX

SECTION "ABC"

STA - 169+00

STA - 168+00-W

0+00=STA-W-169+00 "1-2-3" B/L: SOUND DUE SOUTH

0+00=STA-W-168+00 "1-2-3" B/L: SOUND DUE SOUTH

| DIST SOUND | | | DIST SOUND | | | DIST SOUND | | | DIST SOUND | | | |
|------------|------|------|------------|------|------|------------|-------|-------|------------|-------|------|------|
| | | | | | | 0+00 | 1.4 | +2.5 | 1+70 | 12.8 | -8.9 | |
| 0+00 | 1.6 | +2.2 | 1+60 | 12.7 | -8.9 | +10 | 1.9 | — | | 12.9 | -9.0 | |
| | +10 | 1.7 | +2.1 | | 12.7 | — | 12:48 | 1.9 | — | (3.9) | 12.7 | -8.5 |
| 12:42 | 1.9 | +1.9 | (3.8) | 12.7 | — | (3.9) | 1.8 | +2.1 | 2+00 | 12.7 | — | |
| (3.8) | 6.0 | -2.2 | | 12.5 | -8.7 | | 8.0 | -4.1 | | 12.7 | — | |
| | 10.7 | -6.9 | 2+00 | 12.6 | -8.8 | 50 | 12.1 | -8.2 | | 12.3 | -8.1 | |
| 50 | 12.0 | -8.2 | | 12.8 | -9.0 | | 12.3 | -8.4 | | 12.3 | — | |
| | 12.0 | — | | 13.0 | -9.2 | | 12.5 | -8.6 | | 12.1 | -8.2 | |
| | 12.0 | — | 12:45 | 12.8 | -9.0 | | 13.1 | -9.2 | 50 | 12.0 | -8.1 | |
| | 12.0 | — | | | | | 13.0 | -9.1 | 12:51 | | | |
| | 12.0 | — | | | | 1+00 | 13.8 | -9.9 | | | | |
| 1+00 | 12.1 | -8.3 | | | | | 19.0 | -10.1 | | | | |
| | 12.0 | -8.2 | | | | | 13.8 | -9.9 | | | | |
| | 12.1 | -8.3 | | | | | 12.8 | -8.9 | | | | |
| | 12.1 | — | | | | | 12.7 | -8.5 | | | | |
| | 12.2 | -8.4 | | | | 50 | 12.5 | -8.6 | | | | |
| 1+50 | 12.7 | -8.6 | | | | 1+60 | 12.7 | -8.8 | | | | |

PX STA-170+00

0+00=STA W-170+00 "1-2-3" B/L: SOUND DUE SOUTH

| DIST | SOUND | | DIST | SOUND | |
|--------------|-------|------|--------------|-------|------|
| 0+00 | 1.3 | +2.7 | 1+80 | 12.2 | -8.2 |
| +10 | 1.3 | — | | 12.2 | — |
| <u>13:05</u> | 1.4 | +2.6 | 2+00 | 11.9 | -7.9 |
| (4.0) | 4.5 | -0.5 | (4.0) | 11.5 | -7.5 |
| | 2.0 | -3.0 | | 11.6 | -7.6 |
| 50 | 11.2 | -7.2 | | 11.8 | -7.8 |
| | 11.8 | -7.8 | | 12.0 | -8.0 |
| | 11.9 | -7.9 | 50 | 12.0 | — |
| | 12.4 | -8.4 | | 12.0 | — |
| | 13.0 | -9.0 | | 12.0 | — |
| 1+00 | 13.1 | -9.1 | | 12.0 | — |
| | 13.1 | — | | 12.0 | — |
| | 13.0 | -9.0 | 3+00 | 12.0 | — |
| | 13.0 | — | <u>13:09</u> | | |
| | 13.0 | — | | | |
| 50 | 12.1 | -8.1 | | | |
| | 12.1 | — | | | |
| 1+70 | 12.1 | — | | | |

STA-171+00 PX

0+00=STA W-171+00 "1-2-3" B/L: SOUND DUE SOUTH

| DIST | SOUND | | DIST | SOUND | |
|--------------|-------|------|--------------|-------|------|
| 0+00 | 1.7 | +2.3 | 1+80 | 12.0 | -8.0 |
| +10 | 1.7 | — | | 12.2 | -8.2 |
| <u>13:07</u> | 2.0 | +2.0 | 2+00 | 12.2 | — |
| | 8.1 | -4.1 | | 12.2 | — |
| | (4.0) | -7.0 | (4.0) | 12.3 | -8.3 |
| 50 | 12.4 | -8.4 | | 11.5 | -7.5 |
| | 12.3 | -8.3 | | 11.7 | -7.7 |
| | 12.2 | -8.2 | 50 | 11.7 | — |
| | 12.1 | -8.1 | | 11.7 | — |
| | 12.0 | -8.0 | | 12.1 | -8.1 |
| 1+00 | 12.0 | — | | 12.2 | -8.2 |
| | 12.0 | — | | 12.0 | -8.0 |
| | 12.0 | — | 3+00 | 12.0 | — |
| | 11.9 | -7.9 | | 11.9 | -7.9 |
| | 11.8 | -7.8 | | 11.9 | — |
| 50 | 11.5 | -7.5 | | 12.0 | -8.0 |
| | 11.5 | — | <u>13:12</u> | 12.0 | — |
| 1+70 | 12.0 | -8.0 | 3+50 | 12.0 | — |

~~DX~~ STA-W-172+00

STA-W-173+00 ~~DX~~

0+00=STA-W-172+00 "1-2-3" 8/16 SOUND DUE SOUTH.

0+00=STA-W-173+00 "1-2-3" 8/16 SOUND DUE SOUTH.

| DIST SOUND | | | DIST SOUND | | | DIST SOUND | | | DIST SOUND | | | |
|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------|
| 0+00 | 1.9 | +2.7 | 1+80 | 13.2 | -9.1 | 0+00 | 1.9 | +2.8 | 1+80 | 13.0 | 8.8 | |
| +10 | 1.9 | — | | 13.5 | -9.4 | +10 | 1.9 | — | | 13.0 | — | |
| 13:16 | 1.5 | +2.6 | 2+00 | 13.1 | -9.0 | 13:26 | 4.0 | +0.2 | 2+00 | 13.0 | — | |
| (4.1) | 8.0 | -3.9 | (4.1) | 12.7 | -8.6 | (4.2) | 9.5 | -5.3 | (4.2) | 13.0 | — | |
| | 10.4 | -6.3 | | 12.2 | -8.1 | | 12.9 | -8.7 | | 12.9 | -8.7 | |
| 50 | 12.5 | -8.4 | | 12.0 | -7.9 | 50 | 13.0 | -8.8 | | 12.5 | -8.3 | |
| | 12.5 | — | | 12.1 | -8.0 | | 13.0 | — | | 12.0 | -7.8 | |
| | 12.5 | — | -50 | 11.5 | -7.4 | | 13.0 | — | 50 | 12.2 | -8.0 | |
| | 12.6 | -8.5 | | 11.8 | -7.7 | | 13.0 | — | | 12.1 | -7.9 | |
| | 12.4 | -8.3 | | 11.8 | — | | 13.0 | — | | 12.0 | -7.8 | |
| 1+00 | 12.4 | — | | 11.6 | -7.5 | 1+00 | 13.0 | — | | 12.0 | — | |
| | 12.4 | — | | 11.7 | -7.6 | | 13.0 | — | | 12.0 | — | |
| | 12.4 | — | 3+00 | 12.0 | -7.9 | | 13.1 | -8.9 | 3+00 | 12.0 | — | |
| | 12.5 | -8.4 | | 12.5 | -8.4 | | 13.2 | -9.0 | 10 | 12.0 | — | |
| | 12.9 | -8.8 | | 12.8 | -8.7 | | 13.2 | — | 20 | 12.0 | — | |
| | 13.0 | -8.9 | | 13.0 | -8.9 | | 13.2 | — | 30 | 12.9 | -8.7 | |
| 50 | 13.1 | -9.0 | | 13.0 | — | 50 | 13.4 | -9.2 | 40 | 12.7 | -8.5 | |
| | 13.1 | -9.0 | 13:21 | 13.0 | — | | 13.1 | -8.9 | 3+50 | 12.4 | -8.2 | |
| 1+70 | 13.1 | -9.0 | 3+50 | 12.5 | -8.4 | | 13.1 | -8.9 | 60 | 12.4 | -8.2 | |
| | | | 3+60 | 12.8 | -8.7 | 1+70 | 13.2 | -9.0 | 70 | 12.1 | -7.9 | |
| | | | | | | | | | 13:32 | 80 | 12.0 | -7.8 |
| | | | | | | | | | | 90 | 11.8 | -7.6 |
| | | | | | | | | | | 1+00 | 11.8 | -7.6 |

~~PX~~ STA-W-174+00

0+00=STA-W-174+00 "1-2-3" B/L: SOUND DUE SOUTH

| DIST | SOUND | | DIST | SOUND |
|-------|-------|------|-------|------------|
| 0+00 | 1.8 | +2.6 | 1+80 | 13.0 -8.6 |
| +10 | 1.9 | +2.5 | | 13.3 -8.9 |
| 13:55 | 6.0 | -1.6 | 2+00 | 13.3 — |
| (4.1) | 11.3 | -6.9 | (4.1) | 13.5 -9.1 |
| | 12.3 | -7.9 | | 14.1 -9.7 |
| 50 | 12.5 | -8.1 | | 14.1 — |
| | 12.6 | -8.2 | | 14.6 -10.2 |
| | 12.6 | — | 50 | 14.4 -10.0 |
| | 12.6 | — | | 13.0 -8.6 |
| | 12.6 | — | | 12.8 -8.4 |
| 1+00 | 12.7 | -8.3 | | 12.8 — |
| | 12.8 | -8.4 | | 12.8 — |
| | 12.8 | — | 3+00 | 12.8 — |
| | 12.8 | — | | 13.0 -8.6 |
| | 13.0 | 8.6 | | 12.4 -8.0 |
| 50 | 13.0 | — | | 12.0 -7.6 |
| | 13.0 | — | | 12.3 -7.9 |
| 1+70 | 13.1 | -8.7 | 3+50 | 12.2 -7.8 |

STA-174+00

7-28-48

(7)

~~PX~~ DIST SOUND DIST SOUND

3+60 11.8 -7.4

12.0 -7.6

(4.4) 12.1 -7.7

12.4 -8.0

4+00 12.2 -7.8

11.5 -7.1

11.0 -6.6

11.0 —

11.0 —

50 11.3 -6.9

11.8 -7.4

11.8 —

11.7 -7.3

11:03 11.4 -7.0

5+00 11.6 -7.2

7-28-18

STA-W-175+00

7-28-18

⑤

STA-W-175+00

DIST SOUND

DIST SOUND

0+00 STA-W-175+00 "1-2-3" B/L: SOUND DUE SOUTH

3+60 12.7 -8.2

DIST SOUND

DIST SOUND

12.9 -7.9

0+00 1.5 +3.0 1+80 13.6 -9.1

(4.5) 12.8 -8.3

+10 1.6 +2.9 13.4 -8.9

13.0 -8.5

19:09 4.0 +0.5 2+00 13.4 —

4+00 13.0 —

(4.5) 10.2 -5.7 (4.5) 13.4 —

12.9 -8.4

12.8 -8.3 13.2 -8.7

12.2 -7.7

50 12.8 -8.3 15.1 -10.6

12.3 -7.8

13.0 -8.5 15.5 -11.0

12.5 -8.0

13.0 — 50 15.3 -10.8

50 12.4 -7.9

13.0 — 15.1 -10.6

12.1 -7.6

13.0 — 13.5 -10.0

12.4 -7.9

1+00 13.0 — 13.8 -9.3

12.0 -7.5

13.1 -8.6 13.3 -8.8

12.0 —

13.1 — 3+00 13.3 —

5+00 12.0 —

13.2 -8.7 13.7 -9.2

12.0 —

13.2 — 12.8 -8.3

12.0 —

50 13.5 -9.0 12.5 -8.0

12.0 —

13.5 — 12.4 -7.9

19:09 12.0 —

1+70 13.5 — 3+50 12.9 —

5+50 12.0 —

7-28-48

STA-W-176±00

7-28-48

⑥

STA-W-176±00

DIST SOUND

DIST SOUND

0+00 = STA-W-176±00 "1-2-3" B/L: SOUND DUE SOUTH 3+60 14.0 -9.3 5+60 12.0 -7.3

DIST SOUND DIST SOUND 13.3 -8.6 11.8 -7.1

0+00 1.7 +3.0 1+80 12.7 -8.0 13.0 -8.3 (4.7) 11.9 -7.2

+10 1.7 — 12.6 -7.9 (4.7) 12.4 -7.7 14.31 12.0 -7.3

19.23 2.0 +2.7 2+00 12.3 -7.6 4+00 12.3 -7.6 6+00 12.0 —

(4.7) 7.5 -2.8 (4.7) 12.3 — 12.3 -7.6

11.4 -6.7 12.0 -7.3 11.5 -6.8

11.8 -7.1 12.0 — 11.4 -6.7

12.5 -7.8 14.1 -9.4 11.3 -6.6

12.8 11.8 -8.1 50 14.5 -9.8 50 11.5 -6.8

12.8 14.6 -9.9 11.5 —

11.8 — 14.5 -9.8 11.6 -6.9

1+00 12.8 — 14.3 -9.6 11.8 -7.1

12.8 — 14.3 — 11.8 —

12.9 -8.2 3+00 14.2 -9.5 5+00 11.8 —

13.0 -8.3 14.0 -9.3 12.2 -7.5

13.0 — 14.1 -9.4 12.0 -7.3

50 13.0 — 14.0 -9.3 12.0 —

12.8 -8.1 14.0 — 12.1 -7.4

1+70 12.7 -8.0 3+50 14.0 — 5+50 12.0 -7.3

7-28-48
7-29-48

STA-177+00

7-28-48
7-29-48

(2)

STA-W-177+00

DIST SOUND

DIST SOUND

0+00 = STA-W-177+00 "12-3" B/L. SOUND DUE SOUTH 3+60 12.3 - 7.9

DIST SOUND

DIST SOUND

12.3

0+00 1.4 +3.0 1+80 12.6 -8.2

12.3

+10 1.5 +2.9

12.5 -8.1

(4.4)

12.1

-7.7

13:58

5.0 -0.6

2+00

12.5

4+00

12.0

-7.6

10.2 -5.8

12.6 -8.2

12.4

-8.0

(4.4)

12.4 -8.0

(4.4)

12.5 -8.1

12.0

-7.6

50 12.5 -8.1

12.5

12.1

-7.7

12.5

12.3 -7.3

12.4

-8.0

12.7 -8.3

50

12.1 -8.0

50

11.8

-7.4

12.9 -8.5

12.9 -8.5

11.8

-

13.0 -8.6

13.0 -8.6

11.6

-7.2

1+00

13.0

17:02

13.0

11.8

-7.4

12.8 -8.4

12.7 -8.3

12.0

-7.6

12.8

3+00

12.7 -8.0

5+00

12.0

-

13.0 -8.6

12.7

11.7

-7.3

13.0

12.2 -7.8

11.6

-7.2

50 13.1 -8.7

12.3 -7.9

11.5

-7.1

13.0 -8.6

12.5 -8.1

19:05

11.5

-7.1

1+70

12.8 -8.4

3+50

12.4 -8.0

5+50

11.5

-

STA-178+00

DIST SOUND

DIST SOUND

PX

PX

0+00 = STA-W-178+00 "1-2-3" B/L: SOUND DUE SOUTH 3+60 13.1 -8.9

DIST SOUND

DIST SOUND

13.6 -9.1

0+00 2.6 +1.9 1+80 12.6 -8.1 (4.5) 13.8 -9.3

+10 2.8 +1.7 12.6 - 14.2 -9.7

14:10 3.0 +1.5 2+00 13.0 -8.5 4+00 14.1 -9.6

7.2 -2.7 13.1 -8.6 14.7 -10.2

(4.5) 11.4 -6.9 (4.5) 13.1 - 15.1 -10.6

50 12.4 -7.9 13.1 - 15.2 -10.7

12.7 -8.2 13.0 -8.5 14.5 -10.0

12.7 - 50 12.7 -8.3 50 12.8 -8.3

12.8 -8.3 13.5 -9.0 13.0 -8.5

13.0 -8.5 13.6 -9.1 12.5 -8.0

1+00 13.0 - 13.8 -9.3 11.5 -7.0

13.0 - 13.7 -9.2 11.5 -

13.0 - 3+00 13.4 -8.9 5+00 11.5 -

13.1 -8.6 14:13 13.1 - 11.7 -7.2

13.2 -8.7 13.4 - 11.8 -7.3

50 13.2 - 13.2 -8.7 12.0 -7.5

13.0 -8.5 13.3 -8.8 14:16 12.4 -7.9

1+70 12.8 -8.3 3+50 13.4 -8.9 5+50 12.5 -8.0

PX

STA-179+00

DIST SOUND

DIST SOUND

0+00 STA-W-179+00 "1-2-3" 3/4: SOUND DUE SOUND

| DIST | SOUND | DIST | SOUND |
|-------|------------|-------|------------|
| 0+00 | 1.9 + 2.7 | 1+80 | 13.0 - 8.4 |
| +10 | 2.1 + 2.5 | | 13.0 |
| 14:20 | 9.9 + 0.2 | 2+00 | 12.9 - 8.2 |
| | 9.7 - 5.1 | | 12.8 - 8.2 |
| (4.6) | 12.0 - 7.4 | (4.6) | 12.5 - 7.2 |
| 50 | 12.7 - 8.1 | | 12.5 |
| | 12.7 | | 12.7 - 8.2 |
| | 12.8 - 8.2 | 50 | 13.2 - 8.2 |
| | 13.0 - 8.7 | | 14.0 - 8.2 |
| | 13.0 | | 14.2 - 8.2 |
| 1+00 | 13.1 - 8.5 | | 14.0 - 8.2 |
| | 13.2 - 8.6 | | 13.7 - 8.2 |
| | 13.5 - 8.9 | 3+00 | 13.7 |
| | 13.5 | | 13.7 |
| | 13.3 - 8.7 | | 13.7 |
| 50 | 13.3 | | 13.7 |
| | 13.2 - 8.6 | | 13.7 |
| 1+70 | 13.1 - 8.5 | 3+50 | 13.5 - 8.2 |

| DIST | SOUND | DIST | SOUND |
|-------|-------------|-------|------------|
| 3+60 | 13.5 - 8.9 | 5+60 | 12.0 - 7.4 |
| | 13.5 | | 12.0 |
| (4.6) | 13.5 | 14:25 | 12.0 |
| | 13.5 | | 12.0 |
| 3+00 | 13.0 - 8.4 | 6+00 | 12.0 - 7.4 |
| | 13.1 - 8.5 | | 11.8 - 7.2 |
| | 13.1 | (4.6) | 11.7 - 7.1 |
| | 13.0 - 8.4 | | 11.6 - 7.0 |
| | 13.1 - 8.5 | | 11.7 - 7.1 |
| 50 | 14.6 - 10.0 | 50 | 12.0 - 7.4 |
| | 15.0 | | |
| | 14.0 - 10.4 | 6+60 | 12.0 - 7.4 |
| | 15.0 - 10.4 | | |
| | 14.8 - 10.2 | | |
| | 14.8 | | |
| | 14.8 | | |
| | 14.0 - 9.4 | | |
| | 13.6 - 9.0 | | |
| | 13.3 - 8.7 | | |
| | 12.8 - 8.2 | | |
| 5+50 | 12.4 - 7.8 | | |

7-29-98

STA-180+00

7-29-98

(10)

STA-180+00

DIST

SOUND

DIST

SOUND

0+00=STA-W-180+00"-2-3" 3/4: SOUND DUE SOUTH

3+60

13.0

-8.3

5+60

12.8

-8.1

DIST SOUND

DIST SOUND

13.0

-8.3

14:35

12.6

-7.9

0+00

2.0

+2.7

1+80

13.8

-9.1

(4.7)

13.0

-8.3

12.1

-7.4

+10

2.0

+2.7

13.8

-9.1

13.3

-8.6

(4.7)

12.3

-7.6

14:31

3.1

+1.6

2+00

13.8

-9.1

4+00

14.0

-9.3

6+00

12.0

-7.3

9.0

-4.3

13.5

-8.8

14.0

-9.3

12.0

(4.7)

12.4

-7.7

(4.7)

13.4

-8.7

14.0

-9.3

12.0

50

13.1

-8.4

13.2

-8.5

13.5

-8.8

12.0

-7.3

13.1

-8.4

13.1

-9.0

13.5

-8.8

11.8

-7.1

13.2

-8.5

50

13.9

-9.2

50

13.2

-8.7⁵

50

11.6

-6.9

13.2

-8.5

14.0

-9.3

14.1

-9.4

12.0

-7.3

13.2

-8.5

14.2

-9.5

14.2

-9.5

12.0

-7.3

1+00

13.3

-8.6

14.1

-9.4

14.2

-9.5

12.3

-7.6

13.5

-8.8

14.0

-9.3

14.1

-9.4

12.1

-7.4

13.5

-8.8

3+00

13.8

-9.1

5+00

14.1

-9.4

7+00

12.0

-7.3

13.5

-8.8

13.6

-8.9

14.0

-9.3

13.6

-8.9

13.3

-8.6

14.0

-9.3

50

13.7

-9.0

13.3

-8.6

13.7

-9.0

13.8

-9.1

13.2

-8.5

13.1

-8.4

1+70

13.8

-9.1

3+50

13.2

-8.5

5+50

13.0

-8.3

7-29-98

STA-181400

7-29-98

⑩

Px STA-181400

DIST SOUND

DIST SOUND Px

| DIST | | SOUND | | DIST | | SOUND | | | | | |
|--------------|--------------|-------------|-----------------|------|------|--------------|------|-------|--------------|------|------|
| 0+00 | STA W-181400 | "1-2-3" 3/4 | SOUND DUE SOUTH | 3+60 | 13.6 | -8.8 | 5+60 | 13.4 | -8.6 | | |
| | | | | | 13.6 | — | | 13.2 | -8.4 | | |
| 0+00 | 2.3 | +2.5 | 1+80 | 13.3 | -8.5 | (4.8) | 13.9 | -9.1 | (4.8) | 12.5 | -7.7 |
| +10 | 2.3 | — | | 13.2 | -8.4 | | 13.9 | — | | 12.3 | -7.5 |
| <u>14:41</u> | 9.5 | +0.3 | 2+00 | 13.4 | -8.6 | 4+00 | 13.5 | -8.7 | 6+00 | 12.1 | -7.3 |
| | 10.4 | -5.6 | | 13.1 | -8.3 | <u>14:45</u> | 13.3 | -8.5 | | 12.1 | — |
| (4.8) | 12.4 | -7.6 | (4.8) | 13.0 | -8.2 | | 13.0 | -8.2 | | 11.8 | -7.0 |
| 50 | 12.8 | -8.0 | | 12.8 | -8.0 | | 13.0 | — | | 11.7 | -6.9 |
| | 13.0 | -8.2 | | 12.9 | -8.1 | | 13.1 | -8.3 | | 11.7 | — |
| | 13.0 | — | 50 | 13.0 | -8.2 | 50 | 13.5 | -8.7 | 50 | 11.7 | — |
| | 13.0 | — | | 12.5 | -7.7 | | 15.2 | -10.4 | | 11.7 | — |
| | 13.0 | — | | 13.6 | -8.8 | | 16.0 | -11.2 | | 11.8 | -7.0 |
| 1+00 | 13.0 | — | | 13.7 | -8.9 | | 16.0 | — | | 12.0 | -7.2 |
| | 13.1 | -8.3 | | 13.8 | -9.0 | | 15.7 | -10.6 | <u>14:48</u> | 12.0 | — |
| | 13.2 | -8.4 | 3+00 | 13.7 | -8.9 | 5+00 | 15.4 | — | 7+00 | 12.0 | — |
| | 13.0 | -8.2 | | 13.7 | — | | 15.2 | -10.4 | | | |
| | 13.2 | -8.4 | | 13.6 | -8.8 | | 15.2 | — | | | |
| 50 | 13.4 | -8.6 | | 13.5 | -8.7 | | 15.2 | — | | | |
| | 13.4 | — | | 13.5 | — | | 19.0 | -9.2 | | | |
| 1+70 | 13.1 | — | 3+50 | 13.5 | — | 5+50 | 13.7 | -8.9 | | | |

