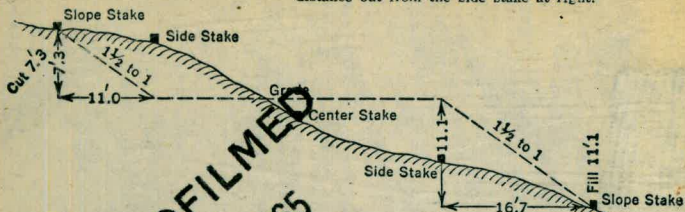


100

MISSION BAY

**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.



*MB No 100*

**MICROFILMED**  
**JAN 8 1965**

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

The paper in this book No. 373 A  
 is made of 50% high grade rag stock  
 with a WATER RESISTING surface sizing.



(Contd from MBN=99) 10-24-57

N. 116+00; 0+00 = W. 18,000; SOUND EAST

N. 116+00 EAST

DIST Sound Elev DIST Sound Elev

DIST	Sound	Elev	DIST	Sound	Elev	DIST	Sound	Elev	DIST	Sound	Elev
			(7.1)	7.5	+0.4	(7.1)	7.4	0.3			
0+00	6.1	+1.0	(7.1)	6.6	+0.5	900	7.5	0.4		7.4	0.3
(7.1)	6.1	+1.0	2+00	6.6	+0.5	4+00	7.5	0.4	6+00	7.3	0.2
<u>8:57</u>	6.2	+0.9		6.7	+0.4		7.5			7.2	0.1
	6.3	+0.8		6.7	+0.4		7.5			7.1	0.0
	6.4	+0.7		6.8	+0.3		7.5			7.0	+0.1
50	6.3	+0.8		6.8	+0.3		7.5			6.8	+0.3
	6.3	+0.8	50	6.8	+0.3	50	7.5		50	6.7	+0.4
	6.3	+0.8		6.7	+0.4		7.5			6.7	+0.4
	6.4	+0.7		6.7	+0.4		7.5			6.7	+0.4
	6.5	+0.6		6.8	+0.3		7.6	0.5		6.6	+0.5
1+00	6.5	+0.6		6.8	+0.3		7.8	0.7		6.6	+0.5
	6.5	+0.6	3+00	6.8	+0.3	5+00	7.9	0.8	7+00	6.6	+0.5
	6.4	+0.7		6.8	+0.3		7.7	0.6		6.6	+0.5
	6.4	+0.7		6.8	+0.3		7.4	0.3		6.6	+0.5
	6.4	+0.7		6.9	+0.2		7.4	0.3		6.6	+0.5
50	6.4	+0.7		7.2	0.1		7.3	0.2		6.5	+0.6
	6.5	+0.6	50	7.3	0.2	50	7.3	0.2	50	6.4	+0.7
	6.6	+0.5		7.4	0.3		7.4	0.3		6.3	+0.8
	6.6	+0.5		7.4	0.3		7.4	0.3		6.2	+0.9

N. 116+00 CONTD EAST 10-24-57

Dist	Sound	Elev	Dist	Sound	Elev
(7.1)	6.1	+1.0	(7.1)	6.0	+1.1
	6.2	+0.9		6.0	+1.1
8+00	6.2	+ {	10+00	6.0	+1.1
	6.2	+ {		6.0	+1.1
	6.2	+ {		6.0	+1.1
	6.1	+1.0		6.1	+1.0
	6.1	+ {		6.2	+0.9
50	6.1	+ {	50	6.2	+0.9
	6.1	+ {		6.3	+0.8
	6.0	+1.1		6.3	+0.8
	6.1	+1.0		6.3	+0.8
	6.1	+ {		6.3	+0.8
9+00	6.1	+ {	11+00	6.3	+0.8
	6.1	+ {		6.3	+0.8
	6.1	+ {		6.2	+0.9
	6.0	+1.1		6.2	+0.9
	6.0	+ {		6.2	+0.9
50	6.0	+ {	50	6.2	+0.9
	6.0	+ {		6.3	+0.8
	6.0	+ {		6.3	+0.8

N. 116+00 EAST ②

Dist	Sound	Elev	Dist	Sound	Elev
(7.1)	6.3	+0.8	(7.1)	7.8	0.7
	6.3	+0.8		8.2	1.1
12+00	6.3	+0.8	14+00	8.8	1.7
	9.05	6.3		8.9	1.8
	6.3	+0.8		9.6	2.5
	6.4	+0.7		10.1	3.0
	6.7	+0.4		10.3	3.2
50	6.4	+0.7	50	11.3	4.2
	6.4	+0.7		11.3	4.2
	6.5	+0.6		11.3	4.2
	6.5	+0.6		10.7	3.6
	6.5	+0.6		10.4	3.3
13+00	6.5	+0.6	15+00	10.3	3.2
	6.6	+0.5		10.2	3.1
	6.6	+0.5		9.9	2.8
	6.6	+0.5		9.6	2.5
	6.6	+0.5		9.3	2.2
50	6.7	+0.4	50	8.7	1.6
	7.1	+0.0		8.2	0.1
	7.6	0.5		6.1	+1.0

N. 116+00 CONTD EAST 10-24-57

DIST	SOUND	Elev	DIST	SOUND	Elev
(7.1)	5.5	+1.6			
	5.0	+2.1			
16+00	4.0	+3.0			
<u>9.10</u>	4.6	+2.5			
	4.2	+2.9			
	3.6	+3.5			
	3.3	+3.8			
50	2.8	+4.3			
	2.0	+5.1			

N. 116+00; SOUND WEST ③

DIST	SOUND	Elev	DIST	SOUND	Elev
0+00			(7.1)	7.0	+0.1
(7.1)	6.3	+0.8	2+00	7.1	0.0
<u>9.17</u>	6.4	+0.7		7.1	0.0
	6.3	+0.8		6.9	+0.2
	6.3	+0.8		6.8	+0.3
50	6.3	+0.8		6.8	+0.3
	6.3	+0.8	50	6.8	+0.3
	6.4	+0.7		6.8	+0.3
	6.5	+0.6		6.9	+0.2
	6.5	+0.6		6.9	+0.2
1+00	6.5	+0.6		6.8	+0.3
	6.6	+0.5	3+00	6.9	+0.2
	6.6	+0.5		6.9	+0.2
	6.6	+0.5		7.0	+0.1
	6.6	+0.5		7.0	+0.1
50	6.6	+0.5		7.0	+0.1
	6.7	+0.4	50	7.1	0.0
	6.9	+0.2		7.1	0.0
	7.0	+0.1		7.1	0.0
	7.0	+0.1		7.1	0.0

N. 116+00 CONTD WEST 10-24-57					
Dist	Sound	Elev	Dist	Sound	Elev
(7.1)	6.9	+0.2	(7.1)	16.2	9.1
4+00	6.9	+0.2	6+00	15.9	8.8
<u>9:20</u>	6.9	+0.2		15.8	8.7
	6.9	+0.2		15.9	8.8
	6.8	+0.3		15.7	8.6
	6.7	+0.4		15.7	8.6
50	6.8	+0.3	50	15.6	8.5
	6.9	+0.2		15.6	8.5
	7.2	0.1		15.7	8.6
	8.6	1.5		15.7	8.6
	10.5	3.4		15.8	8.7
5+00	13.0	5.9	7+00	15.8	8.7
	14.6	7.5		15.7	8.6
	15.2	8.1		15.7	8.6
	15.4	8.3		15.7	8.6
	15.5	8.4		15.6	8.6
50	15.6	8.5	50	15.5	8.4
	15.7	8.6		15.3	8.2
	15.8	8.7		15.3	8.2
	16.0	8.9		15.4	8.3

N. 116+00 WEST					
Dist	Sound	Elev	Dist	Sound	Elev
(7.1)	16.0	8.9	(7.1)	14.7	7.6
8+00	16.0	8.9	10+00	14.9	7.8
	15.8	8.7		15.0	7.9
	15.4	8.3		14.9	7.8
	15.3	8.2		13.9	6.8
	15.3	8.2		11.1	4.0
50	15.6	8.5	50	8.2	1.1
	15.7	8.6		6.9	+0.2
	16.0	8.9		6.2	+0.9
	16.1	9.0		5.7	+1.4
<u>9:25</u>	16.1	9.0		5.1	+2.0
9+00	16.2	9.1	11+00	4.4	+2.7
	16.2	9.2		3.8	+3.3
	15.9	8.8		3.2	+3.9
	15.0	7.9		2.1	+5.0
	14.8	7.7		1.1	+6.0
50	14.6	7.5	50		
	14.4	7.3			
	14.6	7.5			
	14.6	7.5			

10-24-57  
 N.118+00; 0+00 = W18000; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	6.2	+0.9	(7.0)	6.9	+0.1
(7.1)	6.2	+0.9	2+00	7.0	0.0
<u>9.37</u>	6.2	+0.9		7.0	0.0
	6.3	+0.8		7.1	0.1
	6.3	+0.8		6.8	+0.2
50	6.3	+0.8		6.8	+0.2
	6.3	+0.8	50	6.8	+0.2
	6.3	+0.8		6.8	+0.2
	6.2	+0.9		6.8	+0.2
	6.2	+0.9		6.8	+0.2
1+00	6.2	+0.9		6.8	+0.2
	6.2	+0.9	3+00	6.6	+0.4
	6.2	+0.9		6.8	+0.2
	6.3	+0.8		6.8	+0.2
	6.4	+0.7		6.8	+0.2
50	6.4	+0.7		6.8	+0.2
	6.4	+0.7	50	6.8	+0.2
	6.7	+0.4		6.8	+0.2
	6.9	+0.2		6.8	+0.2

N.118+00 EAST ③

Dist	Sound	Elev	Dist	Sound	Elev
(7.0)	6.5	+0.5	(7.0)	6.2	+0.8
	6.5	+0.5		6.2	+0.8
4+00	6.4	+0.6	6+00	6.2	+0.8
	6.4	+0.6		6.0	+1.0
	6.4	+0.6		6.0	+1.0
	6.4	+0.6		6.0	+1.0
	6.1	+0.9		6.0	+1.0
50	6.3	+0.7	50	6.0	+1.0
<u>9.40</u>	6.3	+0.7		6.0	+1.0
	6.3	+0.7		6.0	+1.0
	6.3	+0.7		6.0	+1.0
	6.3	+0.7		6.0	+1.0
	6.3	+0.7		5.8	+1.2
5+00	6.3	+0.7	7+00	5.8	+1.2
	6.3	+0.7		5.8	+1.2
	6.3	+0.7		5.8	+1.2
	6.5	+0.5		5.8	+1.2
	6.5	+0.5		5.8	+1.2
50	6.5	+0.5	50	5.8	+1.2
	6.2	+0.8		5.7	+1.3
	6.2	+0.8		5.7	+1.3



N. 118+00 CONTD EAST 10-24-57			N. 118+00 EAST						⑥		
Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev
(70)	5.7	+1.3	(70)	6.7	+0.3	(70)	7.3	0.3	(70)	12.5	5.5
	5.8	+1.2	<u>9:45</u>	6.7	+0.3		7.0	0.0	<u>9:50</u>	11.2	4.2
8+00	5.8	+1.2	10+00	6.9	+0.1	12+00	7.2	0.2	14+00	10.6	3.6
	6.0	+1.0		7.0	0.0		7.1	0.1		9.0	2.0
	6.2	+0.8		7.0	0.0		7.1			8.5	1.5
	6.6	+0.4		7.0	0.0		7.1			8.0	1.0
	6.9	+0.1		7.4	0.4		7.1			7.5	0.5
50	7.1	0.1	50	7.9	0.9	50	7.1		50	7.2	0.2
	7.1	0.1		7.7	0.7		7.1			6.9	+0.1
	7.1	0.1		7.7	0.7		7.1			6.4	+0.6
	7.3	0.3		8.0	1.0		7.2	0.2		5.8	+1.2
	7.3	0.3		8.2	1.2		7.5	0.5		5.8	+1.3
9+00	6.7	+0.3	11+00	8.2	1.2	13+00	8.3	1.3	15+00	5.5	+1.5
	6.6	+0.4		8.2	1.2		10.3	3.3		5.2	+1.8
	6.5	+0.5		8.2	1.2		11.6	4.6		4.9	+2.1
	6.3	+0.7		7.8	0.8		13.2	6.2		4.8	+2.2
	6.5	+0.5		7.5	0.5		14.0	7.0		4.4	+2.6
50	6.5	+0.5	50	7.5	0.5	50	14.0	7.0	50	4.1	+2.9
	6.7	+0.3		7.3	0.3		13.7	6.7		4.0	+3.0
	6.7	+0.3		7.3	0.3		13.0	6.0		3.5	+3.5
										3.1	+3.9
										2.8	+4.2
									16+00	1.8	+5.2

N. 118+00; SOUND			ND WEST 10-24-57			N. 118+00; WEST			Elev. ①		
Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev
0+00			(6.8)	7.0	0.2	(6.8)	7.0	0.2	(6.7)	13.9	7.2
(6.8)	6.3	+0.5	2+00	7.0		4+00	7.0	0.2	6+00	14.7	8.0
10+00	6.0	+0.8		7.0			7.0	0.2		15.1	8.4
	6.0	+0.8		7.0			7.2	0.4		15.1	8.4
	6.0	+0.8		7.0			7.4	0.6	10+00	15.3	8.6
50	6.2	+0.6	<u>100.5</u>	7.0			7.2	0.4	<u>10+00</u>	15.5	8.8
	6.2	+0.6	50	7.2	0.4	50	6.8	0.0	50	15.5	8.8
	6.3	+0.5		7.0	0.2		6.8	0.0		15.5	8.8
	6.5	+0.3		7.0			7.0	0.2		15.3	8.6
	6.5	+0.3		7.0			6.6	+0.2		15.3	
1+00	6.5	+0.3		7.0			6.6	+0.2		15.3	
	6.8	0.0	3+00	7.2	0.4	5+00	6.8	0.0	7+00	15.3	
	6.8	0.0		7.2	0.4		6.4	+0.4		15.3	
	6.8	0.0		7.2	0.4		6.4	+0.4		15.3	
	6.8	0.0		7.0	0.2		6.8	0.0		15.3	
50	6.8	0.0		7.0			6.6	+0.2		15.3	8.6
	6.8	0.0	50	7.0		50	6.8	0.0	50	15.5	8.8
	6.8	0.0		7.0			7.8	1.0		15.5	8.8
	6.8	0.0		7.0			9.0	2.2		15.5	8.8
	7.0	0.2		7.0			12.1	5.3		15.0	8.3

N. 118+00 CONTD WEST 10-24-57

Dist	Sound	Elev	Dist	Sound	Elev
(67)	14.3	7.6	(67)	13.9	7.2
8+00	14.0	7.3	10+00	13.9	
	14.0	7.3		13.9	
	13.8	7.1		13.9	7.2
	13.5	6.8		13.3	6.2
	13.5	6.8		13.3	6.6
50	13.7	7.0	50	13.3	6.6
	14.0	7.3		12.8	6.1
	14.2	7.5	10+5	12.0	5.3
	14.2	7.5		11.1	4.1
	14.5	7.8	50	9.1	2.4
9+00	14.5	7.8	11+00	6.5	+0.2
	14.8	8.1	10+0	5.9	+0.6
	14.8	8.1	10+0	5.2	+1.6
10+3	14.5	7.8		4.6	+2.1
	14.5	7.8		3.9	+2.8
50	14.4	7.7	50	3.1	+3.4
	14.0	7.3		2.1	+4.6
	14.0	7.3		1.3	+5.4
	14.0	7.3			

10-24-57

N. 120+00; 0+00 = W. 18000; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	6.2	+0.3	(6.5)	6.6	0.1
(6.5)	6.3	+0.2	2+00	6.6	
10.25	6.3	+0.2		6.6	
	6.3			6.6	
	6.3			6.6	
50	6.3			6.6	
	6.3	+0.2	50	6.6	0.1
	6.4	+0.1		6.5	0.0
	6.5	0.0		6.5	0.0
	6.6	0.1		6.5	0.0
1+00	6.5	0.0		6.4	+0.1
	6.5	0.0	3+00	6.3	+0.2
	6.5	0.0		6.2	+0.3
	6.6	0.1		6.2	+0.3
	6.6	0.1		6.3	+0.2
50	6.6	0.1		6.4	+0.1
	6.7	0.2	50	6.3	+0.2
	6.8	0.3		6.3	+0.2
	6.7	0.2		6.3	+0.2

N 120+00 CONTD EAST 10-24-57

Dist	Sound	Elev	Dist	Sound	Elev
(6.5)	6.2	+0.3	(6.4)	5.7	+0.7
	6.1	+0.4		5.7	+0.7
4+00	6.0	+0.5	6+00	5.6	+0.8
	6.1	+0.4		5.7	+0.7
	6.1	+0.4		5.6	+0.8
	6.0	+0.5		5.6	+0.8
	6.0	+0.5		5.5	+0.9
50	6.0	+0.5	50	5.4	+1.0
	6.0	+0.5		5.5	+0.9
	5.9	+0.6		5.5	+0.9
	5.8	+0.7		5.4	+1.0
	5.8	+0.7		5.4	
5+00	5.8	+0.7	7+00	5.4	+1.0
	5.8			5.6	+0.8
	5.8	+0.7		5.9	+0.5
	5.9	+0.6		6.0	+0.4
	5.9	+0.6		6.2	+0.2
50	5.8	+0.7	50	6.6	0.2
	5.7	+0.8		7.0	0.6
	5.7	+0.8		7.0	0.6

