

MB 113



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INDEX

SOUNDINGS + Shore Sections

ELY TIERRA DEL FUEGO

1-

X-SECTION SHORE STATION
 ELY TIERRA DEL FUEGO
 4-17-59

X-100

STA N 77+00; 0+00 = W 14800.0

ELY

STA		ELEV	
BM		10.835	USGS MON CAUSEWAY
0+00		11.0	
E 41	TOP SHORE EXISTING	10.2	
E 60	(W 14740)	1.1	

STA N 78+00; 0+00 = W 14720.

STA		ELEV	
0+00		11.34	STUB Gr Same
E 9	TOP SHORE EXISTING	10.8	
E 33		2.8	
E 100	(W 14620)	1.1	

STA N 79+00; 0+00 = W 14650

STA		ELEV	
0+00		12.06	STUB Gr Same
E 6	TOP SHORE EXISTING	12.0	
E 24		5.6	
E 64		3.9	
E 67		3.1	
E 95		2.4	
E 100	(W 14550)	1.1	

STAN 80+00; 0+00 = W14570.0

STA	ELEV	Stub or same
0+00	11.47	
E4	11.2	
E17	5.7	
E51	2.9	
E55	1.6	
E65 (W14505)	1.1	

STAN 81+00; 0+00 = W14510.

STA	ELEV	Stub or same
0+00	10.63	
E7	10.3	
E20	4.0	
E35	2.7	
E75	1.7	
E78 (W14432)	1.2	

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STAN 82+00; 0+00 = W14500.

STA	ELEV	Stub or same
0+00	11.11	
E12	9.8	
E17	6.8	
E87	3.8	
E100 (W14400)	1.2	

STAN 83+00; 0+00 = W14580.

STA	ELEV	Stub or same
0+00	11.09	
E6	10.5	
E31	5.5	
E89	1.1	
E99	1.8	
E105	3.8	
E165 = Top of Proposed Shore - (W14415)	2.7	
E188 (W14392)	1.9	

STAN 84+00; 0+00 = W14650.

STA	ELEV	Stub or same
0+00	11.85	
E14	7.9	
E54	2.4	
E250 = Top of Proposed Shore - (W14400)	2.4	
E350	2.4	
E375	2.6	
E406	3.0	
E562 (W14088)	1.6	

STAN 85+00; 0+00 = W14650.

STA	ELEV	Stub or same
0+00	10.88	
E18	7.5	
E72	1.8	
E258 = Top of Proposed Shore - (W14392)	3.6	

EL TIERRA DEL FUEGO
STA N 85+00 INT EAST

STA	ELEV
E 380	4.4
E 418	4.0
E 530	3.8
E 560 (W14090)	1.6

STA N 86+00; 0+00 = W 14550.

STA	ELEV	Notes
0+00	9.90	Stub gr some
E 70	3.2	
E 151	3.5	-W14399- Top Proposed Shore
E 250	3.8	
E 350	4.0	
E 450	3.8	
E 460	3.8	
E 565 (W13985)	2.0	

STA N 87+00; 0+00 = W 14480.

STA	ELEV	Notes
0+00	9.25	Stub gr some
E 68	3.1	-W14480- Top Proposed Shore
E 200	3.8	SOUNDINGS P 35
E 300	3.5	
E 400	4.0	
E 470	3.8	
E 600	2.5	
E 625 (W13855)	1.5	

EAST TIERRA DEL FUEGO

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3

STA N 88+00; 0+00 = W 14423.

STA	ELEV
0+00	6.4
E 27	7.0
E 53	9.1
E 60	7.8
E 123	4.6
E 135	3.2
E 300	3.4
E 400	4.5
E 440	5.3
E 500	5.2
E 560	4.9
E 635	4.8
E 655 (W13768)	2.0

STA N 89+00; 0+00 = W 14430.0

STA	ELEV
0+00	6.2
E 30	6.4
E 100	7.8
E 163	8.0
E 200	5.7
E 230	3.9
E 280	3.9
E 300	3.9
E 330	5.5

4-20-59-
 STA N 89+00 CONT EAST
 EAST TIERRA DEL FUEGO

SOUNDING
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STA	ELEV
E360	8.0
E380	6.4
E400	6.3
E500	6.3
E600	5.8
E620	5.8
E640	7.4
E700 (W13730)	3.9

SOUND PAGE 32

STA	ELEV
STAN 90+00; 0+00 = W 14428.0	
0+00 = Top Proposed Shore	5.2
E100	5.1
E200	5.6
E300	6.4
E400	6.2
E500	6.3
E600	6.0
E700	6.0
E800 (W13628)	3.4

Bottom is on
 Straight Grade to
 Tie into Sounding
 Page 32

STA	ELEV
STAN 91+00; 0+00 = W 14422.0	
0+00 = Top proposed shore	4.7
E100	4.4
E200	4.6
E300	6.4

SOUNDING
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4-20-59 - ALLEN
 STA N 91+00 CONT EAST
 EAST TIERRA DEL FUEGO

4

STA	ELEV
E370	7.0
E490	4.6
E570	4.7
E600	4.8
E700	4.3
E800	3.8
E925 (W13497)	3.2

DIST LINE 13500

SOUNDING PAGE 30 -

STA	ELEV
STAN 92+00; 0+00 = W 14410.0	
0+00 = Top Proposed Shore	4.6
E100	4.2
E200	4.0
E300	4.0
E400	4.3
E500	3.6
E600	3.4
E700	3.5
E800	3.5
E900	3.5
E1000	3.3
E1040 (W13370)	3.0

DIST LINE

STA	ELEV
STAN 93+00; 0+00 = W 14385.0	
0+00 = Top proposed shore	4.6
E100	4.0

SOUNDINGS PAGE 29
 STAN 93+00 CONT EAST
 FLY TIERRA DEL FUEGO
 4-22-59

STA	ELEV
E 200	3.6
E 300	3.4
E 400	3.1
E 500	3.2
E 600	3.3
E 700	3.3
E 800	3.5
E 900	3.2
E 985 (W13400) DIST Line	2.8

PAGE 28-
 STAN 94+00; 0+00=W14360.0

0+00 = Top proposed shore	4.0
E 100	3.5
E 200	3.4
E 300	3.4
E 360 (W14000) DIST Line	2.9
STAN 95+00; 0+00=W14330.0	
0+00 = Top proposed shore	3.5
E 100	2.9
E 130 (W14200) DIST Line	2.8

SOUNDINGS FLY TIERRA DEL FUEGO
 ISLAND - WLY of WLY BRIDGE ON
 INGRAHAM ST. 4-22-59 ALLEN

STA	W157400; 0+00=N 9850.0	SOUND NORTH
DIST	SOUND	ELEV
0+00	14.2	9.1
+50	14.3	9.2
	14.3	9.2
	14.4	9.3
9:15	0.0	+5.2
+50	0.3	+4.9
	0.9	+4.3
	1.1	+4.1
	1.6	+3.6
	2.1	+3.1
1+00	2.5	+2.7
	2.3	+2.9
	2.6	+2.6
	2.8	+2.4
	2.8	+2.4
+50	2.8	+2.4
	2.8	+2.4
	2.9	+2.3
9:20	4.0	+1.2
2+00	6.1	1.0
	10.3	5.2
	13.5	8.4
	13.0	8.5
	14.0	8.9

SOUNDINGS ELY TIERRA DEL
Fuero 4-22-59

SOUNDINGS ELY T.D.F.
4-22-59

STATION 50+00; 0+00 = N 9890.0

SOUND

North

STATION 149+00; 0+00 = N 9920.0

SOUND
North

DIST	SOUND	ELEV	DIST	SOUND	ELEV	DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00	0.6	+4.5		13.6	8.6	0+00	3.5	+1.4		13.2	8.3
9:25	1.6	+3.5	+50	13.7	8.7	9:40	3.4	+1.5	+50	13.7	8.8
(5.1)	2.1	+3.0		13.5		(4.9)	3.0	+1.9		14.0	9.1
	2.8	+2.3		13.5			3.0	+1.9		14.2	9.3
	3.1	+2.0	(5.0)	13.5			3.0	+1.9	(4.8)	14.4	9.5
+50	3.2	+2.9	9:32	13.5		+50	3.0	+1.9	9:45	14.6	9.7
	3.2	+2.9	3+00	13.6			3.0	+1.9	3+00	14.5	9.6
	3.2	+2.9					3.0	+1.9			
	3.2	+2.9					3.2	+1.7			
	3.3	+2.8					3.9	+1.0			
1+00	3.4	+2.7				1+00	4.1	+0.8			
	4.0	+1.1					4.1	+0.8			
	4.5	+0.6					4.2	+0.7			
(5.0)	4.4	+0.6					4.2	+0.7			
9:30	4.5	+0.5					4.6	+0.3			
+50	4.6	+0.4					4.7	+0.2			
	4.9	+0.1				+50	4.2	+0.7			
	4.5	+0.5					4.0	+0.9			
	4.6	+0.4					4.2	+0.7			
	5.2	0.2					4.6	+0.3			
2+00	8.0	3.0					5.1	0.2			
	11.8	6.8				2+00	6.0	1.1			
	13.1	8.1					8.0	3.1			
	13.8	8.8					10.0	5.1			
							12.0	7.1			

SOUNDINGS T.D.F. 4-22-59 Sound North

STA W 148+00; 0+00=N 9960.0

DIST	SOUND	ELEV	DIST	SOUND	FLEV
0+00	4.0	+0.8		12.0	7.2
9.50 (4.8)	4.0	+0.8	+50	13.0	8.2
	3.9	+0.9		13.9	9.1
	4.0	+0.8		14.1	9.3
	4.0	+0.8	(4.7)	14.1	9.3
+50	4.0	+0.8	9.55	14.3	9.5
	3.8	+1.0	3+00	14.2	9.4
	4.0	+0.8			
	3.8	+1.0			
	3.9	+0.9			
1+00	3.9	+0.9			
	4.0	+0.8			
	4.0	+0.8			
	4.0	+0.8			
	4.6	+0.2			
+50	5.1	0.3			
	6.0	1.2			
	6.3	1.5			
	6.5	1.7			
	6.4	1.6			
2+00	6.0	1.2			
	6.0	1.2			
	7.1	2.3			
	9.5	4.7			

2
Sound North

STA W 147+00; 0+00=N 10,010.0

DIST	SOUND	FLEV	DIST	SOUND	FLEV
10.00 0+00	5.0	0.4		10.2	5.6
(4.6)	5.0	0.4	+50	11.8	7.2
	5.1	0.5		12.4	7.8
	4.9	0.3		12.8	8.2
	4.9	0.3	(4.6)	12.9	8.3
+50	5.2	0.6	10.05	13.0	8.4
	5.7	1.1	3+00	13.0	8.4
	6.0	1.4			
	6.6	2.0			
	7.0	2.4			
1+00	7.1	2.5			
	7.2	2.6			
	7.2	2.6			
	6.5	1.9			
	6.2	1.6			
+50	6.0	1.4			
	5.5	0.9			
	5.3	0.7			
	5.2	0.6			
	5.0	0.4			
2+00	4.9	0.3			
	5.6	1.0			
	6.4	1.8			
	7.7	3.1			

SOUNDINGS FLY T.D.F. 4-22-59.

SOUND NORTH

STAW 146+00; 0+00=N 10050.0

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0-0700	6.4	1.9		4.4	+0.1
9. (4.5)	7.0	2.5	+50	6.7	2.2
	7.3	2.8		10.2	5.7
	7.2	2.7		11.7	7.2
	7.1	2.6	(4.4)	12.2	7.7
+50	6.7	2.2	10:15	12.5	8.1
	6.2	1.7	3f00	12.5	8.1
	5.7	1.2			
	5.5	1.0			
	5.1	0.6			
1-1400	5.0	0.5			
	4.6	0.1			
	4.9	0.4			
	4.9	0.4			
	5.0	0.5			
+50	4.6	0.1			
	4.3	+0.2			
	3.9	+0.6			
	3.5	+1.0			
	3.5	+1.0			
2 2+00	3.3	+1.2			
	3.2	+1.3			
	3.5	+1.0			
	3.9	+0.6			

SOUNDINGS FLY T.D.F. 4-22-59 8

SOUND NORTH

STAW 145+00; 0+00=N 10110.0

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0700	4.6	0.2		5.5	1.2
10:17 (4.4)	4.4	0.0	+50	9.2	4.9
	4.5	0.1		11.0	6.7
(4.3)	4.1	+0.3		12.0	7.7
10:20	4.0	+0.3	(4.2)	12.3	8.0
+50	4.0	+0.3	10:25	12.6	8.3
	4.2	+0.7	3f00	12.6	8.3
	4.2	+0.7			
	3.5	+0.8			
	3.0	+1.3			
1+00	3.0	+1.3			
	3.0	+1.3			
	3.0	+1.3			
	2.9	+1.4			
	3.1	+1.2			
+50	3.3	+1.0			
	3.2	+1.1			
	2.9	+1.4			
	3.0	+1.3			
	3.6	+0.7			
2+00	3.7	+0.6			
	3.7	+0.6			
	3.9	+0.4			
	4.4	0.1			

SOUNDINGS ELY T.A.F.

SOUND
NORTHSOUNDINGS ELY T.A.F. 4-22-59
X 10 ALLEN9
1
SOUND
NORTH

J STAW 144 + 00; 0 + 00 = N 10190.0

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0	0400	2.2	+2.0	14.2	
9	10:30	2.2	+50	14.2	10.0
(4)	(4.2)	2.2		14.0	
		2.4		13.4	
		2.5		13.0	
+	+50	2.5	+1.7	(4.1)	12.5
		2.5		10:38	12.2
		2.7			8.1
		3.4			
		4.2			
17	1400	5.6	1.4		
		9.0			
		12.0			
		13.1			
		13.3			
+	+50	13.5	9.3		
		13.4			
		13.4			
(4.1)		13.5			
10:35		13.5			
2	2400	13.7	9.5		
		14.0			
		14.1			
		14.2			

STAW 143 + 00; 0 + 00 = N 10250.0

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0	0400	4.2	0.3	13.3	
10:45	7.4	3.5	+50	13.1	9.2
(3.9)	11.0	7.1		13.0	
	13.2	9.3		12.6	
	13.5			12.1	
+	+50	13.2	9.3	(3.8)	12.0
		13.1		10:50	12.0
		13.2		3400	8.2
		13.2			8.2
		13.2			
		13.8			
1400	13.2	9.3			
		13.0			
		12.2			
		12.4			
		12.8			
+	+50	12.9	9.0		
		12.9			
		13.0			
		13.1			
		13.2			
2400	13.5	9.6			
		13.6			
		13.7			
		13.6			

SOUNDING ELY T.D.F. - 4.2.59

SOUND
North

5 STAW 142+00; 0400=N10260.0

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+	0+00	11.0		13.0	
9:	10:55	11.5	+50	13.0	
(4)	(3.7)	12.0		13.0	
		12.3		13.1	
		12.5	(3.6)	13.1	
+	+50	12.5	11:00	13.0	
		12.4	3+00	12.4	
		12.2			
		12.2			
		12.2			
1+	1+00	12.6			
		12.5			
		12.5			
		12.2			
		12.0			
+	+50	12.0			
		12.0			
		12.2			
		12.5			
		12.7			
2	2+00	12.7			
		12.7			
		12.8			
		12.8			

SOUNDING ELY TIERRA DEL FUEGO 10

4.23.59.

ALLEN

SOUND
North

5 STAW 141+00; 0400=N10050

DIST	SOUND	ELEV	DIST	SOUND	ELEV
(5.7)	0700	1.6	+4.1	13.3	7.6
9:30	1.4		+50	13.7	8.0
	1.2			14.0	8.3
	1.1			14.1	8.4
	1.1		(5.5)	14.4	8.7
+50	1.1	+4.6	9:35	14.3	8.6
	1.3		3+00	14.2	8.5
	1.6			14.3	8.6
	2.0				
	2.3				
1400	3.0	+2.7			
	3.5				
	4.2				
	4.8				
	5.0				
+50	5.0	+0.7			
	5.0				
	5.0				
	4.8				
	4.9				
2+00	5.0	+0.7			
	5.7	0.0			
	8.1	2.4			
	11.9	6.2			

ELY T.D.F. 4-23-59

	DIST	SOUND	ELEV	DIST	SOUND	ELEV
5	0700	2.5	+3.0	5.2		
9.40	(5.8)	2.6	+5.0	6.9	1.4	
4		2.5		11.0	5.5	
		1.9		13.1	7.6	
		1.5		13.7	8.2	
+	+50	1.5	+4.0	14.1	8.6	
		1.3		3+00 14.2	8.7	
		1.3		14.2	8.7	
		1.3		14.3	8.8	
		1.5		14.4	8.9	
17	1400	1.6	+3.9	(5.4) 14.5	9.0	
		2.2		9.45 +50 14.5	9.0	
		2.8				
		3.2				
		3.6				
+	+50	3.7	+1.8			
		3.9				
		3.9				
		4.0				
		3.8				
2	2400	3.8	+1.7			
		4.0				
		4.2				
		4.5				

4-23-59
ELY T.D.F.

