

MISSION BAY

29

1880

1880

**DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING**

Roadway of any Width. Side Slopes 1/2 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	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.

BOOK # 29

1730 + 10  
 90 + 95  
 50 + 875  
 60 + 768  
 70 + 651  
 75 + 608  
 80 + 559  
 90 + 497  
 2700 + 390

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.

## Book # 29

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BARRAGAN  
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11-12-47

51+00

11-12-47

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## ORIGINAL X-SECTIONS OF BORROW AREA

DIST SOUND

DIST SOUND

PROJECT 3-1

2+60

2.9

+3.5

1+40

1.9

+4.4

STA- 51+00

2.7

+3.7

50

1.9

—

0+00 = STA-51+00 ON 250' OFFSET (CHANNEL SECT. "D" BY

(6.4)

2.5

+3.9

10:38

1.9

—

SOUND NORTH AT 90° TO OFFSET LINE

10:35

2.5

—

1.8

+4.5

DIST SOUND

DIST SOUND

3+00

2.7

+3.6

(6.3)

1.8

—

0+00

3.9

+2.5

1+30

3.9

+2.5

(6.3)

2.5

+3.8

1.9

+4.4

+10

3.9

—

(6.4)

3.9

—

2.4

+3.9

5+00

1.8

+4.5

10:30

3.9

—

50

3.8

+2.6

2.7

+3.6

1.8

—

(6.4)

3.9

—

3.8

—

2.5

+3.8

1.8

—

3.8

+2.6

3.8

—

50

2.3

+4.0

1.6

+4.7

50

3.8

—

3.6

+2.8

2.3

—

1.6

—

3.5

+2.9

3.8

+2.6

2.2

+4.1

50

1.7

+4.6

3.1

+3.3

2+00

3.9

+2.5

2.1

+4.2

10:40

1.7

—

3.0

+3.4

3.7

+2.7

2.1

—

1.7

—

3.0

—

3.6

+2.8

4+00

2.1

—

1.9

+4.4

1+00

3.1

+3.3

3.5

+2.9

2.0

+4.3

1.9

—

10:33

3.4

+3.0

3.3

+3.1

2.0

—

6+00

1.8

+4.5

1+20

3.9

+2.5

2+50

3.2

+3.2

4+30

2.0

—

6+10

1.9

+4.4

51+00			11-12-47			51+00			11-12-47			(2)
DIST	SOUND		DIST	SOUND		DIST	SOUND		DIST	SOUND		
6+20	2.0	+4.3	8+00	3.0	+3.3	9+80	3.2	+3.0	11+60	3.6	+2.6	
	2.0	—		2.8	+3.5		3.2	—		3.6	—	
(6.3)	2.1	+4.2	(6.3)	3.0	+3.3	10+00	3.5	+2.7		3.7	+2.5	
50	2.2	+4.1		2.6	+3.7	(6.2)	3.5	—	(6.2)	3.8	+2.4	
	2.2	—		2.5	+3.8		3.5	—	12+00	3.9	+2.3	
	2.3	+4.0	50	2.5	—		3.5	—	10:18	3.9	—	
	2.4	+3.9		2.5	—		3.6	+2.6		3.9	—	
	2.4	—		2.6	+3.7	50	3.6	—		3.9	—	
7+00	2.4	—		3.2	+3.1		3.6	—		3.9	—	
	2.6	+3.7		3.0	+3.3		3.5	+2.7	50	3.9	—	
	2.6	—	9+00	2.6	+3.7		3.5	—		3.9	—	
	2.7	+3.6		2.5	+3.8		3.6	+2.6		3.7	+2.5	
10:43	2.7	—	(6.3)	2.5	—	11+00	3.5	+2.7		3.5	+2.7	
50	2.6	+3.7	10:45	2.4	+3.9		3.5	—		3.5	—	
	2.6	—	(6.2)	2.4	+3.8		3.7	+2.5	13+00	3.8	+2.4	
	2.6	—	50	2.5	+3.7		3.6	+2.6	(6.2)	3.5	+2.7	
	2.6	—		2.8	+3.4		3.6	—	(6.1)	4.0	+2.1	
7+90	2.8	+3.5	9+70	3.2	+3.0	11+50	3.6	—	13+30	3.8	+2.3	

51+00			11-12-97		
DIST	SOUND		DIST	SOUND	
13+10	3.2	+2.4	15+20	1.6	+4.5
50	3.6	+2.5	15+30	1.6	—
(6.1)	3.5	+2.6	(6.1)	<del>1.6</del>	—
	3.5	—	50	<del>1.7</del>	—
10:50	3.3	+2.8		<del>2.0</del>	—
	3.0	+3.1			—
14+00	3.0	—			—
	3.0	—			—
	2.6	+3.5			—
	2.5	+3.6			—
	2.4	+3.7			—
50	2.4	—			—
	2.4	—			—
	2.4	—			—
	2.4	—			—
	2.3	+3.8			—
15+00	2.1	+4.0			—
15+10	2.0	+4.1			—

52+00			11-12-97		
0+00 STA-52+00 ON 250' E OFFSET ("D") SOUND NORTH					
DIST	SOUND		DIST	SOUND	
0+00	3.3	+2.5	1+00	3.0	+2.8
+10	3.3	—		2.9	+2.9
11:14	3.3	—		2.7	+3.1
(5.8)	3.3	—	(5.8)	2.9	+3.4
	3.3	—	2+00	2.2	+3.6
50	3.2	+2.6		2.0	+3.8
	3.2	—		2.0	—
	3.2	—		2.0	—
	3.3	+2.5		1.8	+4.0
	3.3	—	50	1.9	+3.9
1+00	3.3	—		1.5	+4.3
	3.2	+2.6		1.5	—
	3.1	+2.7		1.5	—
	3.0	+2.8		1.6	+4.2
	3.0	—	3+00	1.6	—
1+50	3.0	—	3+10	1.6	—

52+00				11-12-47				52+00				11-12-47			
DIST	SOUND			DIST	SOUND			DIST	SOUND			DIST	SOUND		
3+20	<del>1.7</del>	+4.1		5+00	2.1	+3.7		6+80	2.9	+2.8		8+60	3.0	+2.7	
	1.8	+4.0			2.1	—		<del>7+00</del>	2.9	—			3.0	—	
(5.8)	2.0	+3.8		(5.8)	2.1	—		7+00	2.9	—			3.0	—	
50	2.0	—			2.3	+3.5		(5.7)	3.0	+2.7		(5.7)	3.0	—	
	2.0	—			2.8	+3.0			3.1	+2.6		9+00	3.0	—	
	2.0	—		50	2.7	+3.1			3.0	+2.7			3.0	—	
	2.0	—			2.8	+3.0			3.0	—			3.1	+2.6	
	2.1	+3.7			2.6	+3.2		50	3.1	+2.6		11:23	3.3	+2.4	
4+00	2.0	+3.8			2.6	—			3.2	+2.5			3.1	+2.6	
	2.3	+3.5		(5.8)	2.6	—			3.2	—		50	3.3	+2.4	
11:18	2.1	+3.4		6+00	2.6	—			3.3	+2.4			3.3	—	
	2.1	+3.7		11:20	2.6	—			3.4	+2.3			3.4	+2.3	
	2.0	+3.8		(5.7)	2.5	+3.2		8+00	3.4	—			3.4	—	
50	2.0	—			2.6	+3.1			3.4	—			3.5	+2.2	
	2.1	+3.7			2.7	+3.0			3.5	+2.2		10+00	3.5	—	
	2.1	—		50	2.7	—			3.4	+2.3			3.4	+2.3	
	2.0	+3.8			2.7	—			3.4	—			3.4	—	
4+90	2.4	+3.4		6+70	2.8	+2.9		8+50	3.2	+2.5		10+30	3.4	—	

52+00			11-12-47		
DIST	SOUND		DIST	SOUND	
10+90	3.4	+2.3	12+20	3.9	+1.7
50	7.5	+2.2		3.9	—
(5.7)	3.5	—	(5.6)	3.9	—
	3.5	—	50	3.9	—
	3.6	+2.1		3.9	—
	3.6	—		3.9	—
11+00	3.5	+2.2		3.7	+1.9
	3.5	—		3.7	—
	3.7	+2.0	13+00	3.7	—
	3.7	—		3.7	—
	3.8	+1.9		3.7	—
50	3.8	—		3.7	—
	3.7	+2.0		3.5	+2.1
(5.7)	3.7	—	50	3.5	—
(5.6)	3.8	+1.8		3.4	+2.2
11:25	3.9	+1.7		3.4	—
12+00	3.9	—		3.4	—
12+10	3.9	—	13+00	3.3	+2.3

52+00			11-12-47		
DIST	SOUND		DIST	SOUND	
14+00	3.3	+2.3			
(5.6)	3.3	—			
	3.1	+2.5			
	3.0	+2.6			
	2.8	+2.8			
50	2.5	+3.1			
	2.5	—			
	2.4	+3.2			
	2.4	—			
	2.4	—			
15+00	2.4	—			
	2.1	+3.5			
	1.9	+3.7			
	1.8	+3.8			
STAKE	1.7	+3.9			
15+50					
11:30					

(5)



11-12-47

53+00

11-12-47

②

PX 53+00						PX 53+00					
0700 = 574-53+00 ON 250' OFFSET (20' 2/4) SOUND NORTH											
DIST	SOUND		DIST	SOUND		DIST	SOUND		DIST	SOUND	
						3+20	1.8	+2.6	5+00	2.1	+2.3
							1.7	+2.7		2.2	+2.2
0+00	2.2	+2.2	1+60	2.2	+2.2	12:40	1.7	—		2.2	—
						50	1.7	—		2.2	—
110	2.2	—		2.2	—						
12:37	2.2	—		2.2	—	(4.4)	1.7	—	(4.4)	2.3	+2.1
(4.4)	2.1	+2.3	(4.4)	2.1	+2.3		1.7	—	50	2.3	—
	2.1	—	2+00	2.1	—		1.7	—		2.3	—
50	2.1	—		2.1	—		1.7	—		2.3	—
	2.1	—		2.1	—	4+00	1.7	—		2.4	+2.0
	2.1	—		2.0	+2.4		1.7	—		2.4	—
	2.1	—		2.0	—		1.9	+2.5	6+00	2.4	—
	2.1	—	50	2.0	—		1.9	—		2.5	+1.9
1+00	2.1	—		2.0	—		1.9	—		2.5	—
	2.1	—		2.0	—	50	1.9	—		2.5	—
	2.2	+2.2		2.0	—		2.0	+2.4		2.6	+1.8
	2.2	—		2.0	—		1.9	+2.5	50	2.6	—
	2.2	—	3+00	1.8	+2.6		2.1	+2.3		2.6	—
1+50	2.1	+2.1	3+10	1.8	—	4+90	2.1	—	6+70	2.7	+1.7

53+00			11-12-97			53+00			11-12-97		
DIST	SOUND		DIST	SOUND		DIST	SOUND		DIST	SOUND	
6+80	2.7	+1.7	8+60	2.6	+1.8	10+40	2.8	+1.5	12+20	2.9	+1.4
<del>PX</del>	2.7	—		2.6	—	50	2.8	—		2.9	—
7+00	2.7	—		2.5	+1.9	12:45	2.8	—	(4.3)	2.9	—
(4.4)	2.7	—	(4.4)	2.5	—	(4.3)	2.8	—	50	2.9	—
	2.7	—	9+00	2.5	—		2.8	—		2.9	—
	2.7	—		2.4	+2.0		2.8	—		2.9	—
	2.7	—		2.2	+2.2	11+00	2.8	—		2.8	+1.5
50	2.7	—		2.2	—		2.8	—		2.7	+1.6
	2.7	—		2.1	+2.3		2.8	—	13+00	2.6	+1.7
	2.8	+1.6	50	2.2	+2.2		2.9	+1.4		2.6	—
	2.9	+1.5		2.4	+2.0		2.9	—		2.5	+1.8
12:43	3.0	+1.4		2.5	+1.9	50	2.9	—		2.6	+1.7
8+00	3.0	—		2.5	—		2.9	—		2.6	—
	3.0	—		3.0	+1.4		2.9	—	50	2.6	—
	3.0	—	10+00	2.8	+1.6		2.9	—		2.5	+1.8
	2.9	+1.5	(4.4)	2.8	—		2.9	—		2.5	—
	2.9	—	(4.3)	2.8	+1.5	12+00	2.9	—		2.5	—
8+50	2.9	—	10+30	2.8	—	12+10	2.9	—	13+90	2.5	—

11-12-47

53+00			D.I.S.T. SOUND		
DIST	SOUND		DIST	SOUND	
14+00	2.5	+1.8			
	2.3	+2.0			
(4.3)	2.2	+2.1			
	2.1	+2.2			
	2.1	—			
50	2.1	—			
	2.1	—			
<u>12'AB</u>	2.0	+2.3			
	1.5	+2.8			
	1.3	+3.0			
STAKE					
15+00	1.0	+3.3			

11-12-47 (8)

RECORD STA-54+00 ON 250' G. OFFSET (20") SOUND NORTH

54+00			D.I.S.T. SOUND		
DIST	SOUND		DIST	SOUND	
0+00	2.1	+2.0	14+00	2.2	+1.9
	2.1	—		2.2	—
<u>13'01</u>	2.1	—	(4.1)	2.1	+2.0
(4.1)	2.1	—		2.1	—
	2.1	—	2+00	2.1	—
	2.1	—		2.1	—
50	2.1	—		2.1	—
	2.1	—		2.1	—
	2.1	—		2.0	+2.1
	2.2	+1.9		2.0	—
	2.2	—	50	2.0	—
17+00	2.3	+1.8		2.0	—
	2.3	—	<u>13'03</u>	2.0	—
	2.3	—		2.0	—
	2.3	—		2.0	—
	2.2	+1.9	3+00	1.9	+2.2
17+50	2.2	—	3+10	1.9	—

54+00			11-12-47		
DIST	SOUND		DIST	SOUND	
<del>3+00</del>	1.9	+2.2	5+00	2.1	+2.0
	1.9	—		2.1	—
(4.1)	1.9	—	(4.1)	2.2	+1.9
50	1.9	—		2.3	+1.8
	1.9	—		2.4	+1.7
	1.9	—	50	2.4	—
	1.9	—		2.5	+1.6
	1.9	—		2.7	+1.4
4+00	1.9	—		2.7	—
	1.9	—		2.7	—
	1.9	—	6+00	2.7	—
	1.9	—		2.7	—
	2.0	+2.1		2.8	+1.3
50	2.0	—		2.8	—
	2.0	—	13:05	2.9	+1.2
	2.0	—	50	2.9	—
	2.0	—		2.9	—
4+90	2.0	—	6+70	2.9	—

54+00			11-12-47		
DIST	SOUND		DIST	SOUND	
<del>6+80</del>	3.0	+1.1	8+60	3.0	+1.1
	3.0	—		3.0	—
	3.0	—		3.0	—
7+00	3.0	—		3.0	—
(4.1)	3.0	—	(4.1)	3.0	—
	3.0	—	9+00	3.0	—
	3.0	—		3.0	—
	3.0	—		3.0	—
	3.0	—		3.0	—
	3.0	—		3.0	—
	3.1	+1.0		2.9	+1.2
	3.1	—	50	2.9	—
	3.0	+1.1		2.9	—
	3.0	—		2.9	—
8+00	3.0	—		2.9	—
	3.0	—		2.9	—
	3.0	—		2.9	—
	3.0	—	10+00	2.9	—
	3.0	—	13:08	2.9	—
	3.0	—		3.0	+1.1
8+50	3.0	—	10+30	2.9	+1.2



55+00

11-12-47

55+00

11-12-47

⑫

DIST SOUND

DIST SOUND

0700 STA 55+00 ON 250' OFFSET (1/4") SOUND NORTH

3+20

2.0

+1.7

5+00

2.5

+1.2

DIST SOUND

DIST SOUND

2.0

PX

2.7

+1.0

6+00 2.1 +1.6 1+60 2.2 +1.5

(3.7)

2.0

—

(3.7)