N 120+00 EAST

Dist	Sound	Elev	Dist	Sound	Elev
(6.4)	7.1	0.7	(6.4)	5.3	+1.1
10:30	7.6	1.2		5.3	
8+00	7.8	1.4	10+00	5.3	
	8.2	1.8		5.3	
	7.9	1.5		5.3	
	8.0	1.6		5.3	+1.1
	7.7	1.3		5.4	+1.0
50	7.0	0.6	50	5.5	+0.9
	6.9	0.5		5.6	+0.8
	6.7	0.3		5.6	
	6.2	+0.2		5.6	
	6.0	+0.4		5.6	
9+00	6.0	+0.4	11+00	5.6	
	5.8	+0.6		5.6	
	5.7	+0.7		5.6	
	5.7	+0.7		5.6	
	5.6	+0.8		5.6	
50	5.5	+0.9	50	5.6	
	5.4	+1.0		5.6	+0.8
	5.4	+1.0		5.4	+1.0

N.120+00 CONTD EAST 10-24-57						N.120+00; SOUND WEST 0+00 = 41.18000 @					
Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev
(64)	5.3	+1.1	(63)	8.2	1.9	0+00	(62)	6.4	0.2		
	5.3	§		8.2	1.9	(63)	5.9	+0.4	2+00	6.5	0.3
12+00	5.3	+1.1	14+00	8.0	1.7	10+00	5.9	+0.4		6.5	§
<u>10:32</u>	5.2	+1.2		7.2	0.9		6.0	+0.3		6.5	§
	5.2	§		7.0	0.7		6.2	+0.1		6.5	§
	5.2	+1.2		6.8	0.5	50	6.3	0.0		6.5	0.3
	5.3	+1.1		6.5	0.3		6.3	0.0	50	6.6	0.4
50	5.4	+1.0	50	5.9	+0.4		6.2	+0.1		6.6	§
	5.7	+0.7		5.3	+1.0		6.2	+0.1		6.6	§
	6.8	0.4		5.0	+1.3		6.1	+0.2		6.6	§
	7.4	1.0		4.6	+1.7	1+00	6.1	+0.2		6.6	0.4
	8.9	2.5		4.2	+2.1		6.2	+0.1	3+00	6.5	0.3
13+00	9.6	3.2	15+00	4.1	+2.5		6.3	0.0		6.5	0.3
	9.2	2.8	<u>1035</u>	3.8	+2.8		6.4	0.1		7.0	0.8
	8.3	1.9		3.6	+2.9		6.4			6.4	0.2
	8.2	1.8		3.3	+3.0	50	6.4			6.6	0.4
	8.0	1.6		2.9	+3.4		6.4		50	6.6	§
50	7.9	1.5	50	2.5	+3.5		6.4			6.6	0.4
	8.1	1.7		1.7	+4.1		6.4			6.7	0.5
	8.0	1.6					6.4	0.1		6.7	0.5

## N. 120+00 CONTD WEST 10-24-57

Dist	Sound	Elev	Dist	Sound	Elev
(6.2)	6.7	0.5	(6.2)	6.3	0.1
4+00	6.7	}	6+00	6.3	-
<u>10'45</u>	6.7		6.3		
	6.7	0.5		6.3	0.1
	6.8	0.6		6.5	0.3
	6.8	}		6.7	0.5
50	6.8		50	7.0	0.8
	6.8	}		8.3	2.1
	6.8		0.6		11.9
	6.7	0.5		14.0	7.8
	6.7	}		14.4	8.2
5+00	6.7		7+00	14.4	8.2
	6.7	0.5		14.6	8.4
	6.8	0.6		14.7	8.5
	6.6	0.4		15.0	8.8
	6.4	0.2		15.2	9.0
50	6.4	0.2	50	15.2	9.0
	6.3	0.1		14.5	8.3
	6.3	0.1		14.7	8.5
	6.3	0.1		14.8	8.6

## N. 120+00 WEST

Dist	Sound	Elev	Dist	Sound	Elev
(6.1)	14.9	8.8	(6.1)	15.4	9.3
8+00	15.1	9.0	10+00	15.9	9.8
	15.1	}	<u>10'50</u>	16.1	10.0
	15.1		9.0		16.2
	14.9	8.8		16.1	10.0
	15.0	8.9		16.3	10.2
50	15.2	9.1	50	15.8	9.7
	15.0	8.9		14.7	8.6
	14.0	7.9		13.7	7.6
	13.4	7.3		13.4	7.3
	13.3	7.2		13.2	7.1
9+00	13.5	7.4	11+00	12.5	6.4
	13.8	7.7		11.6	5.5
	14.0	7.9		10.3	4.2
	13.9	7.8		10.0	3.9
	13.8	7.7		8.9	2.8
50	14.0	7.9	50	7.9	1.8
	14.6	8.5		6.1	0.0
	15.0	8.9		5.3	+0.8
	15.0	8.9		5.0	+1.1

N. 120+00 CONTD WEST

DIST SOUND ELEV DIST SOUND ELEV

(6.1)	4.4	+1.7
12+00	3.9	+2.2
	3.6	+2.5
	3.3	+2.8
	2.9	+3.2
	2.4	+3.7
50	1.5	+4.6

NOTE (See Sta. 121 Pg. 17)

10-24-57

(12)

N. 122+00; 0+00 = W. 18.500; SOUND EAST

DIST SOUND ELEV DIST SOUND ELEV

0+00	6.3	0.5	(5.8)	6.0	0.2
(5.8)	6.3		2+00	6.0	
11.04	6.3			6.0	
	6.3	0.5		6.0	
	6.5	0.7		6.0	
50	6.5	0.7		6.0	
	6.3	0.5	50	6.0	0.2
	6.3	0.5		5.9	0.1
	6.5	0.7		5.9	0.1
	6.3	0.5		5.9	0.1
1+00	6.3	0.5		5.7	+0.1
	6.3	0.5	3+00	5.7	+0.1
	6.0	0.2		5.7	+0.1
	6.0			5.7	+0.1
	6.0			5.8	0.0
50	6.0			5.8	
	6.0		50	5.8	
	6.0			5.8	
	6.0	0.2		5.8	0.0

N.122+00 CONTD EAST 10-24-57

Dist	Sound	Elev	Dist	Sound	Elev
(57)	5.8	0.1	(57)	7.3	1.6
<u>1107</u>	5.8	0.1		7.3	1.6
4+00	6.1	0.4	6+00	7.3	1.6
	6.1	0.4		7.7	2.0
	6.1	0.4		7.4	1.7
	6.3	0.6		7.0	1.3
	6.7	1.0		7.0	1.3
50	7.1	1.4	50	7.4	1.7
	7.0	1.3	<u>1110</u>	7.6	1.9
	7.0	1.3		7.6	1.9
	6.8	1.1		7.0	1.3
	6.8	1.1		7.0	1.3
5+00	7.0	1.3*	7+00	7.0	1.3
	6.8	1.1		7.0	1.3
	6.8	1.1		6.8	1.1
	6.8	1.1		6.8	1.1
	6.4	0.7		6.8	1.1
50	6.8	1.1	50	7.0	1.3
	7.1	1.4		7.0	1.3
	7.1	1.4		7.2	1.5

N.122+00; EAST

Dist	Sound	Elev	Dist	Sound	Elev
(57)	6.9	1.2	(56)	5.2	+0.4
	6.7	1.0		5.2	+0.4
8+00	6.7	1.0	10+00	5.0	+0.6
	6.5	0.8		5.0	
	6.5	0.8		5.0	
	6.0	0.3		5.0	
	6.0	0.3		5.0	
50	6.0	0.3	50	5.0	
	5.7	0.0		5.0	
	5.7	0.0		5.0	
	5.9	0.2		5.0	
	5.9	0.2		5.0	
9+00	5.6	+0.1	11+00	5.0	+0.6
	5.6	+0.1		4.8	+0.8
	5.3	+0.4		4.8	
	5.2	+0.5		4.8	
	5.2			4.8	
50	5.2		50	4.8	
	5.2			4.8	
	5.2	+0.5		4.8	+0.8



N. 122+00 CONTD EAST 10-24-57

Dist	Sound	Elev	Dist	Sound	Elev
(5.6)	4.8	+0.8	(5.6)	4.5	+1.1
<u>11/15</u>	4.6	+1.0		4.5	
12+00	4.6	+1.0	14+00	4.5	
	4.8	+0.8		4.5	
	4.8	+0.8		4.5	
	5.0	+0.6		4.5	+1.1
	4.6	+1.0		4.3	+1.3
50	4.6	+1.0	50	4.2	+1.4
	4.6	+1.0		4.2	
	4.8	+0.8		4.2	
	4.6	+1.0		4.2	
	5.0	+0.6		4.2	
13+00	5.0	+0.6	15+00	4.2	
	4.6	+1.0		4.2	+1.4
	4.8	+0.8		4.0	+1.6
	4.8	+0.8		4.0	
	4.8	+0.8		4.0	
50	4.8	+0.8	50	4.0	
	4.6	+1.0		4.0	
	4.6	+1.0		4.0	+1.6

N. 122+00; EAST

Dist	Sound	Elev	Dist	Sound	Elev
(5.5)	4.0	+1.5	(5.5)	4.0	+1.5
<u>11/18</u>	4.0			4.0	+1.5
16+00	4.0		18+00	4.5	+1.0
	4.0			5.0	+0.5
	4.0		<u>11:20</u>	6.1	0.6
	4.0			6.9	1.4
	4.0			7.3	1.8
50	4.0		50	7.0	1.5
	4.0			7.0	1.5
	4.0			6.8	1.3
	4.0			7.2	1.7
	4.0			7.2	1.7
17+00	4.0		19+00	7.2	1.7
	4.0			7.5	2.0
	4.0			8.0	2.5
	4.0			8.0	2.5
	4.0			8.0	2.5
50	4.0		50	7.5	2.0
	4.0			6.3	0.8
	4.0			5.4	+0.1
	4.0	+1.5		4.3	+1.2
				3.5	+2.0
				3.1	+2.4

20+00

N. 122+00; SOUND WEST 10-24-57

Dist Sound Elev Dist Sound Elev

0+00	W 18500	P. 12	(52)	53	0.1
(5.2)	5.8	0.6	2+00	52	0.0
<u>11:35</u>	5.8	0.6		53	0.1
	5.8			52	0.0
	5.8			52	0.0
50	5.8	0.6		54	0.2
	5.5	0.3	50	7.0	1.8
	5.5			10.9	5.7
	5.5			12.6	7.4
	5.5			13.3	8.1
1+00	5.5	0.3x		13.7	8.5
	5.8	0.6	3+00	13.7	
	5.7	0.5		13.7	
	5.7	0.5		13.7	8.5
	5.5	0.3		13.2	8.0
50	5.3	0.1		12.7	7.5
	5.3		50	12.5	7.3
	5.3			12.2	7.0
	5.3			12.2	7.0
	5.3	0.1		12.2	7.0

N. 122+00; WEST

Dist Sound Elev Dist Sound Elev

(51)	12.2	7.1	(5.1)	13.4	8.3
4+00	12.2	7.1	6+00	13.0	7.9
	12.8	7.9		13.0	
	13.0	7.9		13.0	
	13.1	8.0		13.0	7.9
<u>11:40</u>	13.0	7.9		13.2	8.1
50	13.0		50	13.3	8.2
	13.0	7.9		14.0	8.9
	13.1	8.0		14.4	9.3
	13.2	8.1		14.4	9.3
	13.2			14.4	9.3
	13.2		5+00	13.2	
	13.2	8.1	7+00	14.1	9.0x
	13.2	8.1		13.7	8.6
	13.8	8.7		13.5	8.4
	13.5	8.4		14.0	8.9
	14.0	8.9		14.0	8.9
50	14.0	8.9	50	13.7	8.6
	13.8	8.7		13.3	8.2
	13.8	8.7		13.6	8.5
	13.4	8.3		13.1	8.0

N.122+00 CONTD WEST 10-24-57

Dist Sound Elev Dist Sound Elev

(4.9) 13.1 8.2 (4.9) 13.2 8.3

8+00 13.0 8.1 10+00 13.3 8.4

13.0 13.3 8.4

13.0 13.3

13.0 13.3

1145 13.0 8.1 13.350 13.2 8.3 50 13.3 8.4

13.4 8.5 13.2 8.3

13.3 8.4 13.2 8.3

13.3 8.4 13.0 8.2

13.0 8.1 13.0

9+00 13.0 11+00 13.0

13.0 13.0 8.1

13.0 12.7 7.8

13.0 12.7

13.0 8.1 12.7

50 12.8 7.9 50 12.7 7.8

12.6 7.7 13.0 8.1

13.0 8.1 13.0 8.1

13.0 8.1 13.0 8.1

N.122+00; WEST

Dist Sound Elev Dist Sound Elev

(4.8) 13.0 8.2 (4.8) 9.9 5.1

12+00 13.0 14+00 8.5 3.7

13.0 11:50 7.2 2.4

11:48 13.0 6.8 2.0

13.0 5.1 0.3

13.0 4.3 +0.5

50 13.0 50 3.5 +1.3

13.0 3.0 +1.8

13.0 2.4 +2.4

13.0 8.2 1.8 +3.0

14.1 9.3

13+00 14.1 9.3 15+00

14.1 9.3

14.8 10.0

16.2 11.4

14.9 10.1

50 14.8 10.0 50

14.5 9.7

14.0 9.2

12.7 7.9

(6)

10-24-57

N. 121+00; 0+00 = W 18500; SOUND EAST

DIST	Sound	Elev	DIST	Sound	Elev
0+00	5.0	0.5	(4.5)	4.7	0.2
(4.5)	5.0		2+00	4.7	0.2
<u>1203</u>	5.0	0.5		4.8	0.3
	5.1	0.6		4.8	
	5.1			4.8	
50	5.1			4.8	0.3
	5.1	0.6	50	4.7	0.2
	5.0	0.5		4.8	0.3
	5.0			4.9	0.4
	5.0			4.9	0.4
1+00	5.0			4.8	0.3
	5.0		3+00	4.8	
	5.0			4.8	
	5.0			4.8	0.3
	5.0	0.5		4.9	0.4
50	4.9	0.4		4.9	0.4
	4.9	0.4	50	4.8	0.3
	4.8	0.3		4.8	0.3
	4.8	0.3		4.8	0.3

N. 121+00; EAST

DIST	Sound	Elev	DIST	Sound	Elev
(4.5)	4.8	0.3	(4.5)	4.5	0.0
<u>1205</u>	4.8			4.5	0.0
4+00	4.8		6+00	4.4	+0.1
	4.8			4.3	+0.2
	4.8			4.2	+0.3
	4.8			4.1	+0.4
	4.8			4.0	+0.5
50	4.8		50	4.0	
	4.8	0.3		4.0	
	4.7	0.2		4.0	
	4.6	0.1		4.0	
	4.6			4.0	
5+00	4.6		7+00	4.0	
	4.6	0.1		4.0	+0.5
	4.7	0.2		4.1	+0.4
	4.7	0.2		4.1	+0.4
	4.6	0.1		4.2	+0.3
50	4.6		50	4.2	
	4.6			4.2	
	4.6	0.1		4.2	+0.3

N. 121+00 CONTD EAST

Dist	Sound	Elev	Dist	Sound	Elev
(4.5)	4.2	+0.3	(44)	4.2	+0.2
	4.2			4.2	
8+00	4.2		10+00	4.2	
	4.2			4.2	
	4.2			4.2	
	4.2			4.2	
	4.2			4.2	
50	4.2		50	4.2	
	4.2			4.2	
	4.2			4.2	
	4.2			4.2	
	4.2			4.2	
9+00	4.2		11+00	4.2	+0.1
	4.2			4.3	+0.1
	4.2			4.4	0.1
	4.2			4.5	0.1
	4.2			4.6	0.1
50	4.2		50	5.0	0.6
	4.2			6.1	1.1
	4.2	+0.3		6.3	1.9

N. 121+00 EAST

Dist	Sound	Elev	Dist	Sound	Elev
(44)	6.4	2.0	(44)	3.0	+1.4
	6.8	2.4		3.0	
12+00	7.2	2.8	14+00	3.0	
	8.3	3.9		3.0	
	7.6	3.2		3.0	
	6.9	2.5		3.0	
	7.0	2.6		3.0	
50	6.0	1.6	50	3.0	
	4.9	0.5		3.0	
	4.3	+0.1		3.0	
	3.8	+0.6		3.0	
	3.3	+1.1		3.0	
13+00	3.3	+1.1	15+00	3.0	
	3.3	+1.1		3.0	
	3.2	+1.2		3.0	
	3.2	+1.2		3.0	
	3.1	+1.3		3.0	
50	3.1	+1.3	50	3.0	
	3.0	+1.4		3.0	
	3.1	+1.3		3.0	+1.4

N. 121+00 CONTD EAST. 10-24-57

DIST	SOUND	ELEV	DIST	SOUND	ELEV	
(4.2)	2.0	+1.2	(4.2)	3.3	+0.9	
	3.0	}		4.7	0.5	
16+00	3.0		18+00	5.7	1.5	
	3.0	+1.2		6.9	2.7	
	2.9	+1.3	1215	7.2	3.0	
	2.9	}		6.9	2.7	
	2.9			5.9	1.7	
50	2.9	}	50	5.4	1.2	
	2.9			5.5	1.3	
	2.9			5.6	1.4	
	2.9			5.9	1.7	
	2.9	+1.3		6.2	2.0	
17+00	2.8	+1.4	19+00	6.0	1.8	
	2.8	}		6.0	}	
	2.8			6.0		
	2.8	}		6.0	1.8	
	2.8			5.1	0.9	
50	2.8	}	50	4.7	0.5	
	2.8		+1.4		4.0	+0.2
	2.9		+1.3		3.0	+1.2
				20+00	2.4	+1.6
				2.1	+2.1	
				1.9	+2.3	