	DIST	SOUND	ELEV	DIST	SOUND	ELEV
5	0700	2.3	+3.1	3.7		
9.45	(5.4)	2.3	+5.0	3.8	+1.6	
4		2.4		4.0	+1.4	
		2.5		4.3	+1.1	
		2.7		5.2	+0.2	
+	+50	2.7	+2.7	7.0	1.6	
		3.1		3+00 11.2	5.8	
		3.3		13.0	7.6	
		3.4		13.6	8.2	
		3.3		13.8	8.4	
17	1400	3.4	+2.0	13.9	8.5	
		2.3		+50 14.0	8.6	
		3.4		13.9	8.5	
		3.3		(5.3) 13.9	8.6	
		3.2		9.50 13.9	8.6	
+	+50	3.5	+1.9	13.9	8.6	
		3.7				
		3.6				
		3.4				
		3.4				
2	2400	3.6	+1.8			
		3.5				
		3.6				
		3.7				

ELY T.D.F. 4-23-55

SOUND

	STA W/38400; 0700=N/10050.0	DIST	SOUND	ELEV	DIST	SOUND	ELEV
0	0400	2.9			3.5		
9	(5.3)	2.9		+50	3.5		
		3.0			3.6		
		3.0			3.6		
		3.0			3.5		
7	+50	3.1			4.0		
		3.1		3+00	4.8		
		3.0			5.4		
		3.0			7.5		
		3.0			11.1		
1	1400	3.1			13.2		
		3.0		+50	13.6		
		3.1			13.7		
		3.0			13.8		
		3.0		(5.2)	13.9		
	+50	3.0		10:00	14.0		
		3.0		4+00	14.0		
		3.2			14.0		
		3.1					
		3.1					
2	2400	3.2					
		3.2					
		3.5					
		3.5					

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SOUND NORTH

	STA W/37400; 0700=N/10050.0	DIST	SOUND	ELEV	DIST	SOUND	ELEV
	1400	2.8		+2.3		3.2	
	(5.1)	2.3			+50	3.2	+1.9
		2.6				3.2	
		2.6				3.2	
		2.8				3.3	
	+50	2.6		+2.5		3.5	
		2.8			3+00	3.5	+1.6
		2.6				3.5	+1.6
		2.9				4.0	+1.1
		3.0				4.5	+0.6
	1400	3.0		+2.1		5.2	0.1
		2.6			+50	8.0	2.9
		2.8				12.0	6.9
		2.7				13.3	8.2
		2.7				13.5	8.4
	+50	2.9		+2.2		13.4	8.3
		2.8			4+00	13.3	8.2
		3.0				13.3	8.2
		3.0				13.3	8.2
		3.0				13.3	8.2
	2400	3.0		+2.1	(5.1)	13.3	8.2
		3.3			+50	13.3	8.2
		3.2			10:10	13.9	8.8
		3.2				13.8	8.7

ELY T.D.F.

SOUND
NORTH

STA W136+00; 0+00 = N10050.0

B	DIST	SOUND	ELEV	DIST	SOUND	ELEV
0	0+00	2.2			2.9	
9	(5.1)	2.2		+50	3.0	
		2.1			3.2	
		2.1			3.0	
		2.2			3.1	
	+50	2.2			3.4	
		2.2		3+00	3.3	
		2.2			3.6	
	(5.0)	2.2			3.3	
	10:15	2.2			3.5	
1	1+00	2.2			3.7	
		2.3		+50	3.7	
		2.5			4.0	
		2.5			4.5	
		2.5			6.2	
	+50	2.5			10.4	
		2.7		4+00	12.5	
		2.9			13.2	
		2.8			13.4	
		3.0			13.7	
2	2+00	3.0			13.8	
		3.1		+50	13.8	
		3.1		(5.0)	13.8	
		3.0		10:20	13.5	
					13.6	

ELY T.P.F. - 4-23-59

13

SOUND
NORTH

STA W135+00; 0+00 = N10050.0

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00	2.0	+2.9		2.8	
(4.9)	2.0		+50	2.9	+2.0
	2.0			3.0	
	2.0			3.1	
	2.0			3.0	
	+50	2.0	+2.9	3.2	
	2.0		3+00	3.5	+1.4
	2.0			3.7	
	2.0			3.3	
	2.0			3.5	
1+00	2.1	+2.8		3.8	
	2.2		+50	3.9	+1.0
	2.2			3.7	
	2.3			4.0	
	2.4			4.3	
	+50	2.3	+2.6	4.9	
	2.3		4+00	5.9	1.0
	2.4			9.9	5.0
	2.6			11.3	6.4
	2.6			12.8	7.9
2+00	2.8	+2.1		13.5	8.6
	2.7		+50	13.9	9.0
	2.7			13.8	8.9
	2.7			13.7	8.8

STAW 135+00 Cont North

DIST	SOUND	ELEV
	13.7	
	13.7	
5+00	13.6	8.7
	13.3	
	13.3	
(4.9)	13.3	
10:30	13.5	
+50	13.5	8.6

ELY T.D.P. 4-23-54 ALLEN

STAW 134+00; D+00 = N10050.0

DIST	SOUND	ELEV	DIST	SOUND	ELEV
6+00	2.0			3.0	
(4.8)	1.7		+50	3.0	
	1.7			3.1	
	1.7			3.1	
	1.7			3.3	
+50	2.0			3.4	
	2.2		3+00	3.5	
	2.0			3.2	
	2.0			3.5	
	2.0			3.7	
1+00	2.1			4.8	
	2.3		+50	4.8	
	2.3			5.0	
	2.4			6.0	
	2.4			6.0	
+50	2.3			6.6	
	2.5		4+00	7.0	
	2.5			7.0	
	2.6			8.3	
	2.5			10.9	
2+00	2.7			11.2	
	2.8		+50	12.4	
	3.0			12.9	
	3.0			12.9	

ELY T.D.F. 4-23-59

12
SOUND
NORTH

STA W134+00 Cont NORTH

DIST	SOUND	ELEV
	12.7	
	13.9	
5+00	13.0	
	13.0	
	13.0	
	13.1	
	13.1	
+50	13.1	
	13.2	
	13.3	
1 (4.7)	13.3	
10:40	13.2	
6+00	13.3	

STA W133+00; 0+00 = N10050.0

DIST	SOUND	ELEV	DIST	SOUND	ELEV
10:45 6+00	4.0	+0.7		5.2	
(4.7)	4.1		+50	5.5	0.8
	4.0			5.8	
	4.0			6.0	
	4.1			6.2	
+50	4.3	+0.4		6.5	
	4.5		3+00	6.5	1.8
	4.7			6.6	
	4.8			6.6	
	4.7			6.4	
1+00	4.9	0.2		6.4	
	4.9		+50	6.2	1.5
	4.9			6.2	
	4.8			6.2	
	4.9		(4.6)	6.3	
+50	5.0	0.3	10:50	6.7	2.1
	5.1		4+00	8.9	4.3
	5.1			11.0	6.4
	5.0			13.0	8.4
	5.0			13.3	8.7
2+00	5.0	0.3		13.4	8.8
	5.0		+50	13.5	8.9
	5.2			14.0	9.4
	5.2			14.0	9.4

STA W133 +00 CONT NORTH

	DIST	SOUND	ELEV
	(4.6)	14.0	9.4
	10:52	13.8	9.2
	5+00	14.0	9.4

+50

6+00

ELY T.D.F. 4-23-59.

16

STA W132 +00; 0+00 N10050.0

SOUND
NORTH

	DIST	SOUND	ELEV	DIST	SOUND	ELEV
	^{11:00} 0+00	4.9			7.5	
	(4.4)	4.9		+50	7.0	
		5.0			6.9	
		5.2			6.0	
		5.0			5.5	
	+50	5.2			5.1	
		5.5		3+00	4.8	
		5.5			4.7	
		5.7			4.6	
		6.0			4.6	
	1+00	6.0			5.0	
		7.0		+50	7.5	
		7.1			10.0	
	(4.4)	7.3			10.5	
	11:05	7.6			12.5	
	+50	8.0			13.0	
		8.2		4+00	13.2	
		8.2			13.5	
		8.2			13.9	
		8.6			14.0	
	2+00	8.7			14.0	
		8.5		+50	14.0	
		8.0		(4.3)	14.0	
		7.7		11:10	14.0	
					14.0	

ELY T.D.F.

SOUND
NORTH

STA W/31+00; 0+00-N/10050.0

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00	5.4	1.2		3.3	+0.9
(4.2)	5.3		+50	4.0	+0.2
	5.6			4.8	0.6
	5.6			7.0	2.8
	5.6			9.3	5.1
+50	5.5	1.3		10.9	6.7
	5.0	0.8	3+00	12.0	7.8
	4.9	0.7		12.9	8.7
	4.3	0.1		13.0	8.8
	4.0	+0.2		13.2	9.0
1+00	3.3	+0.9		13.8	9.6
	2.8		+50	13.9	9.7
	2.4			13.7	9.5
	2.0			13.3	9.1
	2.0		(4.0)	13.3	9.3
+50	1.9	+2.3	11:20	13.2	9.2
	1.9		4+00	13.2	9.2
	1.9				
	2.0				
	2.0				
2+00	2.0	+2.2			
	2.1	+2.1	+50		
	2.5	+1.7			
	2.9	+1.3			

ELY T.D.F.

17
SOUND
NORTH

STA W/30+00; 0+00-N/10050.0

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00	11.3			13.2	
(4.0)	11.4		+50	13.2	
	10.0			13.3	
	9.3			13.5	
	8.5		(3.9)	13.2	
+50	4.5		11:35	13.3	
	4.5		3+00	13.3	
	4.2				
	3.5				
	3.6				
1+00	4.0				
	4.7		+50		
	8.0				
	9.2				
	10.0				
+50	10.9				
	11.1		4+00		
	11.6				
	12.0				
	12.0				
2+00	12.2				
	12.5		+50		
	12.7				
	13.0				

Shore X-sections - ELY TIERRA
 DEL FUEGO - 4-22-59
 See page 24-
 x-sec
 ELY

STA N 96+00; 0+00 = W 14293.

STA	FLEV
0+00 = Top Proposed Shore	3.2
E 93 (W 14200)	2.5

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STA N 97+00; 0+00 = W 14259.0

0+00 = Top proposed shore	2.7
E 100	2.1
E 109 (W 14150)	

- see page 21 -

STA N 98+00; 0+00 = W 14212.0

0+00 = Top proposed shore	1.3
E 12 (W 14200)	1.6

19 SOUNDINGS ELY TIERRA DEL 18
 4-24-59 FUEGO SOUND
 EAST

STAN 10,000.0; 0+00 = W 14110.0

DIST	SOUND	ELEV	DIST	SOUND	ELEV
9:30 0+00	3.9	+1.1		2.9	
(5.0)	3.8		+50	3.1	+1.9
	3.9			3.2	
	4.0			3.2	
	3.9			3.1	
+50	3.9	+1.1		3.0	
	3.5		3+00	2.9	+2.1
	3.0			2.9	
	3.0			2.7	
	2.9			2.8	
1+00	2.9	+2.1		2.8	
	2.9		+50	2.8	+2.2
	3.0			2.7	
	3.1			2.6	
	2.9			2.5	
+50	2.5	+2.5		2.5	
	2.7		4+00	2.5	+2.5
	2.6			2.3	
	2.7			2.2	
	2.5			2.2	
2+00	2.9	+2.1		2.2	
	2.5		+50	2.2	+2.8
	2.6			2.1	
	2.7			2.1	

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STA N10000 Cont EAST					
DIST	Sound	ELEV	DIST	Sound	ELEV
	2.3			2.0	
	2.4			2.0	
5+00	2.3	+2.7		2.0	
	2.3		+50	2.0	+3.1
	2.3			2.0	
	2.3			2.2	
	2.7			2.7	
+50	2.2	+2.8		3.2	
	2.5		8+00	3.3	+1.8
	2.3			3.7	
	2.2			4.1	
	2.1			4.3	
6+00	2.1	+2.9		5.0	
	2.1		+50	5.2	0.1
	2.0			5.3	
	2.0			5.3	
	2.0			5.3	
+50	2.0	+3.0		5.5	
	2.0		9+00	5.5	0.4
	2.0			5.5	
(5.1)	2.0			5.5	
9.35	2.0	+3.1		5.5	
7+00	2.0			5.5	
	2.0		+50	5.5	0.4

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19

STAN10000 Cont EAST					
DIST	Sound	ELEV	DIST	Sound	ELEV
				5.5	
				5.5	
				5.5	
				5.6	
			10+00	5.7	0.6
				5.7	
				5.7	
				5.8	
				5.9	
			+50	6.1	0.9
				6.3	1.2
				6.8	1.7
				9.2	4.1
				12.2	7.1
			11+00	13.7	8.6
				14.5	9.4
				14.8	9.7
				14.8	9.7
				14.9	9.8
			+50	14.5	9.4
				14.2	9.1
				14.3	9.2
			(5.1)	14.7	9.6
			9.40	14.7	9.6
			12+00	14.7	9.6

STAN 99+00; 0+00=W14160.0

STAN 99+00 CONT EAST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00	4.2			5.0	
9:45	4.3		+50	4.7	
(5.2)	4.7			4.5	
	4.9			4.3	
	5.1			4.4	
+50	5.3			4.2	
	5.5		3+00	4.0	
	5.8			4.0	
	5.6			4.0	
	5.5			3.9	
1+00	5.7			3.5	
	5.5		+50	3.5	
	5.5			3.5	
	5.5			3.3	
	5.5		(5.2)	3.3	
+50	5.5		9:50	3.4	
	5.3		4+00	3.2	
	5.3			3.2	
	5.2			3.1	
	5.2			3.1	
2+00	5.5			3.0	
	5.1		+50	3.2	
	5.0			3.2	
	5.0			3.2	

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	3.1			2.7	
	3.1			2.5	
5+00	3.2			2.3	
	3.2		+50	2.2	
	3.2			2.2	
	3.2			2.1	
	3.3			2.2	
+50	3.2			2.2	
	3.2		8+00	2.0	
	3.2			2.2	
	3.4			2.2	
	3.3			2.3	
6+00	3.4			2.4	
	3.2		+50	2.7	
	3.1			3.0	
	3.1			3.2	
	3.1			3.3	
+50	3.1			3.9	
	3.0		9+00	4.1	
	3.0			4.3	
	3.0			4.6	
	2.9			4.9	
7+00	2.9			4.8	
	2.7		+50	4.9	

STAN 99400 CONT EAST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	5.3			14.7	
	5.6			14.8	
	5.6		(5.2)	15.0	
	5.2		9:57	15.0	
10400	5.0		+50	15.2	
	4.9				
	5.3				
	5.2				
	5.1				
+50	5.0				
	4.9				
	5.5				
	5.3				
	5.3				
11400	6.5				
	6.0				
	6.3				
(5.2)	9.5				
9:55	12.1				
+50	13.6				
	14.1				
	14.5				
	14.5				
	14.6				
12400	14.6				

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STAN 98400; 0400 - W			14200, 0		
DIST	SOUND	ELEV	DIST	SOUND	ELEV
10:05 0400	3.5	+1.7		6.1	
(5.2)	3.4		+50	6.1	0.9
	3.2			6.0	
	3.0			5.9	
	3.0		(5.2)	5.5	
+50	3.2	+2.0	10:10	5.4	
	3.3		2400	5.4	0.2
	3.5			5.3	
	3.3			5.3	
	3.4			5.2	
1700	3.5	+1.7		5.2	
	3.5		+50	5.2	0.0
	3.9			5.2	
	4.0			5.3	
	3.8			5.4	
+50	3.8	+1.4		5.6	
	4.0		4400	5.8	0.6
	4.1			5.5	
	4.3			5.6	
	4.7			5.7	
2400	4.9	+0.3		5.5	
	5.2		+50	5.7	0.5
	5.5			5.5	
	5.8			5.3	

21
SOUND
EAST

STA N 98+00 CONT EAST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	5.5			4.9	
	5.4			5.0	
5+00	5.6	0.4	+50	5.0	+0.2
	5.5			4.9	
	5.7			5.0	
	5.8		(5.2)	4.9	
	5.8		10:15	4.8	
+50	5.8	0.6	8+00	4.7	+0.5
	5.5			4.5	
	5.5			4.3	
	5.3			4.3	
	5.4			3.8	
6+00	5.3	0.1	+50	3.2	+2.0
	5.5			3.3	
	5.3			3.3	
	5.2			3.0	
	5.2			3.0	
+50	5.2	0.0	9+00	3.0	+2.2
	5.2			2.9	
	5.2			3.0	
	5.2			3.1	
	5.0			3.1	
7+00	5.2	0.0	+50	3.2	+2.0
	5.2			3.4	
	5.2			3.5	

STA N 98+00 CONT EAST

22

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	5.4			14.0	8.8
	5.0			14.0	8.8
10+00	5.5	0.3	+50	14.0	8.8
	5.7			14.2	9.0
	5.3			14.1	8.9
	5.3		(5.2)	14.0	8.8
	5.6		10:20	14.1	8.9
+50	5.5	0.3	13+00	14.0	8.8
	5.0				
	4.1				
	4.0				
	4.1				
11+00	4.0	+1.2	+50		
	3.9				
	3.7				
	3.6				
	3.5				
+50	4.0	+1.2			
	4.7	+0.5			
	6.0	0.8			
	10.2	5.0			
	13.0	7.8			
12+00	13.5	8.3			
	13.7	8.5			
	14.0	8.8			