STA-182+00

STA-182+00

0400=STA-W-182+00 "1-2-3" B/L; SOUND DUE SOUTH

| | DIST | SOUND | | DIST | SOUND |
|-------|------|-------|-------|------|-------|
| | | | | | |
| 0400 | 2.3 | +2.6 | 1480 | 12.5 | -7.6 |
| 710 | 2.3 | — | | 12.5 | — |
| 14:53 | 7.5 | +0.4 | 2400 | 12.4 | -7.5 |
| | 10.2 | -5.3 | | 12.4 | — |
| (4.9) | 11.5 | -6.6 | (4.9) | 12.4 | — |
| 50 | 12.0 | -7.1 | | 12.4 | — |
| | 12.0 | — | | 12.4 | — |
| | 12.0 | — | 50 | 12.7 | -7.5 |
| | 12.1 | -7.2 | | 13.2 | -8.5 |
| | 12.1 | — | | 13.4 | -8.5 |
| 1400 | 12.2 | -7.3 | 14:55 | 13.4 | — |
| | 12.2 | — | | 13.5 | -8.5 |
| | 12.4 | -7.5 | 3400 | 13.4 | -8.5 |
| | 12.6 | -7.7 | | 13.4 | — |
| | 12.8 | -7.9 | | 13.3 | -8.5 |
| 50 | 13.0 | -8.1 | | 13.2 | -8.5 |
| | 12.8 | -7.9 | | 13.3 | -8.5 |
| 1470 | 12.6 | -7.7 | 3450 | 13.8 | -8.5 |

| | DIST | SOUND | | DIST | SOUND |
|--|-------|-------|-------|-------|-------|
| | | | | | |
| | 3460 | 13.7 | -8.8 | 5460 | 12.4 |
| | | 13.7 | — | | 12.0 |
| | (4.9) | 13.7 | — | (4.9) | 11.7 |
| | | 13.7 | — | | 11.6 |
| | 4400 | 13.7 | — | 6400 | 11.8 |
| | | 13.8 | -8.9 | | 12.0 |
| | | 13.9 | — | | 12.0 |
| | | 14.9 | -9.0 | | 12.4 |
| | | 13.9 | — | | 12.5 |
| | | 13.8 | -8.9 | | 12.8 |
| | 50 | 13.2 | -8.3 | 50 | 12.8 |
| | | 14.0 | -9.1 | | 12.6 |
| | | 14.3 | -9.4 | | 12.6 |
| | | 14.3 | — | | 12.6 |
| | | 14.5 | -9.6 | | 12.5 |
| | 5400 | 14.8 | -9.9 | 7400 | 12.5 |
| | | 14.8 | — | | 12.6 |
| | | 15.0 | -10.1 | | 12.7 |
| | | 14.5 | -9.6 | | 13.0 |
| | | 13.5 | -8.6 | 14:59 | 13.0 |
| | 6450 | 12.8 | -7.9 | 50 | 13.0 |
| | | | | 7460 | 13.0 |

7-29-48

STA-183+00

~~0400~~ STA W-183+00 "1-2-3" 8/16 SOUND DUE SOUTH

| DIST | SOUND | DIST | SOUND |
|-------|-----------|-------|-----------|
| 0400 | 2.5 +2.5 | 1480 | 12.8 -7.8 |
| +10 | 2.5 | | 12.7 -7.7 |
| 15:10 | 3.0 +2.0 | 2400 | 12.6 -7.6 |
| | 8.1 -3.1 | | 12.6 |
| (5.0) | 11.5 -6.5 | (5.0) | 12.5 -7.5 |
| 50 | 12.7 -7.4 | | 12.7 -7.4 |
| | 12.7 | | 12.7 |
| | 12.6 -7.6 | 50 | 13.2 -8.2 |
| | 12.9 -7.9 | | 14.0 -9.0 |
| | 13.1 -8.1 | | 14.0 |
| 1400 | 13.0 -8.0 | | 14.0 |
| | 13.0 | | 14.1 -9.1 |
| | 13.0 | 3400 | 14.1 |
| | 13.0 | | 14.2 -9.2 |
| | 13.0 | | 14.2 |
| 50 | 13.0 | 15:13 | 14.2 |
| | 13.0 | | 14.2 |
| 1470 | 12.8 -7.8 | 3450 | 14.1 -9.1 |

STA-183+00

7-29-48

(13)

| DIST | SOUND | DIST | SOUND |
|-------|-----------|-------|-----------|
| 3460 | 14.2 -9.2 | 5460 | 14.3 -9.3 |
| | 14.0 -9.0 | 15:15 | 13.5 -8.5 |
| (5.0) | 13.6 -8.6 | (5.0) | 13.1 -8.1 |
| | 13.5 -8.5 | | 12.5 -7.5 |
| 4400 | 13.5 | 6400 | 12.5 |
| | 13.7 -8.4 | | 12.5 |
| | 13.3 -8.3 | | 12.5 |
| | 13.3 | | 12.5 |
| | 13.4 -8.4 | | 12.7 -7.4 |
| 50 | 13.7 | 50 | 12.7 |
| | 13.7 -8.7 | | 12.7 |
| | 13.8 -8.8 | | 12.5 -7.5 |
| | 13.8 | | 12.5 |
| | 13.9 -8.9 | 15:16 | 12.5 |
| 5400 | 14.0 -9.0 | 7400 | 12.6 -7.6 |
| | 14.1 -9.1 | | |
| | 14.1 -9.4 | | |
| | 14.5 -9.5 | | |
| | 14.5 | | |
| 5450 | 14.7 -9.7 | 7450 | |

STA-184+00

DIST SOUND

DIST SOUND

0+00 = STA-W-184+00 "1-2-3" 3/4" SOUND DUE SOUTH

3+60 14.1 -9.0 5+60 12.0 -7.9

DIST SOUND DIST SOUND

14.1 — 12.5 -7.4

0+60 3.0 +2.1 1+80 13.0 -7.9

(5.1) 14.2 -9.1 (5.1) 12.5 —

7+10 3.0 — 13.0 —

14.5 -9.4 12.7 -7.6

15:22 5.1 0.0 2+00 13.0 —

4+00 14.0 -8.9 6+00 12.8 -7.7

9.0 -3.9 13.0 —

13.8 -8.7 13.0 -7.9

(5.1) 11.5 -6.1 (5.1) 13.0 —

13.7 -8.6 13.2 -8.1

50 12.3 -7.2 13.0 —

13.7 — 13.5 -8.4

12.3 — 13.1 -8.0

13.5 -8.4 13.9 -8.8

12.2 -7.1 50 13.8 -8.7

50 13.8 -8.7 50 14.0 -8.9

12.2 — 14.5 -9.4

14.0 -8.9 14.1 -9.0

12.3 -7.2 14.6 -9.5

14.0 — 14.0 -8.9

1+00 12.3 — 14.5 -9.4

13.9 -8.8 13.2 -8.1

12.4 -7.3 15:25 14.4 -9.3

14.0 -8.9 13.0 -7.9

12.5 -7.4 3+00 14.3 -9.2

5+00 14.1 -9.0 7+00 13.0 —

12.5 — 14.2 -9.1

13.9 -8.8 12.9 -7.8

12.5 — 14.1 -9.0

14.0 -8.9 13.0 -7.9

50 12.3 -7.2 14.0 -8.9

14.0 — 12.8 -7.7

12.3 — 14.0 —

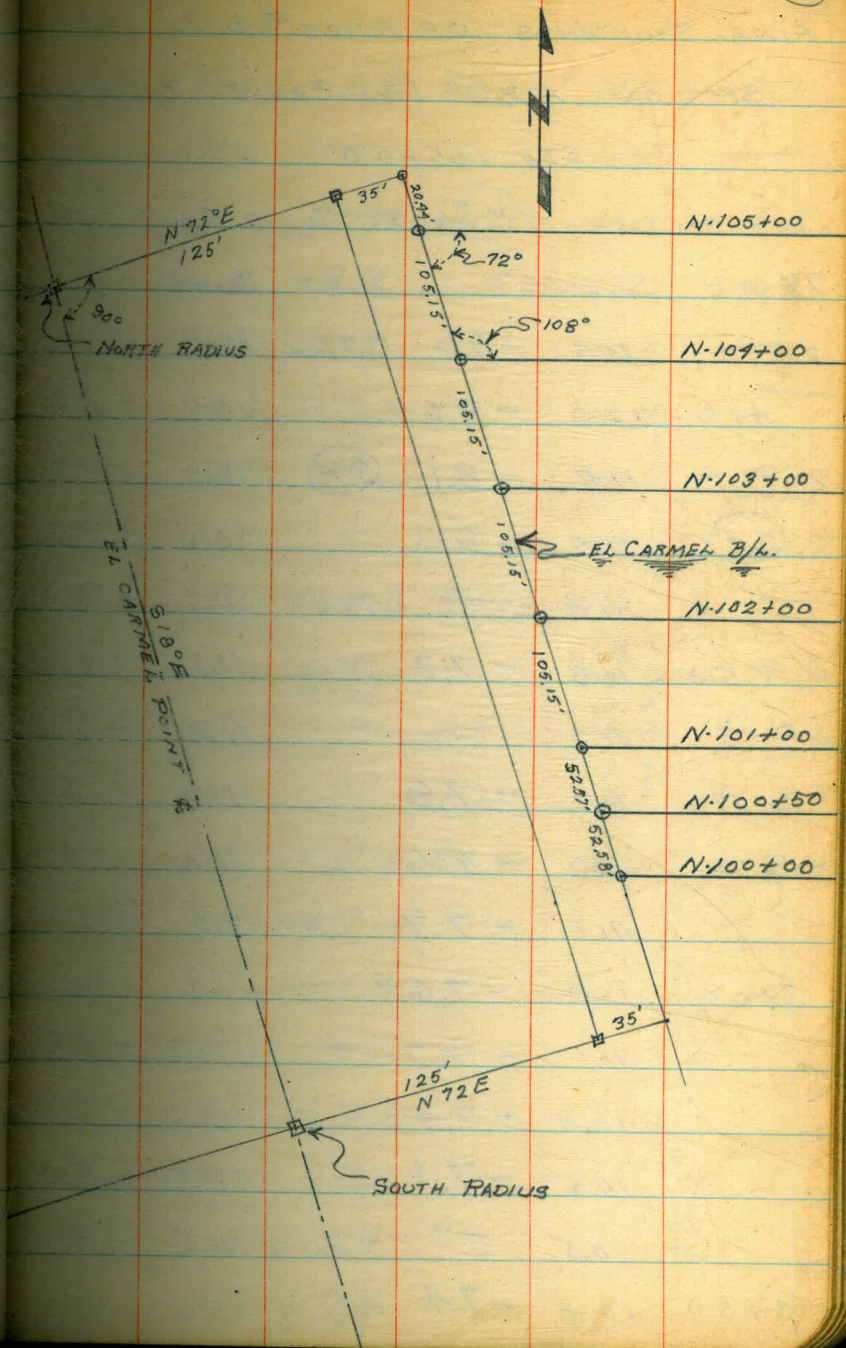
13.5 -8.4 12:29 12.5 -7.4

1+70 12.5 -7.4 3+50 14.0 —

5+50 13.0 -7.9 7+50 12.5 —

B/L FOR SOUNDING PROJ. # 9

SECTION "ABC"



FINAL SOUNDINGS OF PROJ # 9

DIST SOUND DIST SOUND

SECTION "ABC" (EL CARMEL B/L.)

5+20 11.6 -8.2 7+20 11.5 -8.1

STA-105+00

11.6 — 11.5 —

0+00 = STA-105+00 EL CARMEL B/L. SOUND EAST

(3.9) 11.6 — (3.9) 11.2 -7.8

DIST SOUND DIST SOUND 50 11.5 -8.1 50 11.3 -7.9

2+00 11.4 -8.0 3+60 10.8 -7.4 11.5 — 11.3 —

+10 12.0 -8.6 10.7 -7.3 11.3 -7.9 11.3 —

12:51 11.5 -8.1 (3.9) 10.7 — 11.3 — 11.7 -8.3

(3.9) 11.4 -8.0 10.6 -7.2 11.3 — 10.1 -6.7

11.4 — 4+00 10.7 -7.3 6+00 11.0 -7.6 8+00 10.1 —

50 11.3 -7.9 12:52 11.1 -7.1 11.0 — 8.0 -4.6

11.3 — 11.2 -7.2 11.0 — 2.8 +0.6

11.2 -7.8 11.0 -7.1 11.0 — 12:53 1.3 +2.1

11.0 -7.6 11.0 — 10.8 -7.4 8+40 1.0 +2.4

11.1 -7.7 50 10.8 -7.4 50 10.7 -7.3

3+00 11.0 -7.6 10.8 — 10.8 -7.4

11.1 -7.7 10.9 -7.5 10.8 —

10.8 -7.4 11.1 -7.7 11.2 -7.8

10.5 -7.1 11.1 -8.0 11.5 -8.1

10.5 — 5+00 11.5 -8.1 7+00 11.5 —

3+50 10.8 -7.4 5+10 11.5 — 7+10 11.0 -7.6

8-2-78

STA-104700

0700 = STA-104700 EL CARMEL B/L: SOUND EAST

| DIST | SOUND | DIST | SOUND |
|-------|-----------|-------|-----------|
| 2+00 | 11.4 -8.0 | 3+80 | 12.5 -9.1 |
| 7+10 | 11.3 -7.9 | | 12.5 — |
| 13:10 | 11.3 — | 4+00 | 12.5 — |
| | 11.2 -7.8 | | 12.5 — |
| (3.4) | 11.2 — | (3.4) | 11.8 -8.4 |
| 50 | 11.3 -7.9 | | 11.6 -8.2 |
| | 11.3 — | | 11.5 -8.1 |
| | 11.2 -7.8 | 50 | 11.5 — |
| | 11.8 -8.4 | | 11.1 -7.7 |
| | 11.7 -8.3 | | 11.1 — |
| 3+00 | 11.7 — | | 11.1 — |
| | 11.7 — | | 11.1 — |
| | 11.5 -8.1 | 5+00 | 11.3 -7.9 |
| | 11.3 -7.9 | | 11.1 -7.7 |
| | 11.4 -8.0 | | 11.1 — |
| 50 | 11.6 -8.2 | | 11.1 — |
| | 11.8 -8.4 | | 11.0 -7.6 |
| 3+70 | 12.0 -8.6 | 5+50 | 11.0 — |

STA-104700

8-2-78

(17)

| DIST | SOUND | DIST | SOUND |
|-------|-----------|-------|-----------|
| 5+60 | 11.0 -7.6 | 7+60 | 12.0 -8.6 |
| | 10.5 -7.1 | | 12.0 — |
| (3.4) | 10.0 -6.6 | (3.4) | 11.8 -8.4 |
| | 10.0 — | | 11.8 — |
| 6+00 | 9.8 -6.4 | 8+00 | 11.9 -8.5 |
| | 10.0 -6.6 | | 12.0 -8.6 |
| | 10.0 — | | 12.1 -8.7 |
| | 10.3 -6.9 | | 12.1 — |
| | 11.0 -7.6 | | 12.1 — |
| 50 | 11.0 — | 50 | 12.2 -8.8 |
| | 11.2 -7.8 | | 12.4 -9.0 |
| | 11.6 -8.2 | | 12.4 — |
| | 11.6 — | | 12.4 — |
| | 11.6 — | | 12.2 -8.8 |
| 7+00 | 11.7 -8.3 | 9+00 | 12.0 -8.6 |
| | 11.9 -8.5 | | 12.0 — |
| | 12.0 -8.6 | | 12.0 — |
| | 12.0 — | | 11.9 -8.5 |
| 13:15 | 12.0 — | 13:18 | 11.8 -8.4 |
| 7+50 | 12.0 — | 9+50 | 11.7 -8.3 |

STA-104+00

8-2-78

| DIST | SOUND | DIST | SOUND |
|-----------------|----------------|------|-------|
| 9+60 | 11.5 | -8.1 | |
| | 11.4 | -8.0 | |
| (3.4) | 11.2 | -7.8 | |
| | 11.5 | -8.1 | |
| 10+00 | 11.5 | — | |
| | 11.5 | — | |
| | 11.4 | -8.0 | |
| | 11.0 | -7.6 | |
| | 10.0 | -6.6 | |
| | 7.0 | | |
| 50 | 3.0 | -3.6 | |
| | 5.0 | -1.6 | |
| | 1.5 | +1.9 | |
| | 0.5 | +2.9 | |

STA-103+00

(18)

6+00 = STA-103+00 EL CARMEL B/L: SOUND EAST

| DIST | SOUND | DIST | SOUND |
|-------|-------|------|-----------------|
| 2+00 | 11.5 | -8.2 | 3+80 11.9 -8.6 |
| 4+10 | 11.7 | -8.4 | 11.9 — |
| 13:34 | 11.8 | -8.5 | 4+00 11.9 — |
| (3.3) | 11.8 | — | (3.3) 12.3 -9.0 |
| | 11.9 | -8.6 | 12.6 -9.3 |
| 50 | 11.7 | -8.4 | 12.5 -9.2 |
| | 11.5 | -8.2 | 12.1 -8.8 |
| | 11.9 | -8.6 | 50 12.1 — |
| | 12.0 | -8.7 | 12.0 -8.7 |
| | 11.8 | -8.5 | 12.0 — |
| 3+00 | 11.8 | — | 12.0 — |
| | 11.7 | -8.4 | 12.0 — |
| | 11.5 | -8.2 | 5+00 12.0 — |
| | 11.5 | — | 12.5 -9.2 |
| | 11.7 | -8.4 | 12.1 -8.8 |
| 50 | 11.8 | -8.5 | 12.0 -8.7 |
| | 11.9 | -8.6 | 12.0 — |
| 3+70 | 11.9 | — | 5+50 12.0 — |

STA-103+00 8-2-18

| DIST | SOUND | DIST | SOUND |
|-----------------|-----------|-------|-----------|
| 5+60 | 12.0 -8.7 | 7+60 | 11.9 -8.1 |
| | 12.0 — | | 11.8 -8.5 |
| (3.3) | 11.8 -8.5 | (3.3) | 12.0 -8.7 |
| | 11.8 — | 13:40 | 12.0 — |
| 6+00 | 11.7 -8.4 | 8+00 | 12.0 — |
| | 11.7 — | | 12.0 — |
| 13:38 | 12.0 -8.7 | | 12.0 — |
| | 12.5 -9.2 | | 12.0 — |
| | 12.5 — | | 12.0 — |
| 50 | 12.6 -9.3 | 50 | 12.0 — |
| | 12.7 -9.1 | | 12.0 — |
| | 11.5 -8.2 | | 12.1 -8.8 |
| | 11.2 -7.9 | | 12.0 -8.7 |
| | 11.2 — | | 12.0 — |
| 7+00 | 11.9 -8.1 | 9+00 | 12.0 — |
| | 11.2 -7.9 | | 12.0 — |
| | 11.2 — | | 11.7 -8.4 |
| | 11.5 -8.2 | | 11.5 -8.2 |
| | 11.2 -7.9 | | 11.2 -7.9 |
| 7+50 | 11.3 -8.0 | 9+50 | 11.5 -8.2 |

STA-103+00 8-2-18 (19)

| DIST | SOUND | DIST | SOUND |
|-------|-----------|------|-------|
| 9+60 | 11.7 -8.4 | | |
| | 11.8 -8.5 | | |
| (3.3) | 11.8 — | | |
| | 11.8 — | | |
| 10+00 | 12.0 -8.7 | | |
| | 12.0 — | | |
| | 11.9 -8.6 | | |
| | 11.9 — | | |
| | 11.9 — | | |
| 50 | 11.9 — | | |
| | 11.9 — | | |
| | 11.9 — | | |
| | 11.5 -8.2 | | |
| 13:45 | 11.5 — | | |
| 11+00 | 11.5 — | | |

8-2-78

STA-102+00

8-2-78

(20)

| PX | | | STA-102+00 | | | STA-102+00 | | | STA-102+00 | | |
|---|-------|------|------------|-------|------|------------|-------|------|-----------------|-------|-------|
| 0+00=STA-102+00 EL CARMEL B/L: SOUND EAST | | | SOUND EAST | | | DIST SOUND | | | DIST SOUND | | |
| DIST | SOUND | | DIST | SOUND | | DIST | SOUND | | DIST | SOUND | |
| | | | | | | 5+60 | 11.2 | -7.9 | 7+60 | 12.1 | -8.8 |
| | | | | | | | 11.2 | — | | 12.3 | -9.0 |
| 2+00 | 11.8 | -8.5 | 3+80 | 11.8 | -8.5 | (3.3) | 11.8 | -8.5 | (3.3) | 11.8 | -8.5 |
| 4+10 | 11.9 | -8.6 | | 11.8 | — | | 12.0 | -8.7 | | 11.8 | — |
| 13:55 | 12.0 | -8.7 | 4+00 | 11.6 | -8.3 | 6+00 | 12.9 | -9.6 | 8+00 | 12.1 | -8.8 |
| | 12.0 | — | | 11.2 | -7.9 | | 12.7 | -9.4 | | 12.5 | -9.2 |
| (3.3) | 12.3 | -9.0 | (3.3) | 11.2 | — | | 12.5 | -9.2 | | 12.5 | — |
| 50 | 12.5 | -9.2 | | 11.6 | -8.3 | | 12.4 | -9.1 | | 12.4 | -9.1 |
| | 11.8 | -8.5 | | 11.6 | — | | 12.0 | -8.7 | | 12.2 | -8.9 |
| | 11.7 | -8.4 | 50 | 11.6 | — | 50 | 12.0 | — | 50 | 12.2 | — |
| | 11.9 | -8.1 | | 11.5 | -8.2 | | 12.0 | — | | 12.1 | -8.8 |
| | 11.7 | -8.4 | | 11.5 | — | | 11.9 | -8.6 | | 12.3 | -9.0 |
| 3+00 | 11.2 | -7.9 | | 11.4 | -8.1 | | 11.8 | -8.5 | | 12.2 | -8.9 |
| | 11.4 | -8.1 | | 11.3 | -8.0 | | 12.0 | -8.7 | | 12.2 | — |
| | 11.8 | -8.5 | 5+00 | 11.2 | -7.9 | 7+00 | 12.0 | — | 9+00 | 12.7 | -9.4 |
| | 12.0 | -8.7 | | 11.1 | -7.8 | 14:01 | 12.0 | — | | 13.0 | -9.7 |
| | 12.1 | -8.8 | | 11.0 | -7.7 | | 12.0 | — | | 13.0 | — |
| 50 | 12.4 | -9.1 | | 11.0 | — | | 11.7 | -8.4 | | 13.1 | -9.8 |
| | 12.0 | -8.7 | | 11.3 | -8.0 | | 11.7 | — | | 13.3 | -10.0 |
| 3+70 | 11.8 | -8.5 | 5+50 | 11.0 | -7.7 | 50 | 11.8 | -8.5 | 9+50 | 13.2 | -9.9 |
| | | | | | | | | | | 13.5 | -10.2 |

