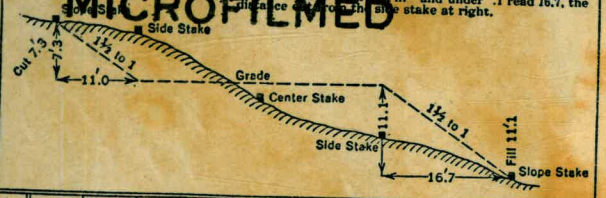
MISSION BAY

No. 28

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1½ to 1.

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



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

BOOK # 28

109°26'22"

The paper in this book **No. F370A** is made of **50%** high grade rag stock with a **WATER RESISTING** surface sizing.

11,442-1. kc, o, yk. khss.

1.25

— HI + x Bottom Wall

5.49

2.88 x Top of Wall.

PROGRESS X-SECTION PROJ # 9 7-30-48

Station 100+00 PX

SECTION AT 90° To SEA WALL

0100 = PT. 1+33 W. of T/L. ON SEA WALL

STA	+	H.I.	−	ELEV	
B.M	2.88	18.75		15.87	X-To P of SEA WALL STA-100+00
	1.86	15.12	5.49	13.26	BLUE-X- AT BOTTOM WEST SIDE OF SEA WALL
E1+25			4.1	11.0	
E0+95			4.3	10.8	
E0+65			4.5	10.6	
E.0+30			4.1	11..0	
0+00			5.0	10.1	
W0+46			4.9	10.2	
W0+63			4.1	11.0	
W0+90			5.1	10.0	
W1+20			5.2	9.9	
W1+48			4.7	10.4	
W1+70			5.1	10.0	
W1+97			6.0	9.1	
W2+30			6.8	8.3	

INDEX

Dist	+	Hi	−	Elev
W 2+30			6.8	

#28

INDEX

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79	PIER AT YARMOUTH	

BARRAGAN
SHEARS
STANLEY

10-29-77

SOUNDINGS OF EAST HALF OF TIERRA DEL FUEGO ISLAND

PX STA-94+00

0+00 = PT. 1390' E/STA-94+00 W/CAUSEWAY B/L SOUND EAST

DIST	SOUND		DIST	SOUND	
0+20	0.0	+5.5	1+70	2.5	+3.0
+30	0.4	+5.1		2.8	+2.7
11:03 40	0.4	—	(5.5)	3.1	+2.4
50	0.6	+4.9	2+00	3.5	+2.0
(5.5)	0.7	+4.8		4.4	+1.1
	1.0	+4.5		7.5	-2.0
	2.0	+3.5		8.1	-2.6
	1.6	+3.9		8.5	-3.0
R-132 1+00	2.0	+3.5	50	8.7	-3.2
	2.2	+3.3		9.0	-3.5
	2.2	—		9.6	-4.1
	2.0	+3.5		10.7	-5.2
	2.2	+3.3		10.8	-5.3
50	2.1	+3.4	3+00	10.8	—
1+60	2.4	+3.1	3+10	10.6	-5.1

94+00 10-29-77 (1)

PX Indexed

DIST	SOUND		DIST	SOUND
3+20	10.3	-4.8		
	10.2	-4.7		
(5.5)	10.1	-4.6		
50	10.0	-4.5		
	10.0	—		
	9.8	-4.3		
	9.8	—		
	9.6	-4.1		
4+00	9.4	-3.9		
	9.2	-3.7		
	9.0	-3.5		
	8.8	-3.3		
	8.7	-3.2		
50	9.0	-3.5		
11:10				

10-28-17

93+00

PX

0+00 = PT 1310'E/STA-93+60 W/CAUSEWAY B/H: SOUND EAST

DIST	SOUND		DIST	SOUND	
0+10	0.0	+5.2	1+70	5.0	+0.2
+20	1.1	+4.1		5.1	-0.2
11:22	1.4	+3.8	(5.2)	6.5	-1.3
(5.2)	1.5	+3.7	2+00	8.2	-3.0
50	1.7	+3.5	11:25	8.8	-3.6
	1.7	—		9.5	-4.3
	1.9	+3.3		10.2	-5.0
	2.0	+3.2		10.7	-5.5
	2.0	—	50	10.8	-5.6
1+00	2.0	—		10.8	—
	2.1	+3.1		10.8	—
	2.6	+2.6		10.6	-5.4
	3.2	+2.0		10.6	—
	3.7	+1.5	3+00	10.5	-5.3
50	3.7	—		10.4	-5.2
1+60	3.9	+1.3	3+20	10.0	-4.8

10-29-17

(2)

93+00

PX

DIST	SOUND		DIST	SOUND
3+30	10.0	-4.8		
	10.0	—		
50	10.0	—		
(5.2)	9.8	-4.6		
	9.5	-4.3		
	9.5	—		
	9.3	-4.1		
4+00	9.3	—		
	9.3	—		
	9.3	—		
	9.0	-3.8		
	9.0	—		
50	8.8	-3.6		
11:29				

10-29-47

RX 90+00

0+00 = PT. 180' E/STA-90+00 W/CAUSEWAY B/L: SOUND EAST

DIST	SOUND		DIST	SOUND	
0+30	0.0	+4.8	1+90	1.4	+3.4
40	0.9	+3.9	2+00	1.6	+3.2
11:47 50	1.5	+3.3		1.5	+3.3
(4.8)	1.7	+3.1	11:50	1.3	+3.5
	1.9	+2.9	(4.8)	1.3	—
	2.0	+2.8		1.2	+3.6
	1.9	+2.9	50	1.1	+3.7
1+00	1.9	—		1.0	+3.8
	2.1	+2.7		1.0	—
	1.7	+3.1		1.0	—
	1.7	—		0.9	+3.9
	1.7	—	3+00	0.9	—
50	1.9	+2.9		0.8	+4.0
	1.5	+3.3		0.8	—
	1.4	+3.4		0.7	+4.1
1+80	1.3	+3.5	3+40	0.7	—

90+00 RX 10-29-47

DIST	SOUND		DIST	SOUND	
3+50	1.0	+3.8	5+30	1.1	+3.7
	1.0	—		1.1	—
(4.8)	1.1	+3.7	50	1.5	+3.3
	1.0	+3.8	11:55	1.5	—
	1.0	—		1.0	+3.8
4+00	1.1	+3.7	(4.8)	1.5	+3.3
	1.0	+3.8		3.1	+1.7
	0.9	+3.9	6+00	5.0	−0.2
	1.0	+3.8		7.3	−2.5
	1.0	—		9.0	−4.2
50	0.9	+3.9		10.0	−5.2
	0.9	—			
	1.0	+3.8	50		
	1.0	—			
	1.3	+3.5			
5+00	1.5	+3.3			
	1.5	—			
5+20	1.0	+3.8			

10-28-17

86+00

0+00 = PT 520' E/STA 86+00 W/CAUSEWAY B/U: SOUND EAST.

DIST	SOUND		DIST	SOUND	
0+15	0.0	+3.8	1+70	~~12.1~~ 12.1	-8.3
12:56+20	0.6	+3.2		12.7	-8.9
	1.1	+2.7	(3.8)	13.7	-9.9
(3.8)	1.8	+2.0	2+00	15.0	-11.2
50	2.0	+1.8	13:00		
	2.7	+1.1			
	6.5	-2.7			
	9.5	-5.7			
	9.5	—			
1+00	9.8	-6.0			
	10.4	-6.6			
	11.0	-7.2			
	11.5	-7.7			
	11.5	—			
50	11.5	—			
1+60	12.0	-8.2			

10-29-17 (1)

84+00

0+00 = PT. 330' E/STA 84+00 W/CAUSEWAY B/U: SOUND EAST

DIST	SOUND		DIST	SOUND
0+18	0.0	+3.6	1+80	
+30	5.0	-1.4		
13:09				
	7.0	-3.4	2+00	
50	7.7	-4.1		
(3.6)	9.5	-5.9		
	11.8	-8.2		
	12.2	-8.6		
	12.6	-9.0		
1+00	12.8	-9.2		
	12.8	—		
	12.8	—		
	14.0	-10.4		
	14.3	-10.7		
50	15.0	-11.4		
	15.0	—		
1+70				

10-29-17

98+00

0+00 = STA 98+00 - R-132+00 : SOUND EAST

PX

DIST			DIST	SOUND	
0+00	+0.0	+3.0	1+00	1.4	+1.6
14:00	0.0	—		1.5	+1.5
	0.0	—	(3.0)	1.5	—
(3.0)	-0.1	+2.9	14:05	1.5	—
	0.1	—	2+00	1.5	—
50	0.2	+2.8		1.5	—
	0.3	+2.7		1.5	—
	0.5	+2.5		1.4	+1.6
	0.5	—		1.3	+1.7
	0.5	—	50	1.3	—
1+00	0.7	+2.3		1.4	+1.6
	0.8	+2.2		1.2	+1.8
	0.9	+2.1		1.1	+1.9
	1.0	+2.0		1.0	+2.0
	1.2	+1.8	3+00	1.1	+1.9
1+50	1.3	+1.7	3+18	1.1	—

98+00

PX

DIST	SOUND		DIST	SOUND	
3+20	1.0	+2.0	5+00	3.5	-0.5
	1.0	—	14:10	4.0	-1.0
(3.0)	1.0	—		4.2	-1.2
50	1.0	—	(3.0)	4.5	-1.5
	1.1	+1.9		4.6	-1.6
	1.2	+1.8	50	4.7	-1.7
	1.4	+1.6		4.7	—
	1.4	—		4.8	-1.8
4+00	1.4	—		5.0	-2.0
	1.6	+1.4		4.8	-1.8
	2.0	+1.0	6+00	4.0	-1.0
	1.8	+1.2			
	1.7	+1.3			
50	1.7	—			
	1.5	+1.5			
	1.8	+1.2			
	2.5	+0.5			
4+90	2.8	+0.2			

10-29-17

(5)

DARRAGH SHERRY STANLEY 10-31-47

ORIGINAL SOUNDINGS PROJECT 3-1 - PATERA ISLAND
(ALL SECTIONS AT 90° TO B/L)

STA-126+00

0+00 = STA-126+00 ON PATERA B/L

DIST	SOUND		DIST	SOUND	
0+00	4.2	+2.1	0+40	4.3	+2.0
09:08	4.2	—	50	4.4	+1.9
	4.2	—	(6.3)	4.5	+1.8
(6.3)	4.3	+2.0		4.6	+1.7
	4.1	+1.9		4.6	—
50	4.5	+1.8		4.8	+1.5
	5.0	+1.3	1+00	5.2	+1.1
	4.7	+1.6		5.4	+0.9
	4.7	—		8.0	-1.7
	4.6	+1.7		10.2	-3.9
1+00	4.5	+1.8		11.0	-4.7
SOUND WEST (SAME 0+00)			50	11.8	-5.5
0+10	4.3	+2.0		12.0	-5.7
09:12 (6.3)	4.2	+2.1		12.3	-6.0
0+30	4.3	+2.0	1+80	12.4	-6.1

SOUND EAST

126+00

10-31-47 (6)

DIST	SOUND		DIST	SOUND	
1+90	12.6	-6.3	3+10	5.9	+0.4
2+00	12.5	-6.2	09:15	6.1	+0.2
	12.0	-5.7		6.0	+0.3
(6.3)	10.0	-3.7	4+00	6.0	—
	8.1	-2.1	(6.3)	5.8	+0.5
	7.3	-1.0		5.8	—
50	6.2	+0.1		5.8	—
	6.0	+0.3		5.8	—
	5.8	+0.5	50	5.9	+0.4
	5.5	+0.8		6.0	+0.3
	5.5	—		6.2	+0.1
3+00	5.7	+0.6		6.0	+0.3
	5.8	+0.5		6.0	—
	5.8	—	5+00	6.2	+0.1
	5.8	—		6.1	+0.2
	5.8	—		6.1	—
50	5.8	—		6.1	—
3+60	5.9	+0.4	5+10	6.1	—

126+00 10-31-47

DIST	SOUND		DIST	SOUND	
5+50	6.1	+0.2	7+30	5.5	+0.9
	6.3	0.0	(6.4)	5.5	—
(6.3)	6.1	+0.2	50	5.5	—
	6.1	—		5.5	—
	6.0	+0.3		5.4	+1.0
6+00	6.0	—		5.4	—
	6.0	—		5.4	—
	5.9	+0.4	8+00	5.4	—
	5.8	+0.5		5.4	—
	5.8	—		5.4	—
50	5.8	—		5.4	—
	5.8	—	09:20	5.5	+0.9
(6.3)	5.7	+0.6	50	5.5	—
09:18	5.6	+0.7		5.5	—
(6.4)	5.6	+0.8		5.5	—
7+00	5.6	—		5.5	—
	5.6	—		5.5	—
7+20	5.5	+0.9	9+00	5.5	—

126+00 10-31-47 (7)

DIST	SOUND		DIST	SOUND	
9+10	5.5	+0.9	10+90	5.5	+0.9
(6.4)	5.5	—	11+00	5.5	—
	5.5	—	09:23		
	5.5	—	(6.4)		
	5.5	—			
50	5.5	—			
	5.5	—			
	5.5	—			
	5.5	—			
	5.5	—			
10+00	5.5	—			
	5.5	—			
	5.5	—			
	5.5	—			
	5.5	—			
50	5.5	—			
	5.5	—			
	5.5	—			
10+80	5.5	—			

10-31-47

127+00

0+00 = STA 127+00 On Patera B/L: SOUND WEST

RX

DIST	SOUND		DIST	SOUND	
0+00	1.7	+1.8	1+60	11.6	-5.1
+10	1.7	—		11.7	-5.2
09:30	1.8	+1.7	(6.5)	12.0	-5.5
(6.5)	1.8	—		12.4	-5.9
	1.8	—	2+00	12.4	—
50	1.8	—		12.0	+5.5
	1.8	—		11.1 +1.1	-4.6
	1.9	+1.6		9.5	-3.0
	5.0	+1.5		8.9	-1.9
	5.0	—	50	7.3	-0.8
1+00	5.2	+1.3		6.5	0.0
	6.0	+0.5		6.0	+0.5
	2.1	-0.6		5.8	+0.7
	9.0	-2.5		5.9	+0.6
	10.7	-4.2	3+00	5.9	—
1+50	11.1	-4.6	3+10	6.2	+0.3

10-31-47

127+00

RX

DIST	SOUND		DIST	SOUND	
3+20	6.5	0.0	5+00	6.0	+0.5
09:33	6.5	—		6.0	—
	6.0	+0.5	(6.5)	6.0	—
50	6.1	+0.4		6.1	+0.4
(6.5)	6.1	—		6.1	—
	6.0	+0.5	50	6.1	—
	5.9	+0.6		6.1	+0.1
	5.8	+0.7		6.5	0.0
4+00	5.8	—		6.8	-0.3
	5.8	—		6.6	-0.1
	5.8	—	6+00	6.1	+0.1
	5.8	—		6.1	—
	5.9	+0.6		6.5	0.0
50	5.9	—		6.5	—
	6.0	+0.5		6.5	—
	6.0	—	50	6.1	+0.1
09:35	6.0	—		6.1	—
4+90	6.0	—	6+70	6.1	—

127+00 10-31-17

DIST	SOUND		DIST	SOUND	
~~6+80~~	~~6.3~~	+0.2	8+60	6.0	+0.5
	6.7	-0.2		6.0	—
7+00	6.3	+0.2	(6.5)	6.0	—
	6.1	+0.4		6.0	—
(6.5)	6.1	—	9+00	6.0	—
	6.1	—		6.0	—
	6.0	+0.5		6.0	—
50	6.0	—		6.0	—
	6.0	—		6.0	—
	6.0	—	50	6.0	—
	6.0	—		6.0	—
	6.0	—		6.0	—
8+00	6.0	—		6.0	—
	6.0	—		6.0	—
09:38	6.0	—	10+00	6.0	—
	6.0	—		6.0	—
	6.0	—		6.0	—
9+50	6.0	—	10+30	6.0	—

127+00 10-31-17 (9)

DIST	SOUND		DIST	SOUND
10+10	6.0	+0.5		
50	6.0	—		
	6.0	—		
(6.5)	6.0	—		
	6.0	—		
	6.0	—		
11+00	6.0	—		
09:40				

5-11

10-31-47

128+00

0+00 = STA. 128+00 ON PATERA

SOUND EAST DIST	SOUND		B/L DIST	SOUND	EAST
0+00	4.6	+1.9	1+60	5.5	+1.0
7:10	4.6	—	09:53	5.5	—
09:50	4.6	—		5.8	+0.7
(6.5)	4.5	+2.0	(6.5)	5.7	+0.8
	4.8	+1.7	2+00	5.8	+0.7
50	4.8	—		5.6	+0.9
	4.8	—		5.6	—
	4.8	—		5.8	+0.7
	4.9	+1.6		5.8	—
	4.9	—	50	5.8	—
1+00	4.9	—		5.7	+0.8
	5.0	+1.5		5.7	—
	5.2	+1.3		5.5	+1.0
	5.3	+1.2		5.5	—
	5.7	+0.8	3+00	5.5	—
1+50	5.5	+1.0	3+10	5.4	+1.1