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SOUND
EAST

STA N97+00 Cont EAST

23

STAN 97+00 } 0+00 = W 14150.0

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00	2.9			3.5	
10:25 (5.1)	3.0		+50	3.4	
	3.0			3.4	
	2.8			3.3	
	2.8			3.0	
+50	3.0			3.0	
	3.0		3+00	3.0	
	3.0			2.9	
	3.0			3.0	
	3.0			3.1	
1+00	3.2			3.7	
	3.2		+50	4.0	
	3.0			3.9	
	3.2			4.0	
	3.2			4.0	
+50	3.3			4.0	
	3.5		4+00	4.0	
	3.4			4.2	
(5.1)	3.3			4.5	
10:30	3.2			4.6	
2+00	3.2			5.0	
	3.0		+50	5.0	
	3.1			5.2	
	3.1			5.3	

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	5.3			4.8	
	5.5			5.2	
5+00	5.5		+50	5.2	
	5.7			5.2	
	5.6			5.0	
	5.8			4.7	
	5.7			4.0	
+50	5.7		8+00	3.8	
	6.0			3.5	
	5.6			3.1	
	5.5			2.9	
	5.5			2.7	
6+00	5.5		+50	2.5	
	5.3			2.5	
	5.2			2.5	
	5.0			2.5	
	5.1			2.3	
+50	5.0		9+00	2.2	
	4.9			2.1	
	4.8			2.0	
	4.6		(5.0)	2.0	
	4.5		10:35	2.0	
7+00	4.7		+50	2.0	
	4.7			2.0	
	4.7			2.0	

STAN 97+00 CONT EAST

	DIST	FOUND	ELEV	DIST	SOUND	ELEV
		2.0		(5.0)	14.2	
0		2.0		10:32	14.3	
(5)	10+00	2.0		+50	14.2	
		2.0				
		2.0				
		2.0				
		2.0				
	+50	2.0				
		2.1				
		2.3				
		2.7				
1		3.2				
	11+00	3.9				
		4.5				
		6.0				
		9.8				
		11.0				
	+50	13.0				
		13.1				
(5)		13.1				
1		13.1				
2		13.5				
	12+00	13.7				
		13.8				
		14.0				

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EAST TIERRA DEL FUEGO

SOUND²⁴
EAST

STAN 96+00; 0+00 = W 14200.0					
DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00	2.8	+2.2		2.3	
10:40	2.8		+50	2.2	+2.8
(5.0)	2.5			2.0	
	2.5			2.1	
	2.7			2.2	
+50	2.7	+2.3		2.7	
	2.8		3+00	2.5	+2.5
	3.0			2.3	
	2.9			2.5	
	2.5			2.8	
1+00	2.1	+2.9		3.0	
	2.0		+50	3.0	+2.0
	2.1			3.0	
	2.3			3.1	
	2.2			3.1	
+50	2.4	+2.6		2.9	
	2.4		4+00	3.0	+2.0
	2.6			3.0	
	2.7			3.0	
	2.8			3.0	
2+00	3.0	+2.0		3.0	
	3.0		+50	3.0	+2.0
	2.8			3.0	
	2.6			3.0	

STA N96+00 CONT EAST

	DIST	SOUND	ELEV	DIST	SOUND	ELEV
		3.0			3.0	
0		3.1			3.0	
10	5+00	3.0	+2.0	+50	3.0	+1.9
		3.0			3.0	
		3.0			3.1	
		3.1			3.5	
		3.0			3.9	
	+50	3.0	+2.0	8+00	4.1	+0.8
		3.0			4.1	
		3.0			4.0	
	(4.9)	3.0	+1.9		4.2	
1	10:45	3.0			4.3	
	6+00	3.0		+50	4.0	+0.9
		3.0			3.8	
		3.0			3.5	
		3.0			3.3	
		3.0			3.2	
	+50	3.0	+1.9	9+00	3.0	+1.9
		3.0			2.9	
(5)		3.0			2.5	
1		3.0			2.2	
2		3.0			2.2	
	7+00	3.0	+1.9	+50	2.0	+2.9
		3.0			2.1	
		3.0			2.3	

STA N96+00 CONT EAST

25

	DIST	SOUND	ELEV	DIST	SOUND	ELEV
		2.1			14.3	9.4
		2.0			14.4	9.5
	10+00	2.0	+2.9	+50	14.4	9.5
		2.0			14.6	9.7
		2.0			15.0	10.1
		2.1		(4.9)	15.2	10.3
		2.1		10+50	15.0	10.1
	+50	2.0	+2.9	13+00	14.9	10.0
		2.0				
		2.3				
		2.3				
		2.3				
		2.5	+2.4	11+00	2.5	+2.4
		2.9				
		3.0				
		3.5				
		4.1				
	+50	5.4	0.5	+50	5.4	0.5
		5.7	0.8			
		6.1	1.2			
		8.0	3.1			
		11.0	6.1			
	12+00	12.8	7.9			
		13.5	8.6			
		14.1	9.2			

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SOUND
EAST

STAN 95400 CONT EAST

26

	DIST	SOUND	ELEV	DIST	SOUND	ELEV
				14	2.0	0.0
0	0.55	2.0			2.0	
1	(4.8)	2.0	+50		2.0	
		2.0			2.0	
		2.1			2.0	
		2.4			2.1	
	+50	2.5			2.0	
		2.2	3400		2.2	
		2.1			2.7	
		2.0			2.9	
		2.0			2.9	
1	1400	2.0			2.8	
		2.0	+50		2.8	
		2.0			2.7	
		2.0			2.7	
		1.7			2.5	
	+50	1.8			2.5	
		1.9	4400		2.5	
		2.0			2.5	
(5)		2.0			2.5	
1		2.0			2.5	
2	2400	2.1			2.6	
		2.1	+50		2.9	
		2.0			2.8	
		2.0			2.7	

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	2.6			2.9	
	2.6			2.9	
5400	2.6		+50	2.9	
	2.7			2.9	
	2.7			2.9	
	2.7			2.8	
	2.8			2.8	
+50	3.0		8400	2.8	
	2.9			2.7	
	2.7			2.7	
	2.9			2.8	
	2.9			2.9	
6400	3.0		+50	2.9	
	2.9			3.0	
	3.0			3.5	
	3.0			3.6	
	2.9			3.6	
+50	3.0		9400	3.5	
	3.0			3.4	
	3.0			3.3	
(4.8)	3.0			3.2	
11:00	3.0			3.2	
7400	3.0		+50	3.1	
	3.0			3.1	
	2.9			2.9	

STA 95400 CONT EAST

	DIST	SOUND ELEV	DIST	SOUND ELEV
1		2.4		5.2
0		2.2		5.3
(E)	10400	2.2	+50	6.0
		2.2		7.0
		2.1		8.0
		2.0		8.5
		2.0		8.7
	+50	2.3	13400	8.6
		2.6		6.0
		2.8		5.5
		3.3		5.3
1		4.0		5.3
	11400	4.0	+50	5.3
		4.8		5.1
		5.0		4.9
		5.3		4.9
		5.8		4.6
	+50	6.0	14400	5.0
		5.9		5.0
(S)		6.0		5.3
1		5.5	(4.8)	8.2
2		5.0	11105	10.9
	12400	4.7	+50	12.8
		4.6		13.5
		4.7		13.7

STAN 95400 CONT EAST

27

DIST	SOUND ELEV
	13.5
	13.5
13400	13.5
	13.5
	13.7
	14.0
	13.8
+50	13.8

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ELY T.D.F.

SOUND
EAST

STA N 94+00 CONT EAST 28

STA N 94+00			0+00 = W 14000.0			STA N 94+00 CONT EAST			28		
DIST	SOUND	ELEV	DIST	SOUND	ELEV	DIST	SOUND	ELEV	DIST	SOUND	ELEV
1	DIST										
0	0+00	1.9 +2.8		2.0							
1	(4.7)	2.0 +2.7	+50	2.0	+2.7	5+00	2.9 +1.8	+50	3.2	+1.5	
		2.3		1.8			3.0		3.2		
		2.3		1.7			3.0		3.2		
		2.5		1.6			3.0		3.5		
	+50	2.5 +2.2		1.6			3.0		3.4		
		2.3	3+00	1.5	+3.2	+50	3.1 +1.6	8+00	3.3	+1.4	
		2.5		1.5			3.2		3.5		
		2.5		1.5			4.0		4.0		
		2.5		1.5			4.0		4.2		
1	1+00	2.5 +2.2		1.5			3.5		4.6		
		2.5	+50	1.5	+3.2	6+00	3.2 +1.5	+50	4.7	0.0	
		2.5		1.5			3.7		5.3		
		2.7		1.5			3.3		5.5		
		2.3		1.5			3.2		5.6		
	+50	2.2 +2.5		1.5			3.2		5.6		
		2.3	4+00	1.6	+3.1	+50	3.0 +1.7	9+00	6.0	1.3	
		2.0		1.6			3.0		6.2		
		2.2		1.7			3.0		5.8		
1		2.0		2.0			3.0		(4.6)	5.7	
2	2+00	2.0 +2.7		1.9			3.0		11:20	5.9	
		2.1	+50	2.0	+2.7	7+00	3.0 +1.7	+50	6.0	1.4	
		1.8		2.2			3.0		5.5		
		2.0		2.3			3.2		4.8		

STAN 9400 CONT EAST

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29
SOUND
EAST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	4.0			7.2	2.6
	4.0			10.5	5.9
10+00	4.0	+0.6	+50	13.2	8.6
	4.2			15.0	10.4
	4.3			15.5	10.9
	5.1			15.5	10.9
	5.2			15.3	10.7
+50	5.5	0.9	13+00	14.5	9.9
	6.0			14.5	
	6.0			14.5	
	6.2		(4.6)	14.5	
	6.2		11:25	14.5	
11+00	5.8	1.2	+50	14.5	9.9
	5.0	0.4			
	4.5	+0.2			
	3.7				
	3.7				
+50	3.5	+1.1	14+00		
	3.5				
	3.2				
	3.2				
2	3.3				
12+00	3.5	+1.1	+50		
	3.5	+1.1			
	4.3	+0.3			

STAN 9300; 0+00 = W/13400.0

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00	2.2			6.7	
11:35	3.3		+50	6.8	
(4.5)	4.2			6.8	
	5.2			6.3	
	5.5		(4.3)	5.9	
+50	5.5		11:45	5.4	
	5.0		3+00	5.5	
	4.5			5.3	
(4.4)	3.7			5.0	
11:40	3.3			4.1	
1+00	3.0			4.0	
	3.1		+50	4.0	
	3.2			4.0	
	3.3			4.1	
	3.7			4.2	
+50	4.6			4.7	
	5.0		4+00	5.0	
	5.1			5.3	
	5.0			5.3	
	5.3			5.0	
2+00	5.5			4.6	
	5.8		+50	4.0	
	6.2			4.0	
	6.5			3.7	

STA N 93+00 CONT EAST

DIST	Sound	ELEV	DIST	Sound	ELEV
	3.5		(4.2)	14.0	
	3.4		11.50	14.2	
5+00	3.2		+50	14.2	
	3.3				
	3.4				
	3.2				
	3.2				
+50	3.5		8+00		
	3.8				
	3.4				
	4.3				
	7.8				
6+00	10.3		+50		
	11.5				
	12.4				
	12.6				
	13.1				
+50	13.5		9+00		
	13.7				
	14.0				
	14.0				
	14.0				
7+00	14.0				
	14.2				
	14.0				

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S. 30°
EAST

STA N 92+00; 0+00=W 13370.0

DIST	Sound	ELEV	DIST	Sound	ELEV
11.52 0+00	1.5	+2.7		6.5	2.4
(4.2)	1.8	+2.4	+50	5.0	0.9
	1.8	+2.4		4.2	0.1
	3.2	+1.0		4.3	0.2
	4.0	+0.2		4.3	0.2
+50	4.5	0.3		4.0	+0.1
	4.3	0.1	3+00	4.0	+0.1
	4.9	0.7		4.0	+0.1
	8.4	1.2		3.8	+0.3
	5.6	1.4		3.8	+0.3
1+00	6.0	1.8		3.7	+0.4
	6.2	2.0	+50	3.7	+0.4
	6.5	2.3		3.6	+0.5
(4.1)	7.2	3.1		3.5	+0.6
11.55	7.2	3.1		3.3	+0.8
+50	7.1	3.0		3.4	+0.7
	7.2	3.1	4+00	3.2	+0.9
	7.0	2.9		3.1	+1.0
	7.4	3.3		3.1	
	7.3	3.2		3.1	
2+00	7.5	3.4		3.1	
	7.0	2.9	+50	3.1	
	7.0	2.9		3.1	+1.0
	6.6	2.5		3.5	+0.6

STAN 92 +00 CONT EAST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	3.3	+0.8		13.3	9.3
	3.4	+0.7		13.5	9.5
5+00	3.6	+0.5	+50	14.0	10.0
	3.6	+0.5		14.5	10.5
	3.6	+0.5		14.9	10.9
	3.6	+0.5	(4.0)	14.7	10.7
	4.1	0.0	12:03	14.2	10.2
+50	4.1	0.0	8+00	14.3	10.3
	4.0	+0.1			
	4.0	+0.1			
(4.0)	4.3	0.3			
12:00	5.1	1.1			
6+00	4.8	0.8			
	5.2	1.2			
	6.0	2.0			
	6.9	2.9			
	6.0	2.0			
+50	5.5	1.5			
	6.7	2.7			
	8.4	4.4			
	10.7	6.7			
	12.0	8.0			
7+00	12.4	8.4			
	12.9	8.9			
	13.0	9.0			

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STAN 91+00; 0+00 = W/3500.0					
DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00	1.1			8.0	
(3.9)	1.1		+50	7.5	
	1.1			7.5	
	1.1			7.0	
	1.2			7.0	
+50	1.2			7.0	
	1.5		3+00	6.7	
	1.6			6.5	
	2.0			6.0	
	2.7			5.5	
1+00	3.2			5.0	
	3.3		+50	4.6	
	4.0			4.5	
	5.1			4.5	
	6.0			4.3	
+50	7.0			4.6	
	7.5		4+00	4.0	
	7.3			4.2	
	7.3			4.0	
	7.7			4.0	
2+00	8.0			4.0	
	8.1		+50	3.5	
	8.0			3.5	
	8.0			3.3	

STAN 91400 CONT EAST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	3.3			4.5	
	3.3			4.5	
5+00	3.3		+50	5.7	
	3.2			9.5	
	3.2			12.5	
	3.0			16.0	
	3.0			15.3	
+50	3.0		8+00	11.1	
	3.0			11.3	
	3.2			12.1	
(3.9)	3.2			12.2	
12:15	3.2			12.3	
6+00	3.3		+50	12.5	
	3.3			12.6	
	3.5		(3.8)	13.0	
	3.9		12:20	13.7	
	4.0			14.0	
+50	3.9		9+00	14.5	
	4.2				
	4.2				
	4.2				
	4.5				
7+00	5.0				
	4.3				
	4.5				

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STAN 90400; 0400=W 13550.0						32 SOUND EAST
DIST	SOUND	ELEV	DIST	SOUND	ELEV	
2:05 0700						
(2.1)	0.0	+2.1	+50	5.3		3.2
	0.3	+1.8		5.3		
	1.0	+1.1		5.0		
	2.9	0.8		4.9		
+50	3.9	1.8		4.8		
	4.0		3+00	4.5		2.4
	4.8			4.5		
	5.2			4.1		
	5.2			3.7		
1400	5.1	3.0		3.5		
	5.2		+50	3.3		1.2
	5.5			3.1		
	5.9			3.1		
	6.3			3.3		
+50	6.3	4.2	(2.1)	3.3		
	6.0		2:10 4+00	3.9		1.8
	6.0			3.3		
	6.1			2.5		
	5.6			2.7		
2+00	6.0	3.9		2.8		
	5.5		+50	3.1		1.0
	5.7			2.8		
	6.0			3.0		

STAN 90+00 CONT EAST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	2.7	0.6		2.3	
	2.7			2.3	
5+00	2.6	0.5		2.6	
	2.6		+50	4.0	1.9
	3.1			8.1	6.0
	3.1			9.2	7.1
	3.0		(2.0)	10.3	8.3
+50	2.8	0.7	2:15	10.5	
	2.5		8+00	11.0	
	2.3			12.5	
	2.0			13.0	
	1.9			13.6	
6+00	1.6	+0.5		14.1	
	1.5		+50	13.5	
	1.6			13.0	
	1.9			12.8	
	2.0			12.5	
+50	2.0	+0.1	2:16	11.9	
	2.0		9+00	12.0	
	2.0			12.0	
	2.0				
	2.2				
7+00	2.2	0.1			
	2.5				