STA-102+00

8-2-98

| DIST | SOUND | DIST | SOUND |
|--------------|-------|------|-------|
| 9+70 | 13.0 | -9.7 | |
| (3.3) | 11.8 | -8.5 | |
| <u>14:05</u> | 11.8 | — | |
| 10+00 | 11.7 | -8.4 | |

840

STA-101+00

8-2-98

| STA-101+00 EL CARMEL B/L: SOUND | | EAST | |
|---------------------------------|-------|------|-----------------|
| DIST | SOUND | DIST | SOUND |
| 2+00 | 11.5 | -8.2 | 3+90 11.1 - 7.8 |
| 110 | 11.7 | -8.4 | 4+00 11.2 - 7.9 |
| (3.3) | 11.9 | -8.6 | (3.3) 11.2 — |
| | 11.9 | — | 11.4 - 8.1 |
| | 11.7 | -8.4 | 12.0 - 8.7 |
| 50 | 11.4 | -8.1 | 12.0 — |
| | 11.3 | -8.0 | 50 12.0 — |
| | 11.2 | -7.9 | 12.4 - 9.1 |
| | 11.5 | -8.2 | 12.4 — |
| | 11.4 | -8.1 | 12.2 - 8.9 |
| 3+00 | 11.3 | -8.0 | 12.4 - 9.1 |
| 14:11 | 12.1 | -8.8 | 5+00 12.7 - 9.4 |
| | 11.7 | -8.4 | 13.0 - 9.7 |
| | 11.2 | -7.9 | 13.0 — |
| | 11.8 | -8.5 | 12.6 - 9.3 |
| 50 | 11.6 | -8.3 | 12.9 - 9.6 |
| | 11.3 | -8.0 | 50 12.8 - 9.5 |
| | 11.8 | -8.5 | 12.5 - 9.2 |
| 3+80 | 11.6 | -8.3 | 5+70 12.4 - 9.1 |

STA-101+00

8-2-46

STA-100+50

8-2-48

(22)

DIST SOUND DIST SOUND

0+00=STA-100+50 EL CARMEL Bk: SOUND EAST

| | | | | | |
|-----------------|-----------------|------|-------|------|------|
| 5+80 | 12.0 | -8.7 | 7+80 | 12.0 | -8.7 |
| | 11.1 | | | | |
| | 12.1 | -7.8 | | 12.0 | |
| | 11.1 | | | | |
| 6+00 | 12 | | 8+00 | 12.0 | |
| (3.3) | 11.2 | -7.9 | (3.3) | 11.8 | -8.5 |
| | 11.2 | | | 11.8 | |
| | 12.0 | -8.7 | | 11.8 | |
| | 11.7 | -8.4 | | 11.9 | -8.6 |
| 50 | 12.0 | -8.7 | 50 | 11.9 | |
| | 11.6 | -8.3 | | 11.9 | |
| | 11.5 | -8.2 | | 11.9 | |
| | 11.5 | | | 11.6 | -8.3 |
| | 11.5 | | | 11.8 | -8.5 |
| 7+00 | 11.5 | | 9+00 | 11.8 | |
| | 11.5 | | | 11.8 | |
| | 11.3 | -8.0 | | 12.0 | -8.7 |
| | 11.5 | -8.2 | | 11.8 | -8.5 |
| | 12.2 | -8.9 | | 11.7 | -8.4 |
| 50 | 12.2 | | 50 | 11.8 | -8.5 |
| | 12.0 | -8.7 | 14:21 | 11.9 | -8.6 |
| 7+70 | 12.0 | | 9+70 | 12.0 | -8.7 |

| DIST | SOUND | DIST | SOUND |
|-------|-----------|-------|-----------|
| 2+00 | 12.0 -8.7 | 3+90 | 10.8 -7.5 |
| 4+10 | 11.5 -8.2 | 4+00 | 10.7 -7.4 |
| 14:32 | 11.5 | | 10.9 -7.6 |
| (3.3) | 11.3 -8.0 | (3.3) | 11.8 -8.5 |
| | 11.3 | | 12.5 -9.2 |
| 50 | 11.3 | | 12.5 |
| | 11.2 -7.9 | 50 | 13.0 -9.7 |
| | 11.1 -7.8 | | 12.9 -9.6 |
| | 10.5 -7.2 | | 12.7 -9.4 |
| | 10.4 -7.1 | | 12.9 -9.6 |
| 3+00 | 11.1 -7.8 | | 12.9 |
| | 11.1 | 5+00 | 12.9 |
| | 10.8 -7.5 | | 13.0 -9.7 |
| | 10.5 -7.2 | | 13.0 |
| | 10.5 | | 13.0 |
| 50 | 10.5 | | 12.5 -9.2 |
| | 10.5 | 50 | 12.2 -8.9 |
| | 11.0 -7.7 | | 12.5 -9.2 |
| 3+80 | 10.8 -7.5 | 5+70 | 12.5 |

8-2-98

(23)

STA-100+50

| DIST | SOUND | | DIST | SOUND | |
|-----------------|-------|-------|--------------|-------|-------|
| 5+80 | 12.4 | -9.1 | 7+80 | 12.0 | -8.7 |
| | 12.3 | -9.0 | | 12.0 | — |
| 6+00 | 12.2 | -8.9 | 8+00 | 11.9 | -8.6 |
| (3.3) | 12.0 | -8.7 | (3.3) | 11.9 | — |
| | 12.6 | -9.3 | | 11.8 | -8.5 |
| | 14.0 | -10.7 | | 11.5 | -8.2 |
| | 13.6 | -10.3 | | 11.8 | -8.5 |
| 50 | 13.5 | -10.2 | 50 | 11.6 | -8.3 |
| | 13.1 | -9.8 | | 11.6 | — |
| | 13.3 | -10.0 | | 11.8 | -8.5 |
| | 13.2 | -9.9 | | 12.1 | -8.8 |
| | 13.0 | -9.7 | | 12.3 | -9.0 |
| 7+00 | 13.5 | -10.2 | 9+00 | 12.0 | -8.7 |
| | 13.3 | -10.0 | | 12.3 | -9.0 |
| | 12.4 | -9.1 | | 12.5 | -9.2 |
| | 12.4 | — | | 12.8 | -9.5 |
| | 12.0 | -8.7 | | 13.0 | -9.7 |
| 50 | 12.7 | -9.4 | 50 | 13.4 | -10.1 |
| <u>14:37</u> | 12.1 | -8.8 | <u>14:39</u> | 13.3 | -10.0 |
| 7+70 | 12.0 | -8.7 | 9+70 | 12.8 | -9.5 |

8-9-48

8-9-48.

(29)

FINAL X-SECTIONS PROJ # 9

W/SHORE B/L. (SLOPES)

DX

STA-120+00

0+00 = STA-120+00 W/SHORE B/L: SECT DUE EAST.

| STA. | T | H.I. | - | ELEV |
|--------|------|-------|------|------|
| T.B.M | 4.76 | 13.17 | | 8.41 |
| W 0+02 | | | 5.0 | 8.2 |
| 0+00 | | | 5.0 | 8.2 |
| E 0+40 | | | 4.6 | 8.6 |
| E 0+65 | | | 4.8 | 8.1 |
| E 0+85 | | | 6.2 | 7.0 |
| E 1+05 | | | 8.6 | 1.6 |
| E 1+20 | | | 9.5 | 3.3 |
| E 1+28 | | | 10.7 | 2.5 |

Sta. 121+00

W/shore B/L.

DX

0+00: Sta 121+00 W/shore B/L Sect Due East

| Sta | T | H.I. | - | Elev |
|-------|------|-------|------|------|
| T.B.M | 4.39 | 12.80 | | 8.41 |
| | | | 4.4 | 8.4 |
| | | | 4.4 | 8.1 |
| | | | 4.4 | 8.1 |
| | | | 4.6 | 8.2 |
| | | | 5.6 | 7.2 |
| | | | 7.3 | 5.5 |
| | | | 8.5 | 1.3 |
| | | | 10.2 | 2.6 |

STA -121+00
W/O F STA -
WEST SHORE B/L

EDGE OF WALK

8-9-48

STA-122+00

0+00 = STA-122+00 W/S HORE B/L: SECT. DUE EAST

| STA | + | H.I. | - | ELEV |
|--------|---|-------|------|------|
| | | 12.80 | | |
| 0+00 | | | | 8.3 |
| E-0+01 | | | 4.7 | 8.1 |
| E-0+28 | | | 4.7 | 8.1 |
| E-0+63 | | | 5.1 | 7.7 |
| E-0+76 | | | 5.5 | 7.3 |
| E-1+00 | | | 7.4 | 5.4 |
| E-1+15 | | | 8.9 | 3.9 |
| E-1+33 | | | 10.1 | 2.7 |

8-9-48

(25)

STA-123+00

0+00 = STA-N-123+00 W/S HORE B/L: SECT. DUE EAST

| STA | + | H.I. | - | ELEV |
|--------|---|-------|------|------|
| 0+00 | | 12.80 | | 8.4 |
| E-0+03 | | | 4.5 | 8.3 |
| E-0+32 | | | 4.9 | 7.9 |
| E-0+71 | | | 5.1 | 7.7 |
| E-0+88 | | | 6.0 | 6.8 |
| E-1+00 | | | 6.9 | 5.9 |
| E-1+18 | | | 8.1 | 4.7 |
| E-1+37 | | | 9.7 | 3.1 |
| E-1+64 | | | 10.1 | 2.7 |

PX
STA-124+00

0+00=STA-N-124+00 W/SLOPE B/LI. SECT. DUE EAST

| STA- | + | H.I. | - | ELEV |
|--------|---|-------|-----|------|
| 0+00 | | 12.80 | | 8.4 |
| E-0+03 | | | 4.4 | 8.4 |
| E-0+24 | | | 4.8 | 8.0 |
| E-0+63 | | | 4.5 | 8.3 |
| E-0+88 | | | 4.6 | 8.2 |
| E-1+00 | | | 4.4 | 8.4 |
| E-1+17 | | | 5.2 | 7.6 |
| E-1+34 | | | 7.1 | 5.7 |
| E-1+51 | | | 8.8 | 4.0 |
| E-1+62 | | | 9.9 | 2.9 |

PX
STA-125+00

0+00=STA-N-125+00 W/SLOPE B/LI. SECT. DUE EAST

| STA- | + | H.I. | - | ELEV |
|--------|---|-------|-----|------|
| 0+00 | | 12.80 | | 8.4 |
| E-0+23 | | | 4.5 | 8.3 |
| E-0+34 | | | 4.5 | 8.3 |
| E-0+61 | | | 4.5 | 8.3 |
| E-0+80 | | | 6.2 | 6.6 |
| E-1+00 | | | 2.7 | 5.1 |
| E-1+12 | | | 8.1 | 4.7 |
| E-1+43 | | | 7.6 | 5.2 |
| E-1+69 | | | 9.9 | 2.9 |

8-9-18

STA-126+00

0+00=STA-N-126+00 W/SLOPE B/L: SECT. DUE EAST

| STA- | + | H.I. | - | ELEV |
|--------|------|-------|-----|------|
| 0+00 | | | | 8.5 |
| T.B.M | 4.12 | 12.89 | | 8.97 |
| E-0+03 | | | 4.5 | 8.4 |
| E-0+30 | | | 4.5 | 8.1 |
| E-0+58 | | | 4.5 | 8.1 |
| E-0+74 | | | 5.7 | 7.2 |
| E-0+87 | | | 6.9 | 6.0 |
| E-1+00 | | | 8.3 | 4.6 |
| E-1+15 | | | 9.8 | 3.1 |

STA-127+00

0+00=STA-N-127+00 W/SLOPE B/L: SECT. DUE EAST

| STA- | + | H.I. | - | ELEV |
|--------|-------|------|------|------|
| 0+00 | | | | 8.4 |
| E-0+03 | 12.89 | | 4.7 | 8.2 |
| E-0+19 | | | 4.8 | 8.1 |
| E-0+56 | | | 4.5 | 8.4 |
| E-0+78 | | | 6.1 | 6.8 |
| E-0+96 | | | 8.0 | 4.9 |
| E-1+00 | | | 8.4 | 4.5 |
| E-1+18 | | | 10.1 | 2.8 |

STA-128+00

8-9-18

(27)

0+00=STA-N-128+00 W/SLOPE B/L: SECT. DUE EAST

| STA- | + | H.I. | - | ELEV |
|--------|-------|------|-----|------|
| 0+00 | | | | 8.9 |
| E-0+03 | 12.89 | | 4.8 | 8.1 |
| E-0+32 | | | 4.7 | 8.2 |
| E-0+59 | | | 5.5 | 7.9 |
| E-0+81 | | | 7.5 | 5.1 |
| E-1+00 | | | 9.1 | 3.8 |
| E-1+09 | | | 9.8 | 3.1 |

STA-129+00

0+00=STA-N-129+00 W/SLOPE B/L: SECT. DUE EAST

| STA- | + | H.I. | - | ELEV |
|--------|-------|------|-----|------|
| 0+00 | 12.89 | | | 8.4 |
| E-0+03 | | | 4.9 | 8.0 |
| E-0+27 | | | 5.0 | 7.9 |
| E-0+49 | | | 5.4 | 7.5 |
| E-0+68 | | | 7.1 | 5.8 |
| E-0+99 | | | 9.8 | 3.1 |

STA-130+00

0+00=STA-N-130+00 W/SHOPE B/L: SECT. DUE EAST

| STA- | T | H.I. | - | ELEV |
|-------------------------|------|-------|---|------|
| T.B.M | 4.45 | 12.87 | | 8.42 |
| 0+00 | | | | 8.1 |
| E.0+02 | | 4.8 | | 8.1 |
| E.0+37 | | 4.7 | | 8.2 |
| ⁵⁷ E.0+87 | | 6.2 | | 6.7 |
| E.0+72 | | 7.7 | | 5.2 |
| E.0+92 | | 9.5 | | 3.4 |

STA-131+00

0+00=STA-N-131+00 W/SHOPE B/L: SECT DUE EAST

| STA- | T | H.I. | - | ELEV |
|-------------------------|---|-------|-----|------|
| W.0+06 | | 12.87 | 4.9 | 8.0 |
| 0+00 | | | 4.9 | 8.0 |
| ³⁴ E.0+40 | | | 5.0 | 7.9 |
| ⁴⁴ E.0+52 | | | 5.4 | 7.5 |
| E.0+65 | | | 7.4 | 5.5 |
| E.0+87 | | | 9.4 | 3.5 |

STA-132+00 8-9-48

0+00=STA-N-132+00 W/SHOPE B/L: SECT. DUE EAST

| STA- | T | H.I. | - | ELEV |
|--------|---|-------|-----------------------|------|
| W.0+04 | | 12.87 | 5.0 | 7.9 |
| 0+00 | | | 4.9 | 8.0 |
| E.0+14 | | | 5.2 | 7.7 |
| E.0+26 | | | 6.2 | 6.7 |
| E.0+38 | | | 7.3 6.5 | 5.6 |
| E.0+51 | | | 8.4 | 4.5 |
| E.0+65 | | | 9.3 | 3.6 |

[^{NORTH}
PROFILES ALONG B/L: (TOLLON TO SAN RAFAEL)]

0+00=STA-132+00 WEST/SHOPE B/L

| | | | | |
|-------|--|-------|-----|-----|
| 0+00 | | 12.87 | 4.9 | 8.0 |
| NO+16 | | | 5.7 | 7.2 |
| NO+35 | | | 6.6 | 6.3 |

(28)

ORIGINAL

8-9-18

8-9-18

(29)

SOUNDINGS OF PROJ #9 NORTH OF

STA-179+00

"1-2-3" B/L: "NORTH ADDITION"

0+00=STA-W-179+00 "1-2-3" B/L: SOUND DUE NORTH.

PX
STA-W-180+00

DIST SOUND DIST SOUND

0+00=STA-W-180+00 "1-2-3" B/L: SOUND DUE NORTH.

0+00 2.7 +2.4 1+60 2.4 +2.7

DIST SOUND DIST SOUND

+10 2.7 — 2.4 —

0+00 2.3 +2.7 1+60 3.3 +1.7

(5.1) 3.0 +2.1 (5.1) 2.4 —

+10 2.3 — 3.4 +1.6

12:02 3.0 — 2.4 —

12:55

2.3 — (5.0) 3.3 +1.7

3.2 +1.9 2+00 2.4 —

(5.0) 2.3 — 3.3 —

50 3.2 —

2.3 — 2+00 3.0 +2.0

3.3 +1.8

50 2.4 +2.6

3.3 —

2.4 —

3.3 —

2.4 —

3.3 —

2.5 +2.5

1+00 3.3 —

2.4 +2.6

3.3 —

1+00 2.4 —

3.2 +1.9

2.4 —

3.0 +2.1

2.3 +2.7

2.8 +2.3

2.7 +2.3

50 2.5 +2.6

3.1 +1.9

1+50 3.3 +1.7

STA-178+00

PX
0+00=STA-W-178+00 1'-2-3" B/Li. SOUND DUE NORTH.

| DIST | SOUND | | DIST | SOUND | |
|-------|-------|------|-------|-------|------|
| 0+00 | 2.7 | +2.4 | 1+60 | 2.3 | +2.8 |
| +10 | 2.4 | — | | 2.3 | — |
| 13:06 | 2.1 | +3.0 | (5.1) | 2.5 | +2.6 |
| (5.1) | 2.1 | — | | 2.5 | — |
| | 2.1 | — | 2+00 | 2.4 | +2.7 |
| 50 | 2.2 | +2.9 | | | |
| | 2.2 | — | | | |
| | 2.2 | — | | | |
| | 2.2 | — | | | |
| | 2.2 | — | | | |
| 1+00 | 2.2 | — | | | |
| | 2.2 | — | | | |
| | 2.2 | — | | | |
| | 2.1 | +3.0 | | | |
| | 2.2 | +2.9 | | | |
| 50 | 2.2 | — | | | |

STA-177+00

PX
0+00=STA-W-177+00 1'-2-3" B/Li. SOUND DUE NORTH

| STA | SOUND | | DIST | SOUND | |
|-------|-------|------|-------|-------|------|
| 0+00 | 2.0 | +3.2 | 1+60 | 2.4 | +2.8 |
| +10 | 2.0 | — | | 2.5 | +2.7 |
| | 2.1 | +3.1 | (5.2) | 2.5 | — |
| 13:12 | 2.0 | +3.2 | | 2.6 | +2.6 |
| (5.2) | 2.0 | — | 2+00 | 2.6 | — |
| 50 | 2.0 | — | | | |
| | 2.2 | +3.0 | | | |
| | 2.2 | — | | | |
| | 2.2 | — | | | |
| | 2.2 | — | | | |
| 1+00 | 2.2 | — | | | |
| | 2.2 | — | | | |
| | 2.2 | — | | | |
| | 2.3 | +2.9 | | | |
| | 2.3 | — | | | |
| 50 | 2.4 | +2.8 | | | |

PX

STA-176+00

0+00=STA-W-176+00 "1-2-3" B/L: SOUND DUE NORTH.

| DIST | SOUND | | DIST | SOUND | |
|-------|-------|------|-------|-------|------|
| 0+00 | 2.5 | +2.7 | 1+60 | 2.6 | — |
| +10 | 2.4 | +2.8 | | 2.7 | +2.5 |
| | 2.4 | — | (5.2) | 2.8 | +2.4 |
| 13:18 | 2.4 | — | | 2.8 | — |
| (5.2) | 2.4 | — | 2+00 | 2.8 | — |
| 50 | 2.4 | — | | | |
| | 2.4 | — | | | |
| | 2.4 | — | | | |
| | 2.5 | +2.7 | | | |
| | 2.5 | — | | | |
| 1+00 | 2.5 | — | | | |
| | 2.5 | — | | | |
| | 2.5 | — | | | |
| | 2.6 | +2.6 | | | |
| | 2.6 | — | | | |
| 50 | 2.6 | — | | | |

STA-175+00

PX

0+00=STA-W-175+00 "1-2-3" B/L: SOUND DUE NORTH.

| DIST | SOUND | | DIST | SOUND | |
|-------|-------|------|-------|-------|------|
| 0+00 | 2.7 | +2.5 | 1+60 | 2.9 | +2.3 |
| +10 | 2.6 | +2.6 | | 3.0 | +2.2 |
| | 2.6 | — | (5.2) | 3.0 | — |
| 2:20 | 2.6 | — | | 3.0 | — |
| (5.2) | 2.6 | — | 2+00 | 3.0 | — |
| 50 | 2.6 | — | | | |
| | 2.7 | +2.5 | | | |
| | 2.7 | — | | | |
| | 2.7 | — | | | |
| | 2.7 | — | | | |
| 1+00 | 2.7 | — | | | |
| | 2.7 | — | | | |
| | 2.7 | — | | | |
| | 2.8 | +2.4 | | | |
| | 2.9 | +2.3 | | | |
| 50 | 2.9 | — | | | |

SEE NEXT
PAGE

Px

STA-174+00

0+00=STA-W-174+00 "1-23" B/L: SOUND DUE NORTH

| DIST | SOUND | | DIST | SOUND | |
|-------|-------|------|-------|-------|------|
| 0+00 | 2.8 | 2.5 | 1+60 | 3.0 | +2.3 |
| 10 | 2.8 | — | | 3.0 | — |
| 13:31 | 2.8 | — | (5.3) | 3.0 | — |
| (5.3) | 2.8 | — | | 3.0 | — |
| | 2.8 | — | 2+00 | 3.0 | — |
| 50 | 2.8 | — | | | |
| | 2.8 | — | | | |
| | 2.8 | — | | | |
| | 2.8 | — | | | |
| | 2.8 | — | | | |
| 1700 | 2.8 | — | | | |
| | 2.9 | +2.4 | | | |
| | 2.9 | — | | | |
| | 2.9 | — | | | |
| | 3.0 | +2.3 | | | |
| 50 | 3.0 | — | | | |

STA-173+00

Px

0+00=STA-W-173+00 "1-23" B/L: SOUND DUE NORTH

| DIST | SOUND | | DIST | SOUND | |
|-------|-------|------|-------|-------|------|
| 0+00 | 3.0 | +2.4 | 1+60 | 2.9 | +2.5 |
| 10 | 3.0 | — | | 2.9 | — |
| 13:40 | 3.0 | — | | 2.9 | — |
| | 2.9 | +2.5 | (5.4) | 3.0 | +2.4 |
| (5.4) | 2.7 | +2.7 | 2+00 | 3.0 | — |
| 50 | 2.7 | — | | | |
| | 2.6 | +2.8 | | | |
| | 2.7 | +2.7 | | | |
| | 2.7 | — | | | |
| | 2.7 | — | | | |
| 1700 | 2.8 | +2.6 | | | |
| | 2.9 | +2.5 | | | |
| | 2.9 | — | | | |
| | 2.9 | — | | | |
| | 2.9 | — | | | |
| 50 | 2.9 | — | | | |

STA-172+00

0+00 = STA-172+00 "1-2-3" 8/4: SOUND DUE NORTH

| DIST | SOUND | | DIST | SOUND | |
|-------|-------|------|-------|-------|------|
| 0+00 | 2.9 | +2.6 | 1+60 | 3.1 | +2.4 |
| +10 | 2.9 | — | | 3.1 | — |
| 10:52 | 2.8 | +2.7 | (5.5) | 3.0 | +2.5 |
| | 2.7 | +2.8 | | 3.0 | — |
| (5.5) | 2.7 | — | 2+00 | 3.0 | — |
| 50 | 2.9 | — | | | |
| | 2.7 | — | | | |
| | 2.7 | — | | | |
| | 2.7 | — | | | |
| | 2.7 | — | | | |
| 1+00 | 2.9 | +2.6 | | | |
| | 3.0 | +2.5 | | | |
| | 3.2 | +2.3 | | | |
| | 3.5 | +2.0 | | | |
| | 3.8 | +1.7 | | | |
| 50 | 3.2 | +2.3 | | | |