2.7

—

+10 2.1 — 2.2 —

50

2.0

—

2.8

+0.9

13:25 2.2 +1.5 2.1 +1.6

2.0

—

2.9

+0.8

(3.7) 2.3 +1.4 (3.7) 2.1 —

2.0

—

50

2.9

—

2.3 — 2+00 2.1 —

2.1

+1.6

2.9

—

50 2.4 +1.3 2.1 —

2.1

—

3.0

+0.7

2.4 — 2.1 —

4+00

2.1

—

3.0

—

2.3 +1.4 2.1 —

2.2

+1.5

3.0

—

2.3 — 2.0 +1.7

2.2

—

6+00

3.1

+0.6

2.2 +1.5 50 2.0 —

2.3

+1.4

3.0

+0.7

1+00 2.2 — 2.0 —

2.3

—

3.0

—

2.2 — 2.1 +1.6

50

2.3

—

(3.7)

3.0

—

2.2 — 2.1 —

13:28

2.4

+1.3

(3.6)

3.0

+0.6

2.2 — 2.0 +1.7

2.4

—

50

3.0

—

2.2 — 3+00 2.0 —

2.4

—

3.1

+0.5

1+50 2.2 — 3+10 2.0 —

4+90

2.5

+1.2

6+70

3.1

—

55+00			11-12-47			55+00			11-12-47		
DIST	SOUND		DIST	SOUND		DIST	SOUND		DIST	SOUND	
6+80	3.1	+0.5	8+60	3.0	+0.6	10+90	2.9	+0.7	12+20	2.6	+1.0
Px	3.1	—		3.0	—	50	2.8	+0.8		2.6	—
7+00	3.1	—	(3.6)	3.0	—	(3.6)	2.8	—	(3.6)	2.5	+1.1
13:30	3.0	+0.6		3.0	—		2.8	—	50	2.5	—
(3.6)	3.0	—	9+00	3.0	—		2.8	—		2.5	—
	3.0	—		3.0	—		2.8	—		2.5	—
	3.0	—		3.0	—	11+00	2.8	—		2.5	—
50	3.1	+0.5		2.9	+0.7		2.7	+0.9		2.5	—
	3.1	—		2.9	—		2.8	+0.8	13+00	2.5	—
	3.0	+0.6	50	2.9	—		2.8	—		2.5	—
	3.0	—		2.9	—		2.8	—		2.4	+1.2
	3.0	—		2.9	—	50	2.8	—		2.4	—
8+00	3.0	—		2.9	—		2.8	—		2.4	—
	3.0	—		2.9	—		2.8	—	50	2.3	+1.3
	3.0	—	10+00	2.9	—	13:33	2.7	+0.9		2.1	+1.5
	3.0	—		2.9	—		2.7	—		2.1	—
	3.0	—		2.9	—	12+00	2.7	—		2.1	—
8+50	3.0	—	10+30	2.9	—	12+10	2.6	+1.0	13+90	2.1	—

55+00      11-12-97

DIST	SOUND	DIST	SOUND
14+00	2.1 +1.5		
	2.1 —		
(3.6)	2.1 —		
	2.0 +1.6		
	2.0 —		
50	1.8 +1.8		
	1.7 +1.9		
	1.7 —		
	1.6 +2.0		
	1.5 +2.1		
15+00	1.4 +2.2		
	1.5 +2.1		
	0.7 +2.9		
	1.5 +2.9		
04 01	0.9 +3.2		
	0.7 +3.2		
13:38	0.1 +3.5		
15+50 STAKE	+0.1 +3.7		

16+00      11-12-97      (13)

~~1700 = STA-96+00 ON 250' E OFFSET (47') SOUND NORTH. 8/4~~

DIST	SOUND	DIST	SOUND
0+00	1.9 +1.9	17+00	2.0 +1.3
7+00	2.0 +1.3		2.0 —
13:57	2.0 —		2.0 —
(3.3)	2.0 —	(3.3)	2.0 —
	2.0 —	2+00	2.0 —
50	2.0 —		2.0 —
	2.0 —		2.0 —
	2.1 +1.2		2.0 —
	2.1 —		2.0 —
	2.1 —	50	2.0 —
1+00	2.1 —		2.0 —
	2.1 —		2.0 —
	2.1 —	13:58	2.0 —
13:55	2.1 —		1.9 +1.4
	2.1 —	3+00	1.8 +1.5
1+50	2.1 —	3+00	1.8 —



46+00

11-12-17

DIST	SOUND	DIST	SOUND
3+20	1.6	+1.7	
	1.5	+1.8	
(3.3)	1.4	+1.9	
50	1.2	+2.1	
	1.2	—	
	1.2	—	
	1.1	+2.2	
19:00	1.0	+2.3	
4+00	1.0	—	
	1.0	—	
	1.0	—	
	1.0	—	
	0.9	+2.4	
50	0.9	—	
	0.7	+2.6	
	0.3	+3.0	

STA- #2/W

BARRAGAN  
SHERRY  
STANLEY

11-13-17

(14)

0+00 (PT. 200' W/STA-14+00 CHANNEL SECT. D' B/A) = STA- #2/W

NOTE - SEE PAGE (28) FOR #1/W

SECT. AT 90° TO B/L.

DIST	SOUND	DIST	SOUND
0+00	5.4	+1.1	1+60 5.5 +1.0
+10	5.4	—	5.5 —
10:11	5.5	+1.0	5.5 —
(6.5)	5.6	+0.9	(6.5) 5.5 —
	5.6	—	2+00 5.5 —
50	5.6	—	5.4 +1.1
	5.6	—	5.4 —
	5.7	+0.8	5.4 —
	5.7	—	5.3 +1.2
	5.7	—	50 5.3 —
1+00	5.7	—	5.3 —
	5.8	+0.7	5.3 —
	5.7	+0.8	5.3 —
	5.7	—	5.2 +1.3
	5.7	—	3+00 5.2 —
1+50	5.6	+0.9	3+10 5.2 —

# 2/W			11-13-47			# 2/W			11-13-47			(19)
DIST	SOUND		DIST	SOUND		DIST	SOUND		DIST	SOUND		
<del>3+20</del>	<del>5.1</del>	+1.4	5+00	4.9	+1.6	6+80	4.0	+2.5	8+60	3.8	+2.7	
	5.1	—		4.9	—		4.0	—		3.7	+2.8	
(6.5)	5.0	+1.5	10+15	4.8	+1.7	7+00	4.0	—		3.7	—	
50	5.0	—	(6.5)	4.7	+1.8	(6.5)	4.0	—	(6.5)	3.7	—	
	5.0	—		4.6	+1.9		4.0	—	9+00	3.6	+2.9	
	5.0	—	50	4.5	+2.0		4.0	—		3.5	+3.0	
	5.0	—		4.5	—		4.0	—		3.5	—	
	5.0	—		4.4	+2.1	50	3.9	+2.6		3.4	+3.1	
4+00	5.0	—		4.3	+2.2		3.9	—		3.4	—	
	5.0	—		4.3	—		3.9	—	50	3.3	+3.2	
	5.0	—	6+00	4.1	+2.4		3.8	+2.7	10+18	3.1	+3.4	
	5.0	—		4.1	—		3.8	—		2.9	+3.6	
	5.0	—		4.1	—	8+00	3.9	+2.6		2.8	+3.7	
50	5.0	—		4.1	—		3.8	+2.7		2.7	+3.8	
	5.0	—		4.2	+2.3		3.8	—	10+00	2.7	—	
	5.0	—	50	4.1	+2.4		3.8	—		2.5	+4.0	
	5.0	—		4.1	—		3.8	—		2.4	+4.1	
4+90	4.9	+1.6	6+70	4.1	—	8+50	3.8	—	10+30	2.0	+4.5	

#3/W

11-13-77

0+00 = (PT. 300' W/STA-11+00 SECT. 'D' B/L) = STA-#3/W

SECT. AT 90° SOUND SOUTH

DIST	SOUND		DIST	SOUND	
0+00	5.2	+1.2	0+80	5.5	+0.9
1+00	5.2	—		5.5	—
10:30	5.3	+1.1	1+00	5.5	—
(6.4)	5.3	—	(6.4)	5.6	+0.8
	5.2	+1.2		5.6	—
50	5.1	+1.3		5.5	+0.9
	5.1	—		5.5	—
	5.1	—	50	5.5	—
SOUND NORTH		(SAME 0+00)		5.5	—
0+10	5.3	+1.1		5.6	+0.8
(6.4)	5.3	—		5.5	+0.9
	5.3	—		5.5	—
	5.4	+1.0	2+00	5.4	+1.0
50	5.4	—		5.4	—
	5.5	+0.9		5.4	—
0+70	5.5	—	2+30	5.3	+1.1

#3/W

(20)

DIST	SOUND		DIST	SOUND	
2+90	5.3	+1.1	4+20	4.8	+1.6
50	5.3	—	PX	4.8	—
	5.3	—	(6.4)	4.7	+1.7
(6.4)	5.2	+1.2	50	4.7	—
	5.1	+1.3		4.7	—
	5.0	+1.4		4.6	+1.8
3+00	5.0	—		4.6	—
	5.0	—		4.6	—
10:33	5.0	—	5+00	4.6	—
	5.0	—		4.6	—
	5.0	—		4.6	—
50	4.9	+1.5	(6.4)	4.6	—
	4.9	—	(6.3)	4.6	+1.7
	4.9	—	50	4.5	+1.8
	4.9	—	10:35	4.5	—
	4.8	+1.6		4.5	—
4+00	4.8	—		4.5	—
4+10	4.8	—	5+90	4.4	+1.9

	# 3/W			11-13-47		
	DIST	SOUND	DIST	SOUND	DIST	SOUND
	6+00	4.9	+1.9	7+80	4.0	+2.3
	<del>4.9</del>	—		4.0	—	
	(6.3)	4.9	—	8+00	4.0	—
		4.9	—	(6.3)	4.0	—
		4.9	—		4.0	—
50	4.9	—		4.0	—	
	4.3	+2.0		3.9	+2.4	
	4.3	—	50	3.9	—	
	4.3	—		3.8	+2.5	
	4.2	+2.1		3.8	—	
7+00	4.1	+2.2		3.8	—	
	4.1	—		3.7	+2.6	
	4.1	—	9+00	3.7	—	
	4.1	—		3.6	+2.7	
	4.1	—	10:28	3.6	—	
50	4.0	+2.3		3.6	—	
	4.0	—		3.5	+2.8	
7+70	4.0	—	9+50	3.4	+2.9	

	# 3/W			(21)		
	DIST	SOUND	DIST	SOUND	DIST	SOUND
	9+00	3.9	+2.9			
		3.3	+3.0			
	(6.3)	3.1	+3.2			
		3.0	+3.3			
10+00	2.9	+3.4				

# 4/W

11-13-47

0 0+00 = (Pt. - 400' West Sta. 1+00 Sect. "D" 2/4) = Sta. # 4/W

: SECT. AT 90°

DIST	SOUND		DIST	SOUND	
0+00	5.3	+0.9	1+60	8.0	-1.8
+10	5.3	—	1+70	8.9	-2.2
10:18	5.3	—	SOUND NORTH (SAME 0+00)		
(6.2)	5.3	—	0+10	5.4	+0.8
	5.3	—	10:52	5.4	—
50	5.4	+0.8		5.4	—
	5.4	—	(6.2)	5.4	—
	5.3	+0.9	50	5.5	+0.7
	5.3	—		5.5	—
	5.4	+0.8		5.5	—
1+00	5.5	+0.7		5.5	—
	6.0	+0.2		5.9	+0.8
	6.2	0.0	1+00	5.4	—
	6.6	-0.4		5.4	—
	7.1	-0.9		5.3	+0.9
1+50	7.6	-1.4	1+30	5.3	—

# 4/W

11-13-47

(22)

DIST	SOUND		DIST	SOUND	
1+40	5.3	+0.9	3+20	4.7	+1.5
50	5.2	+1.0		4.7	—
	5.2	—	10:55	4.6	+1.6
	5.2	—	50	4.5	+1.7
(6.2)	5.2	—	(6.2)	4.5	—
	5.1	+1.1		4.5	—
2+00	5.1	—		4.4	+1.8
	5.1	—		4.4	—
	5.0	+1.2	1+00	4.4	—
	5.0	—		4.4	—
	5.0	—		4.3	+1.9
50	5.0	—		4.3	—
	5.0	—		4.2	+2.0
	4.9	+1.3	50	4.2	—
	4.8	+1.4		4.2	—
	4.8	—		4.2	—
3+00	4.7	+1.5		4.2	—
3+10	4.7	—	4+90	4.2	—

# 4/W				# 4/W				11-13-47	(23)
DIST	SOUND		DIST	SOUND		DIST	SOUND	DIST	SOUND
5+00	<del>4.1</del>	+2.1	6+80	4.0	+2.2	8+60	3.1	<del>+</del> 2.8	
(6.2)	4.1	—	(6.2)	4.0	—	(6.2)	3.1	—	
	4.1	—	7+00	4.0	—		3.2	+3.0	
	4.1	—		4.0	—		2.7	+3.5	
	4.0	+2.2		4.0	—	9+00	2.5	+3.7	
50	4.0	—		4.0	—				
	4.1	+2.1		4.0	—				
	4.1	—	50	4.0	—				
	4.1	—		4.0	—				
	4.1	—		4.0	—				
6+00	4.1	—		4.0	—				
	4.1	—		4.0	—				
	4.1	—	8+00	3.9	+2.3				
	4.0	+2.2		3.9	—				
10:58	4.0	—		3.8	+2.4				
50	4.0	—		3.7	+2.5				
	4.0	—		3.7	—				
6+70	4.0	—	8+50	3.5	+2.7				

# 5/W

11-13-47

0 0+00 = (PT. 500' W/STA-19+00 SECT. D B/L.) = STA #5/W

SECT. AT 90°

DIST	SOUND	DIST	SOUND
	<u>SOUND SOUTH</u>	1+50	10.5 -4.5
0+00	5.2 +0.8	<u>11:13</u>	10.5 —
1+0	5.2 —		10.4 -4.4
<u>11:10</u>	5.3 +0.7		9.8 -3.8
<u>(6.0)</u>	5.3 —	<u>(6.0)</u>	9.0 -3.0
	5.5 +0.5	2+00	8.7 -2.7
50	5.5 —		8.3 -2.3
	6.0 0.0		7.8 -1.8
	7.0 -1.0		7.5 -1.5
	7.8 -1.8		7.2 -1.2
	8.6 -2.6	50	7.0 -1.0
1+00	9.1 -3.1		7.0 —
	9.5 -3.5	<u>11:15</u>	6.8 -0.8
	10.3 -4.3	<u>(6.0)</u>	
	10.3 —	<u>(5.9)</u>	
1+40	10.3 —	3+00	

# 5/W

11-13-47

(27)

DIST	SOUND	DIST	SOUND
	<u>SOUND NORTH</u> (SAME 0+00)	1+80	4.5 +1.4
0+10	5.9 +0.5		4.4 +1.5
	5.9 —	2+00	4.4 —
<u>11:14</u>	5.1 +0.8		4.4 —
<u>(5.9)</u>	5.1 —	<u>(5.9)</u>	4.4 —
50	5.1 —		4.3 +1.6
	5.0 +0.9		4.3 —
	5.0 —	50	4.3 —
	5.0 —		4.3 —
	4.9 +1.0		4.2 +1.7
1+00	4.9 —	<u>11:18</u>	4.2 —
	4.9 —		4.2 —
	4.8 +1.1	3+00	4.0 +1.9
	4.7 +1.2		4.0 —
	4.6 +1.3		4.0 —
50	4.6 —		4.0 —
	4.5 +1.4		3.9 +2.0
1+70	4.5 —	3+50	3.9 —

