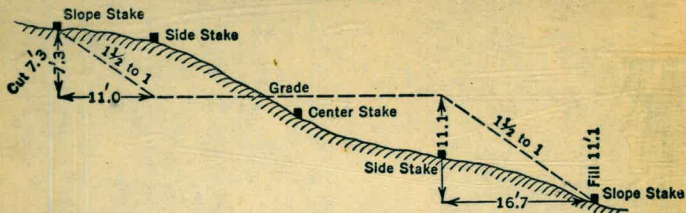


MISSION BAY

75

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.



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

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PAGES

INDEX

DATE

1 - 68 A5 Dredged Soundings Proj # 65036 Mar. 1952

69 - 77 " " " " " "

PX

SOUNDINGS PROJN^o 65036

3-12-52

Stamper
Watson
Sherry
51550NPX^o

STA N. 105+00

0+00 = West 12400 Sound West

Dist Sound Elev DIST Sound Elev

3+40 11.8 7.8 15.0 11.0

Dist Sound Elev DIST. Sound Elev

50 12.0 8.0 14.4 10.4

0+00 1.5 +2.4 1+70 4.4 0.5

12.2 8.2 50 14.2 10.2

7.55 1.5 +2.4 4.4 0.5

12.5 8.5 14.3 10.3

Tide

(3.9) 1.5 +2.4 (3.9) 4.5 0.6

(4.0) 12.6 8.6 (4.0) 14.4 10.4

1.5 +2.4 2+00 4.7 0.8

12.4 8.4 14.4 10.4

1.5 +2.4 5.0 1.1 4+00

11.7 7.7 14.5 10.5

50 1.5 +2.4 5.1 1.2

11.4 7.4 6+00 14.5 10.5

1.7 +2.2 5.3 1.4 8+00

11.5 7.5 14.5 10.5

1.9 +2.0 4.8 0.9

12.0 8.0 14.5 10.5

2.1 +1.8 50 4.8 0.9

12.2 8.2 14.5 10.5

2.4 +1.5 7.5 3.6 50

12.3 8.3 14.5 10.5

1+00 2.7 +1.2 10.3 6.4

12.3 8.3 50 14.5 10.5

3.1 +0.8 11.2 7.3

12.2 8.2 14.3 10.3

3.5 +0.4 11.5 7.6

12.2 8.2 14.0 10.0

3.8 +0.1 3+00 11.5 7.6

12.3 8.3 13.7 9.7

4.0 0.1 11.4 7.5 5+00

12.4 8.4 13.5 9.5

50 4.0 0.1 11.5 7.6

14.0 10.0 7+00 13.8 9.8

4.2 0.3 11.5 7.6

15.0 11.0 14.2 10.2

PX

N 105+00 CONTD

N105+00

3-12-52

PX⁽²⁾

DIST	Sound	Elev	DIST	Sound	Elev	DIST	Sound	Elev	DIST	Sound	Elev
7+20	14.0	9.9		13.6	9.5	11+00	14.3	10.1		14.4	10.2
	13.5	9.4		13.8	9.7		14.0	9.8	13+00	14.3	10.1
	14.2	10.1		13.8	9.7	8+10	14.0	9.8		14.0	9.8
50	14.2	10.1		14.4	10.3		14.0	9.8	(4.2)	14.0	9.8
	14.2	10.1	50	14.0	9.9		14.1	9.9		14.0	9.8
	14.4	10.3		13.6	9.5	50	14.2	10.0		14.0	9.8
(4.1)	14.6	10.5	(4.1)	13.2	9.1	(4.2)	14.2	10.0	50	14.1	9.9
	14.7	10.6		12.8	8.7		14.2	10.0		14.4	10.2
8+00	14.7	10.6		12.7	8.6		14.2	10.0		14.4	10.2
	14.6	10.5	10+00	13.0	8.9		14.2	10.0		14.4	10.2
	14.4	10.3		12.8	8.7	12+00	14.0	9.8		14.5	10.3
	14.1	10.0		12.2	8.1		14.0	9.8	14+00	14.9	10.7
	14.0	9.9		12.2	8.1		14.1	9.9		14.5	10.3
50	14.0	9.9		12.0	7.9		14.0	9.8		14.2	10.0
	14.0	9.9	50	12.1	8.0		14.1	9.9		14.0	9.8
	13.9	9.8		12.7	8.6	50	14.1	9.9		13.4	9.2
	13.9	9.8		13.8	9.7		14.0	9.8	50	13.3	9.1
	13.9	9.8		13.8	9.7		14.0	9.8		13.4	9.2
9+00	13.9	9.8		14.0	9.9		14.5	10.3		13.4	9.2

PX

N 105+00 CONTD

N105+00

3-12-52

③
PX

Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev
14+80	13.5	9.2		13.6	9.3		14.1	9.7
	13.5	9.2	8:20	14.0	9.7		14.4	10.0
15+00	13.4	9.1		14.2	9.9	④.4	14.8	10.4
	13.5	9.2	17+00	14.5	10.2		14.9	10.5
	13.3	9.0		14.5	10.2	19+00	14.0	9.6
④.3	14.0	9.7	④.3	14.2	9.9		14.0	9.6
	13.5	9.2		14.2	9.9		14.2	9.8
50	13.0	8.7		14.1	9.8		14.2	9.8
	13.5	9.2	50	14.0	9.7		13.5	9.1
	13.7	9.4		13.9	9.6	50	13.0	8.6
	13.4	9.1		14.2	9.9		13.0	8.6
	13.2	8.9		14.4	10.1		12.8	8.4
16+00	13.5	9.2		14.4	10.1	④.4	12.8	8.4
	13.5	9.2	18+00	14.4	10.1		12.8	8.4
	13.5	9.2		14.7	10.4	20+00	13.0	8.6
	13.4	9.1		14.8	10.5			
	13.2	8.9		14.5	10.2			
50	13.2	8.9		14.4	10.1			
	13.3	9.0	50	14.4	10.1			

PX

STA N 106+00

0+00 = 12400 West Sound West

DIST	Sound	Elev	DIST	Sound	Elev
------	-------	------	------	-------	------

0+00	1.4	+3.0		2.4	+2.0
------	-----	------	--	-----	------

(4.4)	1.5	+2.9		2.4	+2.0
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	1.5	+2.9	2+00	2.4	+2.0
--	-----	------	------	-----	------

8.41	1.6	+2.8		2.5	+1.9
------	-----	------	--	-----	------

	1.6	+2.8		2.5	+1.9
--	-----	------	--	-----	------

50	1.5	+2.9	(4.4)	2.8	+1.6
----	-----	------	-------	-----	------

	1.5	+2.9		3.2	+1.2
--	-----	------	--	-----	------

	1.6	+2.8	50	3.5	+0.9
--	-----	------	----	-----	------

	2.0	+2.4		4.0	+0.4
--	-----	------	--	-----	------

	2.0	+2.4		4.6	0.2
--	-----	------	--	-----	-----

1+00	2.0	+2.4		5.1	0.7
------	-----	------	--	-----	-----

	2.0	+2.4		6.0	1.6
--	-----	------	--	-----	-----

	2.0	+2.4	3+00	10.1	5.7
--	-----	------	------	------	-----

	2.2	+2.2		12.2	7.8
--	-----	------	--	------	-----

	2.3	+2.1		13.0	8.6
--	-----	------	--	------	-----

50	2.3	+2.1		13.2	8.8
----	-----	------	--	------	-----

	2.4	+2.0		13.0	8.6
--	-----	------	--	------	-----

	2.4	+2.0	50	12.5	8.1
--	-----	------	----	------	-----

N 106+00

3-12-52

PX (4)

DIST	Sound	Elev	DIST	Sound	Elev
------	-------	------	------	-------	------

3+60	12.3	7.8	50	14.5	10.0
------	------	-----	----	------	------

	12.5	8.0		15.3	10.8
--	------	-----	--	------	------

	12.4	7.9		15.0	10.5
--	------	-----	--	------	------

	12.1	7.6	(4.5)	14.7	10.2
--	------	-----	-------	------	------

4+00	12.0	7.5		14.7	10.2
------	------	-----	--	------	------

	11.9	7.4	6+00	14.7	10.2
--	------	-----	------	------	------

(4.5)	12.0	7.5		14.5	10.0
-------	------	-----	--	------	------

	13.1	8.6		14.4	9.9
--	------	-----	--	------	-----

	13.0	8.5		14.4	9.9
--	------	-----	--	------	-----

50	12.7	8.2	8:47	14.2	9.7
----	------	-----	------	------	-----

	12.5	8.0	50	14.1	9.6
--	------	-----	----	------	-----

	12.4	7.9		14.1	9.6
--	------	-----	--	------	-----

	12.4	7.9		14.4	9.9
--	------	-----	--	------	-----

	12.4	7.9		14.5	10.0
--	------	-----	--	------	------

5+00	12.4	7.9		14.4	9.9
------	------	-----	--	------	-----

	12.7	8.2	7+00	14.1	9.6
--	------	-----	------	------	-----

	13.0	8.5		14.0	9.5
--	------	-----	--	------	-----

	13.1	8.6		14.0	9.5
--	------	-----	--	------	-----

	13.0	8.5		14.0	9.5
--	------	-----	--	------	-----

PX

N 106+00 CONTD

DIST	Sound	Elev.	DIST	Sound	Elev
7+40	15.2	10.7	8:50	14.5	9.9
50	15.1	10.6		14.2	9.6
	15.0	10.5	50	14.2	9.6
	14.0	9.5		14.1	9.5
	15.3	10.8		14.0	9.4
	15.4	10.9	(4.6)	13.9	9.3
8+00	15.1	10.6		13.7	9.1
(4.6)	15.1	10.5	10+00	13.7	9.1
	15.1	10.5		13.8	9.2
	15.5	10.9		14.0	9.4
	15.4	10.8		14.0	9.4
50	15.5	10.9		14.1	9.5
	15.5	10.9	50	14.5	9.9
	15.4	10.8		14.8	10.2
	15.2	10.6		15.0	10.4
	15.0	10.4		15.0	10.4
9+00	15.0	10.4		15.0	10.4
	15.0	10.4	11+00	15.0	10.4
	14.8	10.2		15.0	10.4

N106+00
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PX ⑤

DIST	Sound	Elev	DIST	Sound	Elev
	15.0	10.4		14.7	10.0
	15.0	10.4		14.4	9.7
	15.0	10.4		14.0	9.3
50	15.0	10.4		14.1	9.4
	15.0	10.4	50	13.8	9.1
(4.7)	15.0	10.3	(4.7)	14.1	9.4
	15.1	10.4		14.1	9.4
	15.1	10.4		14.1	9.4
12+00	15.0	10.3		13.6	8.9
8:55	15.1	10.4	14+00	13.2	8.5
	15.0	10.3		13.4	8.7
	14.8	10.1		13.4	8.7
	14.8	10.1		13.5	8.8
50	14.8	10.1		13.7	9.0
	14.4	9.7	50	13.8	9.1
	14.5	9.8		14.2	9.5
	14.5	9.8		14.7	10.0
	14.6	9.9		14.7	10.0
13+00	14.5	9.8		14.2	9.5

PX

N106+00 CONTD

N106+00

3-12-52

PX ⑥

DIST	Sound	Elev.	DIST	Sound	Elev.	DIST	Sound	Elev.
15+00	14.2	9.5		14.9	10.1		13.9	9.1
	14.4	9.7	17+00	14.9	10.1		13.4	8.6
	14.2	9.5		15.3	10.5	19+00	13.3	8.5
	14.5	9.8		15.5	10.5		13.3	8.5
(4.8)	14.8	10.0	(4.8)	15.2	10.4	(4.9)	13.1	8.2
50	15.3	10.5		15.0	10.2		12.6	7.7
	15.2	10.4	50	15.0	10.2		12.4	7.5
9:00	15.2	10.4		14.5	9.7	50	12.4	7.2
	15.1	10.3		13.7	8.9		12.1	7.2
	15.0	10.2		13.5	8.7		12.0	7.1
16+00	15.0	10.2		13.7	8.9		11.8	6.9
	15.0	10.2	18+00	13.6	8.8	(4.9)	11.8	6.9
	15.0	10.2		13.8	9.0	9:13		
	15.1	10.3		13.8	9.0	22+00	11.7	6.8
	15.2	10.4		14.0	9.2			
50	15.5	10.7		14.0	9.2			
	15.8	11.0	50	13.8	9.0			
	15.4	10.6		14.0	9.2			
	15.0	10.2		14.0	9.2			

PX

STA N 107+00

0+00 =	12 400 West	Sound	West	Dist	Sound	Elev
	Dist	Sound	Elev	Dist	Sound	Elev
0+00	1.5	+3.4		2.0	+2.9	
(4.9)	1.5	+3.4		2.0	+2.9	
	1.5	+3.4	2+00	1.9	+3.0	
9:18	1.8	+3.1		1.9	+3.0	4+00
	1.8	+3.1	(4.9)	1.9	+3.0	
50	2.0	+2.9		2.2	+2.7	(4.9)
	2.1	+2.8		2.4	+2.5	
	2.1	+2.8	50	2.4	+2.5	
	2.1	+2.8		2.4	+2.5	50
	2.1	+2.8		2.5	+2.4	
1+00	2.2	+2.7		2.4	+2.5	
	2.2	+2.7		2.5	+2.4	
	2.2	+2.7	3+00	2.5	+2.4	
	2.2	+2.7		2.8	+2.1	5+00
	2.2	+2.7		2.8	+2.1	
50	2.1	+2.8		3.9	+1.0	
	2.1	+2.8		3.5	+1.4	
	2.0	+2.9	50	8.7	3.8	

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N 107+00

PX ⑦

Dist	Sound	Elev	Dist	Sound	Elev
11.1	6.2		50	14.0	9.1
12.5	7.6			14.0	9.1
13.2	8.3			13.8	8.9
13.4	8.5		(4.9)	13.5	8.6
13.8	8.9			14.4	9.5
14.0	9.1		6+00	15.0	10.1
(4.9)	13.9	9.0		14.5	9.6
13.8	8.9			14.3	9.4
13.7	8.8		9:21	14.0	9.1
50	13.5	8.6		14.0	9.1
13.2	8.3		50	14.0	9.1
13.1	8.2			14.0	9.1
13.1	8.2			14.0	9.1
13.4	8.5			14.0	9.1
13.2	8.3			13.9	9.0
13.1	8.2		7+00	14.0	9.1
13.1	8.2			14.9	10.0
13.1	8.2			14.9	10.0
13.4	8.5			14.5	9.6

PX

N107+00 CONTD

DIST	Sound	Elev	DIST	Sound	Elev
7+40	14.4	9.5		14.8	9.9
50	14.4	9.5		14.7	9.8
	14.7	9.8	50	14.6	9.7
	15.1	10.2		14.8	9.9
(4.9)	15.1	10.2	(4.9)	14.9	10.0
	15.1	10.2		14.9	10.0
8+00	15.2	10.3		15.0	10.1
	15.3	10.4	10+00	15.0	10.1
	15.2	10.3		15.0	10.1
	15.0	10.1		15.0	10.1
9:30	14.9	10.0		15.0	10.2
50	14.7	9.8		15.1	10.2
	14.7	9.8	50	15.1	10.2
	14.7	9.8		15.1	10.2
	14.7	9.8	9:34	15.1	10.2
	14.5	9.6		15.0	10.1
9+00	14.6	9.7		15.0	10.1
	14.7	9.8	11+00	15.0	10.1
	14.8	9.9		15.0	10.1

3-12-52

N107+00

PX (8)

DIST	Sound	Elev	DIST	Sound	Elev
	15.0	10.1		15.3	10.3
	14.9	10.0		15.0	10.0
	14.1	9.2		14.5	9.5
50	14.1	9.1		14.5	9.5
	14.1	9.1	50	14.0	9.0
	13.8	8.8	(5.0)	14.4	9.4
	13.4	8.4		14.5	9.5
	13.7	8.7		14.5	9.5
12+00	13.9	8.9		14.4	9.4
	14.0	9.0	14+00	14.4	9.4
	14.0	9.0		14.4	9.4
	14.1	9.1	9:40	14.8	9.8
	14.1	9.1		15.1	10.1
50	14.5	9.5		15.0	10.0
	14.9	9.9	50	15.0	10.0
	15.1	10.1		14.9	9.9
	15.2	10.2		15.0	10.0
	15.3	10.3		15.0	10.0
13+00	15.3	10.3		15.2	10.2