128+00

10-31-47

(10)

DIST	SOUND		DIST (SAME)	SOUND WEST (0+00)	
3+20	5.4	+1.1			
09:55	5.4	—	0+10	4.6	+1.9
	5.4	—	10:02	4.6	—
50	5.4	—		4.6	—
(6.5)	5.4	—	(6.5)	4.6	—
	5.4	—	50	4.7	+1.8
	5.4	—		4.9	+1.6
	5.4	—		5.0	+1.5
4+00	5.4	—		5.1	+1.4
	5.4	—		5.2	+1.3
	5.5	+1.0	1+00	5.6	+0.9
	5.5	—		6.0	+0.5
	5.6	+0.9		7.2	-0.7
50	5.6	—		8.5	-2.0
	5.6	—		10.0	-3.5
	5.5	+1.0	50	11.4	-4.9
	5.5	—		12.0	-5.5
09:58	5.7	+0.8			
5+00	5.7	—	1+70	12.5	-6.0

128+00 10-31-97

DIST	SOUND		DIST	SOUND	
1+80 PX	12.0	-5.5	3+60	6.0	+0.5
	12.3	-5.8	10:05	6.0	—
2+00	12.5	-6.0		5.9	+0.6
	12.5	—	(6.5)	5.9	—
(6.5)	12.0	-5.5	4+00	5.9	—
	9.4	-2.9		5.9	—
	8.0	-1.5		5.9	—
50	7.6	-1.1		5.9	—
	6.6	-0.1		6.0	+0.5
	6.1	+0.4	50	6.0	—
	6.0	+0.5		6.0	—
	6.2	+0.3		6.0	—
3+00	6.8	-0.3		6.0	—
	7.0	-0.5		6.0	—
	6.6	-0.1	5+00	6.0	—
	6.0	+0.5		6.0	—
	6.0	—		6.0	—
3+50	6.0	—	5+30	6.0	—

128+00 10-31-97

DIST	SOUND		DIST	SOUND	
5+40	6.1	+0.4	7+20 PX	6.8	-0.3
50	6.1	—		6.8	—
	6.2	+0.3	(6.5)	6.8	—
(6.5)	6.3	+0.2	50	6.8	—
	6.4	+0.1		6.8	—
	6.4	—		6.9	-0.4
6+00	6.4	—		6.9	—
	6.8	-0.3	10:10	6.9	—
	6.7	-0.2	8+00	6.9	—
	6.7	~		6.9	—
10:08	6.7	—		6.8	-0.3
50	6.8	-0.3		6.8	—
	6.8	—		6.8	—
	6.8	—	50	6.8	—
	6.8	—		6.8	—
	6.8	—		6.8	—
7+00	6.8	—		6.8	—
7+10	6.8	—	8+90	6.7	-0.2

10-31-17

128+00

DIST	SOUND		DIST	SOUND	
9+00	6.7	-0.2	10+80	6.3	+0.2
	6.7	—		6.1	+0.4
(6.5)	6.8	-0.3	11+00	6.1	—
	6.8	—	10:15		
	6.7	-0.2	(6.5)		
50	6.7	—			
	6.7	—			
	6.7	—			
	6.6	-0.1			
	6.5	0.0			
10+00	6.1	+0.1			
	6.3	+0.2			
	6.4	+0.1			
	6.3	+0.2			
	6.3	—			
50	6.3	—			
	6.3	—			
10+70	6.3	—			

10+12 W E

129+00

10-31-17

(12)

0+00 = STA 129+00 ON PATERA B/L : SOUND EAST.

DIST	SOUND		DIST	SOUND	
0+00	4.5	+2.0	1+60	5.4	+1.1
10	4.5	—		5.5	+1.0
10:23	1.6	+1.9	(6.5)	5.5	—
	1.6	—		5.5	—
(6.5)	1.6	—	2+00	5.5	—
50	1.8	+1.7		5.5	—
	1.7	+1.8		5.7	+0.8
	1.8	+1.7		5.8	+0.7
10:25	1.8	—		6.0	+0.5
	1.9	+1.6	50	5.8	+0.7
1+00	1.9	—		5.8	—
	5.0	+1.5		5.8	—
	5.1	+1.4	10:28	5.8	—
	5.2	+1.3		5.8	—
	5.2	—	3+00	5.8	—
1+50	5.2	—	3+10	5.7	+0.8

DIST	SOUND	129+00	DIST	SOUND	10-31-47
3+20	5.7	+0.8	5+00	5.9	+0.6
PX	5.7	—		5.9	—
(6.5)	5.6	+0.9	(6.5)	5.9	—
50	5.6	—		6.1	+0.4
	5.5	+1.0		6.5	0.0
	5.5	—	50	6.0	+0.5
	5.5	—		6.0	—
	5.5	—		6.0	—
4+00	5.5	—		6.0	—
	5.6	+0.9		6.0	—
10:30	5.6	—	6+00	6.0	—
	5.7	+0.8		6.0	—
	5.8	+0.7		5.8	+0.7
50	5.9	+0.6	10:33	5.8	—
	5.9	—		6.0	+0.5
	5.9	—	50	6.0	—
	5.9	—		6.5	0.0
4+90	5.9	—	6+70	6.5	—

DIST	SOUND	129+00	DIST	10-31-47 SOUND	(13)
6+80	6.8	−0.3	8+60	PX 4.5	+2.0
	7.5	−1.0	—	4.5	—
7+00	7.8	−1.3		4.5	—
(6.5)	7.9	−1.4	(6.5)	4.5	—
	8.0	−1.5	9+00	4.5	—
	8.0	—		4.4	+2.1
	7.8	−1.3		4.4	—
50	7.0	−0.5		4.4	—
	5.8	+0.7		4.4	—
	5.1	+1.4	50	4.4	—
	5.0	+1.5		4.4	—
	4.9	+1.6		4.4	—
8+00	4.9	—		4.4	—
10:35	4.8	+1.7		4.4	—
	4.8	—	10+00	4.4	—
	4.8	—		4.4	—
	4.7	+1.8		4.4	—
8+50	4.6	+1.9	10+30	4.4	—

10-31-47

129+00

DIST	SOUND		DIST	SOUND
10+40	4.4	+2.1	SOUND WEST (SAME 0+00)	
50	4.4	—	0+10	4.5 +1.9
(6.5)	5.0	+1.5	10:46	4.5 —
	7.1	−0.6	(6.4)	4.5 —
10:38	10.2	−3.7		4.5 —
	9.8	−3.3	50	4.6 +1.8
11+00	10.0	−3.5		4.7 +1.7
	10.9	−4.4		4.8 +1.6
	11.0	−4.5		5.0 +1.4
	12.0	−5.5		5.1 +1.3
	12.4	−5.9	1+00	5.5 +0.9
50	12.4	—		6.0 +0.4
	12.2	−5.7		7.2 −0.8
	12.0	−5.5		8.3 −1.9
	11.7	−5.2		9.2 −2.8
(6.5)	11.1	−4.6	50	10.0 −3.6
12+00	10.8	−4.3	10:18	10.8 −4.4
10:40			1+70	11.2 −4.8

129+00

10-31-47

DIST	SOUND		DIST	SOUND	
1+80	12.0	−5.6	3+60	5.7	+0.7
	12.3	−5.9		5.5	+0.9
2+00	12.3	—		5.5	—
(6.4)	11.8	−5.4	(6.4)	5.7	+0.7
	10.5	−4.1	4+00	5.7	—
	9.7	−3.3	10:50	5.6	+0.8
	8.4	−2.0		5.6	—
50	8.0	−1.6		5.6	—
	7.0	−0.6		5.6	—
	6.4	0.0	50	5.6	—
	6.1	+0.3		5.8	+0.6
	6.0	+0.4		5.9	+0.5
3+00	6.0	—		5.9	—
	5.8	+0.6		5.9	—
	5.6	+0.8	5+00	5.9	—
	5.6	—		6.0	+0.4
	5.6	—		6.0	—
50	5.7	+0.7	5+30	6.0	—

129+00 10-31-47

DIST	SOUND		DIST	SOUND	
5+90	6.0	+0.4	7+20	6.2	+0.2
50	6.0	—		6.3	+0.1
	6.0	—	(6.4)	6.3	—
(6.4)	6.0	—	50	6.3	—
	6.0	—		6.2	+0.2
	6.0	—		6.2	—
6+00	6.1	+0.3		6.1	+0.3
	6.1	—		6.1	—
	6.1	—	8+00	6.1	—
	6.0	+0.4		6.1	—
	6.0	—		6.2	+0.2
50	6.0	—		6.2	—
	6.0	—		6.2	—
	6.1	+0.3	50	6.2	—
	6.1	—		6.3	+0.1
10:58					
	6.2	+0.2	10:55	6.5	-0.1
7+00	6.1	+0.3		6.5	—
7+10	6.2	+0.2	8+90	6.5	—

(15)

129+00 10-31-47

DIST	SOUND		DIST	SOUND
9+00	6.5	-0.1		
	6.5	—		
(6.4)	6.5	—		
	6.5	—		
	6.5	—		
50	6.7	-0.3		
	6.7	—		
	6.7	—		
	6.7	—		
	6.7	—		
10+00	6.8	-0.4		
10:57				

W 900 E 1500

10-31-47

130+00

PX

0+00 = STA. 130+00 ON PATERA B/L. SOUND EAST

DIST	SOUND		DIST	SOUND	
0+00	4.3	+2.0	1+60	5.0	+1.3
11:06 +10	4.3	—		5.0	—
	4.3	—	(6.3)	5.1	+1.2
(6.3)	4.4	+1.9		5.2	+1.1
	4.4	—	2+00	5.2	—
50	4.4	—		5.2	—
	4.5	+1.8		5.2	—
	4.5	—		5.3	+1.0
	4.5	—		5.3	—
	4.6	+1.7	50	5.3	—
1+00	4.7	+1.6		5.5	+0.8
	4.7	—		5.5	—
	4.8	+1.5		5.6	+0.7
	4.9	+1.4		5.8	+0.5
	5.0	+1.3	3+00	5.9	+0.4
1+50	5.0	—	3+10	5.8	+0.5

10-31-47

130+00

(16)

DIST	SOUND		DIST	SOUND	
3+20	5.7	+0.6	5+00	5.9	+0.3
11:10	5.6	+0.7	PX	5.9	—
	5.5	+0.8	11:13	5.9	—
50	5.5	—	(6.2)	5.9	—
(6.3)	5.5	—		5.8	+0.4
	5.5	—	50	5.8	—
	5.5	—		5.8	—
	5.6	+0.7		5.8	—
4+00	6.0	+0.3		5.9	+0.3
	6.0	—		6.5	−0.3
	5.7	+0.6	6+00	7.0	−0.8
	5.7	—		6.0	+0.2
	5.7	—		5.5	+0.7
50	5.6	+0.7		5.0	+1.2
	5.6	—		4.9	+1.3
(6.3)	5.6	—	50	4.9	—
(6.2)	5.6	+0.6		5.0	+1.2
4+90	5.7	+0.5	6+70	5.0	—

130+00 — 10-31-47

DIST	SOUND		DIST	SOUND	
6+80	5.0	+1.2	8+60	4.5	+1.7
11:15	5.0	—		4.5	—
7+00	4.9	+1.3	(6.2)	4.5	—
(6.2)	4.9	—		4.5	—
	4.9	—	9+00	4.5	—
	4.8	+1.4		4.5	—
	4.7	+1.5		4.5	—
50	4.7	—		4.5	—
	4.6	+1.6	(6.2) 11:18	4.3	+1.9
	4.6	—	50	4.3	+1.8
	4.6	—	(6.1)	4.2	+1.9
	4.6	—		4.2	—
8+00	4.5	+1.7		4.2	—
	4.5	—		4.2	—
	4.5	—	10+00	4.1	+2.0
	4.5	—		4.2	+1.9
	4.5	—		4.2	—
8+50	4.5	—	10+30	4.2	—

130+00 — 10-31-47

DIST	SOUND		DIST	SOUND	
10+90	4.2	+1.9	12+90	12.6	-6.5
50	4.2	—		12.4	-6.3
(6.1)	4.1	+2.0	(6.1)	12.0	-5.9
	4.1	—	50	11.7	-5.6
	4.1	—		11.5	-5.4
	4.1	—		10.8	-4.7
11+00	4.1	—		9.0	-2.9
	4.1	—		6.6	-0.5
	4.1	—	13+00	5.4	+0.7
	4.1	—		5.0	+1.1
	4.8	+1.3		4.8	+1.3
50	8.3	-2.2		4.7	+1.4
	9.8	-3.7	11:23	4.7	—
	9.8	—	50	4.6	+1.5
	10.3	-4.2		4.5	+1.6
	12.2	-6.1		4.5	—
12+00	12.7	-6.6		4.4	+1.7
12+10	12.6	-6.5	13+30	4.4	—

130+00 — 10-31-47

DIST	SOUND		DIST	SOUND	
14+00	4.9	+1.7	0+70	4.9	+1.6
	4.9	—	(6.0)	4.5	+1.5
(6.1)	4.3	+1.8		4.8	+1.2
	4.4	+1.7	1+00	5.2	+0.8
	4.5	+1.6		6.0	-0.0
50	4.5	—		7.1	-1.1
	4.5	—		8.2 ~~8.2~~	-2.2
	4.6	+1.5		9.0	-3.0
	4.6	—	50	10.0	-4.0
(6.1)	4.6	—		10.7	-4.7
11:25 15+00	4.6	—		11.1 ~~7.1~~	5.1 -1.1
SOUND WEST (SAME 0+00)				11.4 ~~2.4~~	5.4 -1.4
0+10	4.3	+1.7		11.8 ~~2.8~~	5.8 -1.8
+20	4.2	+1.8	2+00	11.7 ~~7.7~~	5.7 -1.7
11:32	4.2	—		11.4 ~~7.4~~	5.4 -1.4
(6.0)	4.3	+1.7		10.0	-4.0
50	4.3	—		9.0	-3.0
0+60	4.4	+1.6	2+40	8.5	-2.5

130+00 — 10-31-47 — (18)

DIST	SOUND		DIST	SOUND	
2+50	7.6	-1.6	4+30	5.4	+0.5
	6.8	-0.8		5.4	—
	6.2	-0.2	50	5.4	—
(6.0)	6.0	0.0	(5.9)	5.4	—
(5.9)	6.0	-0.1		5.4	—
3+00	5.8	+0.1		5.5	+0.4
11:35	5.7	+0.2		5.5	—
	5.6	+0.3	5+00	5.5	—
	5.6	—		5.6	+0.3
	5.6	—		5.7	+0.2
50	5.5	+0.4		5.8	+0.1
	5.5	—		5.7	+0.2
	5.5	—	50	5.7	—
	5.4	+0.5		5.7	—
	5.4	—		5.7	—
4+00	5.4	—	11:38	5.6	+0.3
	5.4	—		5.5	+0.4
4+20	5.4	—	6+00	5.5	—

10-31-47

130+00

DIST	SOUND	
6+10	5.5	+0.4
	5.5	—
(5.9)	5.5	—
	5.5	—
50	5.5	—
	5.5	—
	5.5	—
	5.5	—
	5.6	+0.3
7+00	5.6	—
	5.6	—
	5.6	—
	5.8	+0.1
	5.8	—
50	5.8	—
	5.9	0.0
	5.9	—
7+80	5.9	—

DIST	SOUND	
7+90	5.9	0.0
8+00		
11:40	5.9	—
	5.9	—
(5.9)	5.9	—
	5.9	—
50	5.9	—
	5.9	—
	5.9	—
	5.9	—
	5.8	+0.1
	5.8	—
9+00	5.8	—
11:42		

19

10-31-47

131+00

PX

0+00 = STA. 131+00 ON PATERA R/L: SOUND EAST.