# 5/W			11-13-47			# 5/W			11-13-47		
DIST	SOUND		DIST	SOUND		DIST	SOUND		DIST	SOUND	
<del>3+00</del>	3.9	+2.0	5+00	3.9	+1.9	7+20	3.9	+1.9	<del>TX</del>		
	3.9	—	50	3.9	—		3.9	—			
(5.9)	3.9	—	(5.8)	3.9	—	(5.8)	3.9	—			
	3.8	+2.1		3.9	—	50	3.9	—			
4+00	3.7	+2.2		3.9	—		3.8	+2.0			
	3.7	—		3.9	—		3.7	+2.1			
	3.7	—	6+00	3.9	—		3.6	+2.2			
	3.7	—		3.9	—		3.5	+2.3			
	3.7	—		3.9	—	8+00	3.5	—			
50	3.7	—		3.9	—		3.1	+2.7			
	3.7	—		3.9	—		2.1	+3.7			
	3.8	+2.1	50	3.9	—	8+30	1.9	+4.4			
(5.9)	3.8	—		3.8	+2.0	<u>11:23</u>					
(5.8)	3.8	+2.0		3.8	—						
5+00	3.8	—		3.8	—						
	3.8	—		3.8	—						
<u>11:20</u>	3.9	+1.9	7+00	3.8	—						
5+30	3.9	—	7+10	3.8	—						



# 6/W

11-13-47

# 6/W

11-13-47

(26)

0+00 = (Pt. - 600' w/STA. 44+00 SECT. "D" 8/4) = STA. # 6/W

DIST SOUND

DIST SOUND

SECT. AT 90°

3+20 4.1 +0.5 1+30 3.2 +1.3

DIST SOUND

DIST SOUND

4.0 +0.6 3.2 —

SOUND SOUTH

0+00 6.8 -2.2 1+60 6.0 -1.4 (4.6) 4.0 — -50 2.8 +1.7

+10 7.1 -2.8 6.0 — 50 4.0 — (4.5) 2.8 —

12:45 8.0 -3.4 6.0 — 3+60 4.0 — 2.8 —

(4.6) 8.0 — (4.6) 5.5 -0.9 SOUND NORTH (SAME 0+00) 2.8 —

8.1 -3.5 2+00 5.5 — 0+10 5.8 -1.3 2.8 —

50 9.2 -4.6 5.3 -0.7 (4.5) 4.9 -0.4 2+00 2.8 —

10.0 -5.4 12:48 5.1 -0.8 4+00 4.6 -0.1 2.7 +1.8

9.8 -5.2 5.2 -0.6 4.0 +0.5 2.6 +1.9

9.8 — 5.0 -0.4 50 4.0 +0.7 2.6 —

9.6 -5.0 50 5.0 — 3.8 — 2.6 —

1+00 9.7 -5.1 5.0 — 3.5 3.8 +1.0 50 2.4 +2.1

9.1 -4.5 7.8 -0.2 12:52 3.5 — 2.4 —

7.5 7.5 -2.9 4.6 0.0 3.5 — 2.4 —

6.5 -1.9 7.4 +0.2 1+00 3.5 — 2.4 —

6.5 — 3+00 4.3 +0.3 3.4 +1.1 2.3 +2.2

1+50 6.3 -1.7 3+10 4.1 +0.5 1+20 3.4 — 3+00 2.3 —

6/W 11-13-97

DIST	SOUND	DIST	SOUND
3+10	2.2 +2.3	4+90	2.9 +2.0
(4.5)	2.2 —	5+00	2.9 —
	2.1 +2.4		2.9 —
	2.1 —		2.9 —
50	2.1 —	(4.4)	2.5 +1.9
	2.0 +2.5		2.5 —
(4.5)	2.0 —	50	2.5 —
(4.4)	2.1 +2.3		2.5 —
12:55	2.0 +2.4		2.5 —
4+00	2.0 —		2.5 —
	2.0 —		2.5 —
	2.0 —	6+00	2.5 —
	2.2 +2.2		2.5 —
	2.1 +2.3		2.5 —
50	2.1 —		2.5 —
	2.4 +2.0		2.5 —
	2.4 —	50	2.5 —
4+80	2.5 +1.9	6+60	2.5 —

6/W 11-13-97 (27)

DIST	SOUND	DIST	SOUND
6+70	2.9 +2.0		
	2.5 +1.9		
(4.4)	2.5 —		
7+00	2.9 +2.0		
12:58	2.9 —		
	2.3 +2.1		
	2.3 —		
	2.3 —		
50	2.3 —		
	2.2 +2.2		
	2.1 +2.3		
	2.1 —		
	2.0 +2.4		
8+00	2.0 —		
	2.0 —		
13:00	1.8 +2.6		
8+30	1.8 —		
8+40			

SEE PAGE 37 § 39  
FOR #7/W § 8/W

# 1/W

11-19-97

0+00 (Pt. 100' W/STA-44+00 CHANNEL SECT. "D" B/L.) = STA. # 1/W

SOUND NORTH AT 90° TO B/L.

DIST	SOUND		DIST	SOUND	
0+00	5.5	+0.9	1+60	5.4	+1.0
10	5.5	—		5.4	—
10:17	5.5	—		5.4	—
(6.4)	5.5	—	(6.4)	5.4	—
	5.5	—	2+00	5.4	—
50	5.5	—		5.4	—
	5.5	—		5.4	—
	5.5	—		5.4	—
	5.5	—		5.4	—
	5.5	—	50	5.3	+1.1
1+00	5.5	—		5.2	+1.2
	5.5	—		5.2	—
10:20	5.5	—	10:23	5.1	+1.3
	5.5	—		5.1	—
	5.4	+1.0	3+00	5.1	—
1+50	5.4	—	3+10	5.0	+1.4

# 2/W

11-19-97

(28)

DIST	SOUND		DIST	SOUND	
3+20	5.0	+1.4	5+00	4.9	+2.0
	5.0	—		4.3	+2.1
(6.4)	4.9	+1.5	(6.4)	4.2	+2.2
50	4.9	—		4.1	+2.3
	4.9	—		4.0	+2.4
	4.9	—	50	4.0	—
	4.8	+1.6		4.0	—
	4.8	—	10:27	3.9	+2.5
4+00	4.8	—		3.9	—
	4.7	+1.7		3.9	—
	4.7	—	6+00	3.9	—
	4.6	+1.8		3.8	+2.6
	4.5	+1.9		3.8	—
50	4.5	—		3.7	+2.7
	4.5	—		3.7	—
	4.5	—	50	3.7	—
	4.5	—		3.7	—
4+30	4.4	+2.0	6+70	3.7	—

# 1/W

11-19-97

(23)

DIST	SOUND		DIST	SOUND	
6+80	3.7	+2.7	8+60	2.2	+4.2
(6.4)	3.7	—		2.0	+4.4
7+00	3.6	+2.8	(6.4)	1.9	+4.5
	3.1	+3.0		1.9	—
	3.1	—	9+00	1.8	+4.6
	3.3	+3.1			
	3.1	+3.3			
50	3.0	+3.4			
	2.9	+3.5			
	2.8	+3.6			
	2.7	+3.7			
	2.6	+3.8			
8+00	2.5	+3.9			
10:30	2.5	—			
	2.4	+4.0			
	2.1	+4.3			
	2.1	—			
8+50	2.2	+4.2			

56+00

11-13-97

0+00 = STA. 56+00 ON 250' OFFSET (2" B/L)

PX SOUND NORTH AT 90° TO B/L.

DIST	SOUND		DIST	SOUND	
0+00	3.5	+0.6	1+60	3.4	+0.7
+10	3.5	—	13:20	3.4	—
13:17	3.5	—		3.4	—
(4.1)	3.6	+0.5	(4.1)	3.5	+0.6
	3.6	—	2+00	3.5	—
50	3.7	+0.4		3.5	—
	3.5	+0.6		3.5	—
	3.4	+0.7		3.8	+0.3
	3.4	—		3.7	+0.4
	3.4	—	50	3.6	+0.5
1+00	3.4	—		3.6	—
	3.5	+0.6		3.9	+0.2
	3.5	—		3.9	—
	3.5	—		3.9	—
	3.4	+0.7	3+00	3.8	+0.3
1+50	3.4	—	3+10	3.7	+0.4

56+00

11-13-97

(30)

DIST	SOUND		DIST	SOUND	
3+20	3.6	+0.5	5+00	3.7	+0.4
	3.6	—		3.8	+0.3
(4.1)	3.6	—		3.8	—
50	3.6	—	(4.1)	3.8	—
17:23	3.5	+0.6	(4.0)	3.8	+0.2
	3.5	—	50	3.8	—
	3.5	—		3.8	—
	3.5	—		3.7	+0.3
4+00	3.5	—	13:25	3.7	—
	3.5	—		3.7	—
	3.5	—	6+00	3.7	—
	3.5	—		3.7	—
	3.8	+0.3		3.7	—
50	3.6	+0.5		3.7	—
	3.7	+0.4		3.7	—
	3.7	—	50	3.7	—
	3.7	—		3.7	—
4+30	3.7	—	6+70	3.7	—

56+00  
11-13-97

PX SOUND			SOUND		
DIST			DIST		
6+80	3.7	+0.3	8+60	3.2	+0.8
	3.6	+0.4		3.3	+0.7
7+00	3.6	—		3.4	+0.6
(4.0)	3.6	—	(4.0)	3.3	+0.7
	3.6	—	9+00	3.3	—
	3.5	+0.5		3.3	—
	3.4	+0.6		3.3	—
50	3.4	—		3.3	—
	3.4	—		3.3	—
	3.4	—	50	3.3	—
	3.4	—		3.3	—
	3.4	—		3.3	—
8+00	3.3	+0.7		3.3	—
	3.3	—		3.3	—
	3.3	—	10+00	3.1	+0.9
	3.2	+0.8			
	3.2	—			
8+50	3.2	—			

57+00 PX  
11-13-17 (31)

STATION - 57+00 ON 250' OFFSET (0.94) SOUND NORTH AT 90° TO PK

SOUND			SOUND		
DIST			DIST		
0+00	5.0	-1.2	1+60	4.5	-0.7
	5.0	—		4.5	—
13:57	5.0	—		4.3	-0.5
(3.8)	5.0	—	(3.8)	4.1	-0.3
	5.0	—	2+00	4.1	—
50	5.0	—		4.0	-0.2
	4.8	-1.0		4.0	-0.2
	4.7	-0.9		4.1	-0.3
	4.7	—		4.2	-0.4
	4.6	-0.8	50	4.1	-0.3
1+00	4.6	—	13:40	4.1	—
	4.5	-0.7		4.0	-0.2
	4.5	—		4.0	—
	4.5	—		4.0	—
	4.5	—	3+00	4.0	—
1+50	4.5	—	3+10	4.0	—

4-13-47

PX		57+00			
DIST	SOUND	DIST	SOUND		
3+20	4.0	-0.2	5+00	3.7	+0.1
	4.0	—	13:43	3.7	—
(3.8)	4.0	—	(3.8)	3.7	—
50	4.0	—		3.9	-0.1
	4.0	—		3.7	+0.1
	4.0	—	50	3.7	—
	3.9	-0.1		3.6	+0.2
	3.9	—		3.5	+0.3
7+00	3.9	—		3.5	—
	3.9	—		3.5	—
	3.9	—	6+00	3.5	—
	3.9	—		3.5	—
	3.9	—		3.5	—
50	3.8	0.0	(3.8)	3.4	+0.4
	3.8	—	(3.7)	3.4	+0.3
	3.7	+0.1	50	3.3	+0.4
	3.7	—		3.4	+0.3
7+90	3.7	—	6+70	3.4	—

11-13-47

PX		57+00			
DIST	SOUND	DIST	SOUND		
6+80	3.9	+0.3	8+00	3.1	+0.6
	3.9	—		3.0	+0.7
7+00	3.5	+0.2	(3.7)	3.0	—
13:45	3.5	—		3.0	—
(3.7)	3.3	+0.4	9+00	3.0	—
	3.2	+0.5		3.0	—
	3.2	—		3.0	—
50	3.2	—		3.0	—
	3.2	—		3.0	—
	3.2	—	50	3.1	+0.6
	3.2	—		3.1	—
	3.2	—		3.1	—
8+00	3.2	—		3.0	+0.7
	3.1	+0.6		3.0	—
	3.1	—	10+00	3.0	—
	3.1	—	13:47		
	3.1	—			
8+50	3.1	—			

(32)

11-13-47

58+00

11-13-47

(33)

58+00.

58+00					58+00.						
					DIST	SOUND					
0+00 = STA. 58+00 ON 250' G. OFFSET (1" @ 1/4) SOUND NORTH AT 90°					3+20	3.8	-0.3	5+00	3.4	0.0	
<del>DIST</del>	<del>SOUND</del>		DIST	SOUND				<del>PX</del>			
0+00	6.0	-2.5	1+60	4.7	-1.2	(3.5)	3.7	-0.2	(3.9)	3.4	—
+10	5.8	-2.3		4.5	-1.0	50	3.7	—		3.3	+0.1
13:55	5.8	—	13:58	4.4	-0.9		3.8	-0.3		3.3	—
(3.5)	5.8	—	(3.5)	4.3	-0.8		3.7	-0.2	50	3.2	+0.2
	5.9	-2.4	2+00	4.2	-0.7		3.7	—		3.2	—
50	5.9	—		4.2	—		3.7	—		3.2	—
	5.6	-2.1		4.1	-0.4	4+00	3.7	—		3.2	—
	5.6	—		4.1	—		3.6	-0.1		3.4	0.0
	5.5	-2.0		4.1	—	(3.5)	3.6	—	6+00	3.4	—
	5.4	-1.9	50	4.1	—	(3.4)	3.5	-0.1		3.3	+0.1
1+00	5.0	-1.5		4.0	-0.5		3.5	—		3.2	+0.2
	5.0	—		4.0	—	50	3.5	—		3.1	+0.3
	4.9	-1.4		4.0	—		3.5	—		3.1	—
	4.9	—		4.0	—	14:00	3.5	—	50	3.1	—
	4.8	-1.3	3+00	4.1	-0.6		3.5	—		3.1	—
1+50	4.8	—	3+10	4.0	-0.5	4+90	3.4	0.0	6+70	3.1	—



58+00 11-13-47

DIST	SOUND		DIST	SOUND
6+80	3.1	+0.3	8+00	3.0 +0.4
PX	3.1	—		2.9 +0.5
7+00	3.1	—		2.9 —
(3.9)	3.1	—	(3.4)	2.9 —
	3.1	—	9+00	2.9 —
	3.0	+0.4		2.9 —
	3.0	—		2.9 —
50	3.0	—		2.9 —
	3.0	—		2.9 —
	3.0	—	50	2.9 —
	3.0	—		2.9 —
	3.0	—		2.9 —
8+00	3.0	—		2.9 —
	3.0	—		2.9 —
11:03	3.0	—	10+00	2.9 2.9 <del>2.9</del>
	3.0	—	11:05	
	3.0	—		
8+50	3.0	—		

59+00 11-13-47 (39)

PX

0+00 = STA- 59+00 ON 250' OFFSET (D' 9/4) SOUND NORTH.

