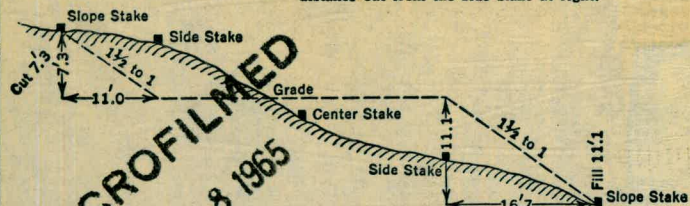


MB 115

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.



Distance out from Side or Shoulder Stake

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

KEUFFEL & ESSER CO., N. Y.

MB 115

THIS BOOK INDEXED 2/7/62

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

CONT FROM F. B. 114 -

①

Color
2011

The paper in this book is not
of good quality and the
water binding is very

1912

CONT FROM BOOK # 114 - 7-9-59. 3
SEC FB 114 - PAGE 69 -

STAN 124+00; 0+00 = W 11500 - SOUND EAST

DIST	Sound	ELEV	DIST	Sound	ELEV
0+00				0.9	+3.3
			2+00	1.0	+3.2
				1.0	+3.2
				1.7	+2.5
				1.3	+2.9
50				1.4	+2.8
(4.2)			50	1.6	+2.6
2:35	0.1	+4.1		2.2	+2.0
	0.2	+4.0		2.8	+1.4
	0.2	+4.0	(4.1)	3.8	+0.4
1+00	0.3	+3.9	2:40	4.7	0.5
	0.4	+3.8	3+00	5.5	1.3
	0.5	+3.7		6.0	1.8
	0.5	+3.7		6.4	2.2
	0.7	+3.5		6.7	2.5
50	0.7	+3.5		7.0	2.8
	0.8	+3.4	50	7.0	2.8
	0.9	+3.3		7.3	3.1
	0.9	+3.3		7.8	3.6

STAN 124 +00 CONT EAST

DIST	Sound	ELEV	DIST	Sound	ELEV
(4.2)	8.0	3.8	(4.2)	2.5	+1.7
	7.7	3.5		2.9	+1.3
4+00	7.8	3.6	6+00	2.9	+1.3
	7.8	3.6		2.7	+1.5
	7.7	3.5		2.3	+1.9
	7.9	3.7		3.0	+1.2
	7.7	3.5		2.9	+1.3
50	6.0	1.8	50	2.6	+1.6
	5.0	0.8		1.7	+2.5
	3.4	+0.8		1.1	+3.1
	2.9	+1.3		1.1	+3.1
	2.0	+2.2	(4.1)	1.0	+3.1
5+00	1.7	+2.5	2:45 7+00	1.0	+3.1
	1.4	+2.8		1.0	+3.1
	1.7	+2.5		1.0	+3.1
	1.5	+2.7		1.0	+3.1
	1.4	+2.8		1.0	+3.1
50	1.4	+2.8	50	1.0	+3.1
	1.5	+2.7		1.0	+3.1
	2.5	+1.7		1.0	+3.1

STAN 124 +00 CONT EAST

DIST	Sound	ELEV	DIST	Sound	ELEV
	1.0	+3.1	4.0	2.0	+2.0
	1.0	+3.1		2.7	+1.3
8+00	1.1	+3.0	10+00	2.8	+1.2
	1.0	+3.1		2.3	+1.7
	1.1	+3.0		2.5	+1.5
	1.9	+2.2		2.2	+1.8
	5.0	0.8		2.4	+1.6
50	7.1	3.0	50	2.4	+1.6
	7.1	3.0		2.4	+1.6
	7.1	3.0		2.2	+1.8
	7.0	2.9		2.5	+1.5
	5.4	1.2		2.9	+1.1
9+00	4.7	0.6	11+00	3.0	+1.0
	4.0	+0.1		3.1	+0.9
(4.0)	2.8	+1.2		3.4	+0.6
2:50	2.3	+1.7		3.8	+0.2
	2.7	+1.3		3.8	+0.2
50	2.0	+2.0	50	3.8	+0.2
	1.9	+2.1		3.7	+0.3
	1.9	+2.1		3.7	+0.3
				3.7	+0.3
				3.2	+0.8
				3.0	+1.0

See page 41 - FB 114 7-10-59						STA N/26 +00 CONT EAST									
STA	N/26+00; 0+00 = W 11350 = SOUND EAST		DIST			SOUND		ELEV		DIST		SOUND		ELEV.	
DIST	SOUND	ELEV	DIST	SOUND	ELEV										
						6.2	1.8			2.4	+2.0				
0+00			(4.4)	2.2	+2.2	(4.4)	4.5	0.1		2.4	+2.0				
(4.4)			2+00	2.2	+2.2	1145 4+00	3.2	+1.2	6+00	2.0	+2.4				
1:35	0.1	+4.3		2.5	+1.9		2.8	+1.6		2.3	+2.1				
	0.2	+4.2		3.5	+0.9		2.2	+2.2		3.2	+2.2				
	0.3	+4.1		5.2	0.8		3.2	+2.2		2.2	+2.2				
50	0.5	+3.9		6.0	1.6		2.2	+2.2		2.0	+2.4				
	0.8	+3.6	50	6.6	2.7	50	2.2	+2.2	50	2.2	+2.2				
	1.0	+3.4		7.0	2.6		2.2	+2.2		2.0	+2.4				
	1.0	+3.4		8.2	3.8		2.2	+2.2		2.2	+2.2				
1:40	1.1	+3.3		9.0	4.6		2.2	+2.2		2.2	+2.2				
1+00	1.2	+3.2		9.0	4.6		2.2	+2.2		2.2	+2.2				
	1.5	+2.9	3+00	9.2	4.8	5+00	2.2	+2.2	7+00	2.2	+2.2				
	1.8	+2.6		9.0	4.6		2.2	+2.2		2.2	+2.2				
	1.8	+2.6		9.0	4.6		3.0	+1.4		2.2	+2.2				
	1.8	+2.6		9.0	4.6		3.8	+0.6		2.2	+2.2				
50	2.0	+2.4		9.0	4.6		4.2	+0.2		2.0	+2.4				
	2.0	+2.4	50	9.0	4.6	50	4.2	+0.2	50	2.6	+1.8				
	2.2	+2.2		9.0	4.6		4.2	+0.2		3.0	+1.4				
	2.2	+2.2		8.0	3.6		3.0	+1.4		3.0	+1.4				

STAN 126 + 00 CONT EAST

see FB 114-71-

7-10-59

5

DIST	Sound	ELEV	DIST	Sound	ELEV	STAN 128 + 10; 0 + 100 = W // 200	Sound	ELEV
(4.4)	2.6	+1.8		6.5	2.1	DIST	Sound	ELEV
	2.0	+2.4		8.0	3.6	^{2,05} 0 + 100	(4.3)	5.6
^{1,50} 8 + 00	2.0	+2.4	10 + 00	8.8	4.4	(4.3)	0.3	+4.0
	2.2	+2.2		8.8	4.4		1.2	+3.1
	2.2	+2.2		8.0	3.6		1.8	+2.5
	2.0	+2.4		7.0	2.6		1.9	+2.4
	2.2	+2.2		6.0	1.6	50	2.0	+2.3
50	2.4	+2.0	50	5.8	1.4		2.2	+2.1
	2.2	+2.2		5.5	1.1		2.2	+2.1
	2.4	+2.0		5.0	0.6		2.3	+2.0
	2.4	+2.0		4.5	0.1		2.7	+1.6
	2.4	+2.0		3.6	+0.8	1 + 00	3.0	+1.3
9 + 00	2.8	+1.6	11 + 00	3.5	+0.9		3.0	+1.3
	3.0	+1.4		3.2	+1.2		2.9	+1.4
	3.0	+1.4		3.4	+1.0		2.9	+1.4
	3.0	+1.4		3.4	+1.0		2.9	+1.4
	3.2	+1.2	(4.4)	3.5	+0.9	50	2.9	+1.4
50	4.0	+0.4	50	3.0	+1.4		2.9	+1.4
	5.0	0.6	11.55	3.0	+1.4		3.1	+1.2
	6.0	1.6		3.0	+1.4		3.2	0.9

STA N128400 CONT EAST

DIST	Sound	ELEV	DIST	Sound	elev
(4.3)	4.6	0.3		2.4	+1.9
	4.5	0.2		2.4	+1.9
4400	4.2	+0.1	6400	2.3	+2.0
	3.9	+0.4		2.3	+2.0
	3.0	+1.3		2.3	+2.0
	2.3	+2.0		2.4	+1.9
	2.3	+2.0		2.5	+1.8
50	2.3	+2.0	50	2.6	+1.7
	2.3	+2.0		2.7	+1.6
	2.3	+2.0		2.8	+1.5
	2.2	+2.1		2.9	+1.4
	2.3	+2.0		2.9	+1.4
5400	2.3	+2.0	7400	3.0	+1.3
	2.3	+2.0		3.2	+1.1
	2.3	+2.0		3.2	+1.1
(4.3)	2.3	+2.0		3.1	+1.2
2:10	2.3	+2.0		3.0	+1.3
50	2.3	+2.0	50	3.1	+1.2
	2.4	+1.9		3.0	+1.3
	2.4	+1.9		2.9	+1.4

STA N128400 CONT EAST

2

DIST	Sound	ELEV	DIST	Sound	elev
(4.3)	2.9	+1.4	(4.3)	3.2	+1.1
	3.0	+1.3		3.2	+1.1
8400	3.1	+1.2	10400	3.4	+0.9
	3.1	+1.2		3.4	+0.9
	2.1	+1.2		3.3	+1.0
	2.1	+1.2		3.3	+1.0
	3.2	+1.1		3.3	+1.0
50	3.2	+1.1	50	3.2	+1.1
	3.2	+1.1		3.2	+1.1
	3.2	+1.1		3.2	+1.1
	3.2	+1.1		3.2	+1.1
	3.2	+1.1	(4.3)	3.2	+1.1
9400	3.1	+1.2	2:15 11400	3.2	+1.1
	3.2	+1.1			
	3.2	+1.1			
	3.3	+1.0			
	3.3	+1.0			
50	3.1	+1.2	50		
	3.1	+1.2			
	3.1	+1.2			

8

7-10-59
SEE F 10114-72

STATION 30+00; 0+00 = W 1170

SOUND EAST			STA 130+00 CONT EAST					
DIST	SOUND	ELEV	DIST	SOUND	ELEV	DIST	SOUND	ELEV
			(4.2)	9.8	5.6	(4.2)	2.8	1.4
2:20				10.0	5.8		2.8	
0+00			(4.2)	2.0	+2.2			
(4.2)			2+00	2.0	+2.2	4+00	10.0	6+00 2.8
	0.1	+4.1		2.1	+2.1		10.0	2.8
	0.5	+3.7		2.1	+2.1		9.8	5.6 2.8
	0.8	+3.4	(4.2)	2.2	+2.0		9.2	5.0 3.0 +1.2
50	1.1	+3.1	2:25	2.2			9.0	4.8 2.8 +1.4
	1.2	+3.0	50	2.2		50	8.2	4.0 50 3.0 +1.2
	1.3	+2.9		2.2			7.0	2.8 3.1 +1.1
	1.5	+2.7		2.2			6.0	1.8 3.1 +1.1
	1.8	+2.4		2.2			4.2	0.0 3.2 +1.0
1+00	2.0	+2.2		2.2			3.0	+1.2 (4.2) 3.8 +0.4
	2.0	+2.2	3+00	2.5	+1.7	5+00	2.8	+1.4 7+00 3.8 +0.4
	1.8	+2.4		3.2	+1.0		2.8	3.0 +1.2
	2.0	+2.2		3.8	+0.4		2.8	3.0
	1.8	+2.4		5.0	0.8		2.8	3.0
50	1.8	+2.4		7.0	2.8		2.8	3.0
	1.8	+2.4	50	8.2	4.0	50	2.5	+1.7 50 3.0
	2.0	+2.2		9.0	4.8		2.6	+1.6 3.2 +1.0
	2.0	+2.2		9.5	5.3		2.8	+1.4 3.2 +1.0

STAN 130 +00 CONT EAST

Sec FB 114-72-7-10-59 9

S	DIST	Sound	ELEV	DIST	Sound	ELEV
D	(4.2)	3.5	+0.7	(4.2)	3.8	+0.4
		3.4	+0.8		3.8	+0.4
(8+00)	3.5	+0.7	10+00	3.8	+0.4	(4.1)
	3.2	+1.0		3.6	+0.6	
	3.3	+0.9		3.6	+0.6	
	3.2	+1.0		3.6	+0.6	
	3.3	+0.9	(4.1)	3.5	+0.7	
50	3.3	+0.9	2,35 50	3.5	+0.7	50
	3.2	+1.0		3.5	+0.7	
	3.3	+0.9		3.4	+0.8	
	3.2	+1.0		3.4	+0.8	
1	3.5	+0.7		3.3	+0.8	1+00
9+00	3.5	+0.7	11+00	3.8	+0.4	
	3.5	+0.7		3.8	+0.4	
	3.6	+0.6		3.8	+0.4	
	3.8	+0.4		3.6	+0.6	
	3.8	+0.4		3.6	+0.6	
50	4.0	+0.2	50	3.6	+0.6	50
	4.0	+0.2		3.6	+0.6	
	4.0	+0.2		4.0	+0.2	
				4.0	+0.2	

STAN 132 +00	DIST	Sound	ELEV	DIST	Sound	ELEV
0+00	0.1	+4.0	(4.1)	0.9	+3.2	
(4.1)	0.1	+4.0	2+00	1.0	+3.1	
	0.1	+4.0		1.0	+3.1	
	0.2	+3.9		1.1	+3.0	
	0.4	+3.7		1.1		
50	0.4	+3.7		1.1		
	0.3	+3.8	50	1.2	+2.9	
	0.3			1.0	+3.1	
	0.3			1.0		
	0.4	+3.7		1.0		
1+00	0.5	+3.6		1.1	+3.0	
	0.6	+3.5	3+00	1.1		
	0.6	+3.5		1.1		
	0.3	+3.8		1.0	+3.1	
	0.3	+3.8		1.1	+3.0	
50	0.8	+3.3		1.3	+2.8	
	0.9	+3.2	50	1.4	+2.7	
	1.0	+3.1		1.3	+2.8	
	1.0	+3.1		1.7	+2.4	

STA 132 400 CONT EAST

DIST	Sound	ELEV	DIST	Sound	ELEV
(4.1)	1.4	+2.7	(4.1)	2.3	+1.8
	1.4	+2.7		2.4	+1.7
(4+00)	1.5	+2.6	6+00	2.4	+1.7
	1.5	+2.6		2.5	+1.6
	1.8	+2.3		2.6	+1.5
	1.6	+2.5		2.8	+1.3
	1.8	+2.6		2.9	+1.2
50	1.8	+2.3	50	2.9	
	1.7	+2.4		2.9	
	1.8	+2.3		3.0	+1.1
	1.9	+2.2		3.1	+1.0
	1.9			3.1	+1.0
5+00	1.9		7+00	3.2	+0.9
	1.9			3.1	+1.0
	2.0	+2.1		3.1	
	2.0	+2.1		3.1	
	2.1	+2.0	(4.1)	3.1	
			2+55		
50	2.2	+1.9	50	3.1	
	2.3	+1.8		3.2	+0.9
	2.3	+1.8		3.5	+0.6

STAN 132 400 CONT EAST

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DIST	Sound	ELEV	DIST	Sound	ELEV
(4.1)	3.4	+0.7	(4.1)	3.1	+1.0
	4.0	+0.1		3.0	+1.1
8+00	6.4	2.3	10+00	2.6	+1.5
	8.1	4.0		2.8	+1.3
	9.4	5.3		2.7	+1.4
	10.1	6.0		2.6	+1.5
	10.2	6.1		2.7	+1.4
50	10.2	6.1	50	2.5	+1.6
	10.6	6.5		2.4	+1.7
	10.6	6.5		2.5	+1.6
	10.0	5.9		2.5	
	9.3	5.2		2.5	
9+00	8.0	3.9	11+00	2.5	
	7.1	3.0		2.4	+1.7
	6.6	2.5		2.3	+1.8
	5.0	0.9		2.6	+1.5
	4.9	0.8		2.6	+1.5
50	4.6	0.5	50	2.8	+1.3
	4.1	0.0		2.4	+1.7
	3.7	+0.4		2.8	+1.3