N. 121+00; SOUND WEST 0+00 = W18500(19)

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00			(4.0)	5.0	1.0
(7.0)	4.4	0.4	2+00	5.7	1.7
1225	4.4	0.4		8.8	4.8
	4.4	0.4		10.9	6.9
	4.3	0.3		11.3	7.3
50	4.3	0.3		11.7	7.7
	4.3	0.3	50	11.7	7.7
	4.2	0.2		11.9	7.9
	4.1	0.1		11.9	7.9
	4.0	0.0		11.9	7.9
1+00	3.9	+0.1		12.2	8.2
	3.9	+0.1	3+00	12.2	}
	4.3	0.3		12.2	
	4.3	0.3		12.2	
50	4.3	0.3		12.2	
	4.4	0.4	50	12.2	8.2
	4.4	}		12.1	8.1
	4.4			11.8	7.8
	4.4	0.4		11.6	7.6

N. 121+00 CONTD WEST 10-24-57

Dist	Sound	Elev	Dist	Sound	Elev
(4.0)	12.2	8.2	(4.0)	12.6	8.6
4+00	12.3	8.3	6+00	12.4	8.4
	12.4	8.4		12.1	8.1
	12.5	8.5		12.0	8.0
	12.5	8.5		12.0	8.0
	12.6	8.6		12.0	8.0
50	12.7	8.7	50	11.8	7.8
	12.7	8.7		12.0	8.0
	12.7	8.7		12.3	8.3
	12.8	8.8		12.4	8.4
	13.0	9.0		12.3	8.3
5+00	13.0	9.0	7+00	12.2	8.2
	12.7	8.7		12.2	8.2
	12.3	8.3		12.2	8.2
	12.3	8.3		12.0	8.0
	12.3	8.3		10.8	6.8
50	12.4	8.4	50	10.0	6.0
	12.7	8.7		9.0	5.0
	12.6	8.6		8.3	4.3
	12.7	8.7		7.8	3.8

N. 121+00; WEST (20)

Dist	Sound	Elev	Dist	Sound	Elev
(3.9)	8.1	4.2	(3.9)	10.6	6.7
8+00	8.3	4.4	10+00	11.4	7.5
	9.0	5.1		11.5	7.6
	8.9	5.0		11.6	7.7
	8.4	4.5		11.7	7.8
	8.6	4.7		12.0	8.1
50	8.0	4.1	50	12.0	8.1
	8.5	4.6		11.9	8.0
	8.7	4.8		11.9	8.0
	8.7	4.8		11.9	8.0
	8.4	4.5		11.8	7.9
9+00	7.9	4.0	11+00	11.5	7.6
	7.7	3.8		11.3	7.4
	7.8	3.9		11.4	7.5
	7.8	3.9		11.5	7.6
	8.5	4.6		11.5	7.6
50	8.2	4.3	50	11.5	7.6
	8.0	4.1		11.5	7.6
	8.2	4.3		11.5	7.6
	9.2	5.3		11.4	7.5

N. 121+00 CONTD WEST 10-24-57

Dist	Sound	Elev	Dist	Sound	Elev
(38)	11.4	7.6	(38)	8.6	4.8
12+00	11.6	7.8	14+00	6.9	3.1
12:35	11.8	8.0		3.7	+0.1
	11.8	8.0		2.7	+1.1
	11.7	7.9		2.0	+1.8
	11.6	7.8		1.5	+2.3
50	11.5	7.7	50	0.3	+3.5
	11.2	7.4			
	11.1	7.3			
	11.2	7.4			
	11.1	7.3			
13+00	11.1	}	15+00		
	11.1				
	11.1	7.3			
	11.0	7.2			
	11.0	7.2			
50	10.8	7.0			
	10.4	6.6			
	10.3	6.5			
	9.9	6.1			

Plot 123, First  
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10-25-57 (See End. Sec's sig) (2)

N. 124+00; 0+00 = W. 18500; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	7.0	0.4	(66)	6.9	0.3
(66)	7.0	0.4	2+00	7.1	0.5
1048	7.1	0.5		7.1	0.5
	7.1	0.5		7.0	0.4
	7.2	0.6		6.9	0.3
50	7.3	0.7		6.9	0.3
	7.3	0.7	50	6.9	0.3
	7.2	0.6		7.0	0.4
	7.2			7.1	0.5
	7.2			7.2	0.6
1+00	7.2			7.3	0.7
	7.2		3+00	7.4	0.8*
	7.2	0.6		7.6	1.0
	7.3	0.7		7.7	1.1
	7.3			7.7	1.1
50	7.3			7.6	1.0
	7.3	0.7	50	7.7	1.1
	7.0	0.4		7.8	1.2
	6.9	0.3		7.7	1.1



N. 124+00 CONTD EAST 10-25-57

Dist	Sound	Elev	Dist	Sound	Elev
(66)	7.6	1.0	(66)	7.7	1.1
	7.4	0.8		7.7	
4+00	7.3	0.7	6+00	7.7	
10:50	7.2	0.6		7.7	1.1
<u>      </u>	7.2			7.6	1.0
	7.2			7.7	1.1
	7.2			7.7	
50	7.2		50	7.7	
	7.2			7.7	
	7.2			7.7	
	7.2			7.7	1.1
	7.2			7.8	1.2
5+00	7.2	0.6	7+00	7.8	
	7.3	0.7		7.8	
	7.3			7.8	1.2
	7.3			7.7	1.1
	7.3			7.6	1.0
50	7.3	0.7	50	7.7	1.1
	7.5	0.9		7.7	1.1
	7.6	1.0		7.7	1.1

N. 124+00; EAST (23)

Dist	Sound	Elev	Dist	Sound	Elev
(66)	7.6	1.0	(66)	6.8	1.2
	7.3	0.7		6.7	1.1
8+00	7.2	0.6	10+00	6.6	1.0
	7.3	0.7		6.5	0.9
	7.4	0.8		6.5	0.9
	7.4	0.8		6.5	0.9
	7.2	0.6		6.4	0.8
50	7.0	0.4	50	6.3	0.7
	7.0			6.3	
	7.0			6.3	
	7.0			6.3	
	7.0	0.4		6.3	0.7
9+00	7.1	0.5	11+00	6.4	0.8
	7.2	0.6		6.5	0.9
	7.1	0.5		6.5	0.9
	7.0	0.4		6.5	0.9
	7.0			6.4	0.8
50	7.0		50	6.4	
	7.0	0.4		6.4	
	6.9	0.3		6.4	0.8

N.124+00 CONTD EAST 10-25-57

Dist	Sound	Elev	Dist	Sound	Elev
(6.6)	6.5	+0.1	(6.6)	8.7	2.1
<u>10153</u>	6.5	+0.1		8.2	1.6
12+00	6.6	0.0	14+00	7.6	1.0
	6.6	0.0		7.2	0.6
	6.7	0.1		6.9	0.3
	6.8	0.2		6.6	0.0
	6.9	0.3		6.5	+0.1
50	6.9	0.3	50	6.3	+0.3
	7.0	0.4		6.2	+0.1
	7.1	0.5		6.1	+0.1
	7.1	0.5		6.1	+0.1
	7.6	1.0		6.0	+0.6
13+00	7.5	0.9 x	15+00	6.0	+0.6
	8.2	1.6		6.0	+0.6
	8.2	1.6		5.9	+0.7
	8.4	1.8		5.9	+
	8.5	1.9		5.9	+
50	8.8	2.2	50	5.9	+
	8.8	2.2		5.9	+
	8.8	2.2		5.9	+0.7

N.124+00 EAST

Dist	Sound	Elev	Dist	Sound	Elev
(6.6)	5.9	+0.7	(6.5)	5.7	+0.8
	5.9	+0.7		5.6	+0.9
16+00	5.9	+0.7	18+00	5.4	+1.1 x
	5.8	+0.8		5.2	+1.3
	5.8	+		5.3	+1.2
	5.8	+		5.3	+1.2
	5.8	+		5.3	+1.2
50	5.8	+0.8	50	5.4	+1.1
	5.7	+0.9		6.3	+0.2
	5.8	+0.8		7.0	0.5
	5.9	+0.7		7.4	0.9
	5.9	+0.7		7.8	1.3
17+00	5.8	+0.8 x	19+00	8.0	1.5
	5.7	+0.9		8.5	2.0
	5.7			9.9	3.4
	5.7			10.9	4.4
	5.7			11.8	5.3
50	5.7		50	11.6	5.1
	5.7	+		11.4	4.9
	5.7	+0.9		8.0	1.5
				5.3	+1.2
				4.6	+1.9
			20+00	4.1	+2.4

(23)

N.124+00; SOUND WEST 10-25-57

Dist	Sound	Elev	Dist	Sound	Elev
0+00 =	W18500	P.21	2+00	7.2	0.8
(6.4)	6.5	0.1		7.0	0.6
<u>11.08</u>	6.6	0.2	(6.4)	7.1	0.7
	6.6	0.2	<u>11.10</u>	7.1	0.7
	6.7	0.3		7.5	1.1
50	6.8	0.4	50	7.6	1.2
	7.0	0.6		8.2	1.8
	7.0			10.7	4.3
	7.0			10.9	4.5
	7.0			9.5	3.1
1+00	7.0	x	3+00	7.6	1.2
	7.0			7.5	1.1
	7.0	0.6		7.4	1.0
	7.1	0.7		7.3	0.9
	7.1			7.2	0.8
50	7.1		50	7.1	0.7
	7.1		50	6.9	0.5
	7.1			6.9	0.5
	7.1			6.9	0.5
	7.1	0.7		6.8	0.4

N.124+00; WEST

Dist	Sound	Elev	Dist	Sound	Elev
(6.4)			(6.3)	5.8	+0.5
4+00	6.7	0.3	6+00	5.9	+0.4
	6.6	0.2		5.7	+0.6
	6.5	0.1		5.9	+0.4
	6.5	0.1		5.8	+0.5
	6.4	0.0		5.9	+0.4
50	6.3	+0.1	50	6.2	+0.1
	6.2	+0.2		6.3	0.0
	6.2	+0.2		6.4	0.1
	6.3	+0.1		6.4	
	6.4	0.0	<u>11.15</u>	6.4	
5+00	6.5	0.1x	7+00	6.4	0.1x
	6.6	0.2		6.3	0.0
	6.6	0.2		6.3	0.0
	6.6	0.2		6.2	+0.1
	6.5	0.1		6.2	
50	6.5	0.1	50	6.2	
	6.4	0.0		6.2	
	6.1	+0.3		6.2	
	6.0	+0.4		6.2	+0.1

(24)

N. 124+00 CONTD WEST 10-25-57

Dist	Sound	Elev	Dist	Sound	Elev
(6.3)	6.2	+0.1	(6.3)	6.2	+0.1
8+00	6.1	+0.2	10+00	6.2	+0.1
	6.0	+0.3		6.9	0.6
	6.0			6.2	+0.1
	6.0			6.2	+0.1
	6.0	+0.3		6.1	+0.1
50	6.2	+0.1	50	6.0	+0.3
	6.3	0.0		6.0	+0.3
	6.2	+0.1		6.3	0.0
	6.1	+0.2		5.9	+0.1
	6.0	+0.3		5.7	+0.6
9+00	5.9	+0.4	11+00	5.6	+0.7
	5.9	+0.4		5.4	+0.9
	6.0	+0.3		5.3	+1.0
	6.0	+0.3		5.3	
	6.0	+		5.3	
50	6.2	+0.1	50	5.3	
	6.2	+0.1		5.3	+1.0
	6.2	+0.1		5.4	+0.9
	6.1	+0.2		5.5	+0.8

N. 124+00 WEST

Dist	Sound	Elev	Dist	Sound	Elev
(6.2)	5.6	+0.6	(6.2)	15.2	9.0
12+00	5.5	+0.7	14+00	15.0	8.8
	5.6	+0.6		14.3	8.1
<u>11.18</u>	6.0	+0.2		14.2	8.0
	6.8	2.6	<u>11.20</u>	14.1	7.9
	9.3	3.1		13.4	7.2
50	13.2	7.0	50	11.9	5.7
	14.1	7.9		10.4	4.2
	14.3	8.1		9.1	2.9
	14.3	8.1		7.0	0.8
	14.3	8.1		5.5	+0.7
13+00	14.4	8.2	15+00	4.6	+1.6
	14.5	8.3		3.8	+2.4
	14.5	8.3		3.3	+3.9
	14.6	8.4		2.6	+3.6
	14.8	8.6		1.4	+4.8
50	15.0	8.8 x	50		
	14.9	8.7			
	15.2	9.0			
	15.2	9.0			

(25)

10-25-57

N. 123+00; 0+00 = W. 18,500; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	6.5	0.4	(61)	6.0	+0.1
(61)	6.5		2+00	6.0	
<u>11:30</u>	6.5			6.0	
	6.5	0.4		6.0	
	7.0	0.9		6.3	
50	6.5	0.4		6.0	
	6.5	0.4	50	6.0	
	7.0	0.9		6.0	
	6.5	0.4		6.0	
	6.5	0.4		6.0	
1+00	6.8	0.7		6.0	
	6.3	0.2	3+00	6.0	
	6.5	0.4		6.0	
	6.3	0.2		6.0	
	6.3	0.2		6.0	
50	6.5	0.4		6.0	+0.1
	6.2	0.1	50	6.2	0.1
	6.2	0.1		6.3	0.2
	6.2	0.1		6.6	0.5

N. 123+00; E. A57

Dist	Sound	Elev	Dist	Sound	Elev
(60)	6.6	0.6	(60)	6.0	0.0
	6.4	0.4		6.0	
4+00	6.3	0.3	6+00	6.0	
	6.1	0.1		6.0	
<u>11:35</u>	6.2	0.2		6.0	
	6.0	0.0		6.0	
	6.1	0.1		6.0	
50	6.0	0.0	50	6.0	
	6.0			6.0	0.0
	6.0			5.8	+0.2
	6.0			5.8	
	6.0	0.0		5.8	
5+00	6.1	0.1	7+00	5.8	
	6.0	0.0		5.8	
	6.0			5.8	
	6.0			5.8	
	6.0			5.8	
50	6.0			5.8	
	6.0		50	6.0	
	6.0			5.8	
	6.0			5.8	
	6.0	0.0		5.8	+0.2

(26)

N.123+00 CONTDEAST 10-25-57

Dist	Sound	Elev	Dist	Sound	Elev
(60)	5.9	+0.1	(59)	6.0	0.1
	5.9		<u>1140</u>	6.0	
8+00	5.9		10+00	6.0	
	5.9			6.0	0.1
	5.9			6.2	0.3
	5.9			6.2	0.3
	5.9			6.2	0.3
50	5.9	+0.1	50	6.9	1.0
	6.0	0.0		6.5	0.6
	6.0	0.0		6.5	
	6.0	0.0		6.5	
	5.7	+0.3		6.5	
9+00	5.7		11+00	6.5	0.6
	5.7			6.1	0.2
	5.7	+0.3		6.0	0.1
	5.8	+0.2		6.0	0.1
	5.8	+0.2		6.1	0.2
50	5.8	+0.2	50	6.1	0.2
	6.0	0.0		6.0	0.1
	6.0	0.0		5.8	+0.1

N.123+00; EAST (2)

Dist	Sound	Elev	Dist	Sound	Elev
(59)	5.8	+0.1	(59)	5.0	+0.9
	5.8	+0.1		5.0	
12+00	5.8	+0.1	14+00	5.0	
	5.6	+0.3		5.0	
	5.7	+0.2		5.0	
	5.5	+0.4		5.0	
	5.8	+0.1	<u>1143</u>	5.0	
50	5.7	+0.2	50	5.0	
	5.2	+0.7		5.0	
	5.2			5.0	
	5.2			5.0	
	5.2	+		5.0	
13+00	5.2	+0.7	15+00	5.0	
	5.5	+0.4		5.0	
	5.0	+0.9		5.0	
	5.0	+0.9		5.0	
	5.2	+0.7		5.0	
50	5.2	+0.7	50	5.0	
	5.0	+0.9		5.0	
	5.0	+0.9		5.0	+0.9

N. 123+00 CONTO EAST 10-25-57

Dist	Sound	Elev	Dist	Sound	Elev
(5.8)	5.0	+0.8	(5.8)	4.2	+1.6
<u>11.45</u>	4.7	+1.1		4.2	+1.6
16+00	4.8	+1.0	18+00	4.0	+1.8
	4.6	+1.2		4.2	+1.6
	4.6	+1.2		4.2	+1.6
	4.7	+1.1		4.6	+1.2
	4.6	+1.2		5.1	+0.7
50	4.5	+1.3	50	6.0	0.2
	4.5			6.3	0.5
	4.5			6.9	1.1
	4.5			7.0	1.2
	4.5			7.0	1.2
17+00	4.5		19+00	7.2	1.4
	4.5			7.8	2.0
	4.5			8.0	2.4
	4.5		<u>11.48</u>	9.2	3.4
	4.5	+1.3		9.7	3.9
50	4.2	+1.6	50	10.1	4.3
	4.2	+1.6		10.1	4.3
	4.2	+1.6		8.8	3.0
	4.2	+1.6		6.2	0.4
				4.0	+1.8
			20+00	3.7	+2.1

