

W. 573 A

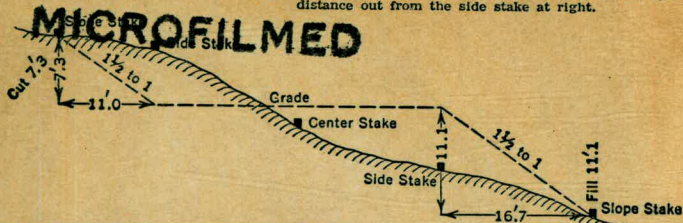
K & E

LEVEL BOOK

W 573 A

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
 Roadway of any Width. Side Slopes 1½ 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.



MICROFILMED

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.

81° 39' 44" CAUSEWAY B/L

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SOUND EAST STA-86+00 ORIGINAL SOUNDINGS
 0+00 = EAST CAUSEWAY B/L: LINES ARE RUN AT 81°33'44" TO B/L

4-24-47

STA-86+00

4-24-47

BARRAGAN
 SNEYDY
 STANLEY

DIST.	SOUND	DIST.	SOUND	DIST.	SOUND	DIST.	SOUND
				(3.2)	1.0	+2.2	6+30 11.5 -8.3'
0+47	0.0	+3.1	0.1	+3.0	1.4	+1.8	11.2 -8.0
<u>11:56</u> 0+60	1.0	+2.1	+50 0.0	+3.1	50 1.3	+1.9	50 11.5 -8.3
(3.1)	1.3	+1.8	(3.1) +0.1	+3.2	1.2	+2.0	12.0 -8.8
	1.4	+1.7	+0.1	+3.2	1.3	+1.9	12.4 -9.2
	1.5	+1.6	+0.1	+3.2	1.3	+1.9	13.0 -9.8
1+00	1.6	+1.5	+0.2	+3.3	1.3	+1.9	13.1 -9.9
	1.5	+1.6	3+00 +0.3	+3.4	5+00 1.4	+1.8	7+00 13.3 -10.1'
	1.4	+1.7	+0.4	+3.5	1.4	+1.8	13.1 -9.9
	1.3	+1.8	+0.4	+3.5	1.7	+1.5	12.7 -9.5
	1.3	+1.8	+0.3	+3.4	2.0	+1.2	13.0 -9.8
+50	1.4	+1.7	+0.2	+3.3	2.5	+0.5	12:14 13.2 -10.0'
	1.4	+1.7	50 +0.1	+3.2	(3.2) +50 3.1	+0.1	50 14.0 -10.8
	1.5	+1.6	-0.0	+3.1	12:12 4.0	-0.8	(3.2) 13.5 -10.3
	1.5	+1.6	-0.5	+2.6	(3.2) 4.3	-1.1	13.0 -9.8
	1.5	+1.6	-0.0	+3.1	5.0	-1.8	12.1 -8.9
2+00	1.0	+2.1	0.0	+3.1	5.3	-2.1	13.3 -10.1'
	1.0	+2.1	4+00 0.2	+2.9	6+00 8.0	-4.8	8+00 12.8 -9.6
(3.1)	0.5	+2.6	(3.1) +0.1	+3.2	10.0	-6.8	11.8 -8.6
<u>12:01</u>	0.1	+3.0	<u>12:07</u> +0.1	+3.2	6+20 11.1	-7.9	8+20 10.5 -7.3'

STA-86+00			4-24-47			STA-86+00			4-24-47		
DIST	SOUND		DIST	SOUND	X	DIST	SOUND		DIST	SOUND	X
8+30	10.7	-7.5	10+30	8.3	-5.1	12+30	7.1	-3.9		2.5	+0.8
	11.1	7.9		8.4	5.2		6.8	3.6		2.5	+0.8
50	10.5	7.3	50	8.1	4.9	+50	6.8	3.6	+50	2.5	+0.8
	10.0	6.8		8.2	5.0		6.5	3.3		2.4	+0.9
	9.4	6.2		8.5	5.3		6.3	3.1		2.4	+0.9
	9.3	6.1		8.1	4.9		6.0	2.8		2.4	+0.9
	9.0	5.8		8.0	4.8		5.7	2.5		2.4	+0.9
9+00	8.8	5.6	11+00	7.8	4.6	13+00	5.6	2.4	15+00	2.3	+1.0
	9.0	5.8		8.0	4.8		5.1	1.9		2.3	+1.0
12:15	8.0	4.8		8.0	4.8		5.1	1.9	12:21	2.1	+1.2
(3.2)	9.1	5.9		8.0	4.8	(3.2)	5.1	1.9	(3.3)	2.1	+1.2
	8.5	5.3		8.0	4.8	13:16	5.1	1.9		2.6	+0.7
50	8.1	4.9	50	8.0	4.8	+50	4.8	1.5	+50	3.0	+0.3
	8.8	5.6		7.8	4.6	(3.3)	4.5	-1.2		3.0	+0.3
	8.0	4.8		7.8	4.6		3.0	+0.3		3.1	+0.2
	8.3	5.1		7.8	4.6		2.5	+0.8		3.1	+0.2
	8.0	4.8		7.7	4.5		2.5	+0.8		3.7	-0.4
10+00	7.8	4.6	12+00	7.7	4.5	14+00	2.4	+0.9	16+00	4.3	-1.0
	8.3	5.1		7.5	4.3		2.5	+0.8		4.5	-1.2
10+20	8.0	4.8	12+20	7.0	3.8		2.5	+0.8	16+20	4.5	-1.2

STA-86+00

4-24-47

SOUND EAST

STA-87+00

4-24-47

ORIGINAL SOUNDINGS

EAST

34+00 = CAUSEWAY 3/4; LINES ARE RUN AT 81°30'47" TO 3/4

DIST SOUND

DIST SOUND

4.8 -1.5

18+40

0.3

+3.0

DIST

SOUND

DIST

SOUND

5.0 -1.7

+50

0.1

STAKE
AT
18+50

+3.2

50 5.2

-1.9

12:29

5.4 -2.1

(3.3)

4.5 -1.2

1.8 +1.5

1.5 +1.8

17+00 1.0 +2.3

12:24 0.8 +2.5

(3.3) 0.6 +2.7

0.0 +3.3

0.6 +2.7

50 1.0 +2.3

1.2 +2.1

0.6 +2.7

80 0.1 +3.1

+0.2 +3.5

18+00 +0.2 +3.5

+0.1 +3.4

0.0 +3.3

18+30 0.1 +3.2

PAGE

NEXT

LINES ARE RUN AT 81°33'44"		STA - 87+00		A-21-47 0+00 = E CAUSEWAY 1/2		SOUND EAST		STA - 87+00		A-21-47 BRADEN SWAMP STANLEY SOUND		(+)
DIST	SOUND	ORIGINAL	DIST	SOUND	SOUNDINGS	DIST	SOUND	DIST	SOUND	DIST	SOUND	
0+33	0.0	+3.4	2+30	1.1	+2.3	4+30	1.6	+1.8	6+30	1.3	+2.1	
0+40	0.3	+3.1		1.0	+2.4		1.5	+1.9		1.0	+2.4	
<u>12:49</u>	1.2	+2.2	50	0.9	+2.5	50	1.4	+2.0	+50	1.4	+2.0	
(3.4)	1.4	+2.0	12:52	0.9	+2.5		1.5	+1.9		1.7	+1.7	
	1.4	+2.0	(3.4)	0.9	+2.5		1.5	+1.9		1.7	+1.7	
	1.5	+1.9		0.9	+2.5		2.0	+1.4		2.1	+1.3	
	1.7	+1.7		1.0	+2.4		3.0	+0.4	12:58	3.2	+0.2	
1+00	1.7	+1.7	3+00	1.0	+2.4	5+00	3.2	+0.2	7+00	4.5	-1.1	
	1.7	+1.7		1.0	+2.4		3.0	+0.4	(3.4)	5.6	-2.2	
	1.7	+1.7		1.0	+2.4		2.7	+0.7		8.5	-5.1	
	1.7	+1.7		0.9	+2.5	12:56	3.0	+0.4		9.3	5.9	
	1.5	+1.9		0.8	+2.6	(3.4)	3.2	+0.2		10.3	6.9	
+50	1.5	+1.9	50	0.8	+2.6	50	3.5	-0.1	+50	12.0	8.6	
	1.5	+1.9		0.9	+2.5		2.8	+0.6		13.2	9.8	
	1.5	+1.9		1.1	+2.3		2.5	+0.9		14.0	10.6	
	1.6	+1.8		1.2	+2.2		1.5	+1.9		13.8	10.4	
	1.6	+1.8					1.5	+1.9		14.0	10.6	
2+00	1.7	+1.7	4+00	1.3	+2.1	6+00	1.5	+1.9	8+00	14.2	10.8	
	1.5	+1.9		1.4	+2.0		1.6	+1.8		14.7	11.3	
2+20	1.1	+2.3	4+20	1.4	+2.0	6+20	1.5	+1.9	8+20	14.5	11.1	

STA - 87+00				4-24-47				STA - 87+00				4-24-47	
DIST	SOUND		DIST	SOUND		DIST	SOUND		DIST	SOUND		⑤	
8+30	14.0	-10.6	10+30	10.1	-6.7	12+30	8.6	-5.2	14+30	8.0	-4.6		
<u>13:00</u>	13.5	10.1		9.2	√8		8.9	√5		8.0	4.6		
50	13.1	9.7	+50	8.1	4.7	+50	8.9	√5	+50	8.0	4.6		
(3.4)	12.5	9.1		8.8	√4		9.0	√6		7.5 8.5	4.1		
	12.5	9.1		8.4	√0		9.0	√6		7.5 4.5	4.1		
	12.7	9.3		8.6	√2		9.0	√6		7.5 4.5	4.1		
	13.1	9.7		8.6	√2		9.0	√6		7.3	3.9		
9+00	12.8	9.4	11+00	8.5	√1	13+00	9.0	√6	15+00	6.5	3.1		
	12.0	8.6		8.7	4.9		9.0	√6		6.2	2.8		
	11.5	8.1	<u>13:04</u>	8.8	√4	<u>13:07</u>	9.0	√6		5.6	2.2		
	11.0	7.6	(3.4)	8.3	4.9	(3.4)	9.0	√6		5.1	-1.7		
	11.0	7.6		8.3	4.9		9.0	√6		5.0	1.6		
+50	11.7	8.3	+50	8.3	4.9	+50	8.8	√4	50	5.0	1.6		
	10.1	6.7		8.8	√4		9.0	√6		4.9	1.5		
	10.5	7.1		8.2	4.8		8.8	√4		4.6	-1.2		
	9.8	6.4		8.5	√1		9.0	√6	(3.4)	4.4	-1.0		
	10.0	6.6		8.5	√1		8.8	√4	<u>13:10</u>	4.1	-0.7		
10+00	10.0	6.6	12+00	8.1	4.7	14+00	8.4	√0	16+00	3.4	0.0		
	9.4	6.0		8.5	√1		8.5	√1	(3.4)	2.7	+0.7		
10+20	9.0	-5.6	12+20	8.5	-5.1	14+20	8.6	-5.2	16+20	2.3	+1.1		

STA-87+00			4-24-47			STA-92+00			4-24-47		
DIST	SOUND		DIST	SOUND		DIST	SOUND		DIST	SOUND	
16+30	2.2	+1.2	18+30	1.6	+1.8	13+25	0.0	+3.4	2+10	2.1	+1.3
(3.4)	2.2	+1.2	13:13	1.5	+1.9	13+30	0.2	+3.1		2.0	+1.4
+50	2.2	+1.2	+50	1.5	+1.9	13:31	1.0	+2.4	13:40	2.1	+1.3
	2.5	+0.9	(3.4)	1.5	+1.9	+50	2.2	+1.2	(3.4)	2.0	+1.4
	2.9	+0.5		1.4	+2.0	(3.4)	2.5	+0.7	50	2.1	+1.3
	3.0	+0.4		1.4	+2.0		2.5	+0.9		2.5	+0.9
	3.2	+0.2		1.2	+2.2		2.5	+0.9		2.5	+0.9
17+00	3.4	0.0	19+00	1.2	+2.2		2.5	+0.9		2.5	+0.9
	3.6	-0.2		1.0	+2.4		2.5	+0.9		2.5	+0.9
	3.7	-0.3		1.0	+2.4	1+00	2.4	+1.0		2.7	+0.7
	3.8	-0.4		0.8	+2.6		2.2	+1.2	3+00	2.5	+0.9
	4.0	-0.6		0.4	+2.8		2.2	+1.2		2.4	+1.0
50	4.0	-0.6	+50	0.4	+3.0		2.1	+1.3		2.4	+1.0
	3.7	-0.3	13:16		+3.0		2.0	+1.4		2.4	+1.0
	3.0	+0.4	(3.4)		+50		2.0	+1.4		2.4	+1.0
	3.5	-0.1					2.0	+1.4	+50	2.4	+1.0
	1.8	+1.6					2.0	+1.4		2.3	+1.1
18+00	1.8	+1.6					2.0	+1.4		2.4	+1.0
	1.5	+1.9					2.0	+1.4	(3.4)	2.3	+1.1
18+20	1.5	+1.9				2+00	1.9	+1.5	3+90	2.3	+1.1

SOUNDEAST

2000 = EAST CAUSEWAY

STA-92+00

BL: LINES ARE RUN AT

ORIGINAL

SOUNDINGS

4-24-47

81°39'4" TO 81°

FARRINGTON

SOUNDING

©

BARRAGAN
SWEENEY
STANLEY ⑦

4-24-47
ORIGINAL SOUNDINGS
4+00 = EAST CAUSEWAY B.P. LINES ARE RUN AT 81°33'44" TO B/L

STA - 92+00		4-24-47	
DIST	SOUND	DIST	SOUND
4+00	2.3 +1.1	6+00	1.2 +2.0
	2.0 +1.4		1.1 +2.0
	1.9 +1.5		1.0 +2.0
13:43	2.0 +1.4		1.0 +2.0
(3.4)	2.0 +1.4		0.9 +2.0
+50	2.9 +0.5	50	0.9 +2.0
	2.1 +1.3		0.8 +2.0
	2.1 +1.3		0.8 +2.0
	2.1 +1.3	13:47	0.5 +2.0
	2.2 +1.2	(3.4)	0.5 +2.0
5+00	2.5 +0.9	7+00	0.5 +2.0
	1.8 +1.6		0.7 +2.0
	1.8 +1.6		0.7 +2.0
	1.8 +1.6		0.7 +2.0
	1.9 +1.5		0.6 +2.0
50	1.5 +1.9	50	0.4 +3.0
	1.6 +1.8	13:51	0.3 +3.0
13:45	1.6 +1.8	(3.4)	0.3 +3.0
(3.4)	1.4 +2.0		
5+90	1.3 +2.1		

STA - 93+00		4-24-47	
DIST	SOUND	DIST	SOUND
	0.0 +3.4	2+10	3.6 -0.2
	0.5 +2.9	2+20	3.5 -0.1
	2.4 +1.0		3.4 0.0
14:05	2.9 +0.5	+50	3.3 +0.1
(3.4)	3.0 +0.4	+50	3.5 -0.1
	3.2 +0.2		3.2 +0.2
	3.4 0.0		3.0 +0.4
	3.5 -0.1		3.0 +0.4
	3.5 -0.1	14:08	3.0 +0.4
	3.7 -0.3	3+00	3.1 +0.3
	3.9 -0.5	(3.4)	3.1 +0.3
	3.7 -0.3		3.1 +0.3
	4.0 0.6	+30	3.7 +0.3
	4.0 0.6		3.5 -0.1
	4.0 0.6	+50	3.0 +0.4
	3.7 0.3		2.8 +0.6
	3.5 0.1		2.5 +0.9
2+00	3.6 -0.2		2.2 +1.2
3+10		3+90	2.3 +1.1

STA- 93+00			4-24-47		
DIST	SOUND		DIST	SOUND	
4+00	2.3	+1.1	6+00	1.5	+1.9
(3.4)	2.2	+1.2		1.6	+1.8
	2.1	+1.3	(3.4)	1.4	+2.0
	2.0	+1.4		1.1	+2.3
	2.0	+1.4	14:13	1.0	+2.4
50	2.2	+1.2	+50	0.8	+2.6
	2.4	+1.0	(3.4)	0.5	+2.9
	2.1	+1.3		0.5	+2.9
	2.0	+1.4		0.6	+2.8
	2.2	+1.2		0.6	+2.8
5+00	2.0	+1.4	7+00	0.6	+2.8
	2.3	+1.1		0.6	+2.8
	2.4	+1.0		0.5	+2.9
14:11	1.7	+1.7		0.5	+2.9
(3.4)	1.8	+1.6		0.5	+2.9
50	1.7	+1.7	7+50	0.5	+2.9
	1.5	+1.9	14:17		+2.9
	1.5	+1.9	(3.4)		+2.9
	1.4	+2.0			+2.9
5+90	1.4	+2.0			+2.9

STA- 94+00			4-24-47		
ORIGINAL SOUNDINGS			SOUND EAST		
0+00 = EAST CAUSEWAY TO LINES ARE RUN AT 81°39'41" T. OF					
DIST	SOUND		DIST	SOUND	
0+35	0.0	+3.4	2+30	2.7	+0.7
+50	1.1	+2.3		2.7	+0.7
14:29	1.2	+2.2	+50	2.6	+0.8
(3.4)	1.4	+2.0	(3.4)	2.6	+0.8
	1.5	+1.9		2.7	+0.7
	1.6	+1.8		2.8	+0.7
1+00	1.7	+1.7		3.1	+0.3
	2.0	+1.4	3+00	3.5	-0.1
	2.1	+1.3		3.5	-0.1
	2.4	+1.0		3.5	-0.1
	2.8	+0.6		4.0	-0.6
+50	3.0	+0.4		4.0	-0.6
	3.0	+0.4	+50	4.1	-0.7
	3.0	+0.4		4.1	-0.7
	3.2	+0.2		4.0	0.6
	3.3	+0.1		4.3	0.9
2+00	3.1	+0.3		4.5	1.1
	3.0	+0.4	4+00	4.0	0.6
2+20	2.9	+0.5	4+10	4.0	-0.6

