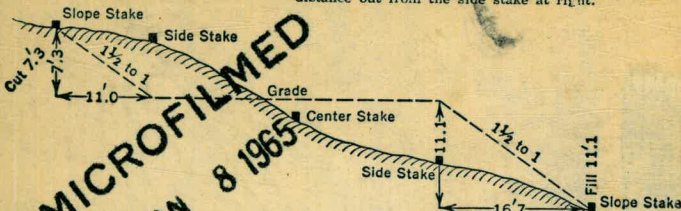


MB III

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
Roadway of any Width. Side Slopes 1½ to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



MICROFILMED
JAN 8 1965

Cut or Fill	Distance out from Side or Shoulder Stake										Cut or Fill
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.0	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.

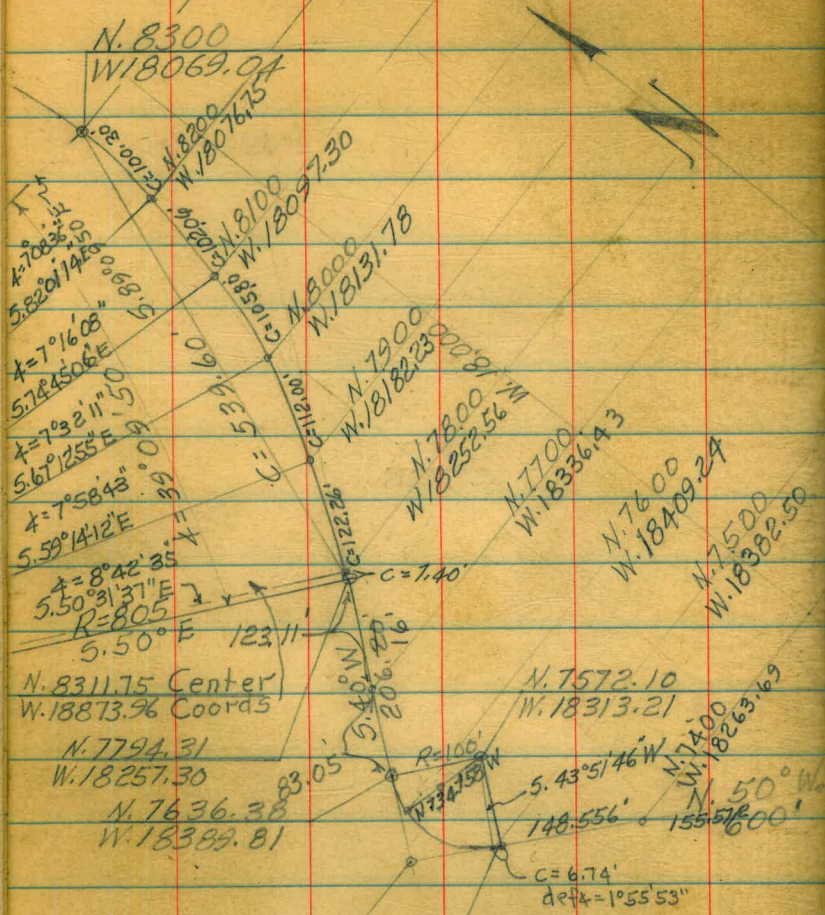
M/B No. 111

THIS Book INDEXED 2/7/62

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

B/L LAYOUT for X-sec + Soundings of	
Remedial Dredging area	1-2
B/L SUNSET POINT + VICINITY	3-
B/L SWBY TIERRA DEL FUEGO	4-5
X-SECTIONS SUNSET POINT (Remedial)	6-7
" " Venturas Gleason pts	7-11
" " WLY TIERRA DEL FUEGO	11-14

BASELINE LAYOUT FOR X-SEC. & SOUNDING
OF REMEDIAL DREDGING AREA NO. 64501



Sta.	Obj	Def. A	Chord
B.C.			
N. 7495.49	N. 75+00	1°55'53"	6.74
W. 18377.48			
	N. 76+00	33°06'01"	103.51
	EG.	45°00'	41.24'

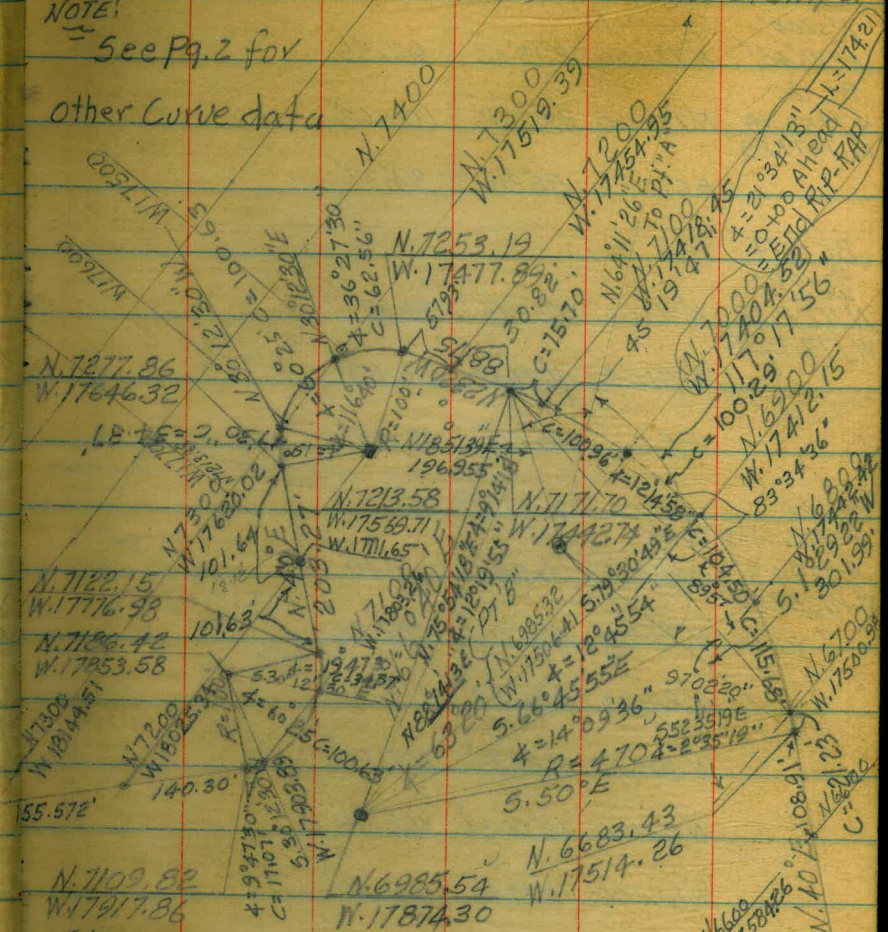
FOR TIE OUT OF POINT "B" See
Page #2

3-27-1959

J.A. Stamper

NOTE:

= See Pg. 2 for
other Curve data



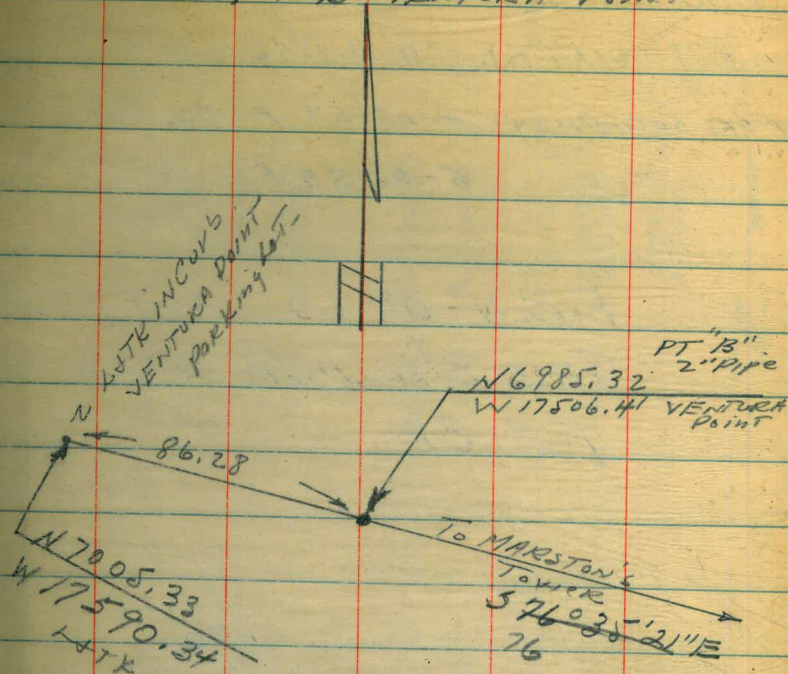
Sta.	Obj	Def. A	Chord
N. 6683.43	N67+00	1°17'40"	21.23'
W. 17514.26			
	N68+00	8°22'28"	115.68'
	N69+00	14°45'25"	104.50'
	N70+00	20°52'54"	100.29'
	N71+00	27°02'31"	100.96'
EG.	N71+71.70	31°40'	75.70'

Sta.	Object	Def. &	Chord
$R=100'$	(see Pg. 1)		
$\Delta=116'40'$	N73+00	$18^{\circ}13'45''$	62.56'
BC Lt.			
N7253.19	N73+00	$48^{\circ}26'15''$	100.63'
W.17477.89			
E.C.		$58^{\circ}20'$	34.37'

BC Rt	(see Pg. 1)		
$R=100'$			
$\Delta=90^{\circ}$			
N7122.15	N71+00	$9^{\circ}53'45''$	34.37'
W.17776.98			
N71400		$40^{\circ}06'15''$	100.63'
E.C.		$45^{\circ}00'$	17.07'

BC Lt	(see Pg. 1)		
$R=805'$	$\Delta=39^{\circ}09'50''$		
N.7794.31	N.78+00	$0^{\circ}15'48''$	7.40'
W.18257.30			
N.79+00		$4^{\circ}37'06''$	122.26'
N.80+00		$8^{\circ}36'27''$	112.00'
N.81+00		$12^{\circ}22'32''$	105.80'
N.82+00		$16^{\circ}00'36''$	102.06'
N.83+00		$19^{\circ}34'55''$	100.30'

TIE OUT OF POINT "B" VENTURA POINT



BASELINE LAYOUT SUNSET POINT

& VICINITY. W.O. 64501

FOR SOUNDING: 4-08-59 FB 112-24

" " 5-08-59 FB 111+15

F.B. N^o 88 15 LOST; USE
THIS B/L. DATA IN LIEU OF
F.B. 88

94	
113	

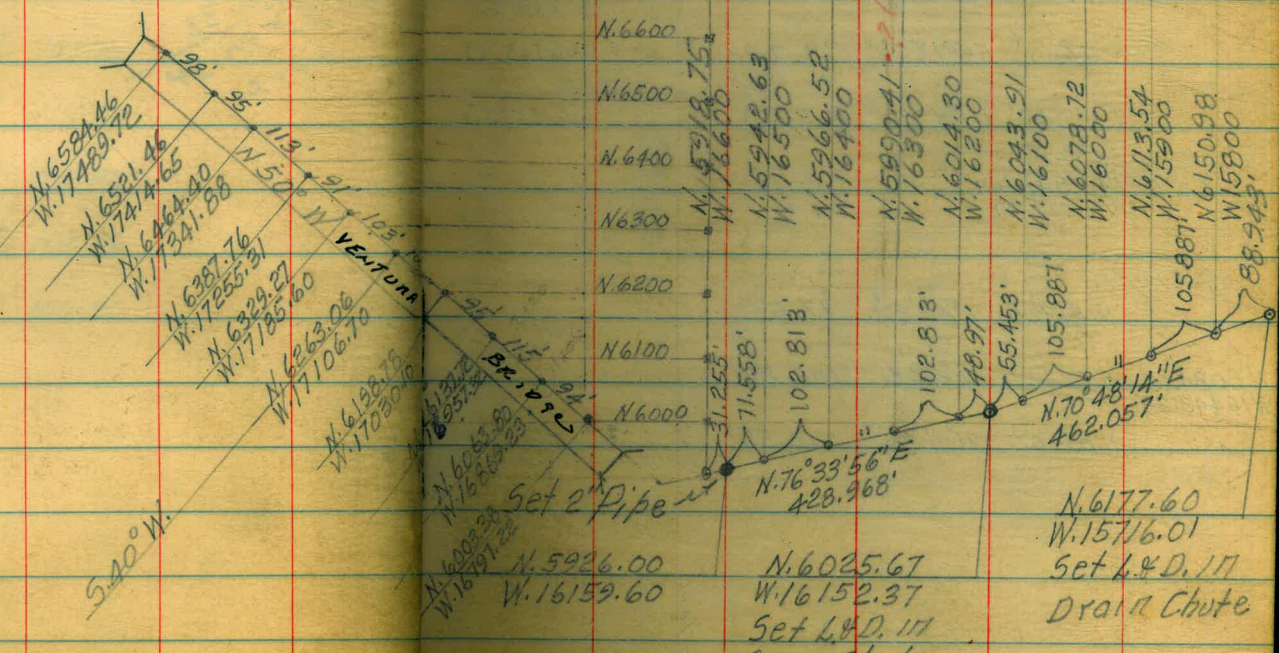
209	711
95	95

304	806
100	98

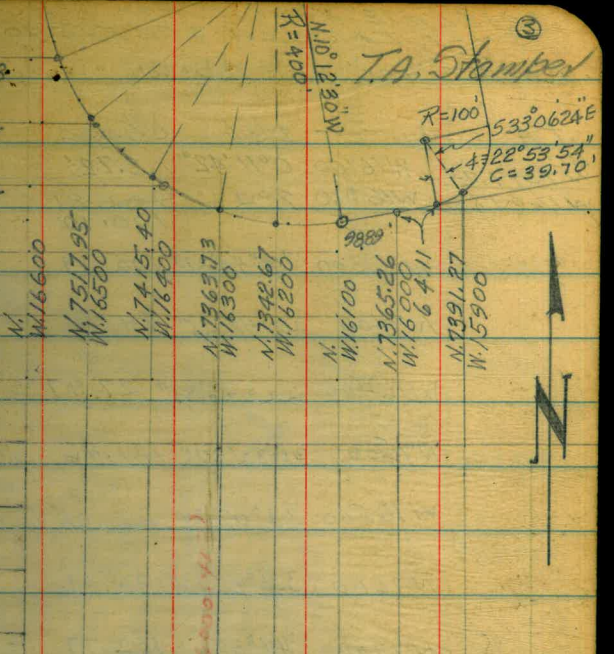
704	(904)
103	

507	
91	
598	
113	

111	



N.7600 W.16542.38
 N.7500 W.16487.15
 N.7400 W.16376.65
 N.7300
 N.7200
 N.7100
 N.7000
 N.6900
 N.6800
 N.6700
 N.6600
 N.6500
 N.6400
 N.6300
 N.6200
 N.6100
 N.6000



SUNSET POINT

BASELINE LAYOUT FOR X-SECT SOUNDING
SWLY TIERRA DEL FUEGO - ALLEN

RAD = 400' Δ = 127°00'

STA	OBJECT	Def	Chord
BC			
N7347.73	W16100	0°11'42"	2.72'
W16097.32	W16200	7°23'	102.81
			100.10
	W16300	14°43'21"	102.19
	N7400	20°48'25"	84.79
	W16400	22°48'39"	27.97
	N7500	31°32'37"	121.46
	W16500	33°07'24"	22.05
	N7600	39°45'12"	92.36
	N7700	47°08'01"	102.77
	N7800	54°18'58"	99.22
	N7900	6°47'01"	103.97
	EC		
	N7921.70	63°30'	23.96
	W16525.27		
	N.81+00	1°40'20"	17.51'
	N.8084.15	N.82+00	11°32'41"
	W16443.25		102.87'
		N.83+00	21°11'30"
			100.55'