N. 123+00; SOUND WEST 0 (28)

Dist	Sound	Elev	Dist	Sound	Elev
0+00	= W18500	9.26	(5.6)		
(5.6)	6.0	0.4	2+00	6.0	0.4
<u>11.58</u>	6.0			6.0	0.4
	6.0		<u>12.00</u>	6.0	0.4
	6.0			6.3	0.7
50	6.0			6.3	0.7
	6.0		50	6.3	0.7
	6.0			6.1	0.5
	6.0			6.1	0.5
	6.0	0.4		6.1	0.5
1+00	6.2	0.6		6.8	1.2
	6.2	0.6	3+00	8.5	2.9
	6.0	0.4		11.7	6.1
	6.2	0.6		13.3	7.7
	6.5	0.9		13.8	8.2
50	6.0	0.4		14.0	8.4
	6.0		50	14.3	8.7
	6.0			14.4	8.8
	6.0			14.5	8.9
	6.0	0.4		14.4	8.8

N. 123+00 CONT'D WEST 10-25-57					
DIST	Sound	Elev	DIST	Sound	Elev
5.6	14.5	8.9	5.5	14.0	8.5
4+00	14.6	9.0	6+00	14.0	8.5
<u>12.03</u>	14.4	8.8	<u>12.05</u>	13.8	8.3
	14.3	8.7		13.8	8.3
	14.3	8.7		13.5	8.0
	14.3	8.7		13.3	7.8
50	14.7	9.1	50	13.4	7.9
	14.7	9.1		13.4	7.9
	14.4	8.8		13.8	8.3
	14.4	8.8		13.8	
	14.4	8.8		13.8	
5+00	14.0	8.4	7+00	13.8	
	14.0			13.8	8.3
	14.0			14.0	8.5
	14.0			14.0	
	14.0	8.4		14.0	
50	14.2	8.6	50	14.0	
	14.2	8.6		14.0	
	14.0	8.4		14.0	
	14.0	8.4		14.0	8.5

N. 123+00; WEST <span style="float: right;">(29)</span>					
DIST	Sound	Elev	DIST	Sound	Elev
5.5	14.0	8.5	5.3	13.2	7.9
8+00	14.0	8.5	10+00	14.0	8.7
	14.2	8.7	<u>12.10</u>	13.8	8.5
	14.2	8.7		13.8	
	14.2	8.7		13.8	
	14.5	9.0		13.8	
50	14.7	9.2	50	13.8	8.5
	14.5	9.0		13.5	8.2
	14.2	8.7		13.5	
	14.2	8.7		13.5	
	14.0	8.5		13.5	8.2
9+00	13.7	8.2	11+00	13.2	7.9
	13.6	8.1		13.0	7.7
	13.6	8.1		13.0	
	13.7	8.2		13.0	
	13.5	8.0		13.0	
50	13.3	7.8	50	13.0	
	13.3	7.8		13.0	7.7
	13.2	7.7		13.2	7.9
	13.2	7.7		13.6	8.3



N. 123+00 CONTD WEST 10-25-57  
Dist Sound Elev Dist Sound Elev

Dist	Sound	Elev	Dist	Sound	Elev
(52)	13.8	8.6	(52)	13.5	8.3
12+00	13.8	8.6	14+00	12.2	7.0
	13.8	8.6		11.2	6.0
	13.7	8.5		10.8	5.6
	13.7	8.5		10.0	4.8
	13.6	8.4		9.1	3.9
50	13.8	8.6	50	7.1	1.9
	13.8	8.6		6.5	1.3
	14.0	8.8		5.3	0.1
	14.0	8.8	12/15	4.3	+0.9
	14.2	9.0		3.4	+1.8
13+00	14.4	9.2	15+00	2.8	+2.4
	14.4	9.2		2.0	+3.2
	14.2	9.0		0.9	+4.3
	14.4	9.2			
	14.7	9.5			
50	15.0	9.8	50		
	15.0	9.8			
	14.9	9.7			
	14.3	9.1			

N. 126+00; 0+00 = W. 18, 500; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	5.3	0.2	(51)	5.5	0.4
(51)	5.3	0.2	2+00	5.5	
12/25	5.4	0.3		5.5	
	5.4	0.3		5.5	0.4
	5.4	0.3		5.4	0.3
50	5.5	0.4		5.4	
	5.6	0.5	50	5.4	
	5.7	0.6		5.4	0.3
	5.6	0.5		5.5	0.4
	5.5	0.4		5.5	
1+00	5.4	0.3		5.5	
	5.4		3+00	5.5	0.4
	5.4			5.6	0.5
	5.4			5.6	0.5
	5.4			5.6	0.5
50	5.4	0.3		5.5	0.4
	5.5	0.4	50	5.5	0.4
	5.6	0.5		5.5	0.4
	5.5	0.4		5.4	0.3

N. 126+00 CONTD EAST 10-25-57

Dist	Sound	Elev	Dist	Sound	Elev
(51)	5.4	0.3	(5.1)	4.9	+0.2
	5.4			4.9	
4+00	5.4		6+00	4.9	
	5.4			4.9	
	5.4			4.9	+0.2
	5.4			4.8	+0.3
	5.4			4.7	+0.4
50	5.4		50	4.6	+0.5
	5.4			4.7	+0.4
	5.4	0.3		4.7	
	5.3	0.2		4.7	
	5.2	0.1		4.7	
5+00	5.1	0.0	7+00	4.7	
	5.1	0.0		4.7	+0.4
	5.1	0.0		4.8	+0.3
	5.0	0.4		4.8	+0.3
	5.0			4.7	+0.4
50	5.0		50	4.7	+0.4
	5.0			4.6	+0.5
	5.0	0.4		4.5	+0.6

N. 126+00 EAST

Dist	Sound	Elev	Dist	Sound	Elev
(5.0)	4.4	+0.6	(5.0)	4.6	+0.4
	4.3	+0.7		4.6	
8+00	4.4	+0.6	10+00	4.6	
	4.5	+0.5		4.6	
	4.5			4.6	
	4.3	+		4.6	
	4.5	+0.5		4.6	
50	4.6	+0.4	50	4.6	
	4.9	+0.1		4.6	+0.4
	4.9	+0.1		4.5	+0.5
	5.0	0.0		4.4	+0.6
	5.0	0.0		4.3	+0.7
9+00	4.9	+0.1	11+00	4.3	+0.7
	4.8	+0.2		4.2	+0.8
	4.7	+0.3		4.2	
	4.7	+0.3		4.2	
	4.6	+0.4		4.2	
50	4.6		50	4.2	+0.8
	4.6	+		4.1	+0.9
	4.6	+0.4		4.1	+0.9

N. 126+00 CONTD EAST 10-25-57

Dist	Sound	Elev	Dist	Sound	Elev
(50)	4.1	40.9	(5.0)	3.9	+1.1
<u>12:30</u>	4.1			4.0	+1.0
12+00	4.1		14+00	4.1	+0.9
	4.1			4.0	+1.0
	4.1			4.0	
	4.1	+0.9		4.0	
	4.0	+1.0		4.0	+1.0
50	4.0	+1.0	50	4.2	+0.8
	3.9	+1.1		4.8	+0.2
	3.9	+1.1		4.8	+0.2
	3.9	+1.1		4.9	+0.1
	3.8	+1.2		5.0	0.0
13+00	3.8		15+00	5.0	0.0
	3.8			5.1	0.1
	3.8	+1.2		5.2	0.0
	3.9	+1.1		5.1	0.1
	3.9	+1.1		5.0	0.0
50	4.0	+1.0	50	5.0	
	3.9	+1.1		5.0	
	3.9	+1.1		5.0	0.0

(32)

N. 126+00; EAST					
Dist	Sound	Elev	Dist	Sound	Elev
(4.9)	5.2	0.3	(4.8)	6.6	1.8
	5.3	0.4	<u>12:35</u>	6.6	1.8
	5.4	0.5	16+00	6.7	1.9
	5.3	0.4		6.9	2.1
	5.3	0.4		6.7	1.9
	5.3	0.4		6.3	1.5
	5.4	0.5		5.8	1.0
50	5.5	0.6	50	5.5	0.7
	5.5			4.9	0.1
	5.5			4.3	+0.5
	5.5	0.6		4.0	+0.8
	5.6	0.7		3.8	+1.0
	6.0	1.1	17+00	3.4	+1.4
	6.2	1.3		3.4	+1.4
	6.3	1.4		3.3	+1.5
	6.3	1.4		3.0	+1.8
	6.0	1.1		2.6	+2.2
50	6.4	1.5	50	2.2	+2.6
	6.5	1.6		2.2	+2.6
	6.5	1.6		2.2	+2.6
	6.5	1.6		2.0	+2.8
				1.5	+3.3
				1.0	+3.8
			20+00		

N. 126+00; SOUND WEST 10-25-57  
 DIST Sound Elev Dist Sound Elev

0+00 = W18500 P.30

DIST	SOUND	ELEV	DIST	SOUND	ELEV
(4.6)	5.0	0.4	2+00	5.8	1.2
<u>12:25</u>	5.0	0.4	(4.6)	7.0	2.4
	5.0	0.4		8.5	3.9
	5.1	0.5		6.6	2.0
50	5.1	0.5		6.0	1.4
	5.2	0.6	50	6.0	1.4
	5.2	0.6		5.9	1.3
	5.1	0.5		5.5	0.9
	5.1	0.5		5.3	0.7
1+00	5.2	0.6		5.4	0.8
	5.2		3+00	5.4	
	5.2			5.4	
	5.2			5.4	
	5.2	0.6		5.4	
50	5.3	0.7		5.4	
	5.3	0.7	50	5.4	0.8
	5.4	0.8		5.3	0.7
	5.5	0.9		5.3	0.7
	5.7	1.1		5.2	0.6

N. 126+00; SOUND WEST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
(4.6)	5.1	0.5	(4.3)	5.3	0.8
4+00	5.0	0.4	6+00	4.8	0.3
	4.9	0.3	<u>12:50</u>	4.7	0.2
	4.8	0.2		4.6	0.1
	4.9	0.3		4.6	0.1
	5.0	0.4		4.7	0.2
50	5.1	0.5	50	4.8	0.3
	5.0	0.4		4.8	
	5.0	0.4		4.8	
	5.0	0.4		4.8	
	5.2	0.6		4.8	
5+00	5.1	0.5	7+00	4.8	0.3
	5.0	0.4		4.7	0.2
	4.9	0.3		4.3	+0.2
	4.9	0.3		4.4	+0.1
	4.9	0.3		4.7	0.2
50	4.8	0.2	50	4.7	0.2
	5.2	0.6		4.8	0.3
	5.1	0.5		4.7	0.2
	5.0	0.4		4.5	0.0

N. 126+00 CONTD			WEST 10-25-57			N. 126+00; WEST			(30)		
Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev
(45)	4.6	0.1	(44)	4.5	0.1	(44)	4.2	+0.2	(44)	1.2.3	7.9
8+00	4.6	0.1	10+00	4.4	0.0	12+00	4.2	+0.2	14+00	12.4	8.0
	4.6	0.1	<u>1253</u>	4.4	0.0		4.3	+0.1		12.7	8.3
	4.5	0.0		4.5	0.1	<u>1255</u>	4.2	+0.2		12.9	8.5
	4.4	+0.1		4.5	0.1		4.1	+0.3		13.0	8.6
	4.4	+0.1		4.6	0.6		3.8	+0.6		13.2	8.8
50	4.4	+0.1	50	4.6	0.3	50	3.6	+0.8	50	13.5	9.1
	4.5	0.0		4.5	0.1		3.3	+1.1		13.4	9.0
	4.4	+0.1		4.3	+0.1		3.0	+1.4		13.2	8.8
	4.5	0.0		4.3	+0.1		2.5	+1.9		13.0	8.6
	4.6	0.1		4.3	+0.1		2.6	+1.8		12.7	8.3
9+00	4.7	0.2*	11+00	4.2	+0.1	13+00	2.5	+1.9	15+00	12.7	8.3
	4.4	+0.1		4.2			2.6	+1.8		12.6	8.2
	4.5	0.0		4.2			3.2	+1.2		12.3	7.9
	4.6	0.1		4.2			3.8	+0.6		11.0	6.6
	4.6	0.1		4.2	+0.1		5.8	1.4		9.5	5.1
50	4.5	0.0	50	4.3	+0.1	50	9.4	5.0	50	7.9	3.5
	4.4	+0.1		4.3	+0.1		11.2	6.8		6.3	1.9
	4.5	0.0		4.3	+0.1		12.0	7.6		6.1	1.7
	4.6	0.1		4.2	+0.1		12.2	7.8	16+00	5.9	1.5
										5.2	0.8
									16+30	3.4	+1.0
										2.4	+2.9
										2.4	+3.1

10-28-57  
 N. 128+00; 0+00 = W. 18, 500; SOUND EAST

DIST	Sound	Elev	DIST	Sound	Elev
0+00	5.5	0.7	(4.8)	5.5	0.7
10:12	5.7	0.9	2+00	5.5	
(4.8)	5.8	1.0		5.5	
	5.9	1.1		5.5	
	5.9	1.1		5.5	
50	5.8	1.0		5.5	
	5.6	0.8	50	5.5	0.7
	5.7	0.9		5.4	0.6
	5.7	0.9		5.3	0.5
	5.8	1.0		5.3	0.5
1+00	5.7	0.9		5.4	0.6
	5.6	0.8	3+00	5.5	0.7
	5.7	0.9		5.6	0.8
	5.7	0.9		5.7	0.9
	5.3	0.5		5.6	0.8
50	5.4	0.6		5.6	0.8
	5.3	0.5	50	5.6	0.8
	5.3	0.5		5.7	0.9
	5.5	0.7		5.6	0.8

(35)

N. 128+00; EAST			Dist Sound Elev		
DIST	Sound	Elev	DIST	Sound	Elev
(4.8)	5.5	0.7	(4.8)	5.2	0.4
	5.3	0.5		5.2	
4+00	5.3		6+00	5.2	
10:15	5.3			5.2	
	5.3	0.5		5.2	
	5.4	0.6		5.2	0.4
	5.5	0.7		5.1	0.3
50	5.5	0.7	50	5.0	0.2
	5.4	0.6		5.0	
	5.4			5.0	
	5.4			5.0	
	5.4			5.0	
5+00	5.4		7+00	5.0	
	5.4			5.0	0.2
	5.4	0.6		4.9	0.1
	5.3	0.5		4.9	0.1
	5.3	0.5		4.8	0.0
50	5.2	0.4	50	4.8	0.0
	5.2	0.4		4.8	0.0
	5.2	0.4		4.8	0.0

N.128+00 CONTD EAST 10-28-57

DIST	Sound	Elev	DIST	Sound	Elev
(48)	4.8	0.0	(49)	4.8	+0.1
	4.8			4.9	0.0
8+00	4.8		10+00	4.8	+0.1
	4.8		<u>10:20</u>	4.8	
	4.8			4.8	
	4.8			4.8	
	4.8			4.8	
50	4.8		50	4.8	+0.1
	4.8			4.7	+0.2
	4.8			4.6	+0.3
	4.8	0.0		4.5	+0.4
	4.7	+0.1		4.4	+0.5
9+00	4.7		11+00	4.4	
	4.7			4.4	
	4.7			4.4	
	4.7	+0.1		4.4	+0.5
	4.6	+0.2		4.3	+0.6
50	4.8	0.0	50	4.3	
	4.8	0.0		4.3	
	4.8	0.0		4.3	+0.6

N.128+00 EAST (36)

DIST	Sound	Elev	DIST	Sound	Elev
(49)	4.2	+0.7	(49)	4.3	+0.6
	4.2	+0.7		4.5	+0.4
12+00	4.3	+0.6	14+00	4.6	+0.3
	4.3	+0.6	<u>10:24</u>	4.8	+0.1
	4.2	+0.7		5.0	0.1
	4.2			5.3	0.4
	4.2			5.7	0.8
50	4.2		50	6.1	1.2 ✓
	4.2			6.0	1.1
	4.2			6.0	1.1
	4.2			5.0	0.1
	4.2			5.0	0.1
13+00	4.2		15+00	4.4	+0.5
	4.2			4.1	+0.8
	4.2	+0.7		4.1	+0.8
	4.3	+0.6		4.1	+0.8
	4.3			4.0	+0.9
50	4.3		50	4.0	+0.9
	4.3			4.0	+0.9
	4.3	+0.6		4.1	+0.8

N. 128+00 CONTD EAST 10-28-57

Dist	Sound	Elev	Dist	Sound	Elev
(5.0)	4.1	+0.9	(5.0)	6.9	1.9
	4.1	+0.9		6.1	1.1
16+00	4.1	+0.9	18+00	5.0	0.0
10:27	4.0	+1.0		3.9	+1.1
	4.0	+1.0		3.3	+1.7
	4.0	+1.0		3.0	+2.0
	3.9	+1.1		2.9	+2.1
50	3.9	+1.1	50	2.5	+2.5
	4.0	+1.0		2.5	+2.5
	4.0	+1.0		2.4	+2.6
	3.9	+1.1		2.1	+2.9
	3.8	+1.2		1.6	+3.4
17+00	3.8	+1.2	19+00	1.2	+3.8
	3.8	+1.2		0.8	+4.2
	4.1	+0.9		0.7	+4.3
	5.0	0.0			
	5.9	0.9			
50	6.5	1.5	50		
	6.8	1.8			
	7.0	2.0			