- See Page 4 -
 Soundings ELY TIERRA DEL FUEGO ³³
 STAN 89+00; 0+00 = W 13730.0
 SOUND EAST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00				6.8	
			+50	6.8	
				6.6	
				6.6	
				6.2	
			+50	6.3	
				6.3	
			3+00	6.3	
				6.1	
				6.0	
			2:30	0.1	
			(1.9)	0.3	
				6.3	
			1+00	1.0	
				2:35	6.1
			+50	6.0	
				5.8	
				5.9	
				5.9	
			+50	5.8	
				5.2	
				5.3	
			4+00	5.3	
				5.1	
				5.3	
				5.5	
				5.5	
			2+00	6.5	
				6.5	
			+50	5.7	
				5.2	
				5.3	

X-See Page 4 will
 Tie in with
 These soundings

STA N 89+00 CONT EAST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	4.8			4.5	
	4.7			4.1	
5+00	4.7		+50	4.1	
	4.3			4.5	
	4.2			4.2	
	4.5			4.3	
	4.4			5.3	
+50	4.3		8+00	6.1	
	4.1			6.2	
	4.1			6.7	
	4.0			7.5	
	3.8			7.7	
6+00	3.6		+50	7.3	
	3.8			7.3	
	3.7			9.0	
(1.8)	4.0			9.5	
2:40	4.0			10.0	
+50	4.0		9+00	11.5	
	4.1			12.0	
	4.0			12.6	
	4.2			13.0	
	4.3			12.8	
7+00	4.5		+50	12.5	
	4.0		(1.7)	12.5	
	4.5		2:45	12.5	

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STA N 88+00; 0+00 = W 13,800.0

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	1.0	+3.7		11.2	6.5
9:35 0+00 (4.7)	2.0	+2.7	+50	11.2	6.5
	2.5	+2.2		11.4	6.7
	3.1	+1.6		11.0	6.3
	3.5	+1.2		10.9	6.2
+50	4.0	+0.7		10.2	5.8
	4.9	0.2	3+00	10.4	5.7
	5.3	0.6		10.5	5.8
(4.7)	6.7	2.0		9.7	5.0
9:40	7.2	2.5		9.8	5.1
1+00	8.6	3.9		9.8	5.1
	9.2	4.5	+50	9.8	5.1
	10.9	6.2		9.5	4.8
	11.1	6.4		9.2	4.5
	11.9	7.2		9.0	4.3
+50	11.8	7.1		9.0	4.3
	11.7	7.0	4+00	8.5	3.8
	11.6	6.9		8.5	3.8
	11.6	6.9		8.5	3.8
	11.6	6.9		8.0	3.3
2+00	11.2	6.5		7.5	2.8
	11.0	6.3	+50	8.3	3.6
	11.0	6.3		8.5	3.8
	11.2	6.5		8.0	3.3

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SOUND
EAST

STAN 88+00 Cant EAST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	8.0	3.3		11.5	6.9
	7.9	3.2		11.8	7.2
5+00	7.7	3.0	+50	12.0	7.4
	7.8	3.1		12.2	7.6
	7.8	3.1		12.3	7.7
	7.8	3.1		12.0	7.4
	8.0	3.3		12.1	7.5
+50	7.9	3.2	8+00	12.8	8.2
	7.5	2.8		12.7	8.1
	8.2	3.5		12.6	8.0
	8.2	3.5		12.7	8.1
	8.1	3.4		13.2	8.6
6+00	8.1	3.4	+50	13.3	
	8.5	3.8		13.7	
	8.4	3.7		13.8	
(4.6)	8.9	4.3	(4.6)	12.9	
9:50	9.0	4.4	9:53	13.0	
+50	9.2	4.6	9+00	13.1	
	9.2	4.6			
	9.4	4.8			
	9.6	5.0			
	10.0	5.4			
7+00	10.2	5.6			
	10.5	5.9			
	10.6	6.0			

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STAN 87+00; 0+00=W 14 000.0 EAST					
DIST	SOUND	ELEV	DIST	SOUND	ELEV
	0.5			12.0	
(4.6)	0.6		+50	12.0	
	1.0			12.0	
	1.3			12.3	
	1.3			12.2	
+50	1.4			12.0	
	1.5		3+00	12.0	
	1.5			12.0	
	1.6			11.9	
	1.7		(4.5)	11.8	
1+00	1.9		10:20	11.5	
	2.5		+50	11.5	
	3.0			11.5	
	3.3			11.5	
	4.0			11.2	
+50	4.6			10.5	
	6.9		4+00	10.0	
	8.2			9.8	
	9.0			10.2	
	9.6			10.3	
2+00	10.1			10.3	
	10.8		+50	10.0	
	11.0			9.5	
	11.5			9.0	

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SOUND

STAN 87400 Cont EAST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	8.8		(4.5)	9.5	
	8.8		10:25	9.9	
5+00	8.5		+50	9.9	
	8.2			10.0	
	8.3			10.1	
	8.0			10.5	
	8.0			11.6	
+50	8.1		8+00	12.0	
	7.9			12.0	
	8.1			12.1	
	8.0			12.6	
	8.0			12.8	
6+00	8.3		+50	12.5	
	8.2			13.0	
	8.2			12.6	
	8.2			12.4	
	8.5			13.2	
+50	8.8		9+00	13.7	
	9.0			13.0	
	9.2			13.6	
	9.3		(4.5)	13.7	
	9.5		10:30	14.0	
7+00	9.3		+50	14.0	
	9.5				
	9.7				

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SOUND
EAST

STAN 86+00; 0+00 = W 14050.0

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	1.6	+2.8		12.0	7.6
(4.4)	2.1	+2.3	+50	12.0	7.6
	2.1	+2.3		12.0	7.6
	2.1	+2.3		11.9	7.5
	2.1	+2.3	4.4	11.5	7.1
+50	2.5	+1.9	10:45	11.9	7.5
	2.5	+1.9	3+00	12.0	7.6
	3.0	+1.4		11.5	7.1
	3.4	+1.0		11.3	6.9
	3.7	+0.7		11.0	6.6
1+00	4.6	0.2		11.0	6.6
	6.4	2.0	+50	10.8	6.4
	8.4	4.0		10.5	6.1
	9.0	4.6		10.2	5.8
	10.0	5.6		10.0	5.6
+50	11.0	6.6		9.3	4.9
	11.1	6.7	4+00	9.3	4.9
	12.3	7.9		9.0	4.6
	12.5	8.1		9.0	4.6
	12.4	8.0		8.9	4.5
2+00	12.3	7.9		8.0	3.6
	12.5	8.1	+50	8.2	3.8
	12.5	8.1		8.2	3.8
	12.0	7.6		8.3	3.9

STAN 86+00 CONT EAST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	8.5	4.1		12.7	8.4
	8.2	3.8		12.6	
5+00	8.0	3.6	+50	13.1	
	8.0	3.6		13.0	
	8.4	4.0		12.8	
	8.5	4.1		12.8	
	8.5	4.1		13.1	
+50	8.5	4.1	8+00	13.5	
	8.7	4.3		13.1	
	8.7	4.3		14.0	
	8.6	4.2		13.1	
	8.9	4.5		13.9	
6+00	9.0	4.6	+50	13.2	
	9.0	4.6	10:55	13.5	
	9.4	5.0	(4.3)		
	9.5	5.1			
	9.3	4.9			
+50	9.2	4.8	9+00		
	9.5	5.1			
	9.9	5.5			
(4.3)	10.5	6.2			
10:50	10.8	6.5			
7+00	11.3	7.0	+50		
	11.9	7.6			
	12.3	8.0			

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SOUND
EAST

STAN 85+00; 0+00 W 14100.0					
DIST	SOUND	ELEV	DIST	SOUND	ELEV
11:10 0+00	1.5				
(4.2)	2.1		+50	11.8	
	2.9			11.7	
	3.1			10.8	
	4.0			10.6	
+50	4.4			10.7	
	6.5		3+00	10.8	
	8.0			10.4	
	9.2			9.8	
	10.9			9.6	
1+00	11.9			9.4	
	12.5		+50	9.5	
	13.5			9.0	
	13.7			8.4	
	13.8			8.5	
+50	13.9			8.5	
	12.8		4+00	8.0	
	12.6			8.1	
	12.5			8.1	
	12.6			8.0	
2+00	12.5			8.1	
	12.2		+50	8.1	
	12.0			8.0	
	11.6			8.1	

STAN 85+00 CONT EAST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
(4.1)	8.2			13.3	
11:15	8.2			13.7	
5+00	8.2		+50	13.7	
	8.4			13.0	
	8.4			13.5	
	8.0		(4.0)	13.2	
	8.1		11:20	13.6	
+50	8.7		8+00	13.6	
	8.2				
	8.5				
	9.1				
	9.4				
6+00	10.6		+50		
	12.0				
	12.4				
	12.5				
	12.7				
+50	13.0		9+00		
	13.0				
	13.5				
	13.0				
	12.9				
7+00	13.2				
	13.2				
	13.0				

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STAN 84+50; 0+00=W 14200.0						38 SOUND EAST
DIST	SOUND	ELEV	DIST	SOUND	ELEV	
11:30	1.5	+2.5		12.0		8.0
(4.0)	2.1	+1.9	+50	11.0		7.0
	2.5	+1.5		11.5		7.5
	3.0	+1.0		11.2		7.2
	3.2	+0.8	(3.9)	10.5		6.6
+50	4.0	0.0	11:35	10.8		6.9
	4.8	0.8	3+00	10.5		6.6
	6.9	2.9		10.2		6.3
	8.0	4.0		9.5		5.6
	10.0	6.0		9.5		5.6
1+00	11.3	7.3		9.5		5.6
	12.5	8.5	+50	9.4		5.5
	13.0	9.0		9.0		5.1
	12.9	8.9		8.4		4.5
	13.1	9.1		8.1		4.2
+50	13.2	9.2		8.0		4.1
	13.3	9.3	4+00	8.0		4.1
	13.2	9.2		8.1		4.2
	13.2	9.2		8.1		4.2
	13.0	9.0		8.3		4.4
2+00	13.0	9.0		8.2		4.3
	12.8	8.8	+50	8.2		4.3
	12.3	8.3		8.0		4.1
	12.1	8.1		8.0		4.1

STAN 84+00 CONT EAST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	8.1	4.2			
	7.9	4.0			
5+00	8.0	4.1	+50		
	8.5	4.6			
	8.8	4.9			
(3.9)	9.7	5.8			
11:40	10.0	6.1			
+50	10.2	6.3	8+00		
	11.0	7.1			
	11.7	7.8			
	12.0	8.1			
	12.6	8.7			
6+00	13.0	9.1			
	13.0	9.1			
	13.0	9.1			
	12.9	9.0			
	12.9	9.0			
+50	13.0	9.1			
	13.0	9.1			
	13.1	9.2			
(3.9)	13.0	9.1			
11:42	13.2	9.3			
7+00	12.7	8.8			

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SOUND
EAST

STAN 83+00; 0+00 = W 14380.0

DIST	SOUND	FLEV	DIST	SOUND	ELEV
	2.0			12.5	
11:55 0+00 (3.8)	2.3		+50	13.1	
	2.5			13.2	
	2.6			13.4	
	2.7			13.2	
+50	2.6			13.2	
	2.3		3+00	13.2	
	2.2			12.5	
	2.2			12.3	
	2.5			12.2	
1+00	2.9			12.0	
	3.1		+50	11.0	
	4.0			10.3	
	6.1			10.0	
	7.4			9.9	
+50	9.0		(3.7)	9.5	
	10.2		12:00	9.0	
	11.3		4+00	9.1	
	12.9			8.9	
	13.2			8.5	
2+00	13.4			8.2	
	13.5		+50	8.3	
	13.3			8.8	
	13.5			9.0	

STAN 83700 CONT EAST

D. DIST	SOUND	ELEV	DIST	SOUND	ELEV
	9.0			13.0	
	9.0			13.0	
5	5+00	9.0	+50	13.1	
	9.0				
	8.8				
(8.7				
/	8.5				
+	+50	8.8	8+00		
	8.0				
	8.0				
	8.7				
	8.2				
6	6+00	10.1			
	11.2				
	12.1				
	12.5				
	12.7				
+	+50	12.8			
	13.0				
	12.8				
((3.7)	13.0			
11	12,05	13.1			
7	7+00	12.5			
	12.2				
	13.4				

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STAN	82+00	87+00	W	144	440.0	40	SOUND	EAST
DIST	SOUND	ELEV	DNT	SOUND	ELEV			
	0+00						14.5	10.1
							14.3	9.9
							14.0	9.6
	9.10	1.2	+3.2				13.5	9.1
	(4.4)	2.7	+1.7				13.3	8.9
	+50	3.6	+0.8				13.2	8.8
		3.8	+0.6	3+00			12.9	8.5
		4.3	+0.1				12.1	7.7
		4.6	0.2				11.9	7.5
		4.7	0.3				11.5	7.1
	1+00	5.6	0.8				11.0	6.6
		8.5	4.1	+50			10.5	6.1
		9.2	4.8				10.5	6.1
		11.0	6.6				9.3	4.9
		11.5	7.1				9.2	4.8
	+50	12.0	7.6				9.2	4.8
		12.2	7.8	4+00			9.2	4.8
		13.0	8.6				9.0	4.6
	(4.4)	13.8	9.4				8.9	4.5
	9.15	14.2	9.8				9.2	4.8
	2+00	14.2	9.8				8.7	4.3
		14.2	9.8	+50			8.8	4.4
		14.6	10.2				8.9	4.5
		14.5	10.1				9.3	4.9

STAN 82+00 CONT EAST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
(4.5)	9.4	4.9		14.2	
9:20	9.0	4.5		14.0	
5-5+00	10.1	5.6	+50	13.6	
	11.0	6.5		13.5	
	11.2	6.7		13.6	
(E)	11.3	6.8		13.7	
11	12.0	7.5		13.8	
+ +50	12.0	7.5	8+00	13.5	
	12.3	7.8		14.0	
	12.7	8.2		14.1	
	13.0	8.5	(4.6)	14.0	
	13.0	8.5	9:25	14.1	
6-6+00	13.3	8.8	+50	14.7	
	13.4	8.9			
	13.5	9.0			
	13.8	9.3			
	14.0	9.5			
+ +50	14.3				
	14.3				
	14.2				
(E)	14.2				
11	14.3				
7-7+00	14.3				
	14.0				
	14.2				

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SOUND
EAST

STAN 81+00; D+00=W 145/10.0					
DIST	SOUND	ELEV	DIST	SOUND	ELEV
D+00				13.5	
9:30			+50	13.3	
(4.6)	0.3			13.1	
	1.6			12.5	
	2.0			12.3	
+50	2.0			12.0	
	2.1		3+00	11.5	
	2.6			11.5	
	3.2			11.7	
	5.2			10.5	
1+00	10.5			10.1	
	11.9		+50	10.0	
	13.1			9.8	
	13.6			9.2	
	13.9			9.2	
+50	14.0			9.1	
	13.9		4+00	9.0	
	13.9			9.0	
(4.6)	13.5			9.4	
9:35	13.5			10.9	
2+00	13.7			11.8	
	13.9		+50	12.6	
	13.5			13.2	
	13.5			13.5	

STAN 81400 CONT EAST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
		13.5			13.5
		13.7			13.6
5	5+00	13.6	+50		13.7
		13.9			14.0
		14.0			14.0
(E)		13.9			14.6
11		13.7			14.8
+	+50	13.5	8+00		14.7
		13.5			14.4
		13.4			14.0
	(4.6)	13.2	(4.6)		14.0
	9:40	13.1	9:42		14.0
6	6+00	13.1	+50		14.0
		13.3			
		13.2			
		13.1			
		13.2			
+	+50	13.2			
		13.1			
		13.0			
(E)		13.0			
11		13.1			
7	7+00	13.2			
		13.3			
		13.3			

STAN 80+00, 0+00 = W 14570.0				42 SOUND EAST	
DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00				13.3	8.6
			+50	13.0	8.3
				12.3	7.6
(4.7)				12.0	7.3
9:55	0.6	+4.1		11.5	6.8
+50	1.5	+3.2		11.0	6.3
	3.1	+1.6	3+00	10.5	5.8
	3.1	+1.6		10.3	5.6
	3.5	+1.2		9.9	5.2
	5.9	1.2		10.3	5.6
1+00	10.7	6.0		11.0	6.3
	13.3	8.6	+50	11.5	6.8
	13.3	8.6		11.7	7.0
	13.7	9.0		12.1	7.4
	14.0	9.3	(4.7)	12.5	7.8
+50	14.3	9.6	10:00	13.0	8.3
	14.3	9.6	4+00	13.2	8.5
	14.5	9.8		13.5	
	14.5	9.8		13.7	
	14.9	10.2		13.6	
2+00	15.0	10.3		14.0	
	14.2	9.5	+50	14.0	
	14.3	9.6		14.0	
	14.0	9.3		14.0	