DIST	SOUND		DIST	SOUND
0+00	5.3	-2.0	1+60	4.8 -1.5
+10	5.3	—		4.8 —
19:14	5.3	—		4.7 -1.4
(3.3)	5.3	—	(3.3)	4.6 -1.3
	5.2	-1.9	2+00	4.4 -1.1
50	5.3	-2.0		4.3 -1.0
	5.1	-1.8		4.3 —
	5.1	—		4.2 -0.9
	5.1	—		4.1 -0.8
	5.0	-1.7	50	4.1 —
1+00	5.0	—		4.1 —
	5.0	—		4.0 -0.7
	5.0	—		3.9 -0.6
	5.0	—		3.9 —
	5.0	—	3+00	3.8 -0.5
1+50	4.9	-1.6	3+10	3.7 -0.4

1-13-47						11-13-47					
DIST	SOUND		DIST	SOUND		DIST	SOUND		DIST	SOUND	
3+20	3.6	-0.3	5+00	3.1	+0.2	6+80	2.9	+0.3	8+60	2.7	+0.5
	3.6	—		3.1	—		2.9	—		2.7	—
(3.3)	3.5	-0.2	(3.3)	3.1	—	7+00	2.9	—	14:23	2.7	—
50	3.5	—		3.1	—	(3.2)	2.9	—	(3.2)	2.7	—
	3.5	—		3.1	—		2.9	—	9+00	2.6	+0.6
	3.4	-0.1	50	3.0	+0.3		2.9	—		2.6	—
	3.4	—	(3.3)	3.0	—		2.9	—		2.6	—
14:18	3.4	—	(3.2)	3.0	+0.2	50	2.9	—		2.6	—
7+00	3.2	+0.1	14:20	3.0	—		2.9	—		2.5	+0.7
	3.2	—		3.0	—		2.8	+0.4	50	2.5	—
	3.2	—	6+00	3.0	—		2.8	—		2.5	—
	3.2	—		3.0	—		2.8	—		2.5	—
	3.2	—		3.0	—	8+00	2.8	—		2.5	—
50	3.2	—		3.0	—		2.8	—		2.5	—
	3.2	—		3.0	—		2.7	+0.5	10+00	2.5	—
	3.2	—	50	3.0	—		2.7	—	14:25		
	3.3	0.0		2.9	+0.3		2.7	—			
7+90	3.3	—	6+70	2.9	—	8+50	2.7	—			

(35)

60+00 11-13-47  
 0+00 STA 60+00 ON 250' OFFSET (10' SW) SOUND NORTH, PX

DIST	SOUND	DIST	SOUND
0+00	7.1 -1.1	1+60	4.1 -1.1
+10	7.2 -1.2		4.0 -1.0
19:33	7.3 -1.3		4.0 —
(3.0)	7.5 -1.5	(3.0)	4.0 —
	7.7 -1.7	2+00	4.0 —
50	7.6 -1.6		4.0 —
	7.7 -1.7		3.9 -0.9
	7.7 —		3.9 —
	7.7 —		3.9 —
	7.7 —	50	3.8 -0.8
1+00	7.6 -1.6		3.7 -0.7
	7.6 —		3.6 -0.6
	7.6 —		3.5 -0.5
	7.5 -1.5		3.5 —
	7.5 —	3+00	3.5 —
1+50	7.3 -1.3	3+10	3.4 -0.4

60+00 11-13-47 (36)

DIST	SOUND	DIST	SOUND
3+20	3.4 -0.4	5+00	2.9 +0.1
	3.3 -0.3		2.9 —
(3.0)	3.3 —	(3.0)	2.9 —
50	3.2 -0.2		2.9 —
	3.2 —		2.9 —
	3.1 -0.1	50	2.9 —
	3.1 —		2.9 —
	3.1 —		2.9 —
4+00	3.2 -0.2		2.9 —
	3.1 -0.1		2.9 —
	3.1 —	6+00	2.9 —
	3.0 0.0		2.9 —
	3.0 —		2.9 —
50	3.0 —	(3.0)	2.8 +0.2
	2.8 +0.2	(2.9)	2.7 +0.2
19:37	2.8 —	50	2.7 —
	2.9 +0.1		2.7 —
4+30	2.9 —	6+70	2.6 +0.3

		60+00		11-13-47	
<del>DIST</del>	SOUND	DIST	SOUND	DIST	SOUND
6+80	2.6	+0.3	8+00	2.3	+0.6
11:40	2.6	—		2.3	—
7+00	2.6	—	(2.9)	2.3	—
(2.9)	2.6	—		2.2	+0.7
	2.6	—	9+00	2.2	—
	2.6	—		2.2	—
	2.6	—	14:43	2.3	+0.6
50	2.5	+0.4		2.3	—
	2.5	—		2.3	—
	2.5	—	50	2.3	—
	2.5	—		2.1	+0.8
	2.5	—		2.1	—
8+00	2.5	—		2.0	+0.9
	2.5	—		2.0	—
	2.4	+0.5	10+00	2.0	—
	2.4	—			
	2.4	—			
8+50	2.4	—			

		P.X STA - #7/W		BARRAGAN SWERS SPANLEY		11-14-47 (37)	
		0+00 = (Pt. 200' W/STA - 7+00 CHANNEL SECT 'D' 7/4) = STA - #7/W					
		SECT. AT 90° To B/L.					
DIST	SOUND	DIST	SOUND	DIST	SOUND	DIST	SOUND
				1450	6.1		+0.1
0+00	11.0	-4.8			5.7		+0.5
+10	11.2	-5.0			5.4		+0.8
03:15	11.8	-5.6			5.7		—
(6.2)	11.5	-5.3	(6.2)		5.3		+0.9
	11.0	-4.8	2+00		5.2		+1.0
50	10.8	-4.6			4.8		+1.4
	10.7	-4.5			4.8		—
	10.0	-3.8			4.6		+1.6
	9.3	-3.1			4.5		+1.7
	8.8	-2.6	50		4.2		+2.0
1+00	8.2	-2.0			4.2		—
	7.9	-1.7			4.0		+2.2
	7.1	-0.9			4.0		—
	6.8	-0.6			4.0		—
1+70	6.8	—	3+00		3.9		+2.3

PX		# 7/W		11-14-47	
DIST	SOUND	DIST	SOUND	DIST	SOUND
3+10	3.8	+2.4	4+90	4.1	+2.2
	3.7	+2.5	5+00	4.2	+2.1
	3.6	+2.6		4.3	+2.0
	3.5	+2.7	(6.3)	4.3	—
50	3.5	—		4.3	—
(6.2)	3.7	+2.5		4.1	+1.9
09:20	3.8	+2.5	50	4.1	—
(6.3)	3.9	+2.4		4.1	—
	3.9	—	09:23	4.1	—
7+00	3.5	+2.8		4.4	—
	3.7	+2.6		4.4	—
	3.7	—	6+00	4.4	—
	3.7	—		4.4	—
	3.7	—		4.4	—
50	3.8	+2.5		4.4	—
	4.0	+2.3		4.4	—
	4.0	—	50	4.4	—
7+80	4.0	—	6+60	4.3	+2.0

		# 7/W		11-14-47	
DIST	SOUND	DIST	SOUND	DIST	SOUND
6+70	4.2	+2.1	0+80	7.4	-1.1
	4.1	+2.2		7.3	-1.0
(6.3)	4.0	+2.3	1+00	7.2	-0.9
7+00	3.8	+2.5	(6.3)	7.1	-0.8
	3.4	+2.9		7.1	—
	3.1	+3.2		7.1	—
	2.5	+3.8		7.0	-0.7
	2.0	+4.3	50	7.0	—
09:25	50	1.5	+4.8	7.0	—
7+60	1.2	+5.1		6.9	-0.6
SOUND SOUTH <small>SAME 0700</small>					
0+10	10.8	-4.5		6.7	-0.4
	10.5	-4.2	2+00	6.4	-0.1
09:32	9.0	-2.7	09:35	6.1	+0.2
(6.3)	8.3	-2.0		6.0	+0.3
50	7.7	-1.4		5.9	+0.4
	7.4	-1.1		5.9	—
	7.1	—		5.8	+0.5
0+70	7.1	—	2+50	5.7	+0.6

(38)

#7/W

11-14-47

DIST SOUND

DIST SOUND

2+60 5.7 +0.6 4+40 5.8 +0.5

5.7 — 50 5.9 +0.4

(6.3) 5.7 — 4+60 5.9 —

5.7 — (6.3)

3+00 5.7 —

5.7 —

5.7 —

5.7 —

5.7 —

50 5.7 —

5.7 —

09:38 5.7 —

5.7 —

5.7 —

1+00 5.7 —

5.7 —

5.7 —

4+30 5.7 —

PX

#8/W

11-14-47

(39)

0+00 = (Pt. 800' W/STA. 1+00 CHANNEL SECT. "D" 8/4) = STA. #8/W

SECT. AT 90° TO 8/4.

DIST SOUND DIST SOUND

SOUND NORTH 1+50 12.0 -5.6

0+00 7.0 -0.6 12.0 —

+10 7.0 — (6.4) 12.5 -6.1

09:46 7.0 — 12.0 -5.6

(6.4) 7.0 — 11.0 -4.6

7.7 -1.0 2+00 10.8 -4.4

50 7.7 — 9.8 -3.4

7.7 -1.3 9.0 -2.6

8.0 -1.6 7.7 -1.3

9.8 -3.4 7.1 -0.7

10.5 -4.1 50 6.5 -0.1

1+00 10.8 -4.4 09:50 6.1 +0.3

11.2 -4.8 5.8 +0.6

12.0 -5.6 5.4 +1.0

12.0 — 5.2 +1.2

1+40 12.0 — 3+00 5.0 +1.4

PX		# 8/W		11-14-97		PX		# 8/W		11-14-97		(70)
DIST	SOUND	DIST	SOUND	DIST	SOUND	DIST	SOUND	DIST	SOUND	DIST	SOUND	
3+10	5.0 +1.4	4+90	4.3 +2.1	6+90	3.2 +3.2	1+20	6.1 +0.3					
	5.0 —	5+00	4.9 +2.0		3.7 +2.7		6.0 +0.4					
(6.4)	4.8 +1.6	(6.4)	4.9 —	(6.4)	2.0 +4.4	(6.4)	6.0 —					
	4.7 +1.7		4.5 +1.9	7+60	1.5 +4.9	50	5.9 +0.5					
50	4.5 +1.9		4.7 +1.7	09:53	0.5 +5.9		5.8 +0.6					
	4.4 +2.0		4.7 —	7+15	0.0 +6.4		5.8 —					
	4.4 —	50	4.7 —	SOUND SOUTH (SAME 0+00)			5.8 —					
	4.3 +2.1		4.7 —	0+10	2.0 -0.6		5.8 —					
	4.2 +2.2		4.7 —	09:57	2.0 —	2+00	5.8 —					
4+00	4.2 —		4.7 —	(6.4)	6.9 -0.5	10:00	5.8 —					
	4.2 —		4.6 +1.8		6.9 —		5.8 —					
	4.2 —	6+00	4.6 —	50	2.0 -0.6		5.8 —					
	4.2 —		4.6 —		2.0 —		5.8 —					
	4.2 —		4.5 +1.9		6.8 -0.4	50	5.8 —					
50	4.2 —		4.4 +2.0		6.8 —		5.8 —					
	4.2 —		4.1 +2.3		6.7 -0.3		5.8 —					
	4.2 —	50	4.0 +2.4	1+00	6.7 —		5.7 +0.7					
4+80	4.3 +2.1	6+60	3.7 +2.7	1+10	6.5 -0.1	2+90	5.7 —					

# 8/W

11-14-97

STA-44+00

11-14-97

(9)

~~DIST~~ SOUND

DIST SOUND

4400=STA-44+00 ON 250' &amp; OFFSET (CHANNEL SECT. "D" B/L)

3+00 6.0 +0.4 4+80 6.0 +0.4

SOUND NORTH AT 90° TO B/L.

10:03 5.9 +0.5 10:05 6.0 —~~DIST~~ SOUND ~~DIST~~ SOUND

5.8 +0.6 5+00 6.0 —

0+00 5.0 +1.3 1+60 5.2 +1.1

(6.4) 5.8 — (6.4) 6.0 —

+10 5.0 — 10:45 5.2 —

6.0 +0.4 6.0 —

10:43 5.1 +1.2 5.2 —

50 5.9 +0.5 5.9 +0.5 (6.3) 5.1 — (6.3) 5.2 —

6.0 +0.4 5.9 —

5.1 — 2+00 5.2 —

6.0 — 50 5.8 +0.6 50 5.1 — 5.2 —

6.0 — 5.9 +0.7 5.1 — 5.2 —

6.0 — 5+70 5.6 +0.8 5.1 — 5.1 +1.2

4+00 6.0 — 5.1 — 5.1 —

6.0 — 5.1 — 50 5.1 —

6.0 — 1+00 5.1 — 5.0 +1.3

6.0 — 5.1 — 5.0 —

6.0 — 5.1 — 5.0 —

50 6.0 — 5.1 — 5.0 —

6.0 — 5.2 +1.1 3+00 4.9 +1.4

1+70 6.1 +0.3 1+50 5.2 — 3+10 4.9 —



STA-44100      11-14-97

DIST	SOUND		DIST	SOUND	
3+20	1.9	+1.4	5+00	3.8	+2.5
<del>4.8</del>	<del>1.5</del>	<del>16:50</del>	3.8	—	—
(6.3)	1.7	+1.6	(6.3)	3.8	—
50	1.7	—	3.8	—	—
<u>12:48</u>	1.7	—	3.8	—	—
1.6	+1.7	50	3.6	+2.7	—
1.6	—		3.5	+2.8	—
1.6	—		3.1	+2.9	—
1+00	1.4	+1.9	3.1	—	—
1.4	—		3.5	+2.8	—
1.3	+2.0	6+00	3.5	—	—
1.2	+2.1		3.5	—	—
1.1	+2.2		3.2	+3.1	—
50	1.0	+2.3	3.1	+3.2	—
1.0	—		3.1	—	—
1.0	—	50	3.0	+3.3	—
3.8	+2.5		2.9	+3.4	—
4+90	3.9	+2.4	6+70	2.8	+3.5

STA-44100      11-14-97

DIST	SOUND		DIST	SOUND	
6+80	2.6	+3.7			
2.5	+3.8				
7+00	2.2	+4.1			
(6.3)	2.0	+4.3			
2.3	+4.0				
1.9	+4.4				
1.9	—				
50	2.1	+4.2			
1.7	+4.6				
1.7	—				
1.7	—				
<u>12:55</u>	1.6	+4.7			
8+00	1.6	—			

STA-95700

11-14-97

0+00 = STA-95700 ON 250' S. OFFSET (CHANNEL SECT. "D" R/L)

SOUND NORTH AT 90° TO R/L

DIST	SOUND	DIST	SOUND
0+00	4.9 +1.2	1+60	4.9 +1.2
+10	4.8 +1.3	<u>11:08</u>	4.9 —
<u>11:05</u>	4.7 +1.4		4.9 —
(6.1)	4.7 —	(6.1)	4.9 —
	4.7 —	2+00	4.9 —
50	4.7 —		4.9 —
	4.7 —		4.9 —
	4.7 —		4.9 —
	4.7 —		4.9 —
	4.7 —	50	4.9 —
1+00	4.7 —		4.8 +1.3
	4.7 —	<u>11:10</u>	4.8 —
	4.8 +1.3		4.7 +1.4
	4.8 —		4.5 +1.6
	4.9 +1.2	3+00	4.5 —
1+50	4.8 +1.3	3+10	4.5 —

STA-95700

11-14-97

(92)

DIST	SOUND	DIST	SOUND
3+20	4.4 +1.7	5+00	3.4 +2.6
(6.1)	4.2 +1.9	(6.0)	3.3 +2.7
	4.2 —	<u>11:15</u>	3.3 —
50	4.1 +2.0		3.1 +2.9
	4.0 +2.1		3.0 +3.0
(6.1)	4.0 —	50	3.0 —
(6.0)	4.0 +2.0		3.0 —
	4.0 —		2.6 +3.4
4+00	3.8 +2.2		2.4 +3.6
<u>11:13</u>	3.9 +2.1		2.0 +4.0
	3.7 +2.3	6+00	3.0 —
	3.5 +2.5		1.8 +4.2
	3.5 —		1.4 +4.6
50	3.5 —		1.5 +4.5
	3.5 —		1.5 —
	3.4 +2.6	<u>11:20</u>	1.5 —
	3.4 —	6+50	1.5 —
	3.4 —		
4+90	3.4 —		

STA-17+00

BORRAGAN  
SERRAN  
STANLEY 11-17-47

0+00=STA-17+00 ON 250' R. OFFSET, (CHANNEL SECT. "D" 3/4)

**SOUND NORTH AT 90° TO 3/4.**

DIST	SOUND	DIST	SOUND
0+00	3.4 +1.9	1+60	3.3 +2.0
+10	3.4 —		3.5 +1.8
09:45	3.4 —	(5.3)	3.5 —
(5.3)	3.3 +2.0		3.5 —
	3.4 +1.9	2+00	3.5 —
50	3.4 —		3.5 —
	3.4 —		3.5 —
	3.4 —		3.6 +1.7
	3.3 +2.0		3.5 +1.8
	3.3 —	50	3.5 —
1+00.	3.3 —		3.5 —
	3.3 —		3.4 +1.9
	3.3 —		3.4 —
	3.3 —		3.4 —
	3.3 —	3+00	3.3 +2.0
1+50	3.3 —	3+10	3.1 +2.2

STA-17+00

11-17-47

(99)

DIST SOUND DIST SOUND

**PX**

DIST	SOUND	DIST	SOUND
3+20	3.1 +2.2		
	3.1 —		
(5.3)	3.0 +2.3		
50	3.0 —		
	2.8		
	<del>3.8</del> +2.5		
	2.8		
	<del>3.8</del> —		
	2.8		
	<del>3.8</del> —		
	2.7		
	<del>2.7</del> +2.6		
4+00	2.2 +3.1		
	1.8 +3.5		
09:52			
4+20	1.0 +4.3		
	0.9 +4.4		
	0.5 +4.8		
4+50	0.2 +5.1		

STA-18+00

11-17-77

0+00=STA-78+00 ON 250' R. OFFSET. CHANNEL SECT "D" 1/4

~~PX~~ SOUND NORTH AT 90° TO R/L.