W17000

W16900

W16800

W16700

W16600

W16500

W16400

W16300

W16200

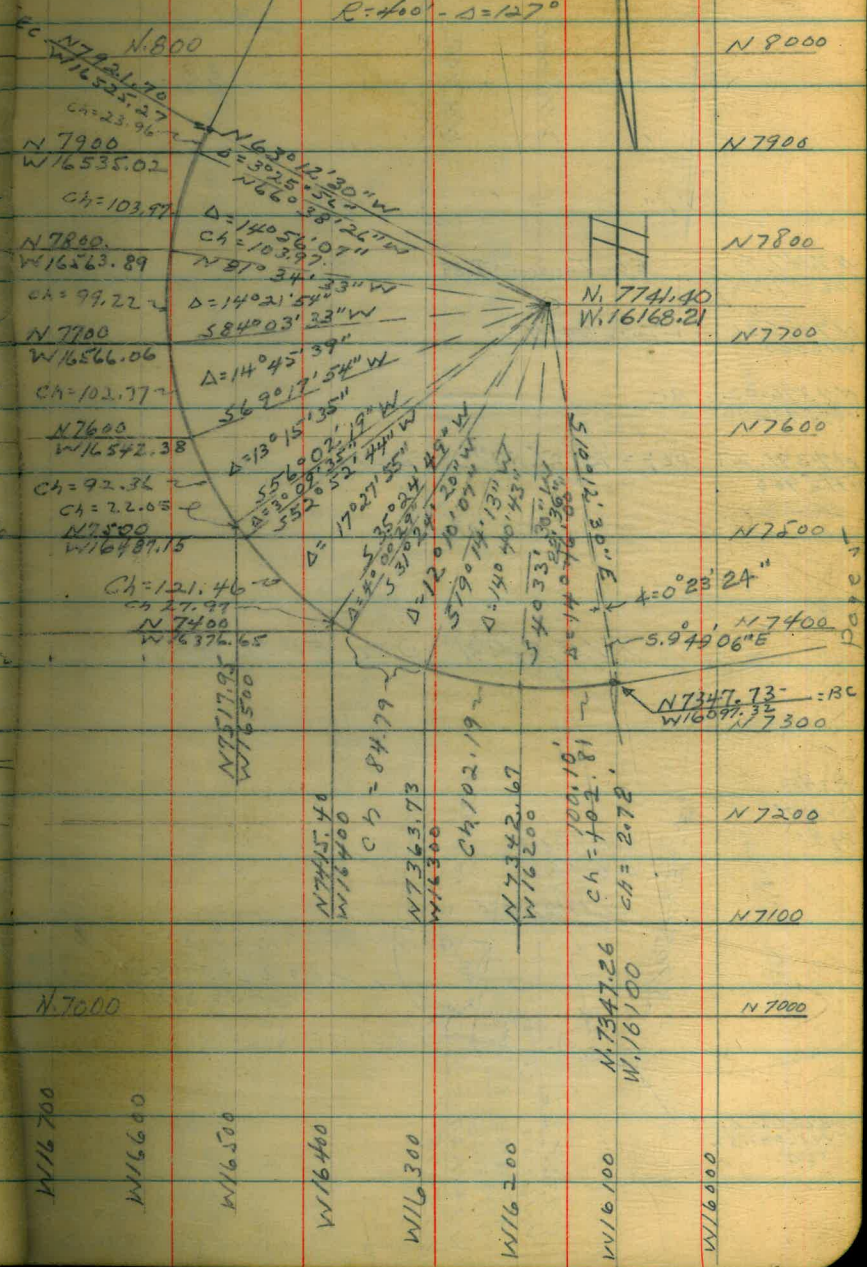
W16100

W16000

Page 5

TIERRA DEL FUEGO
PW92020-D

R=400' Δ=127°



N 8000

N 7900

N 7800

N 7700

N 7600

N 7500

N 7400

N 7300

N 7200

N 7100

N 7000

ALLEN

W16000

W15900

Limit of Draining

N 7347.73
W16097.32

EC Tangent 98.89

N 7365.26
W16000

Tan 64.11

N 7376.02 : BC
W15936.90

N 7391.27 $\Delta = 11^\circ 12' 26.57''$ Ch = 39.70 ?
W15900

TIERRA DEL FUEGO

R=400'
D=127°
Pg 4

N 7475.04
W15953.62

N 794730 E

Set Hub N 7475.04
R=100'

$\Delta = 22^\circ 53' 54''$
Chord = 39.70

Set R.F. Hub N 7440

N 7347.73
W16097.32
Pg 4

N 7365.26
W16000
N 7376.62
W15986.90
N 7391.27
W15900

FOR TIES
POINT "B"
VENTURA DT
See Page 2

R=570
D=174° 41' 52"

ALLEN
TIERRA DEL FUEGO ⑤

N 8518.83
W16693.91

53° 21' 28" W

R=300'
D=115° 20' 42"

N 74024' 30" E
W1674.04
 $\Delta = 19^\circ 17' 37''$
C=100.57

586° 17' 53" E

$\Delta = 190^\circ 44' 42''$
C=110.2

566° 33' 14" E

$\Delta = 3^\circ 20' 41''$

N 26° 47' 30" E

N 8000
W16485.73

87.78°

PL N 7921.70
W16525.27

N 7800

31° 37' 09" W
444.35
N 5409' 39" W

PT A
N 7479.15
W16485.30

N 7400
1134.255 to Point "B"
VENTURA Point
N 64° 11' 26" E
W16700
W16600
W16500
W16400
W16300
W16200

R=400'
D=127°
See Page 4

TIERRA
DEL
FUEGO

571° 07' 14" E
409.63

W16200

4-07-59

CROSS SECTIONS SUNSET POINT FOR

REMEDIAL DREDGING W.O. 64501

STA. W. 159+00; 0+00 = N. 6113.54

Sta.

Elev

N 2

10.3

N 15

8.6

B.M.

9.23

L. + TRW
L. Romps

N 17

6.3

N
W

0

9.8

N 36

2.7

N
W

N 3

10.0

N 65

1.6

N
W

N 15

7.7

STA. W. 162+00; 0+00 = N. 6014.30

N
W

N. 50

4.9

0

10.0

N. 87

1.8

N. 25

8.8

STA. W. 160+00; 0+00 = N. 6078.72

N. 27

5.9

0

10.1

N 58

5.3

N. 2

10.2

N 72

4.6

R
D
P

N. 9

8.7

N. 30

1.5

P

N. 12

6.9

W. 163+00; 0+00 = N. 5990.41 - N6000A1
J.R.

N. 50

4.3

0

11.5

N. 100

1.5

N. 17

10.8

N. 35

1.3

TP.

11.47

4-07-59

W. 164+00; 0+00 = N 5966.52

Sta Elev

0 11.2

N 33 11.1

N 50 1.5

W. 165+00; 0+00 = N. 5942.63

0 10.9

N 42 10.0

N 60 1.1

W. 166+00; 0+00 = N. 5918.75

0 11.5

N 48 10.7

N 65 1.4

TP. 10.55

B.M. 9.22 ~ 9.23

FB 112 - P. 2 ~ + ETC

CROSS SECTIONS VENTURA GLEASON

POINTS FOR REMEDIAL DREDGING

STA. N 67+00; 0+00 = W. 17500.98

Sta. Elev. P.K. NE.
W. Wall.
Ventura Bridge0+00 11.91 H₀
9R same

E 28 10.8

E 37 8.1

E 45 3.2

FB 112 - 29

STA N 68+00; 0+00 = W 17442.42

0+00 11.36 H₀
9R same

E 12 11.3

E 26 3.3

FB 112 - 30

STA N 69+00; 0+00 = W 17412.15

0+00 11.50 H₀
9R same

E 10 11.3

E 25 3.3

SHORE SECTIONS REMEDIAL - CONT
FB 112-32

X-sec

Shore sections Remedial Dredging

X-sec ②

West

STA N70+00; 0+00 = W17404.52

EAST

STA N72+00; 0+00 = W17454.95

STA

ELEV

STA

ELEV

0+00

10.85

Hub

0+00

10.52

Hub

gr same

E 7

10.4

W100

ON ISLAND

10.6

E 22

3.4

W200

ON ISLAND

10.5

FB 112-33 -

W256.70 = W17711.65 - Top of Shore

9.76

Hub

gr same

STA N 71+00; 0+00 = W17418.45

X-sec

EAST W314

6.6

0+00

11.28

Hub

gr same W317

5.6

E 11

10.3

W400

4.2

E 26

3.4

W446

4.0

W495

5.6

STA N72+00; 0+00 = W17454.95

X-sec

LINE WEST Shore Cove

EAST W570.39 = W18025.34 = Top of Shore

9.9

Hub

0+00

10.52

Hub

gr same

STA N73+00; 0+00 = W17519.39

X-sec

EAST

E 4

10.5

0+00

8.50

Hub

gr same

E 12

7.7

E 9

6.6

E 20

6.7

E 22

6.0

E 26

3.5

E 62

3.3

STA W 175+00 - 0+00 = N 7300

STA	ELEV
0+00	6.3
N 14	4.4
N 32	3.3

North STA N 74+00; 0+00 = W 18263.69

STA	ELEV
0+00	9.73
E 42	8.4
E 47	6.9
E 88	3.2

X-sec EAST Hub gr some Hub gr some

STA W 176+00 0+00 = N 7300

STA	ELEV
0+00	9.2
N 6	7.0
N 14	3.3

North STA N 75+00; 0+00 = W 18382.50

STA	ELEV
0+00	10.34
E 48	8.3
E 85	5.5
W/E 120	4.2
E 126	3.1

X-sec EAST Hub gr some

STA N 73+00; 0+00 = W 17620.02

STA	ELEV
0+00	5.22
W 12	3.3
W 59	3.3
W 100	3.8
W 117	3.3

X-sec W/E 120 Hub gr some

STA N 76+00; 0+00 = W 18409.24

STA	ELEV
0+00	9.23
E 50	7.0
E 100	4.5
E 140	3.1

X-sec EAST Hub gr some

STA N 73+00; 0+00 = W 18144.51

STA	ELEV
0+00	10.05
E 40	9.0
E 43	6.8
E 86	3.2

X-sec EAST Hub gr some

130

4-13-59 X-sec REMEDIAL DREDGING

CROSS SECTIONS VENTURA & GLEASON 10
X-sec POINTS for REMEDIAL Dredging 4-14-59

STAN 77+00; 0+00=W 18336.43 EAST

STA	ELEV	HUB
0+00	10.67	gr some
E 18	8.5	
E 103	3.8	
E 108	3.0	

STAN 79+00; 0+00=W 18182.23 EAST

STA	ELEV	HUB
E 107	11.39	BM
0+00	12.14	
E 20	9.8	
E 90	3.9	
E 107	1.9	

X-sec EAST

MON
COASTER
HUB
GROUND
same

STAN 78+00; 0+00=W 18252.56

STA	ELEV	HUB
0+00	11.63	gr some
E 26	8.6	
E 97	3.8	
E 102	3.0	

X-sec EAST
HUB

STAN 80+00; 0+00=W 18131.78 EAST

STA	ELEV	HUB
0+00	12.44	
E 20	10.3	
E 103	1.9	

X-sec EAST
HUB
GROUND
same

STAN 81+00; 0+00=W 18097.30 EAST

STA	ELEV	HUB
0+00	12.19	gr some
E 19	10.4	
E 88	2.8	
E 102	1.9	

X-sec EAST
HUB
gr some

STA N 82+00; 0+00 = W 18076.75 EAST X-SECTIONS TIERRA DEL FUEGO (WLY)

STA	ELEV	HUB	FOR REMEDIAL DREDGING -	X-SEC
0+00	12.01	9r 1st	STA W 159+00; 0+00 = N 7391.27	SOUTH + N Nully code CONC TYPING Pad BASE ON TIERRA Del Fuego
E 21	10.7		BM	14.45
E 39	8.5		STA	ELEV
E 43	7.7		N 33 off shore To show existing top	13.1
E 87	2.7		N 23	7.1
E 102	1.9		N 5 unable to read due to HOL TIDE	3.4

STA N 83+00; 0+00 = W 18069.04 EAST X-SEC STA W 160+00; 0+00 = N 7365.26 SOUTH + N

0+00	11.50	9r Sec 8	Shore To show Top existing	12.2
E 22	10.2		0+00	5.9
E 42	8.4		S 12	3.5
E 45	7.6			
E 102	2.0		STA W 161+00; 0+00 = N 7347.26 existing shore To show Top of	12.0
			0+00	5.9
			S 11	3.5

WLY TIERRA DEL FUEGO CONT -
REMEDIOS 9462

WLY TIERRA DEL FUEGO

1/2
X-sec

STAW 162+00; 0+00 = N 7342.67

X-sec
South STA 164+00; 0+00 N 7415.40

SOUTH

STA

ELEV

STA

ELEV

stubs

0+00 = Top of existing shore

11.8

0+00

11.44

gr. same

S 6

6.3

S 17 - Top existing shore

11.5

S 19

3.6

S 38

4.8

S 52

3.6

STAW 163+00; 0+00 = N 7363.73

X-sec

South

Hub

gr. same

0+00

12.02

STAN 75+00; 0+00 = W 16487.15

X-sec

WEST

stubs

gr. same

S 16 = Top existing shore

11.6

0+00

12.19

S 24

6.2

W 25 = Top existing shore

11.5

S 34

3.6

W 37

6.6

W 83

3.6

STAN 74+00; 0+00 = W 16376.65

X-sec

WEST

stubs

gr. same

0+00

11.98

STAW 165+00; 0+00 N 7517.95

X-sec

South

stubs

ground

same

W 26 = Top existing shore

11.4

0+00

12.20

W 42

7.2

S 42 = Top existing shore

10.4

W 55

5.0

S 55

6.5

W 105

3.6

S 106

3.7

Shore section WLY TIERRA DEL FUEGO		X-sec	TP EC OF 400' Rad curve N 79 21.70 - W 165 28 27	710.27	U3
STA N 76+00; 0+00 = W 16542.38	West	X-sec	STA N 79+00; 0+00 = W 16535.02	West	X-sec West
STA	ELEV		STA	ELEV	
0+00	12.16	Stub gr Same	0+00	9.90	ON X'ON conc Drain Slab
W 11 = Top existing Shore	11.5		W 19	9.1	
W 21	6.9		W 43	6.1	
W 59	3.6		W 81	3.6	
STA N 77+00; 0+00 = W 16566.06	West	X-sec Stub gr Same	7-15-59 STA N 80+00; 0+00 = W 16485.73	West	X-sec Stub gr Same
0+00	11.27		0+00	11.21	
W 17 = Top existing Shore	10.4		W 27	9.1	
W 24	6.6		W 34	7.5	
W 30	5.0		W 120	1.4	
W 50	3.6				
STA N 78+00; 0+00 = W 16563.89	West	X-sec Stub gr Same	STA N 81+00; 0+00 = W 16435.75	West	X-sec Stub gr Same
0+00	10.77		0+00	11.56	
W 12 = Top existing Shore	10.0		W 35	9.3	
W 20	6.8		W 130	1.4	
W 66	3.5				

REMEDIAL Dredging Section

STAN 82+00; 0+00 = W/6411.67

X-
W

STA	ELEV
0+00	11.97
W/40	9.1
W/140	1.4
W	

Hu
9
San

STAN 83+00; 0+00 = W/6422.08

X-
Wet
Hu
9

0+00	12.31
W/45	9.5
W/100	5.4
W/150	2.7
W/162	1.4
W	
W	
W	
W	

5-8-59 - sketch FB 111-3
 ORIG SECT. FB 112-24

END SECTION WLY FROM ELY Side

OF VENTURA BRIDGE - AFTER

↳ Dredging - SOUND 540° W -

↳ STAN 60+03.38; 0+00 = W 16797.22

↳ SOUND 540° W -

↳ DIST SOUND ELEV DIST SOUND ELEV

10:40

0+00

(4.1)

19.7 15.6 +5.0 23.0 18.9

20.3 16.2 23.6 19.5 +5.0

20.5 16.4 23.5 19.4

20.0 15.9 (4.1) 23.5 19.4

18.9 14.8 10:45 24.0 19.9

+5.0 18.1 14.0 2+00 23.0 18.9

17.9 13.8 23.0 18.9 1+00

20.1 16.0 23.1 19.0

21.0 16.9 23.5 19.4

23.1 19.0 23.4 19.3

1+00 23.2 19.1 +5.0 23.0 18.9

23.7 19.6 23.0 18.9 +5.0

24.0 19.9 23.1 19.0

23.5 19.4 23.7 19.6

23.3 19.2 10:46 2+90 24.0 19.9

Dredge

5-8-59

STAN 60+63.80; 0+00 = W 16869.23

SOUND 540° W

DIST SOUND ELEV DIST SOUND ELEV

10:15

0+00

(4.1)