STAN 80+00 CONT EAST

D	DIST	SOUND	ELEV	DIST	SOUND	ELEV
		14.0			13.9	
		14.1			14.0	
5	5+00	14.0		+50	14.0	
		14.0			14.0	
		14.1			14.2	
(E)		14.3		(4.7)	14.4	
11		14.5		10:05	14.1	
+	+50	14.5		8+00	13.5	
		14.3				
		14.1				
		14.2				
		14.2				
6	6+00	14.0				
		14.0				
		14.0				
		13.5				
		13.5				
+	+50	13.5				
		13.2				
		13.2				
(E)		13.5				
11		13.8				
7	7+00	14.0				
		14.0				
		14.0				

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SOUND

STAN 79+00; 0+00 = W 14650.0 EAST						
DIST	SOUND	ELEV	DIST	SOUND	ELEV	
0+00			10:15	14.2		
			+50	14.0		
			(4.8)	13.6		8.8
				13.5		
				13.4		
				13.1		
+50						
10:10	0.2	+4.5	3+00	13.0		8.2
(4.7)	1.5	+3.2		12.9		
	2.0	+2.7		12.5		
	2.0	+2.7		12.2		
1+00	3.0	+1.7		12.2		
	6.0	1.3	+50	12.0		7.2
	10.5	5.8		12.2		
	11.0	6.3		12.2		
	14.0			12.3		
+50	14.1	9.4		12.6		
	14.7		4+00	12.9		8.1
	15.2			12.8		
	15.0			13.0		
	15.0			13.0		
2+00	15.0	10.3		13.0		
	15.0		+50	13.0		8.2
	14.8			13.0		
	14.2			13.1		

STAN 79400 CONT EAST

D.	DIST	SOUND	ELEV	DIST	SOUND	ELEV
		13.5			13.2	
		14.0			13.2	
5	5+00	14.2	+50	13.2		
		14.6		13.2		
		14.7		13.2		
		14.9	(4.8)	13.3		
1		14.9	10:20	13.6		
+	+50	14.7	8+00	13.8		
		14.2				
		14.3				
		14.4				
		14.3				
6	6+00	14.2				
		14.0				
		14.1				
		13.6				
		13.7				
+	+50	13.6				
		13.5				
		14.0				
		13.7				
1		14.1				
7	7+00	14.2				
		13.9				
		13.5				

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STAN 78+00; 0+00 = W 14720.0						44 SOUND EAST
DIST	SOUND	ELEV	DIST	SOUND	ELEV	
0+00						13.8
						13.8
(4.6)						13.7
10:40	2.0	+2.6				13.8
	2.5	+2.1				13.6
+50	2.6	+2.0				13.5
	3.5	+1.1	3+00			13.2
	2.9	+1.7				13.1
	2.8	+1.8				13.0
	2.9	+1.7				12.8
1+00	3.0	+1.6				12.7
	5.0	0.4	+50			12.6
	9.1	4.5				12.4
	9.9	5.3				12.5
	10.0	5.4				12.2
+50	10.8	6.2				12.0
	11.5	6.9	4+00			12.0
	12.2	7.6				12.0
	12.8	8.2				12.0
	12.9	8.3	(4.6)			12.2
2+00	13.1	8.5	10:45			12.3
	13.3	8.7	+50			12.5
	13.6	9.0				13.0
	13.7					13.4

STAN 78+00 CONT EAST

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SOUND
EAST

D	DIST	SOUND	ELEV	DIST	SOUND	ELEV
		13.5			14.0	
		13.6			14.0	
5	5+00	14.1		+50	14.0	
		14.0			14.1	
		14.1			14.5	
		14.0			14.6	
		14.5			14.8	
	+50	14.2		8+00	15.2	
		14.0				
		14.5				
		14.7				
		14.2				
6	6+00	14.2				
		13.9				
		13.5				
		13.5				
		13.7				
	+50	13.8				
		13.4				
		13.2				
		13.2				
		13.3				
7	7+00	13.5				
		13.7				
		14.0				

STAN 77+00; 0+00=W 14760.0

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00				13.2	
			+50	13.3	
11+00	1.8			13.4	
(4.4)	4.0			13.2	
	4.0			13.2	
+50	4.0			13.2	
	4.0		3+00	13.3	
	4.4			13.3	
	6.5			13.3	
11.05	8.0			13.5	
1+00	8.9			13.2	
	10.4		+50	13.4	
	11.1			13.6	
	11.5			13.6	
	11.8			13.5	
+50	12.0			13.6	
	12.2		4+00	13.7	
	12.5			13.8	
	12.6			13.5	
	12.6		(4.3)	13.5	
2+00	12.7		11.10	13.6	
	13.0		+50	14.1	
	13.0			14.0	
	13.0			14.2	

STA N77+00 CONT EAST

46

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	14.1		(4.3)	14.2	
	14.5		11.15	14.6	
5+00	14.7		+50	14.5	
	14.5				
	14.7				
	14.6				
	14.2				
+50	14.1				
	14.5				
	14.2				
	14.2				
	14.5				
6+00	14.7				
	14.5				
	15.0				
	14.6				
	14.7				
+50	15.0				
	14.8				
	14.5				
	14.5				
	14.5				
7+00	15.0				
	15.5				
	15.2				

SOUNDINGS AFTER DREDGING IN
REMEDIAL AREA. CONT FROM
FIB MB111 - Page 52 - 6-5-59

STA W165+00; 0+00=N7440			Sound South	
DIST	Sound	elev	DIST	Sound elev.
0+00				13.4 9.3
9:40				13.3 9.2
(4.1)			+50	13.5 9.4 (4.0)
9:40	1.0	+3.1		13.3 9.2 10:00
	1.8	+2.3		13.3 9.2 +50
+50	2.1	+2.0	(4.1)	13.4 9.3
	2.6	+1.5	9:47	13.4 9.3
	3.0	+1.1	3+00	13.4 9.3
	3.3	+0.8		
	4.0	+0.1		
6 1+00	4.2	0.1		
	4.5	0.4		
	5.1	1.0		
(4.1)	6.0	1.9		
9:45	7.0	2.9		
+50	8.8	4.7		
	9.6	5.5		
	10.0	5.9		
	10.0	5.9		
	11.0	6.9		
7 2+00	13.6	9.5		
	13.8	9.7		
	14.0	9.9		

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See Page 55

STAN 74+00; 0+00=W16430.0			47 Sound West	
DIST	Sound	ELEV	DIST	Sound elev
0+00				13.3 9.3
			+50	13.3 9.3
				13.0 9.0
				13.0 9.0
10:00	0.2	+3.8		13.0 9.0
+50	0.4	+3.6		13.1 9.1
	1.0	+3.0	3+00	15.0 11.0
	1.2	+2.8		14.9 10.9
	1.7	+2.3		14.0 10.0
	2.1	+1.9		14.0 10.0
1700	2.7	+1.3		13.9 9.9
	3.0	+1.0	+50	13.7 9.7
	3.5	+0.5		13.5 9.5
	3.7	+0.3		13.5 9.5
	4.1	0.1		13.2 9.2
+50	4.9	0.8		13.0 9.0
	7.0	3.0	4+00	12.9 8.9
	9.1	5.1		13.5 9.5
	10.3	6.3		13.3 9.3
	11.1	7.1		13.3 9.3
2+00	13.2	9.2		13.3 9.3
	13.3	9.3	+50	13.3 9.3
	13.1	9.1		13.7 9.7
	13.2	9.2		13.3 9.3

STAN 74 +60 Cont WEST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
(4.0)	14.2	10.2		10.4	
10:05	14.2	10.2		10.3	
5+00	14.2	10.2	+50	10.7	
	14.1	10.1		10.8	
	14.1	10.1		11.0	
	14.0	10.0	(4.0)	11.5	
	14.0	10.0	10:10	12.0	
+50	14.2	10.2	8+00	12.2	
	14.3	10.3	(4/17230)		
	14.3	10.3			
	13.8	9.8			
	13.5	9.5			
6+00	13.5	9.5			
	14.0	10.0			
	13.8	9.8			
	13.9	9.9			
	13.9	9.9			
+50	13.9	9.9			
	13.9	9.9			
	14.1	10.1			
	14.1	10.1			
	9.8	5.8			
7+00	9.8	5.8			
	10.4	6.4			
	10.4	6.4			

RESPOND REMEDIAL AREA-6-5-59 48

STAN 75 +00; 0+00 = W 16.5 40 -						SOUND WEST
DIST	SOUND	ELEV	DIST	SOUND	ELEV	
0+00				11.9	7.9	
			+50	12.0	8.0	
(4.0)				13.0	9.0	
10:20	0.8	+3.2		13.5	9.5	
	1.3	+2.7	(4.0)	13.4	9.4	
+50	2.3	+1.7	10:25	13.6	9.6	
	3.2	+0.8	3+00	13.7	9.7	
	4.4	0.4		13.8	9.8	
	5.0	1.0		13.9	9.9	
	5.8	1.8		14.2	10.2	
1+00	8.0	4.0		14.2	10.2	
	9.3	5.3	+50	14.2	10.2	
	10.3	6.3		14.0	10.0	
	12.1	8.1		13.9	9.9	
	13.8	9.8		13.8	9.8	
+50	14.3	10.3		13.3	9.3	
	15.2	11.2	4+00	13.1	9.1	
	15.2	11.2		13.2	9.2	
	15.1	11.1		13.7	9.7	
	14.8	10.8		13.7	9.7	
2+00	14.2	10.2		13.6	9.6	
	12.8	8.8	+50	13.7	9.7	
	12.3	8.3		13.9	9.9	
	12.0	8.0		13.7	9.7	

STATION 75+00 CONT WEST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
(4.0)	14.0	10.0		11.8	7.8
	13.8	9.8		9.6	5.6
5+00	13.8	9.8	+50	9.6	5.6
	13.7	9.7		9.4	5.4
	13.6	9.6		9.1	5.1
	13.3	9.3	(4.0)	9.6	5.6
	13.3	9.3	10:30	9.2	5.2
+50	13.3	9.3	8+00	9.7	5.7
	13.3	9.3	(w/ 7340)		
	13.3	9.3			
	13.3	9.3			
	13.3	9.3			
6+00	13.3	9.3			
	13.5	9.5			
	13.7	9.7			
	9.2	5.2			
	9.0	5.0			
+50	10.0	6.0			
	9.0	5.0			
	8.8	4.8			
	8.2	4.2			
	8.3	4.3			
7+00	8.9	4.9			
	9.2	5.2			
	11.2	7.2			

49
Sound
West

STATION 76+00; 0+00 = W 16580-

DIST	SOUND	CLER	DIST	SOUND	ELEV.
				14.6	10.6
			+50	13.1	9.1
10:40 0+00	0.5	+3.5		13.1	9.1
	1.6	+2.4		13.2	9.2
	2.4	+1.6	(4.0)	13.5	9.5
+50	3.1	+0.9		13.6	9.6
	3.6	+0.4	10:45 3+00	13.7	9.7
	4.1	0.1		13.8	9.8
	4.6	0.6		13.9	9.9
	5.3	1.3		14.0	10.0
1+00	7.9	3.9		13.8	9.8
	9.3	5.3	+50	13.7	9.7
	11.3	7.3		13.9	9.9
	12.0	9.0		14.0	10.0
	14.1	10.1		14.9	10.9
+50	14.2	10.2		14.1	10.1
	14.8	10.8	4+00	14.2	10.2
	14.8	10.8		14.2	10.2
	14.8	10.8		14.2	10.2
	13.8	9.8		14.0	10.0
2+00	13.8	9.8		14.0	10.0
	13.6	9.6	+50	13.5	9.5
	13.5	9.5		13.4	9.4
	14.6	10.6		13.5	9.5

STAN 76+00 CONT WEST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	13.4	9.4			
	13.2	9.2			
5+00	13.4	9.4	+50		
	13.3	9.3			
	13.3	9.3			
	13.3	9.3			
+50	12.8	8.8	8+00		
	10.0	6.0			
	10.2	6.2			
	10.3	6.3			
	10.2	6.2			
6+00	9.0	5.0			
	8.2	4.2			
	8.2	4.2			
	8.3	4.3			
(3.9)	8.7	4.8			
+50	8.2	4.3			
	8.7	4.8			
	8.8	4.9			
	9.2	5.3			
	9.0	5.1			
7+00	9.0	5.1			

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50
Sound
West

STAN 83+00; 0+00=W/6520-					
DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00				14.9	
			+50	13.9	
				13.5	
11+10	0.6			13.9	
	4.5			13.9	
+50	8.9		11+15	14.1	
	10.1		3+00	14.1	
	10.5			13.9	
	10.3			13.8	
	10.5			13.8	
1+00	11.9			13.9	
	13.1		+50	13.9	
	13.5			13.8	
	13.9			13.5	
	14.0			13.6	
+50	13.7			13.5	
	13.8		4+00	13.5	
	13.9			13.5	
	14.3			13.5	
	14.6			13.5	
2+00	15.1			13.5	
	14.4		+50	13.8	
	14.4			13.8	
	14.6			13.8	

STAN 83400 Cont West

DIST SOUND ELEV

13.9
 13.8
 5400 13.7
 13.5
 13.4
 13.3
 13.3
 +50 13.3
 13.2
 13.1
 13.3
 11:17 13.3
 6400 (PIPE) 13.3

10

51 A
 SOUND
 WEST

STAN 83400; 0400 = W 16520-

DIST SOUND ELEV DIST SOUND ELEV

11:25
 0400 15.2 11.4
 +50 15.2 11.4
 15.0 11.2
 15.8 12.0
 (3.8)
 11:25 1.5 +1.3 (3.8) 15.7 11.9
 +50 3.0 +0.8 11:30 15.1 11.3
 5.9 2.1 3400 14.3 10.5
 9.1 5.3 14.2 10.4
 11.3 7.5 14.4 10.6
 11.1 7.3 14.5 10.7
 1440 11.1 7.3 14.6 10.8
 11.1 7.3 +50 14.7 10.9
 11.4 7.6 15.1 11.3
 11.9 8.1 14.1 10.3
 12.1 8.3 13.5 9.7
 +50 12.0 8.2 13.4 9.6
 15.1 11.3 4400 13.5 9.7
 15.1 11.3 13.5 9.7
 15.1 11.3 13.7 9.8
 15.7 11.9 13.9 10.1
 2400 15.8 12.0 14.0 10.2
 15.3 11.5 +50 13.9 10.1
 15.0 11.2 13.9 10.1
 15.2 11.4 13.8 10.0

STAN 83 +00 CONT WEST

DIST	Sound	ELEV	DIST	Sound	ELEV
(3.8)	13.5	9.7		13.5	9.7
	13.5	9.7			
5+00	13.4	9.6	+50		
	13.2	9.4			
	13.1	9.3			
	12.0	9.2			
	12.5	8.7			
+50	12.8	9.0	8+00		
	12.7	8.9			
	12.4	8.6			
	12.2	8.4			
	11.6	7.8			
6+00	11.2	7.4			
	11.5	7.7			
	11.5	7.7			
(3.8)	11.7	7.9			
11:35	11.7	7.9			
+50	11.7	7.9			
	11.7	7.9			
	11.8	8.0			
	12.0	8.2			
	12.5	8.7			
7+00	12.8	9.0			
	12.9	9.1			
	13.1	9.3			

STAN 82 +00; 0+00 = W 16510 -						52 A
DIST	Sound	elev	DIST	Sound	elev	Sound West
0+00				(2.6)	12.8	10.2
			+50		13.0	10.4
			(2.7)		13.0	10.4
11:35	1.0	+1.7			12.9	10.3
	5.1	2.4			12.8	10.2
+50	10.2	7.5			12.8	10.2
	11.5	8.8	3+00		12.6	10.0
	12.5	9.8			12.6	10.0
	12.6	9.9			12.2	9.6
11:40	12.6	9.9	(2.6)		12.2	9.6
1+00	12.8	10.1	11:45		12.3	9.7
	12.8	10.1	+50		12.3	9.7
	12.8	10.1			12.3	9.7
	12.8	10.1			12.3	9.7
	12.6	9.9			12.3	9.7
+50	12.4	9.7			12.1	9.5
	12.0	9.3	4+00		12.1	9.5
	12.0	9.3			12.0	9.4
	12.1	9.4			12.0	9.4
	12.2	9.5			12.1	9.5
2+00	12.2	9.5			12.5	9.9
	12.3	9.6	+50		12.3	9.7
	12.7	10.0			12.2	9.6
	12.8	10.1			12.1	9.5

STA N 82+00 cont west

DIST	Sound	elev
2.6	12.1	9.5
	12.2	9.6
5+00	12.5	9.9
	12.6	10.0
(2.6)	12.5	9.9
	12.3	9.7
1:48	12.2	9.6
+50	12.5	9.9

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53 A

Sound

STA N 81+00; 0+00 = W 16540 west

DIST	Sound	elev	DIST	Sound	elev
0+00				12.1	
2:00	0.0		+50	12.0	
(2.5)	0.5			12.0	
	1.5			12.2	
	2.5			12.4	
+50	4.6			12.4	
	6.9		3+00	12.4	
	10.8			12.3	
	12.0			12.6	
	12.0			12.0	
1+00	12.0			12.1	
	12.0		+50	11.8	
	12.0			11.5	
	11.8		(2.5)	11.8	
	12.0		2:08	12.0	
+50	12.0		W16920		
	12.0		4+00		
(2.5)	11.8				
	11.8				
2:05	12.0				
2+00	12.0				
	12.1		+50		
	12.2				
	12.0				