DIST	SOUND	
0+00	3.3	+1.6
+10	3.3	—
12:45	3.3	—
(4.9)	3.3	—
	3.4	+1.5
50	3.4	—
	3.4	—
	3.5	+1.4
	3.5	—
	3.5	—
1+00	3.5	—
	3.6	+1.3
	3.7	+1.2
	3.8	+1.1
	3.8	—
1+50	3.8	—

DIST	SOUND	
1+60	3.8	+1.1
	3.9	+1.0
(4.9)	4.0	+0.9
	4.1	+0.8
2+00	4.1	—
	4.0	+0.9
	4.1	+0.8
	4.1	—
12:48	4.2	+0.7
50	4.2	—
	4.3	+0.6
	4.3	—
	4.3	—
	4.5	+0.4
3+00	4.5	—
3+10	4.5	—

131+00 10-31-47

DIST	SOUND		DIST	SOUND	
3+20	1.6	+0.3	5+00	4.6	+0.3
	1.6	—		4.6	—
(4.9)	1.6	—	(4.9)	4.6	—
50	1.6	—		4.6	—
	4.5	+0.4		4.6	—
	4.5	—	50	4.7	+0.2
	4.5	—		4.7	—
	4.5	—		4.5	+0.4
4+00	4.5	—		4.1	+0.8
12:50	4.5	—		3.8	+1.1
	1.6	+0.3	6+00	3.8	—
	4.6	—		3.8	—
	4.6	—		4.0	+0.9
50	4.6	—	(4.9)	4.1	+0.8
	4.6	—	(4.8)	4.2	+0.6
	4.5	+0.4	50	4.4	+0.4
	4.5	—	12:53	4.5	+0.3
4+90	4.5	—	6+70	4.3	+0.5

131+00 10-31-47 (20)

DIST	SOUND		DIST	SOUND	
6+80	4.3	+0.5	8+60	3.5	+1.3
	4.5	+0.3		3.5	—
7+00	4.5	—		3.5	—
(4.8)	4.5	—	(4.8)	3.4	+1.4
	4.5	—	9+00	3.5	+1.3
	4.2	+0.6		3.5	—
	4.1	+0.7		3.5	—
50	4.0	+0.8		3.5	—
	4.0	—		3.5	—
	4.0	—	50	3.5	—
	4.0	—		3.5	—
	3.9	+0.9		3.5	—
8+00	3.9	—		3.5	—
12:55	3.8	+1.0		3.5	—
	3.7	+1.1	10+00	3.5	—
	3.7	—		3.7	+1.1
	3.6	+1.2	12:58	3.7	—
8+50	3.6	—	10+30	3.7	—

DIST	SOUND	131+00	DIST	SOUND	10-31-47
10+10	3.7	+1.1	12+20	3.4	+1.3
50	3.7	—		4.0	+0.7
(4.8)	3.6	+1.2	(4.7)	3.7	-5.0
	3.6	—	50	10.9	-6.2
	3.5	+1.3		12.0	-7.3
	3.5	—		12.0	—
11+00	3.5	—		12.3	-7.6
	3.5	—		12.3	—
	3.4	+1.4	13+00	12.3	—
	3.3	+1.5		12.4	-7.7
	3.2	+1.6		12.0	-7.3
50	3.3	+1.5		11.0	-6.3
(4.8)	3.1	+1.7		9.8	-5.1
(4.7)	3.1	+1.6	50	2.4	-2.7
13:00	3.1	—		5.4	-0.7
	3.1	—		4.8	-0.1
12+00	3.2	+1.5		4.3	+0.4
12+10	3.3	+1.4	13+90	4.1	+0.6

DIST	SOUND	131+00	DIST	10-31-47 SOUND
14+00	4.0	+0.7	0+70	
	4.0	—		
(4.7)	3.7	+1.0		
	3.5	+1.2	1+00	
	3.5	—		
50	3.4	+1.3		
	3.3	+1.4		
	3.1	+1.6		
	3.1	—	50	
	3.4	+1.3		
13:04				
15+00	3.7	+1.0		
SOUND WEST (SAME AT 0+00)				
0+10				
N.G.			2+00	
			—	
50				
0+60			2+40	

132+00 10-31-47

0+00 = STA. 132+00 ON PATERA R/L: SOUND EAST

DIST	SOUND		DIST	SOUND	
0+00 PX	3.0	+1.4	1+70	3.5	+0.9
+10	3.1	+1.3		3.5	—
13:21					
	3.1	—	(4.4)	3.5	—
(4.4)	3.1	—	2+00	3.5	—
	3.1	—		3.5	—
50	3.0	+1.4		3.7	+0.7
	3.0	—		3.8	+0.6
	3.0	—		3.8	—
	3.1	+1.3	50	3.9	+0.5
	3.2	+1.2		3.9	—
1+00	3.2	—		3.9	—
	3.2	—	13:25	3.9	—
	3.3	+1.1		3.9	—
	3.3	—	3+00	4.0	+0.4
	3.4	+1.0		3.9	+0.5
50	3.5	+0.9		3.9	—
1+60	3.5	—	3+30	3.9	—

132+00 10-31-47

DIST	SOUND		DIST	SOUND	
3+40	3.9	+0.5	5+20	4.1 PX	+0.2
50	3.9	—	(4.3)	4.1	—
(4.1)	4.2	+0.2		4.0	+0.3
	4.0	+0.4	50	4.0	—
	4.0	—		4.0	—
	4.0	—		3.8	+0.5
4+00	4.0	—		3.7	+0.6
	4.0	—		3.7	—
	4.5	-0.1	6+00	3.7	—
(4.4)	4.5	—		3.7	—
(4.3)	4.2	+0.1		3.7	—
50	4.0	+0.3	13:30	3.8	+0.5
	4.0	—		4.0	+0.3
13:28					
	4.0	—	50	4.0	—
	4.3	0.0		4.0	—
	4.3	—		4.0	—
5+00	4.3	—		4.0	—
5+10	4.1	+0.2	6+90	3.9	+0.4

DIST	SOUND	132+00	DIST	SOUND	10-31-97
7+00	4.0	+0.3	8+80	3.5	+0.8
	4.0	—		3.5	—
(4.3) PX	4.0	—	9+00	3.5	—
	4.3	0.0		3.5	—
	4.3	—	(4.3)	3.5	—
50	4.1	+0.2	(4.2)	3.5	+0.7
	4.0	+0.3		3.5	—
	4.0	—	50	3.5	—
	4.0	—	13:35	3.5	—
	4.0	—		3.7	+0.5
8+00	4.0	—		3.7	—
13:33	4.0	—		3.7	—
	4.0	—	10+00	3.7	—
	3.9	+0.4		3.7	—
	3.8	+0.5		3.7	—
50	3.8	—		3.7	—
	3.7	+0.6		3.7	—
8+70	3.5	+0.8	10+50	3.7	—

DIST	SOUND	132+00	DIST	SOUND	10-31-97 (23)
10+60	3.8	+0.4	12+90	3.0 PX	+1.2
	3.8	—	50	3.0	—
(4.2)	3.8	—	(4.2)	3.0	—
	3.7	+0.5		3.0	—
11+00	3.4	+0.8	(4.1)	3.0	+1.1
	3.3	+0.9		3.0	—
	3.0	+1.2	13+00	7.2	-3.1
	3.0	—	13:10	9.7	-5.6
	3.0	—		11.0	-6.9
50	3.0	—		11.7	-7.6
	3.0	—		11.8	-7.7
	3.0	—	50	11.8	—
	3.0	—		11.7	-7.6
	3.0	—		11.5	-7.4
12+00	3.1	+1.1		10.5	-6.4
	3.2	+1.0		9.4	-5.3
	3.4	+0.8	14+00	8.1	-4.0
12+30	3.4	—	14+10	6.6	-2.5

DIST	SOUND	132+00	DIST	SOUND	10-31-47
14+20	5.2	-1.1			
	5.0	-0.9			
(4.1)	4.6	-0.5			
50	4.6	—			
	4.5 ~~4.0~~	-0.4			
	4.3	-0.2			
	3.8	+0.3			
	3.0	+1.1			
15+00	2.7	+1.4			

PX

133+00 10-31-47 (21)

0+00=STA-133+00 ON PATERA B/L: SOUND EAST.

DIST	SOUND		DIST	SOUND	
0+00	3.0	+0.9	1+70	3.0	+0.9
+10	3.0	—	(3.9)	3.0	—
13:55	3.0	—		3.1	+0.8
(3.9)	3.1	+0.8	2+00	3.1	—
	3.1	—		3.2	+0.7
50	3.0	+0.9		3.2	—
	3.0	—		3.2	—
	3.0	—	(3.9)	3.1	+0.8
	3.0	—	50	3.1	—
	3.0	—	14:00	3.1	—
1+00	3.0	—	(3.8)	3.2	+0.6
	3.0	—		3.3	+0.5
	3.0	—		3.3	—
13:58	3.0	—	3+00	3.3	—
	3.0	—		3.4	+0.4
50	3.0	—		3.5	+0.3
1+60	3.0	—	3+30	3.5	—

PX

133+00

DIST	SOUND		DIST	SOUND	
3+10	3.5	+0.3	5+20	3.6	+0.2
50	3.4	+0.4		3.5	+0.3
(3.8)	3.5	+0.3	(3.8)	3.5	—
	3.6	+0.2	50	3.6	+0.2
	3.5	+0.3	14:05	3.8	0.0
	3.5	—	(3.7)	3.8	-0.1
4+00	3.5	—		3.8	—
	3.5	—		3.7	0.0
	3.5	—	6+00	3.7	—
	3.5	—		3.6	+0.1
14:07	3.6	+0.2		3.5	+0.2
50	3.6	—		3.5	—
	3.9	-0.1		3.5	—
	3.9	—	50	3.5	—
	3.9	—		3.5	—
	3.8	0.0		3.5	—
5+00	3.8	—		3.5	—
5+10	3.7	+0.1	6+90	3.5	—

133+00

DIST	SOUND		DIST	SOUND	
7+00	3.6	+0.1	8+80	3.5	+0.2
(3.7)	3.4	+0.3	(3.7)	3.5	—
	3.2	+0.5	9+00	3.6	+0.1
	3.1	+0.6		3.6	—
14:08	3.6	+0.1		3.6	—
50	3.6	—		3.7	0.0
—	3.6	—		3.7	—
	3.6	—	50	3.4	+0.3
	1.0	-0.3		3.4	—
	4.0	—		3.4	—
8+00	4.0	—		3.4	—
	4.1	-0.4	(3.7)	3.4	—
	4.1	—	10+00	3.4	—
	3.9	-0.2	14:13	3.4	—
14:10	3.7	0.0	(3.6)	3.4	+0.2
50	3.6	+0.1		3.4	—
	3.7	0.0		3.4	—
8+70	3.5	+0.2	10+50	3.7	-0.1

133+00 — 10-31-47

DIST	SOUND		DIST	SOUND	
10+60	3.8	-0.2	12+40	3.0	+0.6
	3.8	—	50	3.0	—
(3.6)	3.8	—	(3.6)	3.0	—
	3.2	+0.4		3.0	—
11+00	3.2	—		3.0	—
	3.3	+0.3		3.0	—
14:15	3.4	+0.2	13+00	3.0	—
	3.4	—		3.1	+0.5
	3.4	—		3.0	+0.6
50	3.4	—		3.0	—
	3.4	—	14:18	3.0	—
	3.4	—	50	3.2	+0.4
	3.4	—	(3.6)	6.8	-3.2
	3.4	—	(3.5)	8.9	-5.4
12+00	3.3	+0.3		10.0	-6.5
	3.3	—		10.2	-6.7
	3.2	+0.4	14+00	10.2	—
12+30	3.1	+0.5	14+10	10.2	—

133+00 — 10-31-47 — (26)

DIST	SOUND		DIST	SOUND	
14+20	10.1	-6.6	16+00	2.5	+1.0
(3.5)	9.8	-6.3	(3.5)		
	8.8	-5.3			
50	7.7	-4.2			
14:20	6.7	-3.2			
	5.6	-2.1			
	5.0	-1.5			
	4.9	-1.4			
15+00	4.0	-0.5			
	3.0	+0.5			
	4.5	-1.0			
	4.2	-0.7			
	2.8	+0.7			
50	2.7	+0.8			
	2.7	—			
	2.4	+1.1			
	2.4	—			
15+90	2.4	—			

134+00 10-31-97

0+00=STA 134+00 ON PATERA B/L: SOUND EAST

PX

DIST	SOUND		DIST	SOUND	
0+00	3.2	+0.1	1+60	2.5	+0.8
14:36	3.1	+0.2		2.5	—
	3.0	+0.3	14:38	2.5	—
(3.3)	2.8	+0.5	(3.3)	2.5	—
	2.8	—	2+00	2.5	—
50	2.7	+0.6		2.5	—
	2.8	+0.5		2.5	—
	2.7	+0.6		2.5	—
	2.6	+0.7		2.5	—
	2.6	—	50	2.5	—
1+00	2.6	—		2.5	—
	2.6	—		2.6	+0.7
	2.5	+0.8		2.6	—
	2.5	—		2.6	—
	2.5	—	3+00	2.6	—
1+50	2.5	—	3+10	2.7	+0.6

134+00 10-31-97

PX

DIST	SOUND		DIST	SOUND	
3+20	2.8	+0.5	5+00	3.3	0.0
	2.9	+0.4		3.3	—
(3.3)	2.9	—	(3.3)	3.3	—
50	2.9	—		3.2	+0.1
	3.0	+0.3		3.1	+0.2
	3.0	—	50	3.1	—
	3.0	—		3.0	+0.3
14:40	3.0	—		3.0	—
4+00	3.0	—		3.0	—
	3.0	—		3.1	+0.2
	3.0	—	6+00	3.3	0.0
	3.0	—		3.3	—
	3.2	+0.1		3.3	—
50	3.2	—		3.3	—
	3.2	—		3.3	—
	3.2	—	50	3.3	—
	3.3	0.0		3.3	—
4+90	3.3	—	6+70	3.3	—

134+00

DIST	SOUND	
6+80	3.1	-0.1
14:43	3.4	—
7+00	3.4	—
(3.3)	3.2	+0.1
	3.1	+0.2
	3.1	—
	3.1	—
50	3.1	—
	3.1	—
	3.1	—
	3.1	—
	3.0	+0.3
8+00	3.0	—
	3.1	+0.2
	3.1	—
	3.0	+0.3
	3.1	+0.2
8+50	3.1	—

DIST	SOUND	
8+60	3.4	-0.1
	3.5	-0.2
(3.3)	3.8	-0.5
(3.2)	3.8	-0.6
9+00	3.7	-0.5
	3.7	—
	3.5	-0.3
	3.5	—
14:15	3.8	-0.6
50	3.6	-0.4
	3.5	-0.3
	3.5	—
	3.5	—
10+00	3.7	-0.5
	3.8	-0.6
	3.5	-0.3
10+30	3.5	—

134+00

DIST	SOUND	
10+40	3.6	-0.4
50	3.8	-0.6
(3.2)	3.9	-0.7
	3.5	-0.3
	3.5	—
	3.5	—
11+00	3.6	-0.4
	3.8	-0.6
	3.9	-0.7
	3.9	—
	3.7	-0.5
50	3.5	-0.3
	3.5	—
	3.5	—
	3.5	—
	3.3	-0.1
12+00	3.3	—
12+10	3.2	0.0

DIST	SOUND	
12+20	3.1	+0.1
14:48	3.0	+0.2
(3.2)	3.0	—
50	3.0	—
	3.0	—
	3.1	+0.1
	3.0	+0.2
	3.0	—
	3.0	—
13+00	3.0	—
	3.0	—
	3.0	—
	3.1	+0.1
	3.2	0.0
50	3.5	-0.3
	3.5	—
	3.6	-0.4
14:50	3.5	-0.3
13+90	3.2	0.0

DIST	SOUND		DIST	SOUND	
		134+00			10-31-47
14+00	3.5	-0.3	15+80	2.1	+1.1
	5.3	-2.1		2.2	+1.0
(3.2)	6.5	-3.3	16+00	2.2	—
	7.2	-4.0	(3.2)	2.1	+1.1
	7.7	-4.5		2.0	+1.2
50	8.0	-4.8		2.0	—
	8.0	—	14:53	1.8	+1.4
	8.0	—	50	1.8	—
	8.0	—		1.8	—
	7.8	-4.6		1.8	—
15+00	7.5	-4.3		1.8	—
	7.0	-3.8		1.8	—
	6.8	-3.6	17+00	1.8	—
	6.0	-2.8			
	5.2	-2.0			
50	4.5	-1.3			
	3.7	-0.5			
15+70	2.8	+0.4			

BARRAGAN
SHERRY
STANLEY

12-10-47
FAIR WIND
CLEAR
COOL

(29)

SOUNDINGS OF PATERA ISLAND PROJ #3-1

STA- 109+00

0+00 = STA- 109+00 PATERA B/L. SOUND WEST AT 90° TO B/L.