16.8 12.7 24.9

18.2 14.1 2+00 24.3 20.2

19.4 15.3 23.5

19.2 15.1 24.3

19.0 14.9 24.5

+5.0

17.4 13.3 24.2

17.3 13.2 +5.0 24.7 20.6

22.3 18.2 24.1

22.8 18.7 24.3

22.5 18.4 24.1

1+00

22.5 18.4 (4.1) 24.0

10:20

3+00

23.0 18.9 24.0 19.9

24.0 19.9

24.5 20.4

24.8 20.7

25.1 21.0

24.5

24.7

24.5

5-8-59

STAN 61+37.72; 0+00=W17957.32

10:52

	DIST	SOUND	ELEV	DIST	SOUND	ELEV
	0+00	13.5	9.4		25.0	
	(4.1)	15.0	10.9	2+00	24.3	
		15.7	11.6		24.1	
		16.5	12.4		23.9	
		15.8	11.7		24.8	
	+50	15.0	10.9		24.9	
		19.5	15.4	+50	24.9	
		22.9	18.8		24.9	
		22.5	18.4		25.0	
		23.0	18.9		24.8	
	+100	23.3	19.2	(4.1)	24.8	
		23.6	19.5	11:00	24.6	
		23.5	19.4	3+00	24.6	
		24.0	19.9			
	(4.1)	23.9	19.8			
	16:55	24.0	19.9			
	+50	24.2	20.1			
		25.2	21.1			
		24.9	20.8			

5-8-59

STAN 61+98.78; 0+00=W17030.10

Sound¹⁶
5400W

	DIST	SOUND	ELEV	DIST	SOUND	ELEV
	0+00	15.0	10.9		23.5	19.4
	(4.1)	16.5	12.4	2+00	23.0	18.9
		17.5	13.4		22.8	
		18.0	13.9		23.2	
		17.5	13.4		23.3	
	+50	17.1	13.0		23.2	
		17.0	12.9	+50	23.6	
		21.3	17.2		23.2	
		22.2	18.1		23.4	
		23.2	19.1		23.5	
	+100	24.0	19.9	(4.1)	23.6	
		24.2	20.1	11:10	23.7	
		24.0	19.9	3+00	23.7	
		24.7	20.6			
		24.9	20.8			
	+50	24.6	20.5			
		23.9	19.8			
		23.6	19.5			
		24.0	19.9			

STAN 62+63.06; 0+00=W17106.70 ^{Sound} 540°W

DIST	SOUND	FLEV	DIST	SOUND	FLEV
11:15 0+00	14.1	10.0		25.7	
(4.1)	13.1	9.0	2+00	25.1	
	13.5	9.4		24.7	
	15.1	11.0		24.0	
	14.8	10.7		23.8	
+58	14.9	10.8		23.9	
	15.2	11.1	+58	24.0	
	16.7	12.6		24.5	
	20.0	15.9		24.8	
(4.0)	22.7	18.7	(4.0)	24.6	
11:20 1+00	23.2	19.2	11:25	24.6	
	23.3	19.3	2+00	26.5	
	22.0	18.0			
	23.0	19.0			
	23.5	19.5			
+58	25.0	21.0			
	25.4	21.4			
	26.3	22.3			
	26.2	22.2			

STAN 63+29.27; 0+00 W17185.60 ^{Sound} 540°W

DIST	SOUND	FLEV	DIST	SOUND	FLEV
11:30 0+00	22.2	18.2		26.3	22.3
(4.0)	25.0	21.0	2+00	26.8	22.8
	26.0	22.0		25.4	
	26.3	22.3		25.0	
	25.6	21.6		25.0	
+58	23.2	19.2		24.0	
	20.1	16.1	+58	24.5	
	22.7	18.7		25.3	
	24.7	20.7		25.0	
	24.8	20.8		25.0	
1+00	24.0	20.0	(3.9)	24.6	
	24.4	20.4	11:37 3+00	25.0	
	23.5	19.5			
	23.5	19.5			
(3.9)	23.3	19.3			
11:35 +58	24.2	20.2			
	24.8	20.8			
	24.5	20.5			
	25.6	21.6			

5-8-59

500
540

STAN 63+87.76; 0+00=W 17255.31

DIST	SOUND	ELEV	DIST	SOUND	ELEV
1:10 0+00	25.5	22.4		25.0	21.9
(3.1)	26.3	23.2	2+00	25.0	
	26.4	23.3		24.9	
	26.5	23.4		23.8	
	25.7	22.6		24.0	
+50	ROCK 21.0	17.9		25.0	
	21.0	17.9	+50	25.0	
	24.2	21.1		25.4	
(3.1)	25.9	22.8		25.0	
1:15	26.5	23.4	(3.1)	25.0	
1+00	27.0	23.9	1:17	25.0	
	27.0	23.9	3+00	25.2	
	26.2	23.1			
	25.5	22.4			
	25.5	22.4			
+50	25.3	22.2			
	25.2	22.1			
	25.1	22.0			
	25.0	21.9			

5-8-59

SOUND
5400W

STAN 64+64.40; 0+00=W 17341.88

DIST	SOUND	ELEV	DIST	SOUND	ELEV
1:25 0+00	23.0	20.0		24.3	
(3.0)	25.3	22.3	2+00	24.3	
	25.4	22.4		24.5	
	25.0	22.0		24.3	
	24.2	21.2		24.5	
+50	ROCK 23.2	20.2		24.3	
	ROCK 20.0	17.0	+50	24.3	
	ROCK 20.0	17.0		23.7	
	22.8	19.8		23.8	
	25.2	22.2		24.0	
	27.0	24.0	(2.9)	24.1	
	25.5	22.5	1:30		
	25.2	22.2	3+00	24.1	
	25.2	22.2			
	25.2	22.2			
	25.0	22.0			
+50	25.0	22.0			
	25.0	22.0			
	25.0	22.0			
	25.0	22.0			

OUT OF POSITION 5-8-59

STAN 59+66.10 = W 16752.79

SOUND

540

STAN 65+21.46; 0+00 = W 17414.65

119
SOUND
540

DIST	SOUND	ELEV	DIST	SOUND	ELEV	DIST	SOUND	ELEV	DIST	SOUND	ELEV
18.25						11.33					
0400	5.1	1.1	10:30	13.1		0400	18.0	15.2		23.2	
(4.0)	7.9		2+00	14.0		(2.8)	18.0	15.2	2+00	23.1	
	6.5			14.6			17.8	15.0		23.2	
	6.0			14.3			16.8	14.0		23.1	
	6.0			14.0			ROCK 15.2	12.4		23.3	
+50	6.0			16.9		+50	ROCK 14.1	11.3		23.5	
	6.1		+50	16.6			ROCK 14.0	11.2	+50	23.1	
	6.5			17.0			16.1	13.3		23.1	
	7.7			16.5			18.9	16.1		23.0	
	9.0		(4.1)	17.1		(2.8)	20.9	18.1		22.9	
1+00	10.0		10:31	20.2		11.35 1+00	22.0	19.2	(2.8)	22.5	
	9.9		3+00	20.1			23.2	20.4	3+00	22.5	
	9.8						23.9	21.1			
	9.7						23.2	20.4			
	10.8						23.3	20.5			
+50	10.8					+50	23.3	20.5			
	11.2						23.2	20.4			
	13.1						23.3	20.5			
	14.4						23.2	20.4			

SOUNDING W/LY OF VENTURA BRIDGE
5-8-59
STA N 65 + 84.46; 0+00 = W 17489.72

RE SOUND OF REMEDIAL AREA 120
5-29-59
GROUND SUNSET POINT + VENTURA

DIST	SOUND	ELEV	DIST	SOUND	ELEV
1:40			(2.7)		
0+00	3.5	0.7	1:45	7.5	4.8
(2.8)	3.5	0.7	2+00	7.6	4.9
	3.2	0.4		9.4	
	2.5	+0.3		9.9	
	2.0	+0.8		9.3	
+50	1.5	+1.3		9.5	
	3.0	0.2	+50	9.2	
	3.2	0.4		7.6	
	4.0	1.2		6.5	
	4.5	1.7		5.4	
1+00	4.0	1.2		4.6	
	4.2	1.4	3+00	4.0	
	6.3	3.5			
	9.3	6.5			
	10.8	8.0			
+50	11.0	8.2			
	10.5	7.7			
	9.3	6.5			
	7.2	4.4			

BRIDGE AFTER DREDGING - B/L

- Page 3 - This Book -

STA W 159 + 00; 0+00 = N 6200. Sound North
5-29-59

DIST	SOUND	ELEV	DIST	SOUND	ELEV
11.25					
0+00					
(1.2)					
	0.0	+1.2		11.4	10.2
	1.8	0.6		11.4	10.2
	2.2	1.0		11.7	10.5
	3.0	1.8	2+00	11.7	10.5
+50	6.2	5.0		11.8	10.6
	7.2	6.0		11.2	10.0
	7.8	6.6		12.0	11.8
	7.8	6.6		11.0	10.8
	7.8	6.6	+50	10.8	9.6
	8.9	7.7		10.2	9.0
+50	10.0	8.8		10.0	8.8
	11.2	10.0		7.8	6.6
	12.0	11.8	(1.2)	8.5	7.3
	12.1	11.9	11:30		
	11.9	10.7	3+00	9.4	8.2
	11.9	10.7		9.6	8.4
+50	11.4	10.2		9.4	8.2

STA W 159400 Cont NORTH

DIST	Sound	Elev	DIST	Sound	Elev
	9.4	8.2		9.2	8.0
	9.8	8.6		9.0	7.8
+50	9.6	8.4	+50	9.0	7.8
	9.8	8.4		9.5	8.3
	9.8	8.6		10.0	8.2
	9.4	8.2		10.0	8.8
	9.6	8.4	(1.2)	10.0	8.8
4+00	9.5	8.3	11:35 6+00	9.8	8.6
	9.2	8.0		9.4	8.2
	8.4	7.2		9.8	8.6
	8.5	7.3		9.6	8.4
	8.9	7.7		9.8	8.6
+50	9.4	8.2	+50	9.6	8.4
	9.2	8.0		9.9	8.7
	9.0	7.8		10.1	8.9
	9.2	8.0		11.2	10.0
	9.2	8.0		12.4	11.2
5+00	9.2	8.0	7+00	13.2	12.0
	9.0	7.8		12.6	11.4
	9.0	7.8		12.0	10.8

STA W 159400 Cont NORTH (21)

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	12.2	11.0		11.4	10.2
	11.6	10.4	(1.2)	11.1	9.9
+50	12.0	10.8	11:40 +50	10.4	9.2
	12.4	11.2		9.7	8.5
	12.8	11.6		9.5	8.3
	12.9	11.7		9.2	8.0
	13.9	11.7		9.0	7.8
8+00	12.7	11.5	10+00	8.0	6.8
	12.6	11.4		7.2	6.0
	12.9	11.7		6.6	5.4
	13.0	11.8		4.9	3.7
	13.3	12.1		3.0	1.8
+50	14.1	12.9	+50	2.2	1.0
	8.9	7.7		2.0	0.8
	8.8	7.6		2.0	0.8
	9.5	8.3		1.9	0.7
	10.0	8.8		1.8	0.6
9+00	10.8	9.6	11+00	1.8	0.6
	10.3	9.1	(1.2)	1.7	0.5
	11.5	10.3	11:43	1.7	0.5

STAN 160+00; 0+00 = N 6158.0

Sound DIST STA W 160+00 CONT NORTH 22

DIST	SOUND	ELEV	DIST	SOUND	ELEV	DIST	SOUND	ELEV	DIST	SOUND	ELEV
8+00				12.8	11.5						
			2+00	12.5	11.2	4+00			6+00		
<u>1.3</u>				11.7	10.4						
11:50	1.1	+0.2		11.0	9.7						
	2.5	1.2		11.0	9.7						
	5.6	4.3		10.5	9.2						
	6.5	5.2	+50	10.6	9.3	+50			+50		
	7.0	5.7		10.5	9.2						
	8.3	7.0		10.5	9.2						
	9.2	7.9		10.2	8.9						
14:00	10.0	8.7		10.2	8.9	<u>1.2</u>					
	10.7	9.4	3+00	10.3	9.0	5+00			7+00		
	11.5	10.2		10.2	8.9						
	11.3	10.0		10.0	8.7						
	12.0	10.7		10.0	8.7						
+50	12.3	11.0		9.7	8.4						
	12.8	11.5	+50	9.0	7.7	+50			+50		
	13.0	11.7		9.2	7.9						
	13.0	11.7		9.1	7.8						

STA W160 +00 CONT NORTH

Sound 23

DIST SOUND ELEV DIST SOUND elev

STA W161 +00; 0+00-N 6090, NORTH

DIST	SOUND	ELEV	DIST	SOUND	elev
	10.8	9.4		10.2	8.8
	10.4	9.0		10.4	9.0
8+00	10.5	9.1	10+00	10.2	8.4
	10.5	9.1		10.5	9.1
	10.7	9.3		10.0	8.6
	10.9	9.5		9.3	7.9
	11.0	9.6		8.9	7.5
+50	11.2	9.8	+50	7.1	5.7
	11.3	9.9		6.2	4.8
	11.3	9.9		3.6	2.2
	11.9	10.5		2.7	1.3
	12.0	10.6		2.5	1.1
9+00	12.0	10.6	11+00	2.2	0.8
	12.0	10.6		2.2	0.8
	12.1	10.7		2.0	0.6
	12.3	10.9		2.0	0.6
	10.0	8.6		2.0	0.6
+50	9.9	8.5	+50	1.8	0.4
	10.0	8.6	12.02	2.0	0.6
	10.0	8.6		1.5	0.1

DIST	SOUND	ELEV	DIST	SOUND	ELEV
1120	0.0				
0+00	0.0				
	0.5		2+00	14.0	
	0.6			13.8	
	0.6			13.2	
	1.2			12.6	
+50	1.3		1125	12.0	
	1.8		+50	11.8	
	1.8			11.5	
	3.1			11.5	
	6.7			11.6	
1+00	8.9			11.5	
	10.5		3+00	11.4	
	12.8			11.4	
	12.5			11.0	
	13.0			11.2	
+50	13.9			11.2	
	14.6		+50	11.2	
	14.9			11.1	
	14.9			11.5	

STAW 161+00 CONT NORTH

DIST SOUND ELEV DIST SOUND ELEV

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	11.4				
	11.5				
4+00	11.5		6+00		
	11.4				
	11.0				
	10.5				
1:30	10.2				
+50			+50		
5+00			7+00		
+50					

VOID

Facing Page

PX

STAW 161+00; 0+00 = N 6090

SOUND 24
NORTH

DIST	SOUND	ELEV	DIST	SOUND	ELEV
1:40					
0+00	0.2	+2.6	(2.8)	15.2	12.4
			1:45		
(2.8)	1.0	+1.8	2+00	14.7	11.9
	1.2	+1.6		13.8	11.0
	1.2	+1.6		13.2	10.4
	1.5	+1.3		12.5	9.7
1:50	1.5	+1.3		12.3	9.5
	2.0	+0.8	+50	12.0	9.2
	2.2	+0.6		11.7	8.9
	3.8	1.0		11.8	9.0
	8.1	5.3		11.5	8.7
1+00	9.5	6.7		11.7	8.9
	11.4	8.6	3+00	11.8	9.0
	12.5	9.7		11.8	9.0
	13.9	11.1		11.8	9.0
	14.0	11.2		11.9	9.1
+50	14.7	11.9		11.8	9.0
	15.0	12.2	+50	11.4	8.6
	15.3	12.5		11.1	8.3
	15.4	12.6		12.0	9.2

STAW/6100 cont North

DIST	SOUND	ELEV	DIST	SOUND	ELEV
PX	12.2	9.4		14.0	11.1
	12.4	9.6		14.1	11.2
4+00	12.2	9.4	6+00	14.0	11.1
	11.9	9.1		13.9	11.0
	11.9	9.1		13.9	11.0
	11.7	8.9		13.8	10.9
	11.8	9.0		13.8	10.9
750	11.3	8.5	750	13.2	10.7
	11.5	8.7		13.9	11.0
	11.3	8.5		13.6	10.7
	14.9	12.1		13.4	10.5
	15.8	13.0		13.2	10.3
5+00	15.4	12.6	7+00	13.4	10.5
	14.8	12.0		13.5	10.6
	14.2	11.4		14.0	11.1
(2.9)	13.8	10.9		12.8	9.9
1:50	13.4	10.5		12.2	9.3
+50	13.6	10.7	+50	12.0	9.1
	13.8	10.9		11.9	9.0
	13.3	10.4		11.5	8.6