DIST		SOUND		DIST		SOUND	
0+00	3.1	+2.0	1+60	3.2	+2.2		
	10:00	3.1	—	10:03	3.2	—	
	3.1	—		3.3	+2.1		
(5.1)	3.1	—	(5.1)	3.3	—		
	3.1	—	2+00	3.3	—		
50	3.1	—		3.3	—		
	3.1	—		3.4	+2.0		
	3.4	—		3.4	—		
	3.4	—		3.4	—		
	3.3	+2.1	50	3.2	+2.2		
1+00	3.2	+2.2		3.3	+2.1		
	3.2	—		3.3	—		
	3.2	—		3.2	+2.2		
	3.2	—		3.1	+2.3		
	3.2	—	3+00	3.0	+2.4		
1+50	3.2	—	3+10	3.0	—		

STA-78+00

11-17-77

(75)

DIST SOUND DIST SOUND

3+20	3.0	+2.4		
	2.8	+2.6		
(5.1)	2.5	+2.9		
50	1.7	+3.7		
	1.4	+4.0		
	1.2	+4.2		
	0.8	+4.6		
10:07	0.6	+4.8		
STAINA 4+00	0.4	+5.0		

STA-49+00

11-17-47

~~0+00~~ STA-49+00 - ON 250' E OFFSET. (SECT. "D")  
3/4

~~SOUND NORTH AT 90° TO BH.~~

DIST	SOUND	DIST	SOUND
0+00	3.3 +2.1	1+60	3.0 +2.4
+10	3.2 +2.2	10:12	3.0 —
10:13	3.1 +2.3		3.0 —
(5.1)	3.0 +2.4	(5.1)	3.0 —
	3.2 +2.2	2+00	3.0 —
50	3.1 +2.3		3.0 —
	3.1 —		3.1 +2.3
	3.1 —		3.1 —
	3.1 —		3.1 —
	3.3 +2.1	50	3.2 +2.2
1+00	3.2 +2.2		3.2 —
	3.1 +2.3		3.1 +2.3
	3.0 +2.4		3.0 +2.4
	3.0 —		2.7 +2.7
	3.0 —	3+00	2.1 +3.3
1+50	3.0 —	3+10	1.8 +3.6

STA-49+00

11-17-47

(76)

DIST	SOUND	DIST	SOUND
3+20	1.2 +4.2	5+10	1.3 +4.2
	0.8 +4.6	5+20	1.2 +4.3
(5.4)	0.8		
11:20	0.8		
3+50	0.9 +4.6	(5.5)	
(5.5)	1.1 +4.4		
	3.0 +2.5		
	3.1 +2.4		
	3.2 +2.3		
4+00	3.2 —		
	3.1 +2.4		
	3.0 +2.5		
	2.1 +3.4		
	1.5 +4.0		
50	1.7 +4.1		
	1.4 —		
	1.4 —		
	1.3 +4.2		
	1.3 —		
5+00	1.3 —		

STA-50+00

11-19-47

+00 = STA-50+00 ON 250' OFFSET. (SECT. 2, 3/4)

SOUND NORTH AT 90° TO 3/4.

DIST SOUND DIST SOUND

0+00 3.3 +2.2 1460 3.0 +2.5

+10 3.2 +2.3 10:33 3.1 +2.4

10:30 3.1 +2.4 3.2 +2.3

(5.5) 3.1 — (5.5) 3.3 +2.2

3.1 — 2+00 3.3 —

50 3.1 — 3.3 —

2.8 +2.7 3.4 +2.1

2.7 +2.8 3.4 —

2.4 +3.1 3.4 —

2.4 — 50 3.4 —

1+00 2.5 +3.0 3.4 —

2.6 +2.9 3.4 —

2.8 +2.7 3.5 +2.0

2.8 — 3.5 —

2.9 +2.6 3+00 3.5 —

1+50 2.9 — 3+10 3.5 —

STA-50+00

11-19-47

(77)

DIST SOUND DIST SOUND

3+20 3.5 +2.0

3.4 +2.1

(5.5) 3.3 +2.2

50 3.2 +2.3

1.7 +3.8

10:30 1.6 +3.9

1.5 +4.0

1.5 —

STATE  
4+00 1.5 —



STA-61+00 11-17-A7

<del>DPSTX</del>	SOUND	DIST	SOUND
6+80	5.1 +0.5	8+60	7.8 +0.8
	5.0 +0.6		7.8 —
7+00	5.0 —		7.8 —
	5.0 —	(5.6)	7.8 —
(5.6)	5.1 +0.5	9+00	7.8 —
	5.0 +0.6		7.8 —
	5.0 —		7.8 —
50	5.0 —		7.8 —
	5.0 —		7.8 —
	5.0 —	50	7.8 —
	4.9 +0.7		7.8 —
	4.9 —		7.7 +0.9
8+00	4.9 —		7.7 —
	5.0 +0.6		7.7 —
	4.9 +0.7	11:01 10+00	7.7 —
	4.9 —		
	4.9 —		
8+50	7.8 +0.8	10+30	

STA-62+00 11-17-77 (79)

0+00=STA-62+00 ON 250' R. OFFSET. (SECT. D" B/L)

SOUND	DIST	SOUND	DIST
		SOUND NORTH AT 90° TO B/L	
		<del>DPSTX</del>	
0+00	5.2 +0.4	1+60	6.3 -0.7
+10	5.2 —		6.3 —
11:08	5.2 —	(5.6)	6.3 —
(5.6)	5.4 +0.2		6.3 —
	5.4 —	2+00	6.3 —
50	5.5 +0.1		6.3 —
	5.6 0.0		6.3 —
	5.7 -0.1		6.2 -0.6
	5.8 -0.2		6.2 —
	5.9 -0.3	50	6.2 —
1+00	6.0 -0.4		6.1 -0.5
11:12	6.1 -0.5		6.0 -0.4
	6.1 —		6.0 —
	6.2 -0.6		6.0 —
	6.2 —	3+00	5.9 -0.3
1+50	6.2 —	3+10	5.9 —



STA-62+00      11-17-47

DIST	SOUND	DIST	SOUND
<del>3+20</del>	5.8 -0.2	5+00	5.3 +0.3
	5.7 -0.1		5.3 —
(5.6)	5.6 0.0		5.2 +0.4
50	5.5 +0.1	(5.6)	5.2 —
(5.6)	5.5 —		5.2 —
	5.5 —	50	5.2 —
	5.5 —		5.1 +0.5
11:13	5.5 —		5.0 +0.6
7+00	5.5 —		5.0 —
	5.5 —		5.0 —
	5.4 +0.2	6+00	5.0 —
	5.4 —		5.0 —
	5.5 +0.1		5.1 +0.5
50	5.4 +0.2	11:15	5.1 —
	5.4 —		5.1 —
	5.4 —	50	5.1 —
	5.4 —		5.0 +0.6
7+90	5.3 +0.3	6+20	5.0 —

STA-62+00      11-17-47      (50)

DIST	SOUND	DIST	SOUND
6+80	5.0 +0.6	8+60	4.8 +0.8
	5.0 —	PX	4.7 +0.9
7+00	5.0 —		4.7 —
(5.6)	5.0 —	(5.6)	4.7 —
	4.9 +0.7	9+00	4.6 +1.0
	4.8 +0.8		4.6 —
	4.9 +0.7		4.6 —
50	4.9 —		4.7 +0.9
	4.9 —		4.7 —
	4.9 —	50	4.7 —
	4.9 —		4.7 —
	4.9 —		4.7 —
8+00	4.9 —		4.8 +0.8
	4.8 +0.8		4.8 —
	4.8 —	11:18	4.7 +0.9
	4.8 —	10+00	4.7 +0.9
	4.8 —		4.7 —
	4.8 —		4.7 —
8+50	4.8 —		4.7 —

STA-63+00

11-17-47

0+00 = STA-63+00 ON 250' OFFSET. (SECT. "D" 2/4)

~~SOUND~~ NORTH AT 90° TO 2/4.

DIST SOUND DIST SOUND

0+00 5.0 +0.4 1760 5.6 -0.2

+10 5.0 — 12:35 5.8 -0.4

12:33 5.0 — 5.8 —

(5.4) 5.2 +0.2 (5.4) 5.8 —

5.2 — 2+00 5.8 —

50 5.2 — 5.8 —

5.2 — 5.8 —

5.2 — 5.7 -0.3

5.2 — 5.7 —

5.2 — 50 5.7 —

1700 5.4 0.0 5.6 -0.2

5.4 — 5.5 -0.1

5.5 -0.1 5.5 —

5.5 — 5.4 0.0

5.6 -0.2 3+00 5.4 —

1750 5.6 — 3+10 5.4 —

STA-63+00

11-17-47

(5)

DIST SOUND DIST SOUND

3+20 5.4 0.0 ~~5+00~~ 4.9 +0.5

5.4 — 4.9 —

(5.4) 5.3 +0.1 (5.4) 4.9 —

50 5.3 — 4.9 —

5.3 — 4.8 +0.6

5.3 — 50 4.8 —

5.2 +0.2 4.7 +0.7

5.2 — 4.7 —

4+00 5.1 +0.3 4.7 —

5.0 +0.4 4.7 —

5.0 — 6+00 4.7 —

5.0 — 4.7 —

5.0 — 4.7 —

50 5.0 — 4.7 —

12:38 4.9 +0.5 4.7 —

4.9 — 50 4.6 +0.8

4.9 — 4.6 —

4+90 4.9 — 6+70 4.6 —

63+00 11-17-97

DIST	SOUND	DIST	SOUND
6+80	4.6 +0.8	8+60	4.3 +1.1
	4.6 —		4.3 —
7+00	4.6 —		4.3 —
(5.4)	4.5 +0.9	(5.4)	4.3 —
	4.5 —	9+00	4.3 —
	4.5 —		4.3 —
	4.5 —		4.3 —
50	4.4 +1.0		4.3 —
	4.4 —		4.2 +1.2
	4.4 —	50	4.1 +1.3
	4.4 —		4.0 +1.4
	4.4 —		4.0 —
8+00	4.4 —		4.0 —
	4.4 —		4.0 —
	4.3 +1.1	<sup>12:43</sup> 10+00	4.0 —
	4.2 +1.2		
	4.3 +1.1		
8+50	4.3 —		

STA - 64+00 11-17-97

0+00 = STA - 64+00 ON 250' OFFSET. (SECT. D' B/L.)

SOUND NORTH AT 90° TO B/L.

DIST	SOUND	DIST	SOUND
0+00	4.9 +0.4	1+60	5.4 -0.1
+10	5.0 +0.3		5.4 —
<sup>12:50</sup>	5.0 —		5.3 0.0
(5.3)	5.0 —	(5.3)	5.2 +0.1
	5.0 —	2+00	5.3 0.0
50	5.0 —		5.3 —
	5.1 +0.2		5.3 —
	5.1 —		5.3 —
	5.1 —		5.3 —
	5.2 +0.1	50	5.4 -0.1
1+00	5.4 -0.1		5.4 —
	5.4 —		5.4 —
	5.3 0.0		5.4 —
	5.3 —		5.3 0.0
	5.3 —	3+00	5.3 —
1+50	5.2 +0.1	3+10	5.3 —

STA-64+00  
11-17-47

<del>DIST</del>	SOUND		<del>DIST</del>	SOUND	
3+20	5.1	+0.2	5+00	4.5	+0.8
	5.0	+0.3		4.5	—
(5.3)	5.0	—	(5.3)	4.5	—
50	5.0	—		4.5	—
	5.0	—		4.5	—
<u>12:53</u>	5.0	—	50	4.5	—
	4.9	+0.4		4.5	—
	4.8	+0.5		4.5	—
4+00	4.8	—		4.4	+0.9
	4.8	—		4.5	+0.8
	4.8	—	6+00	4.5	—
	4.8	—		4.5	—
	4.7	+0.6		4.5	—
50	4.6	+0.7		4.4	+0.9
	4.6	—		4.4	—
	4.5	+0.8	50	4.3	+1.0
	4.5	—		4.1	+1.2
4+90	4.5	—	6+70	4.1	—

STA-64+00  
11-17-47

<del>DIST</del>	SOUND		<del>DIST</del>	SOUND	
6+80	4.1	+1.2	8+60	3.9	+1.4
<u>12:55</u>	4.1	—		3.9	—
7+00	4.1	—	(5.3)	3.9	—
	4.1	—		3.9	—
(5.3)	4.1	—	9+00	3.9	—
	4.1	—		3.9	—
	4.1	—		3.9	—
50	4.1	—		3.9	—
	4.1	—		3.9	—
	4.1	—		3.9	—
	4.1	—	50	3.8	+1.5
	4.0	+1.3		3.7	+1.6
	4.0	—		3.6	+1.7
8+00	4.1	+1.2		3.5	+1.8
	4.0	+1.3	<u>12:58</u>	3.5	—
	4.0	—	10+00	3.6	+1.7
	4.0	—			
	3.9	+1.4			
8+50	3.9	—			

STA-65+00						STA-65+00					
On 250' E OFFSET. (SECT. "D" R/L.)											
SOUND NORTH AT 90° To R/L.											
DIST	SOUND		DIST	SOUND		DIST	SOUND		DIST	SOUND	
			3+20	4.7	+0.5	5+00	3.8	+1.4			
				4.5	+0.7	13/12	3.8	—			
0+00	4.9	+0.3	1+60	5.1	+0.1	(5.2)	4.5	—	(5.2)	3.8	—
	4.9	—		5.1	—	50	4.5	—		3.8	—
13:06	4.9	—	(5.2)	5.0	+0.2		4.4	+0.8		3.8	—
(5.2)	4.9	—		5.0	—		4.4	—	50	3.8	—
	5.0	+0.2	2+00	5.0	—		4.3	+0.9		3.8	—
50	5.0	—		5.0	—		4.3	—		3.8	—
	5.0	—		5.0	—	4+00	4.2	+1.0		3.8	—
	5.0	—		5.0	—		4.2	—		3.9	+1.3
	4.9	+0.3		4.9	+0.3		4.2	—	6+00	3.9	—
	4.9	—	50	4.9	—		4.2	—		3.9	—
1+00	4.9	—		4.9	—		4.0	+1.2		3.9	—
	4.9	—		4.9	—	50	4.0	—		3.9	—
	5.0	+0.2		4.9	—		3.9	+1.3		3.9	—
	5.0	—		4.9	—		3.9	—	50	3.9	—
	5.0	—	3+00	4.9	—		3.9	—		3.8	+1.4
1+50	5.1	+0.1	3+10	4.8	+0.4	4+90	3.9	—	6+70	3.8	—

STA-65+00 11-17-97

DIST	SOUND		DIST	SOUND	
6+80	3.8 +1.4		8+60	3.5 +1.6	
(5.2)	3.8 —		13:15	3.5 —	
7+00	3.7 +1.5		(5.1)	3.4 +1.7	
	3.8 +1.4			3.3 +1.8	
	3.8 —		9+00	3.1 +2.0	
	3.8 —			3.0 +2.1	
	3.8 —			3.0 —	
50	3.8 —			3.0 —	
	3.8 —			3.0 —	
	3.8 —		50	3.0 —	
	3.8 —			3.0 —	
	3.8 —			3.0 —	
8+00	3.8 —			3.0 —	
	3.8 —			3.0 —	
(5.2)	3.7 +1.5		10+00	3.1 +2.0	
(5.1)	3.6 +1.5				
	3.5 +1.6				
8+50	3.5 —				

STA-66+00 11-17-97

0+00=STA-66+00 ON 250' E OFFSET. (SECT. "D" B/L.)