(39)

STA-181+00

0+00 = STA-181+00 "1-2-3" 8/4: SOUND DUE NORTH

| DIST | SOUND | | DIST | SOUND | |
|-------|-------|------|-------|-------|------|
| 0+00 | 3.1 | +2.5 | 1+60 | 3.2 | +2.4 |
| +10 | 3.1 | — | | 3.3 | +2.3 |
| 14:25 | 3.1 | — | (5.6) | 3.5 | +2.1 |
| | 3.1 | — | | 3.6 | +2.0 |
| (5.6) | 3.1 | — | 2+00 | 3.6 | — |
| 50 | 3.1 | — | | | |
| | 3.1 | — | | | |
| | 3.1 | — | | | |
| | 3.1 | — | | | |
| | 3.1 | — | | | |
| 1+00 | 3.2 | +2.4 | | | |
| | 3.1 | +2.5 | | | |
| | 3.1 | — | | | |
| | 3.2 | +2.4 | | | |
| | 3.2 | — | | | |
| 50 | 3.2 | — | | | |

PX

EX STA-182+00

0+00=STA-W-182+00 "1-2-3" B/L; SOUND DUE NORTH

| DIST | SOUND | | DIST | SOUND |
|-------|-------|------|-------|-------|
| 0+00 | 2.9 | +2.7 | 1+60 | 3.2 |
| +10 | 3.0 | +2.6 | | 3.2 |
| 1+30 | 3.0 | — | (5.6) | 3.2 |
| | 3.1 | +2.5 | | 3.2 |
| (5.6) | 3.2 | +2.4 | 2+00 | 3.2 |
| 50 | 3.2 | — | | |
| | 3.2 | — | | |
| | 3.3 | +2.3 | | |
| | 3.3 | — | | |
| | 3.3 | — | | |
| 1+00 | 3.3 | — | | |
| | 3.3 | — | | |
| | 3.3 | — | | |
| | 3.3 | — | | |
| | 3.2 | +2.4 | | |
| 50 | 3.2 | — | | |

PX

EX STA-183+00

0+00=STA-W-183+00 "1-2-3" B/L; SOUND DUE NORTH

| DIST | SOUND | | DIST | SOUND |
|-------|-------|------|-------|-------|
| 0+00 | 3.1 | +2.5 | 1+60 | 3.4 |
| +10 | 3.1 | — | | 3.5 |
| 1+25 | 3.1 | — | (5.6) | 3.4 |
| | 3.1 | — | | 3.4 |
| (5.6) | 3.2 | +2.4 | 2+00 | 3.4 |
| 50 | 3.3 | +2.3 | | |
| | 3.3 | — | | |
| | 3.3 | — | | |
| | 3.4 | +2.2 | | |
| | 3.4 | — | | |
| 1+20 | 3.4 | — | | |
| | 3.4 | — | | |
| | 3.3 | +2.3 | | |
| | 3.3 | — | | |
| | 3.3 | — | | |
| 50 | 3.5 | — | | |

~~EX~~ STA-184+00

0+00=STA-W-184+00 "1-2-3" 3/4: SOUND DUE NORTH

| DIST | | SOUND | | DIST | | SOUND | |
|--------------|-----|-------|-------|------|------|-------|--|
| 0+00 | 3.3 | +2.3 | 1+60 | 3.5 | +2.1 | | |
| +10 | 3.1 | +2.5 | | 3.5 | — | | |
| | 3.1 | — | (5.6) | 3.5 | — | | |
| <u>14:40</u> | 3.1 | — | | 3.5 | — | | |
| (5.6) | 3.1 | — | 2+00 | 3.5 | — | | |
| 50 | 3.1 | — | | 3.5 | — | | |
| | 3.5 | +2.1 | | 3.5 | — | | |
| | 3.4 | +2.2 | | 3.5 | — | | |
| | 3.4 | — | | 3.5 | — | | |
| | 3.4 | — | 50 | 3.5 | — | | |
| 1+00 | 3.4 | — | | 3.5 | — | | |
| | 3.5 | +2.1 | | 3.5 | — | | |
| | 3.5 | — | | 3.5 | — | | |
| | 3.5 | — | | 3.5 | — | | |
| | 3.5 | — | 3+00 | 3.9 | +1.7 | | |
| 50 | 3.5 | — | | 3.8 | +1.8 | | |
| | | | | 4.0 | +1.6 | | |
| | | | | 4.0 | — | | |
| | | | | 4.0 | — | | |
| | | | 3+50 | 4.0 | — | | |

STA-184+00 8-9-18

(36)

| DIST | | SOUND | | DIST | | SOUND | |
|-------|------|-------|--|------|--|-------|--|
| 3+60 | 4.0 | +1.6 | | | | | |
| | 4.0 | — | | | | | |
| | 7.2 | -1.6 | | | | | |
| (5.6) | 12.7 | -7.1 | | | | | |
| 4+00 | 13.7 | -8.1 | | | | | |
| | 13.7 | — | | | | | |
| | 14.0 | -8.4 | | | | | |

STA-W-167+00

DIST SOUND DIST SOUND

0+00=STA-W-167+00 "A.R.C." B/W. SOUND DUE SOUTH

9+60 13.8 -8.4

DIST SOUND DIST SOUND

(5.9) 13.7 -8.3

1+00 3.5 +1.9 2+80 3.2 +2.2

~~(4.8)~~ 13.6 -8.2

+10 3.5 — 3.1 +2.3

15:30 13.5 -8.1

15:25 3.5 — 3+00 3.1 —

5+00 13.5 —

(5.4) 3.5 — (5.4) 3.1 —

~~(4.8)~~ 3.4 +2.0 ~~(4.8)~~ 3.1 —

50 3.4 — 3.1 —

3.4 — 3.1 —

3.4 — 50 3.4 +2.0

3.4 — 7.8 +0.6

3.4 — 10.2 -4.8

2+00 3.4 — 13.3 -7.9

3.4 — 13.8 -8.4

3.4 — 4+00 13.8 —

3.3 +2.1 13.8 —

3.3 — 13.8 —

50 3.3 — 13.9 -8.5

3.2 +2.2 13.9 —

2+78 3.2 — 4+50 13.8 -8.4

NOT NEEDED
 STA-W-166+00

STA-W-166+00 8-9-78

(38)

0+00=STA-W-166+00 "A-B-C" B/L: SOUND DUE SOUTH

| DIST | | | SOUND | | | DIST | | | SOUND | | |
|-------|-------|------|-------|-------|------|-------|------|------|-------|--|--|
| | | | | | | 4+00 | 13.3 | -8.0 | | | |
| | | | | | | | 13.4 | -8.1 | | | |
| 1+00 | 3.5 | +1.8 | 2+80 | 3.2 | +2.1 | (5.3) | 13.6 | -8.3 | | | |
| | +10 | 3.5 | | 3.2 | | | 13.5 | -8.2 | | | |
| | 15:35 | 3.5 | | 3.2 | | 5+00 | 13.5 | | | | |
| | | 3.5 | | 3.2 | | | 13.5 | | | | |
| (5.3) | | 3.4 | +1.9 | (5.3) | | | 13.4 | -8.1 | | | |
| | 50 | 3.4 | | 3.1 | | | 12.4 | | | | |
| | | 3.4 | | 3.2 | +2.1 | | 13.9 | -8.6 | | | |
| | | 3.4 | | 50 | 4.5 | +0.8 | 50 | 14.1 | -8.8 | | |
| | | 3.4 | | | 9.0 | -3.7 | | | | | |
| | | 3.4 | | | 12.5 | -7.2 | | | | | |
| | 2+00 | 3.3 | +2.0 | | 13.7 | -8.4 | | | | | |
| | | 3.3 | | | 13.8 | -8.5 | | | | | |
| | | 3.3 | | 4+00 | 13.5 | -8.2 | | | | | |
| | | 3.2 | +2.1 | | 13.5 | | | | | | |
| | | 3.2 | | | 13.3 | -8.0 | | | | | |
| | 50 | 3.2 | | | 13.3 | | | | | | |
| | | 3.2 | | | 13.3 | | | | | | |
| | 2+70 | 3.3 | +2.0 | 4+50 | 13.3 | | | | | | |

8-11-48

STA-188+00

8-11-48

(39)

FINAL SOUNDINGS OF PLOTS #9

DIST SOUND DIST SOUND

STA-W-188+00

0+00 = {^{W-188+00}
_{N-129+00}} SOUND DUE SOUTH

| DIST | SOUND | | DIST | SOUND | |
|--------------|-------|------|-------|-------|------|
| 0+00 | 3.9 | -0.1 | 1+50 | 3.9 | -0.1 |
| +10 | 3.9 | — | | 3.9 | — |
| <u>12:16</u> | 3.9 | — | (3.8) | 3.9 | — |
| (3.8) | 3.8 | 0.0 | | 3.9 | — |
| | 3.9 | -0.1 | | 3.9 | — |
| 50 | 3.9 | — | 2+00 | 3.9 | — |
| | 3.9 | — | | 3.9 | — |
| | 3.8 | 0.0 | | 3.9 | — |
| | 3.7 | +0.1 | | 3.8 | 0.0 |
| | 3.7 | — | | 3.9 | -0.1 |
| | 3.7 | — | | 3.9 | — |
| 1+00 | 3.7 | — | 50 | 3.9 | — |
| | 3.8 | 0.0 | | 9.7 | -5.9 |
| | 3.8 | — | | 13.4 | -9.6 |
| | 3.8 | — | | 13.7 | -9.9 |
| 1+40 | 3.8 | — | 2+90 | 13.5 | -9.7 |

3+00 13.5 -9.7

13.4 -9.6

(3.8) 13.2 -9.4

13.2 —

13.1 -9.3

50 13.0 -9.2

STA-189+00

0+00 = { W-189+00
N-125+00 }

SOUND DUE SOUTH

| DIST | SOUND | | DIST | SOUND | |
|-------|-------|------|-------|-------|------|
| 0+00 | 3.8 | +0.2 | 1+90 | 3.5 | +0.5 |
| 10 | 3.9 | +0.1 | 2+00 | 3.5 | — |
| 12:35 | 3.9 | — | | 3.6 | +0.4 |
| (4.0) | 3.9 | — | (4.0) | 3.8 | +0.2 |
| | 3.9 | — | | 3.8 | — |
| 50 | 3.9 | — | | 4.0 | 0.0 |
| | 3.9 | — | 50 | 4.1 | -0.1 |
| | 3.9 | — | | 8.5 | -4.5 |
| | 3.9 | — | | 12.3 | -8.3 |
| | 3.9 | — | | 12.5 | -8.5 |
| 1+00 | 3.8 | +0.2 | | 12.5 | — |
| | 3.7 | +0.3 | 3+00 | 12.6 | -8.6 |
| | 3.7 | — | 10 | 13.0 | -9.0 |
| | 3.6 | +0.4 | 20 | 13.0 | — |
| | 3.6 | — | 30 | 13.0 | — |
| | 3.6 | — | 40 | 13.2 | -9.2 |
| | 3.5 | +0.5 | 50 | 13.3 | -9.3 |
| 50 | 3.5 | — | 60 | 13.3 | — |
| | 3.5 | — | 70 | 13.4 | -9.4 |
| | 3.5 | — | 80 | 13.4 | — |
| | 3.5 | — | 90 | 13.4 | — |
| 1+80 | 3.5 | — | 7+00 | 13.4 | — |
| | | | 12:40 | | |

STA-190+00W

0+00 = { W-190+00
N-125+00 }

SOUND DUE SOUTH

| DIST | SOUND | | DIST | SOUND | |
|-------|-------|------|-------|-------|------|
| 0+00 | 3.8 | +0.3 | 1+90 | 3.5 | +0.6 |
| 10 | 3.8 | — | 2+00 | 3.5 | — |
| 12:41 | 3.8 | — | | 3.5 | — |
| | 3.7 | +0.4 | (4.1) | 3.5 | — |
| | 3.7 | — | | 3.5 | — |
| 50 | 3.7 | — | | 3.5 | — |
| | 3.7 | — | 50 | 3.8 | +0.3 |
| | 3.8 | +0.3 | | 6.0 | -1.9 |
| | 3.9 | +0.2 | | 12.1 | -8.0 |
| | 3.9 | — | | 13.0 | -8.9 |
| 1+00 | 3.8 | +0.3 | | 13.0 | — |
| | 3.8 | — | 3+00 | 13.0 | — |
| | 3.8 | — | 10 | 13.0 | — |
| | 3.7 | +0.4 | 20 | 13.0 | — |
| | 3.6 | +0.5 | 30 | 13.0 | — |
| | 3.6 | — | 40 | 13.0 | — |
| | 3.5 | +0.6 | 50 | 13.0 | — |
| 50 | 3.5 | — | 60 | 13.0 | — |
| | 3.5 | — | 70 | 13.0 | — |
| | 3.5 | — | 80 | 13.1 | -9.0 |
| | 3.4 | +0.7 | 90 | 13.2 | -9.1 |
| 1+80 | 3.4 | — | 1+00 | 13.2 | — |
| | | | 12:48 | | |

STA-191+00 W. 8-11-98
 0+00 = { W-191+00 }
 { N-125+00 } SOUND DUE SOUTH

| DIST | SOUND | | DIST | SOUND | |
|--------------|-------|------|--------------|-------|------|
| 0+00 | 3.8 | +0.4 | 1+90 | 3.5 | +0.7 |
| +10 | 3.8 | — | 2+00 | 3.5 | — |
| <u>12:52</u> | 3.8 | — | | 3.8 | +0.4 |
| | 3.8 | — | | 3.7 | +0.5 |
| (4.2) | 3.9 | +0.3 | (4.2) | 3.7 | — |
| 50 | 3.8 | +0.4 | | 3.7 | — |
| | 3.8 | — | 50 | 3.8 | +0.4 |
| | 3.8 | — | | 5.0 | -0.8 |
| | 3.7 | +0.5 | | 11.5 | -7.3 |
| | 3.7 | — | | 12.7 | -8.5 |
| 1+00 | 3.6 | +0.6 | | 12.5 | -8.3 |
| | 3.6 | — | 3+00 | 12.7 | -8.5 |
| | 3.5 | +0.7 | 10 | 12.4 | -8.2 |
| | 3.5 | — | 20 | 12.4 | — |
| | 3.5 | — | 30 | 12.4 | — |
| | 3.5 | — | 40 | 12.5 | -8.3 |
| | 3.5 | — | 3+50 | 13.0 | -8.8 |
| 50 | 3.5 | — | 60 | 13.2 | -9.0 |
| | 3.5 | — | 70 | 13.6 | -9.4 |
| | 3.5 | — | 80 | 13.6 | — |
| | 3.5 | — | 90 | 13.2 | -9.0 |
| | 3.5 | — | 1+00 | 12.7 | -8.5 |
| 1+80 | 3.5 | — | <u>12:58</u> | | |

STA-192+00 W. 8-11-98 (91)
 0+00 = { W-192+00 }
 { N-125+00 } SOUND DUE SOUTH

| DIST | SOUND | | DIST | SOUND | |
|--------------|-------|------|-------|-------|------|
| 0+00 | 3.9 | +0.4 | 1+90 | 3.8 | +0.5 |
| +10 | 3.9 | — | 2+00 | 3.8 | — |
| <u>12:02</u> | 3.9 | — | | 3.8 | — |
| | 3.9 | — | | 3.8 | — |
| (4.3) | 3.9 | — | (4.3) | 3.8 | — |
| 50 | 4.0 | +0.3 | | 4.0 | +0.3 |
| | 4.0 | — | 50 | 4.0 | -0.1 |
| | 4.0 | — | | 4.0 | 0.0 |
| | 4.0 | — | | 4.1 | +0.1 |
| | 4.0 | — | | 4.7 | -3.4 |
| 1+00 | 3.9 | +0.4 | | 6.7 | -8.7 |
| | 3.8 | +0.5 | 3+00 | 13.6 | -9.3 |
| | 3.8 | — | 10 | 13.2 | -8.9 |
| | 3.7 | +0.6 | 20 | 12.9 | -8.6 |
| | 3.7 | — | 30 | 12.9 | — |
| | 3.7 | — | 40 | 13.0 | -8.7 |
| 50 | 3.7 | — | 3+50 | 13.1 | -8.8 |
| | 3.7 | — | 60 | 13.2 | -8.9 |
| | 3.7 | — | 70 | 13.2 | — |
| | 3.7 | — | | | |
| | 3.7 | — | | | |
| 1+80 | 3.7 | — | | | |

PIPE LINE X
 13:05

STA-193+00

0+00 = { W-193+00
N-125+00 }

SOUND DUE SOUTH

| DIST | SOUND | | DIST | SOUND | |
|-------|-------|------|-------------|-------|------|
| 0+00 | 3.9 | +0.5 | 1+90 | 3.9 | +0.5 |
| +10 | 3.9 | — | 2+00 | 4.0 | +0.4 |
| 13:08 | 3.9 | — | | 4.2 | +0.2 |
| | 3.8 | +0.6 | | 4.0 | +0.4 |
| (4.1) | 3.8 | — | (4.1) | 4.0 | — |
| 50 | 3.7 | +0.7 | | 4.6 | -0.2 |
| | 3.9 | +0.5 | 50 | 8.0 | -3.6 |
| | 3.9 | — | | 12.1 | -7.7 |
| | 3.7 | +0.7 | | 12.2 | -7.8 |
| | 3.7 | — | | 12.2 | — |
| 1+00 | 3.7 | — | | 12.2 | — |
| | 3.7 | — | 3+00 | 12.0 | -7.6 |
| | 3.8 | +0.6 | 10 | 12.0 | — |
| | | | 20 | 12.0 | — |
| | 3.8 | — | 30 | 12.1 | -7.7 |
| | | | 40 | | |
| | 3.8 | — | 50 | | |
| | | | PIPE LINE X | | |
| 50 | 3.8 | — | 13:12 | | |
| | 3.9 | +0.5 | | | |
| | 3.9 | — | | | |
| 1+80 | 3.9 | — | | | |

STA-194+00W 8-11-78

(71)

0+00 = { W-194+00
N-125+00 }

SOUND DUE SOUTH

| DIST | SOUND | | DIST | SOUND | |
|-------|-------|------|-------|-------|------|
| 0+00 | 4.1 | 0.0 | 1+90 | 4.0 | +0.4 |
| +10 | 4.2 | +0.2 | 2+00 | 4.0 | — |
| 13:15 | 4.2 | — | | 4.0 | — |
| | 4.1 | +0.3 | | 4.0 | — |
| (4.4) | 4.0 | +0.4 | (4.4) | 4.0 | — |
| 50 | 4.1 | +0.1 | | 4.0 | — |
| | 4.1 | — | 50 | 7.8 | -3.4 |
| | 4.1 | — | | 10.8 | -6.4 |
| | 4.0 | +0.4 | | 11.9 | -7.0 |
| | 4.0 | — | | 11.7 | -7.3 |
| 1+00 | 4.0 | — | | 12.4 | -8.0 |
| | 4.0 | — | 3+00 | 12.7 | -8.3 |
| | 3.9 | +0.5 | | | |
| | 3.8 | +0.6 | | | |
| | 3.9 | +0.5 | | | |
| 50 | 3.9 | — | | | |
| | 3.9 | — | | | |
| | 3.9 | — | | | |
| 1+80 | 4.0 | +0.4 | | | |

STA-N-122+00

0+00 = PT. 110' E/STA-N122+00 W/S SHORE B/K.

| DIST | SOUND | DIST | SOUND |
|-------|-----------|-------|-----------|
| 0+00 | 0.0 +4.8 | 1+80 | 14.0 -9.2 |
| 10 | 0.9 +3.9 | (9.8) | 13.8 -9.0 |
| 1+50 | 1.6 +3.2 | 2+00 | 13.0 -8.2 |
| 13:48 | 2.9 +2.4 | 13.0 | — |
| (4.6) | 3.1 +1.7 | | |
| 50 | 3.6 +1.2 | | |
| | 4.5 +0.3 | | |
| | 7.5 -2.7 | | |
| | 8.2 -3.4 | | |
| | 8.2 — | | |
| 1+00 | 9.0 -4.2 | | |
| | 12.0 -7.2 | | |
| | 12.4 -7.6 | | |
| | 13.1 -8.3 | | |
| | 13.8 -9.0 | | |
| 50 | 13.0 -8.2 | | |
| | 14.0 -9.2 | | |
| 1+70 | 14.0 — | | |

PX
STA-N-121+00

0+00 = PT. 110' E/STA-121+00 W/S SHORE B/K.

| DIST | SOUND | DIST | SOUND |
|---------|-----------|-------|--------|
| 0+00 | 0.0 +4.7 | 13.1 | -8.4 |
| 10 | 0.8 +3.9 | 13.0 | -8.3 |
| (4.7) | 1.5 +3.2 | (4.7) | 13.0 — |
| (13:40) | 4.0 +0.7 | | |
| 50 | 6.5 -1.8 | 2+00 | |
| 50 | 8.8 -4.1 | | |
| | 10.0 -5.3 | | |
| | 11.1 -6.4 | | |
| | 11.5 -6.8 | | |
| | 12.0 -7.3 | | |
| 1+00 | 12.5 -7.8 | | |
| | 12.6 -7.9 | | |
| | 12.6 — | | |
| | 12.8 -8.1 | | |
| 1+40 | 13.0 -8.3 | | |

STA-N-123+00

STA-N-129+00

0+00 = PT. 120' E/STA-N-123+00 W/SHORE B/L; SOUND EAST

0+00 = PT. 190' E/STA-N-129+00 W/SHORE B/L; SOUND EAST

| DIST | SOUND | DIST | SOUND |
|--------------|----------|-------|----------|
| 0+00 | 0.2 +4.7 | 1+80 | 2.7 -2.8 |
| 7+0 | 1.0 +3.9 | | 6.0 -1.1 |
| <u>13:58</u> | 1.7 +3.2 | 2+00 | 4.7 +0.2 |
| | 2.1 +2.8 | | |
| (4.9) | 2.1 — | (4.9) | |
| 50 | 2.9 +2.0 | | |
| | 4.4 +0.5 | | |
| | 4.7 +0.2 | | |
| | 4.9 0.0 | | |
| | 6.0 -1.1 | | |
| 1+00 | 7.0 -2.1 | | |
| | 7.6 -2.7 | | |
| | 8.0 -3.1 | | |
| | 8.2 -3.3 | | |
| | 8.8 -3.9 | | |
| 50 | 9.2 -4.3 | | |
| | 9.0 -4.1 | | |
| 1+70 | 8.7 -3.8 | | |

| DIST | SOUND | DIST | SOUND |
|--------------|----------|-------|----------|
| 0+00 | +? | 1+70 | 8.1 -3.1 |
| +02 | 0.0 +5.0 | | 7.2 -2.2 |
| +10 | 0.8 +4.2 | (5.0) | 5.8 -0.8 |
| <u>14:07</u> | 1.7 +3.6 | 2+00 | 4.5 +0.5 |
| | 3.0 +2.0 | | 4.2 +0.8 |
| (5.0) | 4.4 +0.6 | | |
| 50 | 6.0 -1.0 | | |
| | 6.8 -1.8 | | |
| | 6.8 — | | |
| | 7.0 -2.0 | | |
| | 7.0 — | | |
| 1+00 | 7.8 -2.8 | | |
| | 8.0 -3.0 | | |
| | 8.0 — | | |
| | 8.5 -3.5 | | |
| | 8.6 -3.6 | | |
| 50 | 8.6 — | | |
| 1+60 | 8.5 -3.5 | | |