DIST	SOUND		DIST	SOUND	
SOUND WEST					
			1+40	2.1	+3.4
0+00	4.3	+1.2	50	2.2	+3.3
+10	4.3	—	(5.5)	2.2	—
09:55					
(5.5)	4.8	+0.7		2.1	+3.4
	4.6	+0.9		2.0	+3.5
	4.6	—		1.9	+3.6
50	4.1	+1.4	2+00	1.9	—
	4.1	—		1.8	+3.7
	3.0	+2.5		1.8	—
	2.5	+3.0	09:58	1.8	—
	2.4	+3.1		1.9	+3.6
1+00	2.4	—	50	2.0	+3.5
	2.5	+3.0		2.0	—
	2.2	+3.3		2.0	—
1+30	2.3	+3.2	2+80	1.8	+3.7

STA - 109+00 12-

DIST	SOUND		DIST	SOUND	
2+90	1.8	+3.7	4+70	1.3	+4.2
3+00	1.8	—		1.3	—
	1.8	—	(5.5)	1.3	—
(5.5)	1.8	—	5+00	1.3	—
	1.8	—		1.2	+4.3
	1.8	—		1.2	—
50	1.8	—		1.3	+4.2
	1.8	—		1.3	—
	1.6	+3.9	50	1.3	—
	1.6	—		1.6	+3.9
	1.6	—		1.8	+3.7
4+00	1.5	+4.0		2.1	+3.4
	1.4	+4.1		2.1	—
	1.4	—	6+00	2.1	—
	1.4	—	10:06		
	1.5	+4.0			
50	1.5	—			
4+60	1.4	+4.1			

STA - 108+00 12-10-47 (30)

0+00 = STA 108+00 ON PATERSON B/L; SOUND WEST AT 90° TO B/L.

DIST	SOUND		DIST (09:12 12-12-47)	SOUND	
SOUND WEST			1+60	2.5	+3.8
0+00	4.1	+1.2		2.5	—
+10	4.2	+1.1	~~5.9~~	2.3	+4.0
10:16	4.2	—		2.0	+4.3
(5.3)	4.2	—	2+00	2.0	—
	4.1	+1.2	(6.3)	2.0	—
50	4.0	+1.3		2.0	—
	4.0	—		2.1	+4.2
	3.8	+1.5		2.1	—
	3.5	+1.8	50	2.1	—
	3.5	—		2.1	—
1+00	3.3	+2.0		1.8	+4.5
	3.2	+2.1		1.8	—
	3.2	—		1.8	—
	2.8	+2.5	3+00	1.8	—
(5.3)	2.0	+3.3		1.9	+4.4
1+50	2.0 ~~2.6~~	—	3+20	1.9	—

STA - 108+00 12-12-47

DIST	SOUND		DIST	SOUND	
3+30	1.8	+4.5	5+10	1.7	+4.6
	1.9	+4.4		2.0	+4.3
50	2.0	+4.3		2.6	+3.7
09:15	1.8	+4.5		2.8	+3.5
	1.8	—	50	3.0	+3.3
(6.3)	1.7	+4.6	(6.3)	3.2	+3.1
	1.8	+4.5		3.0	+3.3
4+00	1.7	+4.6		3.5	+2.8
	1.7	—		3.3	+3.0
	1.7	—	6+00	3.3	—
	1.7	—	09:19		
	1.7	—			
50	1.7	—			
	1.6	+4.7			
	1.6	—			
	1.6	—			
	1.6	—			
5+00	1.6	—			

STA - 107+00 12-10-47 (31)

0+00 = STA 107+00 ON PATERA B/L : SOUND WEST AT 90° TO B/L

DIST	SOUND		DIST	SOUND	
0+00	4.8	+0.4	1+70	2.6	+2.6
+10	4.6	+0.6		2.4	+2.8
10:31	4.5	+0.7	(5.2)	2.0	+3.2
(5.2)	4.3	+0.9	2+00	1.7	+3.5
	3.9	+1.3	10:37	1.5	+3.7
50	3.9	—		1.5	—
	3.6	+1.6	(5.2)	1.3	+3.9
	3.4	+1.8	(5.1)	0.7	+4.4
	3.1	+2.1	50	0.7	—
	3.2	+2.0		0.6	+4.5
1+00	3.2	—		0.6	—
	3.2	—		0.8	+4.3
	3.3	+1.9	10:32	0.5	+4.6
	3.1	+2.1	3+00	0.5	—
	3.1	—		0.4	+4.7
50	2.8	+2.4		0.4	—
1+60	2.6	+2.6	3+30	0.4	—

STA-107+00 12-10-47

DIST	SOUND		DIST	SOUND
3+40	0.4	+4.7		
50	0.6	+4.5		
(5.1)	0.7	+4.4		
	0.9	+4.2		
	1.2	+3.9		
	1.2	—		
4+00	1.3	+3.8		
	1.4	+3.7		
	1.6	+3.5		
	1.8	+3.3		
	1.7	+3.4		
50	1.8	+3.3		
	2.0	+3.1		
	2.1	+3.0		
	2.1	—		
	2.2	+2.9		
5+00	2.2	—		

10:35

STA-106+00 12-10-47 (32)

0+00 = STA-106+00 ON PATERA B/L: SOUND WEST AT 90° TO B/L.

DIST	SOUND		DIST	SOUND	
0+00	7.7	-2.8	1+70	1.5	+3.4
+10	7.5	-2.6		1.5	—
10:42	7.3	-2.4	10:45	1.6	+3.3
(4.9)	6.1	-1.2	2+00	1.6	—
	4.8	+0.1	(4.9)	1.6	—
50	4.0	+0.9		1.6	—
	4.0	—		1.7	+3.2
	3.2	+1.7		1.6	+3.3
	3.3	+1.6	50	1.6	—
	3.1	+1.8		1.8	+3.1
1+00	3.0	+1.9		1.6	+3.3
	3.0	—		1.6	—
	3.1	+1.8		1.7	+3.2
	3.0	+1.9	3+00	1.5	+3.4
	2.2	+2.7		1.5	—
50	1.8	+3.1		1.7	+3.2
1+60	1.5	+3.4	3+30	1.5	+3.4

12-10-47

STA-106+00

DIST	SOUND		DIST	SOUND
3+40	1.5	+3.4	5+20	
50	1.5	—		
	1.5	—		
(4.9)	1.5	—	50	
	1.5	—		
10:48	1.5	—		
4+00	1.6	+3.3		
	1.6	—		
	1.7	+3.2	6+00	
	1.8			
	1.8			
50	1.8			
	1.8			
	2.0			
	2.0			
	2.1			
10:50				
5+00	2.2			
5+10				

12-10-47

(33)

STA-105+00

0+00=STA-105+00 ON PATERA B/L: SOUND WEST AT 90° TO B/L.

DIST	SOUND	DIST	SOUND
0+00	8.6	1+70	2.2
+10	8.5		2.0
10:57	8.4	(4.6)	1.7
(4.6)	8.1	2+00	1.6
	8.0	11:00	1.5
50	8.0		1.4
	7.6		1.5
	7.4		1.5
	7.2	50	1.5
	6.2		1.5
1+00	4.8		1.4
	3.8		1.4
	3.1		1.4
	2.8	3+00	1.4
	2.1		1.3
50	2.0		1.2
1+60	2.0	3+30	1.3

STA-105+00 12-10-47

DIST	SOUND	DIST	SOUND
3+10	1.2		
50	1.2		
(4.6)	1.2		
	1.5		
	1.8		
	2.0		
4+00	2.0		
	2.1		
	2.1		
11:03	2.1		
	2.2		
50	2.2		
	2.2		
	2.4		
	2.5		
	2.8		
5+00	3.1		
11:05			

STA-104+00 12-10-47 (37)

0+00=STA-104+00 ON PATERA B/L. SOUND WEST AT 90° TO B/L.

DIST	SOUND	DIST	SOUND
0+00	8.0	1+70	3.6
+10	8.0	11:15	2.8
11:12	8.2	(4.4)	2.0
(4.4)	8.1	2+00	1.6
	8.2		1.4
50	8.2		1.3
	8.0		1.1
	7.8		1.1
	8.0	50	1.1
	8.0		1.2
1+00	7.7		1.2
	7.1		1.1
	6.8		1.1
	6.3	3+00	1.1
	5.0		1.8
50	4.0		2.0
1+60	3.7	3+30	2.1

STA-104+00 12-10-17

DIST	SOUND	DIST	SOUND
3+10	2.3		
50	2.7		
(1.4)	2.8		
	2.9		
11:18	2.9		
	3.0		
4+00	3.2		
	3.5		
	3.5		
	3.5		
	3.4		
50	3.5		
	3.6		
11:20	3.8		
	4.0		
	4.1		
5+00	5.0		

107+00 12-10-17 (35)

0+00 = STA-107+00 ON PATERA B/L. : SOUND EAST AT 90° TO B/L.

DIST	SOUND	DIST	SOUND
0+00		1+70	7.3
+10	2.0		7.1
13:10	2.7	(2.6)	7.0
(2.6)	7.2	2+00	6.9
	5.8		6.8
50	6.0		6.5
	6.6		6.1
	7.0		6.0
	7.5	50	5.6
	7.7		5.3
1+00	7.5		5.0
	7.5		5.0
	7.8		5.0
13:13	7.6	3+00	4.8
	7.5		4.3
50	7.4		4.4
1+60	7.3	3+30	4.4

12-16-97

STA-107+00

DIST	SOUND	DIST	SOUND
3+40	4.4		
50	4.4		
(2.6)	3.8		
	3.1		
	2.5		
	1.5		
4+00	0.8		
13:16			

12-10-97

(36)

STA-106+00

0+00 = STA-106+00 ON PATERA B/L: SOUND EAST AT 90° TO B/L.

DIST	SOUND	DIST	SOUND
0+00		1+70	6.0
+10	6.5		6.2
13:20	6.6	(2.5)	6.2
(2.5)	6.8	2+00	6.1
	7.1		6.0
50	7.1		6.0
	7.1		5.9
	7.0		5.9
	7.0	50	5.9
	6.8		5.6
1+00	6.9		5.2
	6.8		4.8
	6.8		4.4
	6.6	3+00	4.0
	6.6		4.0
50	6.3		2.5
1+60	6.0	3+30	3.8

12-10-47

STA-105+00

0+00 = STA-105+00 ON PATERA B/L : SOUND EAST AT 90° TO B/L

DIST	SOUND	DIST	SOUND
0+00		1+70	6.9
+10	6.4		6.9
13:28	6.5	(2.4)	6.9
(2.4)	6.3	2+00	6.9
	6.4		6.8
50	6.4		6.8
	6.3		6.8
	6.1		6.7
	6.0	50	6.1
	6.0		5.2
1+00	6.1		4.3
	6.2		4.1
	6.2		4.3
	6.2	3+00	4.1
13:30	6.6	13:32	
50	6.5		
1+60	6.7		

STA-104+00

(37)

12-10-47

0+00 = STA-104+00 ON PATERA B/L : SOUND EAST AT 90° TO B/L

DIST	SOUND	DIST	SOUND
0+00		1+70	7.7
+10	6.0		7.7
13:35	6.0	(2.3)	7.2
(2.3)	6.0	2+00	7.1
	6.1		6.8
30	6.1		6.6
	6.1		6.2
	6.3		6.0
	6.6	50	6.0
	6.9		6.0
1+00	7.0		5.8
	7.1		5.8
	7.6		5.8
	7.6	3+00	5.7
	7.5	13:40	
50	7.6		
13:38			
1+60	7.7		

12-10-97

STA-103+00

0+00 = STA 103+00 ON PATERA B/L: SOUND EAST AT 90° TO B/L.

DIST	SOUND	DIST	SOUND
0+00		1+70	7.7
+10	6.7		7.7
13:49	6.8	(2.2)	7.3
(2.2)	7.0	2+00	7.0
	7.5		
50	7.5		
	7.8		
	8.0		
	8.4		
	8.4		
1+00	8.1		
	8.0		
	8.7		
	8.5		
	8.5		
50	8.3		
1+60	7.8		

12-10-97

(38)

STA-102+00

0+00 = STA-102+00 ON PATERA B/L: SOUND EAST AT 90° TO B/L.

DIST	SOUND	DIST	SOUND
0+00		1+70	7.0
+10	8.4		6.8
13:50	8.4	(2.1)	6.9
(2.1)	8.3	2+00	6.7
	8.3		5.8
50	8.5		5.7
	8.6		4.8
	8.5		4.5
	8.4	50	3.8
	8.4		3.8
1+00	8.4		3.7
	8.4		2.7
	8.0		2.4
	7.6	3+00	2.1
	7.4		2.2
50	7.2		2.4
1+60	7.0	13:54 3+30	2.4

12-10-47

STA-101+00

0+00 = STA-101+00 ON PATERA B/L. : SOUND EAST AT 90° TO B/L.

DIST	SOUND
0+00	
+10	7.0
13:57	
	7.2
(2.0)	7.3
	7.2
50	7.0
	7.0
	6.7
	6.5
	6.4
1+00	6.0
	5.7
	5.8
	6.3
	6.0
50	5.8
1+60	5.7

DIST	SOUND
1+70	5.0
	4.2
(2.0)	3.2
2+00	2.7
	2.0
	1.0
2+30	0.5
14:00	
50	

12-12-47
BARRAGAN
SHERRY
STANLEY

(39)

STA-108+00

0+00 = STA-108+00 ON PATERA B/L. : SOUND EAST AT 90° TO B/L.

DIST	SOUND
0+00	
+10	4.4
09:33	
	4.3
	4.0
(6.3)	4.0
50	4.0
	4.1
	4.8
	6.0
	9.1
1+00	9.8
	10.0
	10.5
	10.8
	11.0
50	11.1
1+60	11.4

DIST	SOUND
1+70	11.5
	11.5
	11.6
2+00	11.6
	11.5
09:35	
	11.2
(6.3)	11.0
	11.0
50	11.0
	10.7
	10.1
	9.5
	9.0
3+00	8.5
	8.1
	8.0
3+30	8.0

STA-108+00 12-12-97

DIST	SOUND	DIST	SOUND
3+40	8.2		
50	8.0		
	8.0		
	8.1		
(6.2)	8.2		
	7.8		
4+00	7.0		
	6.0		
	4.0 ~~6.0~~		
	3.0		
	2.7		
50	2.1		
4+60	2.1		
09:38			

STA-109+00 12-12-97 (40)

0+00 = STA-109+00 ON PATERRA B/L: SOUND EAST AT 90° TO B/L

DIST	SOUND	DIST	SOUND
0+00		1+70	10.6
+10	5.0	09:45	11.2
09:43	5.1		11.8
	5.0	2+00	12.2
	4.3		12.2
50	4.0		12.4
(6.2)	3.7	(6.2)	12.1
	4.0		12.1
	4.0	50	12.1
	3.7		12.2
1+00	3.4		12.0
	3.4		11.8
	4.5		11.0
	6.4	3+00	10.6
	9.0		10.1
50	9.4		9.7
1+60	10.0	3+30	9.0

STA-109+00 12-12-97

DIST	SOUND
3+10	8.1
50	8.0
	8.2
	8.2
	8.1
	8.1
4+00	8.0
	7.6
(6.1)	6.4
	5.0
09:48	3.5
50	2.7
	2.4
	2.4
	2.3
	2.3
5+00	2.2
5+10	2.1

DIST	SOUND
5+20	2.1
	2.1
(6.1)	2.0
50	2.0
5+60	2.0
09:50	

STA-103+00 12-12-97 (41)

0+00=STA-103+00 ON PATERA B/L. SOUND WEST AT 90° TO B/L.

DIST	SOUND
0+00	9.5
10	9.4
10:10	9.1
	9.0
(5.6)	9.0
30	9.0
	9.0
	9.0
	9.0
	9.0
1+00	9.1
	9.1
	9.1
	9.3
	9.2
50	8.2
1+60	7.3

DIST	SOUND
1+70	7.2
	6.5
	5.3
2+00	4.3
	3.3
(5.6)	2.8
	2.7
	2.6
50	2.6
	2.8
	3.0
	3.0
	3.1
3+00	3.3
	3.4
	3.3
3+30	3.4

STA-103+00 12-12-47

DIST	SOUND	DIST	SOUND
3+40	3.8		
50	4.0		
10:43	4.0		
	4.1		
	4.1		
	4.1		
4+00	4.1		
	4.2		
(5.5)	4.2		
	4.2		
	4.2		
50	4.1		
	4.0		
	3.8		
	3.5		
	3.4		
5+00	3.4		
10:45			

STA-102+00 12-12-47 (72)

0+00 = STA-102+00 ON PATERO B/L : SOUND WESTAT 90° TO B/L.