STAN 132+00 CONT EAST

	DIST	Sound	ELEV	DIST	Sound
(4.1)	2.6	+1.5	4.1	4.2	0.1
	2.8	+1.3		4.1	0.0
(12+00)	2.9	+1.2	14+00	4.3	0.2
	2.8	+1.3		4.3	}
	2.8	+1.3		4.3	
	2.7	+1.4		4.3	
	3.0	+1.1		4.2	0.1
50	3.1	+1.0	50	4.2	0.1
	3.0	+1.1		4.3	0.2
	2.9	+1.2		4.3	}
	3.1	+1.0		4.3	
	2.9	+1.2		4.2	0.1
13+00	3.4	+0.7	15+00	4.3	0.2
	3.5	+0.6		4.3	}
	3.6	+0.5		4.3	
(4.1)	3.7	+0.4		4.4	0.3
3+00	4.0	+0.1		4.4	0.3
50	4.1	0.0	50	4.6	0.5
	4.9	0.8		4.5	0.4
	4.0	+0.1		4.5	0.4

STAN 132+00 CONT EAST

	DIST	Sound	ELEV
(4.1)	4.5	0.4	
	4.5	0.4	
	4.7	0.6	
	4.5	0.4	
	4.6	0.5	
	4.6	0.5	

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Sound¹²

STAN 94+00; 0+00=W 120 90				STAN 92+00; 0+00=W 121 70							
SOUND WEST				SOUND WEST							
DIST	SOUND	ELEV	DIST	SOUND	ELEV	DIST	SOUND	ELEV			
0+00			17.2	15.4	0+00		16.2	14.2			
		2+00	17.0	15.0			2+00	17.2	15.2		
9:15			16.7	14.7	9:20		17.4	15.2			
			16.6	14.6			17.5	15.5			
(2.0)			16.5	14.5			17.4	15.4			
50	0.3	+1.7	16.2	14.2	50		17.4	15.4			
	0.7	+1.3	50	15.8	13.8	9:20	0.2	+1.8	50	17.3	15.3
	1.3	+0.7	15.2	13.2	(2.0)	0.7	+1.3	17.2	15.2		
	1.9	+0.1	14.7	12.7		1.2	+0.8	16.7	14.7		
	4.6	2.6	(2.0)	14.3	12.3	1.8	+0.2	(2.0)	15.5	13.5	
1+00	8.2	6.2	9:20	13.4	11.4	1+00	4.1	2.1	9:25	15.1	13.1
	10.8	8.8	3+00	12.8	10.8		8.2	6.2	3+00	14.3	12.3
	12.0	10.0				10.6	8.6				
	13.3	11.3				11.7	9.7				
	14.5	12.5				12.8	10.8				
50	15.1	13.1			50	13.8	11.8				
	16.1	14.1	50			14.0	12.0	50			
	16.8	14.8				14.4	12.4				
	17.2	15.2				15.3	13.3				

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STAN 90+00; 0+00 = W 12160		Sound WEST	
DIST	Sound	ELEV	DIST
0+00		0.9	+1.1
		1.3	+0.7
		2.0	0.0
		3.1	1.1
		5.1	3.1
50		5.8	3.8
	50	7.1	5.1
		8.7	6.7
		10.3	8.3
		12.0	10.0
1400		13.2	11.2
	3+00	14.6	12.6
		15.9	13.9
(2.0)		17.0	15.0
9:30		18.2	16.2
50		19.2	17.2
	50	19.5	17.5
9:30		19.3	17.3
	0.4	+1.6	9:35
		18.9	16.9

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STAN 88+00; 0+00 = W 12400		Sound WEST	
DIST	Sound	ELEV	DIST
0+00		9.45	14.2
		2+00	12.4
		(2.1)	15.7
			16.2
			16.9
50		17.0	14.9
	50	16.8	14.7
		16.3	14.2
		16.7	14.6
		0.1	+2.0
		0.5	+1.6
		1.1	+1.0
		1.3	+0.8
		2.2	+0.1
		7.8	5.7
	50	10.0	7.9
		9.8	7.7
	50	12.0	9.9
		13.3	11.2

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STAN 86+00 Coart West

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STAN 86+00; 0+00 = W/2600			Sound West			DIST Sound ELEV			DIST Sound ELEV		
DIST	Sound	ELEV	DIST	Sound	ELEV	(2.4)	8.9	3.5	(2.4)	12.4	10.0
0+00			(2.4)	4.1	1.7		6.7	4.3		11.9	9.5
			2+00	4.4	2.0	4+00	6.8	4.4	6+00	11.6	9.2
				6.0	3.6		6.9	4.5			
				5.5	3.1		7.1	4.7			
				5.4	3.0		8.0	5.6			
50				5.3	2.9		9.1	6.7			
			50	5.6	3.2	50	8.9	6.5	50		
				5.1	2.7		8.9	6.5			
				4.8	2.4		9.0	6.6			
				4.5	2.1	(2.4)	9.1	6.7			
1+00				4.5	2.1	10+50	9.7	7.3			
			3+00	4.6	2.2	5+00	10.1	7.7	7+00		
(2.4)				4.9	2.5		11.0	8.6			
10+45	0.1	+2.3		5.2	2.8		11.9	9.5			
	0.4	+2.0		5.2	2.8		12.2	9.8			
50	0.8	+1.6		5.1	2.7		14.0	11.6			
	1.4	+1.0	50	4.8	2.4	50	13.8	11.4	50		
	2.2	+0.2		4.9	2.5		13.1	10.7			
	4.1	1.7		5.2	2.8		13.1	10.7			

STAN 84+00; 0+00=W12920 WEST

SOUND

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00			(2.5)	11.2	8.7
			2+00	11.8	9.3
				12.2	9.7
				12.1	9.6
				12.2	9.7
50				12.3	9.8
			50	12.7	10.2
(2.5)				13.0	10.5
11:00	1.8	+0.7		13.0	10.5
	2.1	+0.4		13.3	10.8
1400	3.7	1.2		13.8	11.3
	4.9	2.4	3+00	14.0	11.5
	5.0	2.5			
	5.0	2.5			
	3.9	1.4			
50	3.0	0.5			
	7.1	4.6			
	9.1	6.6			
	10.4	7.9			

STAN 82+00; 0+00=W13210

SOUND¹⁵
WEST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
11:40 0+00	0.1	+2.8		12.0	9.1
			(2.9)	0.4	+2.5
			2+00	12.7	9.8
				0.7	+2.2
				1.2	+1.7
				1.5	+1.4
			(2.9)	12.9	10.0
50	1.9	+1.0	11:45	12.2	9.3
				2.2	+0.7
			50	12.7	9.8
				2.4	+0.5
				3.1	0.2
				6.0	3.1
1400	8.7	5.8			
	10.3	7.4	3+00		
	10.9	8.0			
	10.6	7.7			
	10.6	7.7			
50	11.2	8.3			
	11.3	8.4	50		
	11.6	8.7			
	11.7	8.8			

Sound						7-14-59					
STAN 80+00; 0+00=W/13360- WEST			WEST			STAN 78+00; 0+00=W/13620- SOUND			WEST		
DIST	Sound	ELEV	DIST	Sound	ELEV	DIST	Sound	ELEV	DIST	Sound	ELEV
11:45 0+00			(3.0)	9.4	6.4	0+00			(2.3)	11.4	9.1
(2.9)	0.1	+2.8	2+00	10.0	7.0	10:25	0.0	+2.3	2+00	11.4	}
	0.8	+2.1		9.8	6.8	(2.3)	0.3	+2.0		11.4	
	1.0	+1.9		9.4	6.4		0.6	+1.7		11.2	8.9
	1.1	+1.8		9.3	6.3		1.0	+1.3		11.1	8.8
50	1.4	+1.5		9.9	6.9	50	1.3	+1.0		10.9	8.6
	1.5	+1.4	50	10.3	7.3		1.4	+0.9	50	11.1	8.8
	1.8	+1.1		10.6	7.6		1.7	+0.6		11.1	8.8
	2.1	+0.8		10.8	7.8		1.9	+0.4		11.7	9.4
	2.1	+0.8	(3.0)	10.5	7.5		2.3	0.0		11.6	9.3
1+00	2.3	+0.6	11:50	11.0	8.0	1+00	4.7	2.4		11.7	9.4
	2.6	+0.3	3+00	11.3	8.3		6.2	3.9	3+00	13.0	10.7
	2.7	+0.2		11.3	8.3		7.1	4.8		13.1	10.8
	2.8	+0.1		11.3	8.3		9.3	7.0		13.0	10.7
	2.9	0.0		11.8	8.9		9.9	7.6		12.8	10.5
50	3.0	0.1		12.0	9.0	50	11.0	8.7		12.3	10.0
	3.5	0.6	50	12.4	9.4		11.0	8.7	50	12.3	10.0
	6.1	3.2					11.2	8.9	(2.3)	12.0	9.7
	7.8	4.9					11.3	9.0	10:30	11.9	9.6

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STAN 7200; 0+00=W 14120 Sound West				STAN 7000; 0+00=W 13990 Sound West							
DIST	Sound	FLEV	DIST	Sound	FLEV	DIST	Sound	FLEV	DIST	Sound	FLEV
0+00				11.5	9.2	0+00				9.8	7.4
10:50	0.9	+1.4	2+00	11.5	9.2				2+00	10.0	7.6
(2.3)	1.9	+0.4		11.3	9.0	(2.4)				10.0	7.6
	2.3	0.0		11.4	9.1	10:55	0.2	+2.2		10.2	7.8
	2.7	0.4		11.3	9.0		0.6	+1.8	(2.4)	10.2	7.8
50	3.2	0.9		11.3	9.0	50	0.9	+1.5	11:00	10.4	8.0
	6.8	4.5	50	11.5	9.2		1.0	+1.4	50	10.4	8.0
	10.0	7.7		12.0	9.7		1.2	+1.2		10.2	7.8
	10.2	7.9		12.0	9.7		1.6	+0.8		10.2	7.8
	10.9	8.6		12.0	9.7		2.0	+0.4		10.2	7.8
1+00	10.7	8.4		11.8	9.5	1+00	2.8	0.4		10.4	8.0
	11.2	8.9	3+00	12.0	9.7		7.0	4.6	3+00	10.4	8.0
	11.4	9.1		12.1	9.8		8.4	6.0		10.0	7.6
	11.5	9.2		12.2	9.9		8.9	6.5		10.0	7.6
	11.5	9.2		12.2	9.9		9.9	7.5		10.0	7.6
50	11.4	9.1		11.9	9.6	50	10.2	7.8		10.5	8.1
	11.8	9.5	50	11.7	9.4		10.0	7.6	50	10.6	8.2
	11.8						9.8	7.4		11.0	8.6
	11.8						9.8	7.4		11.2	8.8

STAN 70+00 CONT WEST

DIST SOUND ELEV

(2.4) 11.2 8.8

11.0 8.6

4+00 11.0 8.6

11.2 8.8

(2.4) 11.4 9.0

12.0 9.6

11:05 12.2 9.8

50 12.2 9.8

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STAN 68+00 } 0+00 = W 13850 SOUND WEST

DIST SOUND ELEV DIST SOUND ELEV

0+00 9.8 7.3

2+00 10.0 7.5

10.0 7.5

11:10 9.8 7.3

(2.5) 0.5 +2.0 9.8 7.3

50 1.0 +1.5 10.0 7.5

1.8 +0.7 50 10.0

3.0 0.5 10.0

6.8 4.3 10.2 7.7

8.0 5.5 10.0 7.5

1+00 8.8 6.3 10.2 7.7

9.0 6.5 3+00 10.4 7.9

10.0 7.5 10.8 8.3

10.0 10.8 8.3

10.0 10.6 8.1

50 10.0 10.4 7.9

10.0 50 10.4 7.9

10.0 10.4 7.9

9.8 7.3 10.4 7.9

STAN 68700 CONT WEST

20

DIST	Sound	ELEV	DIST	Sound	ELEV	STAN 66700	DIST	Sound	ELEV	DIST	Sound	ELEV	
2.5	10.4	7.9		9.4	6.9								
	11.0	8.5		8.8	6.3						8.0	5.4	
4+00	11.0	}	6+00	8.8	6.3	11:25	0.2	+2.4	2+00	8.2	5.6		
	11.0				7.5	5.0	(2.6)	1.2	+1.4		8.5	5.9	
	11.0				6.8	4.3		5.2	2.6		8.8	6.2	
	10.8		8.3		6.0	3.5		7.0	4.4		9.0	6.4	
	11.0		8.5		5.5	3.0	50	7.2	4.6		9.5	6.9	
50	11.0	}	50				7.6	5.0	50	9.5	6.9		
	11.0							8.0	5.4		9.5		
	11.0							7.2	4.6		9.5		
(2.5)	11.0			Island				7.2	4.6		9.5		
11:15	10.5		8.0				1+00	7.2	4.6		9.0	6.4	
5+00	10.4	7.9					6.6	4.0	3+00	9.0			
	10.2	7.7					7.0	4.4		9.0			
	10.0	7.5					7.2	4.6		9.0			
	10.0	7.5					8.0	5.4	(2.6)	8.8	6.2		
	9.8	7.3				50	8.0		11:30	9.0	6.4		
50	9.0	6.5					8.0		50	9.0	6.4		
	9.4	6.9					8.0			8.2	5.6		
	9.4	6.9					8.0			7.8	5.2		

STAN 66400 CONT WEST

DIST SOUND ELEV DIST SOUND ELEV

(2.6) 7.0 4.4

5.8 3.2

4+00

6+00

ISLAND

50

50

5+00

7+00

50

50

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STAN 64400; 0+00=W/3700 SOUND WEST

DIST SOUND ELEV DIST SOUND ELEV

11/35
0+00 2.1 +0.6 (2.7) 8.3 5.6

(2.7) 1.9 +0.8 2+00 8.1 5.4

1.8 +0.9 8.5 5.8

1.7 +1.0 7.5 4.8

1.2 +1.5 8.5 5.8

50 1.1 +1.6 8.5 5.8

1.0 +1.7 50 8.5 5.8

1.1 +1.6 9.0 6.3

1.9 +0.8 9.0 6.3

2.0 +0.7 (2.7) 9.4 6.7

1+00 2.2 +0.5 11,40 10.0 7.3

2.7 0.0 3+00 10.0 7.3

3.1 0.4 10.2 7.5

5.0 2.3 10.2 7.5

7.7 5.0 10.1 7.4

50 8.5 5.8 10.1 7.4

8.5 5.8 50 10.0 7.3

8.0 5.3 10.0

8.2 5.5 10.0

STAN 64400 CONT West

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DIST	Sound	ELEV
(21.7)	9.9	7.2
	9.8	7.1
4400	9.7	7.0
	9.6	6.9
	9.2	6.5
	8.9	6.2
	8.2	5.5
50	7.2	4.5

Shore

5400

STAN 62400; 0+00=W/3770 SOUNDWEST

DIST	Sound	ELEV	DIST	Sound	ELEV
0+00			10.0	10.0	7.2
11.45			2+00	10.0	}
(2.8)	0.2	+2.6		10.0	
	3.0	0.2			unable to go on
	2.0	+0.8			West Contractor's
50	2.5	+0.3			equipment in way-
	7.0	4.2	50		
	8.2	5.4			
	9.2	6.4			
	9.2	6.4			
1400	9.8	7.0			
	10.0	7.2	3+00		
	10.0				
	10.0				
	10.0				
50	10.0				
	10.0		50		
	10.0				
	10.0				

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STAN 60400; 0400 = W/3850 Sound WEST

DIST	Sound	ELEV	DIST	Sound	ELEV
0400			(2.8)	10.7	7.9
11:55	0.1	+2.7	2400	10.6	7.8
(2.8)	1.5	+1.3		10.0	7.2
	2.5	+1.3		10.0	7.2
	4.3	1.5		9.9	7.1
50	7.0	4.2		9.0	6.2
	9.0	6.2	50	9.1	6.3
	10.0	7.2		8.5	5.7
	10.2	7.4		7.9	5.1
	10.3	7.5		6.0	3.2
1400	10.3	7.5		3.0	0.2
	10.4	7.6	3400	1.8	+1.0
	10.5	7.7	shore		
	10.3	7.5			
	10.5	7.7			
50	10.6	7.8			
	10.8	8.0	50		
	10.8	8.0			
	10.9	8.1			

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STAN 59400; 0400 = W/3880. Sound WEST

DIST	Sound	ELEV	DIST	Sound	elev.
0400				9.0	6.1
12:00	0.8	+2.1	2400	8.6	5.7
(2.9)	1.0	+1.9		7.8	4.9
	1.2	+1.7		4.0	1.1
	1.8	+1.1		3.0	0.1
50	2.2	+0.7		2.0	+0.9
	4.0	1.1	50 =	Shore E	
	8.0	5.1			
	9.0	6.1			
	10.0	7.1			
1400	10.2	7.3			
	10.4	7.5	3400		
	10.4				
	10.4				
	10.2	7.3			
50	10.2	7.3			
	10.0	7.1	50		
	9.8	6.9			
	9.0	6.1			