STA- 94+00			4-24-47		
DIST	SOUND		DIST	SOUND	X
4+20	3.7	-0.3	6+20	1.0	+2.4
(3.4)	3.4	0.0	(3.4)	1.0	+2.4
	3.2	+0.2		1.0	+2.4
+50	3.8	-0.4	+50	1.1	+2.3
	3.7	-0.3		1.0	+2.4
	2.6	+0.8	(3.4)	1.0	+2.4
	2.5	+0.9	14:39	1.0	+2.4
	2.4	+1.0	(3.3)	1.0	+2.3
5+00	2.6	+0.8	7+00	1.0	+2.3
	2.8	+0.6		1.0	+2.3
14:35	2.8	+0.6		0.9	+2.3
(3.4)	2.5	+0.9		0.9	+2.3
	2.3	+1.1		0.8	+2.3
+50	2.3	+1.1	+50	0.8	+2.3
	1.8	+1.6		0.7	+2.3
	1.5	+1.9		0.6	+2.3
	1.5	+1.9		0.5	+2.3
	1.4	+2.0		0.6	+2.3
6+00	1.3	+2.1	8+00	0.5	+2.3
6+10	1.2	+2.2		0.6	+2.3

STA- 94+00			4-24-47		
DIST	SOUND	X	DIST	SOUND	
(3.3)	0.6	+2.7			
	0.7	+2.6			
	1.0	+2.3			
50	1.0	+2.3			
	1.0	+2.3			
	1.0	+2.3			
	1.0	+2.3			
	0.9	+2.4			
9+00	0.7	+2.6			
	0.7	+2.6			
14:42	0.6	+2.7			
(2.3)	0.6	+2.7			
	0.6	+2.7			
+50	0.6	+2.7			
	0.6	+2.7			
	0.6	+2.7			
	0.6	+2.7			
	0.6	+2.7			
	0.5	+2.8			
10+00	0.5	+2.8			
14:44	(3.3)				

STAKE AT 10+00

+2.8

4-25-47
 STA-88+00 & 89+00 ORIGINAL SOUNDINGS

4-25-47
 STA-90+00

4-25-47
 BARRIGAN
 SHERRY
 STANLEY

CLEAR
 ←
 CALM

(10)

0+00 = EAST CAUSEWAY 3/4: LINES ARE RUN AT 81°39'44" To 3/4

0+00 = EAST CAUSEWAY 3/4: LINES ARE RUN AT 81°39'44" To 3/4

	+	H.I.	-	ELEV.	TOP HUB		+	H.I.	-	ELEV.	TOP STAKE ON TRAIL		+	H.I.	-	ELEV.	T.B.M.
B.M.																	
STA-88+00	+3.75	14.99 ✓		11.24			E 5+80	+4.12	8.11 ✓				3.99 ✓				T.B.M.
T.P.	+4.50	8.49 ✓	-11.00	3.99 ✓			E 6+11						3.1				X
STA 88+00		H.I. 8.49				X	E 6+35						3.5				
X-E	ROD						E 6+72						2.9				
E. 7+05	5.0			3.5			E 7+32						3.6				
E 7+23	5.3			3.7			E 7+98						3.9				
E 7+30	4.5			4.0			E 8+65						3.6				
E 7+71	4.3			4.2			E 9+35						3.8				
E 7+90	(STAKE) 6.0			2.5			E 9+92						3.3				
STA-89+00	+4.43	H.I. 8.42 ✓		3.99 ✓	TOP STAKE		E 10+72						3.4				
E 9+10	6.6			1.8		X	E 12+80						6.3				
E 8+90	4.8			3.6									1.8				
E 8+50	4.5			3.9													
E 8+10	4.8			3.6													
E 7+70	4.6			3.8													
E 7+25	4.5			3.9													
E 6+78	4.9			3.5													
E 6+35	STAKE 5.0			3.4													

8.0-10.0

4-25-47
 STA- 91+00 ORIGINAL SECTIONS

0+00 = EAST CAUSEWAY 3/4 LINES ARE RUN AT 81° 39' 14" TO 3/4
 H.I.

Station	Value	H.I.	Value	T.B.M.
π				
E 6+00	+3.80	7.79 ✓	3.99 ✓	T.B.M.
E 11+10	4.6		3.7 ✓	
E 10+65	4.1		3.7	
E 10+03	4.0		3.8	
E 9+30	3.9		3.9	
E 8+85	4.4		3.4	
E 8+10	4.2		3.6	
E 7+50	4.0		3.8	
E 6+95	4.8		3.0	
E 6+35	4.7		3.1	

4-25-47
 STA- 92+00 ORIGINAL SOUNDINGS

0+00 = EAST CAUSEWAY 3/4 LINES ARE RUN AT 81° 39' 14" TO 3/4

Station	Value	H.I.	Value	T.B.M.
E 7+60	+4.08	8.07	3.99	T.B.M.
E 8+10	4.9		3.7	
E 8+75	5.3		2.8	
E 9+35	4.8		3.3	
E 9+90	4.5		3.6	
E 10+55	3.9		4.2	
E 11+20	4.0		4.1	
E 12+00	3.7		4.4	
E 12+30	3.9		4.7	
E 12+60	4.2		3.9	
E 13+00	5.4		2.7	

T.P.		8.07	3.99	T.B.M.
		-3.99	4.08	T.P.

STA- 93+00 ORIGINAL SECTIONS ⁴⁻²⁵⁻⁰⁷

LINES ARE RUN AT 81°38'49" To 3/4 0+00 = CAUSEWAY 3/4
 H.I. 4.08 T.B.M

E (7+50) + 3.50 7.58

T (STAKE) ?

E 13+60 4.4

E 13+45 4.4

E 12+95 4.3

E 12+30 4.0

E 11+55 3.8

E 10+55 4.1

E 9+50 4.8

E 8+80 5.0

E 8+28 5.0

3.2

3.3

3.6

3.8

3.1

2.8

2.6

2.6

STA- 94+00 0+00 = CAUSEWAY 3/4 ⁴⁻²⁵⁻⁰⁷ (12)

LINES ARE RUN AT 81°38'49" To 3/4 ORIGINAL SECTIONS
 E (10+00) H.I. 4.08 T.B.M

T + 3.55 8.63

E 10+75 - 4.4

E 11+30 - 4.5

E 12+15 - 4.9

E 12+65 - 5.5

E 13+05 - 5.8

E 13+25 - 6.5

E 17+55 - 6.0

E 12+95 - 5.3

E 14+30 - 5.9

E 14+50 - 4.8

E 14+90 - 4.2

E 15+70 - 5.3

4.08 T.B.M

4.2

4.1

3.7

3.1

2.8

2.1

2.6

2.8

2.7

3.8

4.4

3.3

H.I. 3.52

(STAKE)

SOUND EAST STA 88+00					STA- 88+00						
LINES ARE RUN AT 81°30'44" TO 81°					ORIGINAL SOUNDINGS						
DIST	SOUND	DIST	SOUND	DIST	SOUND	DIST	SOUND	DIST	SOUND		
7+90	1.5	+1.0	11.0	-8.5	20	7.6	-5.0'	+70	8.0		
8+00	1.5	+1.0	11.0	-8.5		8.0	5.4	(2.6)	8.3		
12:29	2.0	+0.5	10+00	11.0	-8.5	+50	7.8	5.2	12:46	7.9	
(2.5)	7.4	-4.9'		11.1	-8.6	12+00	7.1	4.5	1400	8.4	
	9.1	-6.6		11.4	-8.7		7.4	4.8	(2.7)	8.0	
	9.2	-6.7	(2.5)	11.3	-8.8		7.3	4.7		8.0	
50	10.4	-7.9'	12:35	11.0	-8.5		7.8	5.2		8.0	
	11.5	-9.0	(2.6)	50	10.2	7.6		7.4	4.8	8.5	
	12.3	-9.8		9.5	6.9	50	8.0	5.4	50	8.1	
	12.7	-10.2		9.0	6.4		7.8	5.2		8.5	
	12.5	-10.0		10.0	7.4		8.0	5.4		8.6	
9+00	12.6	-10.1		10.0	7.4		8.0	5.4		8.4	
	13.2	-10.7	11+00	9.7	7.1		7.7	5.1		8.4	
	12.8	-10.3		9.1	6.5	13+00	8.0	5.4	15+00	8.5	
	13.0	-10.5		8.1	5.5		8.0	5.4		8.5	
	13.0	10.5		8.5	5.9		7.7	5.1		8.5	
50	12.4	9.9	12:43	8.1	5.5		8.1	5.5		8.7	
	12.0	9.5	50	8.0	5.4		7.8	5.2		8.8	
	12.2	9.7	(2.6)	10	8.3	-5.7	50	8.4	5.8	50	9.0
30	11.8	-9.3	20			60	8.0	-5.4	60	9.0	

(3)

X

5.7

5.3

5.7

5.3

5.3

5.3

5.8

5.4

5.8

5.9

5.7

5.7

5.8

5.8

5.8

6.0

6.1

6.3

6.3

STA 88+00					STA - 88+00					4-25-47	
DIST	SOUND		DIST	SOUND	DIST	SOUND	DIST	SOUND	DIST	SOUND	(14)
15+70	9.0	-6.3	17+70	5.0	-2.3	19+70	2.8	-0.1	21+70	2.0	+0.7
(2.7)	9.0	6.3		3.7	-1.0	(2.7)	2.0	+0.7	12:55	1.8	+0.9
	9.2	6.5	(2.7)	2.8	-0.1		3.0	-0.3	(2.7)	1.8	+0.9
16+00	8.8	6.1	18+00	1.8	+0.9	20+00	3.0	-0.3	22+00	1.8	+0.9
	8.4	5.7		1.5	+1.2		2.7	0.0		1.7	+1.0
	8.8	6.1	12:50	1.5	+1.2		2.5	+0.7		1.7	+1.0
12:48	8.3	5.6		1.6	+1.1		2.7	0.0		1.6	+1.1
(2.7)	8.7	6.0		1.6	+1.1		2.7	0.0		1.6	+1.1
50	9.3	6.6	50	1.7	+1.2	50	3.0	-0.3	50	1.6	+1.1
	9.0	6.3		1.8	+0.9		3.0	-0.3		1.6	+1.1
	9.0	6.3		1.9	+0.8		3.0	-0.3		1.6	+1.1
	9.0	6.3		2.0	+0.7		2.7	0.0		1.6	+1.1
	8.8	6.1		2.3	+0.5		2.6	+0.1		1.6	+1.1
17+00	8.6	5.9	19+00	2.3	+0.5	21+00	2.4	-0.3	23+00	1.5	+1.2
	8.5	5.8		2.5	+0.3		2.5	+0.7		1.1	+1.6
	8.3	5.6		3.0	-0.3		2.1	+0.6		1.0	+1.7
	8.1	5.4		2.8	-0.1		2.0	+0.7	30	0.5	+2.2
	7.5	4.8	(2.7)	2.5	+0.3		2.0	+0.7	(2.7) ⁴⁰	0.1	+2.6
50	6.8	4.1	50	2.4	+0.3	50	2.0	+0.7	23+50	No ELEV	SPACE
60	6.2	3.5	+60	2.5	+0.3	60	2.0	+0.7	12:57		
									(2.8)		

SOUND EAST
 STA - 89+00 6+00 =
 LINES ARE RUN AT 81°39'44" TO 1/4 ORIGINAL SOUNDING

DIST	SOUND	DIST	SOUND
9+10	3.0	11+10	9.8
9+20	3.0	11+10	9.8
13:13	6.1	11.0	8.1
(2.9)	8.0	10.5	7.6
50	9.3	10.3	7.4
	11.0	50	9.7
	11.8	9.5	6.6
	12.1	10.5	7.6
	12.1	10.2	7.3
10+00	12.0	9.5	6.6
13:15	12.5	12+00	9.0
(2.9)	12.8	13:18	9.1
	12.4	(2.9)	9.6
	12.0	9.3	6.4
50	12.2	8.7	5.7
	12.0	50	8.0
	11.8	7.7	4.8
	11.5	8.1	5.5
	11.1	7.5	4.8
11+00	10.7	8.4	5.5

STA 89+00 4-25-27
 SOUND DIST SOUND

DIST	SOUND	DIST	SOUND
13+00	7.8	15+00	8.5
(2.9)	8.3	8.0	7.1
	7.8	8.5	7.6
	8.1	8.7	7.8
	8.0	13:20	8.9
50	8.3	50	9.2
	7.4	(2.9)	8.4
	8.5	8.8	7.9
	8.0	9.3	6.4
	8.3	9.3	6.4
	8.0	16+00	9.0
	8.2	8.8	7.9
	8.0	9.0	6.1
	7.8	9.2	6.3
	8.3	8.7	7.8
50	8.5	50	9.0
	8.1	9.7	6.8
	8.5	9.7	6.8
	8.5	9.4	6.5
14+90	8.5	16+90	9.6

(15)
 X

STA - 89+00					STA - 89+00					2-25-47	(16)	
DIST	SOUND		DIST	SOUND	X	DIST	SOUND		DIST	SOUND		X
17+00	10.2	-7.3	19+00	7.7	-4.8	21+00	15	+1.4	23+00	0.5	+2.4	
(2.9)	9.8	6.9		7.4	4.5		1.5	+1.4	<u>13:28</u>	0.2	+2.7	
	10.3	7.4		7.0	4.1		1.6	+1.3	+20	0.0	+2.9	
	10.0	7.1	(2.9)	6.8	3.9		1.6	+1.3	23+30	+0.2	2	STATE
	10.0	7.1	<u>13:25</u>	6.6	3.7		1.8	+1.1	(2.9)		+3.1	
50	10.4	7.5	50	6.4	3.5	50	1.8	+1.1				
	9.6	6.7		6.1	3.2		1.8	+1.1				
	9.6	6.7		5.5	2.8		1.8	+1.1				
	10.3	7.4		4.5	-1.1	<u>13:31</u>	1.7	+1.2				
	10.3	7.4		4.0	-1.1	(2.9)	1.7	+1.2				
18+00	10.0	7.1	20+00	3.0	-0.1	22+00	1.7	+1.2				
	9.8	6.9		2.4	7.8		1.7	+1.2				
	9.7	6.8		2.0	+2.1		1.7	+1.2				
<u>13:23</u>	9.8	6.9		1.8	+1.1		1.5	+1.4				
	10.0	7.1		1.6	+1.2		1.5	+1.4				
50	9.7	6.8	50	1.5	+1.1	7.50	1.5	+1.4				
(2.9)	9.4	6.5		1.5	+1.1		1.4	+1.5				
	8.5	5.6	(2.9)	1.5	+1.1		1.2	+1.7				
	8.1	5.2		1.5	+1.1		1.1	+1.8				
18+90	8.0	-5.1	20+90	1.4	+1.1	+90	1.0	+1.9				

SOUND EAST

STA - 90+00 0+00=

LINES ARE RUN AT 81°20'44" T. BY ORIGINAL SOUNDINGS

DIST	SOUND STAKE		DIST	SOUND	
10+30					
+40	2.0	+1.1	12+30	11.0	-7.1
+50	3.8	-0.7		10.5	7.4
<u>13:08</u>	6.1	-3.0	50	10.3	7.2
(3.1)	8.3	5.2		10.8	7.1
	9.4	6.3		10.2	7.1
	10.2	7.1	80	10.0	6.9
11+00	10.7	7.6		9.8	6.7
	11.0			9.8	6.7
	7.9	7.9	13+00	9.2	6.5
	11.3	8.2		8.5	6.4
	11.3	8.2		9.8	6.7
	11.3	8.2	30	9.8	6.7
50	11.5	8.4		9.0	6.5
	11.8	8.7	50	8.2	6.4
	11.5	8.4	<u>13:53</u>	8.0	6.4
	11.3	8.2	(3.1)	8.7	6.4
	11.3	8.2	80	9.7	6.9
12+00	11.0	7.9		9.0	6.9
	11.5	8.4	14+00	8.5	6.9
12+20	11.8	-8.7	14+10	7.8	6.9

STA - 90+00

2-25-47

SOUND

DIST SOUND

X (17)

DIST	SOUND		DIST	SOUND	
14+20	8.6	-5.5	16+20	9.2	-6.1
+30	8.4	5.3	⁺³⁰ 13:56	9.2	6.1
(3.1)	8.7	5.6	(3.1)	9.2	6.1
+50	8.3	5.2	+50	9.1	6.0
	7.4	4.3		9.8	6.7
	8.4	5.3		10.2	7.1
+80	8.0	4.9	+80	10.0	6.9
	8.2	5.1		9.0	6.9
15+00	8.0	4.9	17+00	9.4	6.3
	8.1	5.0		9.6	6.5
	8.1	5.0		9.0	6.9
+30	8.7	5.6	+30	9.7	6.6
	8.5	5.4		10.3	7.2
+50	8.5	5.4	+50	9.5	6.4
	9.0	5.9		9.5	6.4
	9.0	5.9		9.5	6.4
+80	9.0	5.9	+80	10.0	6.9
	8.8	5.7	(3.1)	10.4	7.3
18+00	8.6	5.5	18+00	10.0	6.9
18+10	8.4	-5.3	18+10	10.0	-6.9

STA-90+00			STA-90+00		
DIST	SOUND		DIST	SOUND	
18+20	10.3	-7.2'	20+20	10.8	-7.6
+30	9.5	6.4	+30	10.4	7.2
	9.5	6.4	(3.2)	10.3	7.1
+50	9.8	6.7	+50	10.3	7.1
	10.2	7.1		10.0	6.8
(3.1)	9.6	6.5'		9.1	5.9
+80	10.0	6.9	+80	8.8	5.6
13:58	9.7	6.6		8.7	5.1
19+00	9.7	6.5'	21+00	8.0	4.5
(3.2)	10.0	6.8		7.1	
	9.8	6.6		7.1	3.9
				7.3	
+30	10.1	6.9	+30	7.2	4.0
	10.0	6.8		7.0	3.8
+50	10.2	7.0	50	7.0	3.8
	10.5	7.3	14:02	6.7	3.5
	11.0	7.8	(3.2)	6.5	3.3
+80	11.0	7.8	+80	6.4	3.2
	11.0	7.8		6.1	2.9
20+00	11.0	7.8	22+00	6.1	2.9
20+10	11.0	7.8	22+10	3.8	-2.7

STA-90+00			4-25-47		
DIST	SOUND		DIST	SOUND	
22+20	6.0	-7.8'	24+20	0.1	+3.1
+30	6.0	-7.8'	24+30	STAKE	+3.6
				+0.4	
(3.2)	5.7	-7.5'			
+50	4.8	-1.6'			
	2.9	+0.3			
	2.7	+0.5'			
+80	2.4	+0.8			
	2.0	+1.2			
23+00	1.5	+1.7			
	1.2	+2.0			
	1.1	+2.1			
+30	1.1	+2.1			
	1.1	+2.1			
+50	1.0	+2.2			
	1.0	+2.2			
(3.2)	0.8	+2.4			
+80	0.5	+2.7			
	0.4	+2.8			
24+00	0.4	+2.8			
24+10	0.5	+2.9			