N. 128+00; SOUND WEST (57)

Dist	Sound	Elev	Dist	Sound	Elev
0+00			2+00	6.7	1.7
10:40	6.0	1.0	(5.0)	6.5	1.5
(5.0)	6.1	1.1		6.5	1.5
	6.1			6.4	1.4
	6.1			6.4	
50	6.1	1.1	50	6.4	
	6.3	1.3		6.4	
	6.7	1.7		6.4	1.4
	6.3	1.3		6.3	1.3
	6.5	1.5		6.4	1.4
1+00	6.4	1.4	3+00	6.5	1.5
	6.4	1.4		6.4	1.4
	6.3	1.3		6.3	1.3
	6.4	1.4		6.2	1.2
	6.6	1.6		6.2	
50	6.6	1.6	50	6.2	
	6.3	1.3		6.2	
	6.4	1.4		6.2	
	6.7	1.7		6.2	
	6.7	1.7		6.2	1.2



N. 128+00 CONT'D WEST

N. 128+00; WEST

Dist	Sound	Elev	Dist	Sound	Elev
4+00	6.2	1.2	6+00	5.7	0.7
10:44	6.1	1.1	(50)	5.3	0.3
(50)	6.0	1.0		5.4	0.4
	6.1	1.1		5.4	0.4
	6.1	1.1		5.4	0.4
50	6.1	1.1	50	5.3	0.3
	6.2	1.2		5.4	0.4
	6.2	1.2		5.4	0.4
	6.1	1.1		5.4	0.4
	6.1	1.1		5.5	0.5
5+00	6.1	1.1	7+00	5.4	0.4
	6.0	1.0		5.3	0.3
	6.0	1.0		5.3	
	5.8	0.8		5.3	
	5.9	0.9		5.3	0.3
50	5.9	0.9	50	5.4	0.4
	5.8	0.8		5.5	0.5
	5.8	0.8		5.4	0.4
	5.7	0.7		5.4	0.4
	5.7	0.7		5.4	0.4

Dist	Sound	Elev	Dist	Sound	Elev
8+00	5.4	0.4	10+00	5.2	0.1
10:47	5.4	0.4	(5.1)	5.2	0.1
	5.4	0.4		5.3	0.2
(50)	5.3	0.3		5.3	0.2
	5.3			5.3	0.2
50	5.3		50	5.2	0.1
	5.3			5.2	
	5.3			5.2	
	5.3	0.3		5.2	
	5.2	0.2		5.2	0.1
9+00	5.2		11+00	5.1	0.0
	5.2			5.1	
	5.2	0.2		5.1	
	5.3	0.3		5.1	0.0
	5.3			5.0	+0.1
50	5.3		50	5.1	0.0
	5.3	0.3		5.2	0.1
	5.2	0.2		5.3	0.2
	5.2	0.2		5.3	0.2
	5.2	0.2		5.2	0.1

N. 128+00 CONTD WEST

N. 128+00; WEST

Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev
12+00	5.2	+0.1	14+00	5.0	+0.1	16+00	12.3	7.2
10:50	5.2	+0.1	(51)	6.8	1.7	10:54	10.4	5.3
(51)	5.3	+0.2		10.9	5.8	(51)	9.8	4.7
	5.2	+0.1		12.2	7.1		9.4	4.3
	5.2	+0.1		12.7	7.6		9.3	4.2
50	5.1	0.0	50	13.0	7.9	50	8.6	3.5
	5.1			13.3	8.2		8.1	3.0
	5.1			13.3	8.2		6.4	1.3
	5.1			13.4	8.3		4.3	+0.8
	5.1			13.4			3.5	+1.6
13+00	5.1		15+00	13.4		17+00	2.8	+2.3
	5.1			13.4	8.3		2.0	+3.1
	5.1			13.6	8.5			
0.0	5.1	0.0		13.6	8.5			
	5.0	+0.1		13.5	8.4			
50	5.0		50	13.4	8.3			
	5.0			13.0	7.9			
	5.0			12.9	7.8			
	5.0			12.9	7.8			
	5.0	+0.1		12.8	7.7			

10-28-57  
W. 188+00; 0+00 = N. 12,400; SOUND SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00			(44)	13.1	8.7
9:18	5.8	1.4	2+00	13.2	8.8
(4.4)	6.3	1.9		13.1	8.7
	6.7	2.3		13.0	8.6
	7.0	2.6		13.0	8.6
50	9.2	4.8		13.0	8.6
	10.0	5.6	50	12.8	8.4
	10.0	5.6		12.8	8.4
	8.5	4.1		12.7	8.3
	7.4	3.0		12.7	
1+00	9.4	5.0		12.7	
	11.0	6.6	3+00	12.7	8.3
	12.0	7.6			
	12.6	8.2			
	12.9	8.5			
50	12.9	8.5			
	13.1	8.7			
	13.1	8.7			
9:20	13.1	8.7			

10-28-57 (20)  
W. 189+00; 0+00 = N. 12,400; SOUND SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00				12.1	7.6
9:25	4.6	0.2		13.3	8.9
(4.4)	4.6	0.2		13.5	9.1
	5.1	0.7		13.5	9.1
	6.2	1.8	1+00	13.5	9.1
50	8.7	4.3			

W. 190+00; 0+00 = N. 12,400; SOUND SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00				12.6	8.1
9:27	4.6	0.1		13.3	8.8
(4.5)	4.7	0.2		13.4	8.9
	5.0	0.5		13.4	8.9
	6.2	1.7	1+00	13.3	8.8
50	9.8	5.3			

W. 191+00; 0+00 = N. 12,400; SOUND SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00				10.6	6.0
9:43	4.1	+0.5		12.3	7.7
(4.6)	4.2	+0.4		12.8	8.2
	4.6	0.0		13.0	8.4
	5.5	0.9	1+00	13.0	8.4
50	7.3	2.7			

10-28-57

W192+00; 0+00=N.12,400; SOUND SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00			12.2		7.6
9:47	4.3	+0.3	12.6		8.0
(4.6)	4.3	+0.3	12.9		8.3
	4.4	+0.2	13.0		8.4
	6.4	1.8	1+00	13.0	8.4
50	9.1	4.5			

W.193+00; 0+00=N.12,400; SOUND SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00			11.5		6.9
9:50	4.1	+0.5	12.9		8.3
(4.6)	4.1	+0.5	13.1		8.5
	4.5	+0.1	13.3		8.7
	5.8	1.2	1+00	13.4	8.8
50	8.5	3.9			

W194+00; 0+00=N.12,400; SOUND SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00			11.3		6.6
9:53	4.2	+0.5	12.6		7.9
(4.7)	4.3	+0.4	12.9		8.2
	4.5	+0.2	13.1		8.4
	5.3	0.6	1+00	13.1	8.4
50	9.0	4.3			

10-28-57

W.195+00; 0+00=N.12,400; SOUND SOUTH (4)

Dist	Sound	Elev	Dist	Sound	Elev
0+00			11.4		6.7
9:57	4.7	0.0	12.9		8.2
(4.7)	5.0	0.3	13.0		8.3
	5.0	0.3	13.2		8.5
	5.7	1.0	1+00	13.2	8.5
50	9.0	4.3			

W.196+00; 0+00=N.12,400; SOUND SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00			10.9		6.2
10:01	4.0	+0.7	11.5		6.8
(4.7)	4.0	+0.7	12.0		6.3
	4.1	+0.6	12.2		7.5
	5.3	0.6	1+00	12.5	7.8
50	8.3	3.6			

W.197+00; 0+00=N.12,400; SOUND SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00			12.4		7.6
10:04	4.0	+0.8	12.7		7.9
(4.8)	4.8	0.0	12.9		8.1
	7.3	2.5	13.0		8.2
	10.5	5.7	1+00	13.0	8.2
50	12.0	7.2			

10-28-57

N. 130+00; 0+00 = W. 18,500; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	6.1	0.9	(5.2)	6.4	1.2
11:10	6.2	1.0	2+00	6.4	
	6.3	1.1		6.4	
(5.2)	6.4	1.2		6.4	
	6.4	1.2		6.4	
50	6.3	1.1		6.4	
	6.3	1.1	50	6.4	
	6.3	1.1		6.4	1.2
	6.4	1.2		6.5	1.3
	6.5	1.3		6.5	1.3
1+00	6.6	1.4		6.5	1.3
	6.5	1.3	3+00	6.6	1.4
	6.6	1.4		6.6	1.4
	6.6	1.4		6.5	1.3
	6.5	1.3		6.5	1.3
50	6.5	1.3		6.5	1.3
	6.4	1.2	50	6.3	1.1
	6.4	1.2		6.2	1.0
	6.4	1.2		6.1	0.9

N. 130+00, EAST

Dist Sound Elev Dist Sound Elev

Dist	Sound	Elev	Dist	Sound	Elev
(5.2)	6.1	0.9	(5.2)	6.0	0.8
	6.1	0.9		6.0	0.8
4+00	6.2	1.0	6+00	6.0	0.8
11:15	6.3	1.1		6.1	0.9
	6.3	1.1		6.1	
	6.2	1.0		6.1	
	6.1	0.9		6.1	0.9
50	6.1	0.9	50	6.0	0.8
	6.0	0.8		5.9	0.7
	6.0			5.9	0.7
	6.0			5.8	0.6
	6.0	0.8		5.8	
5+00	6.1	0.9	7+00	5.8	
	6.1	0.9		5.8	
	6.1	0.9		5.8	
	6.0	0.8		5.8	
	6.0			5.8	0.6
50	6.0		50	5.7	0.5
	6.0			5.6	0.4
	6.0	0.8		5.5	0.3

(42)

N. 130+00 CONTD EAST 10-28-57

Dist	Sound	Elev	Dist	Sound	Elev
(52)	5.5	0.3	(52)	5.2	0.0
	5.5			5.2	0.0
8+00	5.5		10+00	5.1	+0.1
<u>11:17</u>	5.5			5.1	
	5.5	0.3		5.1	
	5.4	0.2		5.1	
	5.3	0.1		5.1	+0.1
50	5.3	0.1	50	5.0	+0.2
	5.3	0.1		5.0	+0.2
	5.4	0.2		5.0	
	5.4			5.0	
	5.4			5.0	
9+00	5.4		11+00	5.0	+0.2
	5.4	0.2		5.1	+0.1
	5.3	0.1		5.2	0.0
	5.2	0.0		5.2	0.0
	5.2			5.2	
50	5.2		50	5.2	
	5.2			5.2	
	5.2	0.0		5.2	0.0

N. 130+00 EAST T (43)

Dist	Sound	Elev	Dist	Sound	Elev
(52)	5.3	0.1	(52)	4.7	+0.5
	5.5	0.3		4.7	+0.5
12+00	5.5	0.3	14+00	4.6	+0.6
<u>11:20</u>	5.5	0.3		4.6	+0.6
	5.4	0.2		4.7	+0.5
	5.3	0.1		4.7	+0.5
	5.2	0.0		4.7	+0.5
50	5.0	+0.2	50	4.8	+0.4
	5.0	+0.2		4.8	+0.4
	4.9	+0.3		5.0	+0.2
	4.8	+0.4		5.0	
	4.8	+0.4		5.0	
13+00	4.9	+0.3	15+00	5.0	+0.2
	4.8	+0.4		4.9	+0.3
	4.9	+0.3		4.9	
	4.9	+0.3		4.9	
	4.8	+0.4		4.9	
50	4.8		50	4.9	+0.3
	4.8			4.8	+0.4
	4.8	+0.4		4.8	+0.4

N 130+00 CONT EAST

Dist	Sound	Elev	Dist	Sound	Elev
(5.2)	4.8	+0.4	(5.2)	3.9	+1.3
	4.7	+0.5		3.3	+1.9
16+00	4.8	+0.4	18+00	3.2	+2.0
11:22	4.8	}		3.0	+2.2
	4.8			2.7	+2.5
	4.8		+0.4		2.3
	4.7	+0.5		2.0	+3.2
50	4.7	}	50	1.8	+3.4
	4.7				1.3
	4.7	+0.5			
	4.6	+0.6			
17+00	5.9	0.7-			
	6.4	1.2			
	6.9	1.7			
	7.2	2.0			
	7.5	2.3			
50	7.0	1.8			
	6.5	1.3			
	5.0	+0.2			

10-28-57 Sound West (44)

N 130+00 0+00 - W 13,500

Dist	Sound	Elev	Dist	Sound	Elev
			(5.3)	7.0	1.7
0+00					
11:32	6.6	1.3	2+00	7.0	1.7
	6.7	1.4		6.9	1.6
(5.3)	6.7	1.4		6.8	1.5
	6.8	1.5		6.9	1.6
50	6.9	1.6		6.8	1.5
	6.9	1.6	50	6.6	1.3
	6.9	1.6	11:35	6.5	1.2
	7.0	1.7		6.8	1.5
	7.0	1.7		6.7	1.4
1+00	7.0	1.7		6.7	
	6.8	1.5	3+00	6.7	
	6.9	1.6		6.7	1.4
	7.0	1.7		6.8	1.5
	7.0	1.7		6.7	1.4
50	7.0	1.7		6.7	1.4
	6.9	1.6	50	6.8	1.5
	7.0	1.7		6.7	1.4
	7.1	1.8		6.5	1.2

N 130+00			CONT West		
Dist	Sound	Elev	Dist	Sound	Elev
(5.3)	6.6	1.3	(5.3)	6.3	1.0
	6.5	1.2		6.2	0.9
4+00	6.4	1.1	6+00	6.1	0.8
<u>11:37</u>	6.3	1.0		6.1	
	6.2	0.9		6.1	
	6.1	0.8		6.1	
	6.1	0.8		6.1	
50	6.1	0.8	50	6.1	
	6.2	0.9		6.1	0.8
	6.1	0.8		6.0	0.7
	6.0	0.7		6.0	
	6.2	0.9		6.0	
5+00	6.2		7+00	6.0	
	6.2			6.0	
	6.2	0.9		6.0	
	6.1	0.8		6.0	
	6.0	0.7		6.0	
50	6.1	0.8	50	6.0	
	6.1	0.8		6.0	
	6.2	0.9		6.0	0.7

N 130+00			WEST 10-28-57 (45)		
Dist	Sound	Elev	Dist	Sound	Elev
(5.3)	6.0	0.7	(5.3)	5.7	0.4
	6.0	0.7		5.7	
8+00	6.0	0.7	10+00	5.7	
<u>11:40</u>	5.9	0.6		5.7	
	5.9			5.7	
	5.9			5.7	
	5.9			5.7	
50	5.9		50	5.7	0.4
	5.9	0.6		5.6	0.3
	5.8	0.5		5.6	0.3
	5.7	0.4		5.5	0.2
	5.4	0.1		5.5	
9+00	5.4	0.1	11+00	5.5	
	5.7	0.4		5.5	
	5.7	0.4		5.5	
	5.6	0.3		5.5	
	5.6	0.3		5.5	0.2
50	5.6	0.3	50	5.4	0.1
	5.7	0.4		5.4	0.1
	5.7	0.4		5.4	0.1



N130+00			Cont West		
Dist	Sound	Elev	Dist	Sound	Elev
(5.3)	5.4	0.1	(5.3)	5.4	0.1
	5.4			5.3	0.0
12+00	5.4		14+00	5.2	+0.1
11.44	5.4	0.1		5.0	+0.3
	5.3	0.0		4.9	+0.1
	5.3	0.0		5.0	+0.3
	5.4	0.1		5.5	0.2
50	5.5	0.2	50	7.0	1.7
	5.4	0.1		8.9	3.6
	5.3	0.0		10.1	4.8
	5.3			12.4	7.1
	5.3			12.4	7.1
13+00	5.3		15+00	13.2	7.9
	5.3	0.0		13.4	8.1
	5.4	0.1		13.5	8.2
	5.4			13.6	8.3
	5.4			13.8	8.5
50	5.4		50	13.9	8.6
	5.4			14.0	8.7
	5.4	0.1		14.1	8.8

N130+00 WEST			10-28-57		
Dist	Sound	Elev	Dist	Sound	Elev
(5.3)	14.1	8.8	(5.3)	2.8	+2.5
	13.9	8.6		2.0	+3.3
16+00	13.6	8.3	18+00		
11.47	13.7	8.4	RECHECK, MB-107		
	13.4	8.1	6-16-59		
	13.5	8.2			
	13.8	8.5			
50	13.3	8.0	50		
	13.1	7.8			
	12.9	7.6			185.00
	12.2	6.9			1.770
	11.1	5.8			<del>20,270</del>
17+00	10.0	4.7			
	9.0	3.7			
	8.2	2.9			
	7.5	2.2			
	6.4	1.1			
50	5.2	+0.1			
	4.1	+1.2			
	3.4	+1.9			

10-28-57  
 N.132+00; 0+00 = W.18,500; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	7.0	1.9	(5.1)	6.8	1.7
(5.1)	7.0	}	2+00	6.8	1.7
<u>11.45</u>	7.0			6.7	1.6
	7.0	1.9		6.6	1.5
	7.1	2.0		6.6	1.5
50	7.1	}		6.7	1.6
	7.1		50	7.0	1.9
	7.1	2.0		6.8	1.7
	7.0	1.9		6.7	1.6
	7.0	1.9		6.7	1.6
1+00	7.0	1.9		6.8	1.7
	6.9	1.8	3+00	6.6	1.5
	7.0	1.9		6.8	1.7
	6.9	1.8		6.9	1.8
	6.9	1.8		6.9	}
50	6.9	1.8		6.9	
	6.8	1.7	50	6.9	1.8
	6.8	1.7		6.8	1.7
	6.8	1.7		6.7	1.6

N.132+00; EAST (27)