STA-N-125+00

0+00 = PT. 140' E/STA-N-125+00 W/SLOPE B/L: SOUND EAST

| DIST | SOUND | | DIST | SOUND | |
|--------------|-------|------|--------------|-------|------|
| 0+00 | 0.2 | +4.9 | 1+80 | 7.2 | -2.1 |
| +10 | 0.6 | +4.5 | (5.1) | 7.0 | -1.9 |
| <u>14:19</u> | 1.6 | +3.5 | 2+00 | 3.5 | +1.6 |
| (5.0) | 3.5 | +1.6 | | 2.8 | +2.3 |
| (5.1) | 5.0 | +0.1 | <u>14:19</u> | 2.6 | +2.5 |
| 50 | 6.0 | -0.9 | | | |
| | 6.6 | -1.5 | | | |
| | 6.8 | -1.7 | | | |
| | 6.7 | -1.6 | | | |
| | 6.8 | -1.7 | | | |
| 1+00 | 7.5 | -2.4 | | | |
| | 8.0 | -2.9 | | | |
| | 8.0 | — | | | |
| | 8.2 | -3.1 | | | |
| | 8.6 | -3.5 | | | |
| 50 | 8.8 | -3.7 | | | |
| | 8.8 | — | | | |
| 1+70 | 8.0 | -2.9 | | | |

STA-N-126+00

8-11-78

(41)

0+00 = PT. 100' E/STA-N-126+00 W/SLOPE B/L: SOUND EAST

| DIST | SOUND | | DIST | SOUND | |
|--------------|-------|------|-------|-------|------|
| 0+00 | 0.3 | +4.9 | 1+80 | 8.6 | -3.4 |
| +10 | 1.2 | +4.0 | (5.2) | 8.5 | -3.3 |
| <u>14:27</u> | 3.2 | +2.0 | 2+00 | 7.2 | -2.0 |
| (5.2) | 9.9 | +0.8 | | 7.2 | — |
| | 6.0 | -0.8 | | | |
| 50 | 7.3 | -2.1 | | | |
| | 8.0 | -2.8 | | | |
| | 7.9 | -2.7 | | | |
| | 7.9x | -2.2 | | | |
| | 7.3 | -2.1 | | | |
| 1+00 | 7.8 | -2.6 | | | |
| | 8.1 | -2.9 | | | |
| | 8.4 | -3.2 | | | |
| | 8.7 | -3.5 | | | |
| | 8.7 | — | | | |
| 50 | 8.7 | — | | | |
| | 8.6 | -3.4 | | | |
| 1+70 | 8.6 | — | | | |

8-11-48

STA-N-127+00

8-11-48

(45)

STA-N-128+00

0+00=PT. 90' E/STA-N-127+00 W/SWORE B/K. SOUND EAST

0+00=PT. 80' E/STA-N-128+00 W/SWORE B/K. SOUND EAST

DIST SOUND

DIST SOUND

DIST SOUND

DIST SOUND

0+00 + ? 1+80 8.3 - 3.0

0+02⁰² 0.0 +5.4 1+80 8.0 - 2.6

+10 0.3 +5.0 2+00 8.5 - 3.2

+10 0.5 +4.9 2+00 5.2 +0.2

19:35 1.3 +4.0 2+00 8.5 - 3.2

19:46 1.5 +3.9 2+00 5.2 +0.2

(5.3) 2.6 +2.7 (5.3) 2.8 - 2.5

2.3 +3.1 5.2 —

3.2 +2.1 2+20 6.2 - 0.3

(5.4) 3.8 +1.6 (5.4) —

50 1.6 +0.7 19:57

50 4.7 +0.7

7.7 - 2.4

6.3 - 0.9

9.2 - 3.9

9.0 - 3.6

9.3 - 4.0

9.1 - 4.0

9.0 - 3.7

9.6 - 4.2

1+00 8.7 - 3.4

1+00 9.6 —

8.5 - 3.2

9.7 - 4.3

8.4 - 3.1

9.8 - 4.4

8.3 - 3.0

9.4 - 4.0

8.1 - 2.8

8.5 - 3.1

50 7.8 - 2.5

50 8.5 —

7.7 - 2.4

8.8 - 3.4

1+70 7.7 —

1+70 8.7 - 3.3

STA-N-129+0.0

STA-N-130+0.0 N

0+00 = PT. 70' E/STA-N-129+0.0 W/SHOBE B/L: SOUND EAST

0+00 = PT. 70' E/STA-N-130+0.0 W/SHOBE B/L: SOUND EAST

| DIST SOUND | | | DIST SOUND | | | DIST SOUND | | | DIST SOUND | | |
|------------|------|------|------------|-----|------|------------|------|------|------------|-----|------|
| 0+00 | +7. | | 1+70 | 7.7 | -2.2 | 0+00 | 0.0 | +5.5 | 1+80 | 5.7 | -0.2 |
| 0+05 | 0.0 | +5.5 | | 7.7 | — | +10 | 0.9 | +4.6 | 1+90 | 5.7 | — |
| +10 | 0.5 | +5.0 | (5.5) | 7.7 | -1.9 | 15:05 | 2.0 | +3.5 | | | |
| 14:55 | 1.5 | +4.0 | 2+00 | 7.0 | -1.5 | | 3.2 | +2.3 | (5.5) | | |
| (5.5) | 2.3 | +3.2 | | 9.0 | -3.5 | (5.5) | 4.2 | +1.3 | | | |
| | 3.5 | +3.0 | | 9.0 | — | 50 | 5.0 | +0.5 | | | |
| 50 | 4.0 | +1.5 | | 8.1 | -2.6 | | 5.8 | -0.3 | | | |
| | 4.5 | +1.0 | | 8.2 | -2.7 | | 7.1 | -1.6 | | | |
| | 5.3 | +0.2 | 50 | 8.0 | -2.5 | | 8.2 | -2.7 | | | |
| | 6.6 | -1.1 | | | | | 9.4 | -3.9 | | | |
| | 8.5 | -3.0 | | | | 1+00 | 9.8 | -4.3 | | | |
| 1+00 | 10.4 | -4.9 | | | | | 10.5 | -5.0 | | | |
| | 10.8 | -5.3 | | | | | 9.5 | -5.3 | | | |
| | 11.0 | -5.5 | | | | | 10.2 | -4.7 | | | |
| | 10.6 | -5.1 | | | | | 9.5 | -4.0 | | | |
| | 9.5 | -4.0 | | | | 50 | 9.4 | -3.9 | | | |
| 50 | 8.0 | -2.5 | | | | | 9.2 | -3.7 | | | |
| 1+60 | 8.0 | — | | | | 1+70 | 7.7 | -1.9 | | | |

8-11-48

17960
10220
7730

(77)

PX STA-N-131+00

0+00 = PT. 70' E/STA-N-131+00 W/SHOBE B/L: SOUND EAST

| DIST | SOUND | DIST | SOUND |
|--------|-----------|-------|----------|
| 0-0367 | | | |
| 0+00 | 0.0 +5.5 | 1+70 | 8.0 -2.5 |
| 0+00 | 0.2 +5.3 | | 6.1 -0.6 |
| +1.0 | 1.1 +4.4 | (5.5) | 6.1 — |
| 15:15 | 2.1 +3.4 | 2+00 | |
| (5.5) | 3.0 +2.5 | | |
| | 3.8 +1.7 | | |
| 50 | 4.7 +0.8 | | |
| | 4.8 +0.7 | | |
| | 5.2 +0.3 | | |
| | 5.5 0.0 | | |
| | 6.1 -0.6 | | |
| 1+00 | 9.0 -3.5 | | |
| | 10.7 -5.2 | | |
| | 11.8 -6.3 | | |
| | 11.8 — | | |
| | 11.1 -5.6 | | |
| 50 | 10.2 -4.7 | | |
| 1+60 | 9.2 -3.7 | | |

FINAL SOUNDINGS PROJ #9 B-27-48
CDE SECT.

STA. N 106+00 CON'T. (48)

STA. N. 106+00 EL CARMEL B/L

DIST. SOUND

DIST SOUND

PX

0+00 = STA. N. 106+00 EL CARMEL B/L

10:24
+70

10:25
+60

SOUND EAST

DIST SOUND DIST. SOUND

10.1 -6.8

12.3 -9.0

10:10
0+29 0.0 +3.3 10:22
2+00 11.1 -7.8

10.4 -7.1

12.3 —

+40 1.0 +2.3 11.0 -7.7

4+00 10.1 -6.8

12.0 -8.7

+50 2.1 +1.1 11.0 -7.7

10.3 -7.0

6+00 12.0 —

3.1 +0.2 11.0 -7.7

10.6 -7.3

12.2 -8.9

(3.3) 6.2 -2.9 10.9 -7.6

10.9 -7.6

12.0 -8.7

8.1 -4.8 +50 10.9 —

(3.3) 10.9 -7.6

12.0 —

10:14 9.7 -5.4 10.4 -7.1

+50 11.0 -7.7

(3.3) 12.2 -8.9

10:20
1+00 10.2 -6.9 (3.3) 10.5 -7.2

11.2 -7.9

+50 12.1 -8.8

11.3 -8.0 11.2 -7.9

11.2 —

12.1 —

12.0 -8.7 10.7 -7.8

11.3 -8.0

11.9 -8.6

(3.3) 12.0 — 3+00 10.7 —

11.2 -7.9

12.0 -8.7

12.1 -8.8 10.5 -7.2

5+00 12.0 -8.7

12.0 —

+50 12.4 -9.1 9.9 -6.6

12.1 -8.8

7+00 12.1 -8.8

12.6 -9.3 10.3 -7.0

11.7 -8.4

12.2 -8.9

12.6 — 10.1 -6.8

11.9 -8.6

12.2 —

12.0 -8.7 +50 10.0 -6.7

11.4 -8.1

12.3 -9.0

+90 11.6 -8.3 +60 10.0 —

+50 12.4 -9.1

+40 12.7 -9.4

STA N. 106+00 CONT. 8-27-48

| DIST | SOUND | |
|----------------------|-------|------|
| <u>10:26</u> +50 | 12.9 | -9.5 |
| | 13.0 | -9.6 |
| | 12.9 | -9.5 |
| | 12.5 | -9.1 |
| | 12.4 | -9.0 |
| 8+00 | 12.6 | -9.2 |
| | 12.7 | -9.3 |
| (3.4) | 12.5 | -9.1 |
| | 12.5 | -9.1 |
| | 12.2 | -8.8 |
| +50 | 12.2 | -8.8 |
| | 12.1 | -8.7 |
| | 11.9 | -8.5 |
| | 12.0 | -8.6 |
| | 12.0 | — |
| <u>10:28</u> 9+00 | 11.9 | 8.5 |

STA N. 105+00 8-27-48

0+00 = STA N 105+00 EL. CARMEL B/L

SOUND EAST

| DIST. | SOUND | | DIST | SOUND | |
|---------------------|-------|------|---------------------|-------|------|
| | | | <u>10:49</u> +10 | 11.6 | -8.2 |
| 0+00 | ? | | | 11.6 | — |
| +40 | ? | | | 11.6 | — |
| <u>10:39</u> +50 | 0.0 | +3.4 | | 11.5 | -8.1 |
| | 1.5 | +1.9 | | 11.2 | -7.8 |
| | 2.8 | +0.6 | +50 | 11.1 | -7.7 |
| (3.4) | 3.9 | -0.5 | | 11.1 | — |
| | 7.5 | -4.1 | | 11.0 | -7.6 |
| 1+00 | 10.2 | -6.8 | | 11.2 | -7.8 |
| | 11.0 | -7.6 | | 11.0 | -7.6 |
| | 11.5 | -8.1 | 3+00 | 11.0 | — |
| | 11.8 | -8.4 | (3.4) | 10.9 | -7.5 |
| | 11.9 | -8.5 | | 10.2 | -6.8 |
| +50 | 11.9 | — | | 10.5 | -7.1 |
| | 11.8 | -8.4 | | 10.8 | -7.1 |
| | 11.7 | -8.3 | +50 | 10.5 | -7.1 |
| | 11.5 | -8.1 | | 10.5 | — |
| | 11.5 | — | | 10.7 | -7.3 |
| 2+00 | 11.5 | — | +80 | | |

STA. N 105+00 CONT 8-27-48

| DIST | SOUND | | DIST | SOUND |
|---------------------|-------|------|---------------------|------------|
| <u>10:46</u> +90 | 11.0 | -7.5 | <u>10:48</u> +80 | 11.6 -8.1 |
| 4+00 | 11.0 | -7.5 | | 11.6 — |
| | 11.3 | -7.8 | 6+00 | 11.0 -7.5 |
| | 11.4 | -7.9 | | 11.0 — |
| | 11.0 | -7.5 | | 11.0 — |
| | 11.0 | — | | 11.0 — |
| +50 | 10.9 | -7.4 | | 11.0 — |
| | 11.0 | -7.5 | +50 | 11.0 — |
| | 10.8 | -7.3 | | 10.9 -7.4 |
| (3.5) | 11.0 | -7.5 | (3.5) | 11.0 -7.5 |
| | 11.3 | -7.8 | | 11.9 -8.4 |
| 5+00 | 11.3 | — | | 12.2 -8.7 |
| | 11.7 | -8.4 | 7+00 | 12.3 -8.8 |
| | 11.8 | -8.3 | | 12.1 -8.6 |
| | 11.8 | — | | 12.1 — |
| | 11.5 | -8.0 | | 13.7 -10.2 |
| +50 | 11.8 | -8.3 | | 13.0 -9.5 |
| | 11.9 | -8.4 | +50 | 12.2 -8.7 |
| +70 | 11.9 | -8.1 | +60 | 12.0 -8.5 |

STA. N 105+00 CONT, (50)
8-27-48

| DIST | SOUND |
|---------------------|-----------|
| <u>10:49</u> +70 | 12.7 -9.2 |
| | 13.1 -9.6 |
| | 13.0 -9.5 |
| 8+00 | 13.0 — |
| | 13.1 -9.6 |
| | 13.1 — |
| | 12.9 -9.4 |
| (3.5) | 12.7 -9.2 |
| +50 | 12.3 -8.8 |
| | 12.3 -8.8 |
| | 12.1 -8.6 |
| | 12.0 -8.5 |
| | 12.1 -8.6 |
| 9+00 | 12.0 -8.5 |
| | 12.2 -8.7 |
| <u>10:50</u> | 12.0 -8.5 |

PX

STA. N. 104+00 8-27-48

STA-N-104+00 CONT (5)

0+00 = STA N104+00 EL CARMEL B/L
SOUND EAST

| DIST. | SOUND | DIST. | SOUND |
|--------------|-----------|-----------|-------|
| 10:57 776 | 0.0 +3.5 | +20 11.6 | -8.1 |
| +50 | 0.5 +3.0 | 11.4 | -7.9 |
| | 1.9 +1.6 | 11.5 | -8.0 |
| | 3.0 +0.5 | +50 11.6 | -8.1 |
| | 6.4 -2.9 | 11.5 | -8.0 |
| | 9.0 -5.5 | 11.5 | — |
| 1+00 | 10.0 -6.5 | 12.2 | -8.7 |
| | 10.0 — | 13.0 | -9.5 |
| (3.5) | 10.5 -7.0 | +400 12.9 | -9.4 |
| | 10.6 -7.1 | 12.9 | -9.4 |
| | 10.9 -7.4 | 12.8 | -9.3 |
| +50 | 10.9 — | 12.8 | -9.3 |
| | 11.2 -7.7 | 12.2 | -8.7 |
| | 11.4 -7.9 | +50 12.4 | -8.9 |
| | 11.5 -8.0 | 12.0 | -8.5 |
| | 11.6 -8.1 | 12.0 | — |
| 2+00 | 11.8 -8.3 | 12.3 | -8.8 |
| +10 | 11.7 -8.2 | +90 12.4 | -8.9 |

| DIST | SOUND | DIST | SOUND |
|---------------|-----------|------------|-------|
| 11:01 4+00 | 12.3 -8.8 | +90 11.0 | -7.4 |
| | 11.9 -8.7 | 6+00 11.0 | — |
| | 11.3 -7.8 | 10.8 | -7.2 |
| | 11.3 — | 11.2 | -7.6 |
| | 11.5 -8.0 | 11.3 | -7.7 |
| +50 | 11.2 -7.7 | 11.2 | -7.6 |
| | 11.0 -7.5 | +50 11.2 | — |
| | 11.0 — | 11.5 | -7.9 |
| (3.3) | 11.2 -7.7 | 12.0 | -8.4 |
| | 11.4 -7.9 | (3.6) 12.0 | — |
| 5+00 | 11.5 -8.0 | 12.0 | — |
| | 11.4 -7.9 | 7+00 12.0 | — |
| | 11.5 -8.0 | 12.1 | -8.5 |
| | 11.0 -7.5 | 12.1 | — |
| | 11.1 -7.6 | 12.1 | — |
| +50 | 11.4 -7.9 | 12.1 | — |
| | 11.3 -7.8 | +50 12.1 | — |
| | 10.9 -7.4 | 12.1 | — |
| +80 | 11.1 -7.6 | +70 12.0 | -8.4 |

STA. N 104+00 CONT. 8-27-48

DIST. SOUND DIST. SOUND

11:05
+80 11.9 -8.3
12.0 -8.4
8+00 12.0 —
12.0 —
12.3 -8.7
12.3 —
12.4 -8.8
+50 12.4 —
12.7 -9.1
(3.6) 12.5 -8.9
12.2 -8.6
12.1 -8.5
9+00 12.0 -8.4
12.1 -8.5
12.0 -8.4
12.0 —
11:06 11.9 -8.3
+50 11.7 -8.1

PX

STA N 121+00 8-30-48 (52)

0+00 = STA N 121+00 P'P5 B/L

SOUND WEST

DIST SOUND DIST SOUND DIST SOUND
13:06
0+00 3.0 +0.4 13:10
+80 11.8 -8.1
+10 3.0 — (3.4) 11.7 -8.3
(3.4) 3.0 — 2+00 11.5 -8.2
5.5 -2.1 11.8 -8.4
10.0 -6.6 12.2 -8.8
+50 11.3 -7.9 12.5 -9.1
11.2 -7.8 12.2 -8.8
11.6 -8.2 +50 12.1 -8.7
11.3 -7.9 11.9 -8.5
11.4 -8.0 12.0 -8.6
1+00 11.5 -8.1 12.8 -9.4
11.8 -8.4 12.2 -8.8
11.9 -8.5 3+00 12.6 -9.2
11.9 — 12.3 -8.9
11.9 — 12.6 -9.2
+50 11.9 — 12.3 -8.9
11.8 -8.4 12.0 -8.6
+70 11.8 — +50 12.0 —

PX

STA. N. 121+00 CONT. 8-30-48

| DIST. | SOUND | DIST. | SOUND |
|--------------|-----------|--------------|------------|
| 13:13 +60 | 12.0 -8.6 | (3.4) +50 | 11.3 - 9.9 |
| (3.4) | 12.0 — | 13:15 | |
| | 11.6 -8.3 | | |
| | 12.0 -8.6 | | |
| 4+00 | 11.5 -8.1 | | |
| | 12.6 -9.2 | | |
| | 11.8 -8.1 | | |
| | 11.7 -8.3 | | |
| | 11.0 -7.6 | | |
| 450 | 10.7 -7.3 | | |
| | 10.9 -7.5 | | |
| | 10.9 — | | |
| | 11.0 -7.6 | | |
| | 11.1 -7.7 | | |
| 5+00 | 11.3 -7.9 | | |
| | 11.5 -8.1 | | |
| | 11.0 -7.6 | | |
| | 11.3 -7.9 | | |
| +40 | 11.5 -8.1 | | |

STA. N. 122+00 8-30-48 (53)

D+00 = STA. N. 122+00 PIP5 B/L

| SOUND WEST | | | |
|---------------|-----------|--------------|-----------|
| DIST. | SOUND | DIST. | SOUND |
| 13:21 0+00 | 3.0 +0.4 | 13:24 +80 | 11.7 -8.3 |
| +10 | 3.0 — | (3.4) | 11.8 -8.1 |
| (3.4) | 3.9 -0.5 | 2+00 | 11.7 -8.3 |
| | 3.0 +0.1 | | 11.8 -8.1 |
| | 4.0 -0.6 | | 11.7 -8.3 |
| +50 | 10.0 -6.6 | | 11.8 -8.1 |
| | 12.5 -9.1 | | 11.7 -8.3 |
| | 12.1 -8.7 | +50 | 11.4 -8.0 |
| | 12.2 -8.8 | | 11.5 -8.1 |
| | 12.2 — | | 11.7 -8.3 |
| 4+00 | 12.2 — | | 11.9 -8.5 |
| | 12.5 9.1 | | 11.8 -8.1 |
| | 12.3 -8.9 | 3+00 | 11.8 — |
| | 11.9 -8.5 | | 12.2 -8.8 |
| | 11.8 -8.1 | | 12.3 -8.9 |
| +50 | 11.9 -8.5 | | 12.8 -9.1 |
| | 12.1 -8.7 | | 12.6 -9.2 |
| +70 | 12.0 -8.6 | +50 | 12.2 -8.8 |

STA. N. 122+00 CONT 8-30-48

| DIST | SOUND | DIST. | SOUND | PX |
|--------------|-------|-------|--------------|------------|
| 13:27 +60 | 12.0 | -8.6 | (3.4) +50 | 11.3 - 7.9 |
| (3.4) | 11.8 | -8.4 | 13:29 | |
| | 11.5 | -8.1 | | |
| | 11.1 | -7.7 | | |
| 4+00 | 11.0 | -7.6 | | |
| | 11.2 | -7.8 | | |
| | 11.1 | -7.7 | | |
| | 11.5 | -8.1 | | |
| | 11.8 | -8.4 | | |
| +50 | 12.1 | -8.7 | | |
| | 12.2 | -8.8 | | |
| | 12.2 | — | | |
| | 12.3 | -8.9 | | |
| | 12.1 | -8.7 | | |
| 5+00 | 11.7 | -8.4 | | |
| | 11.6 | -8.2 | | |
| | 12.0 | -8.6 | | |
| | 12.0 | — | | |
| +40 | 11.2 | 7.8 | | |

STA. N. 123+00 8-30-48

| 0+00 = STA. N. 123+00 P'P5 B/L (5A) | | SOUND WEST | | PX |
|-------------------------------------|------------------------------------|------------|--------------|------------|
| DIST. | SOUND | DIST. | SOUND | |
| 13:40 0+00 | 3.2 | +0.2 | 13:42 +80 | 12.9 - 9.5 |
| +10 | 3.2 | — | (3.4) | 12.8 - 9.4 |
| (3.4) | 3.3 | +0.1 | 2+00 | 13.0 - 9.6 |
| | 3.3 | — | | 12.7 - 9.3 |
| | 5.0 | -1.6 | | 12.5 - 9.1 |
| +50 | 9.0 | -5.6 | | 12.8 - 9.1 |
| | 10.8 12.8 | -7.1 | | 12.2 - 8.8 |
| | 12.7 | -9.3 | +50 | 12.3 - 8.9 |
| | 13.0 | -9.6 | | 12.8 - 9.4 |
| | 13.0 | — | | 12.9 - 9.5 |
| 1+00 | 12.8 | -9.4 | | 12.2 - 8.8 |
| | 13.0 | -9.6 | | 12.9 - 9.5 |
| | 12.9 | -9.5 | 3+00 | 12.0 - 8.6 |
| | 13.0 | -9.6 | | 12.4 - 9.0 |
| | 12.9 | -9.5 | | 12.3 - 8.9 |
| +50 | 12.9 | — | | 12.0 - 8.6 |
| | 13.0 | -9.6 | | 11.8 - 8.4 |
| +70 | 13.0 | — | +50 | 11.8 — |