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STAN 134+00 CONT WEST

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STAN 134+00; 0+00 = W 12 000 SOUND WEST

DIST SOUND ELEV DIST SOUND ELEV

DIST	SOUND	ELEV	DIST	SOUND	ELEV	DIST	SOUND	ELEV	DIST	SOUND	ELEV
						(4.0)	4.2	0.2		16.9	12.9
1120							4.5	0.5		16.4	12.4
0+00	3.9	0.0	(3.9)	4.2	0.3						
(3.9)	4.1	0.2	2+00	4.4	0.5	4+00	4.4	0.4	6+00	16.4	12.4
	4.2	0.3		4.5	0.6		4.5	0.5			
	4.8	0.9		4.2	0.3		4.4	0.4			
	5.0	1.1		4.2	0.3	(4.0)	4.5	0.5			
50	5.3	1.4		4.7	0.8	1125	4.5	0.5			
	5.9	2.0	50	5.3	1.4	50	4.3	0.3	50		
	5.9	2.0		4.8	0.9		4.4	0.4			
	6.4	2.5		4.5	0.6		4.3	0.3			
	6.8	2.9		4.5	0.6		4.8	0.8			
1+00	7.2	3.3		4.2	0.3		4.5	0.5			
	7.0	3.1	3+00	4.2	0.3	5+00	7.1	3.1	7+00		
	6.5	2.6		4.1	0.2		9.5	5.5			
	6.0	2.1		3.9	0.0		11.1	7.1			
	5.1	1.2		3.8	+0.1		14.9	10.9			
50	5.0	1.1		3.6	+0.3		16.1	12.1			
	4.7	0.8	50	3.6	+0.3	50	16.9	12.9	50		
	4.4	0.5		3.9	0.0		16.9	12.9			
	4.3	0.4		4.2	0.3		16.9	12.9			

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SOUND

STAN 134+00 CONT EAST

25

STAN 134+00; 0+00 = W 12000 - EAST

'DIST SOUND ELEV DIST SOUND ELEV

	DIST	SOUND	ELEV	DIST	SOUND	ELEV		DIST	SOUND	ELEV	DIST	SOUND	ELEV
									2.2	+2.0	(4.2)	1.8	+2.4
					1.9	+2.2	(4.2)		2.2	+2.0		1.8	+2.4
0 0+00							1 11 35		2.0	+2.2	4+00	1.8	+2.4
(1:30)		3.8	+0.3	2+00	1.5	+2.4					6+00	1.8	+2.4
(4.1)		3.1	+1.0		1.7	+2.4			2.0	+2.2		1.7	+2.5
		3.1	+		1.7	+			1.9	+2.3		1.8	+2.4
		3.1	+		1.7	+			1.9	+2.3		1.9	+2.3
50		3.1	+		1.7	+			1.7	+2.5		1.9	
		3.0	+1.1	50	1.7	+	50		1.7	+	50	1.9	
		3.0			1.7	+			1.7	+		1.9	
		3.0			1.6	+2.5			1.7	+		1.7	+2.5
		3.0			1.6	+2.5			1.7	+		1.8	+2.4
1/400		2.7	+1.4		1.7	+2.4			1.5	+2.7		1.7	+2.5
		2.5	+1.6	3+00	1.8	+2.3	5+00		1.7	+2.8	7+00	1.9	+2.3
		2.5	+1.6		1.9	+2.2			1.4	+2.8		2.0	+2.2
		2.4	+1.7		1.9	+2.2			1.4	+2.8		2.0	
		2.4	+1.7		2.0	+2.1			1.5	+2.7		2.0	
50		2.0	+2.1		2.0	+2.1			1.5	+2.7		2.0	
		2.0		50	2.1	+2.0	50		1.6	+2.6	50	2.3	+1.9
		2.0			2.1	+2.0			1.7	+2.5		2.1	+2.1
		2.0			2.2	+1.9			1.5	+2.7		2.2	+2.0

STAN 134+00 CONT EAST

DIST	Sound	ELEV	DIST	Sound
(4.2)	2.2	+2.0	(4.2)	2.8 +1.4
	2.2	+		3.1 +1.1
(8+00)	2.2	+	10+00	3.1 +1.1
	2.2	+		2.7 +1.5
	2.3	+1.9		2.9 +1.3
	2.3	+		2.6 +1.6
	2.3	+		2.5 +1.7
50	2.2	+2.0	50	2.9 +1.3
	2.4	+1.8		2.6 +1.6
	2.4	+1.8		3.0 +1.2
	2.5	+1.7		3.2 +1.0
	2.5	+1.7	(4.3)	3.2 +1.1
9+00	2.5	+1.7	11+00	3.2 +1.1
	2.8	+1.4		3.1 +1.2
	2.9	+1.3		3.1 +1.2
	3.0	+1.2		3.0 +1.3
	2.9	+1.3		3.2 +1.1
50	2.8	+1.4	50	3.4 +0.9
	2.9	+1.3		3.5 +0.8
	2.9	+1.3		3.5 +0.8

STAN 134+00 CONT EAST 25

DIST	Sound	ELEV	DIST	Sound	ELEV
(4.3)	3.5	+0.8		4.1	+0.2
	3.4	+0.9		3.0	+1.3
	3.4	+	12+00	3.4	+
	3.4	+	14+00	3.5	+0.8
	3.4	+		3.9	+0.4
	3.2	+1.1		5.1	0.8
	3.3	+1.0		5.1	0.8
	3.4	+0.9	(4.4)	7.1	2.7
	3.4	+	11+45	7.8	3.4
50	3.4	+	50	7.8	3.4
	3.4	+		8.0	3.6
	3.5	+0.8		8.0	3.6
	3.5	+		7.7	3.3
	3.5	+		7.0	2.6
	3.8	+0.8		6.4	2.0
	3.7	+0.6		6.0	1.6
	4.0	+0.3		5.3	0.9
	3.9	+0.4		4.7	0.3
50	3.9	+0.4	50	4.0	+0.4
	4.0	+0.3		3.2	+1.2
	4.0	+0.3		2.8	+1.6

STAN 134400 CONT EAST

DIST	Sound	ELEV	DIST	Sound	ELEV
(4.4)	2.7	+1.7	(4.4)	2.6	+1.8
	2.9	+1.5		2.9	+1.5
16+00	2.9	+1.5	18+00	2.8	+1.6
	2.5	+1.9		2.1	+2.3
	2.6	+1.8		2.9	+1.5
	2.3	+2.1		2.9	+
	2.5	+1.9		2.9	
50	2.5	+1.9	50	2.8	+1.6
	2.5	+1.9		3.0	+1.4
	2.6	+1.8		3.0	
	2.7	+1.7		3.0	
	2.7	+1.7		3.1	+1.3
17+00	2.4	+2.0	19+00	3.2	+1.2
	2.7	+1.7		3.3	+1.1
	2.5	+1.9		3.1	+1.3
	2.5	+1.9		3.1	+1.3
	2.5	+1.9		3.4	+1.0
50	2.7	+1.7	50	3.5	+0.9
	2.8	+1.6		3.4	+1.0
	2.7	+1.7		3.6	+0.8

STAN 134400 CONT EAST

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DIST	Sound	ELEV	DIST	Sound	ELEV
(4.4)	3.8	+0.6		4.5	0.1
1.50	3.8	+0.6		4.6	0.2
20+00	4.0	+0.4	22+00	4.7	0.3
	4.1	+0.3		4.5	0.1
	4.0	+0.4		4.5	0.1
	4.0	+			
	4.0	+			
50	4.0	+	50		
	4.2	+0.2			
	4.1	+0.3			
	4.1	+			
	4.1	+			
21+00	4.1	+			
	4.1	+			
	4.5	0.1			
	4.5	0.1			
	4.5	0.1			
50	4.5		50		
	4.5				
	4.5				

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STAN 136400 Cont West

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STAN 136400; 0400=W 12000-SOUND WEST						DIST Sound elev DIST Sound ELEV					
DIST	Sound	ELEV	DIST	Sound	elev.	(4.5)	7.4	2.9	(4.6)	13.7	9.1
2:05 0400	5.4	0.9	2:10	5.5	1.0		7.2	2.7		14.2	9.6
(4.5)	5.4	0.9	2400	5.6	1.1	4400	7.3	2.8	6400	14.2	9.6
	5.3	0.8	(4.5)	5.7	1.2		7.2	2.7		14.2	9.6
	5.3	0.8		5.8	1.3		7.2	2.7		14.2	9.6
	5.3	0.7		6.1	1.6		7.1	2.6	(4.6)	14.1	9.5
50	5.0	0.5		6.2	1.7		7.1	2.6		14.1	9.5
	5.0	0.5	50	6.2	1.7	50	7.1	2.6	2:15 50	14.3	9.7
	5.1	0.6		6.2	1.7		7.1	2.6			
	5.0	0.5		6.3	1.8		7.2	2.7			
	5.0			6.3			7.2				
1400	5.0			6.3			7.2				
	5.0		3400	7.0	2.5	5400	7.3	2.8	7400		
	5.1	0.6		7.1	2.6		7.3	2.8			
	4.9	0.4		7.1			7.2	2.7			
	5.1	0.6		7.1			7.4	2.9			
50	5.2	0.7		7.1			7.8	3.3			
	5.1	0.6	50	7.1		50	8.3	2.8	50		
	5.3	0.8		7.1			9.0	4.5			
	5.4	0.9		7.5	3.0		12.0	7.5			

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STAN 136+00 SOUND EAST CONT 29

STAN 136+00; 0+00 = W 12.000			Sound EAST DIST			Sound elev			DIST Sound ELEV		
DIST	Sound elev	DIST	Sound ELEV	(4.7)	3.5 + 1.2	(4.7)	4.0 + 0.7				
0+00		4.7	4.2 + 0.5		3.5 + 1.2		3.8 + 0.9				
2:20	5.8	1.1	2+00 4.2 + 0.5	4+00	3.7 + 1.0	6+00	4.0 + 0.7				
(4.7)	6.0	1.3	4.1 + 0.6		3.6 + 1.1		4.0 +				
	6.0	1.3	4.0 + 0.7		3.5 + 1.2		4.0 +				
	5.8	1.1	4.0 + 0.7		3.6 + 1.1		4.0 +				
50	5.5	0.8	4.0 + 0.7		3.7 + 1.0		4.0 +				
	5.4	0.7	50 3.8 + 0.9	50	3.7 + 1.0	50	4.0 +				
	5.3	0.6	3.8 +		3.7 + 1.0		4.1 + 0.6				
	5.3		3.8 +		3.6 + 1.1		4.2 + 0.5				
	5.3		3.8 +		3.7 + 1.0		4.2 +				
1+00	5.0	0.3	3.7 + 1.0		3.7 + 1.0		4.2 +				
	5.0	0.3	3+00 3.6 + 1.1	5+00	3.7 + 1.0	7+00	4.3 + 0.4				
	4.9	0.2	3.6 + 1.1		3.6 + 1.1		4.3 +				
	4.9		3.6 + 1.1		3.6 +		4.3 +				
	4.9		3.5 + 1.2		3.6 +		4.2 + 0.5				
50	4.9		3.5 + 1.2		3.6 +		4.2 +				
	4.9		50 3.5 + 1.2	50	3.9 + 0.8	50	4.2 +				
	4.6	+ 0.1	3.5 + 1.2		3.7 + 1.0		4.4 + 0.3				
	4.4	+ 0.3	3.5 + 1.2		3.8 + 0.9		4.4 + 0.3				

DIST	Sound	ELEV	DIST	Sound	elev.	DIST	Sound	elev	DIST	Sound	ELEV
(4.7)	4.2	+0.5		4.8	0.1	4.7	4.9	0.2	(4.7)	5.1	0.4
	4.3	+0.4		4.8			4.9	0.2		5.1	0.4
8+00	4.3	+0.4	10+00	4.8		12+00	4.9	0.2	14+00	5.4	0.7
	4.2	+0.5		4.7	0.0		5.0	0.3		6.0	1.3
	4.2	+		4.7	0.0		4.9	0.2		5.6	0.9
	4.2	+		4.8	0.1		4.9	0.2		5.7	1.0
	4.2	+		4.8			4.8	0.1		5.8	1.1
50	4.2	+	50	4.8		50	4.8		50	5.8	1.1
	4.3	+0.4		4.8			4.8			5.7	1.0
	4.3	+0.4		4.9	0.2		4.8			5.4	0.7
	4.4	+0.3		4.9	0.2		4.8			5.3	0.6
	4.5	+0.2		5.0	0.3		4.8			5.2	0.5
9+00	4.6	+0.1	11+00	5.0		13+00	4.8		12+00	5.0	0.3
	4.6	+0.1		5.0			4.9	0.2		5.0	0.3
	4.6	+0.1		5.0			4.8	0.1		5.0	0.3
	4.7	0.0	(4.7)	4.9	0.2		4.8	0.1	(4.8)	5.1	0.3
	4.7	0.0		4.9	0.2		4.9	0.2		5.2	0.4
50	4.6	+0.1	2:25 50	4.8	0.1	50	4.9	0.2	2:30 50	5.6	0.8
	4.9	0.2		4.8	0.1		5.0	0.3		5.9	1.1
	4.7	0.0		5.0	0.3		5.0	0.3		6.2	1.4

STAN 136700 CONT EAST

DIST	Sound	elev	DIST	Sound	elev
(4.8)	6.7	1.9	(4.8)	3.2	+1.6
	7.1	2.3		3.2	+1.6
16+00	7.2	2.4	18+00	3.3	+1.5
	7.3	2.5		3.2	+1.6
	7.3			3.2	+
	7.3			3.2	+
	7.0	2.2		3.2	+
50	6.4	1.6	50	3.2	+
	6.0	1.2		3.2	+
	5.2	0.4		3.2	+
	4.5	+0.3		3.3	+1.5
	4.0	+0.8		3.3	+1.5
17+00	3.2	+1.6	19+00	3.4	+1.4
	3.2	+1.6		3.4	+1.4
	3.2	+1.6		3.7	+1.1
	3.3	+1.5		4.0	+0.8
	3.2	+1.6		4.0	+
50	3.2	+	50	4.0	+
	3.2	+		4.5	+0.3
	3.2	+		4.4	+0.4

STAN 136700 CONT EAST

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DIST	Sound	elev	DIST	Sound	elev
(4.8)	4.3	+0.5		4.9	0.0
	4.6	+0.2	(4.9)	4.9	0.0
			2135		
20+00	4.7	+0.1	22+00	4.9	0.0
	4.7	+0.1		5.0	0.1
	4.7	+0.1		4.9	0.0
	4.8	0.0		5.0	0.1
	4.9	0.1		5.0	
50	4.9	0.1	50	5.0	
	4.9	0.1		5.0	
	4.8	0.0		5.0	
	4.7	+0.1		5.0	
	4.6	+0.2		5.0	
21+00	4.6	+0.2	23+00	5.0	
	4.8	0.0		5.1	0.2
	4.8	0.0		5.1	
	4.8	0.0		5.1	
	4.8	0.0		5.1	
50	5.0	0.2	50	5.1	
	5.0				
	5.0				

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STAN 138+00					
DIST	SOUND	ELEV	DIST	SOUND	ELEV
0400			(4.3)	5.0	0.7
2:50	7.0	2.7	2400	5.0	0.7
(4.3)	7.1	2.8		5.2	0.9
	7.1	2.8		5.0	0.7
	7.2	2.9		4.8	0.5
50	7.2	2.9		4.7	0.4
	7.3	3.0	50	4.4	0.1
	7.3			4.6	0.3
	7.3			4.3	0.0
	7.3			4.3	0.0
1400	7.3			4.2	+0.1
	7.2	2.9	3400	4.1	+0.2
	7.2			4.0	+0.3
	7.2			4.0	
	7.3	3.0		4.0	
50	7.2	2.9		4.0	
	6.8	2.5	50	4.0	
	5.8	1.5		4.0	
	5.2	0.9		4.0	

STAN 138+00 CONT WEST

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STAN 138+00 CONT WEST					
DIST	SOUND	ELEV	DIST	SOUND	ELEV
(4.3)	4.0	+0.3		4.2	+0.1
	3.9	+0.4		4.7	0.4
4400	3.9		6400	6.5	2.3
	3.9			10.1	5.8
	3.9			12.1	7.8
	3.9		(4.4)	13.3	8.9
	3.9		2:55	13.2	8.8
50	3.7	+0.6	50	13.0	8.6
	3.6	+0.7		12.9	8.5
	3.6			12.9	8.5
	3.6			13.2	8.8
	3.6			13.8	9.4
5400	3.9	+0.4	7400	13.7	9.3
	3.8	+0.5			
	3.7	+0.6			
	3.7	+0.6			
	3.4	+0.9			
50	3.6	+0.7			
	3.8	+0.5			
	4.1	+0.2			