6-5-59

Soundings AFTER Dredge Remedial Area

SOUND

WEST

STAN 80700; 0+00=W16580-

DIST	Sound	ELEV	DIST	Sound	elev.
0+00				12.6	10.1
2:15	0.2	+2.3	+50	12.8	10.3
(2.5)	1.2	+1.3		12.6	10.1
	1.8	+0.7		12.5	10.0
	3.5	1.0		12.5	10.0
+50	4.0	1.5		12.2	9.7
	8.2	5.7	3+00	12.1	9.6
	11.5	9.0		12.0	9.5
	11.5	9.0	(2.5)	12.2	9.7
	11.8	9.3	2:23	12.1	9.6
1+00	11.5	9.0	W16910 Pipe		
	11.8	9.3	+50		
(2.5)	11.8	9.3			
	12.0	9.5			
2:20	11.8	9.3			
+50	11.8	9.3			
	11.8	9.3	4+00		
	12.0	9.5			
	12.1	9.6			
	12.2	9.7			
2+00	12.3	9.8			
	12.6	10.1			
	12.8	10.3			
	12.6	10.1			

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54 A

SOUND

WEST

STAN 79700; 0+00=W16630-

DIST	Sound	ELEV	DIST	Sound	ELEV
0+00					
2:30	1.0		+50		
(2.4)	1.2				
	1.5				
	4.3				
+50	6.8				
	11.0		3+00		
	11.5				
	11.1				
	11.6				
1+00	11.7				
	11.8		+50		
	12.0				
(2.4)	12.0				
2:35	12.2				
+50	12.2				
	12.3				
	12.4				
	12.3				
	12.1				
2+00	12.5				
W16840	12.8				

Resounding 6-8-59 Remedial area Sound

STAN 75700		0700 = W		16550 - WEST	
DIST	Sound elev	DIST	Sound elev	DIST	Sound elev
0700			12.2		
10:40	1.1	+50	13.5		
(3.8)	2.0		13.5		
	3.1		13.5		
	3.6		13.5		
+50	4.1		13.7		
	4.8	3+00	14.0		
	5.4		14.2		
	7.8		14.0		
	9.1		14.0		
1700	10.3		14.0		
	12.0	+50	14.0		
	13.6		14.0		
(3.8)	14.0		13.3		
10:45	15.0	(3.9)	13.0		
+50	15.1	10:50	13.2		
	15.0	4700	13.5		
	14.9		13.6		
	14.0		13.8		
	12.7		13.8		
2700	12.1		14.0		
	12.2	+50	13.8		
	12.0		14.0		
	12.1		13.7		

STAN 75700 CONT WEST 56 A

DIST	Sound elev	DIST	Sound elev
	14.0		
	13.8		
5700	13.7		
	13.3		
	13.4		
	13.4		
	15.0		
+50	15.0		
	15.0		
	14.4		
	13.6		
	13.7		
6700	13.6		
	13.6		
	13.4		
	13.3		
	13.3		
+50	13.2		
	13.2		
	13.1		
	13.1		
	13.0		
7700	12.8		
(17250)			

6-8-59

Sound
WEST

STAN 76+00; 0+00=W/16590

DIST	SOUND	ELEV	DIST	SOUND	elev
0+00				13.2	
11:00	0.6		+50	13.3	
(3.9)	1.7			13.6	
	2.2			13.8	
	3.1			13.8	
+50	3.6			13.8	
	4.0		3+00	13.8	
	4.9			13.8	
(4.0)	5.8			13.8	
11:05	7.9			13.1	
1+00	10.7			14.0	
	13.5		+50	14.0	
	13.5			14.0	
	14.2			14.0	
	15.0			13.8	
+50	15.0			13.6	
	14.8		4+00	13.8	
	13.8			13.7	
	12.0			13.6	
	12.6		(4.1)	13.6	
2+00	13.3		11:10	13.5	
	13.3		+50	13.2	
	13.1			13.2	
	13.1			13.2	

STAN 76+00 CONT WEST 56-A

DIST	SOUND	elev	DIST	SOUND	ELEV
		13.2			
		13.3			
5+00	13.3	9.2			
	13.4	9.3			
	14.2	10.1			
	14.7	10.6			
	15.2	11.1			
+50	15.1	11.0			
	15.0	10.9			
	14.0	9.9			
	13.7	9.6			
	13.2	9.1			
6+00	13.0	8.8			
	13.8	9.7			
	13.3	9.2			
	12.3	8.2			
	12.1	8.0			
+50	12.2	8.1			
	12.5	8.4			
	12.8	8.7			
(4.1)	12.9	8.8			
11:15	12.9	8.8			
7+00	13.0	8.9			
W17290-1					

6-8-59

Sound

STAN 77+00 cont WEST 57

STAN 77+00; 0+00 = W 16600-			WEST		
DIST	Sound	FLEV	DIST	Sound	FLEV
0+00				13.8	
(4.1)			+50	14.0	
11:20	0.8			14.8	
	1.7			14.5	
	2.6			14.4	
+50	3.0			14.0	
	3.3		3+00	14.6	
	3.9			14.4	
	4.0			14.0	
	6.2			13.8	
1+00	8.1			13.9	
	9.9		+50	14.0	
	11.1			14.0	
	11.8			14.0	
	12.7			14.0	
+50	12.7			13.8	
	12.4		4+00	13.8	
	13.9			13.6	
	14.0			13.5	
	13.9			13.3	
2+00	14.3			13.5	
	14.9		+50	13.5	
	14.8			13.5	
	14.1			13.6	

DIST	Sound	elev	DIST	Sound	elev.
(4.1)	13.4			13.2	
11:25	13.7			13.1	
5+00	13.8		+50	13.1	
	14.2			13.1	
	15.4			13.1	
	15.2		(4.2)	13.3	
	17.0		11:30	13.3	
+50	13.8		8+00	13.4	
	13.4			13.5	
	13.6			13.8	
	13.4			13.4	
	13.3			12.4	
6+00	13.1		+50	12.5	
	12.8			12.2	
	12.7			12.1	
	12.8			12.2	
	12.9			12.2	
+50	13.2		9+00	12.2	
	13.3			12.2	
	13.4			12.2	
	13.4			12.3	
	13.8			12.4	
7+00	13.7		+50	12.4	
	13.8			12.5	
	13.3		W17570	12.5	

6-8-57

Sound

STAN 78+00 cont West

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STAN 78+00; 0+00=W			16600 West		DIST		Sound elev		DIST		Sound elev.	
DIST	Sound	elev	DIST	Sound	elev							
0+00				14.8	10.6		14.7	10.5		15.0	10.8	
			+50	14.2	10.0	5+00	14.1	9.9	+50	14.9	10.7	
(4.2)				14.0	9.8		14.0	9.8		14.9	10.7	
11:35	1.2	+3.0		14.1	9.9		12.9	8.7		14.3	10.1	
	1.3	+2.9		14.2	10.0		16.6	12.4		14.8	10.6	
+50	2.1	+2.1		14.0	9.8		15.8	11.6		14.7	10.5	
	2.7	+1.5	3+00	13.9	9.7	+50	15.8	11.6	8+00	14.9	10.7	
	3.1	+1.1		15.4	11.2		15.4	11.2		15.3	11.1	
	3.5	+0.7		15.3	11.1		15.3	11.1		15.5	11.3	
	4.2	0.0		15.2	11.0	(4.2)	15.0	10.8		15.3	11.1	
1+00	6.4	2.2		15.5	11.3	11:45	14.7	10.5		15.0	10.8	
	7.8	3.6	+50	15.7	11.5	6+00	14.4	10.2	+50	15.0	10.8	
	10.8	6.6		15.5	11.3		14.1	9.9		14.8	10.6	
(4.2)	13.4	9.2		15.3	11.1		14.0	9.8		14.9	10.7	
11:40	13.7	9.5		15.3	11.1	(4.2)	13.7	9.5		14.9	10.7	
+50	14.2	10.0		15.1	10.9	11:46	13.3	9.1		14.2	10.0	
	14.0	9.8	4+00	15.1	10.9	+50	13.2	9.0	9+00	14.1	9.9	
	14.2	10.0		15.0	10.8	11:50	13.8	9.6		14.0	9.8	
	14.2	10.0		15.1	10.9	(4.2)	14.0	9.8		14.0	9.8	
	14.3	10.1		15.0	10.8		14.0	9.8		13.9	9.7	
2+00	13.5	9.3		15.0	10.8		14.1	9.9	(4.2)	13.9	9.7	
	13.8	9.6	+50	15.2	11.0	7+00	14.1	9.9	+50	13.8	9.6	
	14.5	10.3		15.2	11.0		14.8	10.6		13.4	9.2	
	14.8	10.6		15.2	11.0		15.0	10.8	W17570	13.1	8.9	

Resounding in Remedial Dredging
 Section Ely of Ventura Bridge 6-8-59

STA N 64+00; 0+00 = W 16600 - Sound West

DIST	Sound	elev	DIST	Sound	elev
0+00	13.0	9.5	(35)	16.5	13.0
(35)	13.0	9.5	+50	17.0	13.5
2:10	12.9	9.4		17.0	13.5
~	12.8	9.3		17.3	13.8
	12.1	8.6		17.5	14.0
+50	12.3	8.8		17.2	13.7
	12.4	8.9	3+00	17.0	13.5
	13.0	9.5		17.2	13.5
	13.8	10.3		17.2	13.5
	15.1	11.6		17.9	14.4
1+00	15.2	11.7		18.1	14.6
	14.9	11.4	+50	18.3	14.8
	15.1	11.6		19.4	15.9
	15.2	11.7		18.9	15.4
	15.3	11.8		20.0	16.5
+50	15.4	11.9		19.1	15.6
	16.0	12.5	4+00	20.9	17.4
	16.1	12.6		20.7	17.2
	16.1	12.6	2:15	20.0	16.5
	16.0	12.5	~	18.7	15.2
2+00	16.4	12.9		19.0	15.5
	16.5	13.0	+50	19.0	15.5
	16.8	13.3		19.1	15.6
	16.0	12.5		19.9	16.4

N 64+00 - WEST

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DIST	Sound	Elev
(34)	19.9	16.5
	20.2	16.8
5+00	20.7	17.3
	21.0	17.6
	21.1	17.7
	21.3	17.9
	21.0	17.6
50	21.1	17.7
	22.8	19.4
	23.0	19.6
	22.6	19.2
	23.0	19.6
6+00	23.2	19.8
	23.4	20.0
	24.1	20.7
	24.4	21.0
	24.6	21.2
50	24.9	21.5
	24.9	21.5
2:18	24.5	21.1
~	23.0	19.6
	23.4	20.0
7+00		

6-8-59

STA. N. 65+00; 0+00 = N. 16600; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	14.3	10.9	(34)	15.9	12.5
(34)	14.6	11.2	50	16.0	12.6
<u>223</u>	14.4	11.0	<u>225</u>	16.2	12.8
<u> </u>	15.0	11.6	<u> </u>	17.4	14.0
	14.3	10.9		17.4	14.0
50	14.0	10.6		17.9	14.5
	13.7	10.3	3+00	17.8	14.4
	13.5	10.1		17.8	14.4
	13.3	9.9		17.3	13.9
	14.2	10.8		17.6	14.2
1+00	13.7	10.3		17.7	14.3
	13.3	9.9	50	17.8	14.4
	13.9	10.5		18.0	14.6
	14.1	10.7		18.2	14.8
	14.2	10.8		18.2	14.8
50	14.4	11.0		18.4	15.0
	14.5	11.1	4+00	18.4	15.0
	14.6	11.2		18.6	15.2
	15.0	11.6		18.4	15.0
	14.8	11.4		18.5	15.1
2+00	15.1	11.7		18.3	14.9
	15.0	11.6	50	18.2	14.8
	15.4	12.0		18.0	14.6
	15.4	12.0		17.9	14.5

N. 65+00 - WEST

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Dist	Sound	Elev	Dist	Sound	Elev
(34)	18.2	14.8	(34)	23.7	20.3
	18.0	14.6		24.2	20.8
5+00	18.0	14.6	50	25.3	21.9
	18.0	14.6		25.9	22.5
	18.1	14.7		21.9	18.5
	18.1	14.7		21.2	17.8
	18.0	14.6		19.6	16.2
50	18.3	14.9	8+00	19.9	16.5
	18.3	14.9			
	18.6	15.2			
	22.2	18.8			
	23.2	19.8			
6+00	23.7	20.3			
	22.7	19.3			
	23.3	19.9			
	23.7	20.3			
	23.9	20.5			
50	23.8	20.4			
<u>230</u>	23.4	20.0			
<u> </u>	23.4	20.0			
	23.6	20.2			
	24.1	20.7			
7+00	24.0	20.6			
	24.0	20.6			
	23.7	20.3			

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STA. N. 72+00; 0+00=W17450; SOUND EAST			SOUND EAST		
Dist	Sound	Elev	Dist	Sound	Elev
0+00			(32)	15.9	12.7
(32)			50	15.9	12.7
<u>3:13</u>				15.9	12.7
	0.9	+2.3		15.5	12.3
	1.3	+1.9		15.4	12.2
50	1.4	+1.8		15.0	11.8
	2.0	+1.2	3+00	14.7	11.5
	2.0	+1.2		14.8	11.6
	2.3	+0.9		13.1	9.9
	2.4	+0.8		12.7	9.5
1+00	2.8	+0.4		12.0	8.8
	3.1	+0.1	50	11.9	8.7
	5.1	1.9		11.8	8.6
	6.7	2.5		12.1	8.9
	8.5	5.3		12.2	9.0
50	10.3	7.1		12.3	9.1
	11.9	8.7	4+00	12.3	9.1
	13.2	10.0		12.6	9.4
	14.0	10.8		12.5	9.3
	14.8	11.6		12.4	9.2
2+00	15.2	12.0		12.1	8.9
	15.0	11.8	50	11.7	8.5
	15.0	11.8		11.3	8.1
	15.6	12.4		10.9	7.7

N. 72+00 - EAST

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Dist	Sound	Elev	Dist	Sound	Elev
(32)	10.7	7.5	(32)	11.9	8.7
	11.0	7.8		12.3	9.1
5+00	11.2	8.0	50	12.0	8.8
	12.2	9.0		12.0	8.8
	12.8	9.6		12.0	8.8
	12.7	9.5		11.8	8.6
	12.3	9.1		11.9	8.7
50	12.0	8.8	8+00	12.0	8.8
	11.3	8.1		12.0	8.8
	10.9	7.7		11.8	8.6
	10.3	7.1		12.0	8.8
3+00	10.7	7.5		12.0	8.8
6+00	11.2	8.0	50	12.0	8.8
	11.2	8.0			
	11.0	7.8			
	10.8	7.6			
	10.9	7.7			
50	10.6	7.3			
	11.1	7.9			
	11.9	8.7			
	12.1	8.9			
	12.0	8.8			
7+00	12.2	9.0			
	12.2	9.0			
	11.9	8.7			

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REMEDIAL AREA.