PX

N 107+00 CONTD

Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev
15+00	15.4	10.4		14.2	9.2		11.8	6.8
	15.4	10.4	17+00	14.3	9.3		11.4	6.4
	15.4	10.4		13.8	8.8	19+00	12.5	7.5
	14.8	9.8	(5.0)	13.8	8.8	(5.0)	12.8	7.8
	16.0	11.0		13.8	8.8		12.8	7.8
50	16.1	11.1		13.6	8.6		13.1	8.1
	15.8	10.8	50	13.5	8.5		13.1	8.1
	14.2	9.2		13.7	8.7	50	13.0	8.0
	13.3	8.3		13.5	8.5		12.6	7.6
	13.3	8.3		13.0	8.0	9+00	12.3	7.3
16+00	13.5	8.5		12.7	7.7		12.3	7.3
	13.5	8.5	18+00	12.6	7.6	(5.0)	12.3	7.3
(5.0)	13.8	8.8		12.2	7.2	20+00	12.3	7.3
9:43	14.0	9.0		12.1	7.1			
	14.0	9.0		12.1	7.1			
50	14.0	9.0		12.1	7.1			
	14.1	9.1	50	12.0	7.0			
	14.3	9.3		11.7	6.7			
	14.3	9.3		11.8	6.8			

N 107+00
3-12-52

PX

⑨

PX

STA N 108+00

0+00 = 12400 West Sound West

Dist Sound Elev Dist Sound Elev

0+00 0.6 +4.4 2.4 +2.6

0.6 +4.4 2.2 +2.8

(5.0) 6.6 +4.4 2+00 2.4 +2.6

0.6 +4.4 2.4 +2.6

0.6 +4.4 (5.0) 2.4 +2.6

50 0.6 +4.4 2.4 +2.6

0.6 +4.4 2.5 +2.5

0.6 +4.4 50 2.5 +2.5

0.6 +4.4 2.5 +2.5

0.6 +4.4 2.5 +2.5

1+00 0.7 +4.3 2.4 +2.6

1.0 +4.0 2.4 +2.6

1.4 +3.6 3+00 2.4 +2.6

1.5 +3.5 2.4 +2.6

10:07 1.8 +3.2 2.4 +2.6

50 2.1 +2.9 2.4 +2.6

2.1 +2.9 2.3 +2.7

2.3 +2.7 50 2.1 +2.9

N108+00
12-3-52

PX

(70)

Dist Sound Elev Dist Sound Elev

2.4 +2.6 50 13.5 8.5

3.2 +1.8 13.4 8.4

4.0 +1.0 13.3 8.3

4.6 +0.4 13.3 8.3

4+00 8.0 3.0 13.3 8.3

12.0 7.0 6+00 13.5 8.5

(5.0) 13.3 8.3 13.7 8.7

13.7 8.7 13.7 8.7

14.2 9.2 13.5 8.7

50 14.4 9.4 (5.0) 14.8 9.8

14.3 9.3 50 15.1 10.1

14.3 9.3 14.7 9.7

14.3 9.3 14.2 9.2

14.3 9.3 14.1 9.1

5+00 14.2 9.2 14.1 9.1

14.4 9.4 7+00 14.1 9.1

10:13 14.2 9.2 14.1 9.1

14.0 9.0 14.4 9.4

13.8 8.8 15.7 10.7

PX

N108+00 CONTD

DIST	Sound	Elev	DIST	Sound	Elev
7+40	16.1	11.1		14.2	9.3
50	16.0	11.0		14.2	9.3
	15.7	10.7	50	14.3	9.4
	15.4	10.4		14.1	9.2
(4.9)	15.4	10.5		13.5	8.5
	15.4	10.5		13.5	8.6
8+00	15.1	10.2	(4.9)	14.0	9.1
	15.0	10.1	10+00	14.2	9.3
10:18	14.9	10.0		13.8	8.9
	15.0	10.1		13.0	8.1
	15.2	10.3		13.1	8.2
50	15.5	10.6		13.2	8.3
	15.6	10.7	50	13.4	8.5
	15.6	10.7		13.2	8.3
	15.3	10.4		13.1	8.2
	15.1	10.2		13.1	8.2
9+00	14.8	9.9		13.4	8.5
	14.4	9.5	11+00	14.0	9.1
	14.4	9.5		14.0	9.1

3-12-52

N108+00

PX (11)

DIST	Sound	Elev	DIST	Sound	Elev
	14.2	9.3	13+00	15.4	10.6
	14.4	9.5		15.3	10.5
10:23	14.5	9.6		15.3	10.5
50	14.6	9.7	(4.8)	15.0	10.2
50	14.7	9.8	50	14.2	9.4
(4.8)	14.8	10.0	50	14.2	9.4
	14.8	10.0	10:27	14.2	9.4
	14.8	10.0		14.5	9.7
12+00	14.6	9.8		14.2	9.4
12+00	14.5	9.7	14+00	13.3	8.5
	14.5	9.7	14+00	12.4	7.6
	14.5	9.7		12.5	7.7
	14.4	9.6		12.4	7.6
50	14.4	9.6		12.5	7.7
50	14.4	9.6	50	12.7	7.9
	14.5	9.7	50	12.9	8.1
	14.8	10.0		13.2	8.4
	15.1	10.2		13.2	8.4
13+00	15.4	10.6		13.2	8.4

PX

N108+00 CONTO

N108+00

3-12-52

PX

(12)

Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev
15+00	13.2	8.4		13.0	8.3		11.7	7.0
15+00	13.1	8.3	17+00	13.0	8.3		11.6	6.9
	13.0	8.2		12.8	8.1	19+00	11.5	6.8
	13.1	8.3		12.8	8.1		11.5	6.8
	13.1	8.3	(4.7)	14.5	9.8	(4.7)	11.5	6.8
50	13.0	8.2		15.0	10.3		11.4	6.7
(4.7)	13.0	8.3	50	15.0	10.3		11.4	6.7
	12.7	8.0		15.0	10.3	50	11.4	6.7
	12.5	7.8		14.8	10.1		11.4	6.7
	12.4	7.7		14.5	9.8		11.4	6.7
16+00	12.4	7.7		14.0	9.3	10:35	11.3	6.6
	13.0	8.3	18+00	13.9	9.2	(4.7)	11.3	6.6
	13.3	8.6		13.3	8.6	20+00	11.4	6.7
	13.5	8.8	10:34	12.6	7.9			
	13.7	9.0		12.3	7.6			
50	13.0	8.3		11.8	7.1			
	12.2	7.5	50	11.8	7.1			
	12.4	7.7		11.8	7.1			
	12.5	7.8		11.7	7.0			

PX

STA N 109+00

0+00 = 12400 West Sound West

DIST	Sound	Elev	DIST	Sound	Elev
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0+00	0.7	+4.0		1.0	+3.7
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10:54	0.6	+4.1		2.1	+2.6
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(4.7)	0.6	+4.1	2+00	1.3	+3.4
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	0.7	+4.0		1.4	+3.3
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	0.7	+4.0	(4.7)	1.5	+3.2
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50	0.7	+4.0		1.8	+2.9
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	0.8	+3.9		1.8	+2.9
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	0.7	+4.0	50	1.9	+2.8
--	-----	------	----	-----	------

	0.7	+4.0		2.0	+2.7
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	0.7	+4.0		2.0	+2.7
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1+00	0.7	+4.0		2.0	+2.7
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	0.8	+3.9		2.1	+2.6
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	0.8	+3.9	3+00	2.1	+2.6
--	-----	------	------	-----	------

	0.8	+3.9		2.0	+2.7
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	0.4	+4.3		2.1	+2.6
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50	0.5	+4.2		2.1	+2.6
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	0.8	+3.9		2.1	+2.6
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	1.1	+3.6	50	2.1	+2.6
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3-12-52

N 109+00

PX (13)

DIST	Sound	Elev	DIST	Sound	Elev
------	-------	------	------	-------	------

	2.1	+2.6	50	13.2	-8.6
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	2.1	+2.6		13.1	-8.5
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	2.1	+2.6		13.4	-8.8
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	2.1	+2.6	(4.6)	12.8	-8.2
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4+00	2.3	+2.4		12.8	-8.2
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	3.0	+1.7	6+00	12.5	-7.9
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(4.6)	3.7	+0.9		12.4	-7.8
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	4.5	+0.1		12.5	-7.9
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	8.4	-3.8		12.8	-8.2
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50	11.5	-6.9	11:02	12.8	-8.2
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	12.7	-8.1	50	13.0	-8.4
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	13.3	-8.7		13.0	-8.4
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	13.3	-8.7		12.7	-8.1
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	13.2	-8.6		12.2	-7.6
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5+00	13.2	-8.6		14.4	-9.8
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	13.3	-8.7	7+00	14.1	-9.5
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	13.5	-8.9		14.3	-9.7
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	13.5	-8.9		14.5	-9.9
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	13.4	-8.8		14.7	-10.1
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PX

N 109+00 CONTD

DIST	Sound	Elev	DIST	Sound	Elev
7+40	15.0	-10.4		13.5	-9.0
50	15.4	-10.8		13.5	-9.0
	15.0	-10.4	50	13.4	-8.9
	14.5	-9.9		13.7	-9.2
	14.3	-9.7		13.8	-9.3
(4.5)	14.3	-9.8		13.5	-9.0
8+00	14.2	-9.7	(4.5)	13.5	-9.0
	14.1	-9.6	10+00	13.5	-9.0
	13.7	-9.2		13.5	-9.0
	13.7	-9.2		13.5	-9.0
11:05	13.5	-9.0		13.7	-9.2
50	13.4	-8.9		13.8	-9.3
	13.4	-8.9	50	13.9	-9.4
	13.5	-9.0		13.7	-9.2
	13.5	-9.0		13.9	-9.4
	13.4	-8.9		14.0	-9.5
9+00	13.4	-8.9		14.2	-9.7
	13.5	-9.0	11+00	14.5	-10.0
	13.5	-9.0		14.5	-10.0

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N 109+00

PX

(14)

DIST	Sound	Elev	DIST	Sound	Elev
	14.5	-10.0		12.5	-8.1
	14.5	-10.0		12.4	-8.0
	14.6	-10.1		12.0	-7.6
50	14.6	-10.1		11.6	-7.2
	14.5	-10.0	50	11.5	-7.1
	14.4	-9.9		11.5	-7.1
	14.3	-9.8	(4.4)	12.0	-7.6
	14.0	-9.6	(4.4)	11.8	-7.4
12+00	13.4	-9.0		11.7	-7.3
	13.2	-8.8	14+00	11.7	-7.3
	13.4	-9.0		11.6	-7.2
	13.6	-9.2	11:13	11.5	-7.1
	13.5	-9.1		12.1	-7.7
50	13.2	-8.8		12.1	-7.7
	13.0	-8.6	50	12.4	-8.0
	13.0	-8.6		12.7	-8.3
	13.0	-8.6		12.8	-8.4
	12.8	-8.4		12.2	-7.8
13+00	12.7	-8.3		12.5	-8.1

PX

N109+00 CONTD

DIST	Sound	Elev	DIST	Sound	Elev
15+00	12.6	-8.2		14.4	-10.1
	13.0	-8.6	17+00	14.3	-10.0
	13.1	-8.7		14.3	-10.0
(4.3)	13.5	-9.2	(4.3)	14.0	-9.7
	14.5	-10.2		14.0	-9.7
50	15.1	-10.8		14.0	-9.7
	15.0	-10.7	50	13.9	-9.6
	15.0	-10.7		13.9	-9.6
	15.0	-10.7		13.8	-9.5
	15.0	-10.7		13.8	-9.5
16+00	15.0	-10.7		13.5	-9.2
	15.0	-10.7	18+00	13.4	-9.1
	15.0	-10.7		13.4	-9.1
	14.9	-10.6		13.4	-9.1
	14.8	-10.5		13.3	-9.0
50	14.5	-10.2	11:19	13.4	-9.1
	14.5	-10.2	50	13.3	-9.0
	14.5	-10.2		12.7	-8.4
	14.4	-10.1		11.9	-7.6

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N109+00

PX

(15)

DIST	Sound	Elev	DIST	Sound	Elev
	11.0	-6.7			
	10.7	-6.4			
19+00	10.5	-6.2			
(4.2)	10.6	-6.4			
	10.6	-6.4			
	10.5	-6.3			
	10.6	-6.4			
50	10.3	-6.1			
	9.0	-4.8			
	8.4	-4.2			
11:33	6.7	-2.5			
	4.5	-0.3	(4.2)		
20+00	4.1	+0.1			

PX

STA N 104+00

0+00 = 12 400 West Sound West

Dist	Sound	Elev	Dist	Sound	Elev
0700	3.3	+0.9		2.8	+1.4
(4.2)	3.5	+0.7		2.9	+1.3
"	3.5	+0.7	2+00	3.5	+0.7
	3.4	+0.8		4.7	0.5
11:40	3.4	+0.8		8.5	4.3
50	3.4	+0.8	(4.2)	11.1	6.9
	4.0	+0.2		11.3	7.1
	4.0	+0.2	50	11.8	7.6
	4.0	+0.2		11.8	7.6
	4.2	0.0		11.8	7.6
1+00	4.2	0.0		11.8	7.6
	4.2	0.0		12.0	7.8
	4.0	+0.2	3+00	12.0	7.8
	3.8	+0.4		12.2	8.0
	3.4	+0.8		12.5	8.3
50	3.1	+1.1		12.6	8.4
	2.8	+1.4		12.8	8.6
	2.8	+1.4	50	13.0	8.8

3-12-52

N 104+00

PX

(26)

Dist	Sound	Elev	Dist	Sound	Elev
	13.0	8.8	50	14.4	10.3
11:45	12.7	8.5		14.4	10.3
	12.3	8.1		14.4	10.3
(4.1)	12.3	8.2		14.5	10.4
4+00	12.3	8.2	(4.1)	14.5	10.4
	12.3	8.2	6+00	14.3	10.2
	12.3	8.2		14.0	9.9
	12.3	8.2		14.0	9.9
	12.4	8.3	11:50	13.7	9.6
50	12.3	8.2		13.6	9.5
	15.1	11.0	50	13.3	9.2
	15.0	10.9		13.4	9.3
	15.0	10.9		13.5	9.4
	15.0	10.9		13.8	9.7
5+00	14.7	10.6		13.7	9.6
	14.6	10.5	7+00	13.8	9.7
	14.5	10.4		14.5	10.4
	14.5	10.4		14.5	10.4
	14.4	10.3		14.0	9.9

PX

N104+00 CONTD

DIST	Sound	Elev	DIST	Sound	Elev
7+90	13.3	9.2		6.6	2.6
50	13.3	9.2		6.7	2.7
	13.1	9.0	50	7.0	3.0
	12.5	8.4		6.8	2.8
	11.2	7.1		6.4	2.4
(4.0)	10.0	6.0		6.0	2.0
8+00	4.2	0.2	(4.0)	5.0	1.0
	4.0	0.0	10+00	4.2	0.2
	5.5	1.5		2.9	+1.1
	6.4	2.4		2.8	+1.2
	6.5	2.5		2.8	+1.2
50	6.5	2.5		2.8	+1.2
	6.4	2.4	50	2.8	+1.2
	6.4	2.4		2.8	+1.2
	6.2	2.2		2.8	+1.2
	6.2	2.2		2.8	+1.2
9+00	6.3	2.3		2.8	+1.2
	6.6	2.6	11+00	2.8	+1.2
	6.6	2.6		2.8	+1.2

3-12-52

N104+00

PX (17)

DIST	Sound	Elev	DIST	Sound	Elev
	2.8	+1.2		9.0	5.1
	2.8	+1.2		9.9	5.1
	2.8	+1.2		10.1	6.2
50	2.8	+1.2		11.3	7.4
	2.8	+1.2	50	12.8	8.9
	2.7	+1.3		13.2	9.3
	2.7	+1.2	(3.9)	13.2	9.3
	2.7	+1.2		13.2	9.3
12+00	2.7	+1.2		13.3	9.4
	2.6	+1.3	14+00	13.3	9.4
	2.6	+1.3		13.1	9.2
	2.5	+1.4		13.1	9.2
	2.6	+1.3	12+03	13.0	9.1
50	2.6	+1.3		13.1	9.2
	2.7	+1.2	50	13.1	9.2
	2.8	+1.1		13.0	9.1
	4.0	0.1		13.0	9.1
	4.7	0.8		13.1	9.2
13+00	4.8	0.9		13.5	9.6