DIST	SOUND	DIST	SOUND
0+00	11.4	1+70	9.0
+10	11.2		9.0
10:50	11.1		8.8
	11.0	2+00	8.5
	11.0		7.3
50	11.0		6.5
	10.8	10:53	5.0
(5.5)	10.2		4.0
	9.8	50	3.2
	9.7		3.0
1+00	9.7	(5.4)	3.0
	9.6		3.2
	9.5		3.2
	9.5	3+00	3.2
	9.5		3.2
50	9.3		3.1
1+60	9.1	3+30	3.1

STA-102+00 12-12-47

DIST	SOUND
3+40	3.0
50	3.0
	3.1
	3.4
(5.4)	3.4
	3.2
4+00	3.0
10:55	3.0
	3.0
	3.0
	3.0
50	3.0
	3.1
	3.1
	3.4
	3.4
5+00	~~4~~.0
11:59	4.5

STA-101+00 12-12-47 (93)

0+00=STA-101+00 ON PATERA Bk.: SOUND WEST AT 90° TO Bk.

DIST	SOUND
0+00	10.0
+10	10.0
11:01	10.0
	10.1
	10.1
50	10.2
	10.5
(5.3)	11.0
	11.3
	11.1
1+00	11.2
	11.1
	11.4
	11.5
	11.5
50	11.4
1+60	11.1

DIST	SOUND
1+70	11.1
	10.8
	10.0
2+00	9.5
	9.0
	8.2
	7.7
(5.3)	7.5
50	7.0
	5.8
	4.5
	3.5
	3.0
3+00	2.9
	2.9
	2.9
3+30	2.9

12-12-17

101+00

DIST	SOUND	DIST	SOUND
3+40	2.9		
50	2.9		
11:07	3.0		
	3.0		
(5.3)	3.0		
	3.0		
4+00	3.0		
	3.0		
	3.2		
	3.2		
	4.0		
50	4.5		
	5.0		
	6.0		
	6.9		
	7.4		
5+00	7.5		
11:08			

12-12-17

(77)

STA-100+00

0+00 = STA-100+00 ON PATERA B/L; SOUND WEST AT 90° TO B/L.

DIST	SOUND	DIST	SOUND
0+00	11.6	1+70	12.0
+10	11.5		11.8
11:17	11.4		11.7
	11.2	2+00	11.7
(5.2)	11.1		11.3
50	11.2		10.7
	11.1	(5.2)	9.6
	11.2		8.5
	11.4	50	8.3
	11.5		7.5
1+00	11.9		6.5
	12.0		6.1
	12.2	11:17	5.5
	12.3	3+00	4.7
	12.5		4.5
50	12.5		4.5
1+60	12.3	3+30	4.3

STA-100+00

12-12-47

DIST	SOUND	DIST	SOUND
3+10	4.4		
50	5.0		
	7.5		
	5.5		
	5.2		
	5.2		
4+00	5.5		
	5.0		
5.1	5.0		
	5.8		
	7.0		
50	7.0		
	7.0		
	7.3		
	8.3		
	9.2		
5+00	9.8		
11:20			

FINAL

BARRAGAN
SHERRY
STANLEY

1-9-48
CALM
CLEAR
WARM

(45)

SOUNDINGS OF EAST BAY APPROACH

CHANNEL SECTION "D" & BORROW AREA

STA-43+00 OR STA-#2 WEST

0+00 = STA-#2 WEST ON 300' OFFSET LINE; SECT. AT 90° TO LINE.

DX

SOUND SOUTH

DIST	SOUND		DIST	SOUND.	
0+00	4.5	+0.8	1+30	19.0	-13.7
+10	4.5	—	5.3	19.5	-14.2
10:19	4.5	—	50	19.5	—
5.3	4.5	—		19.5	—
	4.5	—		19.5	—
50	4.5	—		19.5	—
	4.5	—	10:48	19.7	-14.4
	4.5	—	2+00	19.8	-14.5
	10.7	-5.4		20.0	-14.7
	16.4	-11.1		20.0	—
1+00	19.6	-14.3		19.8	-14.5
	19.4	-14.1		19.6	-14.3
1+20	19.0	-13.7	2+50	20.0	-14.7

STA. #1 WEST 1-9-48

DIST	SOUND		DIST	SOUND	
2+60	20.3	-15.0	4+10	17.8	-12.5
(5.3)	19.4	-14.1	50	18.0	-12.7
10:50	20.5	-15.2	(5.3)	18.2	-12.9
	20.5	—	10:53	18.3	-13.0
3+00	20.0	-14.7		18.3	—
	19.4	-14.1		18.3	—
	17.7	-12.4	5+00	18.5	-13.2
	17.3	-12.0		19.5	-14.2
	17.5	-12.2		19.2	-13.9
50	17.5	—		13.3	-8.0
	17.5	—		7.0	-1.7
	17.3	-12.0	50	7.0	—
	17.3	—		6.8	-1.5
	17.3	—		7.3	-2.0
4+00	17.3	—		6.8	-1.5
	17.5	-12.2		6.8	—
	17.5	—	6+00	7.4	-2.1
4+30	17.5	—	6+10 6+20	6.8 6.7	-1.5 -1.4

STA. #2 WEST 1-9-48 (76)

0+00 = STA. #2-WEST ON 300' OFFSET LINE: SECT. AT 90° TO LINE

SOUND SOUTH

DIST	SOUND		DIST	SOUND	
0+00	4.0	+1.2	1+20	17.8	-12.6
+10	4.0	—	(5.2)	17.9	-12.7
11:02	4.0	—		18.0	-12.8
(5.2)	4.0	—	2+00	18.5	-13.3
	4.1	+1.1		18.5	—
50	4.1	—		18.5	—
	4.7	+0.5		18.1	-12.9
	9.1	-3.9		18.1	—
	15.3	-10.1	11:07 50	18.1	—
	19.0	-13.8		18.5	-13.3
1+00	19.0	—		18.4	-13.2
	18.5	-13.3		19.4	-14.2
	18.2	-13.0		18.8	-13.6
	18.0	-12.8	3+00	19.5	-14.3
	17.8	-12.6		19.5	—
50	17.4	-12.2		18.7	-13.5
1+60	17.7	-12.5	3+30	17.2	-12.0

STA - # 2-WEST 1-9-18

DIST	P/X SOUND		DIST	SOUND	
3+40	17.8	-12.6	5+20	20.7	-15.5
50	18.5	-13.3	(5.2)	20.9	-15.2
(5.2)	18.8	-13.6		20.0	-14.8
	18.8	—	50	20.0	—
	19.2	-14.0		20.0	—
	19.5	-14.3		20.2	-15.0
4+00	20.0	-14.8		20.0	-14.8
	20.2	-15.0		20.0	—
	20.2	—	6+00	20.4	-15.2
	20.2	—	(3.2)	20.4	—
	20.3	-15.1	(5.1)	20.0	-14.9
50	20.4	-15.2		19.4	-14.3
	20.4	—	11:15	16.0	-10.9
	20.5	-15.3	50	13.5	-8.4
	20.5	—		7.0	-1.9
	20.5	—		5.1	0.0
11:12					
5+00	20.5	—		4.7	+0.4
5+10	20.7	-15.5	6+90	4.4	+0.7

STA - # 2-WEST 1-9-18 (47)

DIST	SOUND		DIST	P/X SOUND
7+00	4.4	+0.7		
	4.3	+0.8		
(5.1)	4.3	—		
	4.2	+0.9		
	4.2	—		
50	4.2	—		
11:17				

STA - #3-WEST 1-9-48

0+00 = STA - #3-WEST ON 300' OFFSET LINE: SECT. AT 90° TO LINE

SOUND SOUTH DIST	SOUND		DIST	SOUND	
0+00	3.9	+0.9	1+70	18.0	-13.2
+10	3.9	—	11:27	17.5	-12.7
11:24	3.9	—	(4.8)	17.5	—
(4.8)	3.9	—	2+00	17.7	-12.9
	4.0	+0.8		18.0	-13.2
50	4.0	—		17.8	-13.0
	9.0	-4.2		17.4	-12.6
	13.5	-8.7		17.4	—
	18.1	-13.3	50	18.0	-13.2
	18.8	-14.0		18.2	-13.4
1+00	19.0	-14.2		18.0	-13.2
	18.8	-14.0	(4.8)	17.8	-13.0
	18.5	-13.7	(4.7)	17.8	-13.1
	18.5	—	3+00	17.5	-12.8
	18.3	-13.5		18.0	-13.3
50	18.2	-13.4	11:30	16.8	-12.1
1+60	18.0	-13.2	3+30	15.2	-10.5

STA - # 3-WEST 1-9-48

DIST	SOUND		DIST	SOUND	
3+40	18.0	-13.3	5+20	22.8	-18.1
50	18.3	-13.6		21.0	-16.3
(4.7)	18.1	-13.4	(4.7)	20.4	-15.7
	18.4	-13.7	(4.6) 50	20.5	-15.9
	18.4	—	11:35	21.0	-16.4
	17.8	-13.1		21.0	—
4+00	18.0	-13.3		21.0	—
	21.4	-16.7		20.0	-15.4
	22.0	-17.3	6+00	20.8	-16.2
	22.2	-17.5		20.0	-15.4
	22.5	-17.8		19.6	-15.0
50	22.5	—		16.0	-11.4
	22.5	—		13.2	-8.6
11:33	22.5	—	50	12.5	-7.9
	22.0	-17.3		12.5	—
	21.6	-16.9		12.5	—
5+00	22.7	-18.0		12.5	—
5+10	22.7	—	11:38 7+00	12.5 11.7	-7.1

STA- #3- WEST 1-9-48

DIST	SOUND		DIST	SOUND
7+10	9.9	-4.8		
(4.6)	4.7	-0.1		
	4.0	+0.6		
	4.1	+0.5		
50	4.2	+0.4		
	4.0	+0.6		
	4.0	—		
11:40	4.0	—		
	4.0	—		
8+00	4.0	—		

STA- #4- WEST 1-9-48 (79)

0+00 = STA - #4 - WEST ON 300' OFFSET LINE : SECT. AT 90° TO LINE.

SOUND DIST	SOUTH SOUND		DIST	SOUND	
0+00	2.5	+1.0	1+70	17.1	-13.6
+10	2.5	—		17.1	—
12:39	2.5	—	(3.5)	17.2	-13.7
(3.5)	2.5	—	2+00	17.2	—
	2.5	—		17.0	-13.5
50	2.5	—		17.4	-13.9
	7.0	-3.5		17.4	—
	12.1	-8.6		17.1	-13.6
	12.5	-14.0	50	17.0	-13.5
	12.5	—		17.0	—
1+00	12.2	-13.7		17.0	—
	12.3	-13.8		17.0	—
	12.0	-13.5		17.3	-13.8
	12.0	—	3+00	20.5	-17.0
	12.0	—		20.5	—
50	12.0	—	12:45	20.5	—
12:42					
1+60	12.0	—	3+30	20.0	-16.5

STA - #4 - WEST 1-9-18

DIST	SOUND		DIST	SOUND	
3+40	19.0	-15.5	5+20	19.0	-15.5
50	18.5	-15.0		17.7	-14.2
(3.5)	18.1	-14.6	(3.5)	12.0	-8.5
	18.0	-14.5	50	12.0	—
	18.0	—		12.0	—
	18.0	—		12.0	—
4+00	18.0	—	(3.5)	12.1	-8.6
	18.3	-14.8	(3.4)	12.0	-8.6
	18.4	-14.9	6+00	12.0	—
	18.4	—	12:50	12.0	—
	18.4	—		12.0	—
50	18.4	—		11.8	-8.4
	18.2	-14.7		11.8	—
	18.0	-14.5	50	12.1	-8.7
	17.8	-14.3		12.1	—
12:18	17.8	—		12.1	—
5+00	18.0	-14.5		12.0	-8.6
5+10	18.5	-15.0	+90	12.0	-8.6
			7+00	12.0	—

STA - #4 - WEST 1-9-18 (5°)

DIST	SOUND		DIST	SOUND	
7+10	12.0	-8.6	8+80	4.1	-0.7
	11.7	-8.3	9+00	4.0	-0.6
(3.4)	12.1	-8.7	(3.4)	~~7.0~~	
	12.1	—		~~10.2~~	
50	12.7	-9.0		~~10.0~~	
	12.6	-9.2		~~11.0~~	
	13.0	-9.6	50	~~11.7~~	
	13.0	—		~~12.2~~	
	12.8	-9.4			
8+00	12.6	-9.2			
	12.0	-8.6			
	7.1	-3.7			
12:53	3.7	-0.3			
	3.7	—			
50	3.8	-0.4			
	4.0	-0.6			
	4.0	—			
8+80	4.1	-0.7			

STA- #5-WEST 1-9-78

0+00 = STA- #5-WEST ON 300' OFFSET LINE: SECT. AT 90° TO B/L

SOUND DIST	SOUTH SOUND		DIST	SOUND	
PX					
0+00	1.8	+1.5	1+70	9.1	-5.9
+10	1.8	—	13:08	8.2	-5.0
13:00	1.8	—	(3.2)	15.1	-12.2
(3.3)	1.8	—	2+00	15.4	—
	1.8	—		16.0	-12.8
50	1.8	—		14.0	-10.8
	1.8	—		13.5	-10.3
	1.8	—		14.4	-11.2
	1.9	+1.4	(3.2) 50	13.0	-9.8
	2.0	+1.3	13:10	11.0	-7.8
1+00	2.0	—	(3.1)	7.2	-4.1
	2.4	+0.9		6.1	-3.0
13:03	2.1	+1.2		7.5	-4.4
	2.1	—	3+00	15.0	-11.9
(3.3)	2.1	—		19.8	-16.7
(3.2) 50	5.2	-2.0		19.4	-16.3
1+60	8.1	-4.9	3+30	19.0	-15.9

STA- #5-WEST 1-9-78

DIST	SOUND		DIST	SOUND
3+10	18.5	-15.4	PX 5+20	18.0	-14.9
50	18.5	—		17.0	-13.9
(3.1)	18.8	-15.7	(3.1)	13.1	-10.0
13:13	18.8	—	50	9.5	-1.4
	18.8	—		3.5	-0.4
	19.0	-15.9		3.3	-0.2
4+00	19.0	—		2.3	+0.8
	19.0	—	13:18	2.7	+0.4
	19.0	—	6+00	3.4	-0.3
	18.6	-15.5		4.4	-1.3
	18.5	-15.4		8.0	-4.9
50	18.4	-15.3		11.1	-8.0
13:15	18.4	—		11.3	-8.2
	18.2	-15.1	50	11.3	—
	18.0	-14.9		11.3	—
	18.0	—	(3.1)	11.5	-8.4
	17.7	-14.6	(3.0)	11.5	-8.5
5+10	18.2	-15.1	6+20	11.7	-8.7

(51)

STA- #5-WEST 1-9-48

DIST	SOUND		DIST	SOUND	
7+00	12.0	-9.0	8+80	12.0	-9.0
13:20	12.0	—	13:23	12.1	-9.1
(3.0)	12.0	—	9+00	12.1	—
	12.5	-8.5	(3.0)	12.0	-9.0
	11.5	—		10.5	-7.5
50	11.8	-8.8		7.0	-4.0
	11.8	—		3.5	-0.5
	12.0	-9.0	50	3.5	—
	11.8	-8.8		3.5	—
	11.8	—		3.5	—
8+00	11.8	—		3.5	—
	11.6	-8.6		3.5	—
	11.8	-8.8	10+00	3.5	—
	12.0	-9.0	13:25		
	12.0	—			
50	11.8	-8.8			
	12.0	-9.0			
8+70	12.0	—			

STA- 41+93 1-9-48 (52)

CHANNEL SECTION "C" & BORROW AREA N CHAN.

0+00 = STA-41+93 ON 400' OFFSET LINE, SECT. AT 90° TO LINE.

SOUND DIST	SOUTH SOUND		DIST	SOUND	
0+00			1+70	16.6	-14.0
+10				16.7	-14.1
13:41			(2.6)	16.7	—
(2.6)			2+00	16.8	-14.2
				16.5	-13.9
50	1.4	+1.2		16.8	-14.2
	1.5	+1.1		16.8	—
	1.5	—		16.9	-14.3
	1.7	+0.9	50	17.0	-14.4
	1.7	—	13:45	19.5	-16.9
1+00	2.0	+0.6		19.7	-17.1
	9.0	-6.4		19.2	-16.6
	16.8	-14.2		19.0	-16.4
	18.7	-16.1	3+00	19.0	—
	18.2	-15.6		19.0	—
13:47					
50	17.2	-14.6		18.4	-15.8
1+60	16.8	-14.2	3+30	18.0	-15.4

STA - 41+93 — 1-9-48

DIST	SOUND		DIST	SOUND	
3+90	18.8	-16.2	5+20	19.0	-16.4
50	18.5	-15.9		18.5	-15.9
(2.6)	18.3	-15.7		18.0	-15.4
	18.0	-15.4	50	18.0	—
	16.4	-13.8	(2.6)	18.0	—
	16.5	-13.9	(2.5)	17.8	-15.3
4+00	16.0	-13.4	13:50	17.7	-15.2
	16.8	-14.2		17.5	-15.0
	19.2	-16.6	6+00	17.6	-15.1
	20.0	-17.4		17.5	-15.0
	20.2	-17.6		17.1	-14.6
50	20.0	-17.4		15.2	-12.7
	19.0	-16.4		8.0	-5.5
13:48	17.0	-14.4	50	4.5	-2.0
	17.0	—		4.5	—
	17.3	-14.7		4.5	—
5+00	17.5	-14.9	13:53	4.4	-1.9
5+10	17.8	-15.2	6+90	4.4	—
			7+00	4.4	—

STA - 41+00 — 1-9-48 — (53)

0+00 = STA - 41+00 ON 400' OFFSET LINE. SECT. AT 90° TO LINE.