Dist	Sound	Elev	Dist	Sound	Elev
(5.0)	6.7	1.7	(5.0)	5.8	0.8
	6.7	1.7	<u>11.50</u>	5.9	0.9
4+00	6.7	1.7	6+00	5.8	0.8
	7.0	2.0		5.8	0.8
	6.7	1.7		5.7	0.7
	6.6	1.6		5.7	}
	6.5	1.5		5.7	
50	6.6	1.6	50	5.7	0.7
	6.6	1.6		5.6	0.6
	6.6	1.6		5.5	0.5
	6.7	1.7		5.4	0.4
	6.3	1.3		5.3	0.3
5+00	6.5	1.5	7+00	5.3	}
	6.4	1.4		5.3	
	6.1	1.1		5.3	}
	6.0	1.0		5.3	
	6.2	1.2		5.3	
50	6.1	1.1	50	5.3	0.3
	6.0	1.0		5.4	0.4
	6.0	1.0		5.3	0.3

N. 132+00; CONTD EAST 10-28-57

Dist	Sound	Elev	Dist	Sound	Elev
(5.0)	5.3	0.3	(5.0)	5.0	0.0
	5.4	0.4		5.0	0.0
8+00	5.4		10+00	4.9	+0.1
	5.4			4.9	+0.1
	5.4	0.4		4.9	+0.1
	5.3	0.3		5.0	0.0
	5.2	0.2	11.53	4.9	+0.1
50	5.2		50	5.0	0.0
	5.2			5.0	0.0
	5.2			5.0	0.0
	5.2			4.8	+0.2
	5.2			4.8	
9+00	5.2		11+00	4.8	
	5.2			4.8	
	5.2	0.2		4.8	
	5.1	0.1		4.8	+0.2
	5.1	0.1		4.9	+0.1
50	5.1	0.1	50	4.8	+0.2
	5.0	0.0		4.7	+0.3
	5.0	0.0		4.7	+0.3

N. 132+00; EAST (48)

Dist	Sound	Elev	Dist	Sound	Elev
(5.0)	4.7	+0.3	(5.0)	4.3	+0.7
	4.7		11.55	4.2	+0.8
	4.7		14+00	4.2	
	4.7			4.2	
	4.7			4.2	+0.8
	4.7	+0.3		4.4	+0.6
	4.6	+0.4		4.3	+0.7
50	4.6		50	4.3	
	4.6			4.3	
	4.6			4.3	+0.7
	4.6			4.4	+0.6
	4.6			4.3	+0.7
	4.6		15+00	4.3	+0.7
	4.6			4.4	+0.6
	4.6			4.4	
	4.6			4.4	
	4.6	+0.4		4.4	+0.6
50	4.6	+0.4	50	4.3	+0.7
	4.5	+		4.2	+0.8
	4.4	+		4.3	+0.7

N. 132+00 CONTD EAST 10-28-57

DIST	Sound	Elev	DIST	Sound	Elev
(5.0)	4.2	+0.8	(5.0)	2.0	+3.0
	4.3	+0.7	<u>11.58</u>	1.4	+3.6
16+00	4.3	+0.7	18+00	1.2	+3.8
	4.2	+0.8			
	4.1	+0.9			
	4.0	+1.0			
	3.8	+1.2			
50	3.7	+1.3 ✓	50		
	3.7	+1.3			
	3.6	+1.4			
	4.0	+1.0			
	5.3	0.3			
17+00	6.0	1.0	19+00		
	6.5	1.5			
	6.6	1.6			
	7.0	2.0			
	6.8	1.8			
50	4.8	+0.2	50		
	3.0	+2.0			
	2.4	+2.6			

N. 132+00; SOUND WEST

DIST	Sound	Elev	DIST	Sound	Elev
0+00			2+00	6.9	2.0
(4.9)	6.7	1.8	(4.9)	6.5	1.6
2+05	6.8	1.9		6.6	1.7
	6.8	1.9		6.6	1.7
	6.9	2.0		6.7	1.8
50	6.9		50	6.8	1.9
	6.9			6.7	1.8
	6.9			6.7	1.8
	6.9			6.8	1.9
	6.9			6.6	1.7
1+00	6.9	2.0	3+00	6.5	1.6
	6.8	1.9		6.4	1.5
	6.6	1.7		6.3	1.4
	6.5	1.6		6.2	1.3
	6.5	1.6		6.3	1.4
50	6.4	1.5	50	6.8	1.9
	6.5	1.6		6.6	1.7
	7.0	2.1		6.2	1.3
	7.1	2.2		6.2	1.3
	7.0	2.1		6.3	1.4

N. 132+00 CONT WEST 10-28-57

Dist	Sound	Elev	Dist	Sound	Elev
4+00	6.2	1.3	6+00	6.3	1.4
(4.9)	6.2	1.3	(4.9)	6.6	1.7
	6.2	1.3		6.2	1.3
	6.0	1.1		6.3	1.4
	6.3	1.4		6.0	1.1
50	6.2	1.3	50	6.0	1.1
	6.2	1.3		6.1	1.2
	6.3	1.4		6.1	1.2
	6.3	1.4		6.2	1.3
	6.2	1.3		6.2	
5+00	6.1	1.2	7+00	6.2	
	6.1	1.2		6.2	
	6.0	1.1		6.2	1.3
	6.0	1.1		6.3	1.4
	6.1	1.2		6.3	1.4
50	6.0	1.1	50	6.3	1.4
	6.0	1.1		6.2	1.3
	6.2	1.3		6.2	1.3
	6.1	1.2		6.2	1.3
	6.2	1.3		6.0	1.1

N. 132+00; WEST

Dist	Sound	Elev	Dist	Sound	Elev
8+00	6.0	1.1	10+00	5.2	0.3
(4.9)	6.0	1.1	(4.9)	5.2	
200	6.1	1.2		5.2	
	6.1			5.2	0.3
	6.1			5.3	0.4
50	6.1	1.2	50	5.3	
	5.8	0.9		5.3	
	5.9	1.0		5.3	
	5.8	0.9		5.3	
	5.8	0.9		5.3	
9+00	5.8	0.9	11+00	5.3	0.4
	5.9	1.0		5.2	0.3
	5.8	0.9		5.4	0.5
	5.7	0.8		5.3	0.4
	5.6	0.7		5.2	0.3
50	5.5	0.6	50	5.2	0.3
	5.6	0.7		5.1	0.2
	5.3	0.4		5.1	
	5.2	0.3		5.1	
	5.2	0.3		5.1	0.2

(50)

N.132+00 CONTD WEST 10-28-57

DIST	Sound	Elev	DIST	Sound	Elev
12+00	5.2	0.3	14+00	5.4	0.6
(4.9)	5.2	0.3	(48)	6.0	1.2
	5.2	0.3		7.0	2.2
	5.1	0.2	21/3	7.8	3.0
	5.4	0.5		8.0	3.2
50	5.1	0.2	50	8.5	3.7
	5.0	0.1		8.8	4.0
	5.1	0.2		9.2	4.3
	5.1	0.2		9.3	4.5
	5.2	0.3		9.9	5.1
13+00	5.1	0.2	15+00	10.1	5.3
	5.1	0.2		10.2	5.4
	5.2	0.3		10.3	5.5
	5.2	0.3		10.3	5.5
	5.3	0.4		10.2	5.4
50	5.3		50	8.3	3.5
	5.3			7.5	3.7
	5.3			8.1	3.3
	5.3			11.0	6.2
	5.3	0.4		11.9	7.1

N.132+00; WEST

DIST	Sound	Elev	DIST	Sound	Elev
16+00	12.7	7.9	18+00	3.7	+1.1
(48)	12.7	7.9	(4.8)	3.0	+1.8
	12.6	7.8		2.3	+2.5
21/5	12.6	7.8		2.1	+2.7
	12.5	7.7		1.7	+3.1
50	12.5	7.7	50	1.1	+3.7
	12.4	7.6			
	12.4	7.6			
	12.3	7.5			
	12.7	7.9			
17+00	12.9	8.1	19+00		
	13.0	8.2			
	12.9	8.1			
	12.8	8.0			
	12.0	7.2			
50	12.0	7.2			
	8.1	3.3			
	7.2	2.4			
	6.6	1.8			
	5.0	0.2			

(5)

10-29-57  
 N.134+00; 0+00 = W.18,500; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	5.6	1.7	(39)	6.0	2.1
(3.9)	6.0	2.1	2+00	5.7	1.8
<u>9:33</u>	5.8	1.9	<u>9:35</u>	5.7	1.8
	6.0	2.1		6.0	2.1
	6.2	2.3		5.9	2.0
50	6.2			6.0	2.1
	6.2		50	6.0	
	6.2			6.0	
	6.2			6.0	2.1
	6.2			5.6	1.7
1+00	6.2	2.3v		5.8	1.9
	6.0	2.1	3+00	6.0	2.1v
	6.3	2.4		6.0	2.1
	6.3	2.4		5.7	1.8
	6.3	2.4		5.6	1.7
50	6.1	2.2		5.7	1.8
	6.0	2.1	50	5.5	1.6
	6.2	2.3		5.7	1.8
	6.2	2.3		5.7	1.8

N.134+00; EAST (52)

Dist	Sound	Elev	Dist	Sound	Elev
(39)	5.5	1.6	(39)	5.0	1.1
	5.6	1.7		4.8	0.9
4+00	5.8	1.9	6+00	4.8	0.9
	5.8			4.6	0.7
	5.8			4.6	0.7
	5.8			4.8	0.9
	5.8			4.8	
50	5.8		50	4.8	
	5.8	1.9		4.8	
	5.5	1.6		4.8	0.9
	5.3	1.4		4.6	0.7
	5.2	1.3		4.6	0.7
5+00	5.4	1.5v	7+00	4.5	0.6v
	5.2	1.3	<u>9:40</u>	4.2	0.3
	5.0	1.1		4.2	
	5.0			4.2	
	5.0			4.2	0.3
50	5.0		50	4.3	0.4
	5.0			4.1	0.2
	5.0	1.1		4.1	0.2

N. 131+00 CONTD EAST 10-29-57

DIST	Sound	Elev	DIST	Sound	Elev
(3.9)	4.3	0.4	(3.9)	4.0	0.1
	4.3			4.0	
8+00	4.3		10+00	4.0	
	4.3			4.0	
	4.3		9.43	4.0	
	4.3	0.4	<u>5</u>	4.0	
	4.2	0.3		4.0	
50	4.6	0.7	50	4.0	
	4.2	0.3		4.0	
	4.2			4.0	
	4.2			4.0	
	4.2	0.3		4.0	
9+00	4.3	0.4	11+00	4.0	
	4.0	0.1		4.0	
	4.0			4.0	
	4.0			4.0	
	4.0			4.0	
50	4.0		50	4.0	
	4.0			4.0	
	4.0	0.1		4.0	0.1

N. 134+00; EAST

DIST	Sound	Elev	DIST	Sound	Elev
(3.9)	4.0	0.1	(3.9)	3.8	+0.1
	4.0			3.8	+0.1
12+00	4.0		14+00	3.5	+0.4
	4.0			3.5	
	4.0			3.5	
	4.0			3.5	+0.4
	4.0			3.4	+0.5
50	4.0		50	3.4	+0.5
	4.0			3.4	+0.5
9.75	4.0			3.5	+0.4
<u>5</u>	4.0	0.1		3.2	+0.7
	3.8	+0.1		3.2	0.7
	3.8			3.2	
13+00	3.8		15+00	3.2	
	3.8			3.2	
	3.8			3.2	+0.7
	3.8			3.1	+0.8
	3.8			3.0	+0.9
50	3.8		50	3.0	+0.9
	3.8			3.0	+0.9
	3.8	+0.1		2.8	+1.1



N. 134+00 CONTD EAST 10-29-57

Dist Sound Elev Dist Sound Elev

(39) 2.8 +0.1

2.7 +0.2

16+00 2.5 +0.4 18+00

2.7 +0.2

9:48 2.7 +0.2

2.7 +0.2

2.5 +0.4

50 3.2 +0.7

4.5 0.6

5.2 1.3

6.0 2.1

6.0 2.1

17+00 5.1 1.2

2.5 +1.4

1.9 +2.0

1.3 +2.6

0.8 +3.1

50

N. 134+00; SOUND

Dist Sound Elev

0+00

(40) 5.8 1.8

9:56 5.8 1.8

6.0 2.0

6.0 2.0

50 5.7 1.7

6.0 2.0

6.0

6.0

6.0 2.0

1+00 5.8 1.8

5.6 1.6

5.9 1.9

5.9 1.9

5.9 1.9

50 5.6 1.6

5.9 1.9

5.9

5.9

5.9 1.9

WEST

Dist Sound Elev

2+00 5.9 2.0

(40) 6.0 2.0

6.0 2.0

5.8 1.8

6.0 2.0

50 5.8 1.8

6.0 2.0

6.0

6.0

6.0

3+00 6.0 2.0

5.7 1.7

6.0 2.0

6.2 2.2

6.0 2.0

50 5.8 1.8

5.5 1.5

6.0 2.0

6.0 2.0

6.0 2.0

(54)

N.134+00 CONTD WEST 10-29-57

Dist	Sound	Elev	Dist	Sound	Elev
4+00	6.0	2.0	6+00	5.9	1.9
(4.0)	6.0	}	(40)	5.7	1.7
<u>10:00</u>	6.0		5.3	1.3	
	6.0		5.8	1.8	
	6.0		5.7	1.7	
50	6.0		50	5.8	1.8
	6.0		5.9	1.9	
	6.0		5.7	1.7	
	6.0		5.7	1.7	
	6.0	2.0	5.5	1.5	
5+00	5.8	1.8 ✓	7+00	5.3	1.3
	6.0	2.0	5.7	1.7	
	6.0	2.0	1003	5.5	1.5
	6.0	2.0	5.5	1.5	
	5.7	1.7	5.8	1.8	
50	6.1	2.1	50	5.8	1.8
	5.7	1.7	5.5	1.5	
	5.2	1.2	5.5	1.5	
	5.7	1.7	5.3	1.3	
	5.9	1.9	5.7	1.7	

N.134+00 WEST

Dist	Sound	Elev	Dist	Sound	Elev
8+00	5.9	1.9	10+00	5.7	1.7
(40)	5.9	1.9	10:05	5.7	}
	5.8	1.8	<u>40</u>	5.7	
	5.8	1.8		5.7	
	5.3	1.3		5.5	1.5
50	5.3	1.3	50	5.5	1.5
	5.2	1.2		5.5	1.5
	5.4	1.4		5.2	1.2
	5.4	1.4		5.9	1.9
	5.8	1.8		5.3	1.3
9+00	5.4	1.4 ✓	11+00	5.0	1.0 ✓
	5.5	1.5		5.0	}
	5.5	1.5		5.0	
	5.7	1.7		5.0	
	5.7			5.0	
50	5.7		50	5.0	
	5.7			5.0	
	5.7			5.0	
	5.7			5.0	
	5.7	1.7		5.0	1.0

N.134+00 CONTD WEST 10-28-57

Dist	Sound	Elev	Dist	Sound	Elev
12+00	5.0	1.0	14+00	9.0	5.0
(4.0)	5.0		(4.0)	9.0	5.0
	5.0		10+00	9.2	5.2
	5.0			9.4	5.4
	5.0			9.7	5.7
5.0	5.0		5.0	9.7	5.7
	5.0			9.9	5.9
	5.0			10.0	6.0
	5.0			9.8	5.8
10+08	5.0			9.8	5.8
13+00	5.0		15+00	10.0	6.0
	5.0			9.4	5.4
	5.0			8.8	4.4
	5.0			8.5	4.5
	5.0	1.0		8.4	4.4
5.0	5.8	1.8	5.0	8.4	4.4
	6.5	2.5		8.0	4.0
	7.1	3.1		8.2	4.2
	7.9	3.9		8.2	4.2
	8.4	4.4		8.0	4.0

N.134+00; WEST

Dist	Sound	Elev	Dist	Sound	Elev
16+00	8.5	4.5	18+00	7.4	3.4
(4.0)	8.8	4.8	(4.0)	4.9	0.9
	10.0	6.0		3.7	+0.7
	11.7	7.7		2.8	+1.2
	12.3	8.3		2.0	+2.0
5.0	13.0	9.0	5.0	1.2	+2.8
	12.6	8.6			
	12.8	8.8			
	12.8	8.8			
10+3	12.3	8.3			
17+00	12.3				
	12.3				
	12.3				
	12.3	8.3			
	12.0	8.0			
5.0	12.0	8.0			
	11.8	7.8			
	11.5	7.5			
	10.9	6.4			
	9.7	5.7			

10-29-57  
N.136+00; 0+00 W 18,500; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	5.7	1.6	(41)	6.2	2.1
(41)	6.1	2.0	2+00	6.2	
<u>10:25</u>	5.8	1.7		6.2	
	5.8	1.7		6.2	2.1
	5.8	1.7		6.3	2.2
50	5.9	1.8		6.3	2.2
	6.0	1.9	50	6.3	2.2
	6.0	1.9		6.4	2.3
	5.9	1.8		6.3	2.2
	5.9	1.8		6.2	2.1
1+00	6.0	1.9		6.2	2.1
	6.1	2.0	3+00	6.3	2.2
	6.2	2.1		6.3	
	6.2	2.1		6.3	
	6.2	2.1		6.3	2.2
50	6.1	2.0		6.8	2.7
	6.2	2.1	50	6.5	2.4
	6.2	2.1		6.2	2.1
	6.2	2.1		6.0	1.9

N.136+00; EAST (57)