SOUND EAST
 LINES ARE RUN AT 81° 39' 77" To B/L ORIGINAL SOUNDINGS
 STA 91+00 0+00 = CAUSEWAY B/L
 4-25-47

DIST	SOUND	STAKE	DIST	SOUND
11+10	0.5	+2.7	13+10	11.7 - 8.5
14:25 +30	1.1	+2.1		11.0 7.8
(3.2)	1.4	+1.8	(3.2)	11.4 8.2
+50	1.7	+1.5		11.0 7.8
	2.0	+1.2	50	10.5 7.3
	4.0	-0.8		10.1 6.1
	6.8	-3.6	14:30	10.4 7.2
	7.0	3.8	(3.3)	10.6 7.3
12+00	9.5	6.3		10.1 6.8
	10.5	7.3	14+00	9.2 5.7
	11.0	7.8		9.0 5.7
	11.4	8.2		9.2 6.7
	12.0	8.8		9.5 6.7
+50	12.0	8.8		9.0 5.7
	12.3		50	9.1 5.7
	13.2	9.1		9.5 6.2
	12.3	9.1		9.0 5.7
	12.5	9.3		9.0 5.7
	12.4	9.2		9.0 5.7
13+00	12.0	-8.8	14+90	9.0 -5.7

4-25-47 (19)

DIST	SOUND	DIST	SOUND
15+00	8.8 - 5.5	17+00	8.7 - 5.7
	8.1 4.8	(3.3)	9.5 6.2
	7.8 4.5		9.0 5.7
	8.1 4.8		9.5 6.2
	8.0 4.7		9.5 6.2
50	8.0 4.7	50	9.1 5.8
	7.5 4.2		10.0 6.7
	7.6 4.3		9.5 6.2
	7.1 3.8		9.2 5.9
	8.5 5.2		10.0 6.7
14+00	8.0 4.7	18+00	10.0 6.7
	8.1 4.8		10.2 6.9
	8.0 4.7	14:35	10.2 6.9
	7.6 4.3	(3.3)	10.4 7.1
	9.0 5.7		10.2 6.9
50	9.0 5.7	50	10.5 7.2
14:35	8.4 5.1		10.5 7.2
(3.3)	8.2 4.9		10.1 6.8
	8.4 5.1		10.0 6.7
16+90	8.6 - 5.3	18+90	10.2 - 6.9

STA 91+00			STA- 91+00			STA- 91+00		
DIST	SOUND		DIST	SOUND		DIST	SOUND	
19+00	10.6	-7.3'	21+00	12.2	-8.9'	23+00	13.4	-10.1'
(3.3)	10.8	7.5'	(3.3)	13.0	9.7'	(3.3)	12.8	9.5'
	10.1	6.8		14.0	10.7'		11.7	8.4'
	10.6	7.3		14.0	10.7'		10.6	7.3'
	11.2	7.9'		15.0	11.7'		9.0	5.7'
+50	10.8	7.5'	+50	15.5	14.2'	50	8.0	4.7'
	11.4	8.1'		16.0	14.7'	50	7.2	3.9'
	12.0	8.7'		16.4	13.1'		5.3	2.0'
<u>14:38</u>	11.2	8.9'		16.8	13.1'		5.0	1.7'
	10.6	8.3'	<u>14:41</u>	17.4	14.1'		4.4	-1.1'
20+00	11.2	7.9'	22+00	18.2	15.2'	24+00	4.0	-0.7'
	10.2	6.9		17.2	13.5'		2.8	+0.5'
	11.1	7.8		18.0	14.9'		2.2	+1.1'
	11.4	8.1'		17.1	13.8'		1.7	+1.6'
	11.3	8.0		16.4	13.1'		1.5	+1.8'
+50	12.0	8.7'	+50	15.6	12.2'	50	1.4	+1.9'
	12.0	8.7		14.5	11.3'		1.3	+2.0'
	12.5	9.2'		13.3	10.5'		1.2	+2.1'
(3.3)	12.4	9.1'	(3.3)	13.0	9.9'	(3.3)	1.1	+2.2'
20+90	11.8	-8.5'	24+90	13.8	-10.5'	24+90	1.0	+2.3'

14:46

STAKE

X

+2.6

+3.3

+3.8

+2.6

+3.3

+3.8

+2.6

+3.3

+3.8

+2.6

+3.3

+3.8

+2.6

+3.3

+3.8

+2.6

+3.3

+3.8

+2.6

+3.3

+3.8

+2.6

+3.3

+3.8

SOUND EAST

(2.0) 15.42

1

15.0

DIST SOUND

11.5

13.0

13.0

15.5

15.6

15.0

13.8

14.0

15.8

16.0

15.5

14.0

11.8

11.0

10.5

10.0

8.0

5.1

STA-80+00

ORIGINAL SOUNDING

5.8

11.5

13.0

13.0

15.5

15.6

15.0

13.8

14.0

15.8

16.0

15.5

14.0

11.8

11.0

10.5

10.0

8.0

5.1

STONES ARE FOUND AT

DIST SOUND

5.8

11.5

13.0

13.0

15.5

15.6

15.0

13.8

14.0

15.8

16.0

15.5

14.0

11.8

11.0

10.5

10.0

8.0

5.1

STA 80+00

DIST SOUND

7.2

11.5

13.0

13.0

15.5

15.6

15.0

13.8

14.0

15.8

16.0

15.5

14.0

11.8

11.0

10.5

10.0

8.0

5.1

STA 80+00

DIST SOUND

2.1

11.5

13.0

13.0

15.5

15.6

15.0

13.8

14.0

15.8

16.0

15.5

14.0

11.8

11.0

10.5

10.0

8.0

5.1

STA 80+00

DIST SOUND

2.1

11.5

13.0

13.0

15.5

15.6

15.0

13.8

14.0

15.8

16.0

15.5

14.0

11.8

11.0

10.5

10.0

8.0

5.1

STA 80+00

DIST SOUND

2.1

11.5

13.0

13.0

15.5

15.6

15.0

13.8

14.0

15.8

16.0

15.5

14.0

11.8

11.0

10.5

10.0

8.0

5.1

STA 80+00

DIST SOUND

2.1

11.5

13.0

13.0

15.5

15.6

15.0

13.8

14.0

15.8

16.0

15.5

14.0

11.8

11.0

10.5

10.0

8.0

5.1

STA 80+00

DIST SOUND

2.1

11.5

13.0

13.0

15.5

15.6

15.0

13.8

14.0

15.8

16.0

15.5

14.0

11.8

11.0

10.5

10.0

8.0

5.1

STA 80+00

DIST SOUND

2.1

11.5

13.0

13.0

15.5

15.6

15.0

13.8

14.0

15.8

16.0

15.5

14.0

11.8

11.0

10.5

10.0

8.0

5.1

STA-80+00

DIST SOUND

7+90 7.4 -5.3 3.5 -1.2

8+00 7.4 5.3 10+00 1.3 +10

" 7.4 5.3 +10 0.0 +2.3

7.0 4.9 10+20 + STAKE

50 7.1 -5.0

(2.3) 7.0 -4.7

6.5 4.2

6.3 4.0

6.2 3.9

9+00 6.4 4.1

5.7 3.4

5.1 2.8

5.0 2.7

4.0 1.7

+50 4.0 1.7

4.0 1.7

4.0 1.7

4.0 -1.7

(22)

STA 95+00 SOUND EAST
 0+00 = EAST CAUSEWAY B/L LINES ARE RUN AT 81°39'44" TO 81°

DIST		SOUND		DIST		SOUND	
0+30	0.0	+ 3.9	+20	2.0	+1.9		
+40	0.3	+ 3.6	09:30	2.0	+1.9		
09:28							
+50	0.9	+3.0		2.0	+1.9		
	1.1	+2.8	50	2.1	+1.8		
	1.1	+2.8		2.2	+1.7		
	1.2	+2.7		2.2	+1.7		
	1.2	+2.7		2.3	+1.6		
1+00	1.3	+2.6		2.3	+1.6		
	1.2	+2.7	3+00	2.4	+1.5		
(3.9)	1.3	+2.6		2.5	+1.4		
	1.4	+2.5	(3.9)	2.6	+1.3		
	1.4	+2.5		2.6	+1.3		
50	1.5	+2.4		2.7	+1.2		
	1.6	+2.3	+50	3.0	+0.9		
	1.8	+2.1		3.3	+0.6		
	1.9	+2.0		3.2	+0.7		
	2.0	+1.9	09:33	3.4	+0.5		
2+00	2.0	+1.9		3.5	+0.4		
+10	2.0	+1.9	4+00	3.4	+0.5		

5-1-17

(23)

DIST		SOUND		DIST		SOUND	
4+10	3.8	+0.1	6+10	2.8	+1.0		
	3.5	+0.4		2.5	+1.4		
	4.0	+0.6		2.4	+0.5		
	3.8	0.0	(3.7)	2.1	+1.6		
+50	3.7	+0.1	+50	2.0	+1.7		
	3.7	+0.1		2.0	+1.7		
	4.3	-0.5	09:38	2.0	+1.7		
(3.8)	3.7	+0.1		1.8	+1.9		
	3.3	+0.5		1.7	+2.0		
5+00	3.3	+0.5	7+00	1.7	+2.0		
	3.3	+0.5		1.8	+1.9		
09:35				1.8	+1.9		
	3.3	+0.5	(3.7)	2.0	+1.7		
	3.3	+0.5		2.0	+1.7		
	3.2	+0.6		2.0	+1.7		
+50	3.1	+0.7	50	2.0	+1.7		
	3.1	+0.7		2.0	+1.7		
	3.1	+0.7		1.9	+1.8		
	3.0	+0.8		1.9	+1.8		
	3.0	+0.8		1.9	+1.8		
6+00	2.9	+0.9	8+00	1.9	+1.8		

	STA	95+00			5-1-47
DIST	SOUND		DIST	SOUND	X
8+10	1.8	+1.9	+10	1.3	+2.4
<u>03:40</u>	1.7	+2.0		1.2	+2.5
	1.8	+1.9		1.1	+2.6
	1.7	+2.0		1.0	+2.7
50	1.6	+2.1	50	1.0	+2.7
	1.8	+1.9		1.0	+2.7
	1.7	+2.0		1.0	+2.7
(3.7)	1.8	+1.9		0.9	+2.8
	1.8	+1.9		0.9	+2.8
9+00	1.7	+2.0	11+00	1.0	+2.7
	1.8	+1.9		1.0	+2.7
	1.8	+1.9	(3.7)	1.0	+2.7
	1.7	+2.0		1.0	+2.7
	1.6	+2.1		1.1	+2.6
50	1.4	+2.3	50	1.2	+2.5
	1.4	+2.3		1.1	+2.6
	1.3	+2.4		1.3	+2.4
<u>09:43</u>	1.3	+2.4		1.3	+2.4
	1.3	+2.4		1.3	+2.4
10+00	1.3	+2.4	12+00	2.0	+1.7

	STA	95+00			5-1-47
DIST	SOUND		DIST	SOUND	X
70	3.0	+0.7	14+10	0.0	
	3.3	+0.4			
	3.3	+0.4			
	2.5	+1.2			
50	2.0	+1.7			
	2.0	+1.7			
(3.7)	2.0	+1.7			
	1.8	+1.9			
13+00	1.8	+1.9			
	1.8	+1.9			
	2.0	+1.7			
	2.1	+1.6			
	2.0	+1.7			
50	2.0	+1.7			
	1.3	+1.4			
	1.3	+1.4			
<u>03:48</u>	0.9	+2.8			
	0.5	+3.2			
14+00	0.1	+3.6			

STA- 96+00 SOUND EAST						STA 96+00 8-1-47						
0+00= EAST CAUSEWAY 3/4: LINES ARE RUN AT 81°39'44" DIST						SOUND DIST SOUND						
DIST	SOUND		DIST	SOUND		X	4+30		6+30		2.5	+0.7
0+50	0.0	+3.3	2+40	1.2	+2.1	10:23	1.7	+1.6			2.5	+0.7
10:17	0.1	+3.7	50	1.3	+2.0	50	1.7	+1.6	50	2.5	+0.7	
	0.2	+3.1	10:20	1.3	+2.0		1.6	+1.7	(3.2)	2.6	+0.6	
	0.3	+3.0		1.3	+2.0		1.6	+1.7		2.5	+0.7	
	0.3	+3.0		1.4	+1.9		1.7	+1.6		2.5	+0.7	
1+00	0.4	+2.9		1.5	+1.8		1.7	+1.6	10:27	2.5	+0.7	
	0.5	+2.8	3+00	1.5	+1.5	5+00	1.8	+1.5	7+00	2.3	+0.9	
	0.6	+2.7		1.6	+1.7		1.8	+1.5		2.0	+1.2	
(3.3)	0.8	+2.5		1.6	+1.7	(3.2)	1.8	+1.4		2.2	+1.0	
	0.8	+2.5	(3.3)	1.5	+1.8		1.9	+1.3	(3.2)	2.2	+1.0	
50	0.9	+2.4		1.5	+1.8		1.9	+1.3		2.1	+1.1	
	1.0	+2.3	50	1.5	+1.8	50	1.9	+1.3	50	2.0	+1.2	
	0.9	+2.4		1.5	+1.8	10:35	2.0	+1.2		1.8	+1.4	
	1.0	+2.3		1.4	+1.9		2.2	+1.0		1.8	+1.4	
	1.0	+2.3		1.4	+1.9		2.4	+0.8		1.8	+1.4	
2+00	1.0	+2.3		1.4	+1.9		2.4	+0.8		1.9	+1.3	
	1.1	+2.2	4+00	1.5	+1.8	6+00	2.7	+0.5	8+00	1.8	+1.4	
	1.2	+2.1		1.7	+1.6		2.5	+0.7		1.9	+1.3	
30	1.2	+2.1	4+30	1.7	+1.6	6+20	2.5	+0.7	8+20	2.0	+1.2	

DIST	STA- SOUND	96+00	DIST	SOUND	X
8+30	2.0	+1.2	10+30	1.4	+1.8
<u>10:30</u>	1.9	+1.3		1.4	+1.8
+50	1.8	+1.4	50	1.4	+1.8
	1.7	+1.5		1.4	+1.8
	1.6	+1.6		1.3	+1.9
	1.6	+1.6	(3.1)	1.3	+1.8
	1.6	+1.6		1.2	+1.9
9+00	1.6	+1.6	11+00	1.2	+1.9
	1.7	+1.5		1.2	+1.9
(3.2)	1.7	+1.5		1.4	+1.7
	1.7	+1.5	<u>10:33</u>	1.5	+1.6
	1.8	+1.4		1.6	+1.5
50	1.7	+1.5	50	1.6	+1.5
	1.7	+1.5	(3.1)	1.8	+1.3
	1.7	+1.5		1.6	+1.5
	1.6	+1.6		1.1	+2.0
	1.6	+ ¹⁶ 1.6		1.1	+2.0
10+00	1.6	+1.6	12+00	1.2	+1.9
	1.5	+1.7		1.4	+1.7
11/10+20	1.5	+1.7	12+20	1.0	+2.1

DIST	STA- SOUND	96+00	DIST	SOUND	5-1-47	(26)
12+30	0.7	+2.3				X
(3.1)	0.2	+2.9				
12+50	0.1	+3.0				
<u>10:35</u>						

STA - 97+00 SOUND EAST
 0+00 EAST CAUSEWAY 24' LINES ARE RUN A - 81° 33' 24" To B/2

DIST	SOUND	DIST	SOUND	X
0+55	0.0	+2.9	1.2	+1.7
1053	0.1	+2.8	50 1.2	+1.7
	0.2	+2.7	1.2	+1.7
	0.2	+2.7	1.2	+1.7
	0.3	+2.6	(2.9) 1.2	+1.7
1+00	0.4	+2.5	1.1	+1.8
	0.5	+2.4	3+00 1.1	+1.8
(2.9)	0.5	+2.4	1.2	+1.7
	0.5	+2.4	1.0	+1.9
	0.5	+2.4	<u>10:55</u> 1.0	+1.9
50	0.5	+2.4	<u>NO STAKE</u> 0.9	+2.0
	0.6	+2.3		
	0.6	+2.3		
	0.6	+2.3		
	0.8	+2.1		
2+00	0.8	+2.1		
	0.8	+2.1		
	1.1	+1.8		
	1.1	+1.8		

STA - 97+00 +5.2 - 12.0 (27)
 DIST SOUND DIST SOUND

WEST STA - 103+00 SOUNDEAST
 0+00 = EAST SIDE NORTH CAUSEWAY BRIDGE; LINES ARE RUN AT 91°39'22" TO 3/4

DIST	SOUND	DIST	SOUND
0+00	2.7	-0.1	
<u>12.16</u>	2.0	0.0	
	2.0	0.0	
(2.0)	2.3	-0.3	
	2.5	-0.5	
50	2.0	0.0	
	2.4	-0.4	
	1.5	+0.5	
	1.5	+0.5	
	1.5	+0.5	
1+00	1.0	+1.0	

SOUND EAST STA - 102+00 5-2-47
 0+00 = EAST SIDE NORTH CAUSEWAY BRIDGE; LINES ARE RUN AT 91°39'22" TO 3/4 (28)

DIST	SOUND	DIST	SOUND
35	0.0	+3.4	230 1.1 +2.3
<u>10.48</u>	0.3	+3.1	1.1 +2.3
50	1.1	+2.3	50 1.0 +2.4
(3.4)	1.3	+2.1	1.0 +2.4
	1.5	+1.9	1.1 +2.3
	1.4	+2.0	1.1 +2.3
	1.4	—	1.2 +2.2
1+00	1.4	—	300 1.2 —
	1.4	—	1.2 —
	1.5	+1.9	1.2 —
<u>10.55</u>	1.7	+1.7	(3.4) 1.2 —
	1.7	+1.7	<u>10.57</u> 1.2 —
50	1.4	+2.0	50 1.2 —
	1.3	+2.1	(3.3) 1.2 —
	1.2	+2.2	1.2 —
	1.3	+2.1	1.1 +2.3
	1.2	+2.2	1.2 +2.2
2+00	1.2	+2.2	4+00 1.2 +2.2
	1.1	+2.3	1.1 +2.3
220	1.1	+2.3	420 1.1 +2.3