SOUND SOUTH DIST	SOUND		DIST	SOUND	
0+00	6.0	-3.7	1+70	7.1	-4.8
+10	6.0	—		13.0	-10.7
14:04	6.0	—	(2.3)	20.0	-17.7
(2.3)	6.0	—	2+00	19.2	-16.9
	5.8	-3.5		18.1	-15.8
50	6.3	-4.0		18.0	-15.7
	5.8	-3.5		18.0	—
	5.6	-3.3		17.8	-15.5
	5.6	—	50	18.1	-15.8
	5.7	-3.4		17.4	-15.1
1+00	6.0	-3.7	14:10	17.4	—
	6.1	-4.1		17.4	—
	6.4	—		17.4	—
14:07	6.5	-4.2	3+00	17.1	-14.8
	6.5	—		17.1	—
50	6.5	—		17.1	—
1+60	6.4	-4.1	3+30	17.6	-15.3

STA - 41+00 — 1-9-48

DIST	SOUND		DIST	SOUND	
3+40	17.2	-14.9	5+20	18.0	-15.8
50	17.4	-15.1		18.1	-15.9
	17.4	—	(2.2)	18.0	-15.8
(2.3)	17.4	—	50	18.0	—
(2.2)	17.0	-14.8		17.8	-15.6
	17.5	-15.3		17.5	-15.3
14:13					
4+00	18.2	-16.0		17.5	—
	18.0	-15.8		17.4	-15.2
	20.2	-18.0	14:18 6+00	17.1	-14.9
	20.5	-18.3		17.8	-15.6
	20.5	—		18.1	-15.9
50	21.0	-18.8		17.3	-15.1
	21.0	—		15.0	-12.8
	21.0	—	50	8.7	-6.5
14:15					
	20.4	-18.2	60	3.3	-1.1
			70	3.1	-0.9
	18.0	-15.8	80	3.0	-0.8
			14:20	3.0	—
5+00	18.0	—	7+00	2.7	-0.5
5+10	18.0	—		2.7	—

STA - 40+00 — 1-9-48 — (54)

0+00 = STA - 40+00 ON 400' OFFSET LINE: SECTION AT 90° TO LINE.

DIST	SOUND SOUTH		DIST	SOUND	
0+00	3.1	-1.1	1+70	3.1	-1.1
+10	3.1	—	(2.0)	3.5	-1.5
14:31	3.2	-1.2	14:35	3.1	-1.1
(2.0)	3.3	-1.3	2+00	3.1	—
	3.3	—		13.0	-11.0
50	3.5	-1.5		17.2	-15.2
	3.4	-1.4		19.0	-17.0
	3.4	—		18.5	-16.5
	3.4	—	50	18.0	-16.0
14:37					
	3.4	—		17.7	-15.7
1+00	3.5	-1.5		17.4	-15.4
	3.5	—		17.4	-15.4
	3.5	—		17.1	-15.1
	3.0	-1.0	3+00	17.0	-15.0
	3.2	-1.2		17.0	—
50	3.3	-1.3		17.0	—
1+60	3.4	-1.4	3+30	17.0	—

STA - 10+00 — 1-9-98

DIST	SOUND		DIST	SOUND	
3+40	16.7	-14.7	5+20	10.3	-8.4
50	16.7	—	(1.9)	10.4	-8.5
	16.5	-14.5		10.1	-8.2
	17.0	-15.0	50	10.0	-8.1
	16.0	-14.0		10.0	—
	14.1	-12.1		10.0	—
4+00	9.2	-7.2		10.0	—
	6.0	-4.0		10.0	—
	10.6	-8.6	6+00	10.0	—
	10.8	-8.8		9.7	-7.8
(2.0)	10.8	—		1.4	+0.5
(1.9) 50	10.6	-8.7		1.4	—
	10.5	-8.6	14:43	1.4	—
14:40	10.5	—	50	1.4	—
	10.5	—			
	10.5	—			
5+00	10.2	-8.3			
5+10	10.1	-8.2			

ORIGINAL — BARRAGAN SHERRY STANLEY — 1-14-98 CLEAR CALM WARM — (55)

SOUNDINGS OF LA PATERA ISLAND

DISPOSAL AREA - PROJ. # 3-1

STA-128+00 PX

0+00 = STA-128+00 ON PATERA B/L: SECT AT 90° TO B/L

SOUND EAST

DIST	SOUND		DIST	SOUND	
5+00	3.8	+1.0	6+40	3.9	+0.9
+10	3.8	—	50	3.9	—
08:36	3.8	—	(1.8)	3.9	—
(1.8)	3.9	+0.9		3.9	—
	3.9	—		3.8	+1.0
50	4.0	+0.8		3.8	—
	4.0	—	7+00	3.8	—
	4.0	—		3.9	+0.9
	4.0	—		3.8	+1.0
	4.0	—		3.7	+1.1
6+00	4.0	—		3.7	—
	4.0	—	50	3.7	—
	4.0	—		3.6	+1.2
6+30	4.0	—	7+70	3.6	—

STA - 128+00 1-14-98

DIST	SOUND		DIST	SOUND	
7+80	3.6	+1.2	9+60	4.5	+0.4
(4.8)	3.6	—	(4.9)	3.0	+1.9
8+00	3.6	—		4.4	+0.5
PX	3.6	—		7.4	-2.5
	3.9	+0.9	10+00	8.0	-3.1
	4.0	+0.8		8.5	-3.6
	4.0	—		9.0	-4.1
50	4.0	—		9.5	-4.6
	4.0	—		9.8	-4.9
	3.8	+1.0	50	10.0	-5.1
(4.8)	3.4	+1.4		10.3	-5.4
(4.9)	3.4	+1.5		10.4	-5.5
9+00	3.4	—		10.4	—
08:40	3.7	+1.2		10.1	-5.2
	5.0	-0.1	11+00	10.0	-5.1
	5.5	-0.6		9.5	-4.6
	6.5	-1.6		9.0	-4.1
9+50	6.7	-1.8	11+50	8.2 7.8 7.3	-3.3 -2.9 -2.4

STA - 128+00 1-14-98 (56)

DIST	SOUND		DIST	SOUND
11+60	5.0	-0.1	PX	
(4.9)	4.5	+0.4		
	4.5	—		
	4.5	—		
12+00	4.0	+0.9		

STA-127+00 1-14-98

0+00 = STA-127+00 ON PATERA B/L. SECT. AT 90° TO B/L.

SOUND EAST DIST	SOUND		DIST	SOUND	
3+70 PX	4.0	+1.1	4+40	4.0	+1.1
+80	3.9	+1.2	50	4.0	—
08:57	3.9	—		4.0	—
3+00	3.9	—	(5.1)	4.0	—
(5.1)	3.9	—		4.0	—
	3.7	+1.4		4.0	—
	3.7	—	5+00	4.0	—
	3.7	—		4.0	—
50	3.7	—		4.0	—
	3.9	+1.2		4.0	—
	3.9	—		4.0	—
	3.9	—	50	4.0	—
	3.9	—		4.0	—
4+00	3.9	—		4.1	+1.0
	3.9	—		4.1	—
	3.9	—		4.1	—
4+30	4.0	+1.1	6+00	4.1	—

STA-127+00 1-14-98

DIST	SOUND		DIST	SOUND	
6+10	4.1	+1.0	7+90 PX	3.8	+1.3
	4.2	+0.9	8+00	3.6	+1.5
(5.1)	4.2	—		3.5	+1.6
	4.2	—	(5.1)	3.5	—
50	4.2	—		3.5	—
	4.2	—		3.4	+1.7
	4.2	—	50	3.4	—
	4.1	+1.0		3.3	+1.8
09:00	4.0	+1.1		3.2	+1.9
7+00	3.9	+1.2		3.2	—
	3.9	—		3.2	—
	3.9	—	9+00	3.2	—
	3.9	—		3.2	—
	3.8	+1.3		3.7	+1.4
50	3.8	—		1.0	−1.9
	3.9	+1.2		8.3	−3.2
	4.0	+1.1	50	9.0	−3.9
7+80	4.0	—	9+60	9.7	−4.6

STA-127+00 1-14-48

DIST	SOUND		DIST	SOUND	
9+70	9.8	-4.7	11+50	3.0	+2.1
PX	10.0	-4.9		3.4	+1.7
(5.1)	10.0	—	(5.1)	4.0	+1.1
10+00	10.0	—		4.4	+0.7
	10.0	—		6.0	-0.9
	10.0	—	12+00	6.0	—
	10.0	—		4.0	+1.1
	9.7	-4.6		3.0	+2.1
50	9.1	-4.0		2.7	+2.4
	8.8	-3.7		2.7	—
	8.7	-3.6	50	2.6	+2.5
	8.0	-2.9	09:05		
	7.1	-2.0			
11+00	4.7	+0.4			
	3.2	+1.9			
	3.1	+2.0			
	3.0	+2.1			
11+40	3.0	—			

STA-126+00 1-14-48 (58)

0+00 = STA-126+00 ON PATERA B/L: SECT. AT 90° TO B/L.
SOUND EAST

DIST	SOUND		DIST	SOUND	
		PX			
1+00	3.5	+1.7	2+70	4.2	+1.0
+10	3.5	—		4.1	+1.1
09:11	3.6	+1.6	(5.2)	4.0	+1.2
(5.2)	3.7	+1.5	3+00	4.1	+1.1
	3.7	—		4.0	+1.2
50	3.8	+1.4		4.0	—
	3.9	+1.3		3.9	+1.3
	3.9	—		3.9	—
	4.0	+1.2	50	4.0	+1.2
	4.2	+1.0		4.0	—
2+00	4.4	+0.8		4.0	—
	4.3	+0.9		4.0	—
	4.1	+1.1		4.1	+1.1
	4.0	+1.2	4+00	4.1	—
	4.0	—		4.2	+1.0
50	4.1	+1.1		4.2	—
2+60	4.2	+1.0	4+30	4.2	—

STA -126+00 — 1-14-48

DIST	SOUND		DIST	SOUND	
7+40	4.2	+1.0	6+20	3.8	+1.5
PX 50	4.2	—		3.8	—
~	4.1	+1.1	(5.3)	3.8	—
(5.2)	4.1	—	50	3.8	—
(5.3)	4.1	+1.2		3.8	—
09:18	4.1	—		3.7	+1.6
5+00	4.2	+1.1		3.6	+1.7
	4.1	+1.2		3.5	+1.8
	4.1	—	7+00	3.5	—
	4.1	—		3.5	—
	4.1	—		3.5	—
50	4.3	+1.0		3.5	—
	4.2	+1.1		3.4	+1.9
	4.0	+1.3	50	3.4	—
	4.0	—	09:20	3.4	—
	4.0	—		3.4	—
6+00	3.9	+1.4		3.3	+2.0
6+10	3.9	—	7+90	3.2	+2.1

STA -126+00 — 1-14-48 — (59)

DIST	SOUND		DIST	SOUND	
8+00	3.1	PX +2.2	9+80	9.7	-4.4
	3.0	+2.3	(5.3)	9.5	-4.2
(5.3)	3.0	—	10+00	9.0	-3.7
	3.0	—		9.0	—
	3.0	—		8.8	-3.5
50	3.0	—		7.4	-2.1
	3.0	—		4.7	+0.6
	3.0	—	50	3.5	+1.8
	5.8	-0.5	—	3.3	+2.0
	8.0	-2.7		3.1	+2.2
9+00	9.1	-3.8		3.0	+2.3
	9.4	-4.1		3.0	—
	10.0	-4.7	11+00	3.0	—
	10.1	-4.8	09:23		
	10.5	-5.2			
50	10.5	—			
	10.2	-4.9			
9+70	10.0	-4.7			

STA-125+00 1-14-48

0+00 = STA-125+00 ON PATERA B/L. SECT. AT 90° TO B/L.

SOUND EAST

DIST	SOUND		DIST	SOUND	
~~4+00~~	3.7	+1.7	2+70	4.5	+0.9
+10	3.7	—		4.1	+1.3
09:30	3.8	+1.6	(5.4)	4.0	+1.4
(5.4)	4.0	+1.4	3+00	4.2	+1.2
	4.0	—		4.0	+1.4
50	4.1	+1.3		3.8	+1.6
	4.0	+1.4		3.7	+1.7
	4.0	—		3.7	—
	4.1	+1.3	50	4.0	+1.4
	4.4	+1.0		4.0	—
2+00	4.4	—		4.0	—
	4.4	—		4.0	—
	4.4	—		4.0	—
	4.5	+0.9	4+00	4.0	—
	4.5	—	09:33	4.2	+1.2
50	4.5	—		4.3	+1.1
2+60	4.6	+0.8	4+30	4.3	—

STA-125+00 1-14-48

PX

DIST	SOUND		DIST	SOUND	
4+40	4.3	+1.1	6+20	4.0	+1.4
50	4.3	—	09:35	4.0	—
	4.3	—	(5.4)	4.0	—
(5.4)	4.3	—	50	4.0	—
	4.4	+1.0		4.0	—
	4.5	+0.9		4.0	—
5+00	4.5	—		4.0	—
	4.5	—		4.0	—
	4.5	—	7+00	4.0	—
	4.5	—		4.0	—
	4.5	—		3.9	+1.5
50	4.4	+1.0		3.9	—
	4.3	+1.1		3.9	—
	4.2	+1.2	50	3.9	—
	4.2	—		3.9	—
	4.1	+1.3		3.9	—
6+00	4.1	—		3.9	—
6+10	4.1	—	7+90	3.9	—

STA - 125+00 1-14-48

DIST	SOUND		DIST	SOUND	
8+00	4.5	+0.9	9+80	3.5	-4.1
	3.5	+1.9	(5.4)	8.0	-2.6
(5.4)	3.9	+2.0	10+00	4.2	+1.2
	4.1	+1.3		3.8	+1.6
	7.5	-2.1		3.5	+1.9
50	8.3	-2.9		3.4	+2.0
	8.5	-3.1		3.1	+2.3
	9.0	-3.6	10+50	3.0	+2.4
	10.0	-4.6	09:39		
	10.4	-5.0			
9+00	10.4	—			
	10.3	-4.9			
	10.2	-4.8			
	10.1	-4.7			
	10.0	-4.6			
50	10.0	—			
09:38	9.8	-4.4			
9+70	9.6	-4.2			

STA - 124+00 1-14-48 (61)

0+80 = STA 124+00 ON PATERA B/L. SECT. AT 90° TO B/L.

SOUND	FAST			SOUND	
DIST	SOUND		DIST	SOUND	
1+00	3.5	+2.0	2+70	4.6	+0.9
+10	4.0	+1.5		4.5	+1.0
09:45	4.0	—	(5.5)	4.1	+1.4
(5.5)	4.1	+1.4	3+00	4.0	+1.5
	4.1	—		4.0	—
50	4.0	+1.5		4.0	—
	4.1	+1.4		4.0	—
	4.1	—		4.1	+1.4
	4.2	+1.3	50	4.4	+1.1
	4.4	+1.1		4.6	+0.9
2+00	4.5	+1.0		4.6	—
	4.4	+1.1		4.6	—
	4.5	+1.0		4.6	—
	4.8	+0.7	4+00	4.6	—
	4.7	+0.8		4.5	+1.0
50	4.7	—		4.5	—
2+60	4.7	—	4+30	4.4	+1.1

	STA-	124+00			1-14-48
DIST	SOUND		DIST	SOUND	
4+40	4.4	+1.1	6+20	4.0	+1.5
50	4.4	—		4.0	—
(5.5)	4.4	—	(5.5)	3.9	+1.6
	4.1	+1.4	50	3.9	—
09:18	4.0	+1.5		3.8	+1.7
	4.0	—		3.7	+1.8
5+00	4.0	—		3.6	+1.9
	4.1	+1.4		3.5	+2.0
	4.1	—	7+00	3.4	+2.1
	4.1	—	09:50	3.4	—
	4.1	—		3.3	+2.2
50	4.1	—		3.3	—
	4.0	+1.5		3.3	—
	4.0	—	50	3.3	—
	4.0	—		3.1	+2.4
	4.0	—		3.4	+2.1
6+00	4.0	—		6.0	−0.5
6+10	4.0	—	7+90	2.7	−2.2

	STA-	124+00			1-14-48
DIST	SOUND		DIST	SOUND	
8+00	8.7	−3.2	9+80	3.7	+1.8
	9.0	−3.5	(5.5)	3.5	+2.0
(5.5)	9.1	−3.6	10+00	3.2	+2.3
	9.3	−3.8	10+10	3.2	—
	9.5	−4.0	09:53		
50	9.6	−4.1			
	10.0	−4.5			
	10.0	—			
	10.0	—			
	9.8	−4.3			
9+00	9.6	−4.1			
	9.7	−4.2			
	9.7	—			
	9.7	—			
	9.7	—			
50	7.4	−1.9			
	6.5	−1.0			
9+70	4.0	+1.5			

STA- 123+00 1-14-48

0+00 = STA-123+00 ON PATERA B/L: SECT AT 90° TO B/L.