STAN 138700, 0410=W 12000 Sound EAST				DIST Sound elev DIST Sound elev						
				(4.4)	4.0	+0.4	(4.4)	4.0	+0.4	
3100										
0400	7.0	2.6	(4.4)	5.0	0.6		4.0	+0.4		
(4.4)	6.9	2.5	2400	5.0	0.6	4400	3.9	+0.5	6400	4.0
	6.0	1.6		5.0	0.6		3.9	+0.5		4.0
	5.2	0.8		4.9	0.5		3.5	+0.9		4.0
	5.2	0.8		4.8	0.4		3.5			4.1 +0.3
50	5.1	0.7		4.8			3.5			4.1
	5.2	0.8	50	4.8		50	3.5		50	4.1
	5.0	0.6		4.8			3.5			4.2 +0.2
	5.0			4.8			3.6 +0.8			4.3 +0.1
	5.0			4.8			3.6 +0.8			4.3 +0.1
1400	5.0			4.9	0.5		3.7 +0.7	(4.5)		4.4 +0.1
	5.0		3400	4.8	0.4	5400	3.7		3105	4.5
	5.0			4.5	0.1		3.7		7400	4.5
	5.0			4.5	0.1		3.7			4.5
	5.0			4.3	+0.1		3.7			4.6
50	4.9	0.5		4.3	+0.1		3.7			4.9
	4.9	0.5	50	4.2	+0.2	50	3.8 +0.6			5.0
	5.0	0.6		4.1	+0.3		3.9 +0.5	50		5.1
	5.0	0.6		4.1	+0.3		3.9 +0.5			5.3
	5.0	0.6		4.1	+0.3		4.0 +0.4			5.3

STAN 138+00 CONT EAST

DIST	Sound	ELEV	DIST	Sound	elev
(4.5)	5.3	0.8	(4.5)	6.0	1.5
	5.5	1.0		6.0	
8+00	5.7	1.2	10+00	6.0	
	5.8	1.3		6.0	
	5.8	1.3		5.8	1.3
	5.9	1.4		5.5	1.0
	6.0	1.5		5.5	1.0
50	6.0		50	5.2	0.7
	6.0			5.0	0.5
	6.0			5.0	0.5
	6.0			4.9	0.4
	6.0			4.9	
9+00	6.0		11+00	4.9	
	6.0			4.8	0.3
	6.0			4.7	0.2
	6.2	1.7		4.5	0.0
	6.2	1.7		4.3	+0.2
50	6.1	1.6	50	4.3	+0.2
	6.0	1.5		4.3	+0.2
	6.0	1.5		4.3	+0.2

STAN 138+00 CONT EAST

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DIST	Sound	elev	DIST	Sound	elev
(4.5)	4.2	+0.3	(4.6)	4.9	0.3
	4.2	+0.3		5.0	0.4
12+00	4.3	+0.2	14+00	5.0	
	4.3	+0.2		5.0	
	4.5	+0.0		5.0	
	4.5	+0.1	(4.6)	5.0	
3+10	4.5	+0.1		5.2	0.6
50	4.5		50	5.2	0.6
	4.5			5.0	0.4
	4.5			5.0	
	4.5			5.0	
	4.5			5.0	
	4.5			5.0	
13+00	4.5		15+00	5.0	
	4.7	0.1		5.0	
	4.7	0.1		5.0	
	4.8	0.2		5.2	0.6
	4.8			5.2	
50	4.8		50	5.2	
	4.9	0.3		5.1	0.5
	4.8	0.2		5.2	0.6

STAN 138+00 cont EAST

DIST	Sound	elev	DIST	Sound	elev
(4.6)	5.2	0.6	(4.7)	5.5	0.8
	5.2			5.3	0.6
16+00	5.2		18+00	5.0	0.3
	5.0	0.4		4.5	+0.2
	5.2	0.6		4.2	+0.5
	5.5	0.9		4.2	+0.5
	5.6	1.0		4.0	+0.7
50	5.7	1.1	50	4.0	
	6.0	1.4		4.0	
	6.3	1.7		4.0	
(4.7)	6.5	1.9		4.0	
3115	6.9	2.2		4.0	
17+00	7.1	2.4	19+00	4.3	+0.4
	7.2	2.5		4.7	0.0
	7.5	2.8		4.5	+0.2
	7.5	2.8		4.5	+0.2
	7.2	2.5		4.3	+0.4
50	7.2	2.5	50	4.9	0.2
	7.0	2.3		4.5	+0.2
	6.0	1.3		4.6	+0.1

STAN 138+00 cont EAST

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DIST	Sound	elev	DIST	Sound	elev
(4.7)	4.6	+0.1	(4.8)	4.5	+0.2
	4.6	+0.1		4.5	+0.3
20+00	4.6	+0.1	3120	4.5	
	5.0	0.3	22+00	4.5	
	4.9	0.2		4.5	
	4.9	0.2		4.5	
	4.9	0.2		4.5	
50	4.5	+0.2	50	4.5	
	4.5	+0.2		4.5	
	4.5	+0.2		4.9	0.1
	4.7	0.0		4.9	
	4.7	0.0		4.9	
21+00	4.7	0.0	23+00	5.0	0.2
	4.5	+0.2		5.0	
	4.5			5.0	
	4.5			5.0	
	4.5			5.0	
50	4.5		50	5.0	
	4.6	+0.1	60	5.0	
	4.5	+0.2	70	5.0	
			80	5.0	
			90	5.0	

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STA N140 +00 CONT WEST

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STA N140+00; 0+00=W 12000-SOUND WEST						STA N140 +00 CONT WEST					
DIST	Sound	elev	DIST	Sound	elev	DIST	Sound	elev	DIST	Sound	elev
						(2.7)	13.6	10.9	(2.7)	12.1	9.4
11:00	6.4	3.7	(2.7)	11.7	9.0		13.4	10.7		12.2	9.5
(2.7)	6.4	3.7	2+00	11.4	8.7	4+00	13.3	10.6	6+00	12.2	
	6.3	3.6		11.3	8.6		13.2	10.5		12.2	
	6.1	3.4		11.7	9.0		13.1	10.4		12.1	9.4
	6.9	4.2		12.0	9.3		13.1			12.1	
50	7.1	4.4		12.0	9.3		13.1			12.1	
	7.1	4.4	11:05	11.8	9.1	50	13.1		50	12.0	9.3
	7.5	4.8		12.1	9.4		13.1			12.1	9.4
	7.5	4.8		12.0	9.3		13.0	10.3		14.0	11.3
	7.9	5.2		12.8	10.1		13.0	10.3		15.2	12.5
1+00	8.6	5.9		12.9	10.2		12.8	10.1		15.1	12.4
	9.3	6.6	3+00	13.0	10.3	5+00	12.6	9.9	7+00	15.0	12.3
	10.1	7.4		13.2	10.5		12.5	9.8		14.2	11.5
	10.3	7.6		13.7	11.0		12.5	9.8		14.2	11.5
	10.8	8.1		13.9	11.2		12.4	9.7		14.1	11.4
50	11.2	8.5		14.0	11.3		12.4	9.7		14.1	11.4
	11.3	8.6	50	13.9	11.2	50	12.3	9.6	50	14.3	11.6
	11.4	8.7		13.9	11.2		12.3			14.2	11.5
	11.7	9.0		13.7	11.0		12.3		11:10	14.8	12.1

STAN 140+00						STAN 140+00 CONT EAST					
DIST			Sound elev			DIST			Sound elev		
0+00				3.4	0.7		2.4	+0.3		1.8	+0.9
11:15	6.2	3.5	2+00	3.0	0.3	4+00	2.4	+0.3	6+00	1.8	+0.9
(2.7)	6.0	3.3		3.3	0.6		2.4	+0.3		1.8	+0.9
	6.0	3.3		3.0	0.3		2.4	+0.3		1.8	+0.9
	6.1	3.4		3.1	0.4		2.4	+0.3		1.8	+0.9
50	6.0	3.3		3.1	0.4		2.3	+0.4		1.8	+0.9
	6.0	3.3	50	3.1	0.4	50	2.3	+0.4	50	1.8	+0.9
	6.0	3.3		3.0	0.3		2.3	+0.4		1.7	+1.0
	5.8	3.1		3.0	0.3		2.3	+0.4		1.7	+1.0
	5.7	3.0		3.0	0.3		2.3	+0.4	(2.6)	1.6	+1.0
1+00	5.8	3.1		3.0	0.3		2.2	+0.5	11:20	1.6	+1.0
	5.8	3.1	3+00	3.0	0.3	5+00	2.2	+0.5	7+00	1.6	+1.0
	5.8	3.1		3.0	0.3		2.1	+0.6		1.7	+0.9
	5.5	2.8		3.0	0.3		2.0	+0.7		1.7	+0.9
	5.5	2.8		2.9	0.2		2.0	+0.7		1.8	+0.8
50	5.0	2.3		2.9	0.2		1.9	+0.8		1.6	+1.0
	4.0	1.3	50	2.8	0.1	50	1.8	+0.9	50	1.6	+1.0
	3.9	1.2		2.6	+0.1		1.8	+0.9		1.7	+0.9
	3.3	0.6		2.4	+0.3		1.8	+0.9		1.5	+1.1

STAN 140700 CONT EAST

DIST	Sound elev	DIST	Sound elev
(2.6)	1.5 +1.1		1.9 +0.7
	1.6 +1.0		1.9
8 fms	1.8 +0.8	10 fms	1.9
	1.8 +0.8		2.0 +0.6
	1.9 +0.7		1.9 +0.7
	1.9		1.9
	1.9		1.9
50	1.9	50	1.9
	1.8 +0.8		2.0 +0.6
	1.8		1.9 +0.7
	1.8		2.0 +0.6
	1.9 +0.7		2.0
9 fms	1.9	11 fms	2.0
	1.9		2.1 +0.5
	1.9		2.0 +0.6
	1.9		2.1 +0.5
	1.9		2.0 +0.6
50	1.9	50	2.1 +0.5
	1.9		2.1
	1.9		2.1

STAN 140700 CONT EAST 38

DIST	Sound elev	DIST	Sound elev
	2.1 +0.5		2.3 +0.3
	2.1		2.4 +0.2
12 fms	2.1	14 fms	2.4 +0.2
	2.1		2.3 +0.3
	2.1		2.4 +0.2
	2.1		2.6 0.0
	2.4 +0.2		2.5 +0.1
50	2.3 +0.3	50	2.5
	2.2 +0.4		2.5
	2.2		2.7 0.1
	2.2		2.6 0.0
	2.2		2.8 0.2
	2.3 +0.3	15 fms	2.8 0.2
	2.3 +0.3		2.8 0.2
	2.2 +0.4	(2.6)	2.9 0.3
	2.2	11.25	2.9
	2.2		2.9
50	2.2	50	2.9
	2.2		2.9
	2.4 +0.2		2.9

STAN N140 + 00 CONT EAST

DIST	Sound	ELEV	DIST	Sound	elev
(2.6)	3.0	0.4	(2.6)	3.4	0.8
	3.1	0.5		3.4	
16+00	3.1	0.5	18+00	3.4	
	3.0	0.4		3.6	1.0
	3.0	0.4		3.5	0.9
	3.1	0.5		3.3	0.7
	3.2	0.6		3.2	0.6
50	3.2		50	3.2	
	3.2			3.2	
	3.2			3.2	
(2.6)	3.2			3.4	0.8
11:30	3.5	0.9		3.5	0.9
17+00	3.6	1.0	19+00	3.7	1.1
	3.3	0.7		3.7	1.1
	3.4	0.8		3.5	0.9
	3.6	1.0		3.4	0.8
	3.5	0.9		3.3	0.7
50	3.4	0.8	50	3.4	0.8
	3.4	0.8		3.4	0.8
	3.4	0.8		3.7	0.9

STAN N140 + 00 CONT EAST 39

DIST	Sound	elev	DIST	Sound	elev
(2.6)	3.4	0.8	(2.6)	2.2	+0.4
	3.4	0.8		2.2	+0.4
20+00	3.2	0.6	22+00	2.3	+0.3
	3.2	0.6		2.3	+0.3
	3.0	0.4		2.2	+0.4
	3.0	0.4		2.3	+0.3
	2.8	0.2		2.2	+0.4
50	2.4	+0.2	50	2.2	+0.4
	2.2	+0.4		2.2	+0.4
	2.2	+0.4		2.4	+0.2
	2.3	+0.3		2.6	0.0
	2.2	+0.4		2.4	+0.2
21+00	2.2	+0.4	23+00	2.3	+0.3
	2.3	+0.3		2.2	+0.4
	2.2	+0.4		2.2	+0.4
	2.2	+0.4		2.2	+0.4
	2.1	+0.5		2.3	+0.3
50	2.2	+0.4	50	2.3	+0.3
	2.1	+0.5		2.3	+0.3
	2.1	+0.5		2.3	+0.3

STAN 140+00 CONT EAST

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f.

DIST Sound elev DIST Sound elev

STAN 85+00; 0+00 = 114000 Sound NORTH

(2.6) 2.4 + 0.2 (2.5) 3.0 0.5

DIST Sound elev DIST Sound elev

2.4 + 0.2 11:35 3.1 0.6

^{1:15} 0+00 2.0 + 0.5 (2.5) 2.1 + 0.4

24+00 2.4 + 0.2 26+00 3.0 0.5

(2.5) 1.9 + 0.6 2+00 2.2 + 0.3

2.3 + 0.3

2.0 + 0.5 2.0 + 0.5

2.3 + 0.3

2.0 + 0.5 2.5 0.0

2.4 + 0.2

2.0 + 0.5 2.5 0.0

2.8 0.2

50 2.1 + 0.4 2.5 0.5

50 2.8 0.2

2.1 + 0.4 50 2.6 0.1

2.8 0.2

2.2 + 0.3 2.3 + 0.2

2.9 0.3

2.0 + 0.5 2.6 0.1

2.7 0.1

2.2 + 0.3 2.4 + 0.1

2.5 + 0.1

1+00 2.0 + 0.5 2.4 + 0.1

25+00 2.6 0.0

2.1 + 0.4 3+00 2.5 0.0

2.8 0.2

2.2 + 0.3 2.8 0.3

2.8 0.2

(2.5) 2.2 + 0.3 2.5 0.0

2.8 0.2

1:20 2.3 + 0.2 2.7 0.2

2.9 0.3

50 2.8 0.3 2.7 0.2

50 3.0 0.4

2.8 0.3 50 2.6 0.1

2.9 0.3

2.2 + 0.3 2.6 0.1

2.9 0.3

2.0 + 0.5 2.7 0.2

STATION 5400 CONT NORTH

D	DIST	Sound	elev	DIST	Sound	elev
(2)	(2.5)	2.8	0.3		3.1	0.5
		2.8	0.3	(2.6)	3.1	0.5
2	4400	2.8	0.3	1:30 6400	3.1	0.5
		2.8	0.3		3.2	0.6
		2.7	0.2		3.1	0.5
	(2.5)	2.8	0.3		3.2	0.6
	1:25	2.8	0.3		3.2	0.6
2	50	2.9	0.4	50	3.3	0.7
		3.0	0.5		3.2	0.6
		3.0	0.5		3.3	0.7
		2.9	0.6		3.1	0.5
		3.0	0.5		3.2	0.6
2	5400	3.0		7400	3.4	0.8
		3.0			3.3	0.7
		3.0			3.2	0.6
		3.0			3.2	0.6
		3.0			3.5	0.9
2	50	3.0		50	3.7	1.1
		3.0			3.7	1.1
		3.0			3.5	0.9

STATION 85400 CONT NORTH

DIST	Sound	elev	DIST	Sound	elev
(2.6)	3.8	1.2	(2.6)	6.2	3.6
	3.8	1.2		7.1	4.5
8400	3.8	1.2	10400	7.5	4.9
	3.8	1.2		7.8	5.2
	3.9	1.3		7.7	5.1
	3.8	1.2		7.8	5.2
	3.9	1.3		7.8	5.2
50	3.9		50	7.7	5.1
	3.9			7.7	5.1
	3.9			7.7	5.1
(2.6)	4.0	1.4	(2.7)	7.5	4.9
1:35	4.1	1.5	1:40	8.0	5.3
9400	4.2	1.6	11400	7.5	4.8
	4.3	1.7		7.2	4.5
	4.3	1.7		7.4	4.7
	4.2	1.6		7.4	4.7
	4.3	1.7		7.4	4.7
50	4.8	2.2	50	7.1	4.4
	5.0	2.4	60	7.1	4.4
	5.9	3.3	70	7.0	4.3
			80	7.0	4.3
			90	7.0	4.3