STA. N. 73+00; 0+00=W. 17450; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00				13.9	11.3
9:25	0.0	+2.6	50	14.0	11.4
(2.6)	0.4	+2.2		13.8	11.2
	1.0	+1.6		13.7	11.1
	2.3	+0.3	(2.6)	13.4	10.8
50	5.0	2.4	9:30	13.3	10.7
	6.9	4.3	3+00	13.3	10.7
	8.6	6.0		13.2	10.6
	10.3	7.7		13.2	10.6
	11.4	8.8		13.3	10.7
1+00	12.6	10.6		13.3	10.7
	13.5	10.9	50	13.7	11.1
	13.8	11.2		14.2	11.6
	14.1	11.5		14.0	11.4
	14.3	11.7		11.2	8.6
50	14.4	11.8		11.3	8.7
	14.3	11.7	4+00	11.3	8.7
	14.0	11.4		11.9	9.3
	14.6	12.0		12.0	9.4
	14.4	11.8		11.9	9.3
2+00	14.7	12.1		12.0	9.4
	14.3	11.7	50	12.0	9.4
	13.4	10.8		10.9	8.3
	13.9	11.3		11.1	8.5

N. 73+00 - EAST

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Dist	Sound	Elev	Dist	Sound	Elev
	11.0	8.4	(2.7)	11.3	8.6
	10.8	8.2		12.5	9.8
5+00	10.3	7.7	50	13.0	10.3
	10.4	7.8		13.2	10.5
	10.7	8.1		13.0	10.3
	10.3	7.7		12.8	10.1
	10.3	7.7		12.3	9.6
50	10.1	7.5	8+00	11.8	9.1
	10.0	7.4		12.0	9.3
	10.2	7.6		12.0	9.3
	10.4	7.8	(2.7)	12.2	9.5
	10.4	7.8	9:38	12.6	9.9
6+00	10.4	7.8	50	9.4	6.7
	10.7	8.1			
	10.3	7.7			
(2.7)	10.5	7.8			
9:35	10.5	7.8			
50	10.6	7.9	9+00		
	10.6	7.9			
	10.9	8.2			
	11.1	8.4			
	11.1	8.4			
7+00	11.0	8.3	50		
	10.8	8.1			
	10.5	7.8			

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STAN 73+00; 0+00=W 17740.-

Sound
West

DIST	Sound	elev	DIST	Sound	elev
0+00			(2.8)	4.0	1.2
9:45	0.1	+2.6	+50	3.0	0.2
(2.7)	1.3	+1.4		2.5	+0.3
	4.3	+1.6		2.1	+0.7
	5.0	2.3	(2.8)	1.9	+0.9
+50	6.0	3.3	9:53	1.5	+1.3
	10.0	7.3	3+00	0.5	+2.3
	12.8	10.1		0.1	+2.7
	13.0	10.3			
	13.0	10.3			
1+00	13.0	10.3			
	13.0	10.3	50		
	13.3	10.6			
	13.0	10.3			
	13.0	10.3			
+50	12.7	10.0			
	12.6	9.9	4+00		
	12.5	9.8			
(2.8)	12.5	9.7			
9:50	12.5	9.7			
2+00	11.2	8.4			
	12.3	9.5			
	8.7	5.9			
	8.2	5.4			

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STAN 74+00; 0+00=W 18180.-

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Sound
EAST

DIST	Sound	ELEV	DIST	Sound	elev.
0+00			(3.1)	13.0	9.9
10:15	0.0	+3.1	+50	13.0	9.9
(3.1)	0.6	+2.5		12.3	9.2
	1.2	+1.9		12.2	9.1
	1.8	+1.3		13.0	9.9
+50	2.0	+1.1		12.2	9.1
	2.4	+0.7	3+00	12.2	9.1
	2.9	+0.2		12.8	9.7
	4.0	0.9		12.5	9.4
	6.1	3.0		12.4	9.3
1+00	8.1	5.0		12.8	9.7
	9.1	6.0	+50	13.4	10.3
	10.0	6.9		13.1	10.0
	10.3	7.2		13.2	10.1
	11.2	8.1		13.0	9.9
+50	11.6	8.5		13.2	10.1
	12.0	8.9	4+00	13.2	10.1
	12.4	9.3		13.2	10.1
	12.4	9.3		13.9	10.8
	12.6	9.5	(3.2)	14.2	11.0
2+00	12.7	9.7	10:20	14.4	11.2
	12.8	9.8	+50	13.9	10.7
	13.0	9.1		10.0	6.8
	13.1	10.0		9.7	6.5

STAN 74+00 COAST EAST

STAN 74+00 COAST EAST 64

DIST	Sound	elev	DIST	Sound	elev
(3.2)	9.2	6.0	13.4	10.2	
	8.1	4.9	14.3	11.1	
5+00	6.9	3.7	+50	15.3	12.1
	6.1	2.9		16.0	12.8
	4.9	1.7		16.0	12.8
	4.0	0.8	(3.2)	16.0	12.8
	3.7	0.5	10:25	16.0	12.8
+50	3.4	0.2	8+00	15.9	12.7
	3.4	0.2		15.9	12.7
	3.3	0.1		15.4	12.2
	3.3	0.1		15.3	12.1
	3.4	0.2		14.4	11.2
6+00	3.7	0.5	+50	14.0	10.8
	3.7	0.5		13.4	10.2
	3.9	0.7		13.8	10.6
	4.0	0.8		13.9	10.7
	4.0	0.8		14.0	10.8
+50	4.0	0.8	9+00	14.0	10.8
	4.6	1.4		13.9	10.7
	4.6	1.4		13.9	10.7
	6.5	3.3		13.9	10.7
	8.7	5.5		13.4	10.2
7+00	9.6	6.4	+50	13.4	10.2
	11.3	8.1		13.2	10.0
	12.0	8.8		13.3	10.1

DIST	Sound	ELEV
	13.3	10.1
(3.3)	13.4	10.1
10+00	13.3	10.0
	13.3	10.0
	13.1	9.8
	13.2	9.9
10:30	13.3	10.0
+50	13.8	10.5

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STAN 75400; 0400 = W 182 80 -			Sound EAST		
DIST	Sound	ELEV	DIST	Sound	elev
0400				11.2	7.8
			+50	11.4	8.0
10:40	1.0	+2.4		11.9	8.5
(3.4)	2.2	+1.2		11.7	8.3
	3.1	+0.3		11.5	8.1
+50	5.1	1.7		11.2	7.8
	6.9	3.5	3+00	11.1	7.7
	10.2	6.8		11.2	7.8
	12.0	8.6		11.0	7.6
	13.7	10.3		10.9	7.5
1400	13.8	10.4		11.1	7.7
	13.5	10.1	+50	11.0	7.6
	9.9	6.5		10.8	7.4
	12.3	8.9		10.8	7.4
	12.9	9.5	(3.5)	10.7	7.2
+50	9.8	6.4	10:45	10.7	7.2
	10.3	6.9	4400	10.8	7.3
	10.6	7.2		10.8	7.3
	10.7	7.3		10.7	7.2
	11.0	7.6		11.3	7.8
2+00	11.0	7.6		12.0	8.5
	11.4	8.0	+50	12.3	8.8
	11.1	7.7		12.8	9.3
	11.2	7.8		12.7	9.2

STAN 75400 Cont EAST 85

DIST	Sound	elev	DIST	Sound	elev
(3.5)	12.3	8.8		12.2	8.7
	12.2	8.7		12.5	9.0
5+00	12.0	8.5	+50	12.4	8.9
	12.2	8.7		12.4	8.9
	12.1	8.6		13.0	9.5
	13.0	9.5	(3.6)	13.0	9.4
	12.0	8.5	10:50	13.8	10.2
+50	12.0	8.5	8+00	12.7	9.1
	12.0	8.5		12.4	8.8
	11.8	7.3		12.3	8.7
	11.3	7.8		12.0	8.4
	12.1	8.6		11.5	7.9
6+00	12.2	8.7	+50	12.2	8.6
	10.9	7.4		13.0	9.4
	11.1	7.6		12.7	9.1
	11.3	7.8		13.0	9.4
	11.9	8.4		12.8	9.2
+50	12.0	8.5	9+00	12.9	9.3
	12.0	8.5		12.9	9.3
	12.0	8.5		12.8	9.2
	12.2	8.7		12.5	8.9
	12.1	8.6		12.2	8.6
7+00	12.1	8.6	+50	12.8	9.2
	12.2	8.7		12.8	9.2
	12.2	8.7		12.7	9.3

STAN 75 +00 EAST EAST

DIST	SOUND	ELEV
3.6	12.9	9.3
	13.0	9.4
10+00	13.1	9.5
	13.0	9.4
	13.0	9.4
(3.6)	12.3	8.7
10:53	12.2	8.6
+50	12.5	8.9

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STAN 76 +00; 0+00 = W 18310 EAST

DIST	SOUND	ELEV	DIST	SOUND	ELEV.
0+00				13.1	9.4
			+50	13.5	9.8
				13.6	9.9
11:00	0.4	+3.3		13.3	9.6
(3.7)	1.2	+2.5	(3.8)	13.6	9.9
+50	6.4	2.7	11:05	13.7	9.9
	9.9	5.2	3+00	13.4	9.6
	10.9	6.2		13.1	9.3
	10.9	6.2		13.0	9.2
	12.2	8.5		12.1	8.3
1+00	12.0	8.3		13.0	9.2
	11.9	8.2	+50	12.7	8.9
	11.4	7.7		13.1	9.3
	11.8	8.1		11.4	7.6
	12.2	8.5		12.1	8.3
+50	12.5	8.8		12.6	8.8
	12.4	8.7	4+00	12.1	8.3
	12.4	8.7		11.2	7.4
	12.2	8.5		11.3	7.5
	12.8	9.1		11.2	7.4
2+00	12.9	9.2		12.0	8.2
	12.8	9.1	+50	12.6	8.8
	13.0	9.3		12.9	9.1
	13.0	9.3		12.8	9.0

STA N76+00 CONT EAST

STA N76+00 CONT EAST 67

DIST	Sound	elev	DIST	Sound	elev
	12.1	8.3		12.9	9.1
	12.6	8.8		12.9	9.1
5+00	12.0	8.2	+50	12.7	8.9
	12.5	8.7		12.6	8.8
	12.7	8.9		12.7	8.9
	12.2	8.4	(3.8)	13.0	9.2
	12.4	8.6	11/10	12.9	9.1
+50	12.6	8.8	8+00	12.8	9.0
	12.4	8.6		12.5	8.7
	12.4	8.6		12.5	8.7
	13.2	9.4		12.2	8.4
	12.5	8.7		12.4	8.6
6+00	13.1	9.3	+50	12.3	8.5
	13.0	9.2		12.4	8.6
	13.0	9.2		12.1	8.3
	12.8	9.0		13.0	9.2
	12.8	9.0		13.2	9.4
+50	12.7	8.9	9+00	13.1	9.3
	12.6	8.8		13.1	9.3
	13.0	9.2		13.0	9.2
	13.0	9.2		13.0	9.2
	13.0	9.2		13.0	9.2
7+00	12.5	8.7	+50	13.0	9.2
	12.8	9.0		12.8	9.0
	12.9	9.1		13.0	9.2

DIST	SOUND	ELEV
	13.0	9.2
	13.0	9.2
10+00	12.9	9.1
	13.1	9.3
	13.2	9.4
(3.8)	13.3	9.5
11/12	13.2	9.4
+50	13.1	9.3

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STAN 77400; 0400=W/8250-			Sound EAST		
DIST	SOUND	ELEV	DIST	SOUND	ELEV
0400				13.1	
(3.9)			+50	13.2	
11.20	0.4			13.2	
	1.6			13.3	
	3.1			13.8	
+50	7.2			13.8	
	9.3		3+00	13.8	
	10.1			13.8	
	10.9			13.7	
	11.1			13.7	
1400	11.3			13.7	
	11.7		+50	13.6	
	11.9			13.8	
	12.1			13.9	
	12.1			14.0	
+50	12.2			13.9	
	12.2		4+00	13.8	
	12.5			13.7	
	12.5			13.7	
	12.6			14.5	
2+00	12.7			14.4	
	13.0		+50	14.3	
	13.3			14.2	
	13.0			14.0	

STAN 77400 CONT EAST

68

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	13.6				
	13.6				
5+00	14.0		+50		
	14.0				
	13.6				
(3.9)	12.9				
11.25	13.0				
+50	13.1		8+00		
	13.0				
	13.0				
	13.0				
	12.9				
6+00	12.7		+50		
	12.8				
	13.0				
	13.0				
	13.1				
+50	13.2		9+00		
	12.9				
	12.7				
	12.4				
	12.5				
7+00	12.9		+50		

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STAN 78400 CONT EAST 69

STAN 78400, 0+00 = W 18170			SOUND EAST			DIST SOUND ELEV		
DIST	SOUND	ELEV	DIST	SOUND	ELEV	DIST	SOUND	ELEV
							13.8	9.8
0+00				14.0	10.0		13.5	9.5
11:30	0.3	+3.6	+50	13.9	9.9	5+00	13.8	9.8
(3.9)	1.5	+2.4		13.6	9.6		14.2	10.2
	4.3	0.4		13.6	9.6		14.5	10.5
	7.9	4.0		13.4	9.4		13.1	9.1
+50	9.6	5.7		13.5	9.5		13.6	9.6
	10.2	6.3	3+00	13.5	9.5	+50	13.9	9.9
	10.9	7.0		13.6	9.6		13.7	9.7
	10.9	7.0		13.4	9.4		13.5	9.5
	11.0	7.1		13.2	9.2		13.3	9.3
1+00	12.1	8.2		13.3	9.3	(4.0)	13.3	9.3
	12.2	8.3	+50	13.7	9.7	6+00	13.2	9.2
	12.5	8.6		14.0	10.0		13.2	9.2
	12.8	8.9		13.2	9.2		13.1	9.6
	13.0	9.1		13.7	9.7		1	
+50	13.0	9.1		14.2	10.2			
	13.1	9.2	4+00	14.2	10.2	+50		
(4.0)	13.1	9.2		13.5	9.5			
	13.2	9.3		14.0	10.0			
11:35	13.2	9.2		13.7	9.7			
2+00	13.3	9.3		13.9	9.9			
	13.6	9.6	+50	14.1	10.1	7+00		
	13.9	9.9		13.7	9.7			
	14.0	10.0		14.1	10.1			

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STAN 79400; 0700 = W 18110 - EAST			Sound EAST		
DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00				14.0	
			+50	14.1	
1:10	0.8			14.0	
(4.2)	2.8			14.1	
	7.5			14.2	
+50	10.3			14.1	
	11.3		3+00	14.0	
	11.3			14.4	
	11.4			14.1	
	13.0		(4.2)	14.0	
1+00	12.8		1:15	14.0	
	13.6		+50	14.0	
	13.7			14.0	
	13.7			14.1	
	13.5			14.5	
+50	13.0			14.8	
	13.3		4+00	14.8	
	12.9			14.3	
	12.9			14.1	
	13.1			14.3	
2+00	13.3			14.0	
	13.8		+50	13.5	
	13.8			13.4	
	13.8			13.4	

STAN 79400 CONT EAST 70

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	13.3			12.9	
	13.2			12.9	
5+00	13.1		+50	13.0	
	12.5			13.0	
	12.5			13.1	
	13.0			13.0	
	12.8			13.0	
+50	12.9		8+00	12.8	
	12.6			12.8	
	13.0			12.6	
	12.8			12.5	
	12.9			12.4	
6+00	12.9		+50	12.3	
	12.8			12.3	
	12.7			12.7	
	12.7			12.7	
	12.8			12.8	
+50	13.0		9+00	13.0	
	12.9			13.4	
	13.3			13.2	
	13.8		(4.2)	13.2	
	13.5		1:20	13.4	
7+00	13.3		+50	13.3	
	13.2			12.4	
	13.1			13.0	

STAN 7900 CONT EAST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	13.4			14.1	
	13.8			14.3	
10+00	14.0	+50		14.3	
	14.1			14.4	
	14.1			14.6	
	14.2	(4.2)		14.4	
	14.3	11.25		14.5	
+50	14.3	13+00		14.3	
	14.3				
	14.9				
	14.8				
	14.0				
11+00	14.8				
	14.8				
	14.8				
	14.6				
	14.5				
+50	14.5				
	14.4				
	14.3				
	14.0				
	14.0				
12+00	13.8				
	13.8				
	14.1				

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STAN	80+00	0+00 =	W 18060 -	SOUND	ELEV
DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00				14.0	9.8
1:30	0.3	+3.9	+50	14.0	9.8
(4.2)	1.5	+2.7		14.0	9.8
	2.8	+1.4		14.1	9.9
	4.0	+0.2		14.2	10.0
+50	8.2	4.0		14.2	10.0
	10.0	5.8	3+00	14.5	10.3
	11.3	7.1		14.8	10.6
	11.0	6.8		14.8	10.6
	11.3	7.1		14.5	10.3
1+00	12.2	8.0		14.4	10.2
	12.6	8.4	+50	14.7	10.5
	12.8	8.6		14.8	10.6
	12.9	8.7		14.1	9.9
	13.1	8.9		13.8	9.6
+50	13.2	9.0		13.4	9.2
	13.2	9.0	4+00	13.3	9.1
	13.7	9.5		13.3	9.1
	13.8	9.6		13.0	8.8
	13.9	9.7		13.0	8.8
2+00	13.9	9.7		12.9	8.7
	13.9	9.7	+50	12.8	8.6
	14.0	9.8		12.8	8.6
	14.0	9.8		12.2	8.0

STAN 80+00 CONT EAST

DIST	Sound	ELEV	DIST	Sound	ELEV
4.1	12.2	8.1		13.3	9.2
1:35	12.3	8.2		13.3	9.2
5+00	12.8	8.7	+50	13.0	8.9
	12.4	8.3		13.0	8.9
	12.5	8.4		13.0	8.9
	12.5	8.4		12.8	8.7
	12.5	8.4		12.7	8.6
+50	12.6	8.5	8+00	12.8	8.7
	12.6	8.5		12.8	8.7
	12.7	8.6		12.9	8.8
	12.9	8.8		12.7	8.6
	13.1	9.0		12.5	8.4
6+00	13.4	9.3	+50	12.5	8.4
	13.2	9.1		12.6	8.5
	13.4	9.3		12.9	8.8
	13.3	9.2		13.0	8.9
	13.3	9.2		13.1	9.0
+50	13.2	9.1	9+00	13.3	9.2
	13.1	9.0		13.8	9.7
	13.0	8.9		14.0	9.9
	13.0	8.9		13.7	9.6
	12.1	9.0		13.2	9.1
7+00	13.2	9.1	+50	13.2	9.1
	13.1	9.0		13.3	9.2
	13.2	9.1		13.8	9.7

STAN 80+00 CONT EAST

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DIST	Sound	ELEV
4.1	14.0	9.9
1:40	14.0	9.9
10+00	14.0	9.9
	14.1	10.0
	14.0	9.9
	14.1	10.0
	14.1	10.0
+50	14.3	10.2
	14.2	10.1
	14.5	10.3
	14.8	10.7
	14.7	10.6
11+00	14.3	10.2
	14.3	10.4
	14.5	10.4
	14.6	10.5
	14.7	10.6
+50	13.9	9.8
	13.8	9.7
	13.8	9.7
	13.7	9.6
1:42	13.9	9.8
12+00	13.9	9.8