PX

N104+00 CONTD

DIST	Sound	Elev	DIST	Sound	Elev
15+00	13.5	9.6		13.4	9.6
	13.2	9.3	17+00	13.5	9.7
	14.0	10.1		13.8	10.0
(3.8)	13.5	9.7		13.5	9.7
	13.7	9.9	(3.8)	13.2	9.4
50	13.7	9.9		13.5	9.7
	13.7	9.9	50	13.7	9.9
	13.8	10.0		13.9	10.1
	14.0	10.2		14.0	10.2
	14.0	10.2		13.5	9.7
16+00	14.1	10.3		13.1	9.3
	14.2	10.4	18+00	13.1	9.3
	14.0	10.2		13.1	9.3
	13.9	10.1		13.1	9.3
12.06	13.9	10.1		13.2	9.4
50	13.7	9.9		12.5	8.7
	13.8	10.0	50	14.0	10.2
	13.4	9.6		13.5	9.7
	13.2	9.4		13.6	9.8

3-12-52

N104+00

PX

(18)

DIST	Sound	Elev	DIST	Sound	Elev
	13.6	9.8		13.6	9.8
	13.6	9.9	(3.7)	13.6	9.9
	13.5	9.8	19+00	13.5	9.8
	13.5	9.8		13.5	9.8
	13.5	9.8		13.5	9.8
	13.5	9.8		13.5	9.8
	13.8	10.1		13.8	10.1
	14.0	10.3	50	14.0	10.3
	13.8	10.1		13.8	10.1
	14.0	10.3		14.0	10.3
	14.0	10.3		14.0	10.3
	14.0	10.3	(3.7)	14.0	10.3
	14.1	10.4	20+00	14.1	10.4

PX

N/103+00

0+00 = 12400 West Sound West

Dist	Sound		Dist	Sound
0+00	3.2	+1.5	9.3	4.6
9:40	3.2	+1.5	11.0	6.3
	3.4	+1.3	2+00	11.5
(4.7)	3.4	+1.3	12.0	7.3
	3.4	+1.3	12.0	7.3
50	3.4	+1.3	(4.7)	12.4
	3.0	+1.7		12.5
	3.0	+1.7	50	12.5
	2.7	+2.0		12.6
	2.7	+2.0		12.8
1+00	2.6	+2.1		13.0
	2.6	+2.1		13.0
	3.0	+1.7	3+00	12.9
	3.5	+1.2		12.9
	4.0	+0.7		12.9
50	4.5	+0.2		13.1
	5.3	0.6		13.2
	6.8	2.1	50	13.2

3-13-52

PX (19)

Dist	Sound	Dist	Sound
13.4	8.7	50	15.0
13.3	8.6		14.8
13.2	8.5		14.8
13.2	8.5		14.8
13.4	8.7	4+00	13.4
13.3	8.6		13.3
13.3	8.5	(4.8)	13.3
15.0	10.2		15.0
15.1	10.3		15.1
15.0	10.2	50	15.0
14.9	10.1		14.9
14.6	9.8	50	13.7
14.6	9.8		13.4
14.7	9.9		12.4
14.9	10.1		10.7
15.0	10.2	5+00	14.9
15.0	10.2		10.1
14.9	10.1	7+00	15.0
15.0	10.2		10.2
14.9	10.1		10.1
15.0	10.2		10.1
14.9	10.1		10.1
			10.1

PX

N103+00 CONTD

3-13-52

N103+00

PX (20)

Dist	Sound		Dist.	Sound		Dist.	Sound		Dist.	Sound	
7+40	3.0	+1.8		5.1	0.3		2.8	+2.0		2.9	+2.0
50	2.5	+2.3	9:52	5.1	0.3		2.8	+2.0	(9.57)	3.0	+1.9
	4.1	+0.7	50	4.7	+0.1		2.7	+2.1		3.1	+1.8
	5.0	-0.2		4.1	+0.7	50	2.6	+2.2		3.2	+1.7
(4.8)	7.0	2.2	(4.8)	3.6	+1.2		2.6	+2.2	50	3.0	+1.9
	7.5	2.7		3.4	+1.4	(7.9)	2.8	+2.1	(4.9)	3.0	+1.9
8+00	8.2	3.4		3.1	+1.7		2.8	+2.1		3.0	+1.9
	8.8	4.0	10+00	3.1	+1.7		3.0	+1.9		3.0	+1.9
	9.0	4.2	-	3.1	+1.7	12+00	3.0	+1.9		3.1	+1.8
	8.7	3.9		3.1	+1.7		3.0	+1.9	14+00	3.0	+1.9
	8.3	3.5		3.1	+1.7		3.0	+1.9		3.1	+1.8
50	8.0	3.2		3.1	+1.7		2.9	+2.0		3.0	+1.8
	7.6	3.2	50	3.1	+1.7		2.9	+2.0		3.1	+1.8
	7.4	2.6		3.1	+1.7	50	3.1	+1.8		3.2	+1.7
	6.8	2.0		3.0	+1.8		2.9	+2.0	50	3.1	+1.8
	6.1	1.3		2.8	+2.0		2.9	+2.0		3.1	+1.8
9+00	5.0	0.2		3.0	+1.8		2.8	+2.1		3.1	+1.8
	5.0	0.2	11+00	2.9	+1.9		2.8	+2.1		3.2	+1.7
	5.0	0.2		2.8	+2.0	13+00	2.8	+2.1		3.3	+1.6

PX

N103+00 CONTD

Dist	Sound	Dist	Sound
15+00	3.4 +1.5		14.0 9.1
	3.4 +1.5	17+00	14.0 9.1
	3.1 +1.8		14.0 9.1
	3.2 +1.7		14.1 9.2
	3.5 +1.4		14.2 9.3
50	3.5 +1.4	(4.9)	14.2 9.3
(4.9)	3.5 +1.4	50	14.0 9.1
	3.5 +1.4		14.0 9.1
10:00	3.6 +1.3		14.0 9.1
	4.0 +0.9		14.0 9.1
16+00	5.0 0.1		14.0 9.1
	5.5 0.6	18+00	14.0 9.1
	8.9 4.0		14.1 9.2
	10.0 5.1		14.0 9.1
	10.8 5.9		14.0 9.1
50	11.0 6.1		14.0 9.1
	12.7 7.8	50	14.1 9.2
	13.0 8.1		14.3 9.4
	13.4 8.5		14.4 9.5

3-13-52
N103+00

PX (21)

Dist	Sound	Dist	Sound
10:00	14.9 10.0		2.4 +2.1
	15.1 10.2	1+00	2.4 +2.1
19+00	16.7 11.8		2.4 +2.1
	13.5 8.6		2.4 +2.1
	13.5 8.6		2.1 +2.4
(4.9)	13.5 8.6		2.0 +2.5
	14.1 9.2	50	1.8 +2.7
	14.0 9.1		1.8 +2.7
	13.5 8.6	(4.5)	2.0 +2.5
	12.0 7.1		2.0 +2.5
	11.1 6.2		2.7 +1.8
	10.0 5.1	2+00	3.4 +1.1
20+00	6.8 1.9		4.5 0.0
Edge East			
Point 10	3.1 +1.4		5.6 1.1
11:22	3.1 +1.4		6.0 1.5
(4.5)	3.1 +1.4		6.1 1.6
	3.1 +1.4	50	7.1 2.6
	2.9 +1.6		8.0 3.5
	2.9 +1.6		8.0 3.5
	2.7 +1.8		8.0 3.5
	2.4 +2.1		7.8 3.3
		3+00	7.8 3.3

PX

STA N. 100+00

0+00 = 12400 West. Sound West

Dist.	Sound	Dist.	Sound
0+00	4.6	1.0	13.3 9.7
8:22	4.4	0.8	13.1 9.5
(3.6)	4.6	1.0	2+00 12.8 9.2
	5.5	1.9	12.4 8.8
	7.7	4.1	12.2 8.6
50	11.2	7.6	(3.6) 12.0 8.4
	12.5	8.9	11.8 8.2
	12.4	8.8	50 14.5 10.9
	12.4	8.8	14.6 11.0
	12.6	9.0	14.4 10.8
1+00	12.5	8.9	14.0 10.4
	12.5	8.9	13.8 10.2
	12.5	8.9	3+00 14.0 10.4
	13.0	9.4	13.8 10.2
	13.1	9.5	13.8 10.2
50	13.2	9.6	13.8 10.2
	13.3	9.7	13.5 9.9
	13.4	9.8	50 13.5 9.9

3-13-52

Sta N 100+00

PX⁽²²⁾

Dist	Sound	Dist	Sound
13.3	9.6	50	12.0 8.3
13.0	9.3		8.3 5.6
(3.7)	12.5 8.8		2.6 +1.1
12.2	8.5	8:33	1.5 +2.2
4+00	12.3 8.6	(3.7)	1.2 +2.5
13.0	8.3	6+00	3.2 +0.5
12.5	8.8	Sound East	
12.5	8.8	(3.9)	10 5.0 1.3
12.4	8.7	8:45	4.8 1.1
50	12.1 8.4		5.2 3.5
12.8	9.1		5.8 4.1
12.7	9.0	50	5.3 3.6
12.5	8.8		4.5 2.8
12.5	8.8	(3.9)	4.0 2.3
5+00	12.3 8.6		3.7 0.0
12.5	8.8		3.7 0.0
12.2	8.5	1+00	3.9 0.2
12.5	8.8		4.0 0.3
8:30	12.0 8.3		4.8 1.1

pt

N100+00 CONT'D Sound East

STA N101+00

1005
1004

PX

0+00 = 12400 West Sound West

Dist	Sound	Dist	Sound	Dist	Sound	Dist	Sound
1+30	5.2 1.2		10.5 6.5				
8:47	5.5 1.5	(4.0)	10.4 6.4	0+00	2.0 +2.1		13.1 9.0
50	6.4 2.4		10.4 6.4		2.0 +2.1		13.3 9.2
	7.1 3.1	50	10.4 6.4	(4.1)	2.2 +1.9	2+00	13.3 9.2
(4.0)	8.3 4.3		10.2 6.2		2.8 +1.3		13.3 9.2
	9.0 5.0		10.0 6.0		3.3 +0.8	(4.1)	13.0 8.9
	9.4 5.4		10.0 6.0	50	3.7 +0.4		12.7 8.6
2+00	10.0 6.0		10.3 6.3		4.7 0.6		12.6 8.5
	10.8 6.8	4+00	10.5 6.5		5.5 1.4	50	12.7 8.6
	10.6 6.6		10.4 6.4		6.0 1.9		12.8 8.7
	10.8 6.8		10.3 6.3		6.7 2.6		12.8 8.7
	11.0 7.0		10.1 6.1	1+00	10.0 5.9		12.8 8.7
50	11.1 7.1		10.0 6.0		12.7 8.6		14.7 10.6
	11.2 7.2	50	9.5 5.5		13.0 8.9	3+00	15.8 11.7
	11.2 7.2	"	9.0 5.0		13.0 8.9		15.5 11.4
	11.2 7.2		8.0 4.0		12.8 8.7		15.1 11.0
	11.1 7.1	(4.0)	8.0 4.0	50	12.8 8.7		14.5 10.4
			7.5 3.5				
3+00	11.0 7.0	5+00	6.7 2.7		12.8 8.7		14.5 10.4
	10.7 6.7		6.2 2.2		13.0 8.9	50	14.7 10.6
			5.1 1.1				
			4.0 0.0				

to 3.25 2.4

PX

N101+00 CONTD

0+00 = 12200 West Sound West

Dist	Sound	Dist	Sound
3+60	14.5 10.4	13.2 9.0	
	14.0 9.9	50 13.2 9.0	
(4.2)	14.1 9.9	13.2 9.0	
	14.3 10.1	13.2 9.0	
4+00	14.5 10.3	13.0 8.8	
	14.5 10.3	(4.2) 11.0 6.8	
9.00.	14.7 10.5	6+00 3.5 +0.7	
	14.7 10.5	1.0 +3.2	
	14.5 10.3		
50	14.5 10.3		
	14.5 10.3		
	14.3 10.1		
	14.3 10.1		
	14.3 10.1		
5+00	14.2 10.0		
	14.0 9.8		
	14.0 9.8		
	13.8 9.6		

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N101+00 Sound East

(24)

Dist	Sound	Dist	Sound
10	2.4 +1.8	2+00	7.4 3.2
(4.2)	2.1 +2.1		8.6 4.4
	2.0 +2.2	(4.2)	8.8 4.6
	2.0 +2.2		9.3 5.1
50	2.1 +2.1		9.4 5.2
	2.1 +2.1	50	10.0 5.8
	2.1 +2.1		10.2 6.0
	2.1 +2.1		10.3 6.1
	2.1 +2.1		10.5 6.3
1+00	2.1 +2.1		10.6 6.4
	2.1 +2.1	3+00	10.5 6.3
	2.1 +2.1		10.4 6.2
	2.2 +2.0		10.3 6.1
	3.3 +0.9		10.0 5.8
50	4.3 0.1		9.8 5.6
9.09	3.4 1.2	50	9.8 5.6
	6.0 1.8		9.5 5.3
	6.8 2.6		9.2 5.0
	7.2 3.0		9.1 4.9
			9.1 4.9
4+00			9.1 4.9

PX

STA N 102+00

0+00 = 12400 West Sound West

Dist Sound Dist Sound

0+00 2.0 +2.4 13.2 8.8

2.0 +2.4 13.2 8.8

(4.4) 2.2 +2.2 2+00 13.3 8.9

2.2 +2.2 13.3 8.9

2.2 +2.2 9:22 13.3 8.9

50 2.3 +2.1 (4.4) 13.3 8.9

2.4 +2.0 13.2 8.8

2.4 +2.0 50 13.2 8.8

2.5 +1.9 13.3 8.9

3.1 +1.3 13.6 9.2

1+00 3.7 +0.7 13.8 9.4

4.3 +0.1 13.6 9.2

5.5 1.1 3+00 13.5 9.1

8.8 4.4 13.6 9.2

11.0 6.6 13.5 9.1

50 12.1 7.7 13.5 9.1

12.5 8.1 13.5 9.1

13.0 8.6 50 13.5 9.1

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N 102+00

10.700
E 300

(25)

PX

Dist Sound Dist Sound

13.5 9.1 50 14.1 9.6

13.7 9.3 14.1 9.6

(4.5) 15.5 11.0 14.1 9.6

15.4 10.9 13.8 9.3

4+00 15.1 10.6 13.8 9.3

14.6 10.1 6+00 13.3 8.8

13.8 9.3 12.5 8.0

13.8 9.3 9.8 5.3

14.0 9.5 (4.5) 4.7 0.2

50 14.0 9.5 1.7 +2.8

14.1 9.6 50

14.0 9.5

14.0 9.5

14.1 9.6

5+00 14.3 9.8

9:25 14.3 9.8 7+00

14.2 9.7

14.2 9.7

14.2 9.7

Px

N102+00 CONTD Sound East

DIST	Sound	DIST	Sound
10	2.0 +2.5	2+00	7.0 2.5
	2.3 +2.2		7.4 2.9
(4.5)	2.4 +2.1		7.4 2.9
	2.3 +2.2		8.0 3.5
50	2.5 +2.0		8.0 3.5
	2.2 +2.3	50	8.5 4.0
	2.3 +2.2		8.8 4.3
	2.3 +2.2		8.8 4.3
	2.5 +2.0	(4.5)	9.0 4.5
1+00	2.5 +2.0		8.8 4.3
	2.6 +1.9	3+00	8.4 3.9
	2.5 +2.0		9.0 4.5
	2.3 +2.0		
	2.4 +2.1		
50	2.5 +2.0		
	3.7 +0.8		
	4.5 0.0		
	5.5 1.0		
	6.2 1.7		

3-13-52

N104+00 Sound East

Px (26)

DIST	Sound	DIST	Sound
0+00	1.4 +3.0		
	3.2 +1.2	2+00	1.5 +2.9
	3.2 +1.2		1.4 +3.0
	3.1 +1.3		2.7 +1.7
11:32	3.0 +1.4		3.6 +0.8
50	3.0 +1.4	(4.4)	4.5 0.1
(4.4)	2.8 +1.6	50	4.8 0.4
	2.6 +1.8		5.1 0.7
	2.4 +2.0		6.0 1.6
	2.1 +2.3		6.6 2.2
1+00	1.7 +2.7	11:38	7.0 2.6
	1.5 +2.9	3+00	7.4 3.0
	1.4 +3.0		
	1.2 +3.2		
	1.2 +3.2		
50	1.1 +3.3		
	1.2 +3.2		
	1.4 +3.0		
	1.3 +3.1		