STA. N. 123+00 CONT. 8-30-48

| DIST. | SOUND | DIST. | SOUND |
|---------------------|------------|---------------------|------------|
| <u>13:44</u> +60 | 11.8 - 8.1 | <u>13:47</u> +50 | 12.5 - 9.1 |
| (3.4) | 11.8 — | (3.4) | 12.0 - 8.6 |
| | 11.8 — | | 12.0 — |
| | 11.9 - 8.5 | | 12.4 - 9.0 |
| 4+00 | 11.7 - 8.3 | | 13.0 - 9.6 |
| | 11.8 - 8.1 | 6+00 | 12.5 - 9.1 |
| | 11.8 — | | 12.2 - 8.8 |
| | 11.9 - 8.5 | | 12.3 - 8.9 |
| | 12.2 - 8.8 | | 11.9 - 8.5 |
| +50 | 11.9 - 8.5 | | 11.8 - 8.4 |
| | 12.0 - 8.6 | +50 | 11.7 - 8.3 |
| | 12.0 — | | 12.0 - 8.6 |
| | 11.9 - 8.5 | | 11.9 - 8.5 |
| | 12.1 - 8.7 | | 12.0 - 8.6 |
| 5+00 | 11.5 - 8.1 | | 11.9 - 8.5 |
| | 12.0 - 8.6 | 7+00 | 11.9 — |
| | 11.9 - 8.5 | | 11.9 — |
| | 12.0 - 8.6 | | 11.9 — |
| +40 | 12.0 — | +30 | 11.9 — |

STA. N. 128+00 CONT. (55) 8-30-48

| DIST. | SOUND | DIST. | SOUND |
|---------------------|------------|---------------------|------------|
| <u>13:49</u> +40 | 11.9 - 8.5 | <u>13:52</u> +30 | 11.8 - 8.4 |
| +50 | 11.9 — | (3.4) | 11.7 - 8.3 |
| (3.4) | 11.9 — | +50 | 11.8 - 8.4 |
| | 12.0 - 8.6 | | 11.8 — |
| | 12.1 - 8.7 | | 11.9 - 8.5 |
| | 12.0 - 8.6 | | 11.8 - 8.1 |
| 8+00 | 11.7 - 8.3 | | 11.9 - 8.5 |
| | 11.9 - 8.5 | 10+00 | 12.0 - 8.6 |
| | 11.7 - 8.3 | <u>13:53</u> | |
| | 11.9 - 8.5 | | |
| | 11.4 - 8.0 | | |
| +50 | 11.1 - 7.7 | | |
| | 11.2 - 7.8 | | |
| | 11.3 - 7.9 | | |
| | 11.2 - 7.8 | | |
| | 11.2 — | | |
| 9+00 | 11.3 - 7.9 | | |
| | 11.5 - 8.1 | | |
| +20 | 11.7 - 8.3 | | |

STA N 123+40 8-30-48

0400 = STA N 123+40 PIPES B/L
SOUND WEST

| DIST. | SOUND | | DIST. | SOUND | |
|---------------|-------|------|--------------|-------|------|
| 14:05 0400 | 3.4 | +0.1 | 14:09 +80 | 10.7 | -7.2 |
| +10 | 3.4 | — | (3.5) | 11.0 | -7.5 |
| (3.5) | 3.5 | 0.0 | 2+00 | 10.9 | -7.4 |
| | 3.8 | -0.3 | | 11.3 | -7.8 |
| | 3.5 | 0.0 | | 12.1 | -8.6 |
| +50 | 7.9 | -1.4 | | 12.8 | -9.3 |
| | 9.9 | -6.4 | | 12.4 | -8.9 |
| | 10.9 | -7.4 | +50 | 12.3 | -8.8 |
| | 12.0 | -8.5 | | 11.3 | -7.8 |
| | 12.1 | -8.6 | | 11.8 | -8.2 |
| 1+00 | 12.1 | — | | 12.0 | -8.5 |
| | 12.8 | -9.3 | | 11.7 | -8.2 |
| | 12.0 | -8.5 | 3+00 | 11.9 | -8.4 |
| | 11.8 | -8.3 | | 11.8 | -8.3 |
| | 11.6 | -8.1 | | 10.9 | -7.4 |
| +50 | 11.3 | -7.8 | | 10.0 | -6.5 |
| | 11.7 | -8.2 | | 10.3 | -6.8 |
| +70 | 11.0 | -7.5 | +50 | 10.5 | -7.0 |

STA. N 123+40 CONT 8-30-48

| DIST | SOUND | | DIST | SOUND | |
|--------------|-----------------|------|--------------|-------|------|
| 14:12 +60 | 10.6 | -7.1 | 14:14 +50 | 12.2 | -8.7 |
| (3.5) | 11.0 | -7.5 | (3.5) | 11.8 | -8.3 |
| | 10.6 | -7.1 | | 11.8 | — |
| | 10.8 | -7.3 | | 11.7 | -8.2 |
| 4+00 | 11.0 | -7.5 | | 11.6 | -8.1 |
| | 11.3 | -7.8 | 6+00 | 11.3 | -7.8 |
| | 11.0 | -7.5 | | 11.1 | -7.6 |
| | 11.2 | -7.7 | | 10.7 | -7.2 |
| | 11.9 | -8.4 | | 10.5 | -7.0 |
| +50 | 11.3 | — | | 10.8 | -7.3 |
| | 12.0 | -8.5 | +50 | 10.8 | — |
| | 12.0 | — | | 10.8 | — |
| | 12.1 | -8.6 | | 9.9 | -6.4 |
| | 11.3 | -7.8 | | 10.1 | -6.6 |
| 5+00 | 11.7 | -8.2 | | 10.0 | -6.5 |
| | 11.8 | -8.3 | 7+00 | 10.1 | -6.6 |
| | 11.8 | — | | 10.8 | -7.3 |
| | 11.6 | -8.1 | | 11.2 | -7.7 |
| +20 | 11.8 | -8.3 | +20 | 11.2 | -7.7 |

STA. N123440 CONT. 8-30-48

PROV 9

STA W189+00

8-31-48

(57)

| DIST. | SOUND | | DIST. | SOUND | PX |
|-------|-------|------|-------|-------------------------|-------|
| 14:17 | | | 14:19 | | |
| +40 | 10.5 | -7.0 | +30 | 11.5 | -8.0 |
| +50 | 9.0 | -5.5 | (3.5) | 11.5 | — |
| (3.5) | 9.0 | — | +50 | 14.5 15.5 | -11.0 |
| | 10.2 | -6.7 | | 14.5 | -11.0 |
| | 10.5 | -7.0 | | 14.5 | -11.0 |
| | 10.8 | -7.3 | | 14.5 | -11.0 |
| 8+00 | 10.6 | -7.1 | | 14.5 | -11.0 |
| | 10.6 | — | 10+00 | 14.5 | -11.0 |
| | 10.5 | -7.0 | 14:20 | | |
| | 10.0 | -6.5 | | | |
| | 10.9 | -7.4 | | | |
| +50 | 10.9 | — | | | |
| | 10.5 | -7.0 | | | |
| | 11.0 | -7.5 | | | |
| | 11.5 | -8.0 | | | |
| | 11.2 | -7.7 | | | |
| 9+00 | 11.1 | -7.6 | | | |
| | 11.4 | -7.9 | | | |
| +20 | 11.0 | -7.5 | | | |

0+00 = STA. W189+00 ON STA N125+00

SOUND SOUTH

| DIST. | SOUND | | DIST. | SOUND | PX |
|-------|-------|------|-------|-------|------|
| 10:26 | | | 10:28 | | |
| +00 | 4.0 | +0.2 | +80 | 14.0 | -9.8 |
| +10 | 4.0 | — | (4.2) | 13.9 | -9.7 |
| (4.2) | 3.9 | +0.3 | 2+00 | 13.8 | -9.6 |
| | 3.9 | — | | 13.5 | -9.3 |
| | 3.9 | — | | 13.2 | -9.0 |
| +50 | 8.1 | -3.9 | | 13.0 | -8.8 |
| | 13.0 | -8.8 | | 13.0 | — |
| +70 | 14.0 | -9.8 | +50 | 13.0 | — |

STA - W190+00

0+00 = STA W-190+00 ON STA. N125+00

SOUND SOUTH

| DIST. | SOUND | | DIST. | SOUND | PX |
|-------|-------|------|-------|-------|------|
| 10:33 | | | 10:35 | | |
| +00 | 4.0 | +0.2 | +80 | 13.1 | -8.9 |
| (4.2) | 4.0 | — | (4.2) | 13.1 | — |
| | 3.9 | +0.3 | 2+00 | 13.0 | -8.8 |
| | 3.9 | — | | 12.9 | -8.7 |
| | 4.9 | -0.7 | | 13.0 | -8.8 |
| +50 | 11.5 | -7.3 | | 13.0 | — |
| | 13.2 | -9.0 | | 13.2 | -9.0 |
| +70 | 13.4 | -9.2 | +50 | 13.5 | -9.3 |

PROJ #9 STA. W 191+00 8-31-48
 0+00 = STA W 191+00 ON STA N 125+00

SOUND SOUTH

| DIST | SOUND | | DIST. | SOUND | |
|----------------------|-------|------|---------------------|-------|------|
| <u>10:40</u> 1+00 | 3.7 | +0.5 | +80 | 12.5 | -8.3 |
| +10 | 3.8 | +0.4 | (4.2) | 12.4 | -8.2 |
| (4.2) | 3.6 | +0.6 | 2+00 | 12.5 | -8.3 |
| | 3.5 | +0.7 | | 12.6 | -8.4 |
| | 3.5 | — | | 12.5 | -8.3 |
| +50 | 9.0 | -4.8 | | 12.6 | -8.4 |
| | 11.5 | -7.3 | | 12.5 | -8.3 |
| +70 | 11.9 | -7.7 | <u>10:42</u> +50 | 12.5 | — |

STA W 192+00
 0+00 = STA W 192+00 ON STA N 125+00

SOUND SOUTH

| DIST | SOUND | | DIST | SOUND | |
|----------------------|-------|------|---------------------|-------|------|
| <u>10:47</u> 1+00 | 3.8 | +0.4 | +80 | 12.5 | -8.3 |
| +10 | 3.9 | +0.3 | (4.2) | 12.6 | -8.4 |
| (4.2) | 3.8 | +0.4 | 2+00 | 12.5 | -8.3 |
| | 3.9 | +0.3 | | 12.5 | — |
| | 4.0 | +0.2 | | 12.1 | -7.9 |
| +50 | 11.5 | -7.3 | | 12.6 | -8.4 |
| | 12.2 | -8.0 | | 12.5 | -8.3 |
| +70 | 12.5 | -8.3 | <u>10:49</u> +50 | 12.6 | -8.4 |

STA W 193+00 8-31-48 (58)
 0+00 = STA W 193+00 ON STA N 125+00

SOUND SOUTH

| DIST | SOUND | | DIST | SOUND | |
|----------------------|-------|------|---------------------|-------|------|
| <u>10:55</u> 1+00 | 3.3 | +0.8 | +80 | 12.6 | -8.5 |
| +10 | 3.3 | — | (4.1) | 13.1 | -9.0 |
| (4.1) | 3.3 | — | 2+00 | 13.2 | -9.1 |
| | 4.2 | -0.1 | | 13.1 | -9.0 |
| | 5.9 | -1.8 | | 13.0 | -8.9 |
| +50 | 11.2 | -7.1 | | 13.0 | — |
| | 12.1 | -8.0 | | 13.0 | — |
| +70 | 12.2 | -8.1 | <u>10:57</u> +50 | 13.3 | -9.2 |

STA W 197+00
 0+00 = STA W 197+00 ON N. 125+00

SOUND SOUTH

| DIST | SOUND | | DIST | SOUND | |
|----------------------|-------|------|---------------------|-------|------|
| <u>11:30</u> 1+00 | 2.8 | +0.9 | +80 | 12.1 | -8.4 |
| +10 | 3.1 | +0.4 | (3.7) | 12.0 | -8.3 |
| (3.7) | 3.9 | -0.2 | 2+00 | 11.9 | -8.2 |
| | 7.0 | -3.3 | | 11.9 | — |
| | 11.0 | -7.3 | | 12.0 | -8.3 |
| +50 | 11.4 | -7.7 | | 12.0 | — |
| | 11.5 | -7.8 | | 12.3 | -8.6 |
| +70 | 11.6 | -7.9 | <u>11:32</u> +50 | 12.5 | -8.8 |

STA W 195+00 8-31-48
0400 = STA. W 195+00 ON STA. N 125+00

SOUND SOUTH

| DIST | SOUND | | DIST | SOUND | Pt |
|----------------------|-------|------|---------------------|-------|------|
| <u>11:13</u> 1+00 | 3.9 | 0.0 | +80 | 12.0 | -8.1 |
| +10 | 3.5 | +0.4 | (3.9) | 11.9 | -8.0 |
| (3.9) | 4.1 | -0.2 | 2+00 | 11.9 | — |
| | 3.3 | +0.6 | | 12.0 | -8.1 |
| | 6.5 | -2.6 | | 12.0 | — |
| +50 | 10.3 | -6.4 | | 12.3 | -8.4 |
| | 11.9 | -8.0 | | 12.7 | -8.8 |
| +70 | 12.1 | -8.2 | <u>11:15</u> +50 | 12.9 | -9.0 |

STA. W 196+00
0400 = STA. W. 196+00 ON STA. N 125+00

SOUND SOUTH

| DIST | SOUND | | DIST | SOUND | Pt |
|----------------------|-------|------|---------------------|-------|------|
| <u>11:25</u> 1+00 | 2.9 | +0.9 | +80 | 11.2 | -7.4 |
| (3.8) | 2.9 | — | (3.8) | 11.4 | -7.6 |
| | 2.9 | — | 2+00 | 11.9 | -8.1 |
| | 2.9 | — | | 11.9 | — |
| | 3.0 | +0.8 | | 12.0 | -8.2 |
| +50 | 9.3 | -5.5 | | 12.2 | -8.4 |
| | 10.8 | -7.0 | | 12.2 | — |
| +70 | 11.1 | -7.3 | <u>11:27</u> +50 | 12.2 | — |

STA W 194+00 8-31-48 (59)
0400 = STA. W. 194+00 ON N 125+00

SOUND SOUTH

| DIST | SOUND | | DIST | SOUND | Pt |
|----------------------|-------|------|-------|-------|------|
| <u>11:02</u> 1+00 | 3.2 | +0.8 | +80 | 11.8 | -7.8 |
| +10 | 3.3 | +0.7 | (4.0) | 11.8 | — |
| (4.0) | 3.1 | +0.9 | 3+00 | 11.9 | -7.9 |
| | 3.2 | +0.8 | | 12.4 | -8.4 |
| | 3.3 | +0.7 | | 11.7 | -7.7 |
| +50 | 9.5 | -5.5 | | 11.5 | -7.5 |
| | 11.9 | -7.9 | | 11.3 | -7.3 |
| | 12.0 | -8.0 | +50 | 10.9 | -6.9 |
| | 12.0 | — | | 10.9 | — |

| | | | | | |
|------|------|------|--------------|------|------|
| | 12.2 | -8.2 | | 11.0 | -7.0 |
| 2+00 | 12.0 | -8.0 | | 10.8 | -6.8 |
| | 12.0 | — | | 10.6 | -6.1 |
| | 12.1 | -8.1 | 4+00 | 8.8 | -4.8 |
| | 12.5 | -8.5 | | 6.9 | -2.9 |
| | 12.5 | — | | 5.1 | -1.1 |
| +50 | 12.5 | — | <u>11:06</u> | 3.9 | +0.1 |
| | 12.3 | -8.3 | | 2.5 | +1.5 |
| +70 | 11.9 | -7.9 | | | |

STA N 123+70

8-31-48

0400 = STA N 123+70 ON STA W. 197+00

SOUND WEST

| DIST | SOUND | |
|--------------|-------|------|
| 0400 | 5.0 | -1.1 |
| <u>11:44</u> | | |
| +10 | 8.2 | -4.6 |
| <u>(3.6)</u> | 10.5 | -6.9 |
| | 11.9 | -7.3 |
| | 12.0 | -8.1 |
| +50 | 11.9 | -8.3 |
| | 11.9 | -8.3 |
| | 12.0 | -8.1 |
| | 12.0 | -8.1 |
| | 12.0 | -8.1 |
| 1400 | 12.0 | -8.1 |
| <u>11:46</u> | 12.1 | -8.5 |

SOUND EAST

| DIST | SOUND | |
|--------------|-------|------|
| <u>10:48</u> | | |
| +10 | 2.7 | +0.9 |
| <u>(3.6)</u> | 2.6 | +1.0 |
| | 2.6 | +1.0 |
| | 2.7 | +0.9 |
| +50 | | |

STA N 123+40

8-31-48

0400 = PT 100' EAST STA N 123+40 WEST (60)

SHORE BASELINE

| DIST | SOUND | | DIST | SOUND | |
|------|-------|--|--------------|-------|-------|
| | | | <u>13:28</u> | | |
| | | | +49 | 0.0 | +3.0 |
| | | | +50 | 0.7 | +2.3 |
| | | | <u>(3.0)</u> | 3.0 | 0.0 |
| | | | +40 | 13.8 | -10.8 |
| | | | | 4.5 | -1.5 |
| | | | | 5.6 | -2.6 |
| | | | | 5.6 | -2.6 |
| | | | 1400 | 7.4 | -4.4 |
| | | | | 8.0 | -5.0 |
| | | | | 8.6 | -5.6 |
| | | | | 10.3 | -7.3 |
| | | | | 10.5 | -7.5 |
| | | | +50 | 10.6 | -7.6 |
| | | | | 11.1 | -8.1 |
| | | | | 11.9 | -8.9 |
| | | | | 12.0 | -9.0 |
| | | | | 12.1 | -9.1 |
| | | | 2400 | 12.7 | -9.7 |
| | | | | 10.2 | |
| | | | +10 | 13.2 | -9.2 |

STA N 123+70 8-31-48

0+00 = PT. 100' EAST STA N 123+70 WEST

SHORE BASELINE

SOUND EAST

| DIST | SOUND | | DIST | SOUND | |
|-------|-------|------|-------|-------|------|
| 13:34 | | | (3.0) | | |
| 0+62 | 0.0 | +3.0 | +40 | 11.3 | -8.3 |
| +70 | 3.0 | 0.0 | +50 | 11.5 | -8.5 |
| (3.0) | 4.0 | -1.0 | 13:37 | | |
| | 6.0 | -3.0 | | | |
| 1+00 | 7.0 | -4.0 | | | |
| | 7.9 | -4.9 | | | |
| | 9.1 | -6.1 | | | |
| | 11.0 | -8.0 | | | |
| | 11.0 | — | | | |
| +50 | 11.2 | -8.2 | | | |
| | 11.3 | -8.3 | | | |
| | 11.2 | -8.2 | | | |
| | 11.4 | -8.4 | | | |
| | 11.9 | -8.9 | | | |
| 2+00 | 12.0 | -9.0 | | | |
| | 12.0 | — | | | |
| | 11.7 | -8.7 | | | |
| +30 | 11.6 | -8.6 | | | |

PX

STA. N 123+00 8-31-48

0+00 = PT. 100' E, STA N 123+00 WEST

SHORE BASELINE

SOUND EAST

PX (61)

| DIST | SOUND | | DIST | SOUND | |
|-------|-------|------|-------|-------|------|
| 13:50 | | | (2.9) | | |
| +48 | 0.0 | +2.9 | +20 | 11.9 | -9.0 |
| +50 | 0.6 | +2.3 | 13:52 | 11.9 | — |
| (2.9) | 3.2 | -0.3 | | | |
| | 4.5 | -1.6 | | | |
| | 5.1 | -2.2 | | | |
| | 6.1 | -3.2 | | | |
| 1+00 | 7.2 | -4.3 | | | |
| | 8.5 | -5.6 | | | |
| | 8.9 | -6.0 | | | |
| | 9.3 | -6.4 | | | |
| | 10.6 | -7.7 | | | |
| +50 | 11.3 | -8.1 | | | |
| | 12.1 | -9.2 | | | |
| | 12.7 | -9.8 | | | |
| | 12.4 | -9.5 | | | |
| | 12.8 | -9.9 | | | |
| 2+00 | 12.4 | -9.5 | | | |
| +10 | 11.9 | -9.0 | | | |

STA. N. 122+00 8-31-42
 0+00 = PT. 120' E OF STA N 122+00 WEST
 SOUND EAST SHORE B/L

| DIST | SOUND | PX | DIST | SOUND |
|---------------------|-------|-------|--------------|------------|
| <u>14:03</u> +14 | 0.0 | +2.9 | +90 | 13.2 -10.3 |
| +20 | 0.5 | +2.9 | 2+00 | 12.0 -9.1 |
| (2.9) | 3.0 | -0.1 | (2.9) | 12.0 -9.1 |
| | 4.0 | -1.1 | | 11.0 -8.1 |
| +50 | 4.5 | -1.6 | | 11.0 -8.1 |
| | 5.2 | -2.3 | | 11.5 -8.6 |
| | 7.0 | -4.1 | +50 | 11.0 -8.1 |
| | 7.0 | -4.1 | <u>14:07</u> | 10.7 -7.8 |
| | 7.3 | -4.4 | | |
| 1+00 | 11.0 | -8.1 | | |
| | 12.8 | -9.9 | | |
| | 13.9 | -11.0 | | |
| | 14.0 | -11.1 | | |
| | 14.5 | -11.6 | | |
| +50 | 14.5 | -11.6 | | |
| | 14.4 | -11.5 | | |
| | 13.7 | -10.8 | | |
| +80 | 13.4 | -10.5 | | |

STA N 122+00 9-1-48 (62)
 0+00 = STA N 122+00 ON P/B5 B/L
 SOUND WEST

| DIST | SOUND | DIST | SOUND |
|---------------------|-------|------|-------|
| <u>14:02</u> +80 | 10.6 | -7.8 | |
| | 10.7 | -7.9 | |
| | 10.7 | -7.9 | |
| | 10.6 | -7.8 | |
| | 10.7 | -7.9 | |
| +50 | 10.8 | -8.0 | |
| | 11.1 | -8.3 | |
| | 10.3 | -7.5 | +50 |
| (2.8) | 10.4 | -7.6 | |
| | 11.3 | -8.5 | (2.8) |
| 6+00 | 11.5 | -8.7 | |
| | 11.3 | -8.5 | |
| | 11.4 | -8.6 | 8+00 |
| | 11.3 | -8.5 | |
| | 11.3 | - | |
| +50 | 11.0 | -8.2 | |
| | 11.4 | -8.6 | |
| +70 | 11.2 | -8.4 | +50 |

STAN. 22+00 CONT

| DIST | SOUND | DIST | SOUND |
|--------------|-------|------|-------|
| 14:04 +60 | 11.0 | -8.3 | |
| R | 11.0 | — | |
| | 10.9 | -8.2 | |
| | 10.6 | -7.9 | |
| 9+00 | 10.4 | -7.7 | |
| | 10.0 | -7.3 | |
| (2.7) | 10.3 | -7.6 | |
| | 10.1 | -7.4 | |
| 14:05 | 10.2 | -7.5 | |
| +50 | | | |

10+00

STAN. 193+00 9-1-48 (63)

0+00 = STAN. 193+00 ON STA N. 125+00

SOUND SOUTH

| DIST | SOUND | DIST | SOUND |
|---------------|-------|------|-------|
| 14:20 2+50 | 12.2 | -9.6 | +30 |
| | 12.2 | — | |
| | 12.1 | -9.5 | +50 |
| (2.6) | 10.5 | -7.9 | |
| | 10.5 | — | |
| 3+00 | 10.4 | -7.8 | |
| | 10.5 | -7.9 | |
| +20 | 10.4 | -7.8 | |
| | 10.5 | -7.9 | |
| | 10.7 | -8.1 | |
| +50 | 10.9 | -8.3 | |
| | 11.0 | -8.4 | |
| | 10.8 | -8.2 | |
| 14:22 | 10.2 | -7.6 | |
| 4+00 | | | |
| +20 | | | |