STA 102+00					5-2-47	STA 102+00					5-2-47
DIST	SOUND		DIST	SOUND		DIST	SOUND		DIST	SOUND	
430	1.0	+2.4	630	1.4	+1.9	11:02 11:02	2.0	+1.3	1030 1330	2.6	+0.7
(3.3)	1.0	+2.3	(3.3)	1.5	+1.8	(3.3)	2.0	-	11:05	2.6	-
50	1.0	-	50	1.5	-	50	2.0	-	50	2.7	+0.6
	1.0	-	11:00	1.5	-		2.1	+1.2	(3.3)	2.6	+0.7
	1.1	+2.2		1.5	-		2.1	-		2.6	-
	1.1	-		1.6	+1.7		2.1	-		2.6	-
	1.1	-		1.7	+1.6		2.2	+1.1		2.6	-
500	1.1	-	700	1.7	-	900 12:00	2.3	+1.0	11:00 1400	2.6	-
	1.2	+2.1		1.7	-		2.3	-		2.5	+0.8
	1.2	-		1.8	+1.5		2.4	+0.9		2.5	-
	1.3	+2.0		1.8	-		2.4	-		2.5	-
	1.3	-		1.9	+1.4		2.4	-		2.5	-
50	1.3	-	50	1.9	-	50	2.4	-	50	2.5	-
	1.3	-		1.8	+1.3		2.4	-		2.5	-
	1.3	-		1.8	-		2.5	+0.8		2.5	-
	1.4	+1.9		1.9	+1.4		2.5	-		2.5	-
	1.4	-		1.9	-		2.5	-		2.5	-
600	1.4	-	800	2.0	+1.3	1000 1300	2.5	-	1200 1500	2.5	-
	1.5	+1.8		2.0	-		2.5	-		2.5	-
620	1.4	+1.9	820	2.0	-	1020 1320	2.6	+0.7	1220 1520	2.5	-

5-2-41					5-2-47 (30)						
DIST	STA- SOUND	102+00	DIST	SOUND	X	DIST	STA- SOUND	102+00	DIST	SOUND	X
1230 1530	2.6	+0.7	1430 1730	8.0	-4.1	1630 1930	2.7	+0.5	1830	2.3	+0.9
	2.7	+0.6		8.0	-	1112 <u>(3.2)</u>	2.7	-	1115	2.0	+1.7
50	2.8	+0.5	50	7.8	4.5	10	2.6	+0.6	50	1.5	+1.7
	3.0	+0.3		7.8	-		2.6	-	<u>(3.2)</u>	1.3	+1.9
11:08	3.1	+0.2	<u>(3.3)</u>	7.4	4.1		2.6	-		1.3	-
<u>(3.3)</u>	3.2	+0.1		7.4	-		2.7	+0.5		1.3	-
	3.8	-0.5		7.0	3.7		2.7	-		1.3	-
1300 1600	4.2	-0.9	1500 1800	6.0	2.1	1700 2000	3.7	-	1900 200	1.3	-
	4.4	-1.1		5.6	2.3		2.7	-		1.4	+1.8
	5.0	1.7		5.2	1.9		2.7	-		1.4	-
	5.7	2.4		5.0	1.7		2.7	-		1.4	-
	6.0	2.7		5.0	-		2.7	-		1.4	-
50	5.7	2.4	50	4.6	1.3	50	2.7	-	50	1.4	-
	5.7	-		4.1	-0.8		2.5	+0.7		1.6	+1.6
	6.0	2.7		4.1	-		2.5	-		1.7	+1.5
	6.4	3.1		3.8	-0.5		2.5	-	<u>(3.2)</u>	1.8	+1.4
	7.7	4.4		3.8	-		2.5	-	11:18	1.9	+1.3
1400 1700	7.7	-	1600 1900	3.7	-0.4	1800 200	2.5	-	2000	1.8	STAKE
	8.0	-4.7	<u>(3.3)</u>	3.1	+0.7		2.5	-	<u>(3.1)</u>		
1420 1720	8.0	-	1620 1920	2.8	+0.8		2.5	-			

STA 97+00
ORIGINAL SOUNDINGS

0+00 = EAST CAUSEWAY 3/4 LINES ARE RUN AT 81°39'44" TO 81/2

DIST	SOUND	DIST	SOUND
1750			
1760	1.4 +0.9	50	4.1 -1.8
12:41	1.4 -		4.5 -2.2
(2.3)	1.5 +0.8		4.7 -2.2
	1.4 +0.9		4.8 -2.2
18+00	1.4 -		4.7 -2.4
	1.4 -	2000	4.7 -
	1.0 +1.3		4.6 -2.5
	0.9 +1.4		4.5 -2.7
	0.7 +1.6	(2.3)	4.5 -
50	0.5 +1.8	12:45	4.2 -1.8
	0.6 +1.7	50	4.0 -1.8
	1.1 +1.2	(2.2)	2.8 -0.6
	1.3 +1.0		2.9 -0.1
	1.6 +0.7		2.1 +0.1
1900	2.2 +0.1		2.0 +0.2
	4.1 -1.8	2100	2.2 0.0
	4.5 -2.2		2.3 -0.1
	4.0 -1.7		2.5 -0.3
	4.0 -		2.6 -0.4

STA - 97+00
5-2-47

(31)

DIST	SOUND	DIST	SOUND
(2.2)	2.8 -0.6		
50	3.0 -0.8		
	3.1 -0.9		
	3.0 -0.8		
	3.0 -		
	2.5 -0.3		
2200	2.1 +0.1		
	1.5 +0.7		
	1.1 +1.1		
	1.0 +1.2		
	1.0 -		
50	1.0 -		
	0.8 +1.4		
12:49	0.7 +1.2		
(2.2)	0.6 +1.6		
	0.6 -		
	0.6 -		
	0.6 -		
2300	0.6 -		
	0.6 -		
20	0.6 -		

SOUND EAST
 0+00 = RANGE LINE 132: LINES ARE RUN AT 90°00'00" To RANGE LINE

STA - 110 + 00 "ORIGINALS"

5-6-47

DIST	SOUND		DIST	SOUND	
					X
			390		
			400		
09:47	2.3	+1.1	200	6.0	-2.6
0+10					
(3.4)	2.5	+0.9	09:50	5.5	2.1
	3.3	+0.1	(3.4)	4.7	1.3
	4.2	-0.8		4.7	-
50	4.3	-0.9		4.4	1.0
	4.7	-1.3	50	4.4	-
	6.1	2.7		4.5	1.1
	6.6	3.2		4.9	1.5
	7.1	3.7		5.0	1.6
18 28	6.9	3.5		5.0	-
1+00				5.0	-
	6.9	-	2028	300	5.0
	6.7	3.3		4.1	-0.2
	6.5	3.1		2.4	+1.0
	6.4	3.0		1.7	+1.1
50	6.1	2.7		1.4	+2.0
	5.8	2.4	50	1.2	+2.2
	5.4	2.0		1.3	+2.1
3.4	5.4	-		1.5	+1.9
190	5.4	-	380	1.6	+1.8

STA - 110 + 00
 SOUND DIST SOUND

5-6-47

(32)

DIST

1.5	+1.9	590	8.7	-1.3	
		23 28			
1.4	+2.0	600	9.1	1.7	
(3.4)	1.3	+2.1	(3.4)	9.4	6.0
1.3	-		9.5	6.1	
09:53			9.4	6.0	
1.5	+1.9		9.4	6.0	
1.3	+2.1	09:55	9.4	-	
50	1.7	+1.7	50	9.3	1.9
1.3	+2.1		8.6	1.2	
1.4	+2.0		8.4	1.0	
1.2	+2.2		8.2	4.8	
1.1	+2.3		7.8	4.4	
24 28			7.2	3.8	
500	1.0	+2.4	700	7.2	3.8
1.0	-		6.4	3.0	
1.2	+2.2		5.8	2.4	
1.3	+2.1		5.2	1.8	
1.3	-		4.0	-0.6	
50	1.6	+1.8	50	2.7	+0.7
1.8	+1.6		2.0	+1.4	
2.2	+1.2	(3.4)	1.3	+2.1	
580	7.0	-3.4	780	1.3	-

STA - 110 + 00				5-6-47	
DIST	SOUND		DIST	SOUND	X
790	1.2	+2.7	990	3.4	00
^{25 28} 800	1.2	-	^{27 28} 1000	3.1	+0.3
(3.4)	1.3	+2.1	(3.4)	2.4	+1.0
	1.4	+2.0	^{10:00}	2.0	+1.4
	1.5	+1.9	(3.5)	1.4	+2.2
<u>09:58</u>	1.5	-		1.4	-
50	1.7	+1.7	50	1.2	+2.7
	2.0	+1.4		1.1	+2.3
	2.4	+1.0		1.1	-
	2.4	-		1.2	+2.1
	2.8	+0.6		1.1	+2.3
^{26 28} 900	2.9	+0.5	^{28 28} 1100	1.1	-
	3.0	+0.4		1.0	+2.4
	3.9	-0.5		1.0	-
	4.0	-0.6		1.0	-
	4.8	-1.4		1.0	-
50	4.6	-1.2	50	1.0	-
	4.8	-1.4		0.9	+2.5
	4.8	-	<u>10:09</u>	0.9	-
980	4.3	-0.9	1180	0.8	+2.6

STA 110 + 00				5-6-47	
DIST	SOUND		DIST	SOUND	X
1190	0.5	+2.9			
^{29 28} 1200	0.4	+3.0			
			^{10:05}		
			(3.5)		

(33)

SOUND EAST STA - 109 + 00 5-6-47
 "ORIGINALS"
 0+00=RANGE LINE 132: LINES ARE RUN AT 90°00'00" TO RANGE LINE

DIST	SOUND		DIST	SOUND	
10:28 1793 0 +10	2.3	+1.4	1913 200	5.7	-2.0
(3.7)	2.3	-	(3.7)	6.5	2.8
	2.3	-		6.7	3.0
	2.3	-		6.7	-
50	2.4 3.	+1.3		6.7	-
	2.3	+1.4	50	6.6	2.9
	2.3	-		6.1	2.0
	2.4	+1.3		6.0	2.3
	2.4	-		6.0	-
1813 100	2.4	-		5.7	2.2
	2.4	-	2013 300	5.7	1.1
10:30	2.5	+1.2		5.3	1.6
	2.6	+1.1		5.0	1.5
	2.5	+1.2		5.0	-
50	2.5	-	10:33	4.8	1.1
	2.5	-	50	5.0	1.3
(3.7)	2.8	+0.9		5.0	-
	3.9	-0.2	(3.7)	5.0	-
190	5.0	-1.3	380	5.2	-1.1

STA - 109 00 5-6-47 (3+)

DIST	SOUND		DIST	SOUND	
390	3.4	+0.3	590	1.4	+2.3
2113 400	3.4	+0.3	2313 600	1.8	+1.9
	3.0	+0.7		3.7	0.0
(3.7)	3.0	-		6.8	-3.1
	3.0	-		7.9*	
				11.9	4.2
	2.2	+1.5		9.0	5.3
50	2.2	-	50	9.7	6.0
	2.0	+1.7		10.0	6.3
	2.0	-		9.8	6.1
2135	1.8	+1.9		10.5	6.8
	1.8	-	(3.7)	9.2	5.5
2213 500	1.8	-	2413 700	8.9	5.2
	2.0	+1.7	10:38	9.0	5.3
	2.8	+0.9	(3.8)	8.6	-4.8
	2.7	+1.0		8.1	4.3
	2.5	+1.2		7.1	3.9
50	2.0	+1.7	50	7.1	-3.3
	1.8	+1.9		1.0 ⁷	+2.8
(3.7)	1.7	+2.0		6.0	-2.2
580	1.5	+2.2	780	5.6	-1.8

STA - 109 + 00		5-6-47	
DIST	SOUND	DIST	SOUND
790	5.2 -1.4	990	3.1 2.7 +0.7
²⁷¹³ 800	5.0 1.2	²⁷¹³ 1000	3.8 0.0
(3.8)	4.6 0.8	(3.8)	3.8 -
	4.0 -0.7		3.5 +0.3
	3.5 +0.3		4.0 -0.7
	2.7 +1.1		4.5 -0.7
50	2.0 +1.8	50	4.8 -1.4
	1.5 +2.3		5.0 -1.7
	1.4 +2.4		4.8 -1.0
<u>10:40</u>	1.4 -	<u>10:43</u>	4.5 -0.7
	1.3 +2.5		4.4 -0.6
²⁶¹³ 900	1.4 +2.4	²⁸¹³ 1100	3.7 +0.1
	1.5 +2.3		3.2 +0.6
	1.6 +2.2		3.0 +0.8
	1.7 +2.1		2.8 +1.0
	1.8 +2.0		2.1 +1.7
50	2.0 +1.8	50	2.1 -
	2.4 +1.4		2.0 +1.5
(3.8)	3.0 +0.8	(3.8)	1.8 +2.0
980	3.0 -	1180	1.7 +2.1

STA 109 + 00		5-6-47	
DIST	SOUND	DIST	SOUND
1190	1.4 +2.4		
²⁹¹³ 1200	1.4 -		
	1.3 +2.5		
	1.3 -		
	1.4 +2.4		
	1.4 -		
50	1.4 -		
<u>10:45</u>	1.4 -		
	1.3 +2.5		
	1.2 +2.6		
	1.0 +2.8		
³⁰¹³ 1300	0.8 +3.0		
(2.8)			

SOUND EAST		STA - 108 + 00 "ORIGINALS"				STA - 108 + 00		5-6-47		(36)	
0+00 = RANGE LINE 132; LINES ARE RUN AT 90° 06' 00" TO RANGE LINE		DIST				SOUND		DIST		SOUND	
DIST	SOUND	DIST	SOUND	X	DIST	SOUND	DIST	SOUND	DIST	SOUND	
¹⁶⁹⁸ 0+10	2.4 +1.5'	¹⁸⁹⁸ 200	2.5 +1.4'	3.90	²⁰⁹⁸ 400	5.6 -1.7'	590	1.3 +2.6'			
<u>11:03</u>	2.4 -		2.5 -	(3.9)		6.0 2.1'	(3.9)	1.0 +2.9'			
(3.9)	2.3 +1.6'	(3.9)	2.5 -			6.1 2.2'		1.0 -			
	2.3 -		2.5 -			6.1 -		1.0 -			
50	2.3 -		2.4 +1.5'			6.1 -		1.0 -			
	2.3 -	50	2.5 +1.4'	50	6.0 2.1'	50	1.4 +2.5'				
	2.3 -		2.4 +1.5'		5.6 -1.7'		1.5 +2.4'				
	2.3 -		2.6 +1.3'		3.2 +0.7'		7.0 -3.1'				
	2.3 -		3.3 +1.6'		3.1 +0.8'		7.8 -3.9'				
¹⁷⁹⁸ 100	2.3 -		5.0 -		3.0 +0.9'		8.7 4.8'				
	2.4 +1.5'	¹⁹⁹⁸ 300	6.4 -	²¹⁹⁸ 500	3.0 -	²³⁹⁸ 700	9.3 5.4'				
	2.4 -		6.8 2.1'		^{2.4} 3.4 +1.5'		10.0 6.1'				
	2.4 -		7.0 3.1'		2.0 +1.9'		9.8 5.9'				
	2.4 -		7.0 -		1.7 +2.2'		9.7 5.8'				
50	2.4 -		6.6 2.1'		1.5 +2.4'		9.6 5.7'				
	2.4 -	50	6.4 2.1'	50	1.3 +2.6'	50	9.4 5.5'				
<u>11:05</u>	2.4 -	<u>11:08</u>	6.5 2.6'	<u>11:10</u>	1.3 -		9.0 5.1'				
(3.9)	2.5 +1.4'	(3.9)	6.1 2.2'	(3.9)	1.4 +2.5'	(3.9)	9.0 -				
190	2.5 -	380	6.1 -2.2'	580	1.4 +2.5'	780	8.4 -4.5'				

STA - 108 + 00						STA - 108 + 00					
DIST	SOUND		DIST	SOUND	X	DIST	SOUND		DIST	SOUND	X
790	8.0	-4.1	990	1.5	+24	1190	4.4	-0.5	1390	0.7	+3.2
²⁴⁹⁸ 800	7.6	3.7	²⁶⁹⁸ 1000	1.5	-	²⁸⁹⁸ 1200	4.0	-0.1	³⁰⁹⁸ 14,00	0.7	-
(3.9)	7.1	3.7	11:15	1.5	-	(3.9)	3.7	+0.2		0.8	+3.1
	6.7	2.8	(3.9)	1.5	-		3.5	+0.4	11:20	0.8	-
	6.5	2.6		1.4	+2	11:18	3.1	+0.8	(3.9)	0.8	-
11:43	6.0	2.1		1.4	-		3.0	+0.9		0.7	+3.2
50	5.8	1.9	50	1.7	+22	50	3.0	-	50	0.7	-
	5.8	-		1.9	+20		3.0	-		0.8	+3.1
	5.5	1.6		2.0	+19		2.5	+1.4		1.1	+2.8
	5.4	1.5		2.2	+17		2.4	+1.5		1.0	+2.9
	5.6	1.7		2.3	+16		2.3	+1.6		1.0	-
²⁴⁹⁸ 900	5.5	1.6	²⁷⁹⁸ 1100	2.4	+15	²⁹⁹⁸ 1300	2.2	+1.7	³¹⁹⁸ 1500	1.1	+2.8
	4.8	0.9		2.6	+13		2.0	+1.9		1.5	+2.4
	4.4	-0.5		2.8	+11		1.8	+2.1		2.0	+1.9
	3.1	+0.8		3.2	+0.2		1.7	+2.2		2.5	+1.4
	2.4	+1.5		3.5	+0.4		1.6	+2.3		3.5	+0.4
50	1.8	+2.1	50	3.8	+0.1	50	1.5	+2.4	50	4.3	-0.4
	1.7	+2.2		4.5	-0.6		1.3	+2.6		4.9	-1.0
	1.9	+2.0	(3.9)	4.8	-0.9		1.0	+2.9	(3.9)	6.0	-2.1
980	1.6	+2.3	1180	4.7	-0.8	1380	0.8	+3.1	1580	6.5	-2.6