STAW/6100 cont North 125

DIST	SOUND	ELEV	DIST	SOUND	ELEV	
	12.0	9.1		10.9	7.9	
	12.3	9.4		10.9	7.9	
8+00	12.1	9.2	10+00	11.2	8.2	
	12.1	9.2		11.4	8.4	
	12.2	9.3		12.0	9.0	
	12.2	9.3		12.2	9.2	
(3.0)	12.2	9.2		12.8	9.8	
1:55	+50	13.0	10.0	+50	13.0	10.0
	13.0	10.0		13.0	10.0	
	13.0	10.0		12.9	9.9	
	12.9	9.9		12.0	9.0	
	12.5	9.5		11.0	8.0	
9+00	12.1	9.1	11+00	9.7	6.7	
	12.1	9.1		8.1	5.1	
	11.9	8.9		5.1	2.1	
	11.7	8.7		4.1	1.1	
	11.8	8.8		4.0	1.0	
+50	11.2	8.2	+50	4.0	1.0	
	11.0	8.0		3.8	0.8	
	11.2	8.2		3.7	0.7	

STA W 161+00 Cont North

DIST Sound ELEV

3.7 0.7

3.7 0.7

12+00 3.7 0.7

3.7 0.7

3.2 0.2

3.5 0.5

2.5 +0.6

(3.1)

2:00

+50

TPX 5-27-59

STA W 162+00; 0+00=N 6090.0

Sound North

DIST Sound ELEV DIST Sound ELEV

2:10

0+00 0.5 +2.7

12.9 9.7

(3.2)

2.1 +1.1 2+00 12.7 9.5

2.6 +0.6 12.9 9.7

3.1 +0.1 11.8 8.6

5.1 1.9 11.8 8.6

+50 8.2 5.0 11.0 7.8

9.1 5.9 +50 11.0 7.8

10.2 7.0 12.4 9.2

12.9 9.7 12.2 9.0

13.2 10.0 12.1 8.9

14+00 14.2 11.0 (3.3) 11.9 8.6

15.0 11.8 2:15 3+00 12.2 8.9

15.0 11.8 12.1 8.8

15.0 11.8 11.4 8.2

15.0 11.8 11.0 7.7

+50 15.0 11.8 10.9 7.6

14.2 11.0 +50 11.1 7.8

13.9 10.7 10.9 7.6

13.1 9.9 12.1 8.8

STATION 162+00 CONT NORTH

DIST	SOUND	ELEV	DIST	SOUND	ELEV
(3.3)	14.0	10.7		12.8	9.5
	14.1	10.8		12.8	9.5
4+00	15.2	11.9	6+00	13.0	9.3
	14.8	11.5		12.8	9.5
	14.7	11.4		12.7	9.4
	14.8	11.5		13.8	9.5
	15.0	11.7		12.8	9.5
+50	15.2	11.9	+50	12.8	9.5
	16.0	12.7		13.1	9.8
	15.8	12.5		13.5	10.2
	15.8	12.5		13.4	10.1
	15.2	11.9	(3.3)	13.5	10.1
			2:20	13.5	10.1
5+00	12.9	9.6	7+00	13.2	9.9
	13.0	9.3		13.3	10.0
	13.0	9.3		13.3	10.0
	13.0	9.3		13.5	10.2
	13.0	9.3		13.4	10.1
+50	12.9	9.6	+50	13.5	10.2
	12.8	9.5		13.8	10.5
	12.8	9.5		13.9	10.6

STATION 162+00 CONT NORTH B2

DIST	SOUND	ELEV	DIST	SOUND	ELEV
(3.3)	14.0	10.7		11.7	8.4
	13.1	9.8		11.5	8.2
8+00	12.2	8.9	10+00	11.5	8.2
	12.5	9.2		11.9	8.6
	12.2	8.9		11.7	8.4
	12.7	9.4		11.9	8.6
	12.8	9.5		11.7	8.4
+50	13.0	9.7	+50	11.5	8.2
	13.4	10.1		11.2	7.9
	13.0	9.7		11.1	7.8
	13.5	10.2		11.0	7.3
	13.1	9.8	(3.4)	10.8	7.4
			2:25	10.8	7.4
9+00	13.3	10.0	11+00	10.0	6.6
	13.7	10.4		8.1	4.7
	13.8	10.5		6.7	3.3
	13.5	10.2		4.8	1.4
	13.3	10.0		4.8	1.4
+50	13.9	10.6	+50	4.1	0.7
	13.9	10.6		4.1	0.7
	11.5	8.2		4.0	0.6

STA 162 +00 CONT NORTH

DIST Sound ELEV

(3.4) 4.0 0.6

2:26 4.0 0.6

12+00 4.0 0.6

3.8 0.4

check North 179 - show - wrong page 3

STA W 163 +00; 0+00 = N 60.10.0

128
Sound
North

DIST Sound ELEV DIST Sound ELEV

0+00 13.9 10.2

2:35 0.6 +2.9 24.00 13.5 9.8

(3.5) 3.0 +0.5 13.2 9.5

3.0 +0.5 12.2 9.5

3.0 +0.5 12.2 8.5

+50 3.1 +0.4 2:45 13.0 9.3

3.2 +0.3 +50 12.5 8.8

3.6 0.1 12.0 8.3

4.0 0.5 11.9 8.2

(3.7) 6.6 3.1 11.3 7.6

2:40
+50 9.9 6.2 10.7 7.0

11.9 8.2 3+00 10.8 7.1

13.2 9.5 11.0 7.3

14.2 10.5 11.2 7.5

14.9 11.2 13.5 9.8

+50 15.0 11.3 14.7 11.0

14.9 11.2 +50 14.7 11.0

14.5 10.8 14.5 10.8

14.1 10.4 14.2 10.5

STAW 163 + 00 CONT NORTH

DIST	SOUND	ELEV	DIST	SOUND	ELEV
(3.7)	14.0	10.3		11.0	7.2
	14.0	10.3		11.0	7.2
4+00	14.0	10.3	6+00	11.4	7.6
	13.8	10.1		12.1	8.3
	13.9	10.2		12.8	9.0
	14.0	10.3		13.2	9.4
	14.5	10.8	(3.8)	13.1	9.3
+50	14.5	10.8	2.55 +50	13.3	9.5
	15.0	11.3		13.3	9.5
	14.0	10.3		13.9	10.1
(3.8)	14.2	10.5		13.7	9.9
2.50 5+00	14.0	10.2		13.5	9.7
	14.4	10.6	7+00	13.7	9.9
	14.5	10.7		13.7	9.9
	14.2	10.4		13.7	9.9
	14.2	10.4		13.7	9.9
	14.0	10.2		13.9	10.1
+50	15.0	11.2	+50	13.8	10.0
	14.7	10.9		13.8	10.0
	11.1	7.3		13.8	10.0

STAW 163 + 00 CONT NORTH (29)

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	13.9	10.0		13.0	9.1
(3.9)	14.0	10.1	(3.9)	12.8	8.9
3+00	14.2	10.3	3.05 10+00	12.5	8.6
	14.0	10.1		12.6	8.7
	14.0	10.1		12.8	8.9
	14.0	10.1		13.0	9.1
	14.5	10.6		13.0	9.1
+50	15.1	11.2	+50	12.9	9.0
	15.4	11.5		12.5	8.6
	15.1	11.2		13.0	9.1
	15.1	11.2		12.9	9.0
	15.2	11.3		12.9	9.0
9+00	15.3	11.4	11+00	14.5	10.6
	15.2	11.3		14.6	10.7
	14.8	10.9		14.0	10.1
	12.7	8.8		12.5	8.6
	13.2	8.3		12.0	8.1
+50	12.4	8.5	+50	12.5	8.6
	12.4	8.5		12.4	8.5
	12.6	8.7		12.4	8.5

STA W 163+00 CONT NORTH

DIST SOUND ELEV

(4.0)	11.5	7.5
	10.0	6.0
12+00	8.0	4.0
	6.0	2.0
	5.0	1.0
	5.0	1.0
	4.8	0.8
+50	4.5	0.5
	4.4	0.4
(4.0)	4.0	0.0
	3.0	+1.0
3+10	2.5	+1.5
13+00	1.9	+2.1

6-1-59

STA W 164+00; 0+00=N 5980-

Sound⁽³⁰⁾
NORTH

DIST SOUND ELEV DIST SOUND ELEV

10:40 0					12.6	10.2
				2+00	11.9	9.5
					13.3	10.9
					13.2	10.8
10:40 (2.7)	2.8	0.4			13.0	10.6
+50	2.9	0.5	(2.4)	12.7	10.3	
	2.9	0.5	10:45 +50	12.4	10.0	
	2.9	0.5		12.1	9.7	
	3.1	0.7		12.4	10.0	
	5.6	3.2		12.3	9.9	
1+00	9.2	6.8		12.7	10.3	
	12.2	9.8	3+00	12.5	10.1	
	13.3	10.9		12.5	10.1	
	14.0	11.6		13.0	10.6	
	14.0	11.6		12.9	10.5	
+50	13.2	10.8		12.9	10.5	
	13.2	10.8	+50	13.0	10.6	
	12.9	10.5		13.0	10.6	
	12.6	10.2		13.0	10.6	

STAW 16400 CONT NORTH

STAW 16400 CONT NORTH

131

DIST	Sound	ELEV	DIST	Sound	ELEV
	13.3	10.9		14.9	12.5
	14.0	11.6		15.0	12.6
4+00	14.1	11.7	6+00	15.0	12.6
	14.0	11.6		15.0	12.6
	13.9	11.5		15.0	12.6
	13.7	11.3		15.0	12.6
	13.6	11.2		14.9	12.5
+50	13.9	11.5	+50	14.6	12.2
	13.9	11.5		14.3	11.9
	14.0	11.6		9.9	7.5
	14.1	11.7		10.8	8.4
	14.2	11.8	(2.3)	11.5	9.2
5+00	14.3	11.9	^{10:50} 7+00	11.9	9.6
	14.3	11.9		11.7	9.4
	14.5	12.1		11.8	9.5
	14.4	12.0		11.9	9.6
	14.3	11.9		12.0	9.7
+50	14.3	11.9	+50	12.3	10.0
	14.4	12.0		12.3	10.0
	14.9	12.5		12.3	10.0

DIST	Sound	elev	DIST	Sound	elev
	12.3	10.0		13.2	10.9
	12.2	9.9		12.4	10.1
8+00	12.1	9.8	10+00	11.8	9.5
	12.0	9.7		11.8	9.5
	12.0	9.7		11.3	9.0
	12.0	9.7		11.8	9.5
	12.1	9.8		11.8	9.5
+50	12.1	9.8	+50	11.9	9.6
	12.0	9.7		11.9	9.6
	11.9	9.6		11.9	9.6
	12.0	9.7		11.9	9.6
	11.8	9.5		11.9	9.6
9+00	12.0	9.7	11+00	11.9	9.6
	12.1	9.8		11.9	9.6
	12.0	9.7		11.7	9.4
	12.2	9.9		11.6	9.3
	12.2	9.9		11.6	9.3
+50	12.4	10.1	+50	11.5	9.2
	13.0	10.7		11.4	9.1
	13.2	10.9		11.3	9.0

STA W 164 to cont NORTH

DIST	Sound	ELEV	DIST	Sound	elev
	11.3	9.0			
	11.7	9.4			
12 +00	12.3	10.0			
	12.9	10.6			
	12.1	9.8			
(2.3)	10.3	8.0			
10:55	7.6	5.3			
+50	7.7	5.4			
	6.5	4.2			
	5.0	2.7			
	3.4	1.1			
	3.0	0.7			
13+00	2.8	0.5			
	2.5	0.2			
	2.5	0.2			
	2.1	+0.2			
(2.3)	1.8	+0.5			
+50	1.3	+1.0			
10:58	0.5	+1.8			

Sound 32

STA W 165 to; 0+00 = N 5970 NORTH

DIST	Sound	ELEV	DIST	Sound	ELEV
0				13.9	11.7
			2+00	13.5	11.3
				13.0	10.8
(2.2)				12.8	10.6
11:05	4.6	2.4		12.2	10.0
+50	3.5	1.3		12.2	10.0
	3.2	1.0	+50	12.1	9.9
	6.0	3.8		12.0	9.8
	9.0	6.8		12.1	9.9
	11.8	9.6		12.2	10.0
1+00	16.0	13.8		12.0	9.8
	16.0	13.8	3+00	12.2	10.0
	15.5	13.3		12.1	9.9
	15.0	12.8		12.0	9.8
(2.2)				12.3	10.1
11:10	14.2	12.0		12.4	10.2
+50	14.0	11.8		12.5	10.3
	14.2	12.0	+50	12.5	10.3
	13.8	11.6		12.8	10.6
	13.3	11.1		12.8	10.6

STAV 165400 CONT NORTH

DIST	Sound	ELEV	DIST	Sound	elev
	12.9	10.7		13.0	10.8
	12.9	10.7		13.0	10.8
4+00	13.1	10.9	6+00	12.9	10.7
	13.4	11.2		12.8	10.6
	13.5	11.3		13.0	10.8
	13.6	11.4		12.4	10.2
	13.4	11.2		12.2	10.0
+50	13.0	10.8	+50	12.1	9.9
	12.8	10.6		12.1	9.9
	13.1	10.9		12.5	10.3
	13.1	10.9		12.2	10.0
	13.3	11.1		12.1	9.9
5+00	13.5	11.3	7+00	12.2	10.0
	12.9	10.7		12.1	9.9
	12.8	10.6		12.3	10.1
	12.4	10.2		12.1	9.9
(2.2)	12.5	10.3		12.0	9.8
11:15	12.6	10.4	+50	12.1	9.9
+50	12.8	10.6		10.9	8.7
	12.9	10.7		11.0	8.8

STAV 165400 CONT NORTH 133

DIST	Sound	ELEV	DIST	Sound	elev
	10.9	8.7		12.2	10.1
(2.1)	10.8	8.7		12.7	10.6
11:20	11.0	8.9	8+00	11.0	8.9
10+00	11.1	9.0		13.4	11.3
	10.5	8.4		13.1	11.0
	10.8	8.7		12.7	10.6
	10.5	8.4		11.3	9.2
+50	10.8	8.7	+50	11.0	8.9
	10.7	8.6		11.8	9.7
	10.8	8.7		11.9	9.8
	10.7	8.6		11.2	9.1
	10.8	8.7	(2.0)	11.8	9.7
	10.9	8.8	11:25	11+00	11.4
9+00	11.1	9.0		11.5	9.5
	10.9	8.8		11.5	9.5
	10.9	8.8		11.7	9.7
	11.3	9.2	(2.0)	11.3	9.3
	11.6	9.5	11:30	+50	11.4
+50	12.0	9.9		11.2	9.2
	12.0	9.9		11.8	9.6

STAW 165 +00 CNT NORTH

DIST	Sound	elev	DIST	Sound	elev
	11.3	9.3		1.9	+0.1
	11.5	9.5	(1.9)	1.5	+0.4
12+00-	11.3	9.3	14+00	1.3	+0.6
	11.4	9.4	11:35	0.9	+1.0
	11.3	9.3		0.5	+1.4
	11.2	9.2			
	11.7	9.7			
+50	11.8	9.8			
	12.0	10.0			
	12.0	10.0			
	10.2	8.2			
	8.0	6.0			
13+00	8.3	6.3			
	7.8	5.8			
	6.8	4.8			
	5.4	3.4			
	4.4	2.4			
+50	3.0	1.0			
	2.8	0.8			
	2.2	0.2			

PX 6-1-59

STAW 166 +00; 0+00 = N5950- NORTH

DIST	Sound	ELEV	DIST	Sound	elev
0+00				14.5	12.8
			2+00	14.4	12.7
				13.9	12.2
				13.4	11.7
11:05	3.1	1.4		13.6	11.9
+50	4.0	2.3		14.1	12.4
	3.6	1.9	+50	14.4	12.7
	5.3	3.6		14.0	12.3
	9.5	7.8		14.3	12.6
	11.0	9.3		14.2	12.5
1+00	16.0	14.3		14.0	12.3
	16.6	14.9	3+00	14.0	12.3
	16.1	14.4		13.6	11.9
	15.0	13.3		13.6	11.9
	15.0	13.3		13.3	11.6
+50	14.5	12.8		13.2	11.5
	14.4	12.7	+50	13.2	11.5
	14.6	12.9		12.9	11.2
	14.5	12.8		12.4	10.7

Sound 34

STATION 166+00 Cont North

DIST	Sound	ELEV	DIST	Sound	elev
	11.9	10.2		13.7	12.0
	11.8	10.1		12.7	11.0
4+00	11.7	10.0	6+00	12.3	10.6
	11.3	9.6		11.9	10.2
	11.0	9.3		11.2	9.5
(T.T)	11.0	9.3		11.3	9.6
1:10	11.0	9.3		12.0	10.3
+50	11.2	9.5	+50	11.9	10.2
	11.2	9.5		11.8	10.1
	11.2	9.5		11.9	10.2
	11.3	9.6		11.7	10.0
	12.0	10.3		11.7	10.0
5+00	12.2	10.5	7+00	11.8	10.1
	12.2	10.5		11.6	9.9
	12.3	10.6		11.5	9.8
	13.0	11.3		12.0	10.3
	12.9	11.2		12.0	10.3
+50	13.0	11.3	+50	12.0	10.3
	13.0	11.3		12.0	10.3
	13.2	11.5		12.1	10.4