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STA W 86+00 CONT NORTH 43

STA W 86+00		0+00 - N14000		Sound North		DIST SOUND Elev		DIST Sound elev			
DIST	SOUND	ELEV	DIST	SOUND	elev	(2.8)	2.9	0.1	3.3	0.5	
1.50	2.7	+0.1	(2.8)	2.7	+0.1		3.0	0.2	3.3	0.5	
0+00	2.5	+0.3	2+00	2.6	+0.2	4+00	3.1	0.3	6+00	3.3	0.5
(2.8)	2.4	+0.4		2.8	0.0		3.1	0.3		3.5	0.7
	2.3	+0.5		2.8	0.0		3.2	0.4		3.5	0.7
	2.2	+0.6		2.9	0.1		3.2			3.4	0.6
50	2.3	+0.5		3.0	0.2		3.2			3.4	0.6
	2.3	+0.5	50	3.1	0.3	50	3.2		50	3.6	0.8
	2.4	+0.4		3.2	0.4		3.1	0.3		3.5	0.7
	2.7	+0.1		3.1	0.3		3.0	0.2		3.6	0.8
	2.6	+0.2		3.0	0.2		3.1	0.3		3.5	0.7
1+00	2.5	+0.3		2.9	0.1		3.1			3.5	
	2.5	+0.3	3+00	2.8	0.0	5+00	3.1		7+00	3.5	
	2.5	+		2.8	0.0		3.2	0.4		3.6	0.8
	2.5	+		2.9	0.1		3.2	0.4		3.7	0.9
	2.5	+		2.9	0.1		3.1	0.3		3.7	
50	2.5	+	(2.8)	2.9	0.1		3.1	0.3		3.7	
	2.6	+0.2	11.55	3.0	0.2	50	3.2	0.4	50	3.8	1.0
	2.7	+0.1	20	2.9	0.1		3.2	0.4		3.9	1.1
	2.7	+0.1		2.9	0.1		3.2	0.4		4.0	1.2

STA W 86400 cont NORTH

STA W 86400 cont NORTH 44

DIST	Sound	elev	DIST	Sound	elev
(2.8)	4.1	1.3	(2.9)	7.8	4.9
	4.1			8.0	5.1
2800	4.1		10400	8.1	5.2
	4.1			8.1	5.2
	4.1			8.1	5.2
	4.1			8.0	5.1
	4.2	1.4		8.0	
50	4.2		50	8.0	
	4.2			7.9	5.0
	4.3	1.5		7.9	5.0
	4.3			7.8	4.9
	4.3			7.8	4.9
9400	4.5	1.7	11400	7.6	4.7
	4.9	2.1		7.4	4.5
	4.9	2.1		7.3	4.4
(2.9)	5.1	2.2		7.3	4.4
2000	5.5	2.6		7.2	4.3
50	6.3	3.4	50	7.1	4.2
	7.0	4.1		7.1	
	7.4	4.5		7.1	

DIST	Sound	elev
(2.9)	7.0	4.1
	6.7	3.8
12400	6.3	3.4
	5.9	3.0
(2.9)	4.8	1.9
	3.3	0.4
2105	2.4	+0.5
50	1.8	+1.1
	1.0	+1.9

SHORE

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STAW 88400 CONT NORTH 42

STAW 88400; 0400 = 114000 - SOUND NORTH			DIST			SOUND elev			DNT			SOUND elev		
	DIST	SOUND elev	DIST	SOUND elev	(3.1)	3.9	0.8	(3.1)	5.0	1.9				
2	2:15 0400	3.0 0.0	(3.1)	3.8 0.7		4.0	0.9		5.0					
	(3.0)	3.0 0.0	2400	4.0 0.9	4400	4.0		6400	5.0					
		3.0 0.0		3.8 0.7		4.0			5.0					
	(3.1)	3.1 0.1		3.8		4.0			4.8	1.7				
	2:20	3.2 0.1		3.8		4.0			4.8					
	50	3.2 0.1		3.6 0.5		4.0			4.8					
		3.5 0.4	50	3.6	50	4.0		50	4.8					
		3.5 0.4		3.6		4.0			4.7	1.6				
		3.5		3.6		4.2	1.1		4.6	1.5				
		3.5		3.6		4.2			4.6	1.5				
	1400	3.5		4.0 0.9		4.2			4.4	1.3				
2		3.8 0.7	3400	3.8 0.7	5400	4.2		7400	4.4					
		3.6 0.5		3.8		4.3	1.2		4.4					
		3.4 0.3		3.8		4.4	1.3		4.5	1.4				
		3.6 0.5	(3.2)	3.8		4.5	1.4		4.5	1.4				
	50	3.6 0.5	2:25	3.8		4.8	1.7		4.6	1.5				
		3.8 0.7	50	4.0 0.9	50	5.0	1.9	50	4.8	1.7				
		3.8		4.0		5.0			4.9	1.8				
		3.8		4.0		5.0			5.0	1.9				

STAW 88+00 CONT NORTH

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DIST Sound elev DIST Sound elev

STAW 90+00 Jctro-N 1/4 000- Sound North

DIST	Sound	elev	DIST	Sound	elev
(3.1)	5.0	1.9	(3.3)	9.2	5.9
	5.0		2:30	9.2	5.9
8400	5.0		10400	9.2	
	5.0			9.2	
	5.0			9.2	
	5.2	2.1		9.0	5.7
	5.2			9.0	
50	5.2		50	9.0	
	5.5	2.4		9.0	
	5.8	2.7		8.8	5.5
	6.5	3.4		8.0	4.7
	7.2	4.1		8.0	
9400	8.0	4.9	11400	8.0	
	9.5	6.4		8.0	
	9.0	5.9		7.8	4.5
	9.2	6.1		7.2	3.9
	9.0	5.9		7.0	3.7
50	9.2	6.1	50	6.5	3.2
	9.2	6.1	60	5.0	1.7
			70	3.3	0.0
			80	2.5	+0.8
	9.0	5.9	90	5.8	+1.5

DIST Sound FLEV DIST Sound elev

2:45	3.7	0.2	(3.5)	3.9	0.4
0400	3.7	0.2	(3.5)	3.9	
	3.7			3.9	
	3.7			3.9	
	3.7			3.9	
	3.7			3.9	
50	3.6	0.1		4.0	0.5
	3.6	0.1	50	3.9	0.4
	3.8	0.3		3.9	
	3.8			3.9	
	3.8			3.9	
1400	3.7	0.2		3.9	
	3.8	0.3	3400	3.9	
	3.8			4.0	0.5
	3.8			4.0	
	3.8			4.0	
50	3.8			3.9	0.4
	3.9	0.4	50	3.9	
	3.9			3.9	
	3.9			4.0	0.5

STA W 90+00 Cont NORTH

DIST	Sound elev	DIST	Sound elev
(3.5)	3.9	(3.5)	4.2
	3.9		4.2
4+00	3.9	6+00	4.2
	4.0		4.5
	4.0		4.5
	4.0		4.6
	4.0		4.7
50	4.0	50	4.7
	4.0		4.7
	4.0		4.8
	4.1		4.9
	4.1		4.9
5+00	4.0	7+00	4.9
	4.1		4.9
	4.1		4.9
	4.2		5.0
	4.2		5.0
50	4.2	50	5.1
	4.2		5.1
	4.2		5.2

STA W 90+00 Cont NORTH 47

DIST	Sound elev	DIST	Sound elev
(3.5)	5.2	(3.5)	9.3
	5.4	(3.5)	9.2
8+00	6.0	10+00	9.2
	6.1		9.1
	6.3		9.0
	6.8		8.9
	7.0		8.6
50	7.7	50	8.6
	9.0		8.3
	9.8		8.0
	9.8		7.7
	9.8		7.2
9+00	9.8	11+00	6.7
	9.8		5.9
	9.9		4.4
	9.7		3.2
	9.7		2.6
50	9.6	50	1.8
	9.5		1.1
	9.4	Shore	

7-17-59

Sound

Sta 92+00

Cont North

48

Sta W 92+00 0+00 = N 14000 North

Dist Sound Elev Dist Sound Elev

Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev
						(11:30)	3.4	0.3		4.0	0.9
0+00	3.6	0.5		3.4	0.3	3.1	3.6	0.5		4.0	
(11:25)	3.4	0.3	2+00	3.5	0.4	4+00	3.8	0.7	6+00	4.0	
(3.1)	3.5	0.4		3.4	0.3		3.8			4.1	1.0
	3.5			3.3	0.2		3.8			4.1	1.0
	3.5			3.2	0.1		3.8			4.0	0.9
+50	3.5			3.2			3.8			4.0	
	3.5		+50	3.2		+50	3.9	0.8	+50	4.0	
	3.3	0.2		3.2			3.9			4.1	1.0
	3.4	0.3		3.1	0.0		3.9			4.2	1.1
	3.4			3.1	0.0		3.9			4.2	1.1
1+00	3.4			3.3	0.2		3.9			4.3	1.2
	3.5	0.4	3+00	3.4	0.3	5+00	3.9		7+00	4.4	1.3
	3.5			3.5	0.4		4.0	0.9		4.4	1.3
	3.4	0.3		3.4	0.3		4.0			4.5	1.4
	3.3	0.2		3.3	0.2		4.0			4.9	1.8
+50	3.3			3.3			4.0			5.0	1.9
	3.3		+50	3.3		+50	4.0		+50	5.1	2.0
	3.3			3.3			4.0			5.4	2.3
	3.3			3.3			4.0			6.0	2.9

Sta W 92+00 Cont North			Sta W 94+00; 0+00 = N 14000 Sound North		
Dist	Sound	Elev	Dist	Sound	Elev
(3.1)	6.8	3.7	8.9	5.8	
	7.5	4.4	8.5	5.4	
8+00	8.9	5.8	10+00	8.3	5.2
	9.5	6.4		8.3	5.2
	9.8	6.7		7.3	4.2
	9.7	6.6		7.2	4.1
	9.7	}		6.0	2.9
+50	9.7		+50	5.2	3.1
(11.35)	9.7	}		4.0	0.9
(3.1)	9.7			3.0	+0.1
	9.5	6.4		2.3	+0.9
	9.5	}		1.5	+1.7
9+00	9.5		11+00	1.0	+2.1
	9.5		(11.38) Shore		
	9.4	6.3	3.2		
	9.4	6.3			
	9.3	6.2			
+50	9.0	5.9	+50		
	9.0	}			
	9.0				

Sta W 94+00; 0+00 = N 14000 Sound North			Sta W 94+00; 0+00 = N 14000 Sound North		
Dist	Sound	Elev	Dist	Sound	Elev
0+00	2.5	+0.1		3.0	0.4
(2.6)	2.5	+0.1	1+00	2.8	0.2
	2.5	+0.1		2.2	+0.4
	2.6	0.0		2.2	+
	2.6	0.0		2.2	+
+50	2.6	0.0		2.2	+
	2.8	0.2	+50	2.2	+
	2.8	}		2.2	+
	2.8			2.2	+
	2.8	}		2.2	+
	2.8			2.2	+
1+00	2.8	}		2.2	+
	2.8			2.2	+
	2.8	}	3+00	2.2	+
	2.8			2.2	+
	2.8	}		2.4	+0.2
	2.8			2.6	0.0
+50	2.8	}		2.6	0.0
	2.8			+50	2.2
	3.2	0.6		2.6	0.0
	3.2	0.6		2.6	0.0

Sta W94100			Cont North			Sta W94100					
Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev
(2.6)	2.8	0.2	(2.6)	3.0	0.4	(2.6)	9.0	6.4	(2.6)	6.0	3.4
	2.8			3.0			9.2	6.6		4.6	2.0
4+00	2.8		6+00	3.0		8+00	9.3	6.7	10+00	3.2	0.6
	2.8			3.0			9.2	6.6		2.8	0.2
	2.9	0.3		3.2	0.6		9.2	6.6		2.0	+0.6
	3.0	0.4		3.2			9.0	6.4	(1.35)	1.0	+1.6
	3.0			3.2			9.0	6.4	(2.6)	Shore	
+50	3.0		+50	3.2		+50	8.8	6.2	+50		
	3.2	0.6		3.8	1.2		8.8	6.2			
	3.0	0.4		3.6	1.0		8.6	6.0			
	3.0			3.8	1.2		8.4	5.8			
	3.0			3.8	1.2		8.2	5.6			
5+00	3.2	0.6	7+00	4.2	1.6	9+00	8.4	5.8			
1:30	3.0	0.4		4.8	2.2		8.0	5.4			
(2.6)	3.0			5.2	2.6		8.0	5.4			
	3.0			6.0	3.4		7.8	5.2			
	3.2	0.6		7.6	5.0		7.6	5.0			
+50	3.2	0.6	+50	8.0	5.4	+50	7.6	5.0			
	3.0	0.4		8.8	6.2	1:35	7.0	4.4			
	3.0	0.4		8.8	6.2	(2.6)	7.0	4.4			

Sta W 96+00; 0+00 = N 14000			sound North Dist			Sta 96+00 Cont North ST					
Dist	Sound	Elev	Dist	sound	Elev	Dist	Sound	Elev			
0+00	2.2 + 0.3		(2.8)	2.8	0.3	(2.6)	2.5	0.1			
(1.43)	2.2 +	}	2+00	2.8	}	4+00	2.5 + 0.1	6+00	3.2	0.6	
(2.5)	2.2 +			2.8			2.6	0.0	3.2	0.6	
	2.2 +			2.8			2.7	0.1	3.4	0.8	
	2.2 +			2.9		0.4	2.5 + 0.1		3.5	0.9	
+50	2.3 + 0.2			3.0	0.5		2.4 + 0.2		3.2	0.6	
	2.3 + 0.2		+50	2.9	0.4	+50	2.5 + 0.1	+50	3.4	0.8	
	2.4 + 0.1			3.0	0.5	(1.48)	2.6	0.0	3.8	1.2	
	2.4 + 0.1			2.8	0.3	(2.6)	2.7	0.1	4.1	1.5	
	2.6	0.1		3.0	0.5		2.8	0.2	5.0	2.4	
1+00	2.4 + 0.1			3.0	0.5		3.0	0.4	6.8	4.2	
	2.4 + 0.1		3+00	2.9	0.4	5+00	3.0	}	7+00	7.8	5.2
	2.4 + 0.1			3.0	0.5		3.0		8.5	5.9	
	2.6	0.1		3.0	}		3.0		9.0	6.4	
	2.6	0.1		3.0			3.0		(1.50)	9.2	6.6
+50	2.8	0.3		3.0			3.0	(2.6)	9.2	6.6	
	2.8	0.3	+50	2.8		0.3	+50	3.0	+50	9.2	6.6
	2.6	0.1		2.7	0.2		3.1	0.5	9.2	6.6	
	2.7	0.2		2.6	0.1		3.2	0.6	9.0	6.4	

Sta W 96+00 cont North			Sta W 98+00; 0+00: N 14000 North		
Dist	Sound	Elev	Dist	Sound	Elev
(2.6)	9.2	6.6		0.3	
	9.2	}		0.2	
8+00	9.2		10+00	0.1	
	9.0	6.4			
	8.9	6.3			
	8.8	6.2			
	8.2	5.6			
+50	8.2	5.6			
	8.0	5.4			
(1.53)	7.5	4.9			
(2.6)	7.3	4.7			
	7.0	4.4			
9+00	6.2	3.6			
	5.2	2.6			
	4.3	1.7			
	2.6	0.0			
	1.8+				
+50	1.2	+1.4			
(2:00)	0.6	+2.0			
(2.6)	0.3	+2.3			

Sta W 98+00; 0+00: N 14000 North			Sound ⁵²		
Dist	Sound	Elev	Dist	Sound	Elev
0+00	2.2	+0.5	(2.7)	3.2	0.5
(2:15)	2.2	+0.5	2+00	3.1	0.4
2.7	2.0	+0.7		3.2	0.5
	2.2	+0.5		3.3	0.6
	2.2	+		3.3	}
+50	2.2	+		3.3	
	2.2	+	+50	3.4	0.7
	2.2	+		3.5	0.8
	2.2	+		3.5	0.8
	2.2	+		3.4	0.7
1+00	2.3	+0.4		3.4	0.7
	2.3	+0.4	3+00	3.0	0.3
	2.4	+0.3		3.0	}
	2.5	+0.2		3.0	
	3.0	0.3		3.0	}
+50	3.0			3.0	
	3.0		+50	2.8	0.1
	3.0		(2:17)	3.0	0.3
	3.1	0.4	2.7	3.0	}