STA. 708+00			WEST			STA. 106+00 "ORIGINALS"			5-6-47 (38)			
DIST	SOUND		DIST	SOUND	X	DIST	SOUND	DIST	SOUND	X		
1590	6.8	-2.9	1790	7.6	-3.7							
³²⁹⁸ 1600	6.8	-	³⁴⁹⁸ 1800	7.8	-3.7	^{12:45} 0+00	1.4	+2.2	190	1.7	+1.9	
(3.9)	7.5	-3.6	<u>11:25</u>	7.8	-	^{12:45}	1.4	-	^{14:09} 200	1.8	+1.8	
	7.4	-3.5	(3.9)	8.0	-4.1	(3.6)	1.4	-		1.5	+2.1	
	7.0	-3.1		8.0	-		1.4	-	(3.6)	1.7	+1.9	
	7.6	-3.7		8.0	-		1.4	-		1.7	-	
50	7.6	-	50	8.0	-	50	1.4	-	<u>12:53</u>	1.5	+2.1	
	7.5	-3.6		8.0	-		1.6	+2.0	50	1.5	-	
<u>11:23</u>	7.5	-		8.1	-4.1		1.5	+2.1		1.7	+1.9	
	7.5	-		8.2	-4.1		1.4	+2.2		1.6	+2.0	
	7.5	-		8.4	-4.1		1.6	+2.0		1.6	-	
³³⁹⁸ 1700	7.5	-	³⁵⁹⁸ 1900	8.1	-4.2	^{13:00}	1.5	+2.1		1.7	+1.9	
	7.5	-		8.0	-4.1	^{13:00}	1.5	-	^{13:69} 300	1.8	+1.8	
	7.5	-		7.5	-3.7		1.5	-		1.9	+1.7	
	7.2	-3.3		6.8	-2.9		1.5	-		1.9	-	
	7.3	-3.4		7.5	-3.7		1.4	+2.2		1.9	-	
50	7.3	-	50	7.4	-3.7	50	1.4	-		2.0	+1.6	
	7.3	-		6.0	-2.1		1.4	-	50	2.0	-	
	7.4	-3.5	<u>11:28</u>	6.0	-	(3.6)	1.4	x -	<u>12:55</u>	(3.6)	2.1	+1.5
	7.6	-3.7	(3.9)	6.0	-							
1780	7.6	-3.7	³⁶⁹⁸ 2000	6.3	-2.9	180	1.7	+1.9	370	2.1	x -	
				6.5	-2.9							

STA - 106+00		5-6-47	
DIST	SOUND	DIST	SOUND
380	2.3 +1.3	580	1.9 +1.6
(3.6)	2.4 +1.2		1.6 +1.9
^{11:49} 400	2.5 +1.1	^{10:49} 600	1.5 +2.0
	2.6 +1.0	^{13:00}	1.5 -
	2.9 +0.7	(3.5)	2.0 +1.5
	3.0 +0.6		2.5 +1.0
	3.1 +0.5		1.5 +2.0
50	3.0 +0.6	50	1.6 +1.2
	3.0 -		1.6 -
(3.6)	2.6 +1.0		1.8 +1.1
^{12:58}	2.5 +1.1		1.7 +1.0
(3.5)	2.3 +1.2	^{13:02}	1.9 +1.5
^{11:49} 500	2.0 +1.5	^{9:49} 700	1.6 +1.9
	1.9 +1.6		1.6 -
	1.9 -		1.7 +1.5
	1.6 +1.9		1.8 +1.2
	1.5 +2.0	(3.5)	1.8 -
50	1.5 -	50	2.0 +1.5
	1.8 +1.7		2.3 +1.2
570	1.9 +1.6	770	2.4 +1.1

STA - 106+00		5-6-47	
DIST	SOUND	DIST	SOUND
780	2.4 +1.1	980	3.0 +0.5
	2.2 +1.3		3.1 +0.4
^{11:49} 800	2.3 +1.2	^{10:49} 1000	4.0 -0.5
	2.4 +1.1	(3.5)	4.6 -1.1
(3.5)	2.8 +0.7	(3.4)	4.9 -1.5
	2.8 -		4.9 -
	2.8 -		4.6 -1.2
50	2.9 +0.6	50	4.7 -1.3
	3.0 +0.5		5.0 -1.6
	2.9 +0.6		5.3 -1.9
	2.9 -	^{13:10}	5.0 -1.6
	3.0 +0.5		5.0 -
^{11:49} 900	2.8 +0.7	^{10:49} 1100	5.5 -2.1
	3.0 +0.5		5.6 -2.2
	3.3 +0.7		5.3 -1.9
	3.3 -		5.5 -2.1
	3.3 -		5.8 -2.4
50	3.3 -	50	6.0 -2.6
	3.6 -0.1	(3.4)	5.7 -2.3
970	3.5 +0.0	1170	5.5 -2.1

STA-106+00				STA-106+00				56-47(40)	
DIST	SOUND		DIST	SOUND	X	DIST	SOUND	DIST	SOUND
1180	5.5	-2.1	1380	5.3	-1.9	1580	5.5	-2.1	X
	5.5	-		5.1	1.7		5.9	2.5	
⁴⁶⁹ 1200	6.3	-2.9	²⁶⁹ 1400	5.1	-	⁴¹ 1420	6.0	2.6	
(3.4)	6.0	2.6	(3.4)	5.0	1.6		6.4	3.0	
	5.3	1.9		5.0	-		6.0	2.6	
	5.1	1.7		5.0	-		7.8	4.4	
<u>13:13</u>	5.0	1.6		5.0	-		7.5	4.1	
50	5.1	1.7	50	5.0	-	50	7.6	4.2	
	5.0	1.6		5.0	-		7.5	4.1	
	5.0 x	-		5.0 x	-		7.0	3.6	
	4.8	1.4		5.2	-		6.0	2.6	
	4.6	1.2		5.3	-		5.5 ^{-2.1}	_{past bridge}	
³⁶⁹ 1300	4.9	1.5	¹⁶⁹ 1500	5.7	-				
	4.9	-		6.0	-	(3.4)			
	5.0	1.6		5.8	-				
	5.0	-		5.7	-				
	5.0	-		5.7	-				
13:15 50	5.1	1.7	50	5.7	-				
(3.4)	5.3	-1.9	(3.4)	5.8	-				
1370	5.3 x	-	1570 x	5.8 x	-				

SOUND STA - 83 + 00 "ORIGINALS" 5-6-47
 East CAUSEWAY #2 LINES ARE RUN AT 81°30'44" T. R/L
 0+00 = EAST CAUSEWAY #2 LINES ARE RUN AT 81°30'44" T. R/L
 T EAST CAUSEWAY STA - 83+00 +3.95 15.00 - 11.05 ? X
 9145 395 500

125 E	12.1	13.1	+1.9
141 E	12.1	12.1	+2.9
186 E	11.7	11.7	+3.3
223 E		11.8	+3.2
242 E		13.0	+2.0

STA - 104 + 00 "ORIGINALS" 5-6-47 (41)
 0+00 = RANGE LINE 132 LINES ARE RUN AT 90°00'00" T. R/L
 10:20 11.1
 +5.35 7.35 - (2.3) X

1620 R-132 STA-104+00 0+00	5.3	+2.0
1625 E 38	5.0	+2.3
1728 E 88	4.9	+2.5
1794 E 152	4.9	+2.4
1863 E 223	4.6	+2.7
1958 E 278	4.7	+2.7
1967 E 322	4.7	+2.6
1970 E 330	5.8	+1.6

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STA-103+00

"ORIGINALS"

5-9-47

0+00 = RANGE LINE 132: LINES ARE RUN AT 90° 00' 00" To R/L

	H.I.		
K R-132 STA-103+00	10:33 + 4.6 WATER LEVEL	7.00	(2.4)
E 340 1965		4.5	+ 2.5
E 320 1945		3.8	+ 3.2
E 180 1905		3.7	+ 3.3
E 240 1865		3.8	+ 3.2
E 173 1795		4.5	+ 2.7
E 128 1753		4.8	+ 2.2
E 45 1670		4.5	+ 2.5
0+00 1625		5.0	+ 2.0

CONT- PAGE (47)

STA-105+00

"ORIGINALS"

5-9-47 (72)

0+00 = RANGE LINE 132: LINES ARE RUN AT 90° 00' 00" To R/L

	H.I.		
K R-132 STA-105+00	10:45 + 5.10 w/h	7.60	(2.5)
0+00 1670		5.0	+ 2.6
E 22		5.1	+ 2.5
1726 E 72		4.9	+ 2.7
1503 E 149		4.9	+ 2.7
1864 E 210		4.8	+ 2.8
1918 E 264		4.7	+ 2.9
1964 E 310		4.9	+ 2.7

CONT- PAGE- (44)

RUN EAST STA- 106 +00 "ORIGINALS" 5-9-47
 0+00 = RANGE LINE 132 : LINES ARE RUN AT 90°00'00" To R/H
 16 69 H.I. H.I.
 X R-132 +4.45 7.05 - (2.6) X
 STA-106+00

1969			
E 300	4.9	+2.2	
18 77			
E 208	4.7	2.4	
18 11			
E 142	4.7	+2.3	
17 59			
E 90	4.8	+2.2	
17 10			
E 41	4.9	+2.2	
16 68			
6700	5.0	+2.1	

CONT-PAGE - (45)

SOUND EAST STA- 103 +00 "ORIGINALS" 5-9-47 (23)
 0+00 = RANGE LINE 132 : LINES ARE RUN AT 90°00'00" To R/H
 11:13 340 SOUND DIST SOUND
 3.4 -0.8 X

1970					
350	0.9	+1.7	50	2.4	+0.2
(2.6)	1.1	+1.5	(2.6)	2.4	+0.2
11	1.2	+1.4		3.3	-0.7
11:13					
11:13	1.4	+1.2		4.0	+1.4
11:13	1.6	+1.0		4.8	-2.2
11:13	1.8	+0.8	600	5.1	-2.5
11:13	2.1	+0.5	(2.6)	5.3	-2.7
11:13	2.4	+0.2	(2.6)	6.0	-3.4
11:13	2.5	+0.1	(2.7)	6.5	-3.8
11:13	2.5	-		6.0	-3.3
11:13	2.5	-	50	5.8	-3.1
11:13	2.7	-0.1		5.7	-3.0
11:13	2.6	0.0		5.3	-2.6
11:13	2.5	+0.1		4.5	-1.8
11:13	2.5	-		2.5	+0.2
11:13	2.5	-	700	1.6	+1.1
11:13	2.5	-		0.5	+2.2
11:13	2.6	0.0	720	+	?
11:13	3.4	-0.8	30		

SOUND EAST STA -104+00 "ORIGINALS" 5-9-47
 0+00 = RANGE LINE 132: LINES ARE RUN AT 90°00'00" To R/L

DIST	SOUND		DIST	SOUND	X
11:27 330			520	3.8	-0.9
(2.9) 1980 340	1.3	+1.6'	(2.9)	4.8	-1.9
50	1.4	+1.5'		5.5	-2.6
	1.5	+1.4	50	5.9	-3.0
	1.9	+1.0		6.0	-3.1
	2.1	+0.8		6.4	-3.5
	2.3	+0.6		6.2	-3.3
2040 400	2.9	0.0		6.2	—
	2.5	+0.4	2240 600	5.7	-2.8
	2.7	+0.2	11:30 60	4.5	-1.6
	3.0	-0.1	60	3.8	-0.9
	3.7	-0.8	80	3.3	-0.4
50	3.7	—	80	2.6	+0.3
	3.4	-0.5	90 50	2.0	+0.9
	3.0	-0.1	2300 0.8		+2.1
	3.0	—	670 (10) STAKE 660	0.1	+7.8
	2.7	+0.2	x		
2140 500	3.0	-0.1	(2.9)		
510	3.7	-0.8	2340 700		

SOUND EAST STA -105+00 "ORIGINALS" 5-9-47 (47)
 0+00 = RANGE LINE 132: LINES ARE RUN AT 90°00'00" To R/L

DIST	SOUND		DIST	SOUND	X
11:37 114 310			500	6.8	-3.8
320	0.6	+2.4		7.3	-4.3
(3.0) 30	1.1	+1.9		7.3	—
	1.2	+1.8		7.0	-4.0
50	1.8	+1.2		7.8	-4.8
	2.4	+0.6	50	6.6	-3.6
	2.8	+0.2	11:40 5.0		-2.0
	2.5	+0.5	(3.0) 2.8		+0.7
	2.9	+0.1		2.1	+0.9
400	3.2	-0.2		1.9	+1.1
	3.5	-0.5	2250 600	1.0	+2.0
	3.1	-0.1		0.3	+2.7
	3.5	-0.5	620		+?
	3.1	-0.1			
50	3.6	-0.6			
	3.8	-0.8			
	4.5	-1.5			
	5.1	-2.1			
470	6.3	-3.3			

SOUND EAST STA-106+00 "ORIGINALS" 5-9-47
 0+00=RANGE LINE 132; LINES ARE RUN AT 90°00'00" To R/L

SOUND EAST STA-107+00 "ORIGINALS" 5-9-47 (45)
 0+00=RANGE LINE 132; LINES ARE RUN AT 90°00'00" To R/L

DIST	SOUND		DIST	SOUND	X
12:25 300			490	8.1	-4.7
1979 310	1.0	+2.4	12:28 500	7.9	-4.5
(3.4) 89	1.3	+2.1	2109 (3.4)	7.0	-3.6
'99	1.4	+2.0		6.5	-3.1
2009	2.3	+1.1		5.1	-1.7
19 50	2.8	+0.6		2.5	+0.9
21	3.5	-0.1	50	1.0	+2.4
39	3.6	-0.2		0.3	+3.1
49	3.4	-0.0		0.1	+3.3
59	3.4	-		0.3	+3.1
2069 400	3.4	-		0.1	+3.3
	3.4	-	2269 600	STAKE +?	
	3.5	-0.1			
	3.8	-0.4			
	4.8	-1.4			
50	6.2	-2.8			
	6.8	-3.4			
	7.8	-4.4			
480	8.2	-4.8			

DIST	SOUND		DIST	SOUND	X
1684 0+00	1.3	+2.1	190	1.5	+1.9
13:42 1684	1.3	-	1884 200	1.5	-
(7.4) 1684	1.3	-	12:45	1.6	+1.8
14	1.4	+2.0	(3.4)	1.6	-
16	1.4	-		1.8	+1.6
2150	1.4	-		1.7	+1.7
42	1.4	-	50	1.7	-
52	1.4	-		1.8	+1.6
62	1.5	+1.9		1.8	-
72	1.5	-		1.8	-
784 100	1.6	+1.8		2.0	+1.4
	1.7	+1.7	1984 300	2.2	+1.2
	1.5	+1.9		2.5	+0.9
	1.5	-		2.7	+0.7
	1.5	-		3.0	+0.4
50	1.4	+2.0		3.2	+0.2
	1.6	+1.8	50	3.7	-0.3
	1.6	-		3.8	-0.4
180	1.5	+1.9	70	4.0	-0.6

SOUND EAST DIST				STA - 107 + 00				STA - 107 + 00				(4)
DIST	SOUND	DIST	SOUND	DIST	SOUND	DIST	SOUND	DIST	SOUND	DIST	SOUND	
380	5.0	-1.6	^{13:05} 570	0.1	+3.3	770	8.8	-5.4	970	4.7	-1.2	
(3.4)	6.0	-2.6	(3.4)	0.2	+3.2	(3.4)	9.0	-5.6	(3.5)	4.9	-1.4	
^{20:54} 400	6.2	-2.8		0.1	+3.3		9.1	-5.7		4.9	-	
	6.2	-	²²⁸⁴ 600	0.0	+3.4	²⁴⁸⁵ 800	9.0	-5.6	²⁶⁸⁴ 1000	4.9	-	
	6.0	-2.6		0.1	+3.3		8.6	-5.2		4.0	-0.5	
	6.8	-3.4		0.2	+3.2		8.0	-4.6		3.7	-0.2	
	7.5	-4.1		0.1	+3.3		8.0	-		3.0	+0.5	
50	7.8	-4.4		+0.3	+3.1		7.7	-4.3		2.8	+0.7	
	7.8	-	50	+0.3	-	30	7.3	-3.9	50	2.4	+1.1	
	7.5	-4.1		+0.4	+3.0		7.0	-3.6	^{13:13}	2.0	+1.5	
<u>12:48</u>	7.0	-3.6		+0.5	+2.9	(3.4)	6.8	-3.4		2.0	-	
	5.7	-2.3		+0.4	+3.0	^{13:10}	6.6	-3.2		2.1	+1.4	
²¹⁸⁴ 500	3.8	-0.4		+0.2	+3.2	(3.5)	6.6	-3.1		2.1	-	
	2.5	+0.9	²³⁸⁴ 700	0.0	+3.4	²⁵⁸⁴ 300	6.5	-3.0	²⁷⁸⁴ 1100	2.3	+1.2	
	1.5	+1.9	^{13:08}	1.7	+1.3		6.0	-2.5		2.4	+1.1	
	1.0	+2.4		3.0	+0.2		5.7	-2.2		2.5	+1.0	
	0.5	+2.9		6.0	-2.6		5.3	-1.8		2.8	+0.7	
50	0.5	-	(3.4)	7.8	-4.2		5.1	-1.6	(3.5)	2.0	+1.5	
	0.1	+3.3	50	8.5	-5.1	50	5.0	-1.5	50	1.8	+1.7	
560	STAKE 0.0	+3.4	760	8.8	-5.4	960	5.2	-1.7	1160	1.7	+1.8	

SOUND	STA		DIST	SOUND	5-9-47
	STA -107+00				
DIST	SOUND		DIST	SOUND	X
1170	1.6	+1.9	1370	1.4	+2.1
(3.5)	1.6	-	(3.5)	1.1	+2.2
	2.0	+1.5		1.0	+2.3
2884 1200	2.3	+1.2	3084 1400	0.8	+2.4
13:45	2.3	-		0.6	+2.5
	2.5	+1.0		0.6	-
	2.6	+0.9		0.5	+3.0
	2.5	+1.0	13:18 Y	0.5	-
50	2.5	-	50	0.5	-
	2.5	-		0.6	+2.6
	2.3	+1.2		1.4	+2.7
	2.0	+1.5		2.3	+1.8
	2.0	-		2.8	+0.9
2984 1300	2.0	-	3184 1500	3.7	-0.5
	1.9	+1.6		5.1	-1.6
	1.6	+1.9		5.8	-2.1
	1.5	+2.0		6.0	-2.3
	1.5	-		6.2	-2.5
50	1.5	-	50	6.5	-3.0
1360	1.5	-	1560	6.8	-3.3

SOUND	STA		DIST	SOUND	5-9-47
	STA -107+00				
DIST	SOUND		DIST	SOUND	
1570	6.8	-3.3	1770	8.5	-5.0
(3.5)	7.0	-3.5	(3.5)	8.7	-5.2
	7.0	-		8.7	-
3284 1600	7.2	-3.7	3484 1800	8.7	-
	7.0	-3.5		8.7	-
	7.0	-		8.8	-5.3
	7.0	-		8.7	-5.2
	7.0	-		8.6	-5.1
50	7.0	-	50	8.6	-
	6.9	-3.4		8.5	-5.0
	6.9	-		8.8	-5.3
	6.9	-	13:23	8.0	-4.5
	6.9	-		7.7	-4.2
3384 1700	7.0	-3.5	3584 1900	7.7	-
	7.1	-3.6		7.5	-4.0
	7.4	-3.9		7.4	-3.9
	7.8	-4.3		7.2	-3.7
	8.4	-4.9	(3.5)	7.1	-3.6
50	8.5	-5.0	50	7.0	-3.5
1700	8.4	-4.9	1960	6.8	-3.3