3-13-52

Px 27

N 105+00 Sound East Px

12400 WB/L N 106+00 Sound East

0+00 = West 12400

Dist Sound N 107+00 S. East

Dist	Sound	Dist	Sound
10	1.7 +2.7 ⁶	11:45	1.0 +3.3
11:40	1.7 +2.7 ⁶	2+00	1.1 +3.2
	1.4 +3.0		
(4.3)	1.3 +3.0		
50	1.0 +3.3		
	1.1 +3.2		
	1.1 +3.2		
	1.0 +3.3		
	1.1 +3.2		
1+00	1.1 +3.2		
	0.9 +3.4		
	1.0 +3.3		
	1.0 +3.3		
	1.0 +3.3		
50	1.1 +3.2		
	1.1 +3.2		
	1.1 +3.2		
	1.0 +3.3		

Dist	Sound	Dist	Sound
0+10	1.2 +3.1	10	0.4 +3.8
	0.9 +3.4	1152	0.4 +3.8
	1.0 +3.2	(4.1)	0.3 +3.8
	1.1 +3.1		0.2 +3.9
50	1.1 +3.1	50	0.1 +4.0
	1.1 +3.1		+0.1 +4.2
	1.0 +3.2		+0.1 +4.2
	1.0 +3.2		+0.2 +4.3
	1.1 +3.1		+0.3 +4.4
1+00	1.1 +3.1	2+00	+0.3 +4.4

832 (2.8)

500 W.
400 E.

STA N 99+00

Px

3-14-52
N 99+00

(2.8)

0+00 = W12400 Sound West

Dist		Sound		Dist		Sound		
						2.3	+0.9	
0+00	6.7	3.5		12.1	8.9	(3.3)	2.3	+1.0
9:05	7.0	3.8		12.0	8.8		2.3	+1.0
(3.2)	10.3	7.1	2+00	11.6	8.4		2.2	+1.1
	12.4	9.2	9:10	11.7	8.5	4+00	2.0	+1.3
	12.8	9.6	(3.3)	11.7	8.5		1.7	+1.6
50	13.0	9.8		11.7	8.5	9:15	1.3	+2.0
	13.2	10.0		11.0	7.8			
	13.3	10.1	50	10.3	7.1			
	13.3	10.1		8.3	5.1	50		
	13.1	9.9		6.6	3.4			
1+00	13.0	9.8		4.4	1.2			
	12.8	9.6		3.4	0.2			
	12.5	9.3	3+00	2.1	+1.1			
	12.4	9.2		2.1	+1.1	5+00		
	12.1	8.9		2.4	+0.8			
50	12.3	9.1		3.0	+0.2			
	12.4	9.2		2.5	+0.7			
	12.1	8.9	50	2.4	+0.8			

N 99+00 CONTD SOUND EAST PX

W 100
E 100

3-14-52
STA N 98+00

Dist	Sound	Dist	Sound
10	5.2 1.8	2+00	10.2 6.8
(3.4)	4.5 1.1		10.4 7.0
	4.5 1.1		11.3 7.9
9:17	4.2 0.9	(3.4)	11.7 8.3
50	3.5 0.1		12.0 8.6
	3.7 0.3	50	12.5 9.1
	3.6 0.2		12.7 9.3
	4.0 0.6	9:20	13.0 9.6
	4.1 0.7		13.4 10.0
1+00	4.1 0.7		13.4 10.0
	4.1 0.7	3+00	13.3 9.9
	4.5 1.1		12.8 9.4
	5.4 2.0		12.0 8.6
	6.5 3.1		11.0 7.6
50	8.0 4.6		10.5 7.1
	8.6 5.2	50	10.5 7.1
	9.3 5.9		10.6 7.2
	9.8 6.4		10.5 7.1
	10.2 6.8		8.8 5.4
			8.8 5.4
		4+00	8.1 4.7

0+00 = W 12400 Sound West

Dist	Sound	Dist	Sound
0+00 = 0+75 ON R/L	50	13.5	9.9
80	12.1 8.5		13.4 9.8
	12.4 8.8		13.1 9.5
1+00	13.1 9.5	(3.8)	13.1 9.3
(3.5)	13.1 9.5		13.4 9.6
	12.7 9.1	3+00	13.4 9.6
	12.5 8.9		13.0 9.2
	12.8 9.2		11.0 7.2
50	12.8 9.2		7.4 3.6
	12.6 9.0		2.3 +1.5
	12.8 9.2	50	1.7 +1.1
	13.0 9.4		2.0 +1.8
	13.0 9.4		2.0 +1.8
2+00	13.0 9.4		2.0 +1.8
	13.2 9.6		2.0 +1.8
	13.5 9.9	4+00	2.2 +1.6
	13.7 10.1		2.4 +1.4
	13.7		2.4 +1.4

N 98+00 CONTD SOUND WEST

DIST	SOUND	DIST	SOUND
4+30	2.3 +1.5	6.1	2.4
	2.2 +1.6	(3.7)	6.8 3.1
(3.7) ⁵⁰	2.1 +1.6		7.8 4.1
	2.3 +1.4	50	8.0 4.3
	2.5 +1.2		7.5 4.2
	2.5 +1.2		6.6 2.9
9:40	2.4 +1.3		6.1 2.4
5+00	2.4 +1.3	9:43	5.1 1.4
	2.5 +1.2	7+00	4.0 0.3
	2.2 +1.5		
	1.9 +1.8		
	2.0 +1.7		
50	2.0 +1.7		
	2.1 +1.6		
	2.2 +1.5		
	2.2 +1.5		
	2.8 +0.9		
6+00	3.5 +0.2		
	2.8 1.1		

N 98+00 W 12400 B/L SOUND EAST

DIST	SOUND	DIST	SOUND
0+00 = 0	+77 B/L	13.0	9.2
90	11.3 7.5	13.4	9.6
1+00	10.8 7.0	13.7	9.9
(3.8)	8.0 4.2	3+00	13.7 9.9
	6.1 2.3		13.8 10.0
	5.0 1.2	(3.8)	13.8 10.0
9:42	4.7 0.9		13.4 9.6
50	4.7 0.9		13.1 9.3
	5.0 1.2	50	13.1 9.3
	5.4 1.6	9:53	13.0 9.2
	6.5 2.7		13.0 9.2
	8.4 4.6		13.0 9.2
2+00	9.4 5.6		12.7 8.9
	10.5 6.7	4+00	12.1 8.3
	11.0 7.2		11.5 7.7
	11.8 8.0		11.1 7.3
	12.1 8.3		10.3 6.5
50	12.4 8.6		9.4 5.6
	12.7 8.9	50	8.6 4.8
			7.8 4.0
			6.8 3.0

500 W
400 E

STA N 97+00

0+00 = W 12400 Sound West

Sounding with Spar

0+00 = 0+73 B/L

DIST SOUND

80 12.3 8.3

12.9 8.9

1+00 13.3 9.3

13.2 9.2

(4.0) 13.0 9.0

12.8 8.8

12.8 8.8

50 12.8 8.8

10:15 12.8 8.8

12.8 8.8

12.6 8.8

13.8 9.8

2+00 14.7 10.7

15.1 11.1

15.0 11.0

14.6 10.6

14.2 10.2

DIST SOUND

50 13.4 9.4

11.0 7.0

6.5 2.5

(4.0) 3.5 10.5

2.8 11.2

3+00 2.4 11.6

2.1 11.9

2.0 12.0

1.8 12.2

1.8 12.2

50 1.6 12.4

1.8 12.2

10:28 2.1 11.9

2.0 12.0

2.0 12.0

2.0 12.0

4+00 2.0 12.0

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N 97+00 CONTD

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DIST SOUND

2.0 12.0

2.8 11.2

2.4 11.6

(4.0) 2.9 11.1

50 3.1 10.9

2.8 11.2

2.8 11.2

2.6 11.4

2.7 11.3

5+00 2.8 11.2

3.0 11.0

10:30 3.1 10.9

3.2 10.8

3.5 10.5

50 4.4 10.4

5.0 1.0

5.5 1.5

6.3 2.3

7.2 3.2

6+00 8.0 4.0

12400 B/N 97+00 CONTD Sound East

0+00 = 0+73 B/L

	Dist Sound		Dist Sound	
	80	13.0 8.9	15.2 11.1	
10:25	13.0 8.9	15.0 10.9		
1+00	12.8 8.7	14.8 10.7		
(4.1)	12.6 8.5	14.8 10.7		
	12.4 8.3	3+00 14.9 10.8		
	12.1 8.0	15.0 10.9		
	11.4 7.3	(4.1) 15.1 11.0		
50	9.8 5.7	15.1 11.0		
	9.4 5.3	14.7 10.6		
	10.6 6.5	50 13.6 9.5		
	11.5 7.4	12.3 8.2	1+00	12.5 8.3
	12.6 8.5	11.8 7.7		13.3 9.1
2+00	13.2 9.1	11.0 6.9		13.8 9.6
	13.8 9.7	10.2 6.1		
	14.3 10.2	4+00 10.0 5.9		
	14.6 10.5	9.0 4.9		
10:30	15.1 11.0			
50	15.2 11.0			

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STA 99+00 N.

(32)

0+00 = 12850 West; Sound North

	Dist Sound	
0+00	1.3 +2.9	
(4.2)	1.0 +3.2	
	0.6 +3.6	
	0.6 +3.6	
	0.6 +3.6	
50	0.6 +3.6	
	0.8 +3.4	
	2.3 +1.9	
	7.0 2.8	
	11.0 6.8	
1+00	12.5 8.3	
	13.3 9.1	
	13.8 9.6	

N. 124+00 W 13000 Sound 115

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Dist	Sound	Dist	Sound	Px	Dist	Sound	Dist	Sound
0+00	4.1 +1.4		4.6 +0.9		4.1 +1.4		12.5	7.0
	4.2 +1.3	2+00	4.8 +0.7		4.1 +1.4		12.5	7.0
9:00	4.4 +1.1		4.8 +0.7	4+00	4.1 +1.4		12.5	7.0
	4.4 +1.1	2:03	4.8 +0.7		4.1 +1.4	6+00	13.2	7.7
	4.4 +1.1		4.5 +1.0		4.1 +1.4		13.6	8.1
50	4.5 +1.0		4.4 +1.1		4.1 +1.4		13.7	8.2
	4.5 +1.0	50	4.4 +1.1		4.2 +1.3	(5.5)	14.0	8.5
	4.5 +1.0		4.2 +1.3	50	4.2 +1.3		14.0	8.5
(5.5)	4.5 +1.0	(5.5)	4.2 +1.3	(5.5)	4.2 +1.3	50	14.2	8.7
	4.5 +1.0		4.1 +1.4		4.2 +1.3		14.2	8.7
1+00	4.4 +1.1		4.1 +1.4		4.5 +1.0		16.0	10.5
	4.5 +1.0	3+00	4.1 +1.4		5.6 -0.1		16.4	10.9
	4.6 +0.9		4.1 +1.4	5+00	8.5 +3.0		16.4	10.9
	4.6 +0.9		4.1 +1.4		12.7 7.2	7+00	16.4	10.9
	4.6 +0.9		4.0 +1.5		13.0 7.5		16.1	10.6
50	4.5 +1.0		3.9 +1.6		13.0 7.5		15.8	10.3
	4.5 +1.0	50	4.0 +1.5	9:05	12.9 7.4		15.4	9.9
	4.6 +0.9		4.0 +1.5	50	12.8 7.3		15.5	10.0
	4.7 +0.8		4.0 +1.5		12.7 7.2	50	15.8	10.3

N 12A+00 CONTD

DIST	SOUND		DIST	SOUND	
7+60	15.6	10.1	50	16.3	10.9
	15.6	10.1		16.3	10.9
9:07	15.6	10.1		16.3	10.9
	15.7	10.2		16.4	11.0
8+00	15.9	10.4	9:10	16.6	11.2
	15.6	10.1	10+00	16.6	11.0
(5.5)	15.6	10.1		16.5	11.1
	15.5	10.0		15.7	11.3
	15.5	10.0	(5.9)	14.5	11.4
50	15.4	9.9		9.4	9.4
	15.3	9.8	50	5.3	0.1
	15.2	9.7		5.5	+0.1
	14.9	9.4		5.4	0.0
	14.7	9.2		5.2	+0.2
9+00	15.5	10.0		5.2	+0.2
	16.0	10.5			
	16.0	10.5			
	16.1	10.6			
	16.3	10.8			

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N 123+00 W 13,000 SOUND WEST

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DIST	SOUND		DIST	SOUND	
0+00	3.5	+1.8		4.4	+0.9
9:20	3.6	+1.7	2+00	4.3	+1.0
	3.6	+1.7		4.3	+1.0
	3.8	+1.5		4.3	+1.0
	4.0	+1.3		4.1	+1.2
50	4.0	+1.3	9:23	4.0	+1.3
	4.0	+1.3	50	4.0	+1.3
(5.3)	4.0	+1.3	(5.3)	3.8	+1.5
	4.0	+1.3		3.6	+1.7
	4.1	+1.2		3.5	+1.8
1+00	4.1	+1.2		3.5	+1.8
	4.1	+1.2	3+00	3.5	+1.8
	4.1	+1.2		3.5	+1.8
	4.2	+1.1		3.5	+1.8
	4.2	+1.1		3.5	+1.8
50	4.2	+1.1		3.6	+1.7
	4.3	+1.0	50	3.6	+1.7
	4.3	+1.0		3.8	+1.5
	4.3	+1.0		3.9	+1.4

N 123+00 CONTD SOUND WEST

DIST	SOUND	DIST	SOUND	P
3+80	7.0 +1.3	13.3	8.0	
3+72	4.2 +1.1	13.3	8.0	
4+00	4.4 +0.9	13.4	8.1	
	4.1 +1.2	6+00	14.0	8.7
	4.1 +1.2		15.1	9.8
(5.3)	4.1 +1.2		15.2	9.9
	4.2 +1.1	(5.3)	15.3	10.0
50	5.3 0.0		15.3	10.0
	6.2 1.1	50	15.4	10.1
9.25	12.5 7.2		15.4	10.1
	13.7 8.4		15.4	10.1
	13.3 8.0		15.1	9.8
5+00	13.1 7.8		14.7	9.4
	13.1 7.8	7+00	14.7	9.4
	13.2 7.7		15.0	9.7
	13.2 7.7		15.1	9.8
	12.9 7.6		15.2	9.9
50	12.8 7.1		15.4	10.1
	13.1 7.8	50	15.4	10.1

N 123+00 CONTD

DIST	SOUND	DIST	SOUND
15.4	10.2	50	16.2 11.0
9.25	15.5 10.3	9.30	16.1 10.9
	15.5 10.3		15.6 10.4
	15.4 10.2		15.6 10.4
8+00	15.2 10.0		15.6 10.4
	15.5 10.3	10+00	15.4 10.2
	15.4 10.2		15.1 9.9
(5.2)	15.4 10.2	(5.2)	15.2 10.0
	15.3 10.1		15.1 9.9
50	15.3 10.1		15.1 9.9
	15.3 10.1	50	15.0 9.8
	15.5 10.3		12.5 7.3
	15.5 10.3		3.0 +0.2
	15.5 10.3		4.6 +0.6
9+00	15.6 10.4		4.6 +0.6
	16.0 10.8	11+00	4.5 +0.7
	16.0 10.8		
	16.5 11.2		
	16.3 11.1		

N122+00 W/13000 SOUND WEST

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N122+00

Dist	Sound	Dist	Sound	Dist	Sound	Dist	Sound	PX
0700	3.3 +2.7		3.6 +1.4		4.4 +0.6		13.5	8.5
	3.1 +1.9	2+00	3.6 +1.4		4.5 +0.5		13.5	8.5
9:39	3.3 +1.7		3.6 +1.4	4+00	5.1 0.1		14.5	9.5
	3.1 +1.9		3.6 +1.4		5.2 0.2	6+00	14.5	9.5
	3.4 +1.6		3.7 +1.3		8.0 3.0		14.4	9.4
50	3.4 +1.6		3.8 +1.2	9:33	10.5 5.5	9.45	14.1	9.1
	3.4 +1.6	50	3.7 +1.3		11.9 6.9	(5.0)	14.0	9.0
(5.0)	3.3 +1.7		3.7 +1.3	50	12.5 7.5		13.8	8.8
	3.2 +1.8	(5.0)	4.1 +0.9	(5.0)	13.0 8.0	50	12.9	7.9
	3.3 +1.7		4.8 +0.2		13.0 8.0		15.0	10.0
1+00	3.6 +1.4		4.6 +0.4		13.0 8.0		14.3	9.3
	3.6 +1.4	3+00	4.8 +0.2		13.0 8.0		14.5	9.5
	3.7 +1.3		5.4 0.1	5+00	13.0 8.0		14.8	9.8
	3.5 +1.5		5.0 0.0		13.2 8.2	7+00	15.0	10.0
	3.4 +1.6	9:42	4.5 +0.5		13.5 8.5		15.0	10.0
50	3.4 +1.6		4.2 +0.8		13.5 8.5		15.0	10.0
	3.5 +1.5	50	4.2 +0.8		13.3 8.3		15.1	10.1
	3.5 +1.5		4.1 +0.9	50	13.5 8.5		15.2	10.2
	3.5 +1.5		4.1 +0.9		13.5 8.5	50	15.2	10.2