Dist	Sound	Elev	Dist	Sound	Elev
(41)	6.0	1.9	(41)	5.8	1.7
	6.2	2.1	<u>10:28</u>	5.8	1.7
4+00	6.2	2.1	6+00	5.7	1.6
	6.0	1.9		5.6	1.5
	5.9	1.8		5.5	1.4
	6.0	1.9		5.4	1.3
	6.0			5.3	1.2
50	6.0		50	5.2	1.1
	6.0			5.1	1.0
	6.0			5.0	0.9
	6.0			5.0	
	6.0	1.9		5.0	
5+00	5.9	1.8	7+00	5.0	
	6.0	1.9		5.0	0.9
	5.9	1.8		5.1	1.0
	5.8	1.7		5.0	0.9
	5.8			4.9	0.8
50	5.8		50	4.9	0.8
	5.8			4.9	0.8
	5.8	1.7		4.8	0.7

N. 136+00 CONTD EAST 10-29-57

Dist	Sound	Elev	Dist	Sound	Elev
(41)	4.7	0.6	(41)	4.7	0.6
10:30	4.7	0.6		4.7	0.6
8+00	4.6	0.5	10+00	4.7	0.6
	4.6			4.6	0.5
	4.6			4.5	0.4
	4.6			4.4	0.3
	4.6	0.5		4.3	0.2
50	4.7	0.6	50	4.3	
	4.7	0.6		4.3	
	4.7	0.6		4.3	0.2
	4.8	0.7		4.4	0.3
	4.7	0.6		4.5	0.4
9+00	4.7		11+00	4.4	0.3
	4.7			4.6	0.5
	4.7	0.6		4.5	0.4
	4.8	0.7		4.4	0.3
	4.8	0.7		4.4	
50	4.9	0.8	50	4.4	
	4.8	0.7		4.4	0.3
	4.7	0.6		4.5	0.4

N. 136+00: EAST

Dist	Sound	Elev	Dist	Sound	Elev
(41)	4.4	0.3	(42)	3.9	+0.3
	4.3	0.2	10:33	3.9	+0.3
12+00	4.3		14+00	3.8	+0.4
	4.3			3.7	+0.5
	4.3	0.2		3.7	+0.5
	4.2	0.1		3.7	+0.5
	4.2			3.6	+0.6
50	4.2		50	3.6	+0.6
	4.2			3.5	+0.7
	4.2			3.4	+0.8
	4.2	0.1		3.3	+1.1
	4.1	0.0		3.3	+
13+00	4.1	0.0	15+00	3.3	+
	4.1	0.0		3.3	+1.1
	4.0	+0.1		3.2	+1.0
	4.0			3.1	+1.1
	4.0			3.0	+1.2
50	4.0	+0.1	50	3.0	+1.2
	3.9	+0.2		2.9	+1.3
	3.9	+0.2		2.8	+1.4

N. 136+00 CONTD EAST 10-29-57

Dist	Sound	Elev	Dist	Sound	Elev
(42)	2.8	+1.4			
<u>1035</u>	2.8	+1.4			
16+00	3.4	+0.8	18+00		
	4.9	0.7			
	5.6	1.4			
	5.9	1.7			
	6.1	1.9			
50	5.4	1.2			
	3.7	+0.5			
	2.1	+2.1			
	1.6	+2.6			
	1.0	+3.2			
17+00	0.5	+3.7			
50					

N. 136+00; SOUND WEST (59)

Dist	Sound	Elev	Dist	Sound	Elev
0+00			2+00	6.1	1.9
(42)	6.0	1.8	(42)	6.1	1.9
<u>1043</u>	6.0			6.1	1.9
	6.0			6.0	1.8
	6.0			6.0	1.8
50	6.0	1.8	50	6.0	1.8
	5.9	1.7		6.1	1.9
	5.8	1.6		6.1	1.9
	5.8	1.6		6.1	1.9
	5.9	1.7		6.2	2.0
1+00	6.0	1.8	3+00	6.2	
	6.1	1.9		6.2	
	6.2	2.0		6.2	
	6.3	2.1		6.2	
	6.3	2.1		6.2	
50	6.2	2.0	50	6.2	2.0
	6.2			6.1	1.9
	6.2			6.1	1.9
	6.2			6.3	2.1
	6.2	2.0		6.2	2.0

N. 136+00 CONTD WEST 10-29-57

Dist	Sound	Elev	Dist	Sound	Elev
4+00	6.0	1.8	6+00	5.9	1.7
(42)	6.0	1.8	(42)	5.9	1.7
10+00	6.1	1.9		5.8	1.6
	6.1	}		5.8	
	6.1			5.8	
50	6.1		1.9	50	5.8
	6.2	2.0		5.8	
	6.2	}		5.8	
	6.2			5.8	
	6.2			5.8	1.6
5+00	6.2	2.0 ✓	7+00	5.9	1.7
	6.1	1.9		6.0	1.8
	6.0	1.8		5.9	1.7
	6.0	}		5.8	1.6
	6.0			5.8	1.6
50	6.0			50	5.9
	6.0	}		5.9	
	6.0			5.9	
	6.0			5.9	
	6.0	1.8		5.9	1.7

N. 136+00 WEST

Dist	Sound	Elev	Dist	Sound	Elev
8+00	5.9	1.7	10+00	6.0	1.7
(42)	6.0	1.8	(43)	6.0	
	6.0			6.0	
	6.0			6.0	1.7
	6.0			6.1	1.8
50	6.0		50	6.1	1.8
	6.0			6.2	1.9
	6.0			6.2	
	6.0			6.2	
	6.0			6.2	
9+00	6.0	✓	11+00	6.2	✓
	6.0			6.2	
	6.0			6.2	1.9
	6.0			6.1	1.8
	6.0			6.1	1.8
50	6.0		50	6.2	1.9
	6.0			6.3	2.0
	6.0			6.4	2.1
	6.0			6.4	2.1
	6.0	1.8		6.4	2.1

(60)

N.136+00; CONTD WEST 10-29-57

Dist	Sound	Elev	Dist	Sound	Elev
12+00	6.4	2.1	14+00	7.9	3.6
(4.3)	6.4		(4.3)	8.1	3.8
<u>10.55</u>	6.4			8.6	4.3
	6.4			9.1	4.8
	6.4			9.4	5.3
50	6.4		50	9.6	5.3
	6.4	2.1		9.4	5.1
	6.3	2.0		9.3	5.0
	6.2	1.9		9.2	4.9
	6.2	1.9		9.0	4.7
13+00	6.1	1.8	15+00	9.0	4.7
	6.0	1.7		9.6	5.6
	5.9	1.6		9.0	4.7
	5.8	1.5		8.7	4.4
	5.7	1.4		8.2	3.9
50	5.6	1.3	50	7.7	3.4
	5.7	1.4		7.3	3.0
	5.8	1.5		6.6	2.3
	6.3	2.0		6.2	1.9
	6.9	2.6		5.9	1.6

N.136+00; WEST (61)

Dist	Sound	Elev	Dist	Sound	Elev
16+00	5.7	1.4	18+00	8.5	4.2
(4.3)	6.1	1.8	(4.3)	6.2	1.9
<u>10.58</u>	7.8	3.5	<u>12.00</u>	3.4	+1.0
	9.5	5.2		2.4	+1.9
	10.7	6.4		1.8	+2.5
50	11.2	6.9	50	1.1	+3.2
	11.6	7.3			
	11.8	7.5			
	11.7	7.4			
	11.8	7.5			
17+00	12.0	7.7			
	12.4	8.1			
	12.4	8.1			
	12.4	8.1			
	12.3	8.0			
50	12.1	7.8			
	11.8	7.5			
	11.7	7.4			
	11.2	6.9			
	10.4	6.1			



10-29-57  
 N.138+00; 0+00 = W.18,500; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	6.1	1.8	(4.3)	6.0	1.7
(4.3)	6.0	1.7	2+00	6.2	1.9
<u>11/10</u>	6.2	1.9		6.0	1.7
	6.1	1.8		6.0	1.7
	6.2	1.9		6.3	2.0
50	6.3	2.0		6.2	1.9
	6.3		50	6.2	1.9
	6.3			7.0	2.7
	6.3			7.3	3.0
	6.3			7.5	3.2
1+00	6.3			6.2	1.9
	6.3	2.0	3+00	6.0	1.7
	6.7	2.4		6.2	1.9
	6.5	2.2		6.2	1.9
	6.0	1.7		6.4	2.1
50	6.2	1.9		6.4	2.1
	6.0	1.7	50	6.4	2.1
	6.2	1.9		6.2	1.9
	6.2	1.9		6.8	2.5

N.138+00; EAST  
 Dist - Sound Elev

Dist	Sound	Elev	Dist	Sound	Elev
(4.4)	7.1	2.7	(4.4)	5.8	1.4
	6.8	2.4	11/15	6.2	1.8
4+00	6.8		6+00	6.0	1.6
	6.8			6.0	1.6
	6.8	2.4		6.8	2.4
	6.6	2.2		6.4	2.0
	6.4	2.0		6.0	1.6
50	6.6	2.2	50	6.0	
	6.6	2.2		6.0	
	6.6	2.2		6.0	1.6
	6.2	1.8		6.8	2.4
	6.2	1.8		5.7	1.3
5+00	6.0	1.6	7+00	5.8	1.4
	6.4	2.0		5.7	1.3
	6.2	1.8		5.9	1.5
	6.0	1.6		5.9	1.5
	6.0	1.6		5.5	1.1
50	6.2	1.8	50	6.0	1.6
	6.2	1.8		6.4	2.0
	6.2	1.8		5.7	1.3

N. 138+00 CONTD EAST 10-29-57  
 Dist Sound Elev Dist Sound Elev

(4.4)	5.3	0.9	(4.4)	5.5	1.1
	5.3	0.9		5.1	0.7
8+00	5.1	0.7	10+00	5.0	0.6
	5.0	0.6		5.1	0.7
	5.2	0.8		4.9	0.5
	5.4	1.0		4.9	0.5
<u>10+00</u>	5.4	1.0		5.1	0.7
50	5.4	1.0	50	5.0	0.6
	5.2	0.8		5.0	0.6
	5.2			5.0	0.6
	5.2			4.8	0.4
	5.2			4.8	0.4
9+00	5.2	0.8 ✓	11+00	4.6	0.2 ✓
	5.0	0.6		4.9	0.5
	5.1	0.7		4.8	0.4
	5.5	1.1		4.8	0.4
	5.2	0.8		4.8	0.4
50	5.2	0.8	50	4.7	0.3
	5.9	1.5		4.7	0.3
	5.5	1.1		4.7	0.3

N. 138+00 EAST (63)  
 Dist Sound Elev Dist Sound Elev

(4.4)	4.5	0.1	(4.4)	3.4	+1.0
<u>1120</u>	4.5	0.1		3.5	+0.9
12+00	4.2	+0.2 ✓	14+00	3.5	+0.9
	4.5	0.1		3.3	+1.1
	4.3	+0.1		3.2	+1.2
	4.3	+0.1		3.0	+1.4
	4.2	+0.2		3.0	
50	4.2	+0.2	50	3.0	
	4.2	+0.2		3.0	
	4.0	+0.4		3.0	
	4.0			✓ 3.0	+1.4
	4.0			2.9	+1.5
13+00	4.0	+0.4	15+00	2.9	+1.5 ✓
	3.8	+0.6		2.8	+1.6
	3.8	+0.6		3.1	+1.3
	4.0	+0.4		4.0	+0.4
	3.8	+0.6		5.0	0.6
50	3.8	+0.6	50	5.9	1.5
	3.6	+0.8		6.3	1.9
	3.6	+0.8		6.2	1.8