	STA	107+00	5-9-47		
1970	6.6	-3.1	2170	1.5	+2.0
(3.5)	6.4	-2.9		1.4	+2.1
	6.0	-2.5	(3.5)	1.3	+2.2
3684 2000	5.8	-2.3	3584 2200	1.3	-
	5.1	-1.6	2210	1.2	COMP +2.3
	4.5	-1.0			
	4.0	-0.5			
	3.8	-0.3			
50	3.5	0.0	50		
	3.0	+0.5			
	2.6	+0.9			
	2.1	+1.4			
	2.0	+1.5			
3784 2100	2.0	-			
	1.8	+1.7			
	1.8	-			
1325	1.7	+1.8			
	1.7	-			
50	1.6	+1.9			
2160	1.5	+2.0			

	STA-106+00	"ORIGINALS"	(48)
	132 LINES ARE RUN AT 90° 00' 00" TO R/L		
	H.I.		
	+5.1	8.70	-
			X
			(3.6)
			+3.6
			+3.6
			+3.7
			-
			+3.9
			-
			+3.7
			+3.6
			+3.4
			+3.7
			+3.1
			SOUND
			DIST
	0.5	+3.1	9.0
	(3.6)	+2.0	9.2
	2.4	+1.7	9.1
	2.5	-0.9	9.0
	6.7	-3.1	8.5
50	8.0	-3.4	8.0
	8.8	-5.7	7.8
	9.0	-5.4	7.6
			950
			850

STA-106+00

DIST	SOUND	DIST	SOUND	X
860 860	7.4 -3.8	1060	2.0	+1.6
(3.6)	7.4 -	(3.6)	2.0	-
	7.3 -3.7		1.8	+1.8
	7.5 -3.9		1.6	+2.0
2692 1000 900	7.4 -3.8	2807 1200 1100	1.5	+2.1
	7.1 -3.5		1.5	-
	7.1 -		1.4	+2.2
	6.6 -3.0		1.4	-
	6.4 -2.8		1.4	-
50	6.3 -2.7	50	1.4	-
<u>13:52</u>	6.7 -		1.4	-
	6.8 -3.2		1.5	+2.1
	6.4 -2.8		1.8	+1.5
	6.1 -2.5		1.8	-
2769 1100 1000	6.0 -2.4	2969 1300 1200	1.8	-
	5.0 -1.4		1.6	+2.0
	3.5 +0.1		1.5	+2.1
	3.2 +0.4	<u>13:55</u>	1.5	-
	2.9 +0.7		1.6	+2.0
50	2.3 +1.3	50	1.6	-

STA-106+00 5-9-47 (49)

DIST	SOUND	DIST	SOUND	X
1260	1.6 +2.0	1460	7.3	-3.7
(3.6)	1.5 +2.1	(3.6)	7.0	-3.4
	1.4 +2.2		7.1	-3.5
	1.4 -	32692 1600	7.1	-
	1.4 -	1400 1300	7.2	-3.6
	1.4 -		7.2	-
	1.5 +2.1	<u>13:58</u>	7.4	-3.8
	1.4 +2.2		7.4	-
	1.4 -		7.8	-4.2
50	1.5 +2.1	50	8.0	-4.4
	2.4 +1.2		8.3	-4.7
	3.0 +0.6		8.5	-4.9
	4.6 -1.0		8.7	-5.1
	5.5 -1.9	33692 1700	8.8	-5.2
1600 1400	6.4 -2.8	1600	9.0	-5.4
	6.5 -2.9		9.1	-5.5
	7.1 -3.4		9.3	-5.7
	7.4 -3.8		9.5	-5.9
	7.5 -3.9	(3.6)	9.6	-6.0
1450	7.4 -3.8	1650	9.7	-6.1

STA - 106 + 00 5-9-47

DIST	SOUND	DIST	SOUND
1660	9.7 -6.1	1860	5.1 -15
(3.6)	9.6 -6.0	(3.6)	5.0 -14
	9.8 -6.2		4.8 -12
			4.2
34697 1800 1700	10.2 -6.6	36697 2000 1900	3.2 -0.6
	10.0 -6.4		4.0 -0.4
	9.0 -5.4		3.8 -0.2
	9.0 -		3.6 0.0
	8.8 -5.2		3.5 +0.1
	8.8 -		3.5 -
50	8.5 -4.9	50	3.4 +0.2
	8.3 -4.7		3.1 +0.1
<u>14:00</u>	8.1 -4.5		3.0 +0.0
	8.1 -		2.9 +0.2
	8.0 -4.4		2.8 +0.8
35697 1900 1800	8.0 -	37697 2100 2000	2.6 +1.0
	7.5 -3.9	<u>14:03</u>	2.5 +1.1
	7.0 -3.4		2.4 +1.2
	6.6 -3.0		2.4 -
	6.0 -2.4		2.4 -
50	5.3 -1.7	50	2.3 +1.3

STA - 106 + 00 5-9-47

DIST	SOUND	DIST	SOUND
2060	2.3 +1.3		
	2.4 +1.2		
	2.3 +1.3		
	2.2 +1.4		
38697 2200 2100	2.2		
	2.2		
	COMPLETE +1.4		
(3.6)			

STA - 105+00

5-9-47

6+00 = RANGE LINE 132: LINES ARE RUN AT 90° 00' 00" TO R/H
(65 ft)

	H.I.		X
	8.65	-	(3.6)
E 620 2274		5.7	3.0
E 640 2294		5.5	3.2
E 660 2314		5.4	3.3
E 680 2334		5.3	3.4
E 700 2354		5.0	3.7
E 720 2374		5.0	3.7
E 740 2394		4.9	3.7
E 760 2414		4.9	3.7
E 780 2434		5.0	3.6
E 800 2452		5.2	3.7
E 820 2474		5.3	3.3
E 840 2494		5.3	-
E 860 2514		5.3	-
E 880 2534		5.4	3.7
E 890 2544		5.4	3.7

11.20
+5.05
water level

STA 105+00

5-9-47

6+00 = RANGE LINE 132: LINES ARE RUN AT 90° 00' 00" TO R/H

	DIST	SOUND	X
	900	1.5 +2.1	(3.6)
	1090	7.8 -4.2	
	1100	7.3 -3.7	
		5.5 -1.9	(3.6)
		8.0 -4.4	
		8.4 -4.8	
	50	8.8 -1.2	
	50	9.0 -1.4	
		9.2 -1.6	
		9.2 -	
		9.2 -	
	1000	9.0 -1.4	
	1200	8.6 -1.0	
		9.0 -1.4	
		9.4 -1.8	
		9.7 -6.1	
	50	9.5 -5.9	
	50	9.0 -1.4	
		8.3 -4.7	(3.6)
	1080	8.3 -	
	1270	1.5 -	

(51)

STA - 105+00			5-9-47			STA - 105+00			5-9-47		
DIST	SOUND		DIST	SOUND		DIST	SOUND		DIST	SOUND	
1280	1.5	+2.1	1480	7.0	-3.4	1680	8.8	-5.2	1880	5.5	-1.9
(3.6)	1.5	-	(3.6)	7.5	-3.9		8.5	-4.9		5.1	-1.5
²⁹⁰⁴ 1380	1.4	+2.2	¹⁴³⁴ 1500	8.0	-4.4	³³⁰⁴ 1700	8.8	-5.2	³⁵⁰⁴ 1900	4.8	-1.2
	1.4	-		8.0	-	(3.6)	9.0	-5.4	(3.6)	4.3	-0.7
	1.3	+2.3		8.1	-4.5		9.0	-		3.4	+0.2
	1.5	-		8.2	-4.6		9.0	-		3.2	+0.4
	1.4	+2.2		8.3	-4.7		9.0	-	^{14:38}	3.0	+0.6
50	1.4	-	50	8.5	-4.9	50	9.0	-	50	2.8	+0.8
	1.4	-		9.0	-5.4		9.0	-		2.5	+1.1
	1.4	-		9.2	-5.6		8.8	-5.2		2.5	-
	1.4	-		9.4	-5.8		8.1	-4.5		2.5	-
	1.4	-		9.8	-6.2		7.4	-3.8		2.4	+1.2
³⁰⁰⁴ 1400	1.4	-	³²⁰⁴ 1600	9.8	-	³⁴⁰⁴ 1800	7.0	-3.4	³⁶⁰⁴ 2000	2.4	-
	2.0	+1.6		10.0	-6.4		6.8	-3.2		2.4	-
	2.5	+1.1		10.0	-		7.0	-3.4		2.5	+1.1
	3.4	+0.2		10.0	-		7.0	-		2.6	+1.0
	4.3	-0.7	^{14:35}	9.8	-6.2		6.8	-3.2		2.7	+0.9
50	4.8	-1.2	50	9.5	-5.9	50	6.7	-3.1	50	3.0	+0.6
	6.2	-2.6		9.1	-5.5		6.4	-2.8	(3.6)	3.0	-
70	6.7	-3.1	1670	9.0	-5.4	¹⁸⁷⁰ 1870	6.0	-2.4	2070	3.2	+0.4

STA - 105+00
 DIST SOUND DIST SOUND

2080	3.7	-0.1	
	4.0	-0.4	
37 vt 2100	4.0	-	
(3.6)	4.2	-0.6	
	4.5	-0.9	
	5.0	-1.4	
	4.5	-0.9	
50	2.5	+1.1	
	4.0	-0.4	
	4.5	-0.9	
	3.4	+0.7	
	3.0	+0.6	
35 vt 2200	2.8	+0.8	
	2.8	-	
2220 10:12	2.5	COMPLETE	
		1.1	

5-9-47
 STA - 104+00
 (16+0)
 Run At 30:00:00 To TP/4

12:54	11.1	8.65	-	(3.6)	X
13:00	11.1	8.65	-	(3.6)	X
13:05	11.1	8.65	-	(3.6)	X
13:10	11.1	8.65	-	(3.6)	X
13:15	11.1	8.65	-	(3.6)	X
13:20	11.1	8.65	-	(3.6)	X
13:25	11.1	8.65	-	(3.6)	X
13:30	11.1	8.65	-	(3.6)	X
13:35	11.1	8.65	-	(3.6)	X
13:40	11.1	8.65	-	(3.6)	X
13:45	11.1	8.65	-	(3.6)	X
13:50	11.1	8.65	-	(3.6)	X
13:55	11.1	8.65	-	(3.6)	X
14:00	11.1	8.65	-	(3.6)	X
14:05	11.1	8.65	-	(3.6)	X
14:10	11.1	8.65	-	(3.6)	X
14:15	11.1	8.65	-	(3.6)	X
14:20	11.1	8.65	-	(3.6)	X
14:25	11.1	8.65	-	(3.6)	X
14:30	11.1	8.65	-	(3.6)	X
14:35	11.1	8.65	-	(3.6)	X
14:40	11.1	8.65	-	(3.6)	X
14:45	11.1	8.65	-	(3.6)	X
14:50	11.1	8.65	-	(3.6)	X
14:55	11.1	8.65	-	(3.6)	X
15:00	11.1	8.65	-	(3.6)	X
15:05	11.1	8.65	-	(3.6)	X
15:10	11.1	8.65	-	(3.6)	X
15:15	11.1	8.65	-	(3.6)	X
15:20	11.1	8.65	-	(3.6)	X
15:25	11.1	8.65	-	(3.6)	X
15:30	11.1	8.65	-	(3.6)	X
15:35	11.1	8.65	-	(3.6)	X
15:40	11.1	8.65	-	(3.6)	X
15:45	11.1	8.65	-	(3.6)	X
15:50	11.1	8.65	-	(3.6)	X
15:55	11.1	8.65	-	(3.6)	X
16:00	11.1	8.65	-	(3.6)	X
16:05	11.1	8.65	-	(3.6)	X
16:10	11.1	8.65	-	(3.6)	X
16:15	11.1	8.65	-	(3.6)	X
16:20	11.1	8.65	-	(3.6)	X
16:25	11.1	8.65	-	(3.6)	X
16:30	11.1	8.65	-	(3.6)	X
16:35	11.1	8.65	-	(3.6)	X
16:40	11.1	8.65	-	(3.6)	X
16:45	11.1	8.65	-	(3.6)	X
16:50	11.1	8.65	-	(3.6)	X
16:55	11.1	8.65	-	(3.6)	X
17:00	11.1	8.65	-	(3.6)	X
17:05	11.1	8.65	-	(3.6)	X
17:10	11.1	8.65	-	(3.6)	X
17:15	11.1	8.65	-	(3.6)	X
17:20	11.1	8.65	-	(3.6)	X
17:25	11.1	8.65	-	(3.6)	X
17:30	11.1	8.65	-	(3.6)	X
17:35	11.1	8.65	-	(3.6)	X
17:40	11.1	8.65	-	(3.6)	X
17:45	11.1	8.65	-	(3.6)	X
17:50	11.1	8.65	-	(3.6)	X
17:55	11.1	8.65	-	(3.6)	X
18:00	11.1	8.65	-	(3.6)	X
18:05	11.1	8.65	-	(3.6)	X
18:10	11.1	8.65	-	(3.6)	X
18:15	11.1	8.65	-	(3.6)	X
18:20	11.1	8.65	-	(3.6)	X
18:25	11.1	8.65	-	(3.6)	X
18:30	11.1	8.65	-	(3.6)	X
18:35	11.1	8.65	-	(3.6)	X
18:40	11.1	8.65	-	(3.6)	X
18:45	11.1	8.65	-	(3.6)	X
18:50	11.1	8.65	-	(3.6)	X
18:55	11.1	8.65	-	(3.6)	X
19:00	11.1	8.65	-	(3.6)	X
19:05	11.1	8.65	-	(3.6)	X
19:10	11.1	8.65	-	(3.6)	X
19:15	11.1	8.65	-	(3.6)	X
19:20	11.1	8.65	-	(3.6)	X
19:25	11.1	8.65	-	(3.6)	X
19:30	11.1	8.65	-	(3.6)	X
19:35	11.1	8.65	-	(3.6)	X
19:40	11.1	8.65	-	(3.6)	X
19:45	11.1	8.65	-	(3.6)	X
19:50	11.1	8.65	-	(3.6)	X
19:55	11.1	8.65	-	(3.6)	X
20:00	11.1	8.65	-	(3.6)	X
20:05	11.1	8.65	-	(3.6)	X
20:10	11.1	8.65	-	(3.6)	X
20:15	11.1	8.65	-	(3.6)	X
20:20	11.1	8.65	-	(3.6)	X
20:25	11.1	8.65	-	(3.6)	X
20:30	11.1	8.65	-	(3.6)	X
20:35	11.1	8.65	-	(3.6)	X
20:40	11.1	8.65	-	(3.6)	X
20:45	11.1	8.65	-	(3.6)	X
20:50	11.1	8.65	-	(3.6)	X
20:55	11.1	8.65	-	(3.6)	X
21:00	11.1	8.65	-	(3.6)	X
21:05	11.1	8.65	-	(3.6)	X
21:10	11.1	8.65	-	(3.6)	X
21:15	11.1	8.65	-	(3.6)	X
21:20	11.1	8.65	-	(3.6)	X
21:25	11.1	8.65	-	(3.6)	X
21:30	11.1	8.65	-	(3.6)	X
21:35	11.1	8.65	-	(3.6)	X
21:40	11.1	8.65	-	(3.6)	X
21:45	11.1	8.65	-	(3.6)	X
21:50	11.1	8.65	-	(3.6)	X
21:55	11.1	8.65	-	(3.6)	X
22:00	11.1	8.65	-	(3.6)	X
22:05	11.1	8.65	-	(3.6)	X
22:10	11.1	8.65	-	(3.6)	X
22:15	11.1	8.65	-	(3.6)	X
22:20	11.1	8.65	-	(3.6)	X
22:25	11.1	8.65	-	(3.6)	X
22:30	11.1	8.65	-	(3.6)	X
22:35	11.1	8.65	-	(3.6)	X
22:40	11.1	8.65	-	(3.6)	X
22:45	11.1	8.65	-	(3.6)	X
22:50	11.1	8.65	-	(3.6)	X
22:55	11.1	8.65	-	(3.6)	X
23:00	11.1	8.65	-	(3.6)	X
23:05	11.1	8.65	-	(3.6)	X
23:10	11.1	8.65	-	(3.6)	X
23:15	11.1	8.65	-	(3.6)	X
23:20	11.1	8.65	-	(3.6)	X
23:25	11.1	8.65	-	(3.6)	X
23:30	11.1	8.65	-	(3.6)	X
23:35	11.1	8.65	-	(3.6)	X
23:40	11.1	8.65	-	(3.6)	X
23:45	11.1	8.65	-	(3.6)	X
23:50	11.1	8.65	-	(3.6)	X
23:55	11.1	8.65	-	(3.6)	X
24:00	11.1	8.65	-	(3.6)	X

STA 104+00				STA- 104+00				5-9-17 (54)			
DIST	SOUND		DIST	SOUND	X	DIST	SOUND		DIST	SOUND	X
15:00 9:40 ³⁰	0.3	+3.3	1130	7.5	-39	1220	2.0	+1.6	1530	10.2	-6.6
21:00 <u>(3.6)</u> ⁹⁰ 30	0.8	+2.8	<u>(3.6)</u>	7.1	35	<u>(3.6)</u>	1.8	+1.8	<u>(3.6)</u>	10.0	-6.4
2600 30	2.0	+1.6	50	7.0	34	30	1.6	+2.0	50	9.8	-6.2
1050	3.5	+0.1		7.0	-		1.8	+1.8		9.4	-5.8
20	5.5	-1.9	<u>15:08</u>	6.3	27		2.4	+1.2	<u>15:13</u>	9.1	-5.5
30	6.5	-2.9		6.0	24		3.3	+0.3		9.1	-
2640 1000	6.8	-3.2	2840 1400	5.4	15	3040 1400	3.7	-0.1	3240 1600	9.0	-5.4
1000	7.4	-3.8	1200	5.4	-	1400	4.6	-1.0	1600	9.0	-
1000	8.0	-4.4		5.5	19		3.7	-2.1		9.0	-
	8.5	-4.9		5.7	21		6.0	-2.4		9.1	-5.5
	9.0	-5.4		5.0	15		6.2	-2.6		9.4	-5.8
	9.0	-		5.8	22		7.9	-4.3		9.4	-
50	8.8	-5.2	50	6.6	30	50	8.4	-4.8	50	9.5	-5.9
50	8.8	-		6.0	26		9.0	-5.4		9.5	-5.9
	8.6	-5.0		4.0	-0		10.0	-6.4		9.2	-5.7
	8.5	-4.9		4.0	-0		9.6	-6.0		9.1	-5.5
2740 1100	8.5	-	2940 1300 <u>15:10</u>	3.4	+02	3140 1500	10.0	-6.4	3340 1700	8.8	-5.2
1700	8.1	-4.5	1300	2.3	+13	1400	10.1	-6.5	1700 ⁵⁰	8.5	-4.9
400	8.0	-4.4		2.3	-		10.1	-6.5	<u>(3.6)</u> ⁶⁰ 20	8.5	-
1120	7.7	-4.1	1320	2.0	+15	1520	10.2	-6.6	1720 ⁷⁰	8.3	-4.7