N122+00 CONTD SOUND WEST

N121+00 W13000 SOUND WEST

Dist	Sound		Dist	Sound		Dist	Sound		Dist	Sound	
7+60	15.2	10.2	50	15.9	11.0	0+00	2.3	+2.6	10+00	8.5 7.8	4.5
	15.2	10.2		16.0	11.1	950	2.4	+2.5	2+00	12.3	7.8
	15.2	10.2		15.7	10.8		2.3	+2.6		14.5	10.0
	15.0	10.0		15.5	10.6		2.4	+2.5		14.7 15.0	10.2
8+00	15.0	10.0		15.3	10.4	(4.9)	2.4	+2.5	10+11	15.0	10.5
9+7	15.0	10.0	10+00	15.1	10.2	50	2.4	+2.5		15.0	10.5
	14.8	9.8		14.8	9.9		2.8	+2.1	50	15.2	10.7
(5.0)	14.5	9.5	(4.9)	14.6	9.7		3.4	+1.5	(4.5)	15.2	10.7
	14.4	9.4		14.2	9.3		3.5	+1.4		15.2	10.7
50	14.3	9.3		14.1	9.2		4.5	+0.4		15.2	10.7
	15.0	10.0	50	14.1	9.2	10.00 1+00	3.0 5.0	+1.5	10+00	15.0	10.5
	15.7	10.7		14.2	9.3		3.3 3.0	+1.2	3+00	14.7 15.0	10.2
	16.0	11.0		14.2	9.3		3.1	+1.4		14.7	10.2
	16.1	11.1		13.6	8.7	(4.5)	3.0	+1.5		14.6	10.1
9+00	15.7	10.7		8.4	8.5		2.5	+2.0		14.6	10.1
	15.5	10.5	11+00	4.3	+0.6	50	2.4	+2.1		14.6	10.1
	15.5	10.5		4.3	+0.6		2.3	+2.2	50	14.6	10.1
9+8	15.6	10.6		4.3	+0.6		2.3	+2.2		14.7	10.1
	15.6	10.6					2.5	+2.0		14.6	10.1

N121+00 CONTD SOUND WEST

DIST	SOUND	DIST	SOUND	P
3+80	14.3 9.8	13.1	8.6	
	13.9 9.4	13.1	8.6	
4+00	13.9 9.4	13.1	8.6	
10:13	12.4 7.9	6+00	12.4 7.9	
	12.6 8.1	13.1	8.6	
	13.0 8.5	10:15	13.1 8.6	
	13.3 8.8	13.3	8.8	
50	13.2 8.8	(4.5)	13.8 9.4	(4.4)
	13.2 8.8	50	14.0 9.5	
(4.5)	13.2 8.8	14.1	9.6	50
	13.3 8.8	14.1	9.6	10:22
	13.5 9.0	14.2	10.9	
5+00	13.6 9.1	14.1	10.4	
	13.5 9.0	7+00	14.1 10.4	
	13.5 9.0	14.2	10.3	9+00
	12.7 8.2	14.2	10.3	
	12.8 8.3	14.2	10.3	
50	13.4 8.9	14.2	10.3	
	13.3 8.8	50	14.2 10.3	

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N121+00 CONTD SOUND WEST (39)

DIST	SOUND	DIST	SOUND
15.2	10.0	5.0	15.3 10.9
14.2	9.8		15.1 10.7
14.1	9.7	10:13	14.7 10.3
14.1	9.7		14.4 10.0
14.2	9.8	8+00	14.0 9.6
14.4	10.0	10+00	13.4 9.0
14.6	10.2		13.5 9.1
(4.4)	15.0 10.6	(4.4)	14.0 9.6
15.1	10.7		14.1 9.7
50	15.2 10.9		14.1 9.7
10:22	15.2 10.8	50	14.1 9.7
15.3	10.9		14.1 9.7
15.3	10.9		14.1 9.7
15.4	11.0		14.1 9.7
9+00	15.3 10.9		14.4 10.0
11+00	15.4 11.0		14.5 10.1
	15.4 11.0		14.5 10.1
	15.4 11.0		7.5 3.1
	15.4 11.0		4.4 0.0
	15.4 11.0		4.0 +0.4

N120+00 W12950 SOUND WEST

DIST	SOUND		DIST	SOUND	Px
0+00	2.0	+2.2		14.4	10.2
10:28	1.8	+2.4	2+00	14.4	10.2
	1.7	+2.5		14.3	10.1
	3.1	+1.1		14.2	10.0
	8.0	3.8		14.0	9.8
50	12.8	8.6		13.7	9.5
	14.1	9.9	50	14.1	9.9
(4.2)	14.5	10.1	(4.2)	14.5	10.3
	14.4	10.2		14.6	10.4
	14.5	10.3		14.5	10.3
1+00	14.7	10.5		14.1	9.9
	14.7	10.5	3+00	14.1	9.9
	14.8	10.6		14.1	9.9
	14.8	10.6	10:32	14.1	9.9
	15.0	10.8		14.0	8.8
50	14.8	10.6		14.0	8.8
10:30	14.5	10.3	50	14.0	8.8
	14.5	10.3		14.0	8.8
	14.5	10.3		14.0	8.8

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N120+00 CONTD

(39)

DIST	SOUND		DIST	SOUND	
	13.8	9.7		12.7	8.6
	13.5	9.4		13.0	8.9
4+00	13.5	9.4		12.8	8.7
	13.5	9.4	6+00	12.6	8.5
	13.4	9.3		13.1	9.0
	13.5	9.4		13.8	9.7
	13.7	9.6		13.5	9.4
50	13.9	9.8		13.4	9.3
	13.5	9.4	50	13.6	9.5
	12.6	9.5	(4.1)	13.8	9.7
	12.5	9.4		14.0	9.9
	12.6	9.5		14.2	10.1
5+00	12.8	9.7	10:37	14.4	10.3
	12.8	9.7	7+00	14.0	9.9
	13.0	8.9		13.8	9.7
	13.2	9.1		13.8	9.7
	13.2	9.1		14.0	9.9
50	13.2	9.1		14.1	10.0
	13.2	9.1	50	14.1	10.0

N120+00 CONT'D SOUND WEST

N119+00 W/12950 SOUND WEST

DIST SOUND			DIST SOUND			DIST SOUND			PX		
7+60	14.0	10.0	50	14.5	10.5	0+00	1.2	+2.7	14.1	10.3	
10:38	13.8	9.8		14.5	10.5	10:52	1.2	+2.7	2+00	14.1	10.3
	13.7	9.7		14.4	10.4		1.2	+2.7		14.1	10.3
	13.4	9.4		14.1	10.1		3.5	+0.4		14.0	10.2
8+00	13.1	9.1		14.0	10.0		9.0	5.1	10:55	14.0	10.2
	13.1	9.1	10+00	14.0	10.0	50	11.3	7.4		13.9	10.1
(A.D)	13.2	9.2		14.0	10.0		12.3	8.4	50	14.2	10.4
	14.0	10.0	(A.O)	13.2	9.2	(3.9)	13.0	9.1	(3.8)	14.4	10.6
	14.1	10.1		13.1	9.1		13.1	9.2		14.5	10.7
50	14.3	10.3		13.1	9.1		13.1	9.2		14.5	10.7
	14.4	10.4	50	13.2	9.2	1+00	13.3	9.4		14.4	10.6
	14.5	10.5		13.4	9.4		13.5	9.6	3+00	14.3	10.5
10:40	14.6	10.6		13.3	9.3		13.8	9.9		14.0	10.2
	14.6	10.6		13.4	9.4		13.8	9.9		13.8	10.0
9+00	14.7	10.7		13.7	9.7		13.8	9.9		13.8	10.0
	14.7	10.7	11+00	13.8	9.8	50	14.1	10.2		13.8	10.0
	14.6	10.6		13.8	9.8		14.1	10.2	50	14.0	10.2
	14.6	10.6	10:45	13.4	9.4		14.1	10.2		14.0	10.2
	14.5	10.5	50	13.4	9.4					14.0	10.2
				13.4	9.4	1+50	14.1	10.2			
				13.4	9.4	2+50	13.2	9.3			
				13.4	9.4	3+00	6.4	9.5			
				13.8	9.8		4.1	0.2			

N119+00 CONTA SOUND WEST

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N119+00 CONTA

DIST		SOUND		DIST		SOUND		DIST		SOUND	
3+80	14.0	10.3	12.0	8.4	11:02	13.0	9.5	50	13.2	9.7	
10:57	14.0	10.3	12.7	9.1		13.1	9.6	11:05	13.1	9.6	
4+00	14.0	10.3	12.8	9.2		13.4	9.9		13.2	9.7	
	14.1	10.4	6+00 13.0	9.4		13.6	10.1		13.6	10.1	
	14.1	10.4	11:00 13.1	9.5	8+00	13.7	10.2		13.8	10.3	
(3.7)	14.1	10.4	13.4	9.8		13.7	10.2	10+00	14.0	10.5	
	14.1	10.4	(3.6) 13.4	9.8		13.9	10.4		14.0	10.5	
50	14.1	10.4	13.7	10.1	(3.5)	14.0	10.5		14.2	10.7	
	13.2	9.5	50 13.8	10.2		14.1	10.6	(3.5)	14.1	10.6	
	12.3	8.6	13.8	10.2	50	14.1	10.6		14.1	10.6	
10:58	12.3	8.7	13.8	10.2		14.1	10.6	50	14.2	10.7	
	12.5	8.9	14.0	10.2		14.1	10.6		14.1	10.6	
5+00	12.6	8.8	14.1	10.2	11:04	14.1	10.6		14.1	10.6	
	12.5	8.9	7+00 14.0	10.2		13.9	10.4	11:07	13.7	10.2	
(3.6)	12.5	8.9	13.7	10.2	9+00	13.6	10.1		13.7	10.2	
	12.5	8.9	13.3	9.9		13.6	10.1	11+00	13.7	10.2	
	12.4	8.8	13.3	9.9		13.6	10.1		13.6	10.1	
50	12.0	8.4	13.2	9.9		13.5	10.0		13.3	9.8	
	11.7	8.1	50 13.0	9.9		13.4	9.9		13.3	9.8	

N119+00 CONTD SOUND WEST

Dist	Sound	
11+40	13.3	9.9
50	13.2	9.8
	13.3	9.8
(3.4)	13.0	9.6
11:29	12.9	9.5
	12.7	9.3
12+00	12.6	9.2
	12.7	9.3
	10.0	6.6
	3.8	0.4
11:10	3.8	0.4
50	3.3	+0.1

3-24-52 (42)
N118+00 W12950 SOUND WEST

Dist	Sound		Dist	Sound	PX
0+00	3.0	+0.3		13.2	9.9
11:20	2.4	+0.9	2+00	13.3	10.0
	2.0	+1.3		13.2	9.9
	1.7	+1.6		13.1	9.8
	4.3	1.0		13.1	9.8
50	10.0	6.7		13.4	10.1
	12.1	8.8	50	13.5	10.2
	11.8	8.5		13.5	10.2
(3.3)	12.0	8.7	(3.3)	13.4	10.1
	12.1	8.8		13.4	10.1
1+00	12.1	8.8		13.3	10.0
	12.5	9.2	3+00	13.2	9.9
	12.7	9.4		13.2	9.9
	13.0	9.7		13.1	9.8
	13.1	9.8		13.1	9.8
50	13.1	9.8		13.1	9.8
11:23	12.8	9.5	50	13.3	10.0
	13.2	9.9	11:26	13.4	10.1
	13.2	9.9		13.5	10.2

N118+00 CONTD SOUND WEST

DIST	SOUND	DIST	SOUND
3+80	13.4 10.3	12.6 9.5	
	13.3 10.2	12.8 9.7	
4+00	13.3 10.2	13.0 9.9	
	13.5 10.4	6+00 13.0 9.9	
	12.7 9.6	13.2 10.1	
(3.1)	11.8 8.7	13.2 10.1	
	11.8 8.7	(3.1) 13.2 10.1	
50	12.0 8.9	13.4 10.2	
	11.7 8.6	50 13.4 10.2	
	11.7 8.6	13.2 10.1	
	11.7 8.6	13.1 10.1	
	11.7 8.6	10.30 13.0 9.8	
5+00	11.6 8.5	12.7 9.8	
	11.6 8.5	7+00 12.2 9.8	
11.28	11.0 7.9	12.3 9.8	
	10.7 7.6	12.3 9.8	
	12.4 9.3	12.4 9.8	
50	12.4 9.3	13.1 10.1	
	12.4 9.3	50 13.4 10.1	

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(43)

N118+00 CONTD

DIST	SOUND	DIST	SOUND
13.3 10.2	50 11.7 8.7		
11.31 13.4 10.3	12.0 9.0		
13.5 10.4	12.3 9.3		
13.5 10.4	12.3 9.3		
8+00 13.4 10.3	12.5 9.5		
13.5 10.4	10+00 13.0 10.0		
13.5 10.4	13.1 10.1		
(3.1) 13.4 10.3	(3.0) 13.1 10.1		
13.4 10.3	12.9 9.9		
50 13.4 10.3	12.9 9.9		
13.4 10.3	50 12.7 9.7		
13.4 10.3	12.7 9.7		
13.2 10.1	12.8 9.8		
11.33 13.1 10.0	13.0 10.0		
9+00 12.9 9.8	12.8 9.8		
12.6 9.5	11+00 12.8 9.8		
12.5 9.4	12.7 9.7		
12.4 9.3	12.5 9.5		
12.0 8.9	12.4 9.4		

N118+00 CONTD SOUND WEST

DIST	SOUND	DIST	SOUND
11+40	12.4	9.4	
50	12.4	9.4	
11:36	12.4	9.4	
	12.4	9.4	
(3.0)	12.4	9.4	
	12.2	9.2	
12+00	8.0	5.0	
	3.7	0.7	
	2.8	+0.2	
11:37	3.0	0.0	

N117+00 W/2950 SOUND WEST. (44)

DIST	SOUND	DIST	SOUND	PX
0+00	1.3 + 1.5	11:47	12.1	9.3
	1.5 + 1.3	2+00	12.1	9.3
	2.3 + 0.5		12.1	9.3
11:45	2.8 0		12.6	9.8
	7.2 4.4		13.1	10.3
50	11.3 8.5		13.4	10.6
	11.3 8.5	50	13.1	10.3
(2.8)	11.3 8.5		13.1	10.3
	11.4 8.6	(2.8)	13.1	10.3
	11.5 8.7		13.0	10.2
1+00	11.7 8.9		12.8	10.0
	11.8 9.0	3+00	12.7	9.9
	12.0 9.2		12.5	9.7
	12.0 9.2		12.3	9.5
	12.2 9.4		11.0	8.2
50	12.2 9.4		11.2	8.4
	12.5 9.7	50	11.0	8.2
	12.5 9.7	11:49	12.0	9.2
	12.2 9.4		10.5	7.7

N117+00 CONTO SOUND WEST

DIST	SOUND	DIST	SOUND
3+80	11.0	8.5	13.1
11:50	11.8	9.3	13.1
4+00	11.5	9.0	13.1
	11.5	9.0	6+00 13.1
	11.5	9.0	13.1
	11.5	9.0	13.1
(2.5)	11.4	8.9	12.8
50	11.4	8.9	(2.5) 12.6
	11.6	9.1	50 12.5
	11.4	8.9	12.2
	10.7	8.2	12.1
	12.0	9.5	12.0
5+00	12.4	9.9	12.2
	12.4	9.9	7+00 12.8
	12.4	9.9	13.0
	12.4	9.9	13.1
11:52	12.8	10.3	11:54 13.3
50	12.8	10.3	13.4
	13.0	10.5	50 13.4

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(45)