Sta W98+00 Cont North

Dist	Sound	Elev	Dist	Sound	Elev
(2.7)	3.0	0.3			
	3.0				
4+00	3.0		6+00	4.5	1.8
	3.0			5.0	2.3
	3.0		(2.20)	5.5	2.8
	3.0		2.7	5.5	2.8
	2.9	0.2		6.0	3.3
750	2.9	0.2	750	5.8	3.1
(2.18)	3.0	0.3		6.0	3.3
2.7	3.0	0.3		5.5	2.8
	2.9	0.2		5.5	
	2.8	0.1		5.5	
5+00	2.8	0.1	7+00	5.5	
	2.7	0.0		5.2	2.5
	2.6	+0.1		4.8	2.1
	2.8	0.1		4.8	2.1
	2.9	0.2		4.6	1.9
750	2.8	0.1	750	4.8	2.1
	3.1	0.4		4.4	1.7
	3.2	0.5		4.0	1.3

Sta W98+00 Cont North 53

Dist	Sound	Elev	Dist	Sound	Elev
(2.7)	4.0	1.3	(2.7)	2.4	+0.3
	3.6	0.9		2.0	+0.7
8+00	3.4	0.7		1.6	+0.1
	3.0	0.3		1.2	+1.5
	3.0	0.3	9+00	0.4	+2.3
	2.8	0.1	(2.25)	0.2	+2.5
	2.6	+0.1	2.7		
750	2.6	+0.1			

Sta W100+00, 0+00 - N14000 Sound North

Dist	Sound	Elev	Dist	Sound	Elev
0+00	3.0	0.2	1+00	3.2	0.4
(2.35)	3.0	0.2		3.2	
2.8	3.1	0.3		3.2	
	3.2	0.4		3.2	
	3.2			3.2	
750	3.2		750	3.2	
	3.2			3.3	0.5
	3.2			3.3	
	3.2			3.3	
	3.2			3.4	0.8

Sta W 100 +00 Cont North

Dist	Sound	Elev	Dist	Sound	Elev
2700	3.6	0.8	4100	3.1	0.3
(2.8)	3.5	0.7		3.1	0.3
	3.5	0.7		3.2	0.4
	3.6	0.8		3.3	0.5
	3.6	0.8		3.3	
+50	3.8	1.0	+50	3.3	
	3.7	0.9		3.4	0.6
	3.7			3.4	
	3.7			3.4	
	3.7			3.3	0.5
3100	3.8	1.0	5100	3.2	0.4
(2.40)	3.8	1.0		3.2	0.4
(2.8)	3.8	1.0		3.2	
	3.4	0.6		3.2	
	3.4	0.6		3.2	
+50	3.2	0.4	+50	4.0	1.2
	3.2	0.4	(2.45)	5.1	2.3
	3.2	0.4	(2.8)	6.5	3.7
	3.1	0.3		7.3	4.5
	3.1	0.3		7.8	4.2

Sta W 100 +00 Cont North 54

Dist	Sound	Elev	Dist	Sound	Elev
6+00	6.8	4.0	7+50	3.1	0.3
(2.8)	6.7	3.9		2.2	+0.6
	6.6	3.8		1.6	+1.2
	6.6	3.8		1.3	+1.5
	6.3	3.5		1.1	+1.7
+50	5.9	3.1	8+00	1.0	+1.8
	7.5	4.7		1.0	+1.8
	7.9	5.1	(2.9)	1.0	+1.8
	7.9	5.1	(2.50)	0.8	+2.0
	7.6	4.8		0.6	+2.2
7+00	6.8	4.0	+50	0.5	+2.3
	6.4	3.6		0.3	+2.5
	5.8	3.0		0.3	+2.5
	5.1	2.3			
	4.1	1.3			
STA 102+00; 0+00 = N14000 Sound North					
0+00	3.5	0.6		3.7	0.8
(2.55)	3.5		+50	3.7	0.8
2.9	3.5			3.8	0.9
	3.6	0.7		3.8	0.9

STAW 102+00; 0+00=N/4000

Sound

North

Sta 102+00

Dist	Sound	ELV	Dist	Sound	ELV	Dist	Sound	ELV	Dist	Sound	ELV
(2.9)	3.7	0.8		3.6	0.7	(3.0) ⁺⁵⁰	2.8	+0.2	6+00	9.1	6.1
	3.7	0.8		3.8	0.9		2.8	+0.2	(3.0)	8.4	5.4
1+0.0	3.7	0.8		3.7	0.8		3.1	0.1		8.0	5.0
	3.7	0.8	3+00	3.7			3.7	0.7		7.6	4.6
	3.8	0.9	3+00	3.7		3+00	4.2	1.2	+50	7.3	4.3
	3.8			3.8	0.9	5+00	5.1	2.1	+50	7.2	4.2
	3.8		<u>3:00</u>	3.8			6.2	3.2		7.2	
+50	3.7	0.8		3.8			7.1	4.1		7.2	
	3.6	0.7	+50	3.8			8.0	5.0		7.2	
	3.5	0.6	+50	3.9	1.0	+50	7.6	5.6	7+00	7.2	
	3.5		(3.0)	4.6	1.0	+50	9.2	6.2	7+00	6.9	3.9
	3.5			3.8	0.8		9.3	6.3		6.7	3.7
2+00	3.5			3.5	0.5		10.2	7.0		6.3	3.3
	3.7	0.8	4+00	3.2	0.7		9.5	6.5		6.1	3.1
	3.9	1.0	4+00	3.1	0.1	6+00	9.4	6.4	+50	5.9	2.9
	3.5	0.6		3.0	0.0					5.1	2.1
	3.5	0.6		2.9	+0.1					3.2	0.2
+50	3.6	0.7		2.8	+0.2				(3.0)	2.1	+0.9
			+50	2.5	+0.2				(9:05)	1.2	+1.8

W
Sta 104+00

7-22-59

0700 = 14000 ft

DIST	Sound	EIV	DIST	Sound	EIV
10:10 0700	4.3	0.3		4.5	0.5
(4.0)	4.4	0.4	2+00	4.5	
	4.5	0.5		4.5	
	4.4	0.4		4.5	
	4.4			4.5	
+50	4.4			4.5	
	4.4		250	4.5	
	4.4			4.6	0.6
	4.5	0.5		4.7	0.7
	4.5			4.7	0.7
1+00	4.5			4.5	0.5
	4.5		3+00	4.6	0.6
	4.5			4.6	0.6
	4.5			4.9	0.9
	4.5			5.1	1.1
+50	4.5			5.0	1.0
	4.5		50	5.0	
	4.5			5.0	
	4.5			4.9	0.9

STA^W 104+00

Count North 56

DIST	Sound	elev	DIST	Sound	elev
(4.0)	4.9	0.9	4.0	11.1	7.1
	5.1	1.1		11.0	7.0
4+00	5.1		6+00	10.9	6.9
	5.1			10.7	6.7
	5.1			10.5	6.5
	5.2	1.2		10.3	6.3
	5.2			10.2	6.2
50	5.2		50	9.8	5.8
	5.2			9.6	5.6
	5.3	1.3		9.2	5.2
	6.0	2.0		9.2	5.2
	7.2	3.2		9.0	5.0
5+00	8.6	4.6	7+00	9.1	5.1
	9.3	5.3		9.1	5.1
	9.9	5.9		8.3	4.3
	10.1	6.1	(4.2)	7.7	3.5
	10.8	6.8	10:15	6.3	2.1
50	10.9	6.9	50	4.4	0.2
	11.1	7.1		3.6	+0.6
	11.1	7.1		2.6	+1.6

STA W 104+00 Cant North

STA W 104+00 Cant North 57

DIST	Sound elev	DIST	Sound elev
(4.2)	2.2 + 2.0		1.0 + 3.2
	1.9 + 2.3		1.0 +
8+00	2.1 + 2.1	10+00	1.0 +
	1.9 + 2.3		1.1 + 3.1
	2.0 + 2.2		1.2 + 3.0
	1.5 + 2.7		1.0 + 3.2
	2.0 + 2.2		1.0 +
50	1.4 + 2.8	50	1.0 +
	1.6 + 2.6		1.0 +
	1.6 + 2.6		1.0 +
	1.4 + 2.8		1.0 +
	1.3 + 2.9		1.0 +
9+00	1.5 + 2.7	11+00	1.0 +
	1.3 + 2.9		1.0 +
	1.2 + 3.0		1.0 +
	1.2 + 3.0		0.9 + 3.3
	1.1 + 3.1		0.9 +
50	1.1 +	50	0.9 +
	1.1 +	(4.3)	0.8 + 3.5
	1.1 +	10+20	0.8 + 3.5

DIST	Sound ELEV
(4.3)	0.7 3.6
	0.7
12+00	0.7
	0.6 3.7
	0.6
	0.6
50	

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D-STAW 106400, 0400 = N14000. Sound NORTH

STAW 106400 CONT NORTH 58
DINT Sound ELEV DINT Sound elev

	DIST	Sound	ELEV	DIST	Sound elev		DIST	Sound	ELEV	DINT	Sound elev	
	(4.5)			(4.5)		(4.5)	5.7	1.2	(4.5)	12.4	7.8	
	10:35 0400	4.5	0.0	(4.5)	4.7	0.2	5.8	1.3		12.8	8.2	
8	(4.5)	4.4	+0.1	2400	4.7	0.2	4400	6.1	1.6	6400	12.6	8.0
		4.3	+0.2		4.6	0.1		7.2	2.7		12.0	7.4
		4.4	+0.1		4.7	0.2		9.1	4.6		11.9	7.3
		4.4	+0.1		4.7		(4.6)	10.2	5.6		11.5	6.9
50		4.5	0.0		4.7		10:40	10.5	5.9		10.5	5.9
50		4.5		50	4.7		50	10.8	6.2	50	7.5	2.9
		4.5			4.8	0.3		10.8	6.2		6.9	2.3
		4.5			4.9	0.4		11.0	6.4		5.9	1.3
		4.5			4.9			11.1	6.5		4.9	0.3
1400		4.5			4.9			11.2	6.6		4.1	+0.5
9		4.5		3400	4.7	0.2	5400	11.3	6.7	7400	3.7	+0.9
		4.5			5.0	0.5		11.3	6.7		3.7	+0.9
		4.5			5.0			11.9	7.3		3.4	+1.2
		4.5			5.0			11.9	7.3		3.3	+1.3
50		4.5			5.0			12.0	7.4		3.2	+1.4
		4.5		50	5.0		50	12.1	7.5	50	3.1	+1.5
		4.6	0.1		5.0			12.3	7.7		3.1	+1.5
		4.7	0.2		5.3	0.8		12.3	7.7		3.1	+1.5

STATION 106700 CONT NORTH

STATION 106700 CONT NORTH 59

DIST	Sound elev	DNT	Sound elev	DIST	Sound
4.6	3.0 +1.6	(4.6)	2.1 +2.5	(4.7)	1.4 +3.3
	3.0 +1.6		2.1 +2.5	10:45	1.1 +3.6
8+00	2.9 +1.7	10+00	2.3 +2.3	12+00	1.1 +3.6
	2.7 +1.9		2.0 +2.6		1.0 +3.7
	3.0 +1.6		2.0		1.0 +3.7
	2.7 +1.9		2.0		0.9 +3.8
	2.7 +1.9		2.0		0.9 +3.8
50	2.4 +2.2	50	1.9 +2.7	50	0.9 +3.8
	2.4 +2.2		1.9 +2.7		1.2 +3.5
	2.3 +2.3		1.8 +2.8		1.1 +3.6
	2.3		1.8		1.0 +3.7
	2.3		1.8		1.3 +3.4
9+00	2.2 +2.4	11+00	1.7 +2.9	13+00	1.0 +3.7
	2.2		1.7 +2.9		1.0 +3.7
	2.2		1.6 +3.0		
	2.2		1.6 +3.0		
	2.2		1.6 +3.0		
50	2.2	50	1.5 +3.1		
	2.3 +2.3		1.4 +3.2		
	2.1 +2.5		1.3 +3.3		

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Sound

STAW 108400; 6400 = N 14000 NORTH

DIST	Sound	ELEV	DIST	Sound	elev
1100					
0700	4.2	+0.7	(4.9)	4.8	+0.1
(4.9)	4.2	+0.7	2700	4.8	+0.1
	4.4	+0.5		5.0	0.1
	4.4	+		4.8	+0.1
	4.4	+		4.9	0.0
50	4.5	-0.4		4.9	
	4.6	+0.3	50	4.9	
	4.6	+0.3		5.0	0.1
	4.6	+0.3		5.0	
	4.6	+0.3		5.0	
1700	4.8	+0.1		5.0	
	4.8	+0.1	3700	5.0	
	4.8	+0.1		5.1	0.2
	4.8			5.2	0.3
	4.8			5.5	0.6
50	4.8			6.0	1.1
	4.8		50	7.0	2.1
	4.6	+0.3		8.5	3.6
	4.8	+0.1		10.0	5.1

STAW 108400 CONT NORTH 60

DIST	Sound	ELEV	DIST	Sound	elev
	10.5	5.5	(5.0)	72.5	7.5
(5.0)	10.8	5.8		11.0	6.0
1105	11.0	6.0	6400	10.2	5.2
4700	11.2	6.2		8.6	3.6
	11.5	6.5		7.6	2.6
	11.5	6.5		7.2	2.2
	11.5			6.7	1.7
50	11.5		50	6.6	1.6
	11.8	6.8		6.2	1.2
	12.0	7.0		5.8	0.8
	12.1	7.1		5.2	0.2
	12.2	7.2		5.1	0.1
5700	12.2		7400	5.0	0.0
	12.5	7.5		5.0	
	12.8	7.8		5.0	
	13.0	8.0		4.8	+0.2
	13.1	8.1		5.0	0.0
50	13.1		50	5.0	0.0
	13.1			4.8	+0.2
	12.8	7.8		4.5	+0.5

STATION 108+00 CONT NORTH

STATION 108+00 CONT NORTH 01

DIST	Sound elev	DIST	Sound elev
(5.0)	4.5 + 0.5	(5.0)	2.5 + 2.5
11:10	4.5 + 0.5		2.5 + 2.5
8+00	4.2 + 0.8	10+00	2.6 + 2.4
	4.2 + 0.8		2.6 + 2.4
	4.0 + 1.0		2.5 + 2.5
	4.0 + 1.0		2.5 + 2.5
	3.9 + 1.1		2.5 + 2.5
50	3.8 + 1.2	50	2.6 + 2.4
	3.8 +		2.6 +
	3.8 +		2.6 +
	3.8 +		2.4 + 2.6
	3.2 + 1.8		2.2 + 2.8
9+00	3.0 + 2.0	11+00	2.2 + 2.8
	2.8 + 2.2		2.0 + 3.0
	3.0 + 2.0		2.0 +
	3.0 +		2.0 +
	3.0 +		2.0 +
50	3.0 +	50	2.0 +
	2.8 + 2.2		1.8 + 3.2
	2.8 + 2.2		1.8 + 3.2

DIST	Sound elev	DIST	Sound elev
(5.0)	1.8 + 3.2	(5.0)	1.4 + 3.6
11:10	1.8 +		1.4 + 3.6
12+00	1.8 +	14+00	1.8 + 3.2
	1.8 +		1.6 + 3.4
	1.8 +		1.4 + 3.6
	2.0 + 3.0	(5.1)	1.4 + 3.7
	2.0 + 3.0	11:20	2.0 + 3.1
50	1.8 + 3.2	50	1.8 + 3.3
	1.8 +		1.4 + 3.7
	1.8 +		1.3 + 3.8
	1.8 +		1.2 + 3.9
	2.0 + 3.0		1.4 + 3.7
13+00	1.8 + 3.2	15+00	1.2 + 3.9
	2.0 + 3.0		1.2 + 3.9
	1.6 + 3.4		
	1.5 + 3.5		
	1.4 + 3.6		
50	1.4 +		
	1.4 +		
	1.4 +		