STATION 166+00 Cont North 135

DIST	Sound	ELEV	DIST	Sound	ELEV
	12.1	10.4		11.3	9.6
	12.1	10.4		11.8	10.1
8+00	12.1	10.4	10+00	12.3	10.6
	12.0	10.3		12.8	11.1
	11.8	10.1		13.1	11.4
(17)	11.0	9.3		13.1	11.4
1:15	10.5	8.8		13.1	11.4
+50	10.1	8.4	+50	13.1	11.4
	10.0	8.3		13.3	11.6
	10.1	8.4		13.5	11.8
	10.4	8.7		11.0	9.3
	10.5	8.8		11.2	9.5
9+00	10.7	9.0	11+00	11.2	9.5
	10.9	9.2		11.2	9.5
	11.0	9.3		11.2	9.5
	11.1	9.4		11.0	9.3
	11.1	9.4		11.0	9.3
+50	11.1	9.4	+50	11.1	9.4
	11.1	9.4		11.2	9.5
	11.8	10.1		11.1	9.4

STA W166+00, Cont NORTH

DIST	Sound	ELEV	DIST	Sound	ELEV
	11.1	9.4		8.1	6.3
	11.0	9.3		8.1	6.3
12+00	10.9	9.2	14+00	9.1	7.3
	10.7	9.0		9.0	7.2
	10.6	8.9		9.0	7.2
	10.5	8.8		8.9	7.1
	10.4	8.7		7.9	6.1
+50	10.3	8.6	+50	7.8	6.0
	10.3	8.6		7.0	5.2
	10.7	9.0		5.9	4.1
	10.8	9.1		5.1	3.3
(1.8)	10.5	8.7		4.2	2.4
1.20	10.4	8.6	15+00	2.5	0.7
13+00	10.4	8.6		2.0	0.2
	10.5	8.7		2.0	0.2
	10.6	8.8		1.3	+0.5
	8.3	6.5		1.5	+0.3
+50	8.0	6.2	+50	1.5	+0.3
	8.0	6.2		1.2	+0.6
	8.1	6.3		1.0	+0.8

PX

STA N61+00; 0+00=W16600						36 Sound West
DIST	Sound	ELEV	DIST	Sound	ELEV	
	15.3	12.8		21.0	18.5	
3100						
D+00						
(2.5)	15.5	13.0	2+00	21.0	18.5	
	15.7	13.2		21.0	18.5	
2:50						
D+30	15.9	13.4		20.6	18.1	
(2.5)	15.9	13.4		20.7	18.2	
+50	17.0	14.5	(2.5)	20.8	18.3	
	17.5	15.0	2:55	20.8	18.3	
	17.9	15.4	+50	19.9	17.4	
	18.0	15.5		19.2	16.7	
	18.0	15.5		15.9	13.4	
	18.0	15.5		13.0	10.5	
1+00	18.2	15.7		11.4	8.9	
	18.5	16.0	3+00	11.2	8.7	
	19.1	16.6		10.7	8.2	
	19.7	17.2		13.2	10.7	
	20.1	17.6				
+50	20.2	17.7				
	21.0	18.5	+50			
	21.0	18.5				
	21.0	18.5				

PK
 STA N 60 + 00; 0 + 00 = W 16600 - West
 Sound

DIST	Sound	ELEV	DIST	Sound	elev
3:00 0 + 00	5.0	2.5	(2.6)	14.4	11.9
(2.5)	4.1	1.6	3:05	14.8	12.3
	4.0	1.5	2 + 00		
	5.1	2.6			
	5.6	3.1			
	6.2	3.7			
+ 50	6.8	4.3			
	7.8	5.3	+ 50		
	8.0	5.5			
	8.7	6.2			
1 + 00	9.8	7.3			
1 + 00	10.5	8.0			
	11.1	8.6	3 + 00		
	11.3	8.8			
	12.3	9.8			
50	14.1	11.6			
+ 50	14.1	11.6			
	14.0	11.5	+ 50		
	14.3	11.8			

PK 6-1-59
 STA N 62 + 00; 0 + 00 = W 16600 - West
 Sound 37

DIST	Sound	ELEV	DIST	Sound	ELEV
3:10 0 + 00	15.0	12.3		19.0	16.3
(2.7)	15.0	12.3	2 + 00	19.4	16.7
	15.3	12.6		19.0	16.3
	15.2	12.5		19.0	16.3
	15.1	12.4		18.8	16.1
+ 50	15.3	12.6		18.5	15.8
	15.0	12.3	+ 50	18.0	15.3
	15.5	12.8		18.0	15.3
	15.7	13.0		17.3	14.6
(2.7)	15.8	13.1	(2.8)	17.4	14.7
3:15 1 + 00	16.2	13.5	3:20	17.0	14.2
	17.1	14.4	3 + 00	17.0	14.2
	17.3	14.6		16.9	14.1
	17.3	14.6		16.7	13.9
	17.5	14.8		16.7	13.9
+ 50	17.9	15.1		17.3	14.5
	18.1	15.4	+ 50	17.7	14.9
	18.0	15.3		18.0	15.2
	18.3	15.6		18.9	16.1

STAN 62+00 East West

DIST Sound elev

PX

19.2 16.4

18.0 15.2

4+00 16.2 13.4

(28) 12.4 9.6

3:23 12.3 9.5

13.0 10.2

+50

6-2-59.

STAN 63+00; 0+00-W 16 600-

³⁸
Sound
West

DIST Sound elev DIST SOUND ELEV

1:10

0+00

(1.9)

12.9 11.0 16.4 14.5

12.9 11.0 2+00 16.1 14.2

14.0 12.1 16.1 14.2

14.3 12.4 16.3 14.4

14.9 13.0 16.3 14.4

+50 15.2 13.3 16.3 14.4

15.1 13.2 +50 16.3 14.4

15.2 13.3 16.3 14.4

15.4 13.5 16.7 14.8

15.2 13.3 16.6 14.7

1+00 15.3 13.4 16.8 14.9

15.4 13.5 3+00 16.8 14.9

15.4 13.5 16.6 14.7

15.1 13.2 16.6 14.7

15.7 13.8 16.1 14.2

+50 15.5 13.6 16.8 14.9

15.8 13.9 +50 17.4 15.5

15.8 13.9 17.3 15.4

16.2 14.3 16.2 14.3

STA N63+00 CONT WEST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
------	-------	------	------	-------	------

PX	16.2	14.3			
	16.3	14.4			
4+00	19.0	17.1	6+00		
	19.3	17.4			
	19.7	17.8			
	19.8	17.9			
	19.0	17.1			
+50	18.3	16.4			
	18.6	16.7			
	18.9	17.0			
	19.0	17.1			
	19.0	17.1			
5+00	19.0	17.1			
	19.0	17.1			
	19.0	17.1			
(1.9)	17.2	15.3			
1.15	15.5	13.6			
+50	13.1	11.2			
	14.5	12.6			

PX

39
Sound
West

STA N64+00; 0+00=W16600-

DIST	SOUND	ELEV	DIST	SOUND	ELEV
------	-------	------	------	-------	------

11/20 0+00	11.2	9.4		13.6	11.8
(1.8)	11.1	9.3	2+00	14.2	12.4
	11.1	9.3		14.1	12.3
	11.1	9.3		14.1	12.3
	10.8	9.0		14.1	12.3
+50	10.7	8.9		14.5	12.7
	10.7	8.9	+50	15.0	13.2
	11.0	9.2		15.3	13.5
	11.1	9.3		15.1	13.3
	11.1	9.3		15.2	13.4
1+00	11.2	9.4		15.4	13.6
	11.1	9.3	3+00	15.5	13.7
	11.1	9.3		15.6	13.8
	11.1	9.3		15.8	14.0
	13.0	11.2		15.7	13.9
+50	13.3	11.5	(1.8)	16.1	14.3
	13.8	12.0	11/20 +50	16.5	14.7
	15.2	13.4		17.3	15.5
	13.6	11.8		17.6	15.8

STAN 64+00 CONT WEST

DIST	Sound	ELEV	DIST	Sound	ELEV
PX	17.2	15.4		20.3	18.5
	16.6	14.8		21.3	19.5
4+00	16.3	14.5	6+00	21.3	19.5
	16.1	14.3		21.8	20.0
	16.2	14.4		22.7	20.9
	16.6	14.8		22.7	20.9
	16.7	14.9		23.1	21.3
+50	17.0	15.2	+50	23.1	21.3
	17.1	15.3		23.0	21.2
	17.8	16.0		22.8	21.0
	18.2	16.4	(1.8)	21.1	19.3
	18.9	17.1	1:30	22.4	20.6
5+00	19.0	17.2	7+00		
	19.8	18.0			
	19.6	17.8			
	20.0	18.2			
	19.8	18.0			
4+50	21.2	19.4			
	21.3	19.5			
	21.6	19.8			

PX
STAN 65+00; 0+00 = W/6600-

DIST	Sound	ELEV	DIST	Sound	ELEV
1:35 0+00	13.5	11.6		11.8	9.9
(1.9)	13.3	11.4	2+00	13.2	11.3
	13.1	11.2		13.5	11.6
	13.0	11.1		13.3	11.4
	13.0	11.1		13.4	11.5
+50	12.6	10.7	(1.9) 1:40	13.3	11.4
	13.1	11.2	+50	16.5	14.6
	12.1	10.2		16.9	15.0
	12.1	10.2		17.1	15.2
	11.8	9.9		17.1	15.2
1+00	11.6	9.7		16.6	14.7
	11.6	9.7	3+00	16.1	14.2
	11.2	9.3		15.3	13.4
	11.0	9.1		15.4	13.5
	11.2	9.3		15.5	13.6
+50	11.2	9.3		15.9	14.0
	11.2	9.3	+50	15.9	14.0
	11.3	9.4		16.0	14.1
	11.3	9.4		16.2	14.3

40
Sound
West

STAN 65+00 CONT WEST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
	16.4	14.5		20.2	18.3
	16.9	15.0	(1.9)	21.5	19.6
4+00	16.9	15.0	^{11.45} 6+00	22.0	20.1
	17.0	15.1		21.3	19.4
	17.0	15.1		20.8	18.9
	17.1	15.2		21.3	19.4
	17.1	15.2		21.1	19.2
+50	17.0	15.1	+50	21.0	19.1
	16.9	15.0		21.0	19.1
	16.7	14.8		21.0	19.1
	16.7	14.8		21.0	19.1
	16.7	14.8		21.9	20.0
5+00	16.6	14.7	7+00	21.8	19.9
	16.8	14.9		21.6	19.7
	16.5	14.6		21.9	20.0
	16.4	14.5		21.8	19.9
	16.5	14.6	(1.9)	21.7	19.8
			^{11.48}		
+50	16.9	15.0	+50	22.2	20.3
	16.6	14.7		23.2	21.3
				23.9	22.0
				23.0	21.1
	19.5	17.6		20.1	18.2

6-2-59

STAN 66+00; 0+00 = W16600-

11.55

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0+00	11.7	9.8		10.0	8.1
(1.9)	12.0	10.1	2+00	10.0	8.1
	11.7	9.8		11.5	9.6
	11.1	9.2		12.1	10.2
	12.0	10.1		12.1	10.2
+50	13.2	11.3		12.2	10.3
	13.3	11.4	+50	12.2	10.3
	13.0	11.1		12.3	10.4
	13.2	11.3		12.3	10.4
	13.0	11.1		12.3	10.4
1+00	12.1	10.2	(2.0)	12.4	10.5
	11.9	10.0	^{21.00} 3+00	12.9	10.9
	11.9	10.0		12.9	10.9
	11.9	10.0		13.0	11.0
	11.9	10.0		13.2	11.2
+50	11.8	9.9		13.5	11.5
	11.8	9.9	+50	13.8	11.5
	11.8	9.9		13.2	11.2
	11.0	9.1		13.6	11.6

STAN 66+00 cont WEST
 6-2-59
 DIST Sound ELEV

PV	14.0	12.0		18.3	16.3
	14.0	12.0		18.0	16.0
4+00	14.1	12.1	6+00	18.0	16.0
	14.8	12.8		18.0	16.0
	15.0	13.0		17.9	15.9
	15.0	13.0		17.4	15.4
	15.8	13.8		17.4	15.4
+50	15.7	13.7	+50	17.7	15.7
(2.0)	16.0	14.0		17.6	15.6
	16.5	14.5		17.8	15.8
	17.7	15.7		17.7	15.7
	17.0	15.0	(2.0)	17.6	15.6
5+00	17.7	15.7	7+00	17.6	15.6
	17.7	15.7		18.4	16.4
	18.1	16.1		18.9	16.9
	18.2	16.2		18.5	16.5
	18.7	16.7		18.4	16.4
+50	20.0	18.0	+50	18.2	16.2
	19.8	17.8		19.0	17.0
	18.9	16.9		19.4	17.4

STAN 66+00 cont WEST 42
 DIST Sound elev PX

	19.3	17.3			
(2.0)	19.0	17.0			
8+00	18.9	16.9			
	18.4	16.4			
	18.0	16.0			
	16.5	14.5			
	13.4	11.4			
+50	10.4	8.4			
	9.0	7.0			
	8.8	6.8			
(2.0)	7.0	5.0			
9+00					

6-3-59
 Resound ELY FROM VENTURA

Sound EAST

STAN 67400 CONT EAST

43

STAN 67400; 0+00 = 117480.0

DIST Sound elev DIST Sound elev

DIST	Sound	ELEV	DIST	Sound	ELEV	DIST	Sound	ELEV	DIST	Sound	ELEV	
				15.8	12.0		14.0	10.2				
0+00				17.2	13.4		14.3	10.5		12.9	9.1	
(3.8)			2+00	17.0	13.2	4+00	14.6	10.8	6+00	13.0	9.2	
9:45				16.8	13.0		14.2	10.4		12.4	8.6	
	8.3	4.5		16.7	12.9		14.1	10.3		11.5	7.7	
	12.7	8.9		16.3	12.5		13.9	10.1		11.6	7.8	
+50	13.8	10.0		16.0	12.2		14.3	10.5		11.6	7.8	
	15.5	11.7	+50	15.9	12.1	+50	14.2	10.4	+50	15.5	11.7	
	16.1	12.3		16.1	12.3		12.9	9.1		15.6	11.8	
	16.8	13.0		15.9	12.1		12.8	9.0		13.5	9.7	
	18.0	14.2		16.1	12.3		14.1	10.3		13.7	9.9	
1+00	18.3	14.5		16.0	12.2		14.6	10.8	(3.8)	13.1	9.3	
	17.4	13.6	3+00	16.0	12.2	5+00	15.3	11.5	9:55	7+00	13.3	9.5
	18.0	14.2		16.2	12.4		15.5	11.7		13.3	9.5	
	17.4	13.6		16.2	12.4		15.4	11.6		13.3	9.5	
	17.2	13.4	(3.8)	16.3	12.5		15.1	11.3		13.2	9.4	
+50	18.0	14.2	9:50	16.7	12.9		14.2	10.4		12.8	9.0	
	17.6	13.8	+50	16.9	13.1	+50	14.0	10.2	+50	12.9	9.1	
	17.9	14.1		17.0	13.2		14.1	10.3		13.9	10.1	
	17.5	13.7		17.0	13.2		14.5	10.7		12.8	9.0	

STAN 67 +00 CONT EAST

DIST	Sound	elev	DIST	Sound	elev
PX	12.7	8.9			
	12.7	8.9			
8 +00	12.8	9.0			
	13.6	9.8			
	13.6	9.8			
	14.3	10.5			
	14.7	10.9			
+50	14.8	11.0			
	14.3	10.5			
	14.0	10.2			
(3.8)	14.0	10.2			
9:57	13.8	10.0			
9+00	14.1	10.3			

PX 6-3-59

Sound EAST

STAN 68 +00; 0+00 = W 17440-			DIST	Sound	elev
			0+00	14.2	10.5
			2+00	14.6	10.9
				14.7	11.0
10:10	3.9	0.2		14.9	11.2
(3.7)	4.1	0.4		15.1	11.4
+50	4.1	0.4		15.2	11.5
	4.6	0.9	+50	15.6	11.9
	6.2	2.5		16.0	12.3
	10.6	6.9		16.1	12.4
	13.7	10.0		16.6	12.9
1+00	15.4	11.7		16.3	12.6
	15.2	11.5	3+00	16.4	12.7
	13.3	9.6		16.7	13.0
	13.3	9.6		17.1	13.4
	13.6	9.9		17.0	13.3
+50	13.4	9.7		17.1	13.4
	13.5	9.8	+50	17.6	13.9
	13.9	10.2		17.9	14.2
	14.0	10.3		17.5	13.8