N117+00 CONTO SOUND WEST

DIST	SOUND	DIST	SOUND
	13.4	10.9	50 12.3
	13.4	10.9	12.3
	13.2	10.7	12.4
	13.2	10.7	12.4
8+00	13.1	10.6	12.5
	13.1	10.6	10+00 12.6
11:55	13.1	10.6	12.6
	13.0	10.5	11:57 12.6
(2.5)	12.7	10.2	12.5
50	12.6	10.1	(2.5) 12.5
	12.6	10.1	50 12.4
	12.5	10.0	12.3
	12.3	9.8	12.1
	12.0	9.5	12.1
	12.0	9.5	12.1
	11.6	9.1	11+00 11.9
	12.0	9.5	11.6
	12.1	9.6	11.4
	12.1	9.6	11.4

3-29-52
N117+00 CONTD SOUND WEST

Dist	Sound	
11+40	11.4	8.9
50	10.3	7.8
11:58	3.7	1.2
(2.5)	2.4	+0.1
	2.4	+0.1
	2.4	+0.1
12+00	2.5	0

3-25-52 (46)
N105+00 W12400 SOUND WEST

Dist	Sound		Dist	Sound	PX
0+00	2.8	+2.4		16.1	10.9
8:43	2.9	+2.3	2+00	16.1	10.9
	2.8	+2.4		16.1	10.9
	2.9	+2.3		16.2	11.0
	2.9	+2.3		16.2	11.0
50	4.7	+0.5		16.3	11.1
	9.0	3.8	50	16.1	10.9
(52)	12.5	7.3		16.3	11.1
	13.8	8.6	(52)	16.5	11.3
8:44	14.8	9.6	8:48	16.3	11.1
1+00	15.0	9.8		16.1	10.9
	15.1	9.9	3+00	16.3	11.1
	15.2	10.0		16.5	11.3
	15.2	10.0		15.0	9.8
	15.3	10.1		13.1	7.9
50	15.5	10.3		13.1	7.9
	15.8	10.6	50	13.2	8.0
	15.9	10.7		13.4	8.2
	16.1	10.9		13.8	8.6
				14.1	8.9
				13.8	8.6
			4+00	13.3	8.1

3-25-52

N107+00 W12400 SOUND WEST

N107+00 CONTD

(47)

Dist	Sound		Dist	Sound	Px	Dist	Sound
0+00	2.0	+3.3		15.4	10.1	16.8	11.5
8:56	2.0	+3.3	2+00	15.4	10.1	16.8	11.5
	2.1	+3.2	9:00	15.6	10.3	17.0	11.7
	2.3	+3.0		16.0	10.7	15.1	9.8
	2.3	+3.0		16.0	10.7	14.4	9.1
50	2.4	+2.9		16.3	11.0	14.2	8.9
	2.5	+2.8	50	16.4	11.1	14.2	8.9
	2.5	+2.8		16.6	11.3	50 14.0	8.7
(53)	2.6	+2.7		16.6	11.3	(53) 14.0	8.7
	2.5	+2.8		16.8	11.5	13.8	8.5
1+00	2.6	+2.7		16.6	11.3	13.7	8.4
	2.6	+2.7	3+00	16.6	11.3	13.8	8.5
8:59	2.6	+2.7	9:03	16.6	11.3	13.8	8.5
	2.6	+2.7		16.7	11.4		
	7.0	1.7		17.0	11.7		
50	11.5	6.2		17.1	11.8		
	13.3	8.0	50	17.1	11.8		
	14.4	9.1		17.0	11.7		
	15.2	9.9		16.8	11.5		

N108+00 W12400 SOUND WEST

Dist	Sound		Dist	Sound	Px
1+50	2.2	+3.1	9.20	15.5	10.2
	2.3	+3.0	50	15.5	10.2
9.16	2.6	+2.7		15.8	10.5
	4.4	+0.9		15.8	10.5
	7.4	2.1		16.0	10.7
2+00	12.3	7.0		16.1	10.1
	13.3	8.0	4+00	16.1	10.1
	15.0	9.7		15.7	10.4
(5.3)	14.8	9.5		15.1	9.2
9.18	15.0	9.7		15.2	9.2
50	14.9	9.6		15.3	10.2
	14.8	9.5	50	14.2	9.2
	14.8	9.5	9:23	14.4	9.2
	15.0	9.7		14.5	9.2
	15.1	9.8		14.5	9.2
3+00	15.2	9.9		14.5	9.2
	15.2	9.9	5+00	14.5	9.2
	15.4	10.1			
	15.3	10.0			

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550 (48)

N109+00 W12400 SOUND WEST

Dist	Sound		Dist	Sound	Px
2+00	2.0	+3.3	9:35	15.4	10.1
	2.1	+3.2	4+00	15.4	10.1
	3.9	+1.4		15.6	10.3
	6.2	0.9		15.7	10.4
	11.1	5.8		15.8	10.5
50	13.3	8.0		15.8	10.5
	14.2	8.9	50	15.8	10.5
	14.5	9.2		15.6	10.3
(5.3)	15.0	9.7	(5.3)	15.4	10.1
	15.1	9.8		15.4	10.1
5+00	14.9	9.6	9:37	14.7	10.4
	15.0	9.7	5+00	13.5	8.2
	15.2	9.9		13.6	8.3
	15.1	9.8		13.7	8.4
	15.2	9.9		13.8	8.5
50	15.4	10.1		13.8	8.5
	15.6	10.3	50	13.7	8.4
	15.4	10.1			
	15.4	10.1			

3-25-52

N10+00 W12400 SOUND WEST

Dist	Sound		Dist	Sound	PX
2+50	2.0	+3.1		15.2	10.1
	2.1	+3.0	50	15.1	10.0
9:50	4.8	+0.3		15.1	10.0
	8.7	3.6		15.1	10.0
	12.6	7.5		14.9	9.8
3+00	13.5	8.4	9:55	14.8	9.7
	14.0	8.9	5+00	14.6	9.5
	14.5	9.4		14.6	9.5
(5.1)	14.8	9.7	(5.1)	14.7	9.6
9:52	15.1	10.0		14.7	9.6
50	15.1	10.0		13.2	8.1
	15.1	10.0	50	12.7	7.6
	15.2	10.1		13.0	7.9
	15.2	10.1		13.2	8.1
	15.3	10.2		13.2	8.1
4+00	15.3	10.2	9:57	13.1	8.0
	15.3	10.2	6+00	13.5	8.4
	15.2	10.1		13.8	8.7
	15.2	10.1		14.0	8.9
	15.2	10.1		14.1	9.0
				14.1	9.0
			50	13.3	8.6

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N106+00 W12400 SOUND WEST

(49)

Dist	Sound		Dist	Sound	PX
	2.0	+2.9		15.0	10.1
	2.0	+2.9	2+00	15.0	10.1
	1.9	+3.0		15.2	10.3
	2.0	+2.9		15.4	10.5
	2.0	+2.9		15.5	10.6
	2.0	+2.9		15.5	10.6
	2.1	+2.8	50	15.6	10.7
	2.1	+2.8		15.6	10.7
	2.3	+2.6	(4.9)	15.5	10.6
	3.0	+1.9		15.7	10.8
	6.3	-1.4		15.8	10.9
	11.4	6.5	3+00	15.8	10.9
	13.2	8.3		15.7	10.8
	14.0	9.1	10:15	15.6	10.7
	14.5	9.6		15.5	10.6
	14.8	9.9	50	15.4	10.5
	14.8	9.9	50	15.3	10.4
	14.6	9.7		14.6	9.7
	14.8	9.9		12.6	7.7

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N106+00 CONTO SOUND WEST

Dist	Sound	
3+80	12.5	7.6
10:16	12.3	7.4
4+00	12.0	7.1
	12.0	7.1
	12.3	7.4
(4.9)	13.3	8.4
	13.0	8.1
50	12.7	7.8

3-25-52

N104+00 W12400 SOUND WEST

(50)

Dist	Sound		Dist	Sound	PX
0+00	4.2	+0.5		15.0	10.4
	4.5	+0.2	3+00	15.1	10.5
10:27	13.0	-8.3	10:32	15.5	10.9
	14.6	9.9		15.8	10.2
	15.1	10.4		15.8	10.2
50	15.1	10.4		15.8	10.2
	15.1	10.4	50	16.0	11.4
(4.7)	15.2	10.5	(4.6)	16.0	11.4
	15.3	10.6		15.2	10.6
	15.3	10.6		12.5	7.9
1400	15.7	11.0		12.5	7.9
10:30	15.7	11.0	4+00	1	
	15.7	11.0			
	15.8	11.1			
	15.7	11.0			
50	15.6	10.9			
	15.4	10.7			
	15.2	10.5			
	15.0	10.3			

3-26-52
N103+00 W12100 SOUND WEST

Dist Sound Dist Sound

0+00 = 73' East of B/L. FX

Dist Sound Dist Sound

2+60 1.5 +2.3 14.2 104 ⁸ 9.32

8:06 1.5 +2.3 (3.9) 14.3 105 ~~9.32~~

(3.8) 1.6 +2.2 50 14.4 106 (9.2)

1.6 +2.2 14.4 106

3+00 1.8 +2.0 14.5 107 3+00

2.1 +1.7 14.6 108

2.2 +1.6 14.8 110

2.4 +1.4 5+00 15.0 112

7.5 3.7 14.8 110

50 12.4 8.6 8:10 14.5 107 50

14.0 10.2 14.5 107

14.0 10.2 14.7 107

14.0 10.2 50 14.9 111

14.0 10.2 15.1 113

1+00 14.0 10.2 15.3 115 1+00

14.0 10.2 15.3 115

14.0 10.2 15.4 116

14.0 10.2 6+00 14.4 106

11.8 10.0

(51)
N102+00 W12100 SOUND WEST

Dist Sound Dist Sound FX

0+00 = 68' East of B/L

2+50 2.0 +2.2 ~~(7.3)~~ 15.3 11.1

2.1 +2.1 (4.3) 15.3 11.1

2.1 +2.1 50 15.3 11.1

2.2 +2.0 ⁸ 9.36 15.1 10.9

5.1 0.9 15.1 10.9

3+00 9.0 4.8 15.4 11.2

12.6 8.4 15.4 11.2

13.4 9.2 5+00 15.4 11.2

13.1 8.9 15.5 11.3

13.7 9.5 15.5 11.3

50 13.8 9.6 15.3 11.1

14.0 9.8 15.2 11.0

14.3 10.1 50 15.4 11.2

14.5 10.3 13.4 9.2

14.8 10.6 13.4 9.2

1+00 15.0 10.8 ⁸ 9.40 13.1 8.9

8:35 15.1 10.9 13.1 8.9

15.2 11.0 6+00 13.1 8.9

N101+00 W/2/00 Sound WEST

Dist	Sound	Dist	Sound
0+00	= 70' East of B/L.		
1+50	9.1	4.4	(4.8) 14.8
9:03	9.1	4.4	14.8
(4.7)	8.8	4.1	50 14.9
	8.0	3.3	15.1
	7.4	2.7	15.4
2+00	6.8	2.1	9:07 15.4
	6.2	1.5	15.4
	5.2	0.5	4+00 15.5
	4.0	+0.7	15.5
	3.1	+1.6	15.8
50	8.0	3.3	16.0
9:05	12.1	7.4	16.2
	13.8	9.1	50 16.2
	14.4	9.7	16.1
	14.4	9.7	16.1
3+00	14.2	9.5	9:10 16.1
	14.2	9.5	15.8
	14.5	9.8	5+00 16.1

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(52)

N101+00 CONTD

Dist	Sound
(4.8)	16.0 11.2
	14.8 10.0
	13.2 8.4
	13.4 8.6
50	13.6 8.8
	13.8 9.0
	13.8 9.0
9:12	14.0 9.2
	13.6 8.8
6+00	13.4 8.6

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N100+00 W/12100 SOUND WEST

Dist	Sound		Dist	Sound	FX
0+00	= 68'	East of B/L.			
1+50			(5.1)	16.0	10.9
9:29	17.0	6.0		16.0	10.9
(5.0)	10.5	5.5	50	16.0	10.9
	10.1	5.1		15.8	10.7
	9.8	4.8	9:32	16.1	11.0
2+00	8.8	3.8		16.3	11.2
	7.7	2.7		16.3	11.2
	11.9	6.9	4+00	16.4	11.3
	15.0	10.0		16.4	11.3
	15.2	10.2		16.1	11.3
50	15.4	10.4		16.1	11.3
9:30	15.3	10.3		16.0	10.9
	15.3	10.3	50	15.6	10.5
	15.5	10.5		15.6	10.5
	15.5	10.5		15.0	9.9
3+00	16.0	11.0	9:34	13.8	8.7
	16.1	11.1		13.7	8.6
	15.8	10.8	5+00	14.1	9.0

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N100+00 CONT'D

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Dist	Sound	
(5.1)	14.5	9.4
	14.5	9.4
	14.4	9.3
	14.5	9.4
50	14.5	9.4
9:36	14.2	9.1
	13.8	8.7
	13.5	8.4
	13.4	8.3
6+00	13.1	8.0

N 99+00 W 12100 SOUND WEST

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N 99+00 CONTD

(54)

0+00 = 122' East of B/L. P X

DIST SOUND

DIST	SOUND	DIST	SOUND	DIST	SOUND
				(5.1)	14.2 9.1
1+22	14.6 9.5	3+00	16.1 11.0		14.8 9.7
9:57	14.6 9.5	9:58	16.0 10.9	5+00	15.1 10.0
(5.1)	15.0 9.9	(5.1)	16.0 10.9		15.0 9.9
50	15.0 9.9		15.8 10.7		14.8 9.7
	14.7 9.6		15.9 10.8		14.7 9.6
	14.5 9.4	50	15.9 10.8	10:00	14.3 9.2
	14.0 8.9		16.0 10.9	50	14.2 9.1
	13.5 8.4		16.0 10.9		13.8 8.7
2+00	13.0 7.9		15.8 10.7		14.1 9.0
	12.3 7.2		15.8 10.7		14.1 9.0
	12.0 6.9	4+00	15.8 10.7		14.1 9.0
	12.0 6.9		15.8 10.7	6+00	13.8 8.7
	15.0 9.9		15.8 10.7		13.9 8.8
50	15.9 10.8		15.5 10.4		13.6 8.5
	16.0 10.9		15.1 10.0		13.2 8.1
	16.0 10.9	50	14.9 9.8	10:02	13.5 8.4
	16.1 11.0		14.7 9.6	50	13.4 8.3
	16.1 11.0		14.8 9.7		

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N98+00 W 2100 SOUND WEST

0+00 = 192' East of B/L. PA

Dist	Sound	Dist	Sound	Dist	Sound
		5.0	16.3	11.3	
1+00	14.1	9.0	16.2	11.2	
2+00	15.1	10.0	16.2	11.2	
10:22	14.2	9.1	10:25 16.2	11.2	
(5.1)	14.3	9.2	4+00 16.0	11.0	
	14.4	9.3	16.0	11.0	
	14.6	9.5	15.8	10.8	
50	15.0	9.9	15.8	10.8	
	16.0	10.9	15.8	10.8	
	17.1	12.0	50 15.5	10.5	
	16.8	11.7	15.4	10.4	
	16.7	11.6	15.1	10.1	
3+00	16.6	11.5	15.1	10.1	
	16.5	11.4	15.1	10.1	
	16.1	11.0	5+00 13.8	8.8	
	16.1	11.0	13.8	8.8	
	16.1	11.0	14.4	9.4	
50	16.2	11.1	14.4	9.4	
	16.2	11.1	14.1	9.1	

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N98+00 CONTD

(53)

Dist	Sound	Dist	Sound
50	13.8	8.8	
10:28	14.0	9.0	
(5.0)	14.0	9.0	
	13.8	8.8	
	14.4	9.0	
6+00	14.0	9.0	
	14.0	9.0	
	13.8	8.8	
	14.4	9.4	
	14.8	9.8	
50	14.8	9.8	
	14.6	9.6	
	14.5	9.5	
	14.4	9.4	
	14.5	9.5	
7+00	14.2	9.2	

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N97+00 W12100 SOUND WEST

0+00 = 114' East of B/L. PX

DIST	SOUND	DIST	SOUND	DIST	SOUND
1+14	11.5	6.9	(4.5)	15.5	11.0
20	12.0	74	3+00	15.5	11.0
11.05	13.0	8.4		15.4	10.9
(4.6)	14.3	9.7	11.08	15.4	10.9
50	15.1	10.5		15.3	10.8
	15.5	10.9		15.4	10.9
	15.5	10.9	50	15.6	11.1
	15.5	10.9		15.5	11.0
	15.4	10.8		15.5	11.0
2+00	15.3	10.7		14.9	10.9
	15.3	10.7		13.2	8.7
	15.5	10.9	4+00	13.3	8.8
	18.1	13.5		13.3	8.8
	17.2	12.6		13.4	8.9
50	16.7	12.1		13.1	8.8
	16.4	11.8		13.0	8.5
	16.1	11.5	50	13.0	8.5
	15.5	10.9		13.3	8.8