SOUND EAST

DIST	SOUND		DIST	SOUND	
1+00 PX	3.7	+1.9	2+70	4.9	+0.7
+10	4.0	+1.6		5.0	+0.6
10:00	4.1	+1.5	(5.6)	4.8	+0.8
(5.6)	4.3	+1.3	3+00	4.8	—
	4.2	+1.4		4.4	+1.2
50	4.2	—		4.4	—
	4.3	+1.3		4.4	—
	4.4	+1.2		4.2	+1.4
	4.5	+1.1	50	4.1	+1.5
	~~4.7~~ 4.7	+0.9	10:03	4.0	+1.6
2+00	4.7	—		4.0	—
	4.8	+0.8		4.0	—
	4.8	—		4.0	—
	4.6	+1.0	4+00	3.9	+1.7
	4.7	+0.9		3.9	—
50	5.8	−0.2		3.9	—
2+60	5.5	+0.1	4+30	3.9	—

STA - 123+00 (63)

DIST	SOUND		DIST	SOUND	
4+40	3.9	+1.7	6+20 PX	3.7	+1.9
50	3.9	—		3.6	+2.0
	4.0	+1.6	(5.6)	3.5	+2.1
(5.6)	4.0	—	50	3.5	—
	4.1	+1.5		3.4	+2.2
	4.1	—		3.4	—
5+00	4.1	—		3.4	—
	4.0	+1.6		3.4	—
	4.0	—	7+00	3.4	—
	4.0	—		3.3	+2.3
	3.9	+1.7		3.9	+1.7
50	3.8	+1.8		6.0	−0.4
	3.9	+1.7		8.6	−3.0
	3.8	+1.8	50	8.9	−3.3
	3.8	—		9.1	−3.5
10:05	3.8	—		9.4	−3.8
6+00	3.8	—		9.4	—
6+10	3.8	—	7+90	9.2	−3.6

STA- 12 3+00 — 1-19-48

DIST	SOUND		DIST	SOUND	
8+00	9.0	-3.4	9+80	4.1	+1.5
(3.6)	9.0	—	(5.6)	4.1	—
	9.0	—	10+00	3.9	+1.7
	9.0	—		3.7	+1.9
	9.1	-3.5		3.6	+2.0
50	9.3	-3.7		3.7	+1.9
	9.4	-3.8		3.6	+2.0
	9.4	—	50	3.5	+2.1
	9.4	—	10:10		
10:08	9.3	-3.7			
9+00	9.3	—			
	8.5	-2.9			
	8.4	-2.8			
	7.0	-1.4			
	6.8	-1.2			
50	5.8	-0.2			
	4.9	+0.7			
9+70	4.4	+1.2			

FINAL

BARRAGAN
SHERRY
STANLEY

1-19-48
CALM
CLEAR
WARM

(69)

SOUNDINGS OF APPROACH CHANNEL

SECTION "B" - PROJ. # 3-1

STA- 1+00 —

0+00 = STA-1+00 ON 100' OFFSET LINE: SECTION AT 90° TO LINE

SOUND DIST	EAST SOUND		DIST	SOUND	
0+00	2.1	+3.6	1+50	15.3	-9.6
+10	2.1	—		15.3	—
10:25	2.1	—		15.1	-9.4
(5.7)	2.2	+3.5	(5.7)	15.2	-9.5
	3.5	+2.2		15.5	-9.8
50	7.1	-1.4	2+00	16.0	-10.3
	9.0	-3.3		14.4	-8.7
	10.9	-5.2		13.7	-8.0
	11.1	-5.4		13.8	-8.1
	14.0	-8.3		14.0	-8.3
1+00	15.3	-9.6	50	14.5	-8.8
	15.4	-9.7	10:28	14.0	-8.3
	15.3	-9.6		13.8	-8.1
	15.3	—		13.5	-7.8
1+40	15.3	—	2+90	13.2	-7.5

STA - 4+00 1-19-48

DIST	SOUND		DIST	SOUND
3+00	13.1	-7.4		
	13.0	-7.3		
(5.7)	12.8	-7.1		
	7.1	-1.4		
	9.4	+1.3		
50	9.4	—		
	9.5	+1.2		
	9.5	—		
	9.9	+0.8		
	10.1	+0.6		
4+00	9.0	+1.7		
10:30				

STA - 3+00 1-19-48 (65)

0+00 = STA-3+00 ON 100' OFFSET LINE: SECT AT 30° T. B/L.

SOUND EAST

DIST	SOUND		DIST	SOUND	
0+00	2.0	+3.7	1+70	15.5	-9.8
+10	2.0	—		15.3	-9.6
10:36	2.0	—	(5.7)	15.2	-9.5
(5.7)	2.0	—	2+00	15.3	-9.6
	2.0	—		15.6	-9.9
50	2.1	+3.6		15.0	-9.3
	2.2	+3.5		14.8	-9.1
	2.2	—		15.0	-9.3
	3.5	+2.2	50	15.0	—
	5.7	0.0		15.1	-9.4
1+00	12.8	-7.1		14.8	-9.1
	15.0	-9.3		14.8	—
	15.1	-9.4		14.8	—
	15.3	-9.6	3+00	14.4	-8.7
	15.3	—		14.0	-8.3
50	15.3	—		13.8	-8.1
1+60	15.4	-9.7	3+30	13.5	-7.8

STA- 3+00 1-14-98

DIST	SOUND		DIST	SOUND
3+40	8.0	-2.3		
50	4.2	+1.5		
(5.7)	3.9	+1.8		
10:42	3.8	+1.9		
	3.8	—		
	3.7	+2.0		
4+00	3.6	+2.1		

STA- 2+00 1-14-98 (66)

0+00 = STA-2+00 ON 100' OFFSET LINE: JECT. AT 90° TO B/L.

SOUND EAST

DIST	SOUND		DIST	SOUND	
0+00	1.9	+3.8	1+70	14.5	-8.8
+10	1.9	—		14.7	-9.0
10:48	1.9	—	(5.7)	14.7	—
(5.7)	1.9	—	2+00	14.7	—
	2.0	+3.7		13.7	-8.0
50	1.9	+3.8		14.7	-9.0
	2.0	+3.7		15.2	-9.5
	2.1	+3.6		15.2	—
	4.7	+1.0	50	15.0	-9.3
	10.8	-5.1		14.8	-9.1
1+00	13.3	-7.6		14.7	-9.0
	13.5	-7.8		14.6	-8.9
	13.5	—		14.6	—
	13.9	-8.2	3+00	14.5	-8.8
10:50	14.1	-8.4		14.4	-8.7
50	14.4	-8.7		14.4	—
1+60	14.4	—	3+30	14.8	-9.1

STA - 2+00 — 1-14-98

DIST	SOUND		DIST	SOUND
3+90	7.0	-1.3		
50	5.0	+0.7		
(5.7)	5.0	—		
	4.0	+1.7		
	3.6	+2.1		
	3.5	+2.2		
4+00	3.5	—		
10:51				

STA - 1+00 — 1-14-98 — (67)

0+00 = STA - 1+00 ON 100' OFFSET LINE: SECT. AT 90° TO B/L.

SOUND EAST DIST	SOUND		DIST	SOUND	
0+00	3.4	+2.3	1+70	14.6	-8.9
+10	6.0	-0.3		14.6	—
10:59	6.0	—	(5.7)	14.6	—
(5.7)	6.5	-0.8	2+00	14.9	-8.7
	6.5	—	11:03	15.3	-9.6
50	6.8	-1.1		15.8	-10.1
	6.5	-0.8		15.6	-9.9
	6.0	-0.3		16.0	-10.3
	6.1	-0.4	50	15.9	-9.7
	12.3	-6.6		15.0	-9.3
1+00	13.3	-7.6		15.0	—
	13.2	-7.5		14.5	-8.8
	13.7	-8.0		14.5	—
	13.7	—	3+00	14.5	—
	13.8	-8.1		14.3	-8.6
50	14.1	-8.4		14.0	-8.3
1+60	14.4	-8.7	3+30	10.1	-4.4

STA- 1+00 — 1-14-98

DIST	SOUND		DIST	SOUND
3+10	7.4	-1.7		
50	7.1	-1.4		
(5.7)	7.2	-1.5		
	8.0	-2.3		
	7.0	-1.3		
	9.8	+0.9		
9+00	9.2	+1.5		
11:06				

STA- 0+00 — 1-14-98 — (68)

0+00 = STA- 0+00 ON 100' OFFSET LINE; SECT. AT 90° TO B/L.

SOUND EAST

DIST	SOUND		DIST	SOUND	
0+00	9.5	+1.2	1+70	13.5	-7.8
+10	9.3	+1.4		14.0	-8.3
11:09	3.7	+2.0	(5.7)	14.3	-8.6
(5.7)	3.6	+2.1	2+00	14.7	-9.0
	3.6	—		13.5	-7.8
50	3.8	+1.9		12.5	-6.8
	3.8	—		13.1	-7.4
	3.8	—		15.5	-9.8
	9.1	+1.6	50	15.9	-9.7
	7.9	-1.7		16.0	-10.3
1+00	12.0	-6.3		16.9	-10.7
	13.0	-7.3		16.3	-10.6
	13.0	—		15.3	-9.6
11:12	13.3	-7.6	3+00	14.2	-8.5
	13.3	—		9.5	-3.8
50	13.3	—		8.0	-2.3
1+60	13.3	—	3+30	7.8	-2.1

STA- 0+00 1-14-98

DIST	SOUND		DIST	SOUND
3+90	7.5	-1.8		
50	6.8	-1.1		
11:16	5.0	+0.7		
5.7	6.1	-0.4		
	6.8	-1,1		
	6.8	—		
4+00	7.1	-1.4		

STA- -1+00 1-14-98 (69)

0+00 = STA- -1+00 ON 100' OFFSET LINE: SECT. AT 30° T.B/L.

SOUND EAST

DIST	SOUND		DIST	SOUND	
0+00	3.3	+2.3	1+70	3.8	+1.8
+10	3.3	—		4.2	+1.4
11:22	3.4	+2.2	(5.6)	6.8	-1.2
(5.6)	3.4	—	2+00	7.1	-1.5
	3.4	—		8.4	-2.8
50	3.4	—		8.1	-2.5
	3.5	+2.1		9.8	-4.2
	3.5	—		10.4	-4.8
	3.5	—	50	10.9	-5.3
	3.6	+2.0		11.4	-5.8
1+00	3.7	+1.9		11.4	—
	3.7	—		11.4	—
	3.7	—		10.9	-5.3
	3.7	—	3+00	10.2	-4.6
	3.6	+2.0		10.5	-4.9
50	3.6	—		9.5	-3.9
1+60	3.8	+1.8	3+30	8.5	-2.9

STA - -1+00 .

1-14-48

(70)

DIST	SOUND		DIST	SOUND
3+90	7.8	-2.2		
50	5.0	+0.6		
(5.60)	6.8	-1.2		
	6.1	-0.5		
	6.0	-0.4		
	6.1	-0.5		
4+00	6.1	—		

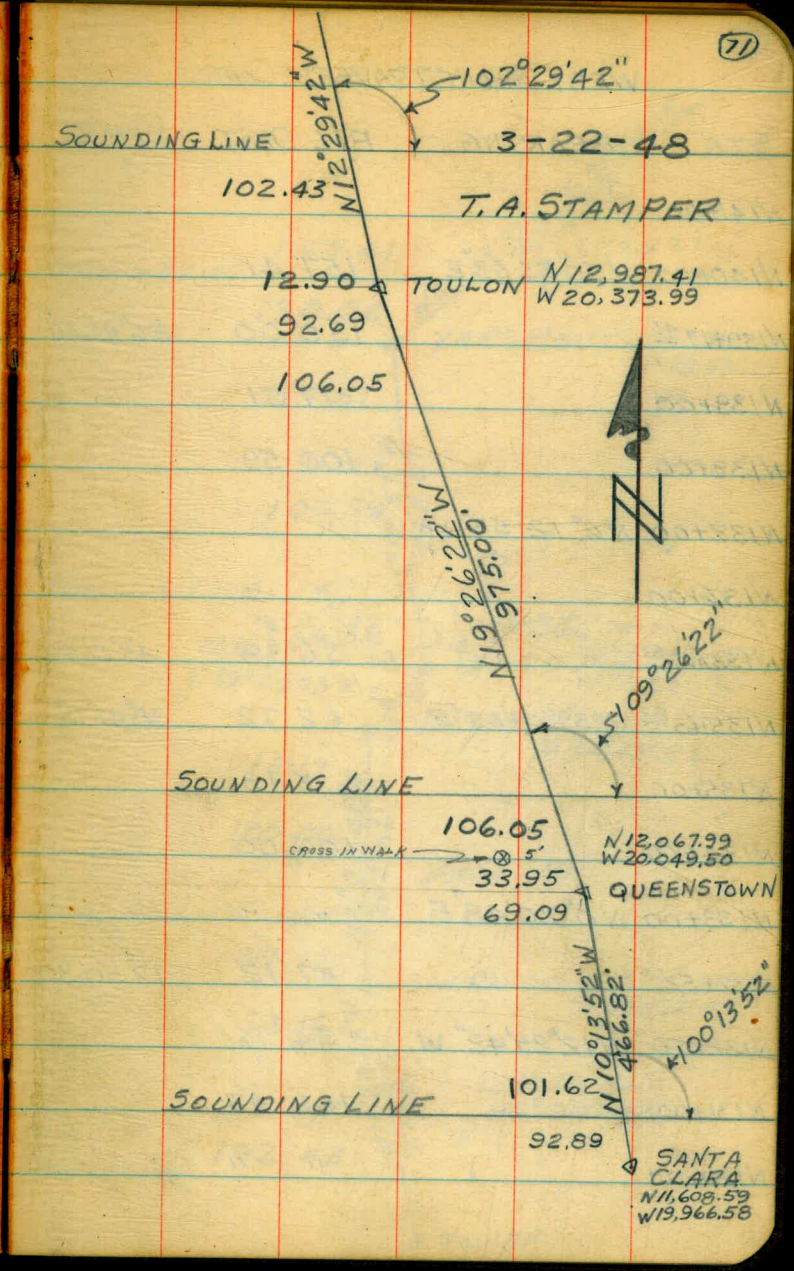
11:26

WEST SHORE BASELINE

TRAVERSE FOR PROJ. NO. 9

Indexed

STA	BEARING	B/L DIST.	DEF. L
N130+00			RT
N129+87.41		12 90	6°56'40"
		92 69	
N129+00		106 045	
N128+00		" "	
N127+00		" "	
N126+00		" "	
N125+00	N19°26'22"W	" "	
N124+00		" "	
N123+00		" "	
N122+00		" "	
N121+00		" "	
N120+67.99		33 95	LT
		69 09	9°12'30"
N120+00		101 62	
N119+00		101 62	
N118+00	N10°13'52"W		
		101 62	
N117+00		92 89	
N116+08.59			