STAN 68+00 CONT EAST

DIST	Sound	elev	DIST	Sound	elev
	16.8	13.1		14.7	11.0
	13.9	10.2	(3.7)	14.0	10.3
4+00	13.6	9.9	10:15 6+00	13.6	9.9
	13.3	9.6		13.2	9.5
	13.1	9.4		12.8	9.1
	12.2	8.5		11.7	8.0
	12.2	8.5		13.9	10.2
+50	13.1	9.4	+50	13.5	9.8
	14.1	10.4		13.3	9.6
	14.3	10.6		13.2	9.5
	14.5	10.8		13.1	9.4
	14.2	10.5		13.1	9.4
5+00	14.7	11.0	7+00	13.6	9.9
	15.0	11.3		13.3	9.6
	15.0	11.3		13.7	10.0
	14.0	10.3		13.7	10.0
	15.0	11.3		14.1	10.4
+50	15.3	11.6	+50	14.1	10.4
	14.9	11.2		14.5	10.8
	15.0	11.3		14.9	11.2

STAN 68+00 CONT EAST

44

DIST	Sound	elev
	14.7	11.0
	12.6	8.9
8+00	12.5	8.8
	12.6	8.9
	12.4	8.7
(3.7)	12.5	8.8
10:20	12.5	8.8
+50	12.6	8.9

6-3-59

STAN 69+00; 0+00 = W 17410- EAST

Sound
EASTSTAN 69+00 CONT EAST 45
DIST Sound elev DIST Sound elev

DIST	Sound	elev	DIST	Sound	elev
0+00			(3.6)	14.1	10.5
			10:30		
			2+00	14.3	10.7
(3.7)				14.5	10.9
10:25	2.0	+1.7		14.9	11.3
	3.9	0.2		15.4	11.8
+50	4.0	0.3		15.5	11.9
	4.0	0.3	+50	15.6	12.0
	4.0	0.3		15.7	12.1
	9.3	5.6		15.8	12.2
	12.8	9.1		15.5	11.9
1+00	13.0	9.3		15.5	11.9
	13.1	9.4	3+00	15.5	11.9
	12.9	9.2		15.5	11.9
	13.1	9.4		15.5	11.9
	12.3	8.6		15.6	12.0
+50	13.0	9.3		15.8	12.2
	13.0	9.3	+50	15.5	11.9
	13.5	9.8		14.9	11.3
	13.8	10.1		13.0	9.4

DIST	Sound	elev	DIST	Sound	elev
	12.2	8.6		13.2	9.6
	11.5	7.9		13.1	9.5
4+00	11.5	7.9	6+00	13.0	9.4
	10.4	6.8		13.0	9.4
	10.0	6.4		13.1	9.5
	11.1	7.5		13.1	9.5
(3.6)				13.3	9.7
10:35				13.3	9.7
+50	11.3	7.7	+50	13.2	9.6
	11.0	7.4		13.1	9.5
	11.5	7.9		13.1	9.5
	13.1	9.5		13.3	9.7
	13.3	9.7		13.4	9.8
	13.1	9.5		13.5	9.9
5+00	13.3	9.7	7+00	13.8	10.2
	13.4	9.8		14.3	10.7
	13.4	9.8		14.5	10.9
	13.4	9.8		14.3	10.7
	13.4	9.8		14.2	10.6
+50	13.3	9.7	+50	14.1	10.5
	13.2	9.6		14.2	10.6
	13.3	9.7		14.0	10.4

STAN 69 +00 cont EAST

DIST	Sound	elev
PX	13.9	10.3
	14.1	10.5
8 +00	14.0	10.4
	14.0	10.4
	13.6	10.0
(3.5)	13.5	10.0
10:40	13.9	10.4
+50	13.8	10.3

6-3-59

STAN 70 +00; 0+00 = W 17410.

Sound (46)
EAST

DIST	Sound	ELEV	DIST	Sound	elev
0+00	PX		(3.4)	10:50	15.0 11.6
(3.5)			2+00	15.9	12.5
	10:47			16.2	12.8
	3.4	+0.1		16.4	13.0
	3.4	+0.1		15.9	12.5
+50	2.8	+0.7		15.5	12.1
	2.9	+0.6	+50	15.5	12.1
	3.9	0.4		14.7	11.3
	3.0	+0.5		14.5	11.1
	3.0	+0.5		14.0	10.6
1+00	3.0	+0.5		13.8	10.4
	7.0	3.5	3+00	13.9	10.5
	9.4	5.9		13.8	10.4
	11.1	7.6		13.3	9.9
	12.2	8.7		14.0	10.6
+50	12.2	8.7		14.0	10.6
	12.6	9.1	+50	13.1	9.7
	13.3	9.8		13.1	9.7
(3.4)	13.8	10.3		13.0	9.6

STA N70+00 CONT EAST

DIST	Sound elev	DIST	Sound elev
(3.4)	13.0 9.6		12.5 9.1
	12.9 9.5	(3.3)	12.8 9.4
4+00	12.8 9.4	10:55 6+00	13.3 9.9
	12.8 9.4		13.6 10.2
	12.3 8.9		13.9 10.5
	12.1 8.7		13.8 10.4
	12.0 8.6		14.0 10.6
+50	12.5 9.1	+50	14.1 10.7
	12.0 8.6		14.6 11.2
	13.2 9.8		15.1 11.7
	13.4 10.0		14.3 10.9
	13.5 10.1		11.8 8.4
5+00	13.0 9.6	7+00	11.8 8.4
	13.0 9.6		12.0 8.6
	12.8 9.4		12.0 8.6
	12.9 9.5		12.0 8.6
	12.8 9.4		12.0 8.6
+50	12.8 9.4	+50	12.0 8.6
	12.8 9.4		12.2 8.8
	12.8 9.4		12.2 8.8

STA N70+00 CONT EAST

42

DIST	Sound elev
	12.2 8.8
(3.3)	12.3 8.0
8+00	12.3 8.0
	12.5 9.2
	12.8 9.5
	13.1 9.8
(3.3)	12.8 9.5
+50	12.5 9.2

6-3-59

STAN 71+00; 0+00=W17410-

Sound
FAST

DIST	Sound elev	DIST	Sound elev
0+00		15.9	12.7
		2+00	15.9 12.7
11:05	1.1 +2.1	15.5	12.3
(3.2)	1.6 +1.6	15.3	12.1
	2.2 +1.0	15.0	11.8
+50	2.5 +0.7	14.7	11.5
	2.8 +0.6	+50 14.8	11.6
	2.8 +0.6	14.9	11.7
	2.9 +0.3	14.7	11.5
(3.2)	3.0 +0.2	13.9	10.7
11:10		13.9	10.7
1+00	3.2 0.0	14.0	10.8
	4.1 0.9	3+00 14.0	10.8
	6.1 2.9	14.0	10.8
	7.0 3.8	13.8	10.6
	9.0 5.8	14.1	10.9
+50	12.8 9.6	13.3	10.1
	14.2 11.0	+50 13.3	10.1
	15.5 12.3	13.0	9.8
	15.6 12.4	13.1	9.9

STAN 71+00 CONT EAST 48

DIST	Sound elev	DIST	Sound elev
	13.1 9.9	(3.1)	12.2 9.1
	11.9 8.7		12.8 9.7
4+00	12.3 9.1	6+00	13.2 10.1
	12.3 9.1		12.3 9.2
	12.4 9.2		13.5 10.4
	12.4 9.2		13.5 10.4
	12.2 9.0		13.6 10.5
+50	12.1 8.9	+50	13.9 10.8
	12.0 8.8		14.2 11.1
	11.2 8.0		14.8 11.7
	13.2 10.0		13.0 9.9
(3.1)	13.2 10.1		11.8 8.7
11:15		5+00	12.8 9.7
	12.3 9.2	7+00	11.3 8.2
	12.7 9.6		11.6 8.5
	12.7 9.6		12.8 9.7
	12.5 9.4		12.9 9.8
+50	12.3 9.2	+50	11.9 8.8
	12.3 9.2	+50	12.0 8.9
	12.3 9.2		12.0 8.9
	12.2 9.1		12.1 9.0

STAN 71+00 CONT EAST

DIST	Sound	elev
(3.1)	12.2	9.1
	12.3	9.2
8+00	12.3	9.2
	12.9	9.8
	12.8	9.7
(3.1)	12.7	9.6
11:20	12.5	9.4
+50	12.7	9.6

SOUND AFTER DREDGING IN
 REMEDIAL AREA - WLY TIERRA DEL FUEGO
 6-3-89
 STAN 159+00; 0+00-N 7430 -
 SOUND SOUTH

DIST	Sound	ELEV	DIST	Sound	elev
0+00				3.2	1.0
			2+00	4.9	2.7
				6.2	4.0
(2.2)				8.0	5.8
2:15				8.6	6.4
+50	1.3	+0.9		9.3	7.1
	1.6	+0.6	+50	10.1	7.9
	2.0	+0.2		10.1	7.9
	2.0	+0.2		10.8	8.6
	2.1	+0.1		11.3	9.1
1+00	2.1	+0.1	(2.2)	11.7	9.5
	2.7	0.5	2:20		
			3+00	11.9	9.7
	2.2	0.0		11.8	9.6
	2.5	0.3		11.8	9.6
	2.5	0.3			
+50	2.7	0.5			
	2.7	0.5			
	2.7	0.5			
	3.1	0.9			

6-3-59

Sound
South

STAW 160 +00; 0 +00 = N 7360

DIST	Sound	elev	DIST	Sound	elev
0 +00				10.5	8.3
(2.2)			2 +00	11.2	9.0
2.25	1.4	+0.8		11.8	9.6
	2.0	+0.2		11.8	9.6
	2.3	0.1	(2.2)	10.9	8.7
+50	2.4	0.2	2;30	10.6	8.4
	2.5	0.3	+50	10.6	8.4
	2.8	0.6		10.4	8.2
	2.7	0.5		10.5	8.3
	2.9	0.7		11.3	9.1
1 +00	2.9	0.7		11.1	8.9
	2.9	0.7	3 +00	13.1	10.9
	2.9	0.7			
	3.1	0.9			
	3.9	1.7			
+50	6.3	4.1			
	7.9	5.7			
	9.5	7.3			
	10.1	7.9			

PX
STAW 161 +00; 0 +00 = N 7340Sound
South

DIST	Sound	ELEV	DIST	Sound	elev
0 +00				12.0	9.8
2;35	0.3	+1.9	2 +00	12.2	10.0
(2.2)	1.6	+0.6		12.1	9.9
	1.9	+0.3		12.0	9.8
	2.6	0.4		11.3	9.1
+50	2.8	0.6		10.7	8.5
	2.8	0.6	+50	10.5	8.3
	2.8	0.6		10.0	7.8
	2.9	0.7		10.1	7.9
	3.1	0.9		10.5	8.3
1 +00	3.1	0.9	(2.2)	10.1	7.9
	3.1	0.9	2.40	10.0	7.8
	3.2	1.0	3 +00		
	4.0	1.8			
	6.6	4.4			
+50	8.2	6.0			
	9.4	7.2			
	10.3	8.1			
	11.7	9.5			

PX
 STA W162+00; 0+00 = N 7320 - South

DIST	Sound	elev	DIST	Sound	elev
2:45 0+00			10.2	8.0	
2:45 (2.2)	0.6	+1.6	2+00	10.2	8.0
	1.2	+1.0		10.3	8.1
	1.9	+0.3		10.5	8.3
	2.5	0.3		10.9	8.7
+50	2.6	0.4		13.0	10.8
	2.9	0.7	+50	13.2	11.0
	3.0	0.8	(2.3)	13.0	10.7
	3.0	0.8		13.1	10.8
	3.1	0.9	(2.3)	13.4	11.1
1+00	3.3	1.1	2:50	13.4	11.1
	3.9	1.7	3+00	13.2	10.9
	6.1	3.9			
	7.1	4.9			
	9.1	6.9			
+50	9.6	7.4			
	10.1	7.9			
	10.1	7.9			
	10.2	8.0			

PX
 STA W163+00; 0+00 = N 7320 - South

DIST	Sound	ELEV	DIST	Sound	elev
2:55 0+00	0.0	+2.3	(2.3)	12.4	10.1
(2.3)	0.7	+1.6	3:00	12.0	9.7
	1.3	+1.0		11.3	9.0
	1.9	+0.4		12.0	9.7
	2.3	0.0		12.2	9.9
+50	2.5	0.2		12.2	9.9
	2.8	0.5	+50	12.1	9.8
	3.0	0.7		12.0	9.7
	3.2	0.9		12.0	9.7
	3.1	0.8		12.0	9.7
1+00	5.3	3.0		12.0	9.7
	7.0	4.7	3:02	12.3	10.0
	9.0	6.7	3+00		
	10.4	8.1			
	10.7	8.4			
+50	10.8	8.5			
	10.8	8.5			
	13.0	10.7			
	12.3	10.0			

6-3-59

Sound

SOUTH

STAW 164+00; 0+00 = N 7370-

DIST Sound elev DIST Sound elev

0+00 12.8 10.4

2+00 12.1 9.7

(2.4) 11.6 9.2

3:10 0.5 +1.9 11.3 8.9

1.3 +1.1 11.4 9.0

+50 1.5 +0.9 11.7 9.3

2.2 +0.2 +50 11.9 9.5

2.7 0.3 12.0 9.6

2.7 0.3 12.0 9.6

3.0 0.6 11.4 9.4

1+00 3.8 1.4 (2.4) 11.8 9.4

4.0 1.6 3+00 12.0 9.6

6.7 4.3

7.2 4.8

7.9 5.5

+50 7.9 5.5

7.8 5.4 +50

12.3 9.9

12.5 10.1

Contd MB 113
Pg. 47

6-10-59

(52)

SOUNDINGS @ 90° TO VENTURA BRIDGE

STA. N. 60° 3.38; 0+00 = N. 16797.22; SOUND 5.40° W

DIST Sound Elev DIST Sound Elev

2:00
0+00 19.0 14.7 (4.3) 23.8 19.5

(4.3) 20.7 16.4 23.7 19.4

21.4 17.1 2+00 23.0 18.7

20.9 16.6 23.0 18.7

19.3 15.0 23.4 19.1

50 18.6 14.3 23.4 19.1

16.9 12.6 23.6 19.3

17.0 12.7 50 23.8 19.5

20.8 16.5 23.2 18.9

21.3 17.0 23.2 18.9

1+00 24.0 19.7 23.8 19.5

23.0 18.7 (4.3) 24.1 19.8

2:05
23.3 19.0 3+00 24.3 20.0

24.5 20.2 SOUND N. 40° E

2:05
24.0 19.7 0+10 16.3 12.0

50 23.3 19.0 (4.3) 16.3 12.0

23.7 19.4 19.1 14.8

24.1 19.8 20.3 16.0

STA. N60+03.38 CONTD. N.40°E

DIST SOUND ELEV

+ 50	19.4	15.1
(4.3)	21.5	17.2
	22.2	17.9
	22.6	18.3
	21.9	17.6
1+00	21.7	17.4
	21.5	17.2
	21.6	17.3
	21.2	16.9
(4.3)	21.2	16.9
2:10		
+ 50	20.5	16.2

2+00

6-10-59

53

STA. N. 60+63.89; 0+00=W/1686.923; SOUND S. 40°W

DIST SOUND ELEV DIST SOUND ELEV

2:10	0+00	17.0	12.3	(4.3)	24.9	20.6	
(4.3)		18.7	14.4	2+00	24.9	20.6	
		20.4	16.1		24.2	19.9	
		20.9	16.6		24.2	19.9	
		19.8	15.5		24.4	20.1	
	50	18.9	14.6		24.9	20.6	
		18.3	14.0	50	24.8	20.5	
		19.1	14.8		24.8	20.5	
		23.1	18.8		24.5	20.2	
		23.2	18.9		24.3	20.0	
	1+00	23.0	18.7	(4.3)	24.7	20.4	
		23.2	18.9	2:16	3+00	24.2	19.9
		23.9	19.6				
		24.7	20.4	SOUND N. 40°E			
		24.8	20.5	2:20	0+10	15.2	10.9
						19.2	14.9
	50	25.1	20.8			22.0	17.7
		24.8	20.5			22.1	17.8
		24.8	20.5	50	22.8	18.5	
		24.8	20.5			23.4	19.1