SOUND NORTH AT 90° TO B/L.

DIST	SOUND		DIST	SOUND	
0+00	4.7 +0.3		1+60	4.8 +0.2	
+10	4.7 —			4.8 —	
13:15	4.7 —			4.7 +0.3	
(5.0)	4.8 +0.2		(5.0)	4.6 +0.4	
	4.8 —		2+00	4.6 —	
50	4.8 —			4.6 —	
	4.8 —			4.6 —	
	4.8 —			4.6 —	
	4.8 —			4.5 +0.5	
	4.8 —		50	4.5 —	
1+00	4.8 —			4.5 —	
	4.8 —			4.4 +0.6	
	4.8 —			4.4 —	
	4.8 —			4.3 +0.7	
	4.8 —		3+00	4.2 +0.8	
1+50	4.8 —		3+10	4.1 +0.9	

11-17-17						11-17-17					
STA-66+00			STA-66+00			STA-66+00			STA-66+00		
DIST	SOUND		DIST	SOUND		DIST	SOUND		DIST	SOUND	
3+20	9.0	+1.0	5+00	3.0	+2.0	6+80	3.0	+2.0	8+60	3.0	+2.0
	9.0	—		3.0	—		3.2	+1.8		3.0	—
(5.0)	3.7	+1.3	(5.0)	3.0	—	7+00	3.1	+1.9		3.0	—
50	3.6	+1.4		3.0	—	(5.0)	3.1	—	(5.0)	2.9	+2.1
	3.6	—		3.0	—		3.1	—	9+00	2.8	+2.2
	3.5	+1.5	50	3.0	—	13:23	3.1	—		2.7	+2.3
	3.3	+1.7		3.0	—		3.1	—		2.7	—
	3.3	—		3.0	—	50	3.1	—		2.7	—
9+00	3.1	+1.9		3.0	—		3.1	—		2.6	+2.4
	3.1	—		3.0	—		3.1	—	50	2.6	—
	3.1	—	6+00	3.0	—		3.1	—		2.6	—
	3.2	+1.8		3.0	—		3.1	—		2.6	—
	3.2	—		3.0	—	8+00	3.1	—		2.6	—
50	3.2	—		3.0	—		3.0	+2.0	13:25	2.6	—
13:20	3.2	—		3.0	—		3.0	—	10+00	2.5	+2.5
	3.1	+1.9	50	3.0	—		3.0	—			
	3.1	—		3.0	—		3.0	—			
9+50	3.0	+2.0	6+70	3.0	—	8+50	3.0	—			

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STA-67+00 11-17-47

0+00=STA-67+00 ON 250' E OFFSET. (RECT. 2" B/L.)

SOUND NORTH AT 90° TO R/L.

DIST	SOUND	DIST	SOUND
0+00	4.6 +0.2	1+60	4.3 +0.5
1+00	4.5 +0.3		4.1 +0.7
13:19	4.5		4.2 +0.6
(4.8)	4.5	(4.8)	4.1 +0.7
	4.6 +0.2	2+00	4.0 +0.8
50	4.6		4.0
	4.6		4.0
	4.6		4.0
	4.6		3.9 +0.9
	4.6	50	3.9
1+00	4.5 +0.3		3.8 +1.0
	4.4 +0.4		3.6 +1.2
	4.4	13:52	3.5 +1.3
	4.4		3.3 +1.5
	4.4	3+00	3.3
1+50	4.3 +0.5	3+10	3.3

STA-67+00 11-17-47 (52)

DIST	SOUND	DIST	SOUND
3+20	3.0 +1.8	5+00	2.5 +2.3
	3.0		2.5
(4.8)	3.0	(4.8)	2.5
50	2.9 +1.9		2.5
	2.9	13:55	2.4 +2.4
	2.8 +2.0	50	2.4
	2.8		2.5 +2.3
	2.8		2.4 +2.4
4+00	2.7 +2.1		2.4
	2.7		2.4
	2.7		2.4
	2.7	6+00	2.4
	2.7		2.5 +2.3
	2.7		2.5
50	2.7		2.5
	2.6 +2.2		2.5
	2.6	50	2.5
	2.6		2.5
4+30	2.5 +2.3	6+70	2.5



STA-67+00		11-17-47	
DIST	SOUND	DIST	SOUND
6+80	2.5 +2.3	8+60	2.4 +2.4
	2.5 —	13:58	2.4 —
7+00	2.5 —		2.4 —
(4.8)	2.5 —	(4.8)	2.4 —
	2.5 —	9+00	2.4 —
	2.5 —		2.4 —
	2.6 +2.2		2.4 —
50	2.6 —		2.3 +2.5
	2.4 +2.4		2.2 +2.6
	2.5 +2.3	50	2.2 —
	2.6 +2.2		2.1 +2.7
	2.6 —		2.1 —
8+00	2.6 —		2.1 —
	3.0 +1.8		2.1 —
	2.7 +2.1	10+00	2.0 +2.8
	2.5 +2.3		
	2.5 —		
8+50	2.5 —		

STA-68+00		11-17-47	
0+00=STA-68+00 ON 250' OFFSET. (SECT. "D" 3/4).			
SOUND NORTH AT 90° TO B/L.			
DIST	SOUND	DIST	SOUND
0+00	4.2 +0.4	1+60	3.7 +0.9
+10	4.2 —		3.5 +1.1
14:07	4.2 —		3.5 —
(4.6)	4.2 —	(4.6)	3.4 +1.2
	4.1 +0.5	2+00	3.2 +1.4
50	4.1 —		3.1 +1.5
	4.1 —		3.0 +1.6
	4.0 +0.6	14:20	3.0 —
	4.0 —		3.0 —
	4.0 —	50	3.0 —
1+00	4.0 —		3.0 —
	4.0 —		2.9 +1.7
	4.0 —		2.9 —
	4.0 —		2.8 +1.8
	4.0 —	3+00	2.8 —
1+50	3.9 +0.7	3+10	2.7 +1.9

11-17-47

STA-68+00		STA-68+00		11-17-47	
DIST	SOUND	DIST	SOUND	DIST	SOUND
3+20	2.7	+1.9	5+00	2.0	+2.6
	2.7	—		2.0	—
(4.6)	2.5	+2.1	(4.6)	2.0	—
50	2.5	—		2.0	—
	2.5	—		2.0	—
	2.5	—	50	2.0	—
	2.4	+2.2		2.0	—
	2.4	—		2.0	—
4+00	2.3	+2.3		2.0	—
	2.2	+2.4		1.9	+2.7
	2.1	+2.5	6+00	1.9	—
	2.1	—		1.9	—
	2.1	—	<u>14.13</u>	1.9	—
50	2.1	—		1.9	—
	2.1	—		1.9	—
	2.0	+2.6	50	1.9	—
	2.0	—		1.9	—
4+90	2.0	—	6+70	1.9	—

11-17-47

STA-68+00		STA-68+00		11-17-47	
DIST	SOUND	DIST	SOUND	DIST	SOUND
6+80	1.9	+2.7	8+60	2.0	+2.5
(4.6)	1.9	—	(4.5)	2.0	—
7+00	1.9	—		2.0	—
	1.9	—		2.0	—
	1.9	—	9+00	2.0	—
	1.9	—		2.0	—
(4.6)	1.9	—		1.9	+2.6
(4.5) <sup>50</sup>	2.0	+2.5		1.9	—
	2.0	—		1.8	+2.7
	2.0	—	50	1.8	—
	2.0	—		1.7	+2.8
	2.0	—		1.7	—
8+00	2.0	—		1.7	—
	2.0	—		1.7	—
	2.0	—	10+00	1.7	—
	2.1	+2.4	<u>11.19</u>		
	2.0	+2.5			
8+50	2.0	—			

11-18-97

STA-69+00

0+00 = STA-69+00 ON 250' OFFSET. (SECT. D" 2/4.)

SOUND NORTH AT 90° TO B/L.

DIST	SOUND		DIST	SOUND	
0+00	4.0	+1.1	1+60	3.7	+1.4
+10	4.0	—		3.6	+1.5
10:26	4.0	—	(5.1)	3.5	+1.6
(5.1)	4.0	—	10:28	3.5	—
	4.0	—	2+00	3.9	+1.7
50	4.0	—		3.4	—
	4.0	—		3.3	+1.8
	4.0	—		3.1	+2.0
	4.0	—		3.1	—
	4.0	—	50	3.0	+2.1
1+00	3.9	+1.2		2.9	+2.2
	3.9	—		2.9	—
	3.9	—		2.8	+2.3
	3.9	—		2.8	—
	3.9	—	3+00	2.8	—
1+50	3.7	+1.4	3+10	2.7	+2.4

11-18-97

STA-69+00

(60)

DIST	SOUND		DIST	SOUND	
3+20	2.6	+2.5	5+00	2.1	+3.0
	2.5	+2.6		2.1	—
(5.1)	2.6	+2.5	(5.1)	2.0	+3.1
50	2.7	+2.4		2.0	—
	2.7	—		2.0	—
	2.7	—	50	2.0	—
10:30	2.7	—		2.0	—
	2.6	+2.5	10:33	2.0	—
4+00	2.6	—		2.0	—
	2.5	+2.6		2.0	—
	2.5	—	6+00	2.0	—
	2.4	+2.7		2.0	—
	2.2	+2.9		2.0	—
50	2.0	+3.1		2.0	—
	2.0	—		2.0	—
	2.2	+2.9	50	2.0	—
	2.2	—		2.0	—
4+90	2.1	+3.0	6+70	2.0	—

69+00		11-18-47	
DIST	SOUND	DIST	SOUND
6+80	2.1 +3.0	8+60	2.3 +2.8
	2.0 +3.1		2.3 —
7+00	2.0 —	(5.1)	2.3 —
(5.1)	2.1 +3.0		2.2 +2.9
	2.0 +3.1	9+00	2.2 —
	2.1 +3.0		2.2 —
10:35	2.1 —	10:32	2.2 —
50	2.1 —		
	2.1 —		
	2.1 —		
	2.1 —		
	2.1 —		
	2.1 —		
8+00	2.1 —		
	2.2 +2.9		
	2.2 —		
	2.1 +3.0		
	2.2 +2.9		
8+50	2.2 —		

STA-70+00		11-18-47	
DIST	SOUND	DIST	SOUND
+00=STA-70+00 ON 250' OFFSET. (SECT. "D" B/L.)			
SOUND NORTH AT 90° TO B/L.			
DIST	SOUND	DIST	SOUND
0+00	3.9 +1.1	1+60	3.2 +1.8
1+00	3.9 —		3.1 +1.9
10:05	3.8 +1.2		3.0 +2.0
(5.0)	3.8 —	(5.0)	3.0 —
	3.8 —	2+00	3.0 —
50	3.7 +1.3		2.9 +2.1
	3.7 —		2.9 —
	3.7 —		2.8 +2.2
	4.0 +1.0		2.7 +2.3
	4.0 —	50	2.7 —
1+00	3.8 +1.2		2.6 +2.4
	3.5 +1.5		2.5 +2.5
	3.5 —		2.5 —
	3.3 +1.7		2.4 +2.6
	3.3 —	3+00	2.4 —
1+50	3.2 +1.8	3+10	2.4 —

STA-70+00      11-18-47

DIST	SOUND	DIST	SOUND
3+20	2.9 +2.6	5+00	1.6 +3.4
	2.3 +2.7		1.7 +3.3
(5.0)	—	(5.0)	—
50	2.3 —		1.6 +3.4
	2.3 —		1.6 —
	2.2 +2.8	50	1.6 —
	2.2 —		1.6 —
	2.2 —		1.5 +3.5
4+00	2.1 +2.9		1.7 +3.3
	2.0 +3.0		1.8 +3.2
<u>10:10</u>	1.7 +3.3	6+00	1.7 +3.3
	1.8 +3.2		1.7 —
	1.7 +3.3		2.0 +3.0
50	1.5 +3.5		1.8 +3.2
	1.7 +3.3		1.8 —
	1.5 +3.5	50	1.6 +3.4
	1.8 +3.2		1.4 +3.6
4+90	1.7 +3.3	6+70	1.4 —

STA-70+00      11-18-47      (62)

DIST	SOUND	DIST	SOUND
6+80	1.5 +3.5	8+60	1.7 +3.3
(5.0)	1.5 —	(5.0)	1.5 +3.5
7+00	1.6 +3.4	8+80	1.1 +3.9
	1.5 +3.5	10:15	
	1.5 —		
	1.6 +3.4		
	1.6 —		
50	1.5 +3.5		
	1.5 —		
	1.3 +3.7		
	1.3 —		
	1.3 —		
8+00	1.1 +3.9		
	1.8 +3.2		
	1.8 —		
	1.7 +3.3		
	1.7 —		
8+50	1.8 +3.2		

STA-W-105+00

11-18-47

W-105+00

11-18-47

Indexed (63)

0+00 = Pt. 122.3' E / STA-70+00 Along Sect. "D" B/L. N-79° 40' E

DIST

SOUND

DIST

SOUND

SOUND NORTH AT 79° 40' To B/L.

3+20

2.5 +2.7

5+00

1.3 +3.9

DIST SOUND

DIST SOUND

2.4 +2.8

1.3

0+00 3.5 +1.7 1+60 3.0 +2.2 (5.2) 2.4 — (5.2) 1.2 +4.0

+10 3.4 +1.8 10:58 3.0 — 50 2.3 +2.9 1.1 +4.1

10:55 3.4 — 3.0 — 2.3 — 1.0 +4.2

(5.2) 3.4 — (5.2) 3.0 — 2.2 +3.0 50 1.0 —

3.5 +1.7 2+00 3.0 — 2.2 — 1.0 —

50 3.5 — 2.9 +2.3 2.2 — 1.0 —

3.4 +1.8 2+00 2.9 — 4+00 1.8 +3.4 1.0 —

3.4 — 2.9 — 4:01 1.7 +3.5 1.0 —

3.4 — 2.9 — 1.7 — 6+00 1.0 —

3.4 — 50 2.9 — 1.7 — 11:03 1.0 —

1+00 3.3 +1.9 2.9 — 1.8 +3.4 1.1 +4.1

3.3 — 2.8 +2.4 50 1.8 — 1.2 +4.0

3.3 — 2.8 — 1.8 — 1.1 +4.1

3.2 +2.0 2.7 +2.5 1.7 +3.5 50 1.1 —

3.2 — 3+00 2.7 — 1.4 +3.8 1.1 —

1+50 3.1 +2.1 3+10 2.7 — 4+30 1.3 +3.9 6+70 1.0 +4.2

W-105+00		W-105+00		11-18-47	
DIST	SOUND	DIST	SOUND	DIST	SOUND
6+80	1.0	+4.2	8+60	0.9	+4.3
(5.2)	1.0	—	(5.2)	0.9	—
7+00	0.9	+4.3		0.9	—
	0.9	—		0.9	—
	0.9	—	9+00	0.9	—
	0.9	—		0.8	+4.4
	0.9	—		0.8	—
50	0.9	—		0.8	—
	0.9	—		0.8	—
11:05	0.9	—	50	0.8	—
	0.9	—		0.8	—
	0.9	—	11:08	9+70	0.7
	0.9	—		+4.5	
8+00	0.9	—			
	0.9	—			
	0.9	—	10+00		
	0.9	—			
	0.8	+4.4			
8+50	0.8	—	10+40		

STA-104+00		STA-104+00		11-18-47	
0+00 = PT. 226' E / STA-70+00 ALONG SECT "D" B/L. N. 79° 40' E					
SOUND NORTH AT 79° 40' TO B/L.					
DIST	SOUND	DIST	SOUND	DIST	SOUND
0+00	3.5	+1.8	1+60	3.0	+2.3
1+0	3.5	—		3.0	—
11:23	3.4	+1.9		2.9	+2.4
(5.3)	3.4	—	(5.3)	2.9	—
	2.3	+2.0	2+00	2.8	+2.5
50	3.3	—		2.8	—
	3.3	—		2.8	—
	3.2	+2.1		2.7	+2.6
	3.0	+2.3		2.7	—
	3.0	—	50	2.7	—
1+00	3.1	+2.2		2.7	—
	3.0	+2.3		2.7	—
11:25	3.0	—		2.7	—
	3.0	—	11:28	2.6	+2.7
	3.0	—	3+00	2.5	+2.8
	3.0	—	3+10	2.5	—
1+50	3.0	—			