Bay 7-22-59
 STA W110+00)0+00=N(4000 - Sound North

STA W110+00 CONT NORTH 62
 DIST Sound elev DIST Sound elev

DIST	SOUND	ELEV	DIST	SOUND	elev	DIST	SOUND	elev	DIST	SOUND	elev
			(4.9)	11.4	6.5	(4.9)	7.4	2.5			
1'00 0+00	4.2	+0.8	(5.0)	4.5	+0.5		11.4	6.5		7.3	2.4
(5.0)	4.5	+0.5	2+00	4.5	+	4+00	11.4	6.5	6+00	7.2	2.3
	4.5	+0.5		4.5	+		11.7	6.8		7.1	2.2
	4.2	+0.8		4.5	+		11.9	7.0		6.9	2.0
	4.3	+0.7		4.4	+0.6		12.1	7.2		6.4	1.5
50	4.4	+0.6		4.1	+0.9		12.1	7.2		6.4	1.5
	4.4	+	50	4.1	+0.9	50	12.3	7.4	50	6.0	1.1
	4.4	+		4.5	+0.5		12.8	7.9		5.8	0.9
	4.5	+0.5		4.7	+0.3		12.9	8.0	50	5.7	0.8
	4.5	+	(4.9)	5.0	+0.1		13.1	8.2		5.8	0.9
1+00	4.4	+0.6	1'05	5.8	0.9		13.3	8.4	(4.9)	5.5	0.6
	4.5	+0.5	3+00	7.2	2.3	5+00	13.6	8.7	11'10 7+00	5.5	0.6
	4.6	+0.4		9.2	4.3		13.5	8.6		5.6	0.7
	4.6	+0.4		10.0	5.1		13.2	8.3		5.6	0.7
	4.5	6.5		10.3	5.4		12.0	7.1		5.6	0.7
50	4.5	+0.5		10.8	5.9		10.9	6.0		5.5	0.6
	4.7	+0.3	50	10.8	5.9	50	9.5	4.6	50	5.4	0.5
	4.6	+0.4		11.2	6.3		8.0	3.1		5.4	0.5
	4.6	+0.4		11.2	6.3		7.4	2.5		5.4	0.5

STAW 110+00 CONT NORTH

DIST	Sound	FLEV	DNT	Sound elev
(4.9)	5.4	0.5	(4.9)	3.0 + 1.9
	5.2	0.3		2.9 + 2.0
8+00	5.2		10+00	2.9 + 2.0
	5.2			2.8 + 2.1
	5.2			2.7 + 2.2
	5.0	0.1		2.9 + 2.0
	5.0			2.6 + 2.3
50	5.0		50	2.6 +
	4.8 + 0.1			2.6 +
	4.7 + 0.2			2.5 + 2.4
	4.5 + 0.4			2.5 + 2.4
	4.4 + 0.5			2.4 + 2.5
9+00	4.1 + 0.8		11+00	2.8 + 2.1
	3.9 + 1.0			2.7 + 2.2
	3.7 + 1.2			2.4 + 2.5
	3.7 + 1.2			2.3 + 2.6
	3.4 + 1.5			2.2 + 2.7
50	3.5 + 1.4		50	2.2 + 2.7
	3.4 + 1.5			2.0 + 2.9
	3.0 + 1.9			2.1 + 2.8

STAW 110+00 CONT NORTH 63

DNT	Sound elev	DIST	Sound elev
	2.1 + 2.7	(4.8)	2.0 + 2.8
(4.8)	2.1 + 2.7		2.1 + 2.7
11+5	2.0 + 2.8	12+00	2.1 + 2.7
	2.2 + 2.6		2.2 + 2.6
	2.1 + 2.7		2.2 + 2.6
	2.2 + 2.6		2.1 + 2.7
	2.2 + 2.6		2.1 + 2.7
50	2.0 + 2.8	50	2.0 + 2.8
	2.0 +		2.7 + 2.1
	2.0 +		2.2 + 2.6
	2.0 +		2.2 + 2.6
	2.1 + 2.7		2.6 + 2.2
13+00	2.2 + 2.6	15+00	2.3 + 2.5
	2.0 + 2.8		2.4 + 2.4
	2.0 +		2.2 + 2.6
	2.0 +		2.2 + 2.6
	2.2 + 2.6		2.1 + 2.7
50	2.0 + 2.8	50	2.2 + 2.6
	2.3 + 2.5		2.1 + 2.7
	2.2 + 2.6		2.0 + 2.8

STA 110+00 east NORTH-

DIST Sound elev

(4.8)	1.9 + 2.9
	1.9 + 2.9
16+00	1.9 + 2.9
	1.8 + 3.0
	1.9 + 2.9
	1.8 + 3.0
	1.8 + 3.0
50	1.8 + 3.3

7-22-59 water Rough 64

STA 112+00; 0+00 = N/4000-Sound NORTH

DIST Sound elev DIST Sound elev

1.25	3.8 + 1.0	(4.8)	4.0 + 0.8
0+00			
(4.8)	4.0 + 1.8	2+00	4.2 + 0.6
	4.0 +		4.2 + 0.6
	4.0 +		4.4 + 0.4
	3.8 + 1.0		2.0 0.2
50	3.8 +		5.8 - 1.1
	3.8 +	50	7.6 - 2.9
	4.0 + 0.8		9.0 - 4.2
	4.0 +		10.0 5.2
	4.0 +	(4.7)	10.2 5.5
1400	4.0 +	1130	10.2 5.5
	4.0 +	3+00	10.5 5.8
	4.0 +		10.5 5.8
	4.0 +		11.0 6.3
	3.8 + 1.0		11.1 6.4
50	3.8 + 1.0		11.1 6.4
	4.0 + 0.8	50	11.2 6.5
	4.0 + 0.8		11.4 6.7
	4.2 + 0.6		11.4 6.7

STATION 112000 CONT NORTH					
DIST	Sound	elev	DIST	Sound	elev
(4.7)	11.4	6.7	(4.7)	9.2	4.5
	11.6	6.9		9.0	4.3
4+00	12.0	7.3	6+00	9.0	4.3
	12.0	7.3		8.8	4.1
	12.0			8.8	4.1
	12.0			9.0	4.3
	12.0			9.0	
50	12.2	7.5	50	9.0	
	12.2			8.8	4.1
	12.2			9.0	4.3
	12.2			8.9	4.2
	12.2			9.0	4.3
5400	12.2		7400	9.0	
	12.0	7.3		9.0	
	12.0	7.3		9.0	
	11.8	7.1		9.0	
	11.5	6.8		9.0	
50	11.0	6.3	50	9.2	4.5
	10.0	5.3		9.2	4.5
	9.5	4.8		9.0	4.3

STATION 112000 CONT NORTH 65					
DIST	Sound	elev	DIST	Sound	elev
(4.7)	9.2	4.5	(4.7)	3.8	+ 0.9
1135	9.2			3.8	+
8400	9.2		10400	3.8	+
	9.2			3.2	+ 1.5
	9.1	4.4		3.2	+
	9.0	4.3		3.2	+
	9.0	4.3		3.2	+
50	9.1	4.4	50	3.0	+ 1.7
	9.2	4.5		3.0	+
	9.1	4.4		3.0	+
	9.0	4.3		3.0	+
	8.8	4.1		3.0	+
9400	8.5	3.8	11400	2.8	+ 1.9
	8.3	3.5		2.6	+ 2.1
	8.0	3.3		2.6	+ 2.1
	7.2	2.5		2.6	+ 2.1
	6.2	1.5		3.0	+ 1.7
50	5.1	0.4	50	3.0	+
	4.3	+ 0.4		3.0	+
	3.8	+ 0.9		3.0	+

STA W 112 + 00 CONT NORTH

DIST Sound elev DIST Sound elev

(4.6)	3.0 + 1.6	(4.6)	2.6 + 2.0
1140	3.0 +		2.4 + 2.2
12+00	3.0 +	14+00	3.0 + 1.6
	3.0 +		2.6 + 2.0
	3.0 +		2.4 + 2.2
	3.0 +		2.4 + 2.2
	3.1 + 1.5		2.3 + 2.3
50	3.0 + 1.6	50	2.2 + 2.4
	2.8 + 1.8		2.2 + 2.4
	2.8 + 1.8		2.3 + 2.3
	2.6 + 2.0	(4.6)	2.1 + 2.5
	2.8 + 1.8	1145	2.2 + 2.4
13+00	2.8 + 1.8	15+00	2.4 + 2.2
	2.8 + 1.8		2.5 + 2.1
	2.8 + 1.8		2.4 + 2.2
	2.6 + 2.0		2.4 + 2.2
	3.0 + 1.6		2.2 + 2.4
50	3.0 + 1.6	50	2.2 + 2.4
	2.8 + 1.8		
	2.6 + 2.0		

STA W 114 + 00; 0 + 00 - N 14000

Sound elev NORTH

DIST	Sound elev	DIST	Sound elev
1150 0+00	3.6 + 0.9	1155	6.0 1.5
(4.5)	3.6 + 0.9	2+00	8.4 3.9
	3.7 + 0.8	(4.5)	9.8 5.3
	3.7 + 0.8		10.8 6.3
	3.8 + 0.7		11.1 6.6
50	3.8 + 0.7		11.5 7.0
	3.8 + 0.7	50	11.5 7.0
	3.8 + 0.7		11.7 7.2
	3.8 + 0.7		12.0 7.5
	3.5 + 1.0		12.0 7.5
1+00	3.7 + 0.8		12.1 7.6
	3.7 +	3+00	12.2 7.7
	3.7 +		12.2
	4.0 + 0.5		12.2
	3.9 + 0.6		12.4 7.9
50	3.7 + 0.8		12.4 7.9
	3.8 + 0.7	50	12.3 7.8
	4.2 + 0.3		12.5 8.0
	4.9 0.4		12.7 8.2

STA W 114400 cont NORTH				
DIST	Sound elev	DIST	Sound elev	
(4.4)	12.7 8.2	(4.4)	8.8 4.4	
	12.9 8.4		8.8 4.4	
4400	12.9 8.4	6400	9.0 4.5	
	12.7 8.2		8.8 4.4	
	11.2 6.7		8.8 4.4	
	9.7 5.2		8.8 4.4	
	8.5 4.0		8.8 4.4	
50	8.2 3.7	50	8.7 4.3	
	7.9 3.4		8.4 4.0	
	7.9		8.7 4.3	
(4.4)	7.9	(4.3)	8.4 4.1	
2100	7.9	2105	8.4	
5400	8.3 3.8	7400	8.4	
	8.8 4.3		8.3 4.0	
	8.7 4.4		8.3	
	8.7 4.4		8.3	
	8.3 3.9		8.2 3.9	
50	8.3 3.9	50	8.2 3.9	
	8.5 4.1		8.2 3.9	
	8.7 4.3		8.5 4.1	

STA W 114400 cont NORTH 67				
DIST	Sound elev	DIST	Sound elev	
(4.3)	8.6 4.3			3.9 + 0.4
	8.2 3.9	(4.3)		3.9 + 0.4
8400	8.0 3.7	2110 10400		3.7 + 0.6
	7.9 3.6			3.9 + 0.4
	7.8 3.5			3.9 + 0.4
	7.7 3.4			3.9 + 0.4
	7.5 3.2			3.7 + 0.6
50	7.5 3.2	50		3.8 + 0.5
	7.3 3.0			3.8 + 0.5
	7.2 2.9			3.7 + 0.6
	7.0 2.7			3.7 + 0.6
	6.8 2.5			3.4 + 0.9
9400	6.4 2.1	11400		3.4 + 0.9
	5.4 1.1			3.5 + 0.8
	4.8 0.5			3.5 + 0.8
	4.7 0.4			3.3 + 1.0
	4.4 0.1			3.3 + 1.0
50	4.0 + 0.3	50		3.2 + 1.1
	4.0 + 0.3			3.0 + 1.3
	3.9 + 0.4			2.9 + 1.4

STAW 114 + 00 CONT NORTH

DIST	Sound elev	DIST	Sound elev
(4.3)	2.9 + 1.4	(4.2)	2.2 + 2.0
	2.9 + 1.4		2.1 + 2.1
12 + 00	2.9 + 1.4	2115	2.1 +
	2.9 + 1.4	14 + 00	2.1 +
	2.9 + 1.4		2.1 +
	2.9 + 1.4		2.1 +
	3.0 + 1.3		2.1 +
	2.9 + 1.4		2.1 +
50	2.7 + 1.6	50	2.1 +
	2.7 + 1.6		
	2.8 + 1.5		
	2.8 + 1.5		
	2.8 + 1.5		
13 + 00	2.8 + 1.5		
	2.7 + 1.6		
	2.6 + 1.7		
	2.6 + 1.7		
	2.5 + 1.8		
50	2.5 + 1.8		
	2.4 + 1.9		
	2.3 + 2.0		

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Sound 6⁸

STAW 116 + 00; 0400 = N 1400 NORTH

DIST	Sound elev	DIST	Sound elev
2120	4.0 + 0.1	(4.1)	12.0 7.9
0400	3.6 + 0.5	2 + 00	12.0 7.9
(4.1)	4.0 + 0.1		12.2 8.1
	3.8 + 0.3		12.2 8.1
	4.0 + 0.1		12.3 8.2
50	4.0 + 0.1		12.4 8.3
	4.0 + 0.1	50	12.4 8.3
	3.8 + 0.3		12.3 8.2
	3.8 + 0.3		12.3
	3.8 + 0.3		12.3
1400	3.8 + 0.3		12.3
	4.0 + 0.1	3 + 00	12.6 8.5
	4.5 0.4		12.6
(4.1)	5.8 1.7		12.6
2125	8.0 3.9		12.8 8.7
50	10.2 6.1		12.8 8.7
	12.0 7.9	50	12.5 8.4
	12.2 8.1		12.0 7.9
	12.0 7.9		10.0 7.9

STATION 116+00 CONT NORTH

DIST	Sound elev	DIST	Sound elev
(4.1)	9.0 4.9	(4.0)	5.7 1.7
	9.0 4.9	2130	5.7
4+00	8.0 3.9	6+00	5.7
	7.5 3.4		5.5 1.5
	7.2 3.1		5.5 1.8
	7.0 2.9		5.4 1.4
	7.0 2.9		5.4 1.4
50	6.8 2.7	50	5.0 1.0
	6.8		5.0
	6.8		5.0
	6.6 2.5		5.0
	6.5 2.4		7.8 0.8
5+00	6.3 2.2	7+00	4.7 0.7
	6.2 2.1		4.6 0.6
	6.0 1.9		4.4 0.4
	6.0		4.4 0.4
	6.0		4.3 0.3
20	6.0	50	4.3 0.3
	6.0		4.2 0.2
	5.8 1.7		4.0 0.0

STATION 116+00 CONT NORTH

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DIST	Sound elev	DIST	Sound elev
(4.0)	4.0 0.0	(4.0)	3.2 +0.8
	3.8 +0.2		3.2 +0.8
8+00	4.0 +0.0	10+00	3.2 +0.8
	4.0 0.0		3.0 +1.0
	3.8 +0.2		2.8 +1.2
	3.8 +0.2		3.0 +1.0
	3.8 +0.2		3.0 +1.0
50	3.6 +0.4	50	3.1 +0.9
	3.7 +0.3		3.0 +1.0
	3.7 +0.3		3.2 +0.8
	3.5 +0.5	(3.9)	3.0 +0.9
	3.4 +0.6	2135	2.8 +1.1
9+00	3.2 +0.8	11+00	2.8 +1.1
	3.0 +1.0	10	2.8 +1.1
	3.0 +	20	2.7 +1.2
	3.0 +	30	2.2 +1.7
	3.0 +	40	2.5 +1.4
	3.0 +	50	2.6 +1.3
	3.0 +	60	2.6 +1.3
	3.0 +	70	2.3 +1.6
	3.0 +	80	2.2 +1.7
50	3.2 +0.8	90	2.2 +1.7
	3.4 +0.6	12+00	2.3 +1.6
	3.4 +0.6	10	2.0 +1.9
	3.4 +0.6	20	2.0 +1.9
	3.4 +0.6	30	2.2 +1.7
	3.4 +0.6	40	2.2 +1.7

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STAW 118400 CONT NORTH

(170)

STAW 118400; 0400 = N14000-Sound No. 5

DWT Sound elev DWT Sound elev.