STA W 195+00 9-1-48
 0+00 = STA W 195+00 ON N. 1/2 ⁵+00
 SOUND SOUTH

| DIST | SOUND | DIST | SOUND |
|---------------|------------|---------------|------------|
| 14:31 2+50 | 11.2 - 8.6 | +30 | 10.0 - 7.1 |
| R | 11.5 - 8.9 | | 10.1 - 7.5 |
| | 11.7 - 9.1 | +50 | 10.3 - 7.7 |
| (2.6) | 11.1 - 8.5 | | 10.9 - 8.3 |
| | 11.1 — | (2.6) | 10.8 - 8.2 |
| 3+00 | 11.2 - 8.6 | | 10.6 - 8.0 |
| | 11.2 — | | 10.5 - 7.9 |
| +20 | 10.9 - 8.3 | 14:33 4+00 | 10.2 - 7.6 |

STA. W 196+00
 0+00 = STA W. 196+00 ON STA N. 1/2 ⁵+00
 SOUND SOUTH

| DIST | SOUND | DIST | SOUND |
|---------------|------------|--------------|------------|
| 14:40 2+50 | 10.9 - 8.4 | +30 | 9.8 - 7.3 |
| R | 10.8 - 8.3 | | 9.5 - 7.0 |
| | 10.0 - 7.5 | +50 | 9.8 - 7.3 |
| (2.5) | 9.5 - 7.0 | (2.5) | 9.7 - 7.2 |
| | 10.1 - 7.6 | | 9.7 — |
| 3+00 | 10.1 — | | 9.8 - 7.3 |
| | 10.7 - 8.2 | 14:44 | 10.2 - 7.7 |
| +20 | 10.5 - 8.0 | 4+00 | 10.8 - 8.3 |

STA. W 199+00 9-1-48 (61)
 0+00 = 160' E OF W. SHORE. BIL STA 121+00

| SOUND | NORTH | DIST | SOUND |
|---------------|------------|--------------------------|------------|
| 15:07 0+00 | 5.0 - 2.5 | | |
| | 5.7 - 3.2 | +90 | 10.3 - 7.8 |
| PX | 7.0 - 4.5 | 2+00 | 10.4 - 7.9 |
| | 7.2 - 4.7 | | 10.4 — |
| | 8.6 - 6.1 | | 10.3 - 7.8 |
| +50 | 8.6 — | | 10.2 - 7.7 |
| | 8.7 - 6.2 | +50 | 10.1 - 7.6 |
| | 8.1 - 5.6 | | 10.4 - 7.9 |
| (2.5) | 7.1 - 4.6 | (2.5) | 10.8 - 8.3 |
| | 6.7 - 4.2 | | 11.0 - 8.5 |
| 1+00 | 6.5 - 4.0 | | 11.1 - 8.6 |
| | 7.2 - 4.7 | 3+00 | 11.2 - 8.7 |
| | 7.7 - 5.2 | | 11.0 - 8.5 |
| | 7.6 - 5.1 | 15:12 7:40 | 11.0 - 8.5 |
| | 7.7 - 5.2 | | |
| +50 | 9.0 - 6.5 | | |
| | 10.3 - 7.8 | | |
| | 10.5 - 8.0 | | |
| +80 | 9.8 - 7.3 | | |

STA N 121+00 9-1-48

0+00 = STA N 121+00 W. SHORE B/L

SOUND EAST

DIST. SOUND DIST SOUND

15:19

1+44 0.0 +2.5

1+50 2.0 +0.5

1+60 5.0 -2.5

7.0 -4.5

8.3 -5.8

(2.5) 9.1 -6.6

2+00 9.9 -7.1

10.2 -7.7

10.1 -7.6

10.0 -7.5

10.4 -7.9

450 10.6 -8.1

10.5 -8.0

10.6 -8.1

10.6 —

15:21 10.6 —

3+00 10.6 —

+10 10.8 -8.3

PX

9-3-48

FINAL X SEC PROJ #9

(65)

STA 123+85 0+00 = W. SHORE B/L

STA + 4.1 - ELEV.

TRM 5.16 13.61 8.45

S. WALK
STA 124

E 25 5.6 8.0

E 54 5.5 8.1

E 91 5.4 8.2

E 116 6.7 6.9

E 133 8.9 4.5

SET STK
130' E

DIST SOUND DIST SOUND

1+30 40 12.8 -8.4

3:09 40 0.0 +7.4 50 12.8 —

50 0.5 +3.9 13:11 60 12.8 —

60 1.6 +2.8 70

(4.4) 70 2.5 +1.9 (4.9) 80

80 5.0 -0.6 90

90 6.8 -2.4 3+00

2+00 8.0 -3.6

10 10.0 -5.6

20 10.5 -6.1

30 12.6 -8.2

PX

9-3-48

FINALX-SEC. CONTD

STA 124+00 0+00=W. SHOREB/L

| STA | T | H. I | + | ELEV |
|------------------|-----------|-------|--------------------------|---------------------|
| B.M. | 5.05 | 13.50 | | 8.45 (X) 124+00 |
| E 13 | | | 5.3 | 8.2 |
| E 51 | | | 5.3 | 8.2 PX |
| E 90 | | | 5.2 | 8.3 |
| E 123 | | | 6.1 | 7.4 |
| E 142 | | | 8.6 | 4.9 SET STK 140'E |
| DIST | SOUND | | DIST | SOUND |
| 1+40 | | | 50 | 12.3 -8.0 |
| 13:12 | | | 4.3 60 | 12.5 -8.2 |
| 50 | 0.0 +4.3 | | 13:14 70 | 12.9 -8.6 |
| 60 | 0.9 +3.4 | | 10:33 80 | 14.1-9.0 50 4.1+1.0 |
| 70 | 2.6 +1.7 | | 90 | 14.3-9.2 60 4.0+1.0 |
| 80 | 4.3 0.0 | | 3+00 17.1-9.0 70 4.0+1.0 | |
| (7.3) 90 | 5.2 -0.9 | | 10 14.0-8.9 10:36 | |
| 2+00 | 6.8 -2.5 | | 20 13.7-8.6 | |
| 10 | 9.9 -5.6 | | (5.1) 30 13.7 -8.6 | |
| 20 | 10.4 -6.1 | | 40 13.5 -8.4 | |
| 30 | 11.2 -6.9 | | 50 13.5 -8.4 | |
| 40 | 12.6 -8.3 | | 60 13.7 -8.6 | |
| | | | 70 13.9 -8.8 | |
| | | | 80 13.9 -8.8 | |
| | | | 90 13.8 -8.7 | |
| | | | 4+00 13.8 -8.7 | |
| | | | 10 13.7 -8.6 | |
| | | | 20 12.9 -7.8 | |
| | | | 30 7.0 -1.9 | |
| | | | 40 4.3 +0.6 | |

9-3-48

(66)

STA 124+10 -0+00=W. SHOREB/L

| STA | T | H. I | - | ELEV. |
|------------|-----------|-------|------------|-------------------|
| B.M. | 5.01 | 13.46 | | 8.45 (X) 124 |
| E 28 | | | 5.2 | 8.3 PX |
| E 64 | | | 5.3 | 8.2 |
| E 107 | | | 5.3 | 8.2 |
| E 128 | | | 6.0 | 7.5 |
| E 148 | | | 8.8 | 4.7 SET STK 150'E |
| DIST | SOUND | | DIST | SOUND |
| 13:15 1+50 | 0.0 +4.3 | | 70 | 12.8 -8.5 |
| 60 | 0.8 +3.5 | | 80 | 13.0 -8.7 |
| 70 | 2.8 +1.5 | | 90 | 13.3 -9.0 |
| 80 | 4.4 -0.1 | | 13:17 3+00 | |
| 90 | 5.8 -1.5 | | 10 | |
| 2+00 | 7.0 -2.7 | | 20 | |
| (7.3) 10 | 8.9 -4.6 | | (4.3) 30 | |
| 20 | 11.2 -6.9 | | 40 | |
| 30 | 12.1 -7.8 | | 50 | |
| 40 | 12.3 -8.0 | | 60 | |
| 50 | 12.5 -8.2 | | 70 | |
| 60 | 12.3 -8.0 | | 80 | |

0400 = W. SHORE B/L
9-3-48

FINAL X-SEC CONTD

STA 124+25

| STA | + | H.I. | - | ELEV. |
|-------|------|-------|-----|--------------------|
| BM | 5.09 | 13.54 | | 8.45 (124+00) |
| E 20 | | | 5.5 | 8.0 |
| E 62 | | | 5.4 | 8.1 <i>PK</i> |
| E 95 | | | 5.3 | 8.2 |
| E 121 | | | 5.8 | 7.7 |
| E 151 | | | 8.8 | 4.7 SET STK 150' E |

| DIST | SOUND | | DIST | SOUND | |
|---------------|-------|------|-------------|-------|------|
| 13:20 1+57 | 0.0 | +4.2 | 70 | 12.7 | -8.5 |
| 60 | 0.6 | +3.6 | 80 | 12.9 | -8.7 |
| 70 | 2.7 | +1.5 | 90 | 13.0 | -8.8 |
| 80 | 4.5 | -0.3 | 3+00 | 13.0 | |
| (4.2) 90 | 6.0 | -1.8 | 13:21 10 | | |
| 2+00 | 7.1 | -2.9 | (4.2) 20 | | |
| 10 | 8.5 | -4.3 | 30 | | |
| 20 | 10.0 | -5.8 | 40 | | |
| 30 | 11.2 | -7.0 | 50 | | |
| 40 | 12.3 | -8.1 | 60 | | |
| 50 | 12.1 | -7.9 | 70 | | |
| 60 | 12.0 | -7.8 | 80 | | |

9-3-48 0400 = W. SHORE (67)
STA 124+40 B/L

| STA | + | H.I. | - | ELEV |
|-------|------|-------|-----|--------------------|
| BM. | 4.95 | 13.40 | | 8.45 (124+00) |
| E 18 | | | 5.2 | 8.2 |
| E 55 | | | 5.2 | 8.2 <i>PK</i> |
| E 95 | | | 5.1 | 8.3 |
| E 116 | | | 6.3 | 7.1 |
| E 146 | | | 8.4 | 5.0 SET STK 150' E |

| DIST | SOUND | | DIST | SOUND | |
|----------------|-------|------|-------------|-------|------|
| 13:23 1-151 | 0.0 | +4.2 | 70 | 12.0 | -7.8 |
| 60 | 1.9 | +2.3 | 80 | 12.4 | -8.2 |
| 70 | 3.0 | +1.2 | 90 | 13.0 | -8.8 |
| (4.2) 80 | 4.1 | +0.1 | 3+00 | 13.1 | -8.9 |
| 90 | 5.8 | -1.6 | 13:25 10 | | |
| 2+00 | 6.8 | -2.6 | (4.2) 20 | | |
| 10 | 10.6 | -6.4 | 30 | | |
| 20 | 11.0 | -6.8 | 40 | | |
| 30 | 11.7 | -7.5 | 50 | | |
| 40 | 11.6 | -7.4 | 60 | | |
| 50 | 11.5 | -7.3 | 70 | | |
| 60 | 11.9 | -7.7 | 80 | | |

0400 = W SHORE B/L 9-3-48

STA 123.00
FINAL X-SECTION

| STA | + | HI | - | ELEV | |
|-------|------|--------------------|-----|------|----------|
| BM | 5.04 | 13.49 ⁵ | | 8.45 | 123+00 ⊕ |
| E 24 | | | 5.6 | 7.9 | |
| E 55 | | | 5.4 | 8.1 | |
| E 68 | | | 5.9 | 7.6 | |
| E 82 | | | 6.0 | 7.5 | |
| E 105 | | | 7.8 | 5.7 | |
| E 125 | | | 9.5 | 4.0 | |

STA 122+00 FINAL X SEC
0400 = W SHORE B/L

| STA. | + | HI | - | ELEV | |
|-------|------|--------------------|-----|------|----------|
| BM | 5.02 | 13.35 ⁴ | | 8.33 | 122+00 ⊕ |
| E 28 | | | 5.2 | 8.2 | |
| E 71 | | | 5.6 | 7.8 | |
| E 77 | | | 6.1 | 7.3 | |
| E 100 | | | 7.9 | 5.5 | |
| E 115 | | | 9.3 | 4.1 | |

STA. 121+00 9-3-48 (68)
FINAL X SEC. PROJ #9
0400 = W SHORE B/L

| STA. | + | HI | - | ELEV. | |
|-------|-----|--------------------|-----|-------|----------|
| BM | 4.8 | 12.49 ⁵ | | 8.41 | 121+00 ⊕ |
| E 30 | | | 4.9 | 7.6 | |
| E 61 | | | 5.2 | 7.3 | |
| E 76 | | | 6.0 | 6.5 | |
| E 97 | | | 7.6 | 4.9 | |
| E 118 | | | 9.4 | 3.1 | |

STA 120+00 9-3-48
FINAL X-SECTION PROJ #9

| STA. | + | HI | - | ELEV | |
|-------|------|--------------------|-----|------|----------|
| BM | 4.78 | 13.19 ² | | 8.41 | 121+00 ⊕ |
| E 11 | | | 4.9 | 8.3 | |
| E 43 | | | 4.7 | 8.5 | |
| E 69 | | | 4.8 | 8.4 | |
| E 85 | | | 6.1 | 7.1 | |
| E 111 | | | 9.3 | 3.9 | |
| E 116 | | | 9.7 | 3.5 | |

9-3-48 0+00 = W SHORE
STA 125+00 B/L.

| STA | H.I | - | ELEV |
|-------|------|-------|----------------------|
| B.M. | 5.27 | 13.71 | 8.44 @ 125+00 |
| E 17 | | 5.3 | 8.4 PX |
| E 52 | | 5.3 | 8.4 |
| E 73 | | 6.5 | 7.2 |
| E 97 | | 9.2 | 4.5 |
| E 131 | | 10.1 | 3.6 SET STK 130'E |

| DIST | SOUND | DIST | SOUND |
|--------------|----------------|-------|-----------|
| 1+30 | 2.1 | +50 | 14.2 -9.0 |
| 10:38 +40 | 2.1 +3.1 | 60 | 14.3 -9.1 |
| | | 70 | 14.2 -9.0 |
| | | 80 | 14.0 -8.8 |
| +50 | 3.8 +1.9 | 90 | 14.4 -9.2 |
| | | 3+00 | 14.8 -9.6 |
| | 5.2 0.0 | 10 | 14.3 -9.1 |
| | | 20 | 14.0 -8.8 |
| | 6.9 -1.7 | 30 | 13.9 -8.7 |
| (5.2) | 6.9 -1.7 | 40 | 14.0 -8.8 |
| | | 50 | 13.9 -8.7 |
| | 7.4 -2.2 (5.2) | 60 | 13.8 -8.6 |
| | | 70 | 13.6 -8.4 |
| | | 80 | 13.4 -8.2 |
| 2+00 | 10.3 -5.1 | 90 | 13.0 -7.8 |
| | | 4+00 | 10.2 -5.0 |
| | 11.0 -5.8 | 10 | 4.5 +0.7 |
| | | 20 | 4.0 +1.2 |
| | 13.3 -8.1 | 30 | 3.0 +2.2 |
| | | 40 | 3.1 +2.1 |
| | 14.4 -9.2 | 50 | 3.4 +1.8 |
| +40 | 14.3 -9.1 | 10:42 | |

9-3-48 (23)
STA 126+00 0+00 = W. SHORE B/L

| STA | H.I | - | ELEV |
|-------|------|-------|----------------------|
| | 5.14 | 13.61 | 8.47 @ 126+00 |
| E 12 | | 5.1 | 8.5 PX |
| E 52 | | 5.0 | 8.6 |
| E 75 | | 6.5 | 7.1 |
| E 97 | | 8.7 | 4.9 |
| E 107 | | 10.0 | 3.6 SET STK 110'E |

| DIST | SOUND | DIST | SOUND |
|---------------|-----------|----------|-----------|
| 10:48 1+10 | 2.0 +2.3 | +30 | 13.0 -7.7 |
| | | 40 | 13.4 -8.1 |
| +30 | 3.2 +2.1 | 50 | 13.7 -8.4 |
| | | 60 | 14.0 -8.7 |
| | 4.9 +0.4 | 70 | 14.0 -8.7 |
| | | 80 | 14.5 -9.2 |
| | 6.9 -1.6 | 90 | 14.5 -9.2 |
| | | 3+00 | 14.9 -9.6 |
| +50 | 7.9 -2.6 | 10 | 14.3 -9.0 |
| | | 20 | 14.1 -8.8 |
| | 8.2 -2.9 | 30 | 14.0 -8.7 |
| (5.3) | 7.8 -2.5 | 40 | 13.9 -8.6 |
| | | 50 | 13.7 -8.4 |
| | | (5.3) 60 | 13.6 -8.3 |
| | 7.3 -2.0 | 70 | 13.6 -8.3 |
| | | 80 | 13.0 -7.7 |
| | 8.3 -3.0 | 90 | 12.2 -6.9 |
| 2+00 | 10.9 -5.6 | 4+00 | 8.0 -2.7 |
| | | 10 | 3.3 +2.0 |
| | | 20 | 3.5 +1.8 |
| | 12.0 -6.7 | 30 | 3.8 +1.5 |
| +20 | 13.0 -7.7 | 40 | 3.9 +1.4 |
| | | 50 | 3.8 +1.5 |
| | | 10:55 | |

9-3-48 - FINAL X-SEC.

STA 127+00 0+00 = W. SHORE

| STA | + | H.I | - | ELEV |
|-------|------|-------|-----|-------------------|
| B.M. | 4.97 | 13.40 | | 8.43 (X) 127+00 |
| E 15 | | | 5.3 | 8.1 PT |
| E 50 | | | 4.9 | 8.5 |
| E 75 | | | 6.2 | 7.2 |
| E 93 | | | 8.2 | 5.2 |
| E 110 | | | 9.8 | 3.6 SET STR 110'E |

| DIST | SOUND | DIST | SOUND |
|-------|-----------|----------|-----------|
| 11:01 | | | |
| 1+20 | 3.1 +2.3 | 60 | 14.1 -8.7 |
| | | 70 | 14.3 -8.9 |
| | 3.8 +1.6 | 80 | 14.6 -9.2 |
| | | 90 | 14.5 -9.1 |
| | 5.0 +0.4 | 3+00 | 14.7 -9.3 |
| | | 10 | 14.8 -9.4 |
| +50 | 8.0 -2.6 | 20 | 14.5 -9.1 |
| | | 30 | 14.1 -8.7 |
| (5.4) | 9.3 -3.9 | 40 | 14.2 -8.8 |
| | | 50 | 14.0 -8.6 |
| | 9.6 -4.2 | (5.4) 60 | 14.2 -8.8 |
| | | 70 | 14.2 -8.8 |
| | 9.0 -3.6 | 80 | 14.0 -8.6 |
| | | 90 | 12.8 -7.6 |
| | 9.6 -4.2 | 4+00 | 6.0 -0.6 |
| | | 10 | 4.1 +1.3 |
| 2+00 | 9.6 -4.2 | 20 | 4.2 +1.2 |
| 10 | 12.0 -6.6 | 30 | 4.2 +1.2 |
| 20 | 12.9 -7.5 | 40 | 4.4 +1.0 |
| 30 | 13.0 -7.6 | 50 | 4.8 +0.6 |
| 40 | 13.2 -7.8 | 60 | 5.0 +0.4 |
| 50 | 13.7 -8.3 | | |

9-3-48

(20)

STA 128+00 - 0+00 = W. SHORE S/L

| STA | + | H.I | - | ELEV |
|------|------|-------|-----|-------------------|
| B.M. | 4.97 | 13.42 | | 8.45 (X) 128+00 |
| E 20 | | | 5.0 | 8.4 PT |
| E 46 | | | 5.3 | 8.1 |
| E 76 | | | 7.6 | 5.8 |
| 102 | | | 9.8 | 3.6 SET STR 100'E |

| DIST | SOUND | DIST | SOUND | |
|----------|----------|----------|-----------|-----------|
| 11:13 | | | | |
| 1+40 | 2.6 +3.0 | 30 | 13.5 -7.9 | |
| | | 40 | 13.8 -8.2 | |
| 20 | 4.0 +1.6 | 50 | 13.8 -8.2 | |
| | | 60 | 13.9 -8.3 | |
| | 30 | 4.9 +0.7 | 70 | 13.9 -8.3 |
| | | 80 | 14.0 -8.4 | |
| | 40 | 6.5 -0.9 | 90 | 14.4 -8.8 |
| | | 50 | 9.4 -3.8 | |
| | | 3+00 | 14.2 -8.6 | |
| | | 10 | 14.0 -8.4 | |
| | | 20 | 14.0 -8.4 | |
| (5.6) 60 | 9.9 -4.3 | 30 | 14.1 -8.5 | |
| | | 40 | 14.1 -8.5 | |
| | 70 | 9.9 - | 50 | 14.1 -8.5 |
| | | 80 | 10.1 -4.5 | |
| | | 80 | 10.1 -4.5 | |
| | | 20 | 9.9 -4.3 | |
| | | 3+00 | 6.4 -0.8 | |
| | | 10 | 5.1 +0.5 | |
| | | 20 | 5.1 +0.5 | |
| | | 30 | 5.5 +0.1 | |
| | | 40 | 5.2 +0.4 | |
| | | 20 | 13.5 -7.9 | |
| | | 50 | 5.5 +0.1 | |
| | | 60 | 5.3 +0.3 | |
| | | 70 | 5.3 +0.3 | |

9-3-48 FINAL X-SEC
 STA 129+00-0+00=W SHORE B/L

| STA | T | H.I | - | ELEV |
|------|------|-------|------|--------------------|
| B.M. | 5.22 | 13.65 | | 8.43 ⊕ 129+00 |
| E 26 | | | 5.5 | 8.1 R ⁺ |
| E 56 | | | 6.6 | 7.0 |
| E 76 | | | 8.6 | 6.0 |
| E 89 | | | 10.0 | 3.6 90° E |

| DIST | SOUND | DIST | SOUND |
|-------|-----------|----------|-----------|
| 11:23 | | | |
| 1+00 | 2.7 +2.9 | 40 | 13.5 -7.9 |
| | | 50 | 13.4 -7.8 |
| | 3.1 +2.5 | 60 | 13.7 -8.1 |
| | | 70 | 13.9 -8.3 |
| | 4.6 +1.0 | 80 | 14.2 -8.6 |
| | | 90 | 14.4 -8.8 |
| | 5.4 +0.2 | 3+00 | 14.3 -8.7 |
| | | 10 | 14.5 -8.9 |
| | 6.2 -0.6 | 20 | 14.9 -9.3 |
| | | 30 | 14.9 -9.3 |
| +50 | 7.5 -1.9 | 40 | 14.9 -9.3 |
| | | 50 | 14.7 -9.1 |
| 3.6 | 9.5 -3.9 | 60 | 14.5 -8.9 |
| | | 70 | 14.0 -8.4 |
| | 11.5 -5.9 | 80 | 12.5 -6.9 |
| | | 90 | 6.0 -0.4 |
| | 11.4 -5.8 | 4+00 | 5.5 +0.1 |
| | | 10 | 5.6 0.0 |
| | 11.5 -5.9 | 20 | 5.9 -0.3 |
| | | 30 | 5.8 -0.2 |
| 2+00 | 12.9 -7.3 | 40 | 5.8 -0.2 |
| 10 | 13.4 -7.8 | 11:27 50 | 5.8 -0.2 |
| 20 | 13.5 -7.9 | 60 | |
| 30 | 13.5 -7.9 | 70 | |