W-104+00

11-18-47

68

DIST	SOUND	DIST	SOUND
3+20	2.5 +2.8	5+00	1.6 +3.7
	2.9 +2.9		1.3 +4.0
(5.3)	2.1 —	(5.3)	1.3 —
50	2.3 +3.0		1.0 +4.3
	2.1 +3.2		0.9 +4.4
	2.0 +3.3	50	0.9 —
	2.1 +3.2		0.9 —
	2.1 —		0.9 —
4+00	1.8 +3.5		0.9 —
	1.7 +3.6		0.9 —
	1.6 +3.7	6+00	0.9 —
	1.5 +3.8	11:33	
11:20	1.6 +3.7		
50	1.6 —		
	1.6 —		
	1.7 +3.6		
	1.8 +3.5		
4+90	1.6 +3.7		





CHECK

2-27-48

STA-46+00

2-27-48

(67)

SOUNDINGS OF STA-46+00 SECT "D" B/L

DIST SOUND DIST SOUND

Indexed

STA-46+00

3+00 19.0 -14.7 4+80 20.2 -15.8

0+00=STA-46+00 SECT "D" B/L; SOUND SOUTH AT 90° TO B/L

20.5 -16.2 20.2

DIST SOUND DIST SOUND

(4.3) 21.0 -16.7 5+00 20.2

6+00 17.3 -13.1 1+50 19.4 -10.2

10:08 20.5 -16.2 (4.4) 20.0 -15.6

+10 17.4 -13.2 19.7 -10.5

20.4 -16.1 19.6 -15.2

10:00 17.5 -13.3 (4.2) 19.8 -10.6

50 20.5 -16.2 19.1 -14.7

(4.2) 17.1 -12.9 19.9 -10.7

20.5 — 18.8 -14.4

17.1 — 19.9 —

20.6 -16.3 50 18.9 -14.5

50 17.0 -12.8 2+00 19.9 —

21.0 -16.7 10:13 19.2 -14.8

17.0 — (4.2) 15.1 -10.9

21.0 — 19.6 -15.2

17.2 -13.0 10:05 15.1 —

4+00 21.9 -17.1 20.2 -15.8

17.0 -12.8 (4.3) 15.1 -10.8

(4.3) 21.7 -17.4 20.1 -16.0

17.0 — 15.0 -10.7

(4.4) 21.4 -17.0 6+00 20.6 -16.2

1+00 16.6 -12.4 50 19.9 -10.6

10:10 20.8 -16.4 20.8 -16.4

17.0 -12.8 19.7 -10.4

20.5 -16.1 20.6 -16.2

17.8 -13.6 19.8 -10.5

50 20.3 -15.9 21.3 -16.9

17.5 -13.3 15.2 -10.9

20.1 -15.7 21.3 —

1+40 17.0 -12.8 2+90 17.8 -13.5

4+70 20.1 — 6+50 20.7 -16.3

STA-46+00

DIST	SOUND		DIST	SOUND	
<del>6+60</del>	<del>20.1</del>	<del>-15.7</del>	8+90	21.7	-17.3
	20.3	-15.9	50	21.7	—
(4.4)	20.9	-16.5	(4.4)	20.1	-15.7
	21.0	-16.6		19.4	-15.0
7+00	21.5	-17.1		13.0	-8.6
	22.2	-17.8		10.7	-5.9
	22.5	-18.1	9+00	5.6	-1.2
	22.5	—	10:23		
	23.1	-18.7			
50	23.6	-19.2			
10:18	23.6	—			
	23.5	-19.1			
	23.8	-19.4			
	23.7	-19.3			
8+00	23.6	-19.2			
	23.3	-18.9			
	23.0	-18.6			
8+30	22.0	-17.6			

CHECK

2-27-48

(68)

STA-36+00

SOUNDINGS OF STA-36+00 SECT "C" BORROW AREA

DIST	SOUND		DIST	SOUND	
0+00	3.4	+1.4	1+70	3.6	+1.2
+10	3.4	—		3.6	—
10:95	3.4	—	(4.8)	3.6	—
(4.8)	3.4	—	2+00	3.7	+1.1
	3.4	—		3.7	—
50	3.5	+1.3	10:98	3.8	+1.0
	3.5	—		3.9	+0.9
	3.5	—		3.9	—
	3.5	—	50	3.9	—
	3.5	—		3.8	+1.0
14:00	3.5	—		3.8	—
	3.5	—		3.8	—
	3.5	—		3.8	—
	3.5	—	3+00	3.7	+1.1
	3.5	—		3.7	—
50	3.5	—		3.0	+0.8
1+60	3.5	—	3+30	3.5	+1.3

STA - 36+00      2-27-18

DIST	<del>SOUND</del>	DIST	SOUND	DIST	SOUND
3+10	3.4	+1.4	5+20 8.0	-3.2	
50	3.4	-	11.2	6.4	
	3.4	-	<del>7.2</del>		
	3.4	-	(4.8) 12.0	-7.2	
(4.8)	3.4	-	50 12.0	-	
	3.4	-	<u>105.3</u> 11.5	-6.7	
	5.8	-1.0	11.3	-6.5	
4+00	11.4	-6.6	13.1	-8.3	
	11.3	-6.5	12.0	-12.2	
	10.3	-5.5	6+00 16.9	-12.1	
	10.5	-5.7	16.8	-12.0	
	10.0	-5.2	16.5	-11.7	
50	10.0	-	17.5	-12.7	
	11.9	-7.1	19.6	-14.8	
	11.0	-6.2	50 20.0	-15.2	
	9.5	-4.7	(4.8) 20.2	-15.4	
	11.3	-6.5	<u>105.5</u> 20.1	-15.3	
5+00	10.2	-5.4	(4.9) 19.9	-15.0	
5+10	7.7	-2.9	6+30 20.0	-15.2	

STA - 36+00      2-27-18      (69)

DIST.	SOUND	DIST	SOUND	DIST	SOUND
7+00	20.0	-15.1	8+00	13.2	8.3
	20.0	-15.1	(4.9)	13.2	-
(4.9)	20.0	-	9+00	13.1	-8.2
	19.9	15.0	<u>1100</u>	13.2	8.3
	19.8	14.9		13.2	-
50	19.9	15.0		13.2	-
	19.8	14.9		13.4	-8.5
	19.9	15.0	50	13.4	-
	19.5	14.6		13.2	-8.3
	18.2	13.9		13.1	-8.2
8+00	17.9	13.0		13.1	-
	18.0	13.1		13.1	-
	15.7	10.8	10+00	13.0	-8.1
	<del>17.2</del>		10	12.6	-7.7
	13.0	8.1	20	7.0	-2.1
	13.1	8.2	30	5.4	-0.5
50	13.2	8.3	40	4.7	+0.2
	13.2	-	<u>1107</u> 50	5.0	-0.1
8+70	13.2	-	10+60	5.0	-0.1

FINAL

2-27-48

SOUNDINGS OF SOUTH ISLAND PATERA GROUP

PROJ - #3-1

STA - 111400

0400 = PT. 970' W/STA - 111400 PATERA B/K; SOUND WEST

DIST	SOUND	DIST	SOUND
0+10	1.2 +3.3	1+50	1.3 +3.1
420	1.2 —	1.3	—
12:53	1.2 —	(4.4)	1.5 +2.9
(4.5)	1.2 —	1.5	—
50	1.3 +3.2	1.5	—
	1.3 —	2+00	1.5 —
	1.3 —		
	1.3 —		
	1.3 —		
1+00	1.3 —		
	1.2 +3.3		
	1.3 +3.2		
	1.3 —		
1+40	1.3 —		

2-27-48

(70)

STA - 110400

0400 = PT. 520' W/STA - 110400 PATERA B/K; SOUND WEST

DIST	SOUND	DIST	SOUND
0+10	1.0 +3.4	1+70	2.0 +2.4
12:58	1.0 —	(4.4)	1.5 +2.9
	1.0 —	1+90	1.5 —
(4.4)	1.0 —	2+00	1.5 —
50	1.0 —	13:03	
	1.0 —		
	1.0 —		
	1.0 —		
1+00	1.0 —		
	1.0 —		
	1.1 +3.3		
	1.1 —		
50	1.1 —		
1+60	1.1 +3.0		

2-27-78

STA-112+00

0+00 = PT 516' W/STA- PATERA B/LI SOUND WEST

DIST	SOUND		DIST	SOUND	
0+10	1.1	+3.3	1+70	1.6	+2.8
+20	1.1	—		1.5	+2.9
13:07	1.1	—	(4.4)	1.7	+2.7
(4.4)	1.2	+3.2	2+00	1.8	+2.6
50	1.2	—	13:10		
	1.2	—			
	1.2	—			
	1.3	+3.1			
	1.3	—			
1+00	1.3	—			
	1.4	+3.0			
	1.4	—			
	1.5	+2.9			
	1.5	—			
50	1.5	—			
1+60	1.6	+2.8			

2-27-78

(71)

STA-113+00

0+00 = PT 570' W/STA-113+00 PATERA B/LI SOUND WEST

DIST	SOUND		DIST	SOUND	
0+10	1.0	+3.3	1+70	1.9	+2.4
+20	1.0	—		1.9	—
13:16	1.1	+3.2	(4.3)	1.9	—
(4.3)	1.2	+3.1	2+00	2.0	+2.3
50	1.3	+3.0	13:20		
	1.4	+2.9			
	1.4	—			
	1.5	+2.8			
	1.5	—			
1+00	1.5	—			
	1.5	—			
	1.5	—			
	1.6	+2.7			
	1.7	+2.6			
50	1.7	—			
1+60	1.8	+2.5			

2-27-98

72

STA- 119700

0400 = Pt. 580' W/STA-119700 PATERN B/L: SOUND WEST.

DIST	SOUND		DIST	SOUND
0410	1.4	+2.8	1470	2.3 -3.1
	1.4	—		
(4.2)	1.4	—	(4.2)	
	1.4	—		
50	1.4	—		
<u>1325</u>	1.5	+2.7		
	1.7	+2.5		
	1.7	—		
	1.8	+2.4		
1400	1.8	—		
	1.9	+2.3		
	2.0	+2.2		
	2.2	+2.0		
	2.9	+1.3		
50	3.8	+0.4		
1460	6.0	-1.8		

BARRAGAN  
SHERRY  
STANLEY

3-12-78  
WARM  
CLEAR  
CALM

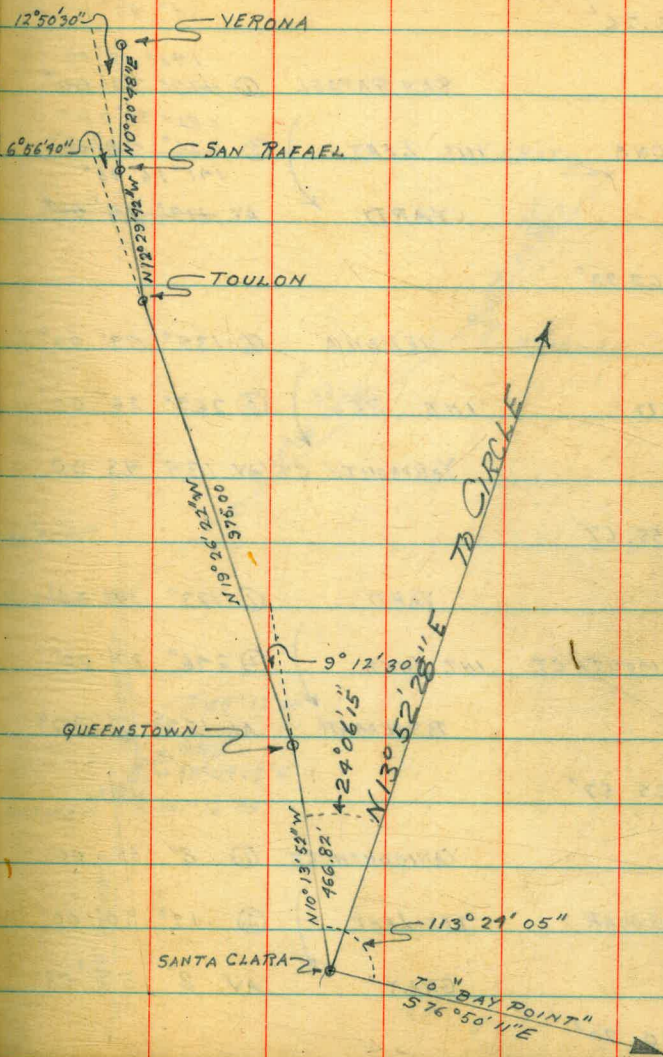
(23)

*Indexed*

BASELINE TRAVERSE OF WEST SHORELINE

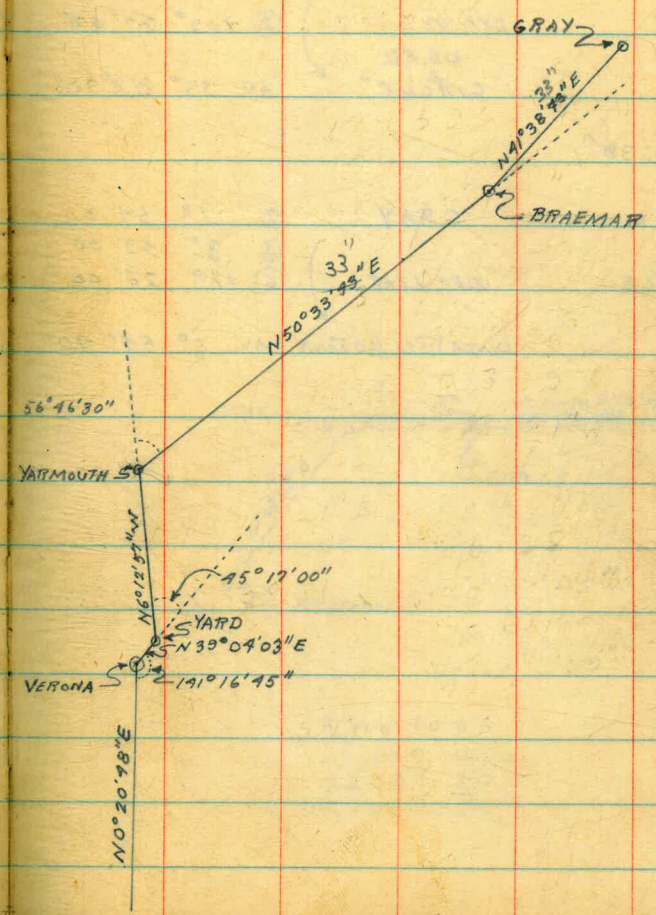
MISSION BAY

STATION	OBJECT	ANGLE
	U.S.E.D. "BAY POINT"	① 113° 24' 00"
SANTA CLARA	INT. LEFT	② 113° 24' 00"
	QUEENSTON	③ 680° 24' 30"
		AV. 113° 24' 05"
466.82'		
	SANTA CLARA	④ 9° 12' 30"
QUEENSTON	DEF. LEFT	⑤ 18° 25' 00"
	TOULON	AV. 9° 12' 30"
975.00'		
	QUEENSTON	⑥ 6° 57' 00"
TOULON	DEF. RT.	⑦ 13° 53' 20"
	SAN RAFAEL	AV. 6° 56' 40"
276.91'		
	TOULON	⑧ 12° 50' 00"
SAN RAFAEL	DEF. RT.	⑨ 25° 41' 00"
	VERONA	AV. 12° 50' 30"
262.26'		