N. 138+00 CONTD WEST 10-29-57

Dist	Sound	Elev	Dist	Sound	Elev
4+00	6.1	1.7	6+00	6.4	2.0
(44)	6.0	1.6	(49)	6.2	1.8
10'35	6.1	1.7		5.9	1.5
~~~~	6.2	1.8		6.1	1.7
	6.2	1.8		6.2	1.8
50	6.3	1.9	50	6.5	2.1
	6.3	1.9		6.3	1.9
	6.0	1.6		6.3	1.9
	6.0	1.6		6.4	2.0
	6.2	1.8		6.2	1.8
5+00	6.2	1.8 ✓	7+00	6.2	1.8 ✓
	6.2	1.8		6.4	2.0
	6.6	2.2		6.3	1.9
	6.1	1.7		6.3	
	6.1	1.7		6.3	
50	6.1	1.7	50	6.3	
	6.2	1.8		6.3	
	6.2			6.3	
	6.2			6.3	
	6.2	1.8		6.3	1.9

N. 138+00; WEST (65)

Dist	Sound	Elev	Dist	Sound	Elev
8+00	6.3	1.8	10+00	6.0	1.5
(45)	6.1	1.6	(43)	6.1	1.6
	6.2	1.7	11+00	6.1	
	6.1	1.6	~~~~	6.1	
	6.3	1.8		6.1	
50	6.2	1.7	50	6.1	1.6
	6.2	1.7		6.0	1.5
	6.1	1.6		6.0	
	6.1			6.0	
	6.1	1.6 ✓	11+00	6.0	✓
	6.2	1.7		6.0	
	6.2	1.7		6.0	
	6.1	1.6		6.0	
	6.0	1.5		6.0	
50	6.0	1.5	50	6.0	
	6.0	1.5		6.0	
	5.8	1.3		6.0	
	5.8	1.3		6.0	
	6.0	1.5		6.0	1.5

N. 138+00; CONT'D WEST 10-29-57

N. 138+00; WEST

Dist	Sound	Elev	Dist	Sound	Elev
12+00	6.0	1.5	14+00	5.6	1.1
(45)	6.0	1.5	(45)	5.7	1.2
	5.7	1.2	1143	5.8	1.3
	5.8	1.3		5.8	1.3
	5.8	1.3		5.6	1.1
50	5.8	1.3	50	5.5	1.0
	5.7	1.2		5.6	1.1
	5.6	1.1		5.5	1.0
	5.8	1.3		5.3	0.8
	6.0	1.5		5.6	1.1
13+00	6.0	1.5	15+00	5.2	0.7
	6.0	1.5		5.2	0.7
	5.9	1.4		5.2	0.7
	5.8	1.3		5.0	0.5
	6.0	1.5		4.9	0.4
50	5.9	1.4	50	4.8	0.3
	5.7	1.2		4.9	0.4
	5.6	1.1		4.5	0.0
	5.7	1.2		4.5	0.0
	5.7	1.2		4.2	+0.3

Dist	Sound	Elev	Dist	Sound	Elev
16+00	4.2	+0.3	18+00	3.7	+0.8
(45)	4.0	+0.5	(45)	2.9	+1.6
1145	4.1	+0.4		2.3	+2.2
	4.1	+0.4		1.9	+2.6
	4.0	+0.5		1.2	+3.3
50	4.3	+0.2	50	0.5	+4.0
	5.2	0.7			
	6.0	1.5			
	6.0				
	6.0				
17+00	6.0				
	6.0	1.5			
	6.3	1.8			
	6.3	1.8			
	6.8	2.3			
50	6.8	2.3			
	6.4	1.9			
	6.0	1.5			
	5.3	0.8			
	4.9	0.4			

10-29-57  
 N. 140+00; 0+00 = W. 18,500; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	6.5	1.6	(49)	7.0	2.1
(49)	6.5	1.6	2+00	7.0	2.1
<u>1:15</u>	6.7	1.8		6.9	2.0
	6.7	1.8		6.9	2.0
	6.7	1.8		7.0	2.1
50	6.8	1.9		6.9	2.0
	6.8	}	50	6.9	2.0
	6.8			7.0	2.1
	6.8	1.9		7.1	2.2
	6.9	2.0		7.0	2.1
1+00	6.7	1.8		7.0	
	6.7	1.8	3+00	7.0	
	6.8	1.9		7.0	
	6.8	}		7.0	
	6.8			7.0	
50	6.8			7.0	
	6.8	1.9	50	7.0	
	6.9	2.0		7.0	2.1
	6.9	2.0		6.8	1.9

N. 140+00; EAST (67)

Dist	Sound	Elev	Dist	Sound	Elev
	7.0	2.1	(49)	7.1	2.2
(49)	6.8	1.9	<u>1:20</u>	6.8	1.9
4+00	7.0	2.1	6+00	6.8	}
	6.8	1.9		6.8	
<u>1:18</u>	7.0	2.1		6.8	1.9
	6.8	1.9		6.9	2.0
	6.8	1.9		6.9	2.0
50	7.0	2.1	50	7.1	2.2
	7.2	2.3		7.4	2.5
	7.2	2.3		7.2	2.3
	6.9	2.0		7.0	2.1
	6.9	2.0		7.0	2.1
	6.8	1.9	5+00	6.8	1.9
	6.5	1.6	7+00	7.1	2.2
	6.6	1.7		6.9	2.0
	6.7	1.8		6.9	2.0
	6.7	1.8		6.9	2.0
50	6.9	2.0	50	6.8	1.9
	6.9	2.0		6.8	1.9
	7.0	2.1		6.5	1.6

N. 140+00 CONTD EAST 10-29-57

Dist	Sound	Elev	Dist	Sound	Elev
(49)	6.5	1.6	(49)	5.3	0.4
	6.5	1.6		5.2	0.3
8+00	6.8	1.9	10+00	5.1	0.2
	6.6	1.7		5.1	0.2
	6.5	1.6		5.0	0.1
	6.6	1.7		5.0	
	6.8	1.9		5.0	
50	6.8	1.9	50	5.0	
	6.3	1.4	<u>11.23</u>	5.0	
	6.2	1.3	<u>      </u>	5.0	0.1
	6.0	1.1		4.8	+0.1
	6.0	1.1		4.8	+0.1
9+00	6.0	1.1	11+00	4.9	0.0
	5.9	1.0		4.6	+0.3
	5.9	1.0		4.6	
	5.7	0.8		4.6	
	5.8	0.9		4.6	+0.3
50	5.8	0.9	50	4.5	+0.4
	5.5	0.6		4.4	+0.5
	5.5	0.6		4.2	+0.7

N. 140+00; EAST (68)

Dist	Sound	Elev	Dist	Sound	Elev
(49)	4.1	+0.8	(49)	3.0	+1.9
	4.1	+0.8		3.0	+1.9
12+00	4.0	+0.9	14+00	2.9	+2.0
	4.0	+0.9		2.9	+2.0
	4.0	+0.9		3.0	+1.9
	3.9	+1.0		3.0	+1.9
	3.9	+1.0		3.0	+1.9
50	3.9	+1.0	50	3.3	+1.6
	3.7	+1.2		4.5	+0.4
	3.5	+1.4		5.9	1.0
	3.5			6.2	1.3
	3.5			6.6	1.7
13+00	3.5	+1.4	15+00	6.4	1.5
	3.4	+1.5		5.8	0.9
	3.4	+1.5		3.6	+1.3
	3.4	+1.5		2.8	+2.1
	3.2	+1.7		2.0	+2.9
50	3.2	+1.7	50	1.7	+3.2
	3.1	+1.8		1.0	+3.9
	3.1	+1.8		0.4	+4.5

N. 140+00 CONTD EAST 10-29-57  
 Dist Sound Elev Dist Sound Elev

16+00

18+00

50

17+00

50

N. 140+00; SOUND WEST  
 Dist Sound Elev Dist Sound Elev

0+00

(49)

1.40

50

50

1+00

50

2+00

(49)

50

3+00

50

6.4 - 1.5

6.5 1.6

6.5 1.6

6.8 1.9

6.8 1.9

6.7 1.8

6.5 1.6

6.6 1.7

6.7 1.8

7.0 2.1

6.2 1.3 ✓

6.8 1.9

6.8

6.8

6.8

6.8 1.9

6.5 1.6

6.5 1.6

6.9 2.0

6.5 1.6



N. 140+00 CONTD WEST 10-29-57

Dist	Sound	Elev	Dist	Sound	Elev
4+00	6.9	2.0	6+00	6.4	1.5
(4.9)	6.8	1.9	(4.9)	6.7	1.8
	6.8			6.7	
	6.8			6.7	
	6.8			6.7	
50	6.8		50	6.7	1.8
	6.8	1.9		6.4	1.5
	6.5	1.6		6.7	1.8
<u>1:45</u>	6.2	1.3		6.5	1.6
	6.5	1.6		6.5	1.6
5+00	6.3	1.4 ✓	7+00	6.5	1.6 ✓
	6.8	1.9		6.3	1.4
	6.5	1.6		6.5	1.6
	6.6	1.7		6.6	1.7
	6.6			6.3	1.4
50	6.6		50	6.8	1.9
	6.6	1.7		6.5	1.6
	6.4	1.5		6.7	1.8
	6.6	1.7		6.7	1.8
	6.6	1.7		6.0	1.1

N. 140+00 WEST

Dist	Sound	Elev	Dist	Sound	Elev
8+00	6.3	1.4	10+00	6.3	1.4
(4.9)	6.5	1.6	(4.9)	6.3	
<u>1:48</u>	6.5	1.6	<u>1:50</u>	6.3	
	6.5	1.6		6.3	
	6.7	1.8		6.3	
50	6.7	1.8	50	6.3	
	6.6	1.7		6.3	
	6.6	1.7		6.3	
	6.6	1.7		6.3	
	6.8	1.9		6.3	
9+00	6.2	1.3 ✓	11+00	6.3	1.4 ✓
	6.2	1.3		6.6	1.7
	6.5	1.6		6.5	1.6
	6.4	1.5		6.5	1.6
	6.4			6.5	1.6
50	6.4		50	6.2	1.3
	6.4			6.3	1.4
	6.4			6.2	1.3
	6.4			6.1	1.2
	6.4	1.5		6.1	1.2

N. 140+00 CONT'D WEST 10-29-57

Dist	Sound	Elev	Dist	Sound	Elev
12+00	6.1	1.2	(49)	5.0	0.1
(49)	6.1		<u>11.55</u>	5.0	0.1
	6.1			4.9	0.0
50	6.1	1.2		4.9	0.0
	6.0	1.1	30	4.8	+0.1
50	6.0			4.8	+0.1
W. 111+00	6.0			4.8	+0.1
01+00	6.0			5.0	0.1
	6.0	1.1		5.0	0.1
	5.8	0.9	15+00	4.8	+0.1
13+00	5.8	0.9		4.8	+0.1
	6.0	1.1		4.7	+0.2
30	6.0	1.1		4.7	+0.2
50	5.7	0.8		4.7	+0.2
	5.5	0.6	50	4.0	+0.9
50	5.7	0.8		3.9	+1.0
	5.5	0.6		4.0	+0.9
	5.2	0.3		4.2	+0.7
14+00	5.0	0.1		4.2	+0.7
	5.0	0.1			

N. 140+00 CONT'D WEST

Dist	Sound	Elev	Dist	Sound	Elev
16+00	4.2	+0.7	200	1.6	+3.3
(49)	4.5	+0.4	<u>18+00</u>	1.0	+3.9
	4.7	+0.2			
	4.8	+0.1			
	4.8	+0.1			
50	4.9	0.0			
	4.9				
	4.9				
	4.9	0.0			
	5.5	0.6			
7+00	5.7	0.8			
	5.9	1.0			
	6.0	1.1			
	6.0	1.1			
	5.4	0.5			
50	4.4	+0.5			
	3.0	+1.9			
	2.6	+2.3			
	2.0	+2.9			

10 - 29 - 57

W. 170+00; 0+00 = N. 14000; SOUND NORTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00			(49)	2.0	+2.9
(49)	5.7	0.8		1.8	+3.1
<u>2:10</u>	4.1	+0.8		1.5	+3.4
	3.8	+1.1		1.2	+3.7
	2.9	+2.0	1+00	1.0	+3.9
50	2.4	+2.5		0.6	+4.3

W. 171+00; 0+00 = N. 14000; SOUND NORTH

0+00				7.0	2.1
	2.9	+2.0		6.2	1.3
<u>2:20</u>	2.9	}		6.2	1.3
	2.9		50	6.0	1.1
	2.9			5.4	0.5
50	2.9			4.9	0.0
	2.9		+2.0		3.5
	3.0	+1.9		2.7	+2.2
	3.3	+1.6	2+00	2.3	+2.6
	4.5	+0.4		1.8	+3.1
1+00	5.3	0.4		1.3	+3.6
	6.0	1.1		1.6	+3.3
				1.3	+3.6

(2)

W. 172+00; 0+00 = N. 14000; SOUND NORTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00			(49)	3.8	+1.1
(49)	3.2	+1.7	2+00	5.1	0.2
<u>2:26</u>	3.3	+1.6		5.7	0.8
	3.3	+1.6		5.2	0.3
	3.2	+1.7		4.4	0.5
50	3.1	+1.8		4.4	0.5
	3.0	+1.9	50	5.3	0.4
	3.1	+1.8		5.2	0.3
	3.1			4.5	+0.4
	3.1		<u>2:28</u>	3.2	+1.7
1+00	3.1	+1.8		2.4	+2.5
	3.0	+1.9	3+00	2.1	+2.8
	3.0	+1.9		1.7	+3.2
	2.9	+2.0		1.1	+3.8
	2.8	+2.1			
50	2.8				
	2.8		50		
	2.8	+2.1			
	3.0	+1.9			

10-29-57  
W173+00; 0+00=N. 14,000; SOUND NORTH

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00			(48)	3.1	+1.7
(48)	3.8	+1.0	2+00	3.1	+1.7
<u>2:33</u>	3.8	+1.0		3.1	+1.7
	3.7	+1.1		3.0	+1.8
	3.6	+1.2		3.0	+1.8
50	3.6	+1.2		2.9	+1.9
	3.6	+1.2	50	2.9	+1.9
	3.5	+1.3	<u>2:35</u>	2.9	+1.9
	3.5	+1.3		3.4	+1.4
	3.5	+1.3		4.8	0.0
1+00	3.4	+1.4		5.4	0.6
	3.3	+1.5	3+00	6.0	1.2
	3.2	+1.6		6.3	1.5
	3.2	+1.6		6.3	1.5
	3.3	+1.5		6.2	1.4
50	3.3	+1.5		6.1	1.3
	3.3	+1.5	50	5.4	0.6
	3.2	+1.6		3.9	+0.9
	3.1	+1.7		2.7	+2.1

W173+00; NORTH

DIST	SOUND	ELEV
(48)	2.2	+2.6
	1.9	+3.0
4+00	1.3	+3.5
	0.9	+3.9

10-29-57  
 W. 174+00; 0+00 = N. 400; SOUND NORTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00			(48)	3.5	+1.3
(4.8)	4.4	+0.4	2+00	3.5	+1.3
2+00	4.3	+0.5		3.4	+1.4
↔	4.2	+0.6		3.3	+1.5
	4.1	+0.7		3.2	+1.6
50	4.1	+0.7		3.2	
	4.1	+0.7	50	3.2	
	4.0	+0.8		3.2	+1.6
	3.9	+0.9		3.1	+1.7
	3.9			3.1	
1+00	3.9			3.1	
	3.9		3+00	3.1	
	3.9			3.1	
	3.9	+0.9		3.1	
	3.8	+1.0		3.1	+1.7
50	3.8	+1.0		3.0	+1.8
	3.7	+1.1	50	3.1	+1.7
	3.6	+1.2		3.8	+1.0
	3.6	+1.2		5.1	0.3

W. 174+00; NORTH (74)  
 Dist Sound Elev Dist Sound Elev

Dist	Sound	Elev	Dist	Sound	Elev
(4.8)	5.5	0.7			
	6.3	1.5			
4+00	6.4	1.6			
	6.6	1.8			
	6.6	1.8			
	6.0	1.2	2+44		
	5.5	0.7			
50	3.2	+1.6			
	2.3	+2.5			
	1.8	+3.0			
	1.2	+3.6			
	0.7	+4.1			

10-29-57  
 W. 175+00; 0+00 - N. 14000; SOUND NORTH

W. 175+00; NORTH (75)  
 Dist Sound Elev Dist Sound Elev

Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev
			(4.7)	4.2	+0.5	(4.7)	3.2	+1.5
0+00			(4.7)	4.2	+0.5		3.2	+
(4.7)	5.0	0.3	2+00	4.1	+0.6	4+00	3.2	+
<u>2.48</u>	4.9	0.2		4.1	+0.6		3.2	+1.5
	4.8	0.1	2:50	4.0	+0.7		3.3	+1.4
	4.8	0.1		4.0			4.1	+0.6
50	4.7	0.0		4.0			5.2	0.5
	4.6	+0.1	50	4.0	+0.7	50	5.9	0.8
	4.7	0.0		3.9	+0.8		6.6	1.9
	4.6	+0.1		3.9	+0.8		6.6	1.9
	4.6			3.9	+0.8		6.7	2.0
1+00	4.6			3.8	+0.8		6.6	1.9
	4.6	+0.1	3+00	3.7	+1.0	5+00	6.0	1.3
	4.5	+0.2		3.6	+1.1		4.8	0.1
	4.5	+0.2		3.5	+1.2		3.3	+1.4
	4.4	+0.3		3.5	+1.2		2.6	+2.1
50	4.3	+0.4		3.5	+1.2		2.1	+2.6
	4.2	+0.5	50	3.4	+1.3	50	1.8	+2.9
	4.2	+0.5		3.3	+1.4		1.1	+3.6
	4.2	+0.5		3.3	+1.4			

10-30-57  
 W. 176+00; 0+00 = N. 14000 SOUND NORTH

W. 176+00; NORTH  
 Dist Sound Elev Dist Sound Elev <sup>(76)</sup>

Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev
			(3.6)	3.5	+0.1	(3.6)	2.7	+0.9
0+00				2.6	+1.0		2.0	+1.6
(3.6)	4.4	0.8	2+00	3.4	+0.2	4+00	2.6	+1.0 ✓
9:27	4.1	0.5		3.4	+0.2		2.5	+1.1
	4.0	0.4		3.4	+0.2		2.4	+1.2
	3.9	0.3	9:30	3.4	+0.2		2.3	+1.3 ✓
50	3.9	0.3		3.4	+0.2		2.2	+1.4
	3.8	0.2	50	3.4	+0.2	50	2.2	+1.4
	3.8	0.2		3.3	+0.3		2.2	+1.4
	3.6	0.0		3.3	+0.3		2.0	+1.6
	3.6	0.0		3.1	+0.5		2.0	+1.6
1+00	3.5	+0.1		3.2	+0.4		2.0	+1.6
	3.7	0.1	3+00	3.2	+0.4	5+00	2.2	+1.4
	3.5	+0.1		3.1	+0.5		3.2	+0.4
	3.6	0.0		3.1	+0.5		3.9	0.3
	3.7	0.1		2.9	+0.7		4.5	0.9
50	3.6	0.0		2.9	+0.7		4.5	0.9
	3.6	0.0	50	2.8	+0.8	50	4.3	0.7
	3.6	0.0		2.7	+0.9		4.2	0.6
	3.6	0.0		2.7	+0.9		3.4	+0.2

10-30-57

W. 177+00; Otch=N. 14000; SOUND NORTH

W. 177+00; NORTH (77)  
Dist Sound Elev Dist Sound Elev

Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev
			(3.6)	3.7	0.1	(3.6)	3.9	0.3			
0+00			(3.6)	3.7	0.1	9143	2.9	+0.7		4.5	0.9
(3.6)	4.3	0.7	2+00	3.7	0.1	4+00	2.7	+0.9	6+00	4.6	1.0
<u>940</u>	4.6	1.0		3.6	0.0		2.6	+1.0		4.6	1.0
	4.6	1.0		3.6	0.0		2.6	+1.0		4.5	0.9
	4.6	1.0		3.6	0.0		2.6	+1.0		2.8	+0.8
50	4.5	0.9		3.6	0.0		2.5	+1.1		1.2	+2.4
	4.5	0.9	50	3.5	+0.1	50	2.6	+1.0	50	0.7	+2.9
	4.2	0.6		3.5	+0.1		2.4	+1.2			
	4.4	0.8		3.4	+0.2		2.2	+1.4			
	4.4	0.8		3.3	+0.3		2.2	+1.4			
1+00	4.4	0.8		3.3	+0.3		2.2	+1.4			
	4.1	0.5	3+00	3.2	+0.4	5+00	2.0	+1.6			
	4.1	0.5		3.2	+0.4		2.0	+1.6			
	4.0	0.4		3.1	+0.5		1.9	+1.7			
	3.9	0.3		3.1	+0.5		1.9	+1.7			
50	4.0	0.4		3.0	+0.6		1.9	+1.7			
	4.0	0.4	50	3.0	+0.6	50	1.8	+1.8			
	4.0	0.4		2.8	+0.8		2.0	+1.6			
	4.0	0.4		2.9	+0.7		2.8	+0.8			



10-30-57  
 W. 178+00; 0+00 = N. 14000; SOUND NORTH

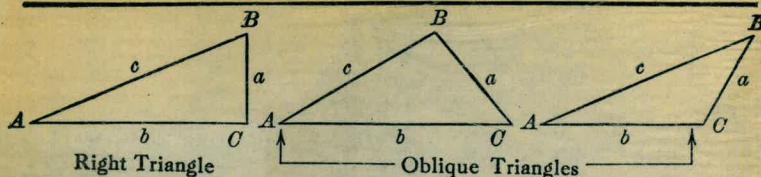
W. 178+00; NORTH # (CONT'D MBN # 101) (78)  
 DIST SOUND Elev DIST SOUND Elev

DIST	SOUND	Elev	DIST	SOUND	Elev	DIST	SOUND	Elev	DIST	SOUND	Elev
			(3.6)			(3.6)					
0+00			(3.6)	4.0	0.4						
(3.6)	5.2	1.6	2+00	4.0	0.4	4+00	2.9	+0.7	6+00	1.7	+1.9
9:52	5.2	1.6		3.9	0.3		3.0	+0.6		2.3	+1.3
	5.0	1.4	9:55	3.7	0.1		2.9	+0.7		2.1	+1.5
	4.8	1.2		3.7	0.1		2.9	+0.7		2.0	+1.6
50	4.9	1.3		3.8	0.2		2.8	+0.8		1.9	+1.7
	5.0	1.4	50	3.6	0.0	50	2.6	+1.0	50	1.5	+2.1
	4.7	1.1		3.5	+0.1		2.5	+1.1		1.1	+2.5
	4.6	1.0		3.5	+0.1		2.6	+1.0		0.5	+3.1
	4.5	0.9		3.4	+0.2		2.5	+1.1			
1+00	4.3	0.7		3.4	+0.2		2.4	+1.2			
	4.4	0.8	3+00	3.4	+0.2	5+00	2.4	+1.2			
	4.4	0.8		3.3	+0.3	9:58	2.2	+1.4			
	4.3	0.7		3.3	+0.3		2.3	+1.3			
	4.2	0.6		3.3	+0.3		2.2	+1.4			
50	4.3	0.7		3.2	+0.4		2.0	+1.6			
	4.3	0.7	50	3.1	+0.5	50	1.9	+1.7			
	4.2	0.6		3.1	+0.5		2.0	+1.6			
	4.1	0.5		3.0	+0.6		1.7	+1.9			

CONTD MB.

No 101

TRIGONOMETRIC FORMULÆ



Right Triangle

Oblique Triangles

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.