9-30-48 (71)
 STA 130+00-0+00=W SHORE B/L

| STA | T | H.I | - | ELEV |
|--------|------|-------|-----|--------------------|
| B.M. | 4.67 | 13.10 | | 8.43 ⊕ 130+00 |
| E 0+14 | | | 5.0 | 8.1 R ⁺ |
| E 0+35 | | | 4.7 | 8.4 |
| E 0+53 | | | 6.0 | 7.1 |
| E 0+72 | | | 7.8 | 5.3 |

| DIST | SOUND | DIST | SOUND |
|--------|-----------|-------|-----------|
| | | | |
| 11:31 | | | |
| 1+00 | 3.2 +2.5 | 50 | 14.8 -9.1 |
| | | 60 | 14.8 -9.1 |
| 10 | 4.7 +1.0 | 70 | 14.7 -9.0 |
| | | 80 | 14.8 -9.1 |
| 20 | 5.8 -0.1 | 90 | 14.8 -9.1 |
| | | 3+00 | 14.3 -8.6 |
| 30 | 6.2 -0.5 | 10 | 14.2 -8.5 |
| | | 20 | 14.3 -8.6 |
| 40 | 7.2 -1.5 | 30 | 14.2 -8.5 |
| | | 40 | 13.8 -8.1 |
| 50 | 8.7 -3.0 | 50 | 14.1 -8.4 |
| | | 60 | 14.1 -8.4 |
| 5.7 60 | 9.8 -4.1 | 70 | 14.1 -8.4 |
| | | 80 | 14.1 -8.4 |
| 70 | 10.4 -4.7 | 90 | 11.1 -5.4 |
| | | 4+00 | 11.0 -5.3 |
| 80 | 11.1 -5.4 | 10 | 10.0 -4.3 |
| 90 | 13.0 -7.3 | 20 | 8.4 -2.7 |
| 2+00 | 14.1 -8.4 | 30 | 6.5 -0.8 |
| 10 | 14.2 -8.5 | 40 | 5.5 +0.2 |
| 20 | 14.2 -8.5 | 50 | 5.6 +0.1 |
| 30 | 14.4 -8.7 | 60 | 5.8 -0.1 |
| 40 | 14.6 -8.9 | 70 | 5.7 0.0 |
| | | 11:37 | |

9-3-48

STA 131+00 - 0+00 = W. SHORE B/L

| STA | + | H.I. | - | ELEV |
|------------------------|------|-------|-----|------|
| B.M. | 4.45 | 12.88 | | 8.43 |
| ^W E 0+00 | | | 4.9 | 8.0 |
| E 15 | | | 4.8 | 8.1 |
| E 43 | | | 5.1 | 7.8 |
| E 60 | | | 6.8 | 6.1 |
| E 80 | | | 8.9 | 4.0 |
| E 90 | | | 9.8 | 3.1 |

| DIST | SOUND | DIST | SOUND |
|---------------|-----------|----------|-----------|
| 11:45 1+00 | 3.5 +2.3 | 80 | 14.9 -9.1 |
| 10 | 4.3 +1.5 | 90 | 14.9 -9.1 |
| 20 | 5.1 +0.7 | 3+00 | 15.0 -9.2 |
| 30 | 5.1 +0.7 | 10 | 15.0 -9.2 |
| 40 | 7.1 -1.3 | 20 | 14.9 -9.1 |
| 50 | 8.2 -2.4 | 30 | 14.7 -8.9 |
| 60 | 8.2 -2.4 | 40 | 14.5 -8.7 |
| (5.8) 70 | 10.2 -4.4 | 50 | 13.4 -7.6 |
| 80 | 11.0 -5.2 | 60 | 8.5 -2.7 |
| 90 | 14.5 -8.7 | (5.8) 70 | 6.7 -0.9 |
| 2+00 | 14.9 -9.1 | 80 | 6.9 -1.1 |
| 10 | 15.0 -9.2 | 90 | 7.0 -1.2 |
| 20 | 14.9 -9.1 | 4+00 | 6.9 -1.1 |
| 30 | 14.8 -9.0 | 10 | 6.4 -0.6 |
| 40 | 14.8 -9.0 | 20 | 6.2 -0.4 |
| 50 | 14.8 -9.0 | 30 | 6.1 -0.3 |
| 60 | 14.9 -9.1 | 40 | 6.1 -0.3 |
| 70 | 14.9 -9.1 | 50 | 6.0 -0.2 |
| | | 60 | 5.9 -0.1 |
| | | 70 | 5.8 0.0 |
| | | 80 | |

11:49

9-3-48

(72)

STA 132+00 - 0+00 = W. SHORE B/L

| STA | + | H.I. | - | ELEV. |
|------|-----|-------|-----|-------|
| B.M. | 4.5 | 12.90 | | 8.40 |
| 0+00 | | | 4.5 | 8.4 |
| E 36 | | | 4.6 | 8.3 |
| E 48 | | | 5.6 | 7.3 |
| E 66 | | | 7.6 | 5.3 |
| E 89 | | | 9.7 | 3.2 |

| DIST | SOUND | DIST | SOUND |
|---------------|---------------|----------|-----------|
| 11:56 1+00 | 3.8 +2.0 * 10 | 14.3 | -8.5 |
| 10 | 4.9 +0.9 | 20 | 14.0 -8.2 |
| 20 | 6.8 -1.0 | 30 | 14.0 -8.2 |
| 30 | 8.0 -2.2 | 40 | 12.9 -7.1 |
| 40 | 8.7 -2.9 | 50 | 8.4 -2.6 |
| 50 | 9.2 -3.4 | 60 | 9.0 -3.2 |
| 60 | 9.8 -4.0 | 70 | 10.1 -4.3 |
| (5.8) 70 | 10.9 -5.1 | 80 | 10.9 -5.1 |
| 80 | 14.0 -8.2 | 90 | 11.0 -5.2 |
| 90 | 14.2 -8.4 | 4+00 | 11.5 -5.7 |
| 2+00 | 14.6 -8.8 | 10 | 11.4 -5.6 |
| 10 | 14.6 -8.8 | (5.8) 20 | 11.2 -5.4 |
| 20 | 14.7 -8.9 | 30 | 11.1 -5.3 |
| 30 | 14.0 -8.2 | 40 | 11.0 -5.2 |
| 40 | 13.9 -8.1 | 50 | 10.7 -4.9 |
| 50 | 13.7 -7.9 | 60 | 10.6 -4.8 |
| 60 | 13.8 -8.0 | 70 | 10.4 -4.6 |
| 70 | 13.9 -8.1 | 80 | 9.8 -4.0 |
| 80 | 14.0 -8.2 | 90 | 9.4 -3.6 |
| 90 | 14.0 -8.2 | 5+00 | 8.7 -2.9 |
| 3+00 | 14.1 -8.3 | 12:00 | |

9-3-48

STA 133+00 - 0+00 = W. SHORE B/L

| STA | + | H.I. | - | ELEV. | ⊗ 133+00 |
|-------|------|------|------|-------|--------------------|
| B.M. | 4.80 | 13.2 | | 8.41 | |
| 0+00 | | | 5.0 | 8.2 | PT |
| E 14 | | | 4.9 | 8.3 | |
| E 42 | | | 5.2 | 8.0 | |
| E 68 | | | 7.2 | 6.0 | |
| E 94 | | | 9.6 | 3.6 | |
| E 100 | | | 10.3 | 2.9 | SET STK. 100' E |

DIST SOUND

| | | | | | |
|----------|------|------|--|--|--|
| 12:45 | | | | | |
| 1+10 | 3.7 | +1.6 | | | |
| 20 | 5.0 | +0.5 | | | |
| 30 | 6.0 | +0.5 | | | |
| 40 | 6.9 | -1.4 | | | |
| 50 | 8.0 | -2.5 | | | |
| 60 | 8.9 | -3.4 | | | |
| 70 | 10.7 | -5.2 | | | |
| (5.5) 80 | 13.0 | -7.5 | | | |
| 90 | 13.3 | -7.8 | | | |
| 2+00 | 13.2 | -7.7 | | | |
| 10 | 13.3 | -7.8 | | | |
| 20 | 13.2 | -7.7 | | | |
| 30 | 13.7 | -8.2 | | | |
| 40 | 13.4 | -7.9 | | | |
| 50 | 12.9 | -7.4 | | | |
| 60 | 13.0 | -7.5 | | | |
| 70 | 12.9 | -7.4 | | | |
| 80 | 13.1 | -7.6 | | | |
| 90 | 13.2 | -7.7 | | | |

DIST SOUND

| | | | | | |
|----------|------|------|--|--|--|
| 3+00 | 13.1 | -7.6 | | | |
| 10 | 12.8 | -7.3 | | | |
| 20 | 12.5 | -7.0 | | | |
| 30 | 11.0 | -5.5 | | | |
| 40 | 8.0 | -2.5 | | | |
| 50 | 8.7 | -3.2 | | | |
| 60 | 8.6 | -3.1 | | | |
| 70 | 8.9 | -3.4 | | | |
| (5.5) 80 | 9.2 | -3.7 | | | |
| 90 | 9.6 | -4.1 | | | |
| 4+00 | 9.9 | -4.4 | | | |
| 10 | 10.0 | -4.5 | | | |
| 20 | 10.1 | -4.6 | | | |
| 30 | 10.5 | -5.0 | | | |
| 12:49 40 | 10.6 | -5.1 | | | |
| 50 | | | | | |
| 60 | | | | | |
| 70 | | | | | |

9-3-48

②3

STA 134+00 - 0+00 = W. SHORE B/L

| STA | + | H.I. | - | ELEV. | ⊗ 134+00 |
|------|------|-------|-----|-------|-------------------|
| B.M. | 4.62 | 13.00 | | 8.38 | |
| W 4 | | | 4.9 | 8.1 | |
| 0+00 | | | 4.9 | 8.1 | PT |
| E 19 | | | 4.8 | 8.2 | |
| E 40 | | | 5.0 | 8.0 | |
| E 67 | | | 7.5 | 5.5 | |
| E 95 | | | 9.9 | 3.1 | SET STK. 90' E |

DIST SOUND

| | | | | | |
|----------|------|------|----------|------|------|
| 12:54 | | | | | |
| 1+00 | 3.4 | +1.9 | 20 | 15.0 | -9.7 |
| 10 | 6.0 | -0.7 | 3+00 | 14.9 | -9.6 |
| 20 | 6.9 | -1.6 | 10 | 13.3 | -8.0 |
| 30 | 8.0 | -2.7 | 20 | 10.0 | -4.7 |
| 40 | 11.2 | -5.9 | 30 | 9.6 | -4.3 |
| 50 | 12.8 | -7.5 | 40 | 9.5 | -4.2 |
| 60 | 13.7 | -8.4 | 50 | 9.6 | -4.3 |
| 70 | 13.8 | -8.5 | 60 | 9.5 | -4.2 |
| (5.3) 80 | 14.3 | -9.0 | 70 | 9.7 | -4.4 |
| 90 | 14.8 | -9.5 | 80 | 9.9 | -4.6 |
| 2+00 | 15.1 | -9.8 | 90 | 9.9 | |
| 10 | 14.9 | -9.6 | 4+00 | 10.0 | -4.7 |
| 20 | 14.9 | | 12:57 10 | 10.1 | -4.8 |
| 30 | 14.7 | -9.4 | 20 | | |
| 40 | 14.6 | -9.3 | 30 | | |
| 50 | 14.6 | | 40 | | |
| 60 | 14.8 | -9.5 | 50 | | |
| 70 | 14.8 | | | | |
| 80 | 14.7 | -9.4 | | | |

9-4-48

STA. 137+00

0+00 - W SHORE B/L

| STA | + | H.I. | - | ELEV |
|------|------|-------|-----|------|
| BM. | 5.40 | 13.02 | | 7.62 |
| 0+0 | | | 5.1 | 7.9 |
| E 23 | | | 5.2 | 7.8 |
| E 35 | | | 5.4 | 7.6 |
| E 52 | | | 7.3 | 5.7 |
| E 57 | | | 8.1 | 4.9 |

STA 136+00

pt

9-4-48

(25)

STA. 138+00
0+00 - W SHORE B/L

| STA. | + | H.I. | - | ELEV. |
|------|------|-------|-----|-------|
| BM. | 5.88 | 13.91 | | 8.03 |
| 0+0 | | | 5.0 | 8.9 |
| E 5 | | | 5.2 | 8.7 |
| E 27 | | | 5.7 | 8.2 |
| E 48 | | | 6.2 | 7.7 |
| E 63 | | | 8.2 | 5.7 |
| E 68 | | | 9.0 | 4.9 |

STA 137+00

pt

SOUND EAST

| DIST | SOUND | | DIST | SOUND | |
|-------|-------|------|----------|-------|------|
| 13:24 | | | | | |
| 0+60 | 0.0 | +5.0 | 60 | 10.0 | -5.0 |
| | | | 70 | 10.1 | -5.1 |
| 70 | 1.0 | +4.0 | 80 | 9.0 | -4.0 |
| 80 | 3.9 | +1.1 | 90 | 7.0 | -2.0 |
| 90 | 6.3 | +1.3 | 3+00 | 5.0 | +0.0 |
| 1+00 | 8.6 | -3.6 | 10 | 5.1 | -0.1 |
| 10 | 9.2 | -4.2 | 20 | 5.0 | 0.0 |
| 20 | 9.5 | -4.5 | 30 | 5.4 | -0.4 |
| 30 | 10.3 | -5.3 | 40 | 5.8 | -0.8 |
| 40 | 10.3 | — | 50 | 6.1 | -1.1 |
| 50 | 10.4 | -5.4 | 60 | 6.0 | -1.0 |
| 60 | 10.1 | -5.1 | 70 | 6.2 | -1.2 |
| 70 | 10.8 | -5.8 | 80 | 6.3 | -1.3 |
| 80 | 10.9 | -5.9 | 13:29 90 | 6.1 | -1.1 |
| 90 | 10.7 | -5.7 | 4+00 | 6.2 | -1.2 |
| 2+00 | 10.7 | — | | | |
| 10 | 10.7 | — | | | |
| 20 | 10.7 | — | | | |
| 30 | 10.9 | -5.9 | | | |
| 40 | 11.0 | -6.0 | | | |
| 50 | 10.8 | -5.8 | | | |

SOUND EAST

| DIST. | SOUND | | DIST | SOUND | |
|-------|-------|------|----------|-------|------|
| 13:34 | | | | | |
| 0+71 | 0.0 | +4.8 | 80 | 4.1 | +0.6 |
| | | | 90 | 4.6 | +0.1 |
| 80 | 1.1 | +3.7 | 3+00 | 4.3 | +0.4 |
| 90 | 2.8 | +2.0 | 10 | 4.3 | +0.4 |
| 1+00 | 3.9 | +0.9 | 20 | 4.5 | +0.2 |
| 10 | 4.0 | +0.8 | 30 | 4.4 | +0.3 |
| 20 | 4.0 | +0.8 | 40 | 4.5 | +0.2 |
| 30 | 5.1 | -0.3 | 50 | 4.8 | -0.1 |
| 40 | 7.5 | -2.7 | 60 | 4.9 | -0.2 |
| 50 | 7.9 | -3.1 | 70 | 4.9 | -0.2 |
| 60 | 7.9 | -3.1 | 80 | 4.9 | -0.2 |
| 70 | 7.9 | -3.1 | 13:39 90 | 5.0 | -0.3 |
| 80 | 7.8 | -3.0 | 4+00 | 5.0 | -0.3 |
| 90 | 7.7 | -2.9 | | | |
| 2+00 | 7.7 | -2.9 | | | |
| 10 | 8.0 | -3.2 | | | |
| 20 | 7.5 | -2.7 | | | |
| 30 | 6.9 | -2.1 | | | |
| 40 | 5.3 | -0.5 | | | |
| 50 | 3.9 | +0.9 | | | |
| 60 | 4.1 | +0.7 | | | |
| 70 | 4.1 | +0.7 | | | |

STA 137+75 9-4-48
0+00 = W SHORE B/L

STA + H.I. - Elev.

SOUND EAST

| DIST | SOUND | |
|----------|-------|------|
| 14:12 | | |
| 0+76 | 0.0 | +4.3 |
| 80 | 0.6 | +3.7 |
| 90 | 1.3 | +2.0 |
| 1+00 | 3.3 | +1.0 |
| 10 | 4.5 | -0.2 |
| 20 | 6.7 | -2.4 |
| 30 | 7.9 | -3.6 |
| 40 | 8.0 | -3.7 |
| 50 | 8.0 | -3.7 |
| (4.3) 60 | 8.0 | -3.7 |
| 70 | 7.7 | -3.4 |
| 80 | 7.3 | -3.0 |
| 90 | 7.6 | -3.3 |
| 2+00 | 7.9 | -3.6 |
| 10 | 8.3 | -4.0 |
| 20 | 8.3 | -4.0 |
| 30 | 8.0 | -3.7 |
| 40 | 8.0 | -3.7 |
| 50 | 7.9 | -3.6 |
| 60 | 7.0 | +2.7 |
| 70 | 4.0 | +0.3 |

DIST SOUND

| | | |
|----------|-----|------|
| 80 | 3.8 | +0.5 |
| 90 | 3.9 | +0.4 |
| 3+00 | 3.9 | +0.4 |
| 10 | 3.8 | +0.5 |
| 20 | 4.0 | +0.3 |
| 30 | 3.9 | +0.4 |
| 40 | 4.1 | +0.2 |
| (4.3) 50 | 4.2 | +0.1 |
| 60 | 4.3 | 0.0 |
| 70 | 4.5 | -0.2 |
| 80 | 4.7 | -0.4 |
| 14:16 90 | 4.6 | -0.3 |
| 4+00 | 4.9 | -0.6 |

STA 137+50 9-4-48 (26)
0+00 = W SHORE B/L

STA. + H.I. - Elev

SOUND EAST

| DIST | SOUND | | DIST. | SOUND | |
|----------|-------|------|----------|-------|------|
| 14:20 | | | | | |
| 0+72 | 0.0 | +4.2 | 50 | 7.8 | -3.6 |
| 80 | 1.0 | +1.2 | 60 | 7.9 | -3.7 |
| 90 | 3.1 | +1.1 | 70 | 7.9 | -3.7 |
| 1+00 | 5.2 | -1.0 | 80 | 4.5 | -0.4 |
| 10 | 5.6 | -1.4 | 90 | 4.0 | +0.1 |
| 20 | 6.3 | -1.9 | 3+00 | 4.0 | +0.1 |
| 30 | 7.2 | -3.0 | 10 | 3.9 | +0.2 |
| 40 | 7.9 | -3.6 | 20 | 3.9 | +0.2 |
| 50 | 8.6 | -4.4 | 30 | 4.1 | 0.0 |
| (4.2) 60 | 9.0 | -4.8 | 40 | 4.0 | +0.1 |
| 70 | 9.5 | -5.3 | (4.1) 50 | 4.1 | 0.0 |
| 80 | 9.8 | -5.6 | 60 | 4.6 | -0.5 |
| 90 | 9.8 | -5.6 | 70 | 4.5 | -0.4 |
| 2+00 | 9.8 | -5.6 | 80 | 4.6 | -0.5 |
| 10 | 9.7 | -5.3 | 14:24 90 | 4.8 | -0.7 |
| | | | 4+00 | 4.9 | -0.8 |
| 20 | 9.6 | -5.4 | | | |
| 30 | 9.0 | -4.8 | | | |
| 40 | 8.4 | -4.2 | | | |

END SECTION 220' E. OF STA 138450

0+00 = PT 220' E OF STA 138450 W SHOT
B/L

| SOUND SOUTH | | DIST SOUND | |
|-------------|----------|------------|-----------|
| DIST | SOUND | DIST | SOUND |
| 14:05 | | | |
| 0+00 | 3.5 +0.8 | 1+10 | 9.9 -5.6 |
| 10 | 3.6 +0.8 | 20 | 10.2 -5.9 |
| 20 | 3.4 +1.0 | 30 | 10.1 -5.8 |
| 30 | 3.2 +1.2 | 40 | 10.1 -5.8 |
| 40 | 3.3 +1.1 | (43) 50 | 10.0 -5.7 |
| (4.4) 50 | 5.7 -1.3 | 60 | 10.0 -5.7 |
| 60 | 7.9 -3.5 | 70 | 10.0 - |
| 70 | 7.5 -3.1 | 80 | 10.0 - |
| 80 | 8.4 -4.0 | 14:08 90 | - |
| 90 | 8.5 -4.1 | 2+00 | - |
| 1+00 | 8.9 -4.5 | | |

STA. 139+00

9-7-48(71)

| STA. | + | H.I. | - | ELEV. |
|------|------|--------------------|-----|-----------------------|
| BM. | 5.31 | 14.17 ² | | 8.86 |
| | | | | STA 138+00 2X2 HUB |
| 0.0 | | | 5.1 | 9.1 |
| E 11 | | | 5.0 | 9.2 |
| E 20 | | | 5.9 | 8.3 |
| E 30 | | | 8.8 | 5.4 |
| E 33 | | | 8.9 | 5.3 |
| | | | | EDGE CONC FLUME |

STA. 138+50

9-7-48

| STA | + | H.I. | - | ELEV |
|------|------|---------------------|-----|-----------------------|
| BM | 5.11 | 13.97 ¹² | | 8.86 |
| | | | | STA 138+00 2X2 HUB |
| 0+0 | | | 5.0 | 9.0 |
| E 15 | | | 5.5 | 8.5 |
| E 38 | | | 6.3 | 7.7 |
| E 53 | | | 8.4 | 5.6 |
| E 58 | | | 9.3 | 4.7 |

STA 135+00

9-7-48

| STA. | + | H.I. | - | ELEV |
|------|------|-------|-----|---------------|
| BM | 5.26 | 13.62 | | 8.36 |
| | | | | STA 135+00 |
| 0.0 | | | 5.3 | 8.3 |
| E 4 | | | 5.9 | 7.7 |
| E 43 | | | 5.5 | 8.1 |
| E 60 | | | 6.7 | 6.9 |
| E 76 | | | 8.3 | 5.3 |
| E 83 | | | 9.1 | 4.5 |

10:45 5.2
10:50 5.3
10:55 5.3
11 AM 5.3
11:05 5.3
11:10 5.4
11:40 5.4
11:45 5.3

10:40 5.2
10:35 5.1
10:30 5.1
10:20 5.0
10:15 4.9
10:10 4.8
10:05 4.8
10:00 4.7

by the
19.4 ft.
10' =

slope
h the
ollow-
=.0041.

e dist-
=14 ft.,
8 ft.

IN U. S. A.

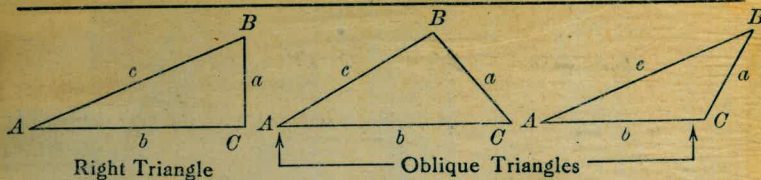
(JEPPER) TO DIEGO N 27° 18' 50" W JEEP EL = 9.036
 TO H₂O TANK N 61° 19' 28" E
 JEEP N 01° 51' 20" W

| STA. | EL. |
|--------|------|
| 135+00 | 8.36 |
| 136+00 | 7.62 |
| 137+00 | 8.03 |
| 138+00 | 8.84 |
| 139+00 | 8.54 |

25.7
178

4000.

TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

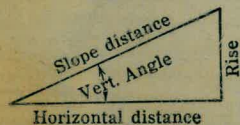
For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{b}$, $\text{cosec} = \frac{c}{a}$

| Given | Required | Formulas |
|-------|----------|--|
| 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 A, B, a | Required 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



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.