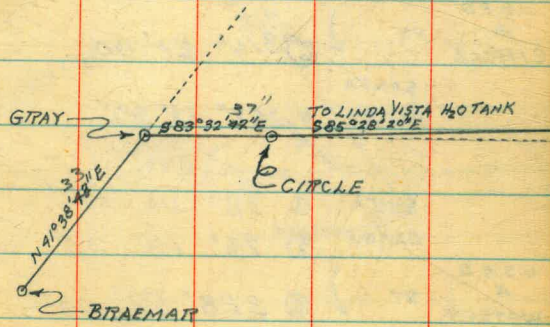




STATION	OBJECT	ANGLE
262.26'		38° 43'
		191° 17' 00"
	SAN RAFAEL	① 413° 24' 00"
		282° 33' 30"
VERONA	INT. LEFT	③ 226° 48' 00"
		191° 16' 45"
	YARD	AV. 413° 24' 00"
62.72'		
	VERONA	① 139° 43' 00"
YARD	INT. RT.	② 269° 26' 00"
	YARMOUTH CT. AV.	139° 43' 00"
355.67'		
	YARD	① 123° 14' 00"
YARMOUTH CT.	INT. LEFT	② 216° 27' 00"
	BRAEMAR	AV. 123° 13' 30"
925.57'		
	YARMOUTH CT.	① 8° 55' 00"
BRAEMAR	DEF. LEFT	② 17° 50' 00"
	GRAY	AV. 8° 55' 00"
410.70'		



STATION	OBJECT	ANGLE
410.70'	BRAEMAR	① 59° 48' 00"
GRAY	DEF. RT.	② 109° 37' 00"
	U.S.E.D. "CIRCLE"	AV. 59° 48' 30"
262.39'	GRAY	① 1° 54' 00"
		③ 3° 49' 00"
CIRCLE	DEF. LEFT	④ 11° 28' 00"
	LINDA VISTA H <sub>2</sub> O TANK	AV. 1° 54' 40"



83-32-47  
 1 59-40  
 85-27-27  
 50

TRIANGULATION OF "SANTA CLARA"

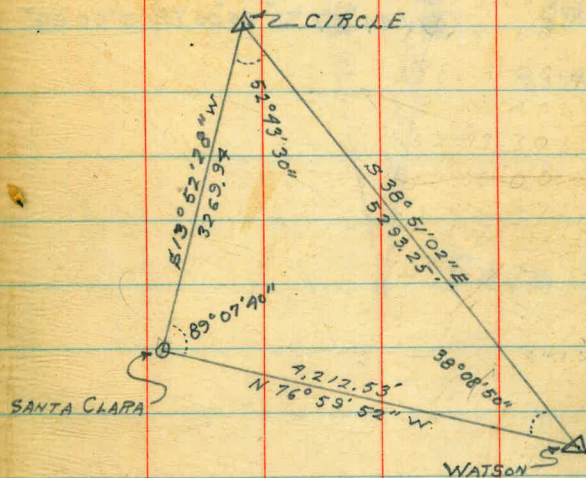
MISSION BAY

STA	OBJECT	SIX ANGLES	MEAN	VERNIER
		① $89^{\circ} 08' 00''$		
	U.S.E.D. "CIRCLE"	② $178^{\circ} 15' 30''$		$00^{\circ} 00' 00''$
SANTA CLARA	RT	③ $534^{\circ} 46' 00''$		
	U.S.E.D. "WATSON"	AV. $89^{\circ} 07' 40''$		
	U.S.E.D. "WATSON"	④ $52^{\circ} 49' 00''$		
	U.S.E.D. "CIRCLE"	⑤ $105^{\circ} 27' 00''$		$00^{\circ} 00' 00''$
SANTA CLARA	RT	⑥ $316^{\circ} 21' 00''$		
	AV.	$52^{\circ} 43' 30''$		
SANTA CLARA		⑦ $38^{\circ} 09' 00''$		
		⑧ $76^{\circ} 18' 00''$		$00^{\circ} 00' 00''$
WATSON	RT	⑨ $228^{\circ} 53' 00''$		
	U.S.E.D. "CIRCLE"	AV. $38^{\circ} 08' 50''$		

Indexed

BARRAGAN  
SHERRY  
STANLEY

3-16-48  
WARM  
CALM  
VISIBILITY FAIR



LOCATION OF TRIANGULATION

STA. SANTA CLARA

STA OBJECT SIX ANGLES MEAN VERNIER

QUEENSTON ①  $24^{\circ}06'00''$

SANTA CLARA RY ②  $48^{\circ}13'00''$

③  $144^{\circ}37'30''$  ④  $24^{\circ}06'15''$  ⑤  $0^{\circ}00'00''$

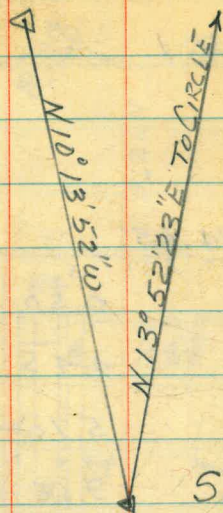
CIRCLE

3-17-48

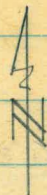
②

Indexed

QUEENSTON



SANTA CLARA



LOCATION OF PIER & LAUNCHING

RAMP EL CARMEL POINT

STA	+	H.I	-	ELEV
B.M				8.44 106+00
B.M				8.44 107+00
		6.21	14.65	
T.B.M.				TOP FIRE
		0.50	14.15	PLUG
1+30		4.45	10.25	TOP HUB PIER
1+40		5.70	8.95	TOP HUB L. RAMP
1+90 <sup>E</sup>		9.65	5.00	TOP HUB PIER
1+90 <sup>E</sup>		9.95	4.70	TOP HUB L. RAMP
GRADES				

EL CARMEL PT.

0+00

1+30

1+50  
BULKHEAD

1+90.5

2+00.5

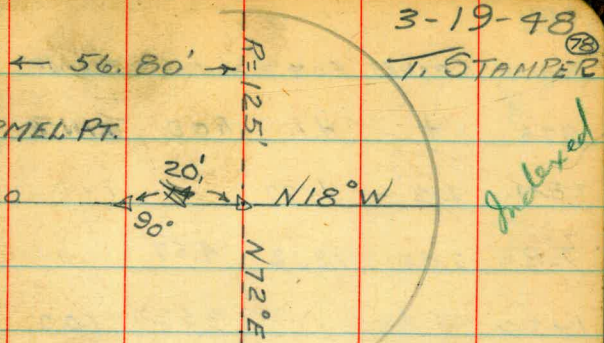
2+22.5

2+38.5

2+54.5

2+76.5

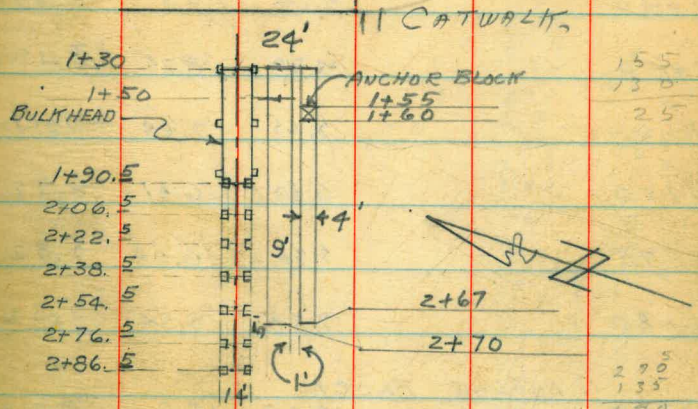
2+86.5



3-19-48

T. STAMPER

INDEXED



15.5  
13.0  
2.5

29.0  
13.5  
15.0

7  
5  
1.5  
10.5  
2.5  
21

4.5  
1  
2  
7.2

4-1-78

9.50  
1.22  
8.18

79

## FINISH GRADES FOR LAUNCHING RAMP &amp; ANCHOR BLOCK

STA	+	H.I.	ROD	GRADE	ELEV TOP FIRE PLUG				
T.B.M.	1.12	15.27			14.15		14.15 1.12 15.27	Induced	
T.P.	2.42	13.12	4.57		10.70		4.57 10.70 2.92 13.12		
1+30			3.52	10.0	9.60	F-0.4	10.70 2.92 13.12	13.12	
1+40			4.14	9.5	8.98	F-0.52	13.12 3.52 9.60	6.61	
1+50			4.93	8.75	8.19	F-0.56	9.60 8.98 5.2	5.82	
1+60			5.65	7.68	7.97	F-0.21	8.19 5.2 6.32	.79	
1+70			6.80	6.61	6.32	F-0.29	8.19 5.2 6.32	6.61	
1+75			7.30	6.08	5.82	F-0.26	8.19 5.2 6.32	6.32	
1+80			7.80	5.51	5.32	F-0.22	8.19 5.2 6.32	.29	
ANCHOR BLOCK									
1+30			3.50	10.0	9.62	F-0.28	8.19 5.2 6.32	6.08	
1+55			5.45	8.0	7.67	F-0.33	8.19 5.2 6.32	5.82	
1+60			5.80	8.0	7.32	F-0.68	8.19 5.2 6.32	.26	
PIER									
1+90.5			8.66	7.62	7.46	F-3.16	8.19 5.2 6.32	5.51	
							To TOP OF PILE 1.88 BELOW TOPO OF PIER		

4-5-48

## PROFILE OF LAUNCHING

RAMP ELCARMEL POINT

Indexed

(80)

STA	+	H.I.	-	ELEV
B.M.				14.15 TOP F.H.
	0.60	14.75		
1+30			5.6	9.1
1+40			6.1	8.6
1+50			7.1	7.6
1+60			8.3	6.4
1+70			9.1	5.6
1+80			9.4	5.3
1+90			10.4	4.3
			10.9	3.8 TOP H <sub>2</sub> O

DIST SOUND      DIST SOUND

0+00 = 1+90

1+96	3.8	4.3	2+10	6.1	-2.3
2+00	0.3	+3.5	50	9.3	-5.5
710	1.3	+2.5	60	11.0	-7.2
20	2.4	+1.4	70	11.0	-7.2
30	7.3	-0.5	80	11.1	
			2+90	11.3	

# Shots for Sprinkler System, Tierra del Fuego

T.O. ALLEN  
C. BARRAGAN  
A. SHERRY

2/25/49

(81)

Ind. Col. 201

AZ 91° 53' 06" COASTER S 88° 06' 54" W

CAUSEWAY 1/4 L N 10° 11' 36" W  
AZ 346° 23' 50" BAY PT 13° 36' 10" W

N-87+41  
91+85 END OF N/BRK IN CURB.

N-85+92  
90+86 END OF S/BRK IN CURB

OBJECT

LMP POST 4613      359 59 60

N/END OF BRIDGE      13 36 10  
346 27 50

LMP POST 4617

WATER VALVE

" METER

E OF DIAT RD // TO CAUSEWAY

On Rock at Path (water Pipe)

Rocks - Parking Area

+12 Contour, Atlantic Basin

" " " "      359 60

Palm      299 50

S.E. Cor. Club House      180

N.E. " " "      119 50

" " " "      119 50

STA      AZIM      DIST

CAUSEWAY  
△      346° 23' 50"      To "BAY POINT" Δ

168° 15'      35'

169° 53'      107'

09° 28'      113'

12° 18'      233'

338° 45'      236'

326° 15'      264'

⊙  
⊙  
423      299° 50'      423'

B.S. To "CAUSEWAY" AZIM = 119° 50'

1      191° 25'      115'

2      202° 02'      283'

3      225° 50'      190'

4      244° 25'      121'

5      271° 10'      134'

6      287° 52'      141'



1905

1350

.855

	Azm.	Dist
7	294° 15'	168'
8	288° 20'	115'
9	292° 45'	104'
10	303° 15'	114'
11	299° 35'	251'
12	311° 35'	191'
13	326° 25'	237'
14	335° 25'	330'
15	332° 25'	366'
16	323° 30'	405'
17	327° 15'	506'
18	348° 55'	440'
19	345° 10'	310'
20	336° 25'	184'
21	309° 10'	93'
22	357° 10'	74'
23	357° 55'	436'
24	6° 30'	460'

Flag Pole

Palm. No 1

" 2

" 3

Pond

" Corner

"

" Cor

"

"

Road, edge

" end of Rocks - Parking

Rocks - Parking - West

" " "

" " "

" " - East

Cross-Road " " - Cross-Road

	AZM.	DIST
25	12° 05'	468'
26	18° 20'	455'
27	180° 45'	185'
28	174° 30'	260'
29	159° 25'	325'
30	142° 40'	343'

Cross Road

" " & N-S Road - <sup>2</sup>West edge

⊥ Road - South end

" "

" "

(84)

3-18-48

LOCATION OF DRAIN FLUME  
AT YARMOUTH MISSION BEACH

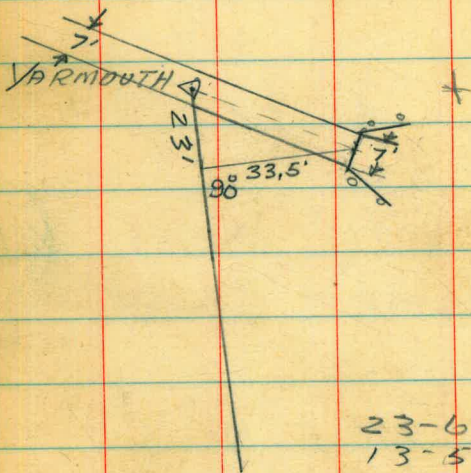
303.24

71.46

91.91

466.61

*Indexed*



23-65-75  
 13-52-23  
 N10-13-52W

11 27 120

118°25'00" / 912'30" 6

QUEN  
TOL.

S.R.  
VER

2125 40 15" / 12 50 22"  
12 50 15"

25 41 00

195° 28

193° 26'

96° 13

.95

141° 16' 30"

282° 33' 30"

320° 24' 30"  
360 ST. CAR. - QUE.

680 27 30 / 11324 05

ST. CAR. } L 113° 24' 05"

TO QUEENS } DIST. 166.82'

QUEENS } L 9° 12' 30"

TOUADON } DIST. 975.00'

SAN RAFA } L 6° 56' 40"

SAN RAFA } DIST. 221.91'

VERONA } L 12° 50' 30"

VERONA } DIST. 262.26'

VERONA }  
CORNER } DIST. 41.42

YARMOUTH CT.

N 10° 13' 20" W

N 57° 50' 11" E

113 24 05 66 36 51  
 103 07 49 66

10 16 16 89 59 60

76 50 11

FLUME - 23' S / YARMOUTH

33.5' 30° EAST

8' WIDE 7' OUTLET

6" WALL

13 09 19

76 50 11

11 32 40 5

130 11 16



60° 53' 24" - 46 89-08  
 73 53 21 5 19 53 5 48  
 134-46 107-19

67-23 Dallas - 11-18-47  
 Wireless to Kendall: 61° 23'  
 Kendall to Horse - 50° 22' 30"  
 Horse to Chimney - 51° 08' 10"  
 POLE - KNDL - 89° 45'  
 KNDL - HORSE - 52° 32'  
 HORSE - CHIMNEY - 76° 32'

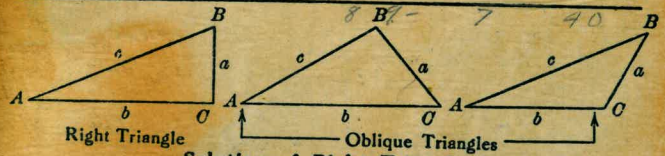
SANTA CLARA TO MAR. TWR  
 S 69° 46' 20" E  
 16 13 20

TO QUEENSTON 59° 32' 00" 12 5° 28'

- ① 113° 24' VER. SAN RAFAEL VER. 62.72 (LEFT)
- ② 226° 18' YARD
- ① 134° 43' 00" YARD VERONA 355.67 (RT)
- ② 269° 26' 00" YARMOUTH CT.
- ① 123° 14' 00" YARMOUTH YARD CT. 925.57
- ② 296° 27' 00" BRUSH (BRAEMAR ALLEY) (LEFT)
- ① D.L. 8° 55' 00" BRAEMAR YARMOUTH CT. 410.70
- ② 17° 50' 00" GRAY (DEF. LEFT)
- ① D-RT. 59° 46' 00" GRAY BRAEMAR
- ② 110° 23' 00" 262.39'
- 103° 37' 00" CIRCLE
- 59° 28' 30"

534-48 174-46-00  
 300 300  
 174-48 6) 534 46-240

TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

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

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  $B = 90^\circ - A$ ,  $b = a \cot A$ ,  $c = \frac{a}{\sin A}$   
 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  
 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° 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.