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SOUND

STAN 81400 CONT EAST

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STAN 81400; 0400=W / 8030-EAST

DIST	SOUND	FLEV	DIST	SOUND	FLEV
0400	0			12.0	
1:50	0.0		+50	12.8	
(4.1)	1.0			12.9	
	1.9			13.0	
	2.6			13.1	
+50	3.0			13.0	
	3.8		3400	13.2	
	5.2			13.3	
	7.3			14.6	
	8.4			15.2	
1400	14.0			15.1	
	14.0		+50	15.0	
	13.7			15.0	
	13.2			14.5	
	13.5		(4.0)	14.0	
+50	13.3		1:55	14.0	
	13.0		4400	13.8	
	13.0			13.8	
	12.9			13.8	
	12.7			13.4	
2400	12.4			13.5	
	12.5		+50	13.2	
	12.8			13.2	
	12.2			13.2	

DIST	SOUND	FLEV	DIST	SOUND	elev
	13.1			14.1	
	13.1			13.9	
5400	13.1		+50	13.7	
	13.3			13.8	
	13.5			13.8	
	13.4			14.0	
	13.3			13.7	
+50	13.7		8400	13.4	
	14.0			12.9	
	13.9			12.5	
	13.9			12.0	
	13.8			11.9	
6400	13.8		+50	12.2	
	13.3			12.7	
	13.8			12.5	
	13.9			13.0	
	13.9			13.3	
+50	14.0		9400	13.7	
	14.0			14.0	
(4.0)	13.8			13.9	
	13.9		(3.9)	14.0	
2:00	14.1		2:05	13.9	
7400	14.2		+50	13.5	
	14.2			13.4	
	14.1			13.6	

STAN 81+00 CONT EAST

DIST Sound elev

	13.9
	14.0
10+00	14.0
	14.1
	14.1
	14.2
	14.2
+50	14.2
	14.5
	14.1
	14.3
	14.3
11+00	14.1
	14.0
	14.1
(3.9)	14.2
2:07	14.1
+50	14.0

Remedial area ^{6.9-59}

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SOUND
EAST

STAN 82+00; 0+00=W/8000

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00				12.9	9.0
2:15	0.5	+3.4	+50	12.6	8.7
(3.9)	1.3	+2.6		12.8	8.9
	2.4	+1.5		13.2	9.3
	3.2	+0.7		14.8	10.9
+50	8.0	4.1		14.2	10.3
	12.0	8.1	3+00	14.1	10.2
	14.0	10.1		14.0	10.1
	13.3	9.4		14.0	10.1
	13.3	9.4		14.0	10.1
1+00	13.5	9.6		13.9	10.0
	13.5	9.6	+50	13.8	9.9
	13.4	9.5		13.8	9.9
	13.4	9.5		13.7	9.8
	13.1	9.2		13.7	9.8
+50	13.0	9.1		13.7	9.8
	12.5	8.6	4+00	13.7	9.8
	13.1	9.2		13.6	9.7
	13.0	9.1		13.7	9.8
	12.3	8.4		14.1	10.2
2+00	12.7	8.8		14.2	10.3
	12.9	9.0	+50	13.6	9.7
	12.8	8.9		14.0	10.1
	12.7	8.8		14.0	10.1

Remedial area

STAN 82 +00 CONT EAST

DIST	Sound	elev	DIST	Sound	elev
	14.0	10.1		14.2	10.4
	14.1	10.2		14.0	10.2
5+00	14.2	10.3	+50	13.8	10.0
	14.1	10.2		13.7	9.9
	14.4	10.5		13.0	9.2
	14.2	10.3		12.6	8.8
	14.2	10.3		12.1	8.3
+50	14.2	10.3	8+00	11.8	8.0
	14.2	10.3		12.0	8.2
(3.8)	14.2	10.3		11.8	8.0
	14.5	10.6		12.1	8.3
2+20	14.7	10.9		12.1	8.3
6+00	15.0	11.2	+50	12.1	8.3
	15.1	11.3		12.3	8.5
	15.1	11.3		12.9	9.1
	15.0	11.2		13.8	10.0
	15.0	11.2		13.9	10.1
+50	15.0	11.2	9+00	13.7	9.9
	15.3	11.5		13.4	9.6
	15.2	11.4		13.4	9.6
	15.3	11.5	(3.8)	13.4	9.6
	15.3	11.5	2+25	13.4	9.6
7+00	15.4	11.9	+50	13.6	9.8
	15.0	11.2			
	14.7	10.9			

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Remedial area

STAN 83 +00; 0+00 = W 18000					75
DIST	Sound	elev	DIST	Sound	elev
				13.0	9.2
0+00					
2+30			+50	12.9	9.1
(3.8)	0.8	+3.0	(2.35)	12.8	9.0
	1.8	+2.0	(3.7)	12.2	8.4
	2.7	+1.1		12.0	8.2
+50	3.1	+0.7		12.1	8.3
	4.0	0.2	3+00	13.3	9.5
	10.2	6.4		14.0	10.2
	15.0	11.2		13.9	10.1
	15.9	12.1		14.5	10.7
1+00	14.7	10.9		14.2	10.4
	14.1	10.3	+50	13.9	10.1
	13.7	9.9	(2.35)	13.7	10.0
	13.1	9.3	(3.7)	13.7	10.0
	13.5	9.7		13.5	9.8
+50	13.8	10.0		13.4	9.7
	13.5	9.7	4+00	13.6	9.8
	13.4	9.6		13.5	9.8
	13.4	9.6		13.5	9.8
	13.5	9.7		13.8	10.1
2+00	13.3	9.5		13.8	10.1
	13.3	9.5	+50	13.8	10.1
	13.2	9.4		13.8	10.1
	12.7	8.9		13.6	9.9

STAN 83 +00 CONT EAST

DIST	Sound	elev	DIST	Sound	elev
	13.5	9.8		14.5	10.8
	13.5	9.8		14.0	10.3
5+00	13.5	9.8	750	13.9	10.2
(2.40)	13.8	10.1	(2.40)	13.3	9.6
(3.7)	13.8	10.1	(3.7)		
	13.9	10.2			
	13.8	10.1			
+50	13.5	9.8	8+00		
	13.5	9.8			
	13.7	10.0			
	13.8	10.1			
	14.0	10.3			
6+00	13.4	9.7	+50		
	13.5	9.8			
	13.5	9.8			
	13.9	10.2			
	14.1	10.4			
+50	14.2	10.5	9+00		
	14.2	10.5			
	14.2	10.5			
	14.0	10.3			
	14.1	10.4			
7+00	14.1	10.4	+50		
	14.8	11.1			
	14.9	11.2			

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IMPROVED TABLES
AND
INFORMATION

ESSENTIAL TABLES FOR THE

Latitude	Longitude	Time	Distance	Direction
10	10	10	10	10
11	11	11	11	11
12	12	12	12	12
13	13	13	13	13
14	14	14	14	14
15	15	15	15	15
16	16	16	16	16
17	17	17	17	17
18	18	18	18	18
19	19	19	19	19
20	20	20	20	20
21	21	21	21	21
22	22	22	22	22
23	23	23	23	23
24	24	24	24	24
25	25	25	25	25
26	26	26	26	26
27	27	27	27	27
28	28	28	28	28
29	29	29	29	29
30	30	30	30	30
31	31	31	31	31
32	32	32	32	32
33	33	33	33	33
34	34	34	34	34
35	35	35	35	35
36	36	36	36	36
37	37	37	37	37
38	38	38	38	38
39	39	39	39	39
40	40	40	40	40
41	41	41	41	41
42	42	42	42	42
43	43	43	43	43
44	44	44	44	44
45	45	45	45	45
46	46	46	46	46
47	47	47	47	47
48	48	48	48	48
49	49	49	49	49
50	50	50	50	50
51	51	51	51	51
52	52	52	52	52
53	53	53	53	53
54	54	54	54	54
55	55	55	55	55
56	56	56	56	56
57	57	57	57	57
58	58	58	58	58
59	59	59	59	59
60	60	60	60	60
61	61	61	61	61
62	62	62	62	62
63	63	63	63	63
64	64	64	64	64
65	65	65	65	65
66	66	66	66	66
67	67	67	67	67
68	68	68	68	68
69	69	69	69	69
70	70	70	70	70
71	71	71	71	71
72	72	72	72	72
73	73	73	73	73
74	74	74	74	74
75	75	75	75	75
76	76	76	76	76
77	77	77	77	77
78	78	78	78	78
79	79	79	79	79
80	80	80	80	80
81	81	81	81	81
82	82	82	82	82
83	83	83	83	83
84	84	84	84	84
85	85	85	85	85
86	86	86	86	86
87	87	87	87	87
88	88	88	88	88
89	89	89	89	89
90	90	90	90	90

ESSENTIAL TABLES FOR THE

Latitude	Longitude	Time	Distance	Direction
10	10	10	10	10
11	11	11	11	11
12	12	12	12	12
13	13	13	13	13
14	14	14	14	14
15	15	15	15	15
16	16	16	16	16
17	17	17	17	17
18	18	18	18	18
19	19	19	19	19
20	20	20	20	20
21	21	21	21	21
22	22	22	22	22
23	23	23	23	23
24	24	24	24	24
25	25	25	25	25
26	26	26	26	26
27	27	27	27	27
28	28	28	28	28
29	29	29	29	29
30	30	30	30	30
31	31	31	31	31
32	32	32	32	32
33	33	33	33	33
34	34	34	34	34
35	35	35	35	35
36	36	36	36	36
37	37	37	37	37
38	38	38	38	38
39	39	39	39	39
40	40	40	40	40
41	41	41	41	41
42	42	42	42	42
43	43	43	43	43
44	44	44	44	44
45	45	45	45	45
46	46	46	46	46
47	47	47	47	47
48	48	48	48	48
49	49	49	49	49
50	50	50	50	50
51	51	51	51	51
52	52	52	52	52
53	53	53	53	53
54	54	54	54	54
55	55	55	55	55
56	56	56	56	56
57	57	57	57	57
58	58	58	58	58
59	59	59	59	59
60	60	60	60	60
61	61	61	61	61
62	62	62	62	62
63	63	63	63	63
64	64	64	64	64
65	65	65	65	65
66	66	66	66	66
67	67	67	67	67
68	68	68	68	68
69	69	69	69	69
70	70	70	70	70
71	71	71	71	71
72	72	72	72	72
73	73	73	73	73
74	74	74	74	74
75	75	75	75	75
76	76	76	76	76
77	77	77	77	77
78	78	78	78	78
79	79	79	79	79
80	80	80	80	80
81	81	81	81	81
82	82	82	82	82
83	83	83	83	83
84	84	84	84	84
85	85	85	85	85
86	86	86	86	86
87	87	87	87	87
88	88	88	88	88
89	89	89	89	89
90	90	90	90	90

88

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IMPROVED TABLES AND INFORMATION

HORIZONTAL STADIA CORRECTIONS

2°-00' — 0.1	21°-00' — 12.3	33°-00' — 29.7
3°-00' — 0.3	21°-30' — 13.4	33°-15' — 30.1
4°-00' — 0.5	22°-00' — 14.0	33°-30' — 30.5
5°-00' — 0.8	22°-30' — 14.7	33°-45' — 30.9
6°-00' — 1.1	23°-00' — 15.3	34°-00' — 31.3
7°-00' — 1.5	23°-30' — 15.9	34°-15' — 31.7
8°-00' — 1.9	24°-00' — 16.5	34°-30' — 32.1
9°-00' — 2.5	24°-30' — 17.2	34°-45' — 32.5
10°-00' — 3.0	25°-00' — 17.9	35°-00' — 32.9
10°-30' — 3.3	25°-30' — 18.6	35°-15' — 33.3
11°-00' — 3.6	26°-00' — 19.2	35°-30' — 33.7
11°-30' — 4.0	26°-30' — 19.9	35°-45' — 34.1
12°-00' — 4.3	27°-00' — 20.6	36°-00' — 34.6
12°-30' — 4.7	27°-30' — 21.3	36°-15' — 35.0
13°-00' — 5.1	28°-00' — 22.0	36°-30' — 35.4
13°-30' — 5.5	28°-30' — 22.8	36°-45' — 35.8
14°-00' — 5.9	29°-00' — 23.5	37°-00' — 36.2
14°-30' — 6.3	29°-30' — 24.3	37°-15' — 36.6
15°-00' — 6.7	30°-00' — 25.0	37°-30' — 37.1
15°-30' — 7.2	30°-15' — 25.4	37°-45' — 37.5
16°-00' — 7.6	30°-30' — 25.8	38°-00' — 37.9
16°-30' — 8.1	30°-45' — 26.2	38°-15' — 38.3
17°-00' — 8.5	31°-00' — 26.5	38°-30' — 38.7
17°-30' — 9.0	31°-15' — 26.9	38°-45' — 39.1
18°-00' — 9.5	31°-30' — 27.3	39°-00' — 39.6
18°-30' — 10.1	31°-45' — 27.7	39°-15' — 40.0
19°-00' — 10.6	32°-00' — 28.1	39°-30' — 40.5
19°-30' — 11.2	32°-15' — 28.5	
20°-00' — 11.7	32°-30' — 28.9	
20°-30' — 12.3	32°-45' — 29.3	

Chains to Feet

1	66
2	132
3	198
4	264
5	330
6	396
7	462
8	528
9	594
10	660

Feet to Chains

100	1.515
200	3.030
300	4.545
400	6.060
500	7.575
600	9.090
700	10.606
800	12.121
900	13.636
1,000	15.151

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope $1\frac{1}{2}$ to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

TABLE No. 9.

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of corrections.

Degree of curve with a given I may be found by dividing tangent, (or external), opposite I by given tangent, (or external).

The distance from a point on the tangent to the curve is very nearly the square of the tangent length divided by twice the radius.

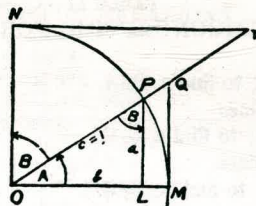


TABLE II
TRIGONOMETRIC FORMULÆ.

$$\angle A = \angle MOP \quad \angle B = \angle PON = \angle OPL$$

$$R = OP = c = 1$$

$$\sin A = \frac{a}{c} = \frac{a}{1} = a = \cos B = LP$$

$$\cos A = \frac{b}{c} = \frac{b}{1} = b = \sin B = OL$$

$$\tan A = \frac{a}{b} = \frac{MQ}{OM} = \frac{MQ}{1} = MQ = \cot B = MQ$$

$$\cot A = \frac{NT}{ON} = \frac{NT}{1} = NT = \tan B = NT$$

$$\sec A = \frac{OQ}{OM} = \frac{OQ}{1} = OQ = \csc B = OQ$$

$$\csc A = \frac{OT}{ON} = \frac{OT}{1} = OT = \sec B = OT$$

$$\text{vers } A = \frac{LM}{OP} = LM = \text{covers } B \#$$

$$\text{covers } A = \frac{OP - LP}{OP} = OP - LP = \text{vers } B$$

$$\text{exsec } A = PQ = \text{coexsec } B$$

$$\text{coexsec } A = PT = \text{exsec } B$$

$$\sin \frac{1}{2} A = \sqrt{\frac{1 - \cos A}{2}} \quad \cos \frac{1}{2} A = \sqrt{\frac{1 + \cos A}{2}}$$

$$\sin 2A = 2 \sin A \cos A \quad \cos 2A = \cos^2 A - \sin^2 A$$

$$\text{Law of Sines} \quad \frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

$$\text{Law of Cosines} \quad c^2 = a^2 + b^2 - 2ab \cos C$$

$$\text{Law of Tangents} \quad \frac{a+b}{a-b} = \frac{\tan \frac{1}{2}(A+B)}{\tan \frac{1}{2}(A-B)}$$

DISTANCE FROM BIRD STANDS FOR CROSS-BATTING

TABLE NO. 1. DISTANCE IN AIR MILES.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	
0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.48	0.49	0.50	0.51	0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.62	0.63	0.64	0.65	0.66	0.67	0.68	0.69	0.70	0.71	0.72	0.73	0.74	0.75	0.76	0.77	0.78	0.79	0.80	0.81	0.82	0.83	0.84	0.85	0.86	0.87	0.88	0.89	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.00
0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.48	0.49	0.50	0.51	0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.62	0.63	0.64	0.65	0.66	0.67	0.68	0.69	0.70	0.71	0.72	0.73	0.74	0.75	0.76	0.77	0.78	0.79	0.80	0.81	0.82	0.83	0.84	0.85	0.86	0.87	0.88	0.89	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.00
0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.48	0.49	0.50	0.51	0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.62	0.63	0.64	0.65	0.66	0.67	0.68	0.69	0.70	0.71	0.72	0.73	0.74	0.75	0.76	0.77	0.78	0.79	0.80	0.81	0.82	0.83	0.84	0.85	0.86	0.87	0.88	0.89	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.00

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