STA N60+63.80 CONT N40E

DIST Sound elev

(4.3) 23.3 19.0

22.0 17.7

21.5 17.2

1+00 21.3 17.0

20.9 16.6

21.1 16.8

21.3 17.0

(4.3) 21.0 16.7

2:20 +50 20.4 16.1

20.2 15.9

19.8 15.5

(4.2) 19.5 15.2

2:25 19.2 14.9

2+00 19.3 15.0

6-10-59 W 16957.32 Sound (54

STA N61+37.72 of 00=W 17957.32 5400W

DIST sound elev DIST Sound elev

2:35 0+00 14.0 9.8 4.2 25.0 20.8

(4.2) 15.1 10.9 2+00 25.0 20.8

16.0 11.8 24.3 20.1

(4.2) 16.3 12.1 24.1 19.9

2:37 16.7 12.5 24.1 19.9

+50 15.4 11.2 24.6 20.4

2:40 17.0 12.8 +50 24.8 20.6

(4.2) 22.0 17.8 24.5 20.3

23.1 18.9 24.4 20.2

23.0 18.8 (4.1) 24.8 20.7

1+00 23.0 18.8 2:45 24.7 20.6

23.1 18.9 3+00 24.8 20.7

23.2 19.0 Sound N40°E -

2:45 23.5 19.3 0+10 18.3 14.2

24.1 19.9 (4.1) 20.2 16.1

+50 24.0 19.8 21.3 17.2

24.2 20.0 21.2 17.1

24.6 20.4 +50 21.3 17.2

24.4 20.2 22.4 18.3

STAN 61+37.72 CONT N40°E

DIST	Sound	elev
(4.1)	23.3	19.2
	23.2	19.1
	22.3	19.2
1+00	21.3	19.2
	20.5	16.4
	18.5	14.4
	19.1	15.0
(4.1)	19.3	15.2
2:50 +50	18.9	14.8

6-11-59

135
Sound
5400W

STAN 61+98.78; 0+00 = W 170 30.10

DIST	Sound	elev	DIST	SOUND	ELEV
9:20 0+00	13.2	11.5	(1.7)	21.4	19.7
(1.7)	14.0	12.3	2+00	21.3	19.6
	15.2	13.5		20.8	19.1
	15.4	13.7		20.7	19.0
	15.5	13.8		20.9	19.2
+50	14.8	13.1		21.0	19.3
	14.7	13.0	+50	21.0	19.3
	15.2	13.5		21.0	19.3
(1.7)	19.4	17.7		21.0	19.3
9:25	20.7	19.0		21.0	19.3
1+00	21.0	19.3	(1.7)	21.3	19.6
	21.4	19.7	9:28 3+00	21.2	19.5
	21.2	19.5	SOUND N40°E		
	21.8	20.1	9:30 0+10	16.7	15.0
	22.1	20.4	(1.7)	18.3	16.6
+50	21.8	20.1		19.0	17.3
	21.8	20.1		18.2	16.5
	21.2	19.5	+50	18.5	16.8
	21.0	19.3		18.7	17.0

STAN 61+98.78 CONT N40°E

DIST Sound ELEV

(1.7)	18.0	16.3
	17.1	15.4
	17.0	15.3
1+00	17.0	15.3
	16.9	15.2
	16.8	15.1
	17.1	15.4
	17.0	15.3
+50	16.7	15.0
	16.9	15.2
	16.4	14.7
	16.6	14.9
(1.7)	16.5	14.8
9:33		
2+00	15.9	14.2

6-11-59

156
Sound.
540°W

STAN 62+63.06; 0+00 17106.70

DIST Sound ELEV DIST Sound ELEV

9:28					
0+00	15.3	13.6	(1.7)	23.4	21.7
(1.7)	12.3	10.6	2+00	23.4	21.7
	10.9	9.2		22.8	21.1
	12.6	10.9		22.1	20.4
	12.8	11.1		21.9	20.2
+50	12.7	11.0		21.5	19.8
	12.8	11.1	50	22.2	20.5
	13.0	11.3		22.2	20.5
(1.7)	17.1	15.4		22.7	21.0
9:40	18.5	16.8		23.1	21.4
1+00	21.0	19.3	(1.8)	22.7	20.9
	21.0	19.3	9:45	22.4	20.6
	21.1	19.4	3+00	22.4	20.6
	20.6	18.9	9:45		
	21.1	19.4	0+10	17.9	16.1
	21.1	19.4		19.0	17.2
+50	21.4	19.7		20.1	18.3
	23.4	21.7		19.1	17.3
	24.0	22.3	+50	18.7	16.9
	24.0	22.3		18.1	16.3

STA N62+6306 Cont N40°E

DIST	Sound	ELEV	DIST	Sound	Elev
(1.8)	18.1	16.3			
	18.3	16.5			
	18.3	16.5			
+00	19.6	17.8			
	19.6	17.8			
	20.0	18.2			
	20.0	18.2			
	20.0	18.2			
+50	19.8	18.0			
	19.5	17.7			
	19.5	17.7			
(1.8)	19.7	17.9			
9:50	18.1	16.3			
2+00	18.1	16.3			

6-11-59

(57)
Sound

STA N63+2927; 0+00=N17/85.60 5460W					
DIST	Sound	ELEV	DIST	Sound	ELEV
9:55 0+00	20.7	18.9	(1.9)	24.0	22.1
(1.8)	22.1	20.3	2+00	24.5	22.6
	23.3	21.5		24.4	22.5
	24.3	22.5		24.0	22.1
	24.5	22.7		23.0	21.1
50	22.0	20.2		22.9	21.0
	18.4	16.6	50	22.2	20.3
	19.1	17.3		23.0	21.1
	22.3	20.5		23.3	21.4
(1.9) 10:00	23.3	21.4		23.1	21.2
1+00	23.0	21.1	(1.9)	23.0	21.1
	22.2	20.3	10:05 3+00	22.5	20.6
	22.3	20.4	SOUND N40°E		
	21.3	19.4	10:05 0+10	14.7	12.8
	21.3	19.4	(1.9)	15.7	14.0
+50	22.1	20.2		19.3	17.4
	23.0	21.1		20.9	19.0
	23.7	21.8	+50	21.4	19.5
	23.4	21.5		21.8	19.6

STAN 63+29.27 CONT N 40° E

DIST	Sound	ELEV
(2.0)	22.0	20.0
	21.9	19.9
	19.1	17.1
1+00	20.1	18.1
	19.7	17.7
	19.1	17.1
	18.1	16.1
	17.0	15.0
+50	16.9	14.9
	16.7	14.7
	16.4	14.4
(2.0)	16.7	14.7
10/10	16.7	14.7
2+00	16.7	14.7

6-11-59

158
Sound
S 40° W

STAN 63+87.76; 0+00 = W17255.31

DIST	Sound	ELEV	DIST	Sound	ELEV
10/15			(2.1)	24.1	22.0
0+00	21.7	19.7	10/20		
(2.0)	25.2	23.2	2+00	24.0	21.9
	25.5	23.5		23.8	21.7
	25.3	23.3		23.2	21.1
	25.2	23.2		23.0	20.9
+50	24.8	22.8		23.0	20.9
	19.7	17.7	50	24.2	22.1
	21.5	19.5		24.4	22.3
	24.1	22.1		24.7	22.6
	25.5	23.5		24.7	22.6
1+00	26.1	24.1	(2.2)	23.9	21.8
	26.3	24.3	10/23		
	25.4	23.4	3+00	23.9	21.8
	25.1	23.1	Sound N 40° E		
	25.1	23.1	10/25		
	24.3	22.3	0+10	21.3	19.1
50	24.3	22.3	(2.2)	23.1	20.9
	24.4	22.2		23.5	21.3
	24.4	22.2		23.0	20.8
	24.3	22.3	+50	23.2	21.0
				23.1	20.9

STA N63+87.76 Cont N40°E

DIST Sound elev

(2.2)	21.7	19.5
	20.5	18.3
	21.0	18.8
1700	21.3	19.1
	20.3	18.1
	19.6	17.4
	18.7	16.5
	17.3	15.1
+50	17.2	15.1
	17.0	14.8
	17.1	13.9
(2.3)	17.1	14.8
10:20	17.1	14.8
2700	17.0	14.7

6-11-59

STA N64+64.40; 0+100=W/734.88 Sound S40°W

DIST	Sound	elev	DIST	Sound	elev
10:35 0+00	21.3	18.9	(2.5)	24.0	21.5
(2.4)	24.4	22.0	2700	23.9	21.4
	24.7	22.3		23.9	21.4
	24.7	22.3		24.3	21.8
	24.1	21.7		24.4	21.9
50	23.9	21.5		24.0	21.5
	21.0	18.6	50	24.1	21.6
	19.0	15.6		23.7	21.2
	20.7	18.3		23.3	20.8
(2.5)	23.5	21.0		23.2	20.7
10:40 1700	25.2	22.7	(2.6)	23.4	20.8
	25.7	23.2	10:45 3700	23.0	20.4
	25.0	22.5	Sound N40°E		
	24.7	22.2	10:45 0710	22.0	19.4
	24.7	22.2	(2.6)	22.9	20.3
50	24.4	21.9		24.4	21.8
	24.3	21.8		23.5	20.9
	24.1	21.6	+50	23.0	20.4
	24.0	21.5		23.0	20.4

STAN 64+64.40 CONT N40°E

DIST Sound elev

(2.6)	22.4	19.8
	22.0	19.4
	20.3	17.7
+100	19.9	17.3
(2.7)	19.8	17.1
	19.7	17.0
	20.1	17.4
	19.3	16.6
+50	18.9	16.2
	18.2	15.8
	18.3	15.6
	18.0	15.3
(2.7)	18.0	15.3
10:50	18.0	15.3
2+10	18.0	15.3

STAN 65+21.46; D+00=W17414.65 ⁵⁹ Sound 340.18

DIST Sound ELEV DIST Sound ELEV

10:55	17.8	15.1	(2.8)	23.0	20.2
0+00	17.8	15.1	11:00	22.9	20.1
(2.7)	17.8	15.1	2+10	22.8	20.0
	17.2	14.5		23.0	20.2
	17.0	14.3		23.1	20.3
	15.7	13.0		23.0	20.2
50	14.7	12.0		23.0	20.2
	13.9	11.2	50	22.8	20.8
	14.8	10.1		22.8	20.8
	17.5	14.8		22.3	19.5
	20.0	17.3		22.2	19.4
+100	21.3	18.6	(2.8)	22.2	19.4
	22.0	19.3	11:02	22.2	19.4
	23.3	20.6	3+00		
	23.3	20.6	Sound N40°E		
	23.1	20.4	11:05	16.8	13.9
	23.1	20.4	0+10	(2.9)	19.9
50	23.0	20.3		21.8	18.9
	22.9	20.2		22.5	19.6
	23.0	20.3	+50	22.3	19.4
	23.1	20.4		21.3	18.4

STAN 65+21.46 cont N40°E

DIST Sound elev

(2.9) 21.8 18.6

21.0 18.1

20.3 17.4

1400 18.5 15.6

(3.0) 18.8 15.8

19.1 16.1

18.7 15.7

17.9 14.9

+50 18.0 15.0

17.7 14.7

17.6 14.6

17.5 14.5

(3.0) 17.8 14.8

11:08 2+00 17.7 14.7

STAN 65+84.46; 0+10=W 17489.72 ¹⁶⁰ Sound 3400W

DIST Sound ELEV DIST Sound elev

11:10 0+00 4.0 1.0 (3.1) 8.8 5.7

(3.0) 3.7 0.7 2+00 6.8 3.7

3.0 0.0 6.9 3.8

3.0 0.0 7.0 3.9

2.0 +1.0 7.0 3.9

+50 1.5 +1.5 9.5 6.4

2.0 +1.0 50 8.0 4.9

3.7 0.7 7.7 4.6

(3.1) 4.1 1.1 7.0 3.9

4.0 1.0 (3.2) 7.2 4.0

11:15 1400 3.8 0.7 11:19 5.7 2.5

4.1 1.0 3+00 4.0 0.8

5.0 1.9 Sound N40°E

7.3 4.2 11:20 0+10 4.8 1.6

10.3 7.2 (3.2) 6.7 3.5

+50 10.5 7.4 5.3 2.1

9.9 6.8 7.0 3.8

9.5 6.4 50 8.3 5.1

9.8 6.7 11.9 8.7

STA 65+84.46 Cont N40°E

Dist Sound elev

3.2 11.8 8.6

10.5 7.3

6.5 3.3

1+00 9.6 6.4

10.8 7.6

12.8 9.6

17.0 13.8

16.3 13.1

+50 16.4 13.2

16.4 13.2

16.8 13.6

(3.2) 17.1 13.9

11.25 16.9 13.7

2+00 17.4 14.2

Contd. from MB-110-Pg. 76

STA. N. 161+00; 0+00=W. 7220 SOUND WEST

7-30-59 161

Dist Sound Elev Dist Sound Elev

0+00 9.8

1.35 0.1 2+00 9.7

(3.2) 0.7 9.8

1.0 9.8

2.0 9.8

50 2.5 10.0

3.4 80 10.0

4.8 10.0

6.1 10.0

6.9 10.0

1+00 7.6 10.2

8.0 3+00 10.5

8.3 10.3

9.0 10.2

9.0 (3.2) 10.3

50 9.4 1540 10.2

9.6 50 10.6

9.5 10.5

9.6 10.2

STAN 161400 CONT WEST
 DIST Sound elev DIST

	10.2		10.0
	10.3		10.0
4400	10.3	6400	9.8
	10.2		9.8
	10.4		9.8
	10.3		9.3
	10.5		9.2
50	10.4	50	9.0
	10.4		8.7
	10.6		8.6
	10.4	(3.3)	8.4
	10.5	1145	8.3
5400	10.2	7400	8.0
	10.5		
	10.3		
	10.5		
	10.3		
50	10.4		
	10.2		
	10.0		

STAN 162400, 0400 = W 7240 - Sound WEST

DIST	Sound elev	DIST	Sound elev
0400			10.0 6.7
1.50	0.0 +3.3	2400	10.0 6.7
(3.3)	0.6 +2.7		10.0 6.7
	2.0 +1.3		10.1 6.8
	3.7 0.4		10.2 6.9
50	3.2 +0.1		10.1 6.8
	4.6 1.3	50	10.0 6.7
	6.1 2.8		10.0 6.7
	6.8 3.5		10.1 6.8
	7.3 4.0		10.0 6.7
1400	7.3 4.0		10.1 6.8
	8.0 4.7	3400	10.3 7.0
	8.6 5.3		10.4 7.1
	9.0 5.6		10.5 7.2
	9.2 5.9		10.7 7.4
50	9.2 5.9		10.8 7.5
	9.7 6.4	50	10.5 7.2
	9.8 6.5		10.6 7.3
	9.8 6.5		10.5 7.2

STAN 162 + 00 COAST WEST

DIST	Sound	elev	DIST	Sound	elev
	10.7	7.4		10.4	7.1
	10.6	7.3	(3.3)	10.0	6.7
4+00	10.8	7.5	1155	10.3	7.0
	10.9	7.6	50	10.3	7.0
	10.7	7.4		10.3	7.0
	10.8	7.5		10.4	7.1
	10.6	7.3		10.5	7.2
50	10.4	7.1	50	10.6	7.3
	10.6	7.3	50	10.2	6.9
	10.7	7.4		10.6	7.3
	10.5	7.2		10.5	7.2
	10.5	7.2		10.4	7.1
5+00	10.6	7.3	7+00	10.3	7.0
	10.5	7.2			
	10.7	7.4			
	10.5	7.2			
	10.5	7.2			
50	10.8	7.5	50		
	10.6	7.3			
	10.4	7.1			

7-30-59

163
Sound
WEST

STAN	163 + 00	10 + 00 = W	7270
	0+00		10.2
	2,00	0.3	2+00 10.1
	(3.4)	1.0	10.1
	2.0		9.8
	2.5		9.9
	50	3.0	9.9
	4.0	50	10.0
	5.2		10.1
	6.3		10.1
	7.1		10.1
	1400	7.7	10.2
	8.4	3+00	10.4
	8.8		10.5
	9.3		10.6
	9.4	(3.4)	10.5
	50	10.2	2,00 10.8
	10.0	50	10.9
	10.0		10.9
	10.1		10.7
	10.2		10.8