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N97+00 CONTD WEST

(56)

DIST SOUND

DIST	SOUND	DIST	SOUND
(4.5)	13.5	9.0	
11.2	13.4	8.9	
	13.3	8.8	
5+00	13.2	8.7	
	13.3	8.8	
	13.3	8.8	
	13.1	8.6	
	13.1	8.6	
50	14.4	9.9	
	14.4	9.9	
	15.0	10.5	
	14.6	10.1	
11.15	14.1	9.6	
6+00	14.1	9.6	

N. 95+00
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N. 95+00		W. 13,243		Px	Dist.	Sound	Dist	Sound	
0+00	= W 13,243	Sound East			+20	9.0	4.4	5+00 13.5	8.9
Dist	Sound	Dist	Sound		10:27	8.5	3.9	10:30 13.4	8.8
0+00	3.8 +0.7	+60	5.5	0.9	(4.6)	6.8	2.2	(4.6) 13.2	8.6
10:20	3.4 +1.1	10:24	6.0	1.4	+50	5.2	0.6	13.1	8.5
(4.5)	2.7 +1.8	(4.6)	6.0	1.4		4.7	0.1	13.4	8.8
	2.3 +2.2		6.1	1.5		4.5	+0.1	+50 13.4	8.8
	2.2 +2.3	2+00	6.0	1.4		4.3	+0.3	13.4	8.8
+50	2.2 +2.3		5.8	1.2		3.8	+0.8	13.4	8.8
	2.1 +2.4		4.8	0.2	4+00	3.4	+1.2	13.7	9.1
	2.1 +2.4		4.5	+0.1		3.1	+1.5	14.2	9.6
	2.1 +2.4		4.5	+0.1		3.1	+1.5	5+00 14.3	9.7
	2.1 +2.4	+50	4.4	+0.2		3.1	+1.5	14.3	9.7
1+00	2.4 +2.1		4.4	+0.2		2.8	+1.8	14.3	9.7
	2.8 +1.7		4.2	+0.4	+50	2.8	+1.8	14.6	10.0
	3.3 +1.2		4.5	+0.1		3.0	+1.6	14.8	10.2
	3.7 +0.8		5.8	1.2		8.0	3.4	+50 15.0	10.4
	4.5 0	3+00	6.7	2.1		12.5	7.9	15.2	10.6
+50	4.8 0.3	+10	8.2	3.6		13.1	8.5	+70 15.5	10.9

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Dist	Sound		Dist	Sound		Dist	Sound	
+80	15.2	10.6	+60	13.4	8.8	+40	16.8	12.2
10:34	15.1	10.5	(4.6)	13.5	8.9	+50	16.5	11.9
7+00	15.7	11.1		14.2	9.6	10:44	16.1	11.5
(4.6)	13.2	8.6		14.8	10.2	(4.6)	15.0	10.4
	14.0	9.4	9+00	17.0	12.4		14.3	9.7
	14.2	9.6		18.4	13.8		13.1	8.5
	14.3	9.7		19.0	14.4	11+00	10.5	5.9
+50	14.5	9.9		19.4	14.8	+10	6.0	1.4
	15.4	10.8		19.5	14.9	+20	4.1	+0.5
	14.2	9.6	+50	19.8	15.2		3.1	+1.5
	14.3	9.7	10:42	19.8	15.2		2.8	+1.8
	13.8	9.2		19.8	15.2	10:43	2.5	+2.1
8+00	13.6	9.0		19.4	14.8			
	13.8	9.2		19.1	14.5			
	13.6	9.0	10+00	19.0	14.4			
	13.7	9.1		18.5	13.9			
	13.7	9.1		18.2	13.6			
Passed Line								
+50	13.6	9.0	+30	17.4	12.8			

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(59)

Sta. N100+00

0+00 = W13,000		Sound East		Px	Dist	Sound	Dist	Sound
Dist.	Sound	Dist.	Sound					
					+40	14.9	11.0	
0+00	3.4 +0.4	+70	14.5	10.6	+50	14.7	10.8	
11:00	3.4 +0.4	11:03	14.6	10.7	11:06	13.7	10.8	
(3.8)	2.4 +1.4	(3.9)	14.7	10.8	(3.9)	12.5	8.6	
	3.4 +0.4	2+00	14.8	10.9		12.3	8.4	
	5.5	1.7	15.0	11.1				
+50	9.0	5.2	14.8	10.8	4+00			
	12.0	8.2	15.0	11.1				
	13.4	9.6	15.1	11.2				
	14.0	10.2	+50	15.0	11.1			
	14.3	10.5		15.2	11.3			
1+00	14.3	10.5		15.5	11.6			
	14.4	10.6		15.4	11.5			
	14.3	10.5		15.4	11.5			
	14.2	10.4	3+00	15.1	11.2			
	14.4	10.6		15.1	11.2			
+50	14.5	10.7		15.3	11.4			
+60	14.6	10.8	+30	14.5	11.6			

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Sta 99+00 N.

0+00 = W 13,000 Sound East - P₁ Dist Sound

Dist.	Sound		Dist	Sound		Dist	Sound
			+40	14.4	10.4		
0+00	7.0	3.0	+70	14.4	10.4	+50	14.4
11:14	6.7	2.7	11:18	14.8	10.8	11:20	14.5
(4.0)	5.8	1.8	(4.0)	15.0	11.0	(4.0)	14.6
	5.3	1.3	2+00	15.0	11.0		13.2
	4.1	0.1		15.1	11.1		12.5
+50	2.8	+1.2		15.3	11.3	4+00	12.5
	2.0	+2.0		15.4	11.4		12.8
	1.2	+2.8		15.5	11.5		12.8
	1.2	+2.8	+50	15.5	11.5		12.7
	3.8	+0.2		15.5	11.5		
1+00	2.1	5.1		15.6	11.6	+50	
	12.6	8.6		15.6	11.6		
	13.4	9.4		15.6	11.6		
	13.5	9.5	3+00	15.8	11.8		
	14.0	10.0		15.7	11.7		
+50	14.7	10.7		15.0	11.0	5+00	
	14.5	10.5	+30	14.6	10.6		

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Sta 98+00 North

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0+00 = W. 13,000			Sound East PK			Dist	Sound	
Dist	Sound		Dist	Sound				
			+40	14.8	9.4	+40	14.8	10.8
0+00	6.4	2.4	+70	13.4	9.4	+50	14.7	10.7
11:31	7.0	3.0	(4.0)	13.8	9.8	11:34	14.5	10.5
(4.0)	8.0	4.0		13.7	9.7	(4.0)	14.4	10.4
	8.5	4.5	2+00	13.5	9.5		14.5	10.5
	8.0	4.0		13.5	9.5		13.4	9.4
+50	7.2	3.2		14.0	10.0	+400	13.3	9.3
	6.0	2.0		14.4	10.4		13.4	9.4
	4.7	0.7		14.6	10.6		13.5	9.5
	3.8	+0.2	+50	14.7	10.7		13.6	9.6
	3.1	+0.9		14.7	10.7		13.8	9.8
1+00	2.9	+1.1		14.6	10.6	+50	14.0	10.0
	2.5	+1.5		14.8	10.8		13.7	9.7
	2.4	+1.6		14.8	10.8		13.0	9.0
	2.4	+1.6	3+00	14.8	10.8			
	3.0	+1.0		14.7	10.7			
+50	11.3	-8.3		14.8	10.8	5+00		
+60	12.6	-8.6	+30	14.8	10.8			

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(62)

Sta N. 97+00

0+00 = W13,000		Sound East		PX	Dist Sound		Dist Sound			
Dist	Sound	Dist	Sound							
					+40	14.6	10.6	+20	12.8	8.8
0+00	3.4 +0.6	+70	8.0	4.0	+50	14.5	10.5	(4.0)	12.7	8.7
11:45	3.4 +0.6	11:47	10.6	6.6	11:49	14.5	10.5			
(4.0)	3.8 +0.2	(4.0)	13.0	9.0	(4.0)	14.5	10.5			
	5.7 - 1.7	2+00	13.7	9.7		14.4	10.4			
	6.0 - 2.0		13.7	9.7		14.4	10.4			
+50	7.5	3.5	13.7	9.7	4+00	14.4	10.4			
	7.5	3.5	13.8	9.8		14.3	10.3			
	7.2	3.2	14.0	10.0		13.8	9.8			
	6.5	2.5	+50	14.5	10.5		13.3	9.3		
	5.1	1.1		14.6	10.6		14.0	10.0		
1+00	4.7	0.7		14.8	10.8	+50	14.5	10.5		
	4.0	0.0		14.9	10.9		14.0	10.0		
	3.2	+0.8		14.8	10.8		13.5	9.5		
	3.1	+0.9	3+00	14.7	10.7		13.0	9.0		
	3.0	+1.0		14.8	10.8		12.7	8.7		
+50	3.3	+0.7		14.9	10.9	5+00	12.8	8.8		
	6.5	-1.5	+30	14.6	10.6	+10	12.8	8.8		

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(63)

Sta N 96+00

PA

0+00 = W 13,000			Sound East			Dist Sound			Dist Sound		
Dist	Sound		Dist	Sound		Dist	Sound		Dist	Sound	
0+00	3.5	+0.4	+70	2.7	+0.8	+40	13.5	9.6	+20	13.1	9.2
12:02	3.7	+0.2	12:04	2.5	+0.4	150	13.5	9.6	12:08	12.7	8.8
(3.9)	3.5	+0.4	(3.9)	2.5	+0.4	12:06	14.0	10.1	(3.9)	12.5	8.6
	3.7	+0.2	2+00	2.8	+0.1		14.1	10.2		12.5	8.6
	4.5	-0.6		8.7	-4.8		14.0	10.1		12.5	8.6
+50	6.5	-2.6		11.5	7.6	4+00	14.1	10.2		12.4	8.5
	7.4	3.5		12.5	8.6		14.5	10.6		12.4	8.5
	8.0	4.1		12.7	8.8		14.6	10.7	6+00	12.4	8.5
	7.8	3.9	+50	13.0	9.1		14.6	10.7			
	7.0	3.1		13.1	9.2		14.6	10.7			
1+00	5.7	1.8		13.0	9.1	+50	14.6	10.7			
	4.6	0.7		13.0	9.1		13.7	10.8			
	4.4	0.5		13.2	9.3		13.9	10.0			
	3.8	+0.1	3+00	13.4	9.5		13.8	9.9			
	3.2	+0.7		13.3	9.4		14.4	10.5			
+50	3.0	+0.9		13.1	9.2	5+00	13.5	9.6			
+60	2.9	+1.0	+30	13.7	9.8	+10	13.2	9.2			

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Sta N 94+00

PX

(69)

0+00 = 4/13,000

Sound East

Dist Sound

Dist Sound

Dist Sound

Dist Sound

+40 15.1 11.3

+20 14.3 9.5

0+00 3.2 +0.6 +70 2.3 +1.5

+50 14.9 11.1 (3.8) 14.0 9.2

12:19 3.2 +0.6 12:21 2.4 +1.4

12:23 14.8 11.0 14.0 9.2

(3.8) 4.0 -0.2 (3.8) 2.3 +1.5

(3.8) 14.8 11.0 +50 14.0 9.2

5.0 -1.2 2+00 2.7 +1.1

14.7 10.9

5.5 1.7 7.6 -3.8

15.2 11.4

+50 5.7 1.9 9.5 5.7

4+00 16.0 12.2

6.0 2.2 10.4 6.6

16.3 12.5

6.0 2.2 11.4 7.6

16.0 12.2

5.1 1.3 +50 15.0 11.2

15.7 11.9

4.6 0.8 14.7 10.9

15.6 11.8

1+00 3.7 +0.1 13.5 9.7

+50 15.7 11.9

3.4 +0.4 14.7 10.9

15.4 11.6

3.2 +0.6 15.0 11.2

14.4 10.6

3.1 +0.7 3+00 15.0 11.2

14.0 10.2

2.8 +1.0 15.0 11.2

14.4 10.6

+50 2.8 +1.0 15.1 11.3

5+00 14.0 10.2

+60 2.5 +1.3 +30 15.2 11.4

+10 13.5 9.7

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Sta N 93+00

PA

0+00 = W 13,000			Sound East			Dist Sound			Dist Sound		
Dist	Sound		Dist	Sound		Dist	Sound		Dist	Sound	
			+40	14.0	10.2	+20	13.7	9.9			
0+00	4.4	0.6	+70	4.8	-1.0	+50	14.0	10.2			
12:29	4.5	0.7	12:30	7.7	-3.9	12:32	14.4	10.6			
(3.8)	4.8	1.0	(3.8)	9.3	5.5	(3.8)	14.5	10.7			
	4.5	0.7	2+00	10.0	6.2		14.6	10.8			
	4.4	0.6		11.0	7.2		14.7	10.9			
+50	3.8	0.0		12.4	8.6	4+00	14.7	10.9			
	3.3	+0.5		13.0	9.2		14.7	10.9			
	3.0	+0.8		13.3	9.5		15.0	11.2			
	2.8	+1.0	+50	13.7	9.9		14.0	11.2			
	2.8	+1.0		14.3	10.6		12.5	8.7			
1+00	2.6	+1.2		13.6	9.8	+50	13.0	9.2			
	2.5	+1.3		13.1	9.3		13.6	9.8			
	2.5	+1.3		13.1	9.3		13.5	9.7			
	2.4	+1.4	3+00	13.5	9.7		13.8	10.0			
	2.5	+1.3		13.6	9.8		14.0	10.2			
+50	2.6	+1.2		13.6	9.8	5+00	13.5	9.7			
+60	2.5	+1.3	+30	13.7	9.9	+10	13.0	9.2			

Sta N 92+00

3-28-52

PX

(66)

0+00 = W/13,000			Sound East			Dist		Sound		Dist		Sound	
Dist	Sound		Dist	Sound									
						+40	11.1	7.5	+20	15.5	11.9		
0+00	3.0	+0.7	+70	2.0	+1.7	+50	12.4	8.8	(3.6)	15.7	12.1		
12:40	3.1	+0.6	12:42	1.9	+1.8	12:45	12.7	9.1		16.3	12.7		
(3.7)	3.4	+0.3	(3.7)	1.8	+1.9	(3.6)	12.0	8.4	+50	17.0	13.4		
	3.5	+0.2	2+00	2.0	+1.7		11.3	7.7					
	2.8	+0.9		2.0	+1.7		12.7	9.1					
+50	2.6	+1.1		2.0	+1.7	+100	12.7	9.1					
	2.5	+1.2		2.0	+1.7		12.7	9.1					
	2.6	+1.1		2.2	+1.5		12.9	9.3					
	2.5	+1.2	+50	2.1	+1.6		13.5	9.9					
	2.4	+1.3		2.2	+1.5		14.0	10.4					
1+00	2.4	+1.3		2.8	+0.9	+50	14.5	10.9					
	2.3	+1.4		4.7	-1.0		14.5	10.9					
	2.1	+1.6		7.5	-3.8		14.3	10.7					
	2.0	+1.7	3+00	9.0	5.3		14.1	10.5					
	2.0	+1.7		9.5	5.8		14.7	11.1					
+50	2.0	+1.7		10.1	6.4	5+00	15.0	11.4					
+60	2.0	+1.7	+30	10.4	6.7	+10	15.5	11.9					

3-28-52

(67)

Sta N 91+00

X

0+00 = W 13,000			Sound East			Dist Sound			Dist Sound		
Dist	Sound		Dist	Sound		Dist	Sound		Dist	Sound	
			+70	4.0	0.5	+40	12.0	8.5	+20		
0+00	3.5	0.0	+70	4.0	0.5	+50	12.8	9.3			
12:53	3.7	-0.2	12:55	4.0	0.5	12:57	13.0	9.5			
(3.5)	3.6	-0.1	(3.5)	3.8	0.3	(3.5)	13.3	9.8	+50		
	3.7	-0.2	2+00	4.1	0.6		14.0	10.5			
	3.5	0.0		4.1	0.6		14.4	10.9			
+50	3.8	-0.3		4.1	0.6	4+00	14.4	10.9			
	3.7	0.2		4.4	0.9		14.3	10.8			
	3.7	0.2		4.4	0.9		14.0	10.5			
	3.7	0.2	+50	4.4	0.9		14.0	10.5			
	3.7	0.2		4.5	1.0		14.3	10.9			
1+00	3.7	0.2		4.6	1.1	+50	14.6	11.1			
	3.7	0.2		7.8	4.3						
	3.7	0.2		10.1	6.6						
	3.8	0.3	3+00	9.4	5.9						
	3.9	0.4		10.5	7.0						
+50	3.8	0.3		11.0	7.5	5+00					
+60	3.8	0.3	+30	11.4	7.9	+10					