STA 104+00		DIST SOUND	
DIST	SOUND	DIST	SOUND
1730	8.0 -4.4		
(3.6)	7.5 -3.9		
50	7.4 -3.8		
	7.0 -3.4		
	7.0 -		
	7.0 -		
3440			
1800	6.1 -2.5		
1800 ⁵⁰	5.4 -1.8		
15:15			
60	3.0 +0.6		
70	3.2 +0.4		
80	2.8 +0.8		
90	2.0 +1.6		
3000	60 1.6 +2.0		
1870	STAKE		
1860	1.0 +2.6		

SOUND EAST STA- 103+00 "ORIGINALS" 5-9-47 (55)
 0+00=RANGE LINE 132: LINES ARE RUN AT 90° 00' 00" To R/L

STA- 103+00		DIST SOUND		DIST SOUND	
DIST	SOUND	DIST	SOUND	DIST	SOUND
15:25					
720	0.6 +3.0	910	2.8 +0.8		
(3.6)	0.5 +3.1	(3.6)	2.5 +1.1		
50	0.4 +3.2		3.0 +0.6		
70	0.4 -		3.5 +0.1		
80	0.3 +3.3	50	3.0 +0.6		
90	0.0 +3.6		3.0 -		
2400	0.0 -		2.5 +1.1		
15	+0.1 +3.5	15:30	2.0 +1.6		
800	+0.1 -		1.8 +1.8		
30	0.0 +3.6	2620	1000 2.4 +1.2		
	0.3 +3.3		2.4 -		
	0.5 +3.1		2.1 +1.5		
	0.7 +2.9		2.0 +1.6		
50	1.2 +2.4		2.2 +1.4		
	1.7 +1.9	50	2.4 +1.2		
15:28			2.8 +0.8		
	1.8 +1.8		3.5 +0.1		
	2.1 +1.5		4.8 -1.2		
	2.5 +1.1	(3.6)			
300	2.7 +0.9	1090	5.7 -2.1		

STA 103+00			5-9-47		
DIST	SOUND		DIST	SOUND	
²⁷²⁵ 1100	5.5	-1.9	²⁹²⁵ 1300	3.0	+0.6
(3.6)	7.2	-3.6	(3.6)	5.5	-1.9
	8.0	-4.4		3.5	+0.1
	8.0	—		3.6	0.0
	8.3	-4.7		3.6	0.0
50	8.3	—	50	3.7	-0.1
	8.5	-4.9		3.8	-0.2
	8.4	-4.8		3.7	-0.1
	8.3	-4.7		3.5	0.0
	8.6	-5.0		3.7	-0.1
²⁸²⁵ 1200	8.0	-4.4	³⁰²⁵ 1400	5.0	-1.4
<u>15:33</u>	7.8	-4.2		6.0	-2.4
	7.1	-3.5		7.0	-3.4
	6.3	-2.7	<u>15:35</u>	8.7	-5.1
	5.7	-2.1		9.8	-6.8
50	4.7	-1.1	50	10.4	-6.8
	5.0	-1.4		10.5	-6.9
	5.0	—		10.3	-6.7
	4.4	-0.8		10.2	-6.6
1290	2.8	+0.8	1490	10.2	—

STA 103+00			5-9-47		
DIST	SOUND		DIST	SOUND	
³¹²⁵ 1500	10.4	-6.8	³³²⁵ 1700	7.8	-4.2
(3.6)	10.8	-7.2	^{15:38}	7.5	-3.9
	11.0	-7.4	(3.6)	7.0	-3.4
	11.6	-8.0		6.8	-3.2
	12.0	-8.4		6.2	-2.6
50	12.3	-8.7	50	5.7	-2.7
	12.4	-8.8		4.5	-0.9
	11.8	-8.2		3.1	+0.5
	11.0	-7.4		2.4	+1.2
	10.7	-7.1		1.8	+1.8
³²²⁵ 1600	10.0	-6.4	³⁴²⁵ 1800	0.9	+2.7
	9.7	-6.1		0.5	+3.1
	9.8	-6.2	1820	STAKE	+ ? COMPLETE
	9.8	—			
	9.8	—			
50	9.5	-5.9			
	9.5	—			
	9.0	-5.4			
	8.5	-4.9			
1690	8.1	-4.5			

SOUND EAST			STA - 111 + 00			STA - 111 + 00			SOUND EAST		
0700 R- 114 + 81.35			5-22-47			5-22-47			57		
DIST	SOUND		DIST	SOUND		DIST	SOUND		DIST	SOUND	
						430	3.0	+0.3	6.30	2.5	+0.8
0700	+?		240	2.5	+0.5		2.9	+0.4	13:58	2.5	-
0764	0.0	+3.3	50	2.5	-	50	2.9	-	50	2.5	-
13:48						(3.3)	2.7	+0.6		2.5	-
70	0.3	+3.0		2.6	+0.7		2.7	-	(3.3)	2.4	+0.9
(3.3)	0.8	+2.5	(3.3)	2.7	+0.6		2.7	-		2.5	+0.8
	0.8	+2.5		2.7	-		2.7	-		2.4	+0.9
100	1.0	+2.3		2.7	-		2.7	-		2.4	-
	1.2	+2.1	300	2.7	-	500	2.7	-	700	2.4	-
	1.5	+1.8		2.8	+0.5		2.6	+0.7		2.4	-
	1.8	+1.5		2.9	+0.4		2.4	+0.9		2.4	-
	2.0	+1.3		3.1	+0.2		2.7	+0.6		2.4	-
	2.0	-		3.1	-		2.5	+0.8		2.3	+1.0
50	4.0	-		3.2	-		2.4	+0.9	50	2.3	-
	2.0	-	50	3.2	+0.1		2.4	-		2.3	-
13:50	2.0	-	13:53	3.2	-		2.4	-		2.6	+0.7
	2.1	+1.2		3.2	-		2.5	+0.8	14:00	2.2	+1.1
	2.1	-		3.2	-		2.5	-		2.1	+1.2
200	2.3	+1.0		3.4	-0.1		2.5	-		2.0	+1.3
	2.4	+0.9	400	3.2	+0.1	600	2.5	-	800	2.0	-
	2.3	+1.0		3.2	-		2.5	-		2.0	-
230	2.4	+0.9	420	3.1	+0.2	620	2.5	-	820	2.0	-

STA - 111 + 00			5-22-47		
DIST	Sound		DIST	Sound	
830	2.2	+1.1'	1030	2.1	+1.2'
(3.3)	2.1	+1.2'	(3.3)	2.3	+1.0'
50	2.0	+1.3	50	2.4	+0.9
	2.1	+1.2'		2.5	+0.8
	2.0	+1.3		2.5	-
	2.0	-		2.3	+1.0
	2.0	-		2.3	-
900	2.0	-	1100	2.5	+0.8
	2.0	-	<u>14:05</u>	2.8	+0.5'
	2.0	-		3.3	0
	2.0	-		3.5	
	2.1	+1.2'		4.5	-0.2
	2.1	-		3.7	
	2.1	-		2.7	-0.4
50	2.1	-	50	4.2	-0.9'
	2.1	-		5.3	-2.0
<u>14:03</u>	2.1	-		6.0	-2.7
	2.0	+1.3		6.8	-3.5
	2.1	+1.2'		7.0	-3.7
1000	2.1	-	1200	7.5	-4.7
	2.1	-		7.8	-4.5
1020	2.1	-	1220	7.8	-

STA - 111 + 00			5-22-47		
DIST	Sound		DIST	Sound	
1230	7.7	-4.4'			
	7.4	-4.1'			
50	7.0	-3.7'			
	6.5	-3.2'			
	(7.7)				

(58)

SOUND
EAST

STA-112+00

5-22-47

0+00 =

R-115+0716

X

DIST	SOUND		DIST	SOUND	
0+00	+?		230	1.5	+1.6
0+55	0.0	+3.1		1.6	+1.5
<u>14:39</u>					
60	0.3	+2.8	50	1.6	-
70	1.0	+2.1	(3.1)	1.6	-
(3.1)	1.0	-		1.6	-
	1.0	-	<u>14:39</u>	1.8	+1.3
100	1.1	+2.0		1.9	+1.7
	1.2	+1.9	300	2.0	+1.1
	1.2	-		2.0	-
	1.2	-		2.2	+0.9
	1.3	+1.8		3.3	-0.7
50	1.3	-		2.4	+0.7
	1.4	+1.7	50	2.5	+0.6
	1.5	+1.6		2.5	-
	1.5	-		2.6	+0.5
	1.5	-		2.6	-
200	1.5	-		2.8	+0.3
	1.5	-	400	2.8	-
220	1.5	-	410	2.8	-

STA-112+00

5-22-47

(59)

DIST	SOUND		DIST	SOUND	
420	2.6	+0.5	620	2.1	+1.0
	2.6	-		2.2	+0.9
(3.1)	2.4	+0.7	(3.1)	2.1	+1.0
50	2.4	-	50	2.2	+0.9
	2.2	+0.9	<u>14:45</u>	2.3	+0.8
	2.2	-	(3.0)	2.4	+0.6
<u>14:52</u>	2.2	-		2.3	+0.7
	2.1	+1.0		2.4	+0.6
500	2.1	-	700	2.4	-
	2.0	+1.1		2.4	-
	2.1	+1.0		2.1	+0.9
	2.0	+1.1		2.0	+1.0
	2.0	-		1.9	+1.1
50	1.9	+1.2	50	1.8	+1.2
	2.0	+1.1		1.9	+1.1
	2.0	-		2.0	+1.0
	2.0	-		1.8	+1.2
	2.0	-	<u>13:48</u>	1.8	-
600	2.0	-	800	1.7	+1.3
610	2.0	-	810	1.8	+1.2

STA -112+00			5-22-47		
DIST	SOUND		DIST	SOUND	X
820	1.8	+1.2	1020	4.8	-1.5
(3.0)	1.8	-	(3.0)	5.5	-2.5
	1.8	-		5.9	-2.9
50	1.8	-	50	6.5	3.5
	2.0	+1.0		7.0	4.0
	1.8	+1.2		7.5	4.5
	1.8	-		8.0	5.0
	1.8	-		7.8	4.8
900	2.1	+0.9	1100	7.5	4.5
	2.3	+0.7		7.3	4.3
	2.6	+0.4		6.7	3.7
14:50	2.8	+0.2		6.4	3.4
	3.2	-0.2	14:53	6.1	3.1
50	3.1	-0.1	50	5.8	2.8
	3.7	-0.7		5.3	2.3
	3.4	-0.4		5.0	2.0
	3.7	-0.7		4.5	1.5
	3.7	-		4.3	1.3
1000	3.7	-	1200	4.3	-
1010	4.3	-1.3	1210	4.5	-1.5

STA -112+00			5-22-47		
DIST	SOUND		DIST	SOUND	X
1220	4.0	-1.0			
	4.0	-			
1240	4.0	-			
50					
(3.0)					

SOUND SOUTH EAST SIDE BOAT BASIN 6-3-47
 0700 = Pt. 380' W. OF STA-86+43 CAUSEWAY 1/4 AND AT

81° 39' 44" To B/L: SOUND SOUTH AT 90° FROM THIS PT.

DIST	SOUND	DIST	SOUND
0700	1.9 +1.0		
<u>13:50</u>	4.4 -1.5		
(2.9)	4.7 -1.8		
	5.1 -2.2		
	4.7 -1.8		
50	5.4 -2.5		
	5.1 -2.2		
	5.0 -2.1		
	5.1 -2.2		
	5.5 -2.6		
1700	5.4 -2.5		
	5.4 -2.5		
	3.4 -2.3		
	3.4 -2.3		
	5.5 -2.6		
50	1.5 +1.4		
55	0.0 +2.9		

13:54

SOUND WEST NORTH SIDE OF BOAT BASIN 6-3-47
 0700 = Pt. 380' W. OF STA-86+43 CAUSEWAY 1/4 AND AT

81° 39' 44" To B/L: SOUND WEST ALONG THIS LINE

DIST	SOUND	DIST	SOUND
0700	1.9 +1.0	1780	5.8 -2.9
<u>13:58</u>	4.4 -1.5		6.0 -3.1
(2.9)	5.0 -2.1	2700	6.0 -3.1
	4.5 -1.6	(2.9)	6.0 -3.1
	4.6 -1.7		6.0 -3.1
50	4.8 -1.8		5.5 -2.6
	4.2 -1.3		5.1 -2.2
	4.6 -1.7	50	4.9 -2.0
	4.2 -1.3	<u>14:03</u>	4.7 -1.8
	3.7 -0.8		4.6 -1.7
1700	4.5 -1.6		4.8 -1.9
	5.0 -2.1		4.8 -1.9
	4.5 -1.6	300	4.8 -1.9
<u>14:00</u>	4.5 -1.6		5.5 -2.6
	5.3 -2.4		5.1 -2.2
50	5.3 -2.4		5.1 -2.2
	5.3 -2.4		5.1 -2.2
1770	5.5 -2.6	3750	5.2 -2.3

Inclined

PX SOUNDINGS ALONG E. OF BOAT BASIN 6-3-47

DIST	SOUND	DIST	SOUND
3+60	5.1 -2.3	5+60	5.4 -2.6
(2.8)	4.7 -1.9	(3.8)	5.8 -3.0
	4.8 -2.0		5.4 -2.6
	4.8 -2.0		5.7 -2.9
4+00	5.2 -2.4	6+00	5.5 -2.7
	5.4 -2.6		5.5 -2.7
	5.2 -2.4		5.5 -2.7
	5.3 -2.5		5.4 -2.6
	5.0 -2.2		5.6 -2.8
50	4.4 -1.6	50	5.6 -2.8
	5.0 -2.2		5.4 -2.6
	5.3 -2.5		5.1 -2.3
	5.5 -2.7		4.7 -1.9
<u>14:30</u>	5.4 -2.6		4.6 -1.8
5+00	5.2 -2.4	7+00	4.7 -1.9
	5.6 -2.8		4.8 -2.0
	6.0 -3.2		4.9 -2.1
	5.7 -2.9		5.2 -2.4
	5.4 -2.6		5.0 -2.2
50	5.4 -2.6	7+50	4.5 -1.7
			4.5 -1.7
		7+15	6.8 +2.8

SOUNDINGS ALONG SOUTH SIDE OF BOAT BASIN WEST 6-3-47 (63)

AT 81°30'4" TO 3/4: SOUND WEST ALONG THIS LINE.

DIST	SOUND	DIST	SOUND
3+00	5.3 -2.5	1+80	3.5 -0.7
<u>14:40</u>	5.1 -2.3		4.5 -1.7
(2.8)	5.5 -2.7	2+00	5.1 -2.3
	5.3 -2.5	(2.8)	4.8 -2.0
	5.5 -2.7		4.8 -2.0
50	5.5 -2.7		4.5 -1.7
	5.6 -2.8		4.7 -1.9
	6.0 -3.2	50	5.1 -2.3
	6.2 -3.4		4.5 -1.7
	6.7 -3.9	<u>14:43</u>	4.3 -1.5
1+00	6.0 -3.2		4.3 -1.5
	6.2 -3.4		4.2 -1.4
	5.8 -3.0	3+00	4.0 -1.2
	5.1 -2.3		4.0 -1.2
	4.7 -1.9		4.0 -1.2
50	4.0 -1.2		4.0 -1.2
	3.8 -1.0		4.0 -1.2
1+70	3.5 -0.7	50	4.1 -1.3

SOUNDINGS ALONG SOUTH SIDE OF BOAT BASIN

DIST	SOUND	DIST	SOUND
3+60	4.3 -1.5	5+60	5.5 -2.7
(2.8)	4.6 -1.8	(2.8)	5.4 -2.6
	4.5 -1.7		5.5 -2.7
	4.4 -1.6		5.5 -2.7
400	4.4 -1.6	6+00	5.0 -2.2
	4.3 -1.5		4.5 -1.7
	4.0 -1.2		4.2 -1.4
	4.0 -1.2		4.0 -1.2
	4.2 -1.4		4.0 -1.2
50	4.5 -1.7	50	4.4 -1.6
	5.0 -2.2		4.4 -1.6
	5.1 -2.3		4.8 -2.0
	5.2 -2.4		4.8 -2.0
	5.2 -2.4		4.5 -1.7
5+00	5.2 -2.4	7+00	4.5 -1.7
14:45	5.2 -2.4		4.5 -1.7
	5.3 -2.5		4.3 -1.5
	5.4 -2.6		4.3 -1.5
	6.2 -3.4		4.4 -1.6
5+50	5.5 -2.7	7+50	4.7 -1.9
		80	4.5 -1.7
		90	4.5 -1.7
		7+74	4.0 -1.2

SOUNDINGS ALONG CENTER BT. BSN. 6-3-47 (64)

SOUTH
 0+00 = Pt. 760 W. OF STA - 86+43 CAUSEWAY 7/4 AND
 AT 81°32'44" To 7/4: Sound South AT 90° TO THIS LINE.