DIST	Sound	ELEV	DWT	Sound	elev.	DIST	Sound	elev.	DWT	Sound	elev.
						(3.6)	6.4	2.8	(3.6)	5.0	1.4
2:45						2:50	5.8	2.2	6:00	5.0	
0400	4.5	0.8	(3.7) ₂₁₀₀	13.3	9.6	4:00	6.3	2.7	6:00	5.0	
(3.7)	4.2	0.5	2400	13.3	9.6						
	4.4	0.7		13.3	9.6		6.0	2.4		4.9	1.3
	4.7	1.0		13.4	9.7		6.1	2.5		4.9	1.3
50	4.6	0.9	50	13.9	10.2		6.1	2.5		4.7	1.1
50	5.2	1.5	50	14.1	10.4	50	6.0	2.4	50	4.6	1.0
	7.0	2.3	50	14.7	11.0	50	5.9	2.3	50	4.5	0.9
	7.4	3.7		14.5	10.8		5.9	2.3		4.2	0.6
	8.7	5.0		13.8	10.1		5.9	2.3		4.3	0.7
1400	17.9	8.2		13.3	9.5		6.0	2.4		4.4	0.8
1400	13.1	9.4	3100	13.0	9.3	5:00	5.9	2.3	7:00	4.1	0.5
	13.3	9.6	3400	12.4	8.7	5:00	5.9	2.3	7:00	4.1	0.5
	13.2	9.5		12.8	9.1		5.9	2.3		4.0	0.4
	13.6	9.9		9.8	6.1		5.7	2.1		4.0	0.4
50	13.7	10.0		8.1	4.4		5.8	2.2		4.0	0.4
50	13.7	10.0	50	7.1	3.4	50	5.4	1.8	50	4.0	0.4
	13.8	10.1	50	6.9	3.2	50	5.3	1.7	50	3.9	0.3
	13.8	10.1		6.8	3.1		5.4	1.8		3.9	0.3
	13.7	10.0		6.6	2.9		5.1	1.5		3.9	0.3

STAW 118+00 CONT NORTH

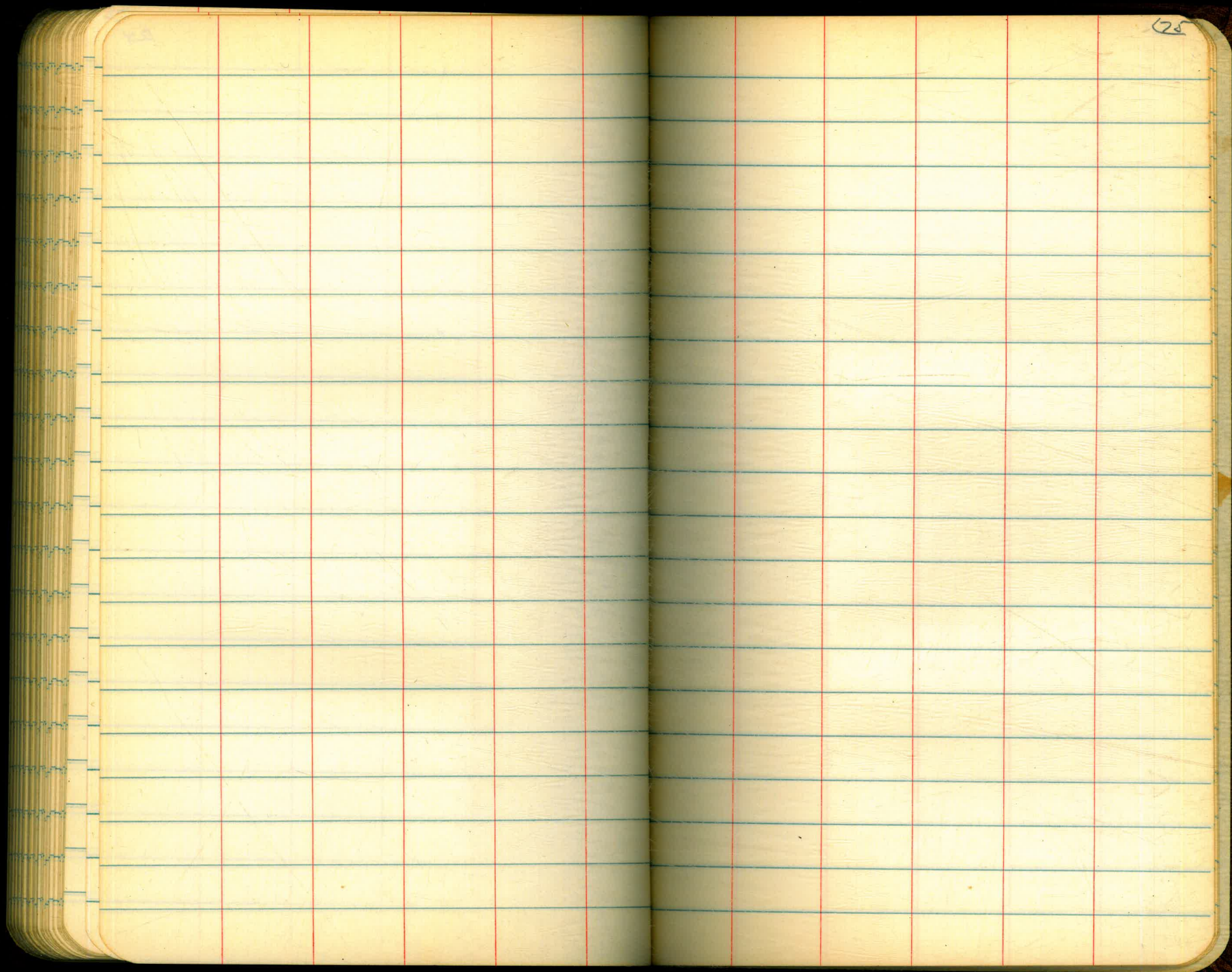
DIST	Sound	elev	DIST	Sound	elev
(3.6)	3.8	0.2		3.2	+0.4
8+00	3.8	0.2	10+00	3.0	+0.6
8+00	3.7	0.1	10+00	3.1	+0.5
	3.6	0.0		3.0	+0.6
	3.6	0.0		3.0	+0.6
	3.5	+0.1	(3.6)	3.0	+0.6
50	3.5	+0.1	⁵⁰ 2:55	3.0	+0.6
50	3.5	+0.1	50	2.9	+0.7
	3.4	+0.2			
	3.4	+0.2			
	3.4	+0.2			
9+00	3.2	+0.4			
9+00	3.4	+0.2			
	3.3	+0.3			
	3.3	+0.3			
	3.2	+0.4			
50	3.1	+0.5			
50	3.1	f			
	3.1	f			
	3.1	f			

7-22-59

Sound

STAW 120+00; 0+00 = N14000 NORTH		Sound			
DIST	Sound	ELEV	DIST	Sound	elev
^{3:00} 0+00	7.5	4.0	(3.5)	13.7	10.2
(3.5)	7.2	3.7	2+00	13.9	10.4
	8.2	4.7		14.0	10.5
	10.2	6.7		14.6	11.1
	12.5	9.0		14.7	11.2
50	13.1	9.6		13.7	10.2
	13.4	9.9	50	12.7	9.2
	13.7	10.2		9.0	5.5
	13.7	10.2		4.1	0.6
	14.0	10.5		3.6	0.1
14+00	14.2	10.7		3.3	+0.2
	14.0	10.5	3+00	3.2	+0.3
	14.2	10.7		3.1	+0.4
	14.0	10.5		3.0	+0.5
	14.5	11.0	(3.5)	3.0	+0.5
50	14.6	11.1	3:05	3.0	+0.5
	14.4	10.9	50	3.0	+0.5
	14.4	10.9			
	14.2	10.7			

The image shows an open notebook with two facing pages. The pages are cream-colored and feature blue horizontal ruling lines. Each page has two vertical red margin lines, one on each side of the central gutter. The notebook has rounded corners and a dark, possibly black or dark brown, cover is visible around the edges. The pages are blank, with no writing or markings other than the page number '72' in the top right corner of the right page.

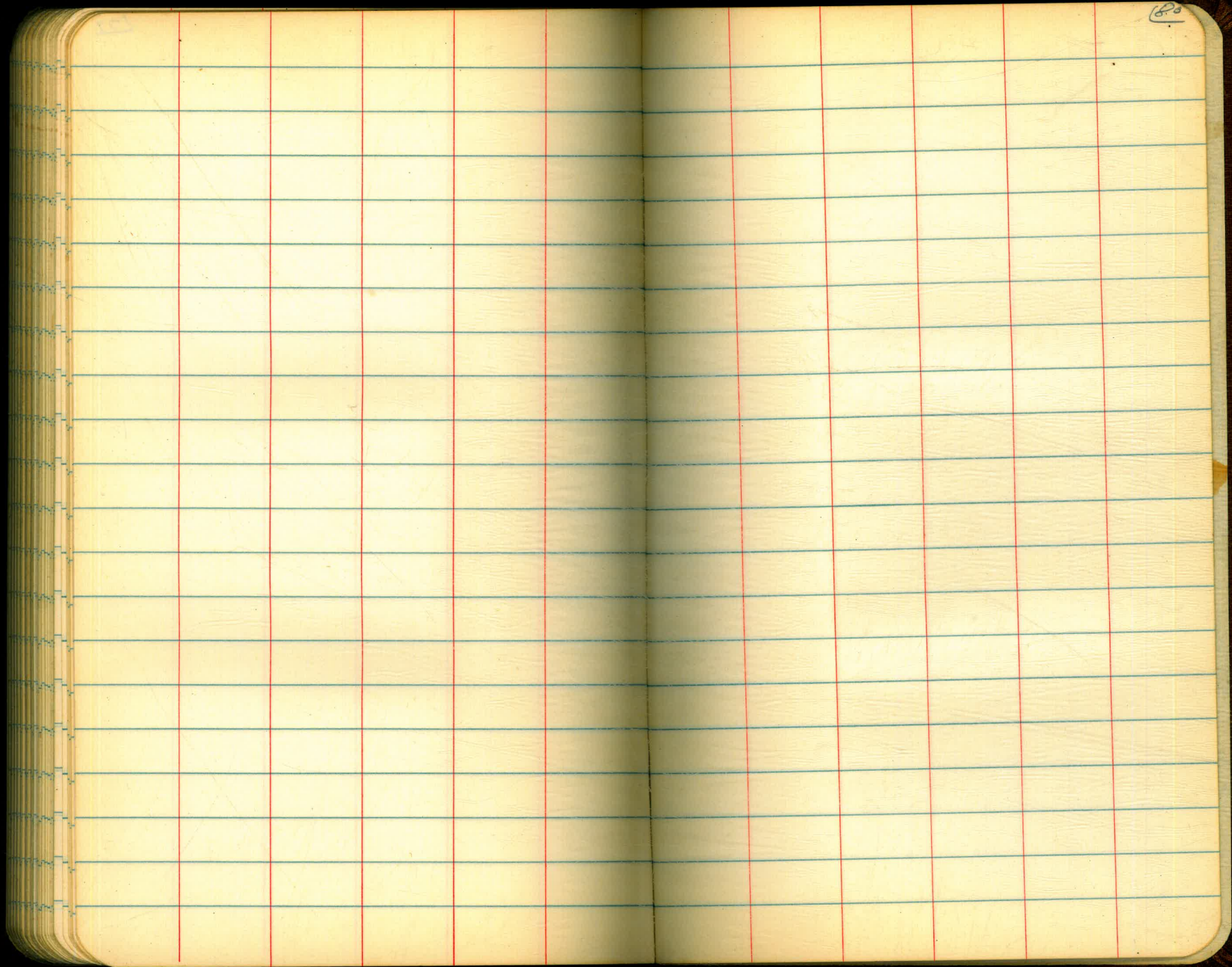


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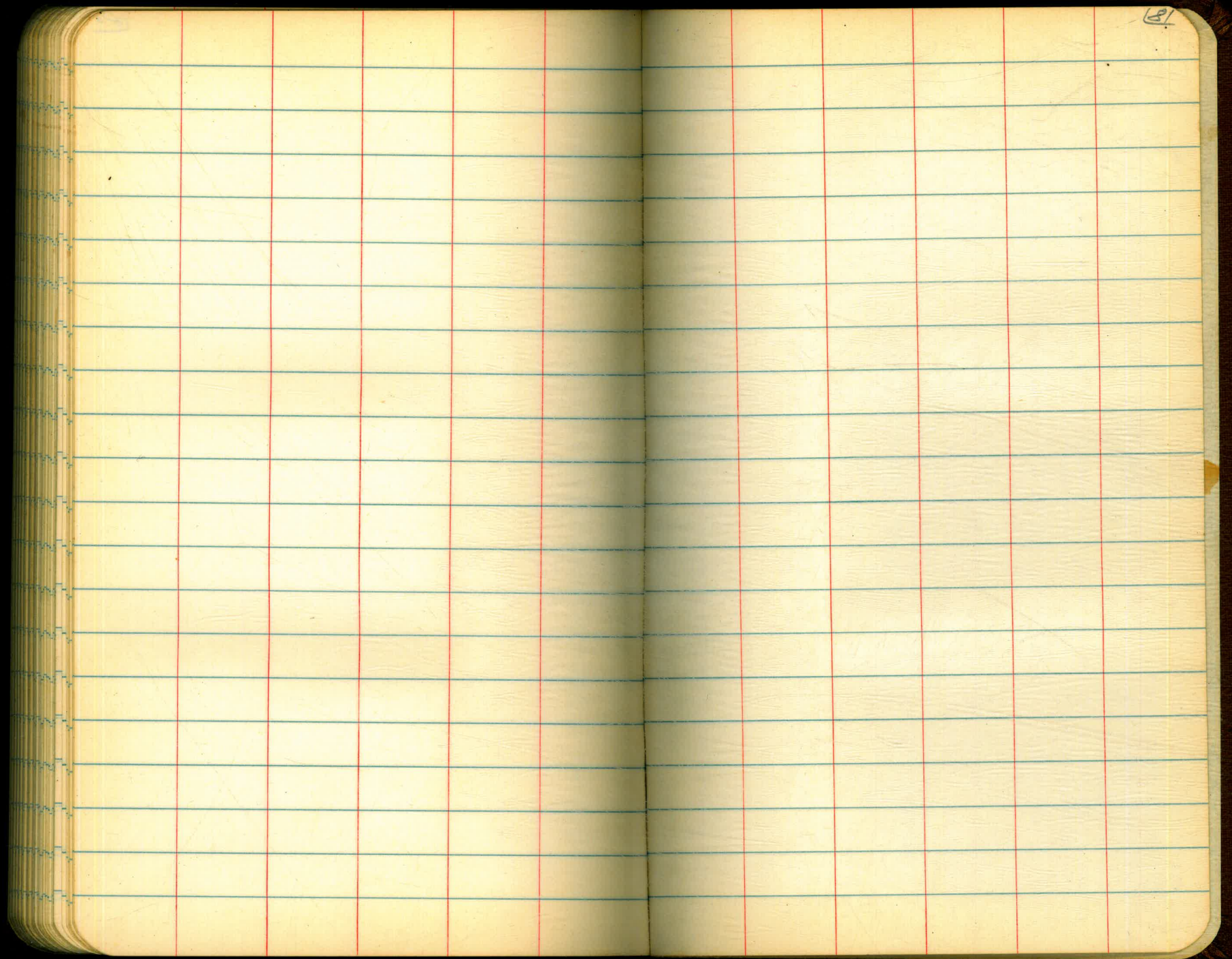
The image shows an open notebook with two facing pages. Both pages are cream-colored and feature light blue horizontal ruling. Each page is divided into two columns by two vertical red margin lines, one on each side of the central gutter. The pages are otherwise blank, with no handwriting or printed text. The notebook's cover is dark, and the pages have rounded corners. The number '26' is handwritten in the top right corner of the right page.

The image shows an open notebook with two facing pages. Both pages are cream-colored and feature blue horizontal ruling lines. Each page has two vertical red margin lines, one on each side of the central gutter. The pages are otherwise blank, with the exception of the number '57' written in the top right corner of the right-hand page. The notebook's dark cover is visible at the edges, and the left side shows the stacked edges of many pages.

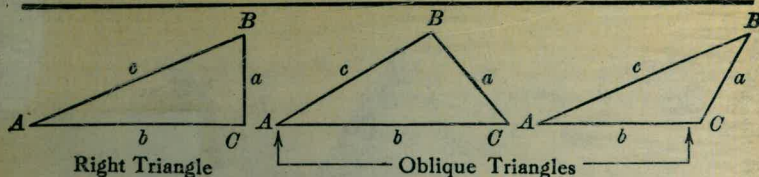
The image shows an open notebook with two facing pages. Both pages are cream-colored and feature blue horizontal ruling lines. Each page has two vertical red margin lines, one on each side of the central gutter. The pages are otherwise blank, with no handwriting or printed text. The number '72' is handwritten in the top right corner of the right page. The notebook's dark cover is visible at the edges.



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TRIGONOMETRIC FORMULÆ



Right Triangle

Oblique Triangles

Solution of Right Triangles

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

Given	Required	Formulas
a, b	A, B, c	$\tan A = \frac{a}{b} = \cot B, c = \sqrt{a^2 + b^2} = a \sqrt{1 + \frac{b^2}{a^2}}$
a, c	A, B, b	$\sin A = \frac{a}{c} = \cos B, b = \sqrt{(c+a)(c-a)} = c \sqrt{1 - \frac{a^2}{c^2}}$
A, a	B, b, c	$B = 90^\circ - A, b = a \cot A, c = \frac{a}{\sin A}$
A, b	B, a, c	$B = 90^\circ - A, a = b \tan A, c = \frac{b}{\cos A}$
A, c	B, a, b	$B = 90^\circ - A, a = c \sin A, b = c \cos A$

Solution of Oblique Triangles

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.