3-28-52

Sta W. 127+00

0+00 = N 91+00 Sound North

Dist Sound Px

0+00 9.0 5.7

13:23 9.0

(3.3) 4.0 0.7

3.5 0.2

30 + 0.3

+50 2.7 + 0.6

2.2 + 1.1

2.4 + 0.9

3.1 + 0.2

5.7 - 2.4

1+00 9.0 8.7

11.0 7.7

12.2 8.9

13.2 9.9

13.2 9.9

+50 13.5 10.2

68

~~STA W13170 END SECTION~~~~0+00 = N103+00 SOUND NORTH~~~~Dist Sound Dist Sound~~

STAN 104+00

0+00 = W 12400 SOUND WEST

DIST	SOUND		DIST	SOUND	PX
20+00	14.7	10.3		13.0	8.7
	14.8	10.4		13.0	8.7
9:10	15.0	10.6	22+00	13.0	8.7
	15.0	10.6		13.0	8.7
	15.4	11.0		13.0	8.7
50	15.4	11.0		13.0	8.7
	16.6	12.2	(4.3)	12.8	8.5
(4.4)	16.0	11.6	50	12.8	8.5
	12.1	7.7		12.6	8.3
	12.7	8.3	9:13	12.6	8.3
21+00	13.2	8.8		13.0	8.7
	13.3	8.9		13.0	8.7
	13.0	8.6	23+00	13.1	8.8
	12.8	8.4		13.1	8.8
	13.0	8.6		13.1	8.8
50	13.0	8.6		13.0	8.7
	13.0	8.6		13.0	8.7
	12.8	8.4	+50	13.0	8.7

4-7-52
STA N 107+00

(69)

0+00 = W 12400 SOUND WEST

DIST	SOUND		DIST	SOUND	PX
17+00	14.0	9.3		14.4	9.4
8:45	13.8	9.1		14.4	9.8
	13.5	8.8	19+00	14.4	9.8
	13.2	8.5		14.4	9.8
	13.1	8.4		14.4	9.8
50	13.1	8.4		14.3	8.7
(4.7)	13.1	8.4	(4.6)	14.1	9.5
	13.0	8.3	50	14.2	9.6
	12.8	8.1		14.2	9.6
	12.7	8.0		14.4	9.7
18+00	12.3	7.6	8:47	14.1	9.4
	12.0	7.3		14.2	9.6
	12.0	7.3	20+00	14.2	9.6
	12.0	7.3		14.2	9.6
	12.5	7.8		14.1	9.5
50	14.5	7.8		14.0	9.4
	14.8	10.1		13.8	9.2
	14.6	9.9	50	13.8	9.2

N107+00 CONTD WEST

DIST	SOUND	
20+60	13.3	8.7
	13.7	9.1
8:48	4.2	+0.4
	4.2	+0.4
21+00	4.2	+0.4
(4.6)	4.2	+0.4
	4.3	+0.3
	4.3	+0.3
	4.3	+0.3
50	4.3	+0.3

4-7-52
STA N 108+00

(70)

0+00 = W 12400 SOUND WEST

DIST	SOUND		DIST	SOUND	PX
16+00	12.0	7.9		14.0	10.0
	12.0	7.9		13.4	9.4
9:37	12.4	8.3	18+00	13.0	9.0
	13.4	9.3		13.7	9.7
	13.4	9.3		14.0	10.0
50	13.1	9.3	4.0	13.7	9.7
	12.5	8.1	(4.0)	13.3	9.3
(4.1)	11.0	6.9	50	13.3	9.3
	11.4	7.3		13.1	9.1
	11.8	7.7		13.1	9.1
17+00	12.0	7.9		13.1	9.1
	11.8	7.7		13.1	9.1
	11.8	7.7	19+00	13.1	9.1
	13.5	9.1	9:40	13.1	9.1
	13.5	9.1		13.1	9.1
50	14.0	9.9		13.1	9.1
	14.0	9.9		13.2	9.2
	14.0	9.9	50	13.2	9.2

N108+00 CONTD WEST

DIST SOUND

19+60 13.2 9.2

13.1 9.1

13.2 9.2

13.2 9.2

20+00 13.4 9.4

9.4 13.3 9.3

(4.0) 13.0 9.0

13.0 9.0

12.7 8.7

50 5.0 1.0

3.5 +0.5

3.6 +0.4

3.5 +0.5

3.4 +0.6

21+00 3.2 +0.8

4-7-52
STA N109+00

(7)

0+00 = 12 400 WEST. SOUND WEST

DIST SOUND DIST SOUND

18+00 12.5 8.8 13.1 9.4

12.4 8.7 12.3 8.6

10:06 12.5 8.8 20+00 12.3 8.6

14.4 10.7 12.1 8.4

14.5 10.8 10:08 8.0 4.3

50 14.4 10.7 2.5 +1.2

14.0 10.3 (3.7) 2.7 +1.0

(3.7) 13.7 10.0 50 3.2 +0.5

13.4 9.7 3.2 +0.5

13.4 9.7 3.1 +0.6

19+00 13.3 9.6 3.0 +0.7

13.3 9.6 2.5 +1.2

13.5 9.8 21+00 2.3 +1.4

13.4 9.7

13.4 9.7

50 13.5 9.8

13.5 9.8

13.4 9.7

STAN 110+00

0+00 = W 12400 SOUND WEST PX

DIST	SOUND	DIST	SOUND
7+00	11.0	7.6	13.1
	11.1	7.7	10.31 13.5
10.29	11.3	7.9	9+00 13.6
	11.4	8.0	13.6
	12.1	8.7	13.8
50	14.0	10.6	13.7
	14.8	11.4	(3.3) 13.4
(3.5)	14.8	11.4	50 13.4
(3.4)	14.8	11.4	13.4
	13.5	10.1	13.4
8+00	12.0	8.6	13.4
	12.0	8.6	13.3
	12.2	8.8	10+00 13.3
	12.4	9.0	13.5
	12.7	9.3	12.0
50	13.0	9.6	12.0
	13.0	9.6	12.0
	13.0	9.6	50 11.8

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(72)

STAN 110+00 CONTD

DIST	SOUND	DIST	SOUND
	12.0	8.7	50 10.6
	12.0	8.7	10.6
	12.0	8.7	10.9
	11.5	8.2	10.5
11+00	11.3	8.0	10.4
	11.3	8.0	13+00 10.5
	11.1	7.8	10.6
	10.6	7.3	10.35 10.6
(3.3)	10.3	7.0	(3.3) 10.7
50	10.1	6.8	11.0
	10.0	6.7	50 12.2
	10.0	6.7	12.2
	10.0	6.7	12.2
	10.1	6.8	12.2
12+00	10.3	7.0	12.5
	10.3	7.0	14+00 12.6
10.34	10.4	7.1	12.5
	10.5	7.2	12.5
	10.5	7.2	12.7

STAN 110+00 CONTD WEST

DIST	SOUND		DIST	SOUND	
14+40	12.8	9.5		13.1	9.9
50	12.8	9.5		13.9	10.2
	12.8	9.5	50	13.1	9.9
10:36	12.6	9.3		13.1	9.9
	12.5	9.2		13.3	10.1
	12.5	9.2	10:38	13.6	10.4
15+00	12.4	9.1		13.8	10.6
	12.5	9.2	17+00	13.2	10.0
(3.3)	12.5	9.2	(3.2)	13.0	9.8
	12.6	9.3		13.0	9.8
	12.5	9.2		13.0	9.8
50	12.6	9.3		13.1	9.9
	12.7	9.4	50	13.1	9.9
	12.8	9.5		13.2	10.0
	13.0	9.7		13.9	10.7
	13.0	9.7		13.0	9.8
16+00	13.0	9.7		13.0	9.8
	13.0	9.7	18+00	13.1	9.9
	13.1	9.8		13.4	10.2

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STAN 110+00 CONTD

(73)

DIST	SOUND		DIST	SOUND	
	13.3	10.1		1.8	+1.4
	13.2	10.0		2.0	+1.2
	13.1	9.9		2.3	+0.9
50	13.0	9.8		2.7	+0.5
	13.1	9.9	50	3.0	+0.2
	13.1	9.9		2.7	+0.5
	12.6	9.4	(3.2)	2.2	+1.0
(3.2)	12.6	9.4			
19+00	12.5	9.3			
10:40	12.5	9.3	21+00		
	12.4	9.2			
	12.4	9.2			
	12.5	9.3			
50	12.5	9.3			
	12.3	9.1			
	12.1	8.9			
	12.2	9.0			
	11.5	8.3			
20+00	2.5	+0.7			

STAN 111+00

4-7-52
N 111+00 CONTD

(79)

0+00 = W 12400 SOUND WEST			P.A. DIST SOUND			DIST SOUND				
DIST	SOUND		DIST	SOUND		12.2	9.4	50	10.7	7.9
3+00	0.3 +2.6		12.5	9.7	11.07	12.2	9.4	11.09	10.6	7.8
11.03	0.7 +2.2		12.8	10.0		12.0	9.2		10.6	7.8
	2.1 +0.8	5+00	13.0	10.2		11.7	8.9		10.8	8.0
	8.0 5.1	11.05	13.0	10.2	7+00	11.7	8.9		11.0	8.2
	9.8 6.9		12.8	10.0		11.8	9.0	9+00	11.5	8.7
50	11.0 8.1		12.8	10.0		12.0	9.2		11.5	8.7
	12.0 9.1	(2.8)	12.6	9.8	(2.8)	12.1	9.3	(2.8)	11.2	8.4
(2.9)	12.0 9.1	50	12.7	9.9		12.3	9.5		11.2	8.4
	12.0 9.1		12.6	9.8	50	12.1	9.3		10.8	8.0
	12.3 9.4		12.6	9.8		12.5	9.7	50	10.5	7.7
4+00	12.7 9.8		12.8	10.0		12.1	9.3		10.1	7.3
	13.0 10.1		12.6	9.8		12.0	9.2		9.8	7.0
	13.1 10.2	6+00	12.3	9.5		11.7	8.9		9.2	6.4
	13.0 10.1		11.8	9.0	8+00	11.3	8.5		9.0	6.2
	13.0 10.1		11.8	9.0		11.0	8.2	10+00	9.0	6.2
50	13.0 10.1		12.0	9.2		11.0	8.2		8.9	6.1
	12.7 9.8		12.1	9.3		11.0	8.2		9.5	6.7
	12.5 9.6	50	12.1	9.3		10.8	8.0		9.5	6.7

N 11+00 CONTD WEST

N 11+00 CONTD

DIST	SOUND		DIST	SOUND
10+40	10.0	7.3		12.6 9.9
50	10.2	7.5		12.5 9.8
11.11	10.6	7.9	50	12.5 9.8
	11.0	8.3		12.5 9.8
	11.0	8.3		12.3 9.6
	11.0	8.3	11.14	12.1 9.4
11+00	11.0	8.3		12.2 9.5
	11.0	8.3	13+00	12.2 9.5
(2.7)	10.6	7.9	(2.7)	12.2 9.5
	10.4	7.7		12.4 9.7
	10.3	7.6		12.4 9.7
50	10.0	7.3		12.4 9.7
	10.3	7.6	50	12.3 9.6
	11.6	8.9		12.2 9.5
	12.5	9.8		12.2 9.5
	13.0	10.3		12.0 9.3
12+00	13.0	10.3		11.8 9.1
	13.0	10.3	14+00	11.7 9.0
	12.7	10.0		11.3 8.6

DIST	SOUND		DIST	SOUND
	11.5	8.8		13.3 10.6
11.15	12.4	9.7		13.5 10.8
	12.4	9.7		13.3 10.6
50	12.0	9.3		13.4 10.7
	11.7	9.0	50	13.6 10.9
	11.4	8.7		13.8 11.1
	11.4	8.7	11.18	13.6 10.9
(2.7)	11.4	8.7	(2.7)	13.5 10.8
15+00	11.1	8.4		13.5 10.8
	11.5	8.8	17+00	13.4 10.7
	12.2	9.5		13.2 10.5
	14.0	11.3		13.0 10.3
	14.4	11.7		13.0 10.3
50	13.8	11.1		13.1 10.4
	13.0	10.3	50	13.2 10.5
	12.6	9.9		12.8 10.1
11.17	12.8	10.1		12.4 9.7
	13.1	10.4		12.4 9.7
16+00	13.3	10.6		12.3 9.6

4-7-52
N111400 CONTD WEST

(76)

Dist	Sound	Dist	Sound
18+00	12.3	9.7	11:22 1.3 +1.3
	12.3	9.7	20+00 1.3 +1.3
	12.3	9.7	
	12.2	9.6	
	12.4	9.8	
50	12.5	9.9	
11:20	12.2	9.6	
	12.1	9.5	
(2.6)	12.1	9.5	
	12.0	9.4	
19+00	12.0	9.4	
	11.7	9.1	
	11.7	9.1	
	11.2	8.6	
	11.2	8.6	
50	11.2	8.6	
	11.4	8.8	
	7.0	4.4	
	1.2	+1.4	

4-2-52

Sta	FROM	TO
N103+00	W13170 End Sec.	North.
N104+00	W14400	W14500
N107+00	W14100	W14550
N108+00	W14000	W14500
N109+00	W14200	W14500
N110+00	W13100	W14500
N111+00	W12700	W14400
N112+00	W12700	W14400
N113+00	W12750	W14350
N114+00	W12800	W14350
N115+00	W12850	W14300
N116+00	W12900	W14300
FUTURE		
N121+00	W12950	W14150
N122+00	W12950	W14150
N123+00	W12950	W14100
N124+00		

3-28-52

(77)

N. 95+00 - W 12+100

Ch. - Horse 33°-27'

Horse - Ken. 25°-03'

Pole - Ken. 34°-26'

N 95+00 W ?

Ch. - Horse 37°-49'

Horse - Ken. 20°-54'

Pole - Ken. 34°-56'

	EAST	WEST
5 TA		
	0+00 = W. 13,000	
N124+00		1050
N123+00		1100
N122+00		1100
N121+00	SET.	1150
	JOG EAST 50' To W12,950	
N120+00		1200
N119+00		1250
N118+00		1250
N117+00		1200
	START WEST	
	B.L. = 12,400 W	
N116+00	500	1900
N115+00	450	1900
N114+00	400	1950
N113+00	350	1950
N112+00	300	2000
N111+00	300	2000
N110+00	250	600
N109+00	200	550
N108+00	150	500
N107+00	100	500
N106+00	0	450

N^o 23 = N120+00 - W13000
 N^o 24 = N128+00 - W13000
 2A = LPT.
 N33° N 24" E
 25

X - MARSTON	S 63-28' 50" E	
- L.V. TANK	N 79° 45' 30" E	
	89-59-60	
	33-41-30	
	56 18 30	
	79-45-30	90
	10° 14' 30"	
	146-18 WEST	STOP
	START	
N105+00	0	400
N104+00	0	300
	JOG To 12,100 W	
N103+00	200	550
N102+00	200	550
N101+00	100	500
N100+00	100	900
N99+00	0	850
N98+00	0	800
N97+00	0	800
N96+00	0	700
N96+00	0	750
N95+00	0	800
N94+00	0	700

650 set Stake of Sound N.

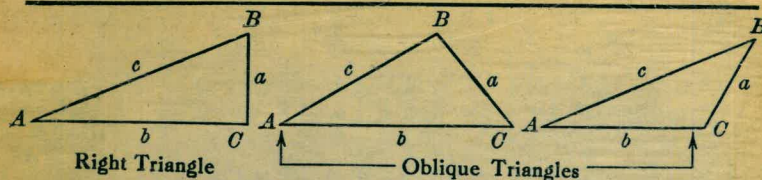
B/L. W13000

STA	EAST
N100+00	350
N99+00	400
N98+00	450
N97+00	500
N96+00	500
N95+00	500
N94+00	500
N93+00	500
N92+00	500
N91+00	400
N91+00	300' E & S, N.

12,100
 1,150
 13,250

K C 57031
 K P 370521

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 times (1 - cosine of vertical angle). With the same figures as in the preceding example, the following result is obtained. $\cos 5^\circ 10' = .9959$. $1 - .9959 = .0041$. $319.4 \times .0041 = 1.31$. $319.4 - 1.31 = 318.09$ 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.