STAN 163+00 cont West

DIST	Sound elev	DIST	Sound elev
	10.9		10.2
	11.0		10.3
4+00	10.8	6+00	10.5
	10.8		10.0
	10.9		10.0
	10.5	(3.4)	10.1
	10.7	2:10	10.1
50	10.8	50	10.0
	10.7		
	10.0		
	10.5		
	10.5		
5+00	10.7	7+00	
	10.5		
	10.5		
	10.3		
	10.2		
50	10.2	50	
	10.4		
	10.2		

STAN 164+00; 0+00 = W 72 90.0

DIST	Sound elev	DIST	Sound elev	64 Sound West
0+00		(3.5)	10.3	6.9
2:10	0.1 +3.3	2:15	10.2	6.8
(3.4)	0.5 +2.9	2+00	10.2	6.8
	1.3 +2.1		10.0	6.6
	1.9 +1.5		10.0	6.6
50	2.5 +0.9		10.1	6.7
	3.3 +0.1	50	10.2	6.8
	4.2 0.8		10.3	6.9
	5.8 2.4		10.3	6.9
	7.0 3.6		10.3	6.9
1+00	7.5 4.1		10.4	6.9
	8.0 4.6	3+00	10.2	6.7
	8.3 4.9		10.4	6.9
	9.1 5.7		10.1	6.6
	9.6 6.2		10.1	?
50	10.1 6.7		10.1	6.6
	10.0 6.6	50	9.9	6.4
	10.2 6.8		10.1	6.6
	10.2 6.8		10.1	6.6

STAN 164400 CONT WEST

7-30-59

165

STAN 164400 CONT WEST			STAN 165700, 0400 = W 7330			Sound West		
DIST	Sound	elev	DIST	Sound	elev	DIST	Sound	elev.
	10.0	6.5	(3.5)	10.0	6.5			
	10.0	}	2.20	10.0	}	2.25		10.5
4400	10.0	6.5	6400	10.0	}	(3.5)	0.4	2400
	10.2	6.7		10.0	6.5		1.5	10.3
	10.1	6.6		10.1	6.6		2.1	10.3
	10.0	6.5		10.1	6.6		2.8	10.3
	10.0	}				50	3.6	10.5
50	10.0	}	50				4.0	50
	10.0	}					5.4	10.9
	10.0	6.5					6.6	10.8
	9.9	6.4					7.1	10.5
	10.0	6.5				1400	8.0	10.4
5400	9.9	6.4	7400				8.9	3400
	10.0	6.5					9.3	10.8
	10.0	}					10.0	11.0
	10.0	}					10.1	10.8
	10.0	}				50	10.2	10.9
56	10.0	}	50				10.2	50
	10.0	}					10.4	10.5
	10.0	6.5					10.3	10.5

DIST	Sound elev	DIST	Sound elev
1	10.2		10.1
	10.2		10.1
4+00	10.0	6+00	10.2
	10.0		
	10.0		
	10.0		
50	10.0	50	
	10.0		
	10.0		
(3.6)	9.9		
2:30	10.1		
5+00	10.1	7+00	
	10.1		
	10.0		
	10.1		
	10.1		
50	10.1	50	
	10.0		
	10.1		

STAN 166400, 0400 = W 7360 - Sound West			
DIST	Sound elev	DIST	Sound elev
0+00		2:45	10.2 6.6
2:40	0.3 +3.3	2+00	10.0 6.4
(3.6)	1.1 +2.5	(3.7)	10.1 6.4
	1.8 +1.8		10.1 6.4
	2.3 +1.3		10.3 6.6
50	2.9 +0.7		10.4 6.7
	3.1 +0.5	50	10.1 6.4
	4.0 0.4		10.5 6.8
	5.9 2.3		10.9 7.2
	7.0 3.4		11.0 7.3
1+00	7.4 3.8		11.3 7.6
	8.0 4.4	3+00	11.0 7.3
	8.7 5.1		11.0 7.3
	8.9 5.3		10.9 7.2
	9.6 6.0		10.9 }
50	9.8 6.2		10.9 }
	9.7 6.1	50	10.9 }
	9.9 6.3		10.9 }
	10.0 6.4		10.9 7.2

STAN 166+00 CONT WEST

Dist Sound Elev ft

10.9 7.2

10.8 7.1

4+00 10.8 7.1

10.7 7.0

10.7 7.0

10.2 6.5

10.0 6.3

50 10.0

10.0

10.0 6.3

10.3 6.6

10.7 7.0

5400 10.5 6.8

10.8 7.1

(3.7) 10.7 7.0

10.5 6.8

2:50 10.4 6.7

50 10.3 6.6

8-20-59

67

STAN 167+00; 0+00 = W. 7390; SOUND WEST

Dist Sound Elev Dist Sound Elev

0+00

(4.9) 9.0

(4.9)

2+00 9.5

12:50 0.5

10.0

1.1

10.1

1.8

10.2

50 2.3

10.2

2.8

50 10.3

3.0

12:54 10.4

3.2

10.5

3.5

10.6

1+00 4.0

10.6

4.5

3+00 10.8

4.5

10.9

4.6

11.0

5.0

11.0

50 6.0

11.0

6.9

50 11.0

8.1

11.0

8.6

8-20-57

STA. W. 74+00; 0+00 = N. 16710; SOUND SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00			(48)	6.1	
(49)			2+00	6.9	
<u>12.57</u>	0.2			7.2	
	0.6		<u>1.00</u>	7.3	
	1.0			7.9	
50	1.7			8.0	
	2.0		50	8.1	
	2.2			8.3	
	2.6			8.5	
	3.0			9.0	
1+00	3.1			9.0	
	3.4		3+00	9.2	
	3.6			9.4	
	4.0			9.5	
	4.2			9.9	
50	4.5			10.0	
	4.8		50	10.0	
	5.2			10.0	
	5.8				

168

STA. W. 75+00; 0+00 = N. 16800; SOUND SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00			(47)	10.2	
			(48)	0.2	
			2+00	10.5	
				10.7	
			<u>1.05</u>	1.0	
				1.6	
				2.1	
			50	2.7	
				2.8	
			50	11.0	
				11.1	
				11.1	
				4.0	
			<u>1.08</u>	11.3	
			1+00	4.4	
				4.6	
			3+00	11.5	
				4.7	
				5.2	
				6.8	
			50	8.0	
				9.1	
			50		
				9.6	
				10.0	

8-20-59

STA. N. 76+00; 0+00 = N. 16.840; SOUND SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00			(4.3)	10.6	
(4.6)	0.5		2+00	10.7	
<u>1:15</u>	1.5		<u>1:19</u>	10.9	
	2.3			11.0	
	3.0			11.2	
50	3.6			11.3	
	4.1		50	11.3	
	4.9			11.3	
	5.5			11.3	
	6.4			11.4	
1+00	7.1			11.5	
	8.0		3+00	11.5	
	8.9			11.5	
	9.3			11.7	
	9.5			11.7	
50	9.7			11.8	
	10.0		50	11.8	
	10.1			11.8	
	10.3				

8-20-59

167

STA. N. 77+00; 0+00 = N. 16.860; SOUND SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00			(4.4)	11.0	
(4.4)			2+00	11.0	
				11.1	
			<u>1:24</u>	2.2	
				11.3	
			3.0		11.4
			<u>11:28</u>		11.3
50	3.5			11.5	
	4.2		50	11.5	
	5.0			11.6	
	5.9			11.6	
	6.3			11.6	
1+00	7.5			11.6	
	8.3		3+00	11.5	
	9.0			11.5	
	9.5			11.5	
	9.9			11.5	
50	10.0			11.5	
	10.3		50	11.5	
	10.5				
	10.7				

8-20-59

STA. W. 78+00; 0+00 = N. 16,860; SOUND SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00			(42)	10.2	
(43)			2+00	10.3	
<u>1.33</u>	0.2		<u>1037</u>	10.2	
	1.5			10.4	
	2.5			10.2	
50	3.0			10.5	
	3.5		50	10.5	
	4.0			10.5	
	4.6			10.6	
	5.5			10.6	
1+00	6.5			10.6	
	7.3		3+00	10.7	
	8.3			10.7	
	9.0			10.7	
	9.4			10.8	
50	9.9		<u>1040</u>	10.7	
	10.0		<u>50</u>	10.7	
	10.1				
	10.2				

8-20-59

STA. W. 79+00; 0+00 = N. 16,850; SOUND SOUTH

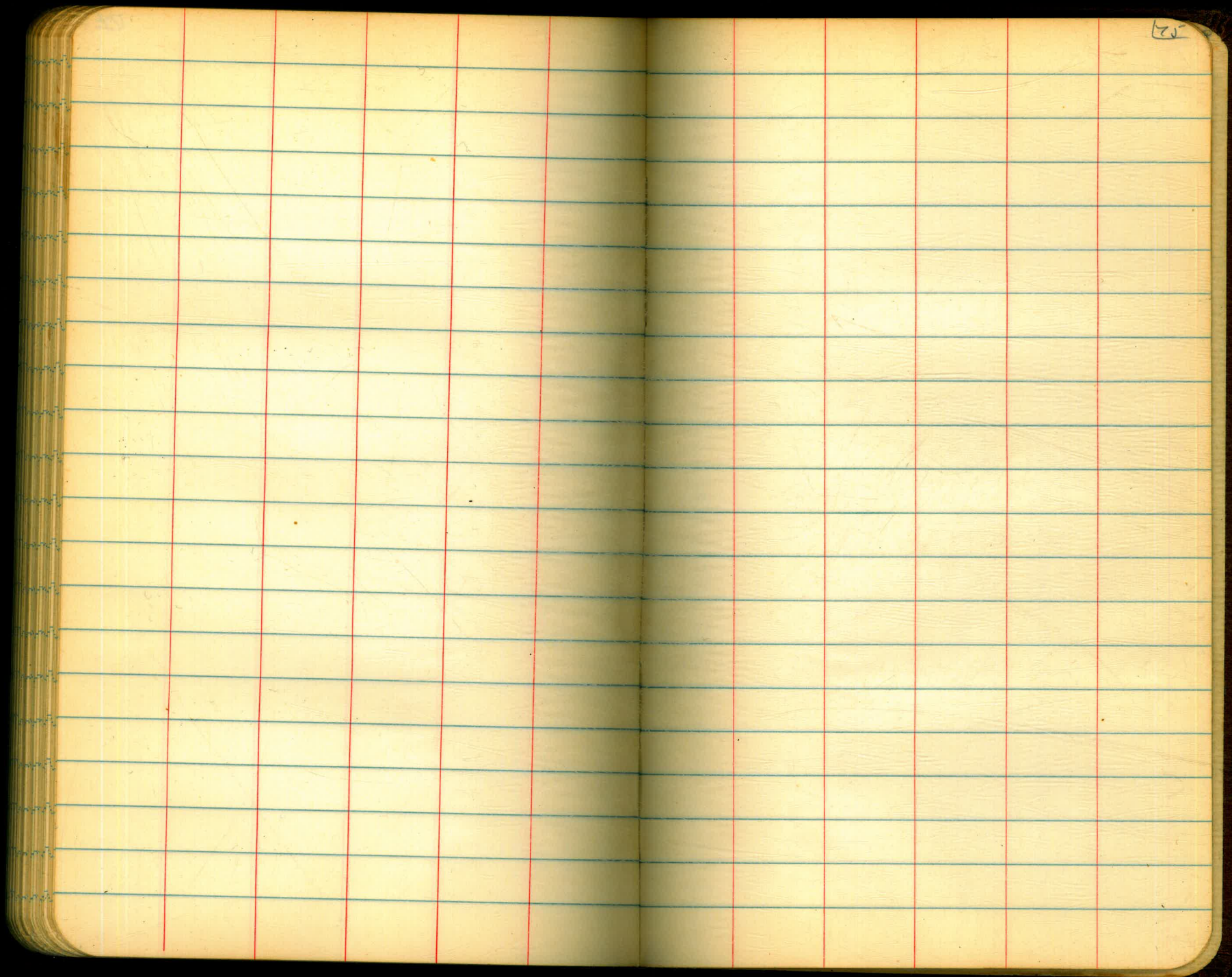
Dist	Sound	Elev	Dist	Sound	Elev
0+00			(40)	10.3	
			(41)	10.5	
			<u>1144</u>	10.5	
				10.5	
			1.0	10.6	
			<u>1147</u>	10.6	
50	1.5			10.7	
	2.0		50	10.7	
	2.3			10.7	
	2.5			10.8	
	2.8			10.8	
1+00	3.2			10.9	
	3.5		3+00	11.0	
	4.0			11.0	
	5.0			11.0	
	7.0			10.9	
50	8.0			10.9	
	9.1		50	10.9	
	9.5				
	10.0				

170

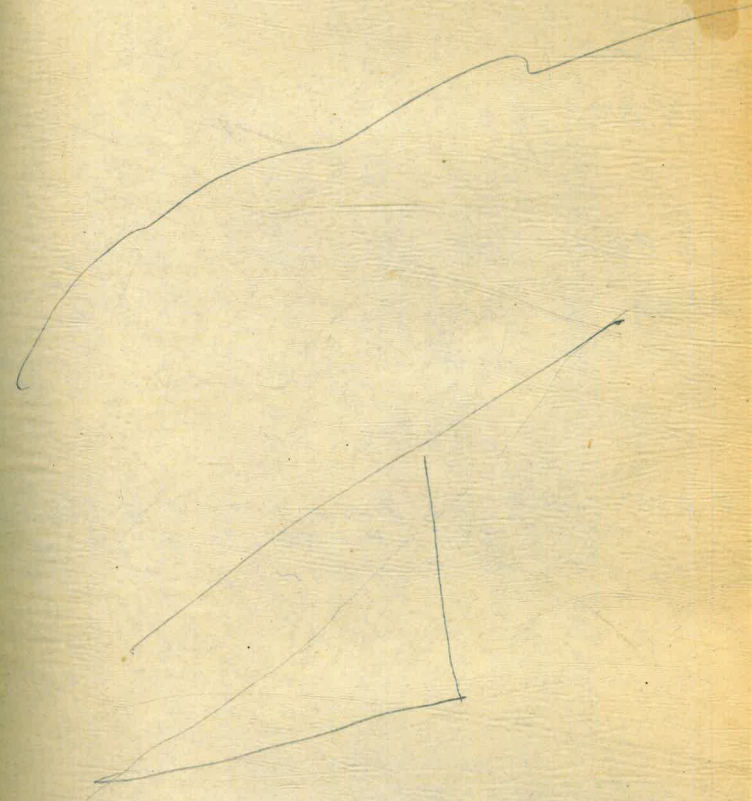
The image shows an open notebook with two facing pages. The pages are cream-colored and feature blue horizontal ruling. Each page has a red vertical margin line on the left side (for the left page) and a red vertical margin line on the right side (for the right page). The notebook is bound in the center, and the dark cover is visible at 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.

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 is bound in the center, and the dark cover is visible at the edges. The page number '73' is written in the top right corner of the right-hand page. There are some faint, illegible markings on the pages, possibly bleed-through from the reverse side.

The image shows an open notebook with two facing pages. The pages are cream-colored and feature blue horizontal ruling. Each page has two vertical red margin lines, one on each side of the central gutter. The notebook is bound in a dark, possibly black, cover that is visible at the edges. The pages are blank, with no writing or markings other than the page number '74' in the top right corner of the right page.



25



649

60.9

44.57960
3.3 06.1

17.5558

11.54

22.128

89-60

23 20

66.40

Elev

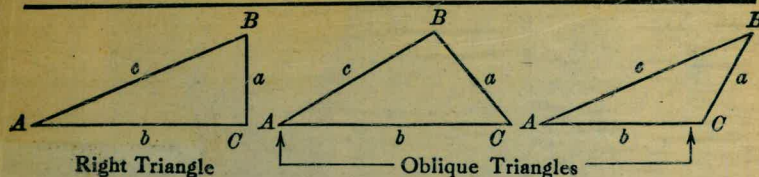
12.87 = L. & T. Conc Base Flagpole

Ventura Point

11.39 - Mon. Coaster

14.45 - Top NWly Conc. Timing Pad base on
Tierra Del Fuego Island (Wly)11.35 ON ~~CONC~~ ^{Pipe} POINT A' FB88-2
N 74 79.15 + W 16 48.30 - Wly END
OF WLY TIERRA DEL FUEGO

TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

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

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

Solution of Oblique Triangles

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

REDUCTION TO HORIZONTAL

Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = $5^\circ 10'$. From Table, Page IX. $\cos 5^\circ 10' = .9959$. Horizontal distance = $319.4 \times .9959 = 318.09$ ft.

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

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