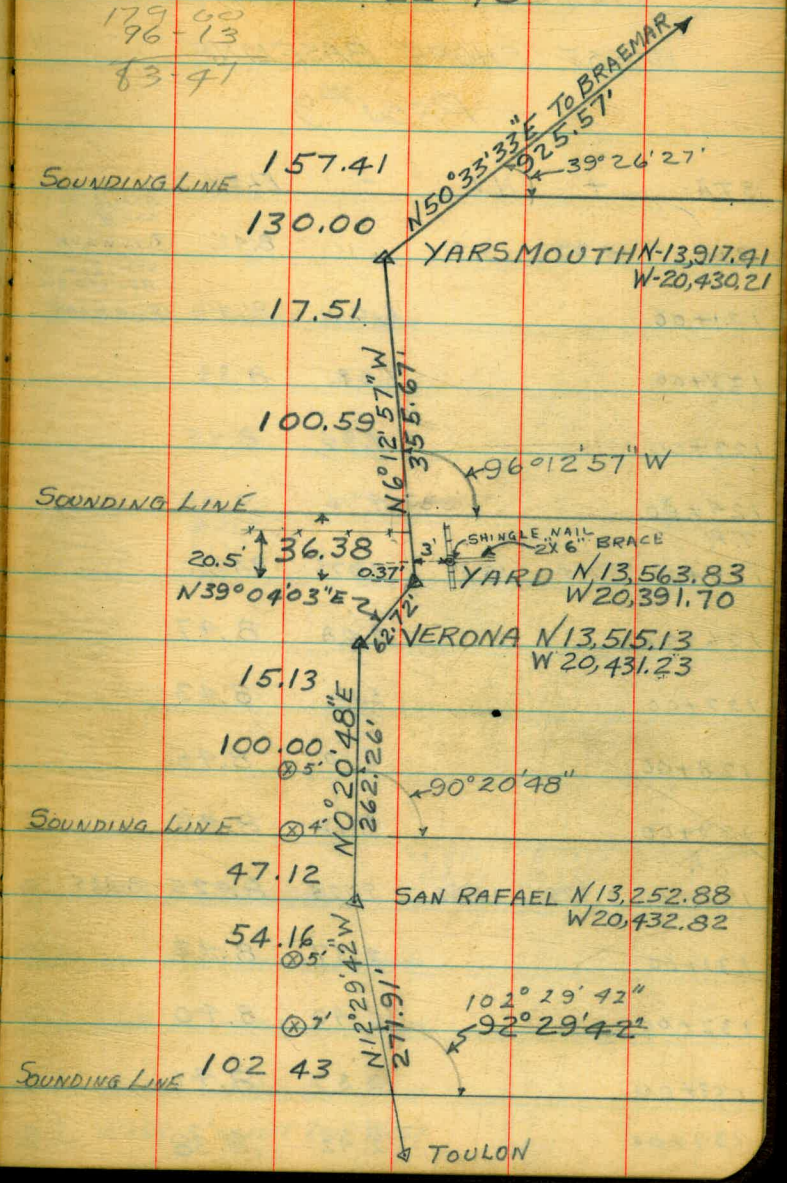


179 59 60
102-29-42
77 30 18
179 00
96-13
83-47

3-22-48

WEST SHORE TRAVERSE CONTD.

STA	BEARING	B/L	DIST.	DEF. ∠
N141+00				
N140+00	N50°33'33"E	157	41	
N139+17.41		130	00	56°46'30"
N139+00		17	51	
N138+00		100	59	
N137+00	N6°12'57"W	"	"	
N136+00		"	"	
N135+63.83		36.38		45°17'00"
N135+63.83	N39°04'03"E	62	72	38°43'15"
N135+00		15	13	
N134+00		100	00	
N133+00	N0°20'48"E	"	"	
N132+52.88		47	12	RT. 12°50'30"
N132+00	N12°29'42"W	54	16	
N131+00		102	43	
N130+00		"	"	



3-30-48

PROFILE MISSION BAY
WEST SHORE BASELINE
PROJ #9

STA	+	H.I.	−	ELEV	
B.M.	4.99	13.41		8.42	STA-126+00 OLD B/L. ⊗ IN WALK
121+00			5.00	8.41	STA-121+00 REVISED B/L ⊗ IN WALK
122+00			5.08	8.33	
123+00			4.96	8.45	
124+00			4.96	8.45	
T.P. 125+00	5.115	13.55	4.97 5	8.435	
126+00			5.08	8.47	
127+00			5.12	8.43	
128+00			5.10	8.45	
129+00			5.12	8.43	
T.P. 130+00	2.375	10.80	5.125	8.425	8.425
131+00			2.37	8.43	
132+00			2.40	8.40	
133+00			2.39	8.41	
134+00			2.42	8.38	

8.42
4.99
13.41

⊗ IN WALK 5' OFFSET DUE WEST

13.41 — 8.435
4.97 5 — 5.115
8.43 5 — 13.550

13.550 — 8.425
5.125 — 2.375
8.425 — 10.800

~~⊗ IN WALK 7' OFFSET DUE WEST~~

⊗ IN WALK 7' OFFSET DUE WEST

⊗ IN WALK 5' OFFSET DUE WEST

⊗ IN WALK 4' OFFSET DUE WEST

⊗ IN WALK 5' OFFSET DUE WEST

STA	+	H.I.=10.80	−	ELEV	
T.P.					
135+00	4.415	12.78	2.435	8.365	⊠ IN WALK ON B/L.
136+00			5.16	7.62	⊗ IN BRICK PATIO
137+00			4.75	8.03	⊗ IN TOP BULKHEAD 1' DUE WEST
138+00			3.92	8.86	TOP 2"x2" HUB ON B/L.
139+00			4.24	8.54	TOP 2"x2" HUB ON B/L.
T.P.	2.365	10.735	4.41	8.37	
T.P.	5.00	13.335	2.40	8.335	
T.P.	4.69	13.01	4.965	8.37	
				8.42	
T.P.			4.63	8.38	

8.37
2.365
10.735
2.40
×8.330
5.00
13.335
4.965
8.370
4.64
13.010

10.800 8.365
2.435 4.415
8.365 12780

13.01
4.63
8.38

STA- 126+00 OLD B/L

ORIGINAL 3-30-48

X-SECTIONS MISSION BAY WEST SHORELINE

PROJECT # 9

STA- 121+00

DIST	+	H.I.	−	ELEV.
B.M.	4.92	13.34		8.42
0+00			4.9	8.4
E-0+45			5.3	8.0
E 0+89			6.9	6.4

STA- 126+00 OLD B/L

PIER ON LINE

STA- 122+00

0+00 = STA-122+00 ON B/L; SECT. AT 109° 26' 22" TO B/L.

B.M.	+ 4.73	H.I. 13.14		8.41
0+00			4.8	8.3
E-0+37			4.9	8.2
E-0+67			5.4	7.7
E-0+95			7.3	5.8
E-1+25			10.0	3.1

STA- 121+00

STA- 123+00

0+00 = STA-123+00 ON B/L; SECT. AT 109° 26' 22" TO B/L.

DIST	+	H.I.	−	ELEV
B.M.	5.12	13.45		8.33
0+00			5.0	8.4
E-0+35			5.5	7.9
E-0+66			5.9	7.5
E-0+90			7.5	5.9
E-1+23			10.3	3.1

STA-122+00 REV. B/L ⊗ IN WALK

10.5 AD

STA- 124+00

0+00 = STA-124+00 ON B/L; SECT. AT 109° 26' 22" TO B/L.

DIST	+	H.I.	−	ELEV
B.M.	5.07	13.52		8.45
0+00			5.1	8.4
E-0+20			4.1	9.4
E-0+33			5.2	8.3
E-0+86			5.6	7.9
E-1+18			7.9	5.6
E-1+40			10.5	3.0

STA-123+00 REV. B/L. ⊗ IN WALK

STA- 125+00

0+00 = STA-125+00 ON B/L; SECT. AT 109° 26' 22" TO B/L.

DIST	+	H.I.	−	ELEV	
B.M.	5.02	13.47		8.45	STA-124+00 REV. B/L. ⊗ IN WALK
0+00			5.0	8.5	
E-0+14			5.2	8.3	
E 0+30			7.6	5.9	
E-0+64			9.0	4.5	
E-1+02			9.7	3.8	
E-1+35			10.4	3.1	

STA- 126+00

0+00 = STA-126+00 ON B/L; SECT. AT 109° 26' 22" TO B/L.

DIST	+	H.I.	−	ELEV	
B.M.	4.83	13.26		8.435	STA-125+00 REV. B/L. ⊗ IN WALK
0+00			4.8	8.5	
E-0+13			4.1	9.2	
E-0+19			6.1	7.2	
E-0+47			8.5	4.8	
E-0+89			10.1	3.2	

STA- 127+00

0+00 = STA-127+00 ON B/L; SECT. AT 109° 26' 22" TO B/L.

DIST	+	H.I.	−	ELEV	
B.M.	4.87	13.34		8.47	STA-126+00 REV. B/L. ⊗ IN WALK
0+00			4.9	8.4	
E-0+11			5.3	8.0	
E-0+18			7.0	6.3	
E-0+54			9.3	4.0	
E-0+77			10.1	3.2	

STA- 128+00

0+00 = STA-128+00 ON B/L; SECT. AT 109° 26' 22" TO B/L.

DIST	+	H.I.	−	ELEV	
B.M.	4.95	13.38		8.43	STA-127+00 REV. B/L. ⊗ IN WALK
0+00			4.9	8.5	
E-0+03			7.0	6.4	
E-0+26			9.0	4.4	
E-0+45			10.1	3.3	

STA- 129+00

0+00 = STA-129+00 ON B/L: SECT. AT 106°26'22" TO B/L.

DIST	+	H.I.	−	ELEV	
B.M.	5.05	13.50		8.45	STA-128+00 REV. B/L. ⊗ IN WALK
0+00			5.1	8.4	
E-0+03			6.9	6.6	
E-0+24			8.8	4.7	
E-0+39			10.1	3.4	

STA- 130+00

0+00 = STA-130+00 ON B/L: SECT. AT 109°26'22" TO B/L.

DIST	+	H.I.	−	ELEV	
B.M.	5.02	13.45		8.43	STA-129+00 REV. B/L ⊗ IN WALK
0+00			5.0	8.4	
E-0+02			7.1	6.3	
E-0+27			8.9	4.5	
E-0+46			10.0	3.4	

STA- 131+00

0+00 = STA-131+00 ON B/L: SECT. AT ~~109°26'~~ 102°29'12" TO B/L.

DIST	+	H.I.	−	ELEV	
B.M.	2.14	10.56		8.42	STA-130+00 REV. B/L. ⊗ IN WALK
0+00			5.0	5.6	
W-0+06			4.4	6.2	
W-0+07			2.1	8.5	
E-0+31			7.2	3.4	

STA- 132+00

0+00 = STA-132+00 ON B/L: SECT. AT 102°29'12" TO B/L.

DIST	+	H.I.	−	ELEV	
B.M.	2.34	10.77		8.43	OFFSET 131+00 ⊗ IN WALK
0+00			5.0	5.8	
W-0+04			4.9	5.9	
W 0+04			2.4	8.4	
E-0+45			7.4	3.4	

ORIGINAL SOUNDINGS & X-SECTIONS 4-21-48

OF PROJECT #9 - MISSION BAY WEST SHORELINE
STA-N-120+00

0+00 = PT. 100' E/STA-120+00 W/SHORE B/L: SOUND DUE EAST

DIST	SOUND		DIST	SOUND	
0+35	0.0	+2.0	1+90	10.2	-8.2
40	0.5	+1.5	2+00	10.8	-8.8
50	1.4	+0.6		11.2	-9.2
14:05	2.8	-0.8		11.6	-9.6
(2.0)	5.0	-3.0	(2.0)	11.0	-9.0
	9.1	-7.1		11.4	-9.4
	10.1	-8.1	50	11.4	—
1+00	10.1	—		11.5	-9.5
	10.0	-8.0		11.5	—
	9.5	-7.5		11.0	-9.0
	9.5	—		10.7	-8.7
	9.7	-7.7	3+00	10.0	-8.0
50	9.5	-7.5	10	9.6	-7.6
	9.6	-7.6	20	9.6	-7.6
	9.8	-7.8	30	9.5	-7.5
1+80	10.2	-8.2	40	9.5	-7.5
			3+50	8.0	-6.0
			14:09		

BARRAGAN
SHERRY
STANLEY

4-21-48

(78)

STA-120+00

0+00 = STA-120+00 W/SHORE B/L: SECT. AT 100° 17' TO B/L.

DIST	+	H.I.	—	ELEV	
B.M.	4.92	13.33		8.41	STA-121+00
0+00			5.1	8.2	
0+32			5.3	8.0	
0+77			5.6	7.7	
1+00			7.7	5.6	
1+18			10.2	3.1	
1+37			11.8	1.5	
			11.95	1.38	WATER LEVEL 14:40

(77) 4-19-48

Indexed

STA-121+00

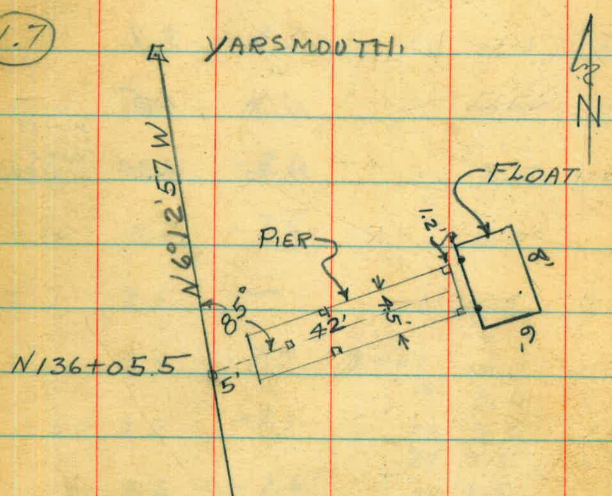
PX

0+00 = STA-121+00 W/SHORE B/L: SECT. AT 109°26" To B/L.

STA-122+00 W/SHORE B/L.

DIST	+	H.I.	−	ELEV
B.M.	5.00	13.33		8.33
E-1+05			-7.8	+5.5
DIST	SOUND			
1+40	0.8			+0.9
1+50	4.4			-2.7
1+60	6.0			-4.3

(1.7)



1+40 - 0.8
50 - 4.4
60 - 6.0

(1.7)

14:30

84 - 390' E-W/D/L
86 - 520' E-W/D/L
90 - 180' E-W/D/L
93 - 820' E-W/D/L - 190' E = 1310' Total E
94 - 950' E W/D/L - 140' E = 1390' " E
101 - 350' E W/D/L
97 - R-132+00
98 - R-132+00

8,44

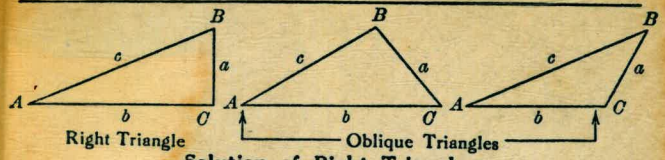
① 98°55' VERONA
② 197°51'00" ↓ LEFT
AV. & SAN RAFAEL ST.

STA-133-8.91

2+00
2+50
2+84 - E/DGE BAYSIDE LANE
2+92 - ℄ " "
3+00 - W/DGE " "
3+50
3+13.3 E/MISS/CLUD
4+52 - ℄ " "

7,62
1.93 8.25
12.55
8.25
4.30 -H₂O 89-59-60
50-33-33
3926.27

TRIGONOMETRIC FORMULÆ



Right Triangle — Oblique Triangles

Solution of Right Triangles

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

Given	Required	
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	$B = 90° - A, b = a \cot A, c = \frac{a}{\sin A}$
A, b	B, a, c	$B = 90° - A, a = b \tan A, c = \frac{b}{\cos A}$
A, c	B, a, b	$B = 90° - A, a = c \sin A, b = c \cos A$,

Solution of Oblique Triangles

Given	Required	
A, B, a	b, c, C	$b = \frac{a \sin B}{\sin A}, C = 180° - (A+B), c = \frac{a \sin C}{\sin A}$
A, a, b	B, c, C	$\sin B = \frac{b \sin A}{a}, C = 180° - (A+B), c = \frac{a \sin C}{\sin A}$
a, b, C	A, B, c	$A+B = 180° - C, \tan \frac{1}{2}(A-B) = \frac{(a-b)\tan \frac{1}{2}(A+B)}{a+b}$, $c = \frac{a \sin C}{\sin A}$
a, b, c	A, B, C	$s = \frac{a+b+c}{2}, \sin \frac{1}{2}A = \sqrt{\frac{(s-b)(s-c)}{bc}}$, $\sin \frac{1}{2}B = \sqrt{\frac{(s-a)(s-c)}{ac}}, C = 180° - (A+B)$
a, b, c	Area	$s = \frac{a+b+c}{2}$, area $= \sqrt{s(s-a)(s-b)(s-c)}$
A, b, c	Area	area $= \frac{bc \sin A}{2}$
A, B, C, a	Area	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° 10′. From Table, Page IX. cos 5° 10′ = .9959. Horizontal distance = 319.4 × .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. Cosine 5° 10′ = .9959. 1 − .9959 = .0041. 319.4 × .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.