DIST	SOUND	DIST	SOUND
0+00	4.5 -1.7		
14:54	4.7 -1.9		
(2.8)	4.8 -2.0		
	4.7 -1.9		
	4.8 -2.0		
50	4.7 -1.9		
	5.0 -2.2		
	5.2 -2.4		
	5.2 -2.4		
	5.2 -2.4		
1+00	5.0 -2.2		
10	4.7 -1.9		
20	4.4 -1.6		
30	3.8 -1.0		
40	1.0 +1.8		
442	6.0 +2.8		
14:57			

SOUNDINGS ALONG WEST SIDE OF BOAT BASIN

SOUTH

0+00 = PT 1130' W. OF STA - 86+43 CAUSEWAY 3/4

AT 81°33'44" TO 3/4 SOUND SOUTH AT 90° TO THIS LINE

DIST SOUND

0+00 5.0 -2.2

15:03

4.8 -2.0

(2.8) 4.6 -1.8

4.6 -1.8

5.5 -2.7

0+50 5.2 -2.4

4.3 -1.5

4.2 -1.4

4.5 -1.7

4.0 -1.2

1+00 4.0 -1.2

10 4.4 -1.6

20 4.1 -1.3

30 5.0 -2.2

40 3.0 -0.2

50 0.0 +2.8

"AGGIE'S COVE"

BARTAGAN
SHERRY
STANLEY

6-6-47

(65)

0+00 = PT 760' W. OF STA - 82+00 CAUSEWAY 3/4 AT

81°33'44" TO 3/4 SOUND SOUTH AT 90° FROM THIS PT.

DIST SOUND

0+21 0.0 +2.5

10:10

1.3 +1.2

(2.5) 3.0 -0.5

50 4.4 -1.9

6.0 -3.5

6.4 -3.9

7.5 -5.0

9.1 -6.6

1+00 10.0 -7.5

11.2 -8.7

11.2 -8.7

11.7 -9.2

12.0 -9.5

50 13.0 -10.5

Indexed

"AGGIES COVE" 6-6-47

0+00 = Pt. 690' W. OF STA-82+00 CAUSEWAY $\frac{3}{4}$ AND

$89^{\circ}35'44''$ To $\frac{3}{4}$: SOUND SOUTH AT 90° FROM THIS Pt.

DIST SOUND

0+02 0.0 +2.6

0+10 1.5 +1.1

10:20 4.0 -1.4

(2.6) 4.9 -2.3

7.3 -4.7

50 9.4 -6.8

10.4 -7.8

11.0 -8.4

11.5 -8.9

11.6 -9.0

1+00 12.0 -9.4

12.3 -9.7

12.5 -9.9

12.0 -9.4

12.4 -9.8

50 12.4 -9.8

"AGGIES COVE" 6-6-47

(66)

0+00 = Pt. 575' W. OF STA-82+00 CAUSEWAY $\frac{3}{4}$ AT

$89^{\circ}35'44''$ To $\frac{3}{4}$: SOUND SOUTH AT 90° FROM THIS Pt.

DIST SOUND

0-10 0.0 +2.6

0+00 1.4 +1.2 P.X.

0+10 2.7 -0.1

10:25 3.2 -0.6

(2.6) 4.4 -1.8

5.4 -2.8

50 7.1 -4.5

8.0 -5.4

8.5 -5.9

10.0 -7.4

11.1 -8.5

1+00 11.8 -9.2

12.0 -9.4

11.5 -8.9

12.0 -9.4

12.0 -9.4

50 12.8 -10.2

SOUNDINGS EAST OF 0+00 $\frac{1}{2}$ BOAT BASIN 6-1-47
0+00 = PT. W. OF STA. 85+80.5 CAUSEWAY $\frac{3}{4}$ AT

81°39'44" TO $\frac{3}{4}$ S. SOUND EAST FROM THIS PT.

DIST SOUND

0+00 5.0 -2.2 PX

10:15 5.3 -2.5

(2.8) 5.3 -2.5

5.3 -2.5

5.4 -2.6

50 5.4 -2.6

4.7 -1.9

3.0 -0.2

1+80 3.4 -0.6

1+90 0.0 +2.8

100 +?

SOUNDINGS EAST OF 0+00 S. SIDE OF BOAT BASIN 6-6-47 (67)
0+00 = PT. W. OF STA. 85+18 CAUSEWAY $\frac{3}{4}$ AT

81°39'44" TO $\frac{3}{4}$ S. SOUND EAST FROM THIS PT.

DIST SOUND

0+00 5.3 -2.5

10:15 5.3 -2.5

5.3 -2.5 PX

(2.8) 5.3 -2.5

5.0 -2.2

50 5.0 -2.2

5.3 -2.5

5.3 -2.5

5.1 -2.3

5.0 -2.2

1+00 5.1 -2.3

4.7 -1.9

5.0 -2.2

5.5 -2.7

5.3 -2.5

50 5.5 -2.7

SOUNDINGS N. FROM PT. 30' W. OF 0+00 N. SIDE OF BOAT BASIN ⁶⁻⁶⁻⁴⁷
0+00 = PT. 910' W. OF STA-86+93 CAUSEWAY ^{B/L} AT

81°33'44" To B/L: SOUND NORTH FROM THIS PT. AT 90°

DIST	SOUND	DIST	SOUND
0-02	+1.8		
0+00	4.8	-1.9	
0+10'	5.0	-2.1	PX
0+20	2.6	+0.3	
0+25	1.0	+1.9	
0+26	+2.5	+5.4	

11:00

(2.9)

SOUNDINGS N. OF 0+00 CENTER BOAT BASIN ⁶⁻⁶⁻⁴⁷ (68)
0+00 = PT. 760' W. OF STA-86+93 CAUSEWAY ^{B/L} AT

81°33'44" To B/L: SOUND NORTH AT 90° FROM THIS PT.

DIST	SOUND	DIST	SOUND
0+00	5.3	-2.3	
0+10'	5.0	-2.0	PX
(30)	2.7	+0.3	
+27	0.0	+2.7	

SOUNDINGS N. OF 0+00 W. SIDE BOAT BASIN 6-2-47
 0+00 = PT. 1130' W. OF STA-86+43 CAUSEWAY $\frac{3}{4}$ AT

81°39'42" To B/L: SOUND NORTH AT 90° FROM THIS Pt

DIST SOUND DIST SOUND

0+00 4.5 -1.5

11:13

4.3 -1.3

PX

0+20 3.0 0.0

0+25 0.0 +3.0

(3.0)

SOUNDINGS OF SHOLES DANA BASIN 7-22-47 (59)
 PX STA-64+00 PROJECT #7

0+00 = {^{STA-64+00}₁₉₋₁₀₀₊₀₀} SOUND WEST AT 90° To R/L.

DIST SOUND DIST SOUND

2+78 0.0 +2.2 2+60 10.5 -8.3

0+30 4.0 -1.8 (2.2) 10.3 -8.1

11:58
 1+00 4.8 -2.6 10.0 -7.8

(2.2) 5.4 -3.2 10.1 -7.9

5.4 -3.2 3+00 10.1 -7.9

2.0 -4.8 10:03

3.0 -6.8

5.0 3.8 -7.6

10.3 -8.1

10.8 -8.6

11.0 -8.8

10:00
 11.7 -9.5

2+00 12.3 -10.1

12.3 -10.1

12.0 -9.8

11.5 -9.3

11.4 -9.2

2+50 11.2 -9.0

PX.

PROJECT # 7.

7-22-47

STA- 63+ 00

PX.

STA- 65+ 00 PROJECT # 7

7-22-47 (10)

0+00 = { STA-63+00
R-100+00 } SOUND WEST AT 90° To R/L.0+00 = { STA-65+00
R-102+00 } SOUND WEST AT 90° To R/L.

DIST SOUND DIST SOUND

DIST SOUND DIST SOUND

1+50 0.0 +2.3

0+19 2+00 9.5 -6.9

+60 0.2 +2.1

0+20 0.2 +2.4 9.3 -6.7

+70 0.5 +1.8

0+25 1.0 +1.6 9.5 -6.9

10:16

0.8 +1.5

50 1.0 +1.6 (2.6) 9.5 -6.9

(2.3) 1.0 +1.3

(2.6) 3.0 -0.4 (2.7) 10.3 -7.6

2+00 1.0 +1.3

3.4 -0.8 50 10.7 -8.0

1.0 +1.3

10:42 4.5
3.0 -1.9 10:45 11.0 -8.3

3.2 -0.9

5.0
4.5 -2.4 11.5 -8.8

4.0 -1.7

6.4
5.0 -3.8 11.5 -8.8

4.1 -1.8

6.5 -3.9 11.5 -8.8

50 4.8 -2.5

7.5 -4.9 3+00 11.4 -8.7

4.7 -2.4

7.5 -4.9 11.4 -8.7

4.5 -2.2

7.5 -4.9 11.4 -8.7

4.5 -2.2

50 8.3 -5.7 11.5 -8.8

4.2 -1.9

8.4 -5.8 11.5 -8.8

3+00 3.7 -1.4

8.4 -5.8 50 11.4 -8.7

9.4 -6.8 12.0 -9.3

1+90 9.6 -7.0 3+70 12.4 -9.7

P, X, 7-22-47
 CHECK SOUNDINGS ON SLOPES "AGGIES COVE"

0+00 = { STA-82+20
 RANGE 113+00 }

SOUND SOUTH AT 90° FROM THIS PT.

DIST	SOUND	DIST	SOUND
0+2	0.0 +4.3	1+70	15.0 -10.7
0+10	1.0 +3.3	^{12:50} 13.8	-9.5
^{12:45}	2.5 +1.8	(4.3)	12.6 -8.3
(4.3)	5.2 -0.9	2+00	12.1 -7.8
	6.8 -2.5		12.4 -8.1
50	8.5 -4.2		12.1 -7.8
^{12:48}	10.6 -6.3		12.3 -8.0
	11.4 -7.1		12.3 -8.0
	11.8 -7.5	50	14.0 -9.7
	12.0 -7.7		
1+00	12.3 -8.0		
	12.7 -8.4		
	13.0 -8.7		
	14.2 +3.2 -9.9		
	14.4 +3.4 -10.1		
50	13.8 -9.5		
1+60	15.0 -10.7		

P, X, 7-22-47 (11)
 CHECK SOUNDINGS ON SLOPES "AGGIES COVE"

0+00 = { STA-82+20
 RANGE-111+50 } SOUND SOUTH

DIST	SOUND	DIST	SOUND
0+12	0.0 +4.4	1+90	13.0 -8.6
0+20	1.0 +3.4	2+00	13.8 -9.4
^{12:58} +30	3.0 +1.4		14.5 -10.1
(4.4)	5.9 -1.5	(4.4)	14.0 -9.6
50	7.0 -2.6		14.0 -9.6
	8.2 -4.8		13.7 -9.3
	10.3 -5.9	50	13.0 -8.6
	13.0 -8.6		
	12.9 -8.5		
1+00	13.1 -8.7		
^{13:00}	13.0 -8.6		
	13.2 -8.8		
	13.5 -9.1		
	13.6 -9.2		
50	13.6 -9.2		
	14.0 -9.6		
	14.0 -9.6		
1+80	13.3 -8.9		

P.X.

7-22-47

CHECK SOUNDINGS ON SLOPES "AGGIES COVE"

0+00 = { STA-82+20
RANGE-110+20 } : SOUND SOUTH

DIST	SOUND		DIST	SOUND		
0+35	0.0	+4.5	2+10	14.5	-10.0	
0+40	0.8	+3.7		13.4	-8.9	
<u>13:08</u>	50	3.0	+1.5	(4.5)	13.0	-8.5
(4.5)	5.6	-1.1		13.4	-8.9	
	7.5	-3.0	50	13.4	-8.9	
	9.8	-5.3		14.0	-9.5	
<u>13:10</u>	11.4	-6.9		14.2	-9.7	
1+00	12.4	-7.9		14.2	-9.7	
	12.6	-8.1		14.5	-10.0	
	13.0	-8.5	3+00	14.8	-10.3	
	13.1	-8.6				
	13.2	-8.7				
50	13.4	-8.9				
	13.1	-8.6				
	13.5	-9.0				
	13.8	-9.3				
	13.4	-8.9				
2+00	13.9	-9.4				

P.X.

(72)

CHECK SOUNDINGS ON SLOPES "AGGIES COVE"

0+00 = STAKE # 11 : SOUND EAST

DIST	SOUND		DIST	SOUND	
0+48	0.0	+4.6			
0+60	5.0	-0.4			
	70	10.1	-5.5		
<u>13:35</u>		12.4	-7.8		
		12.4	-7.8	(4.6)	
		12.8	-8.2	1+00	
		13.2	-8.6		
		13.2	-8.6		
		13.6	-9.0		
		14.4	-9.8		
	50	14.0	-9.4		
		14.6	-10.0		
		14.8	-10.2		
		14.6	-10.0		
		14.0	-9.4		
		2+00	14.0	-9.4	

Indexed

7-22-47

CHECK SOUNDINGS ON SLOPES "AGGIES COVE"

0+00 = {STAKE # 12} : SOUND SOUTH EAST.

DIST SOUND DIST SOUND

0+45 0.0 +4.7

50 2.0 +2.7

13:35

+60 6.0 -1.3

9.4 -4.7

(4.7) 11.6 -6.9

11.9 -7.2

1+00 12.4 -7.7

12.4 -7.7

12.5 -7.8

12.5 -7.8

12.3 -7.6

50 12.6 -7.9

12.8 -8.1

13.1 -8.4

12.6 -7.9

14.2 -9.5

2+00 14.4 -9.7

7-22-47

(23)

P, X,

CHECK SOUNDINGS SOUTH SLOPES PROJECT # 8

0+00 = STAKE # 13 : SOUND SOUTH.

DIST SOUND DIST SOUND DIST SOUND

0+70 0.0 +4.8

80 2.5 +2.3

13:50

3.0 +1.8

1+00 13.0 -8.2

14.1 -9.3

(4.8) 13.5 -8.7

13.6 -8.8

13.8 -9.0

50 13.8 -9.0

14.0 -9.2

14.2 -9.4

14.6 -9.6

15.5 -10.7

2+00 15.5 -10.7

PX1

7-22-47

CHECK SOUNDINGS ON SOUTH SLOPES PROJECT # 8

0+00 = STAKE # 15 : SOUND SOUTH.

DIST SOUND DIST SOUND

0+50 0.0 +4.8 2+30

+60 0.8 +4.0

14:00
+70 2.5 +2.3 50

(4.8) 9.0 -4.2

11.8 -7.0

1+00 12.3 -7.5

13.5 -8.7

15.5 -10.7

15.5 -10.7

15.2 -10.4

50 15.0 -10.2

15.0 -10.2

15.5 -10.7

15.9 -11.1

15.9 -11.1

2+00 15.9 -11.1

2+20

PX1

7-22-47

(74)

CHECK SOUNDINGS ON SOUTH SLOPES PROJECT # 8

0+00 = STAKE # 16 : SOUND SOUTH.

DIST SOUND DIST SOUND

0+46 0.0 +4.8

+50 0.3 +4.5

14:00
+60 0.9 +3.9

1.4 +3.4

(4.8) 1.4 +3.4

3.2 +1.6

1+00 3.8 +1.0

4.4 +0.4

5.2 -0.4

5.8 -1.0

6.8 -2.0

50 9.0 -4.2

11.5 -6.7

13.1 -8.3

13.6 -8.8

13.9 -9.1

2+00 14.0 -9.2

PX, 7-22-47
 CHECK SOUNDINGS ON SOUTH SLOPES PROJECT # 8

0+00 = STAKE # 17: SOUND SOUTH.

DIST	SOUND	DIST	SOUND
------	-------	------	-------

0+53	0.0	+4.8	
------	-----	------	--

+60	0.2	+4.6	
-----	-----	------	--

+70	0.5	+4.3	
-----	-----	------	--

14:30

	0.5	+4.3	
--	-----	------	--

(4.8)	2.3	+2.5	
-------	-----	------	--

1+00	4.3	+0.8	
------	-----	------	--

	5.5	-0.7	
--	-----	------	--

	5.8	-1.0	
--	-----	------	--

	6.4	-1.6	
--	-----	------	--

	6.8	-2.0	
--	-----	------	--

50	7.7	-2.9	
----	-----	------	--

15:33

	8.8	-4.0	
--	-----	------	--

	10.0	-5.2	
--	------	------	--

	12.5	-7.7	
--	------	------	--

	13.0	-8.2	
--	------	------	--

2+00	13.2	-8.4	
------	------	------	--

PX, 7-22-47 (75)
 CHECK SOUNDINGS ON WEST SLOPES PROJECT # 8

0+00 = STAKE # 18: SOUND S/W.

DIST	SOUND	DIST	SOUND
------	-------	------	-------

0+65	0.0	+4.8	
------	-----	------	--

+70	0.2	+4.6	
-----	-----	------	--

14:53

+80	1.0	+3.8	
-----	-----	------	--

	3.1	+1.7	
--	-----	------	--

1+00	4.0	+0.8	
------	-----	------	--

(4.8)	4.8	0.0	
-------	-----	-----	--

	5.2	-0.4	
--	-----	------	--

	6.0	-1.2	
--	-----	------	--

	6.6	-1.8	
--	-----	------	--

50	8.8	-4.0	
----	-----	------	--

	11.5	-6.7	
--	------	------	--

	12.4	-7.6	
--	------	------	--

	13.4	-8.6	
--	------	------	--

	13.5	-8.7	
--	------	------	--

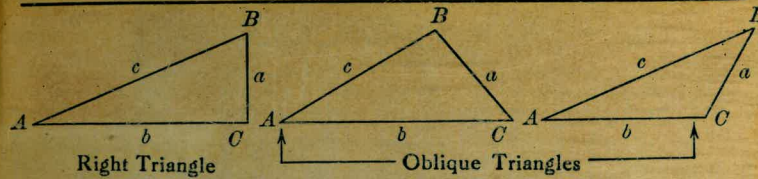
2+00	13.6	-8.8	
------	------	------	--

The image shows an open notebook with two facing pages. Both pages are cream-colored and feature a grid of horizontal green lines and vertical red lines, creating a ledger-style layout. The right page has a small, hand-drawn circle containing the number '56' in the upper right corner. The notebook's binding is visible on the left side, and the pages appear slightly aged with some minor discoloration.

11.57
+ 10.57 against sky.

11.57 to 10.57 in 100.

TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

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

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

REDUCTION TO HORIZONTAL



Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = $5^\circ 10'$. From Table, Page IX, $\cos 5^\circ 10' = .9959$. Horizontal distance = $319.4 \times .9959 = 318.09$ ft.
Horizontal distance also = Slope distance minus slope distance times (1 - cosine of vertical angle). With the same figures as in the preceding example, the following result is obtained. $\text{Cosine } 5^\circ 10' = .9959$. $1 - .9959 = .0041$. $319.4 \times .0041 = 1.31$. $319.4 - 1.31 = 318.09$ ft.

When the rise is known, the horizontal distance is approximately:—the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft., slope distance = 302.6 ft. Horizontal distance = $302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$ ft.