

MISSION BAY

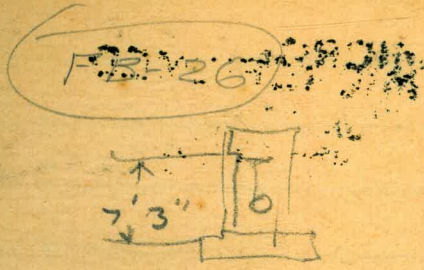
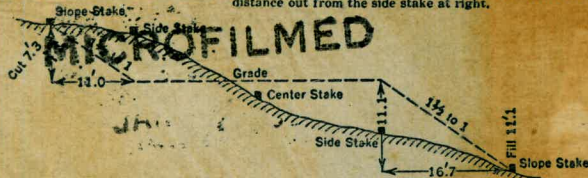
NO 26

K&E

LEVEL BOOK

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

The paper in this book No. 370A
 is made of 50% high grade rag stock
 with a WATER RESISTING surface sizing.

11,638-1. c, y, ya, km.

INDEX

<u>PAGES</u>		<u>DATE</u>
1-6	FINAL X-SECTIONS PROJ #8	10-20-47
6-8	FINAL SOUNDINGS OF SLOPES PROJ #8	10-20-47
8-15	FINAL SOUNDINGS OF SLOPES PROJ #8	10-22-47
15-17	FINAL X-SECTIONS PROJ #8	10-22-47
	SOUNDINGS OF SLOPES - EAST	
17-26	HALF TIERRA DEL FUEGO	10-24-47
26	FINAL SOUNDINGS OF SLOPES PROJ #8	10-24-47
	SOUNDINGS OF SLOPES - EAST	
27-29	HALF TIERRA DEL FUEGO	10-24-47
30-35	SOUNDINGS E. HALF TIERRA DEL FUEGO	10-30-47
	ORIGINAL SOUNDINGS PROJ #3.1	
36	LAFATERA ISLAND	10-30-47
	ORIGINAL SOUNDINGS OF BORROW	
37-49	AREA ADJOINING SEC. "C" PROJ. #3.1	1-29-48
	FINAL SOUNDINGS OF BORROW AREA	
49-58	ADJOINING S. SIDE CHAN. SEC. "D" PROJ. #3.1	2-3-48
	FINAL SOUNDINGS OF APPROACH	
53-68	CHANNEL SEC. "B" PROJECT #3.1	2-24-48
	FINAL SOUNDINGS OF BORROW AREA	
69-72	ADJOINING CHANNEL SEC. "C" PROJ. #3.1	2-24-48
	RECORD OF FILL DIRT HAULED	4-26-48
73-76	BY R.E. HAZARD Co.	5-5-48

PX
FINAL X-SECTIONS PROJECT # 8

BARRAGAN
SHERIDY
STANLEY
8

10-20-47
OVERCAST
COOL
60-65.

PX

0+00 = STA- 97+00 - 11- 98+00

10-20-47

Indexed

STA	+	H.I.	-	ELEV	STA-	+	H.I.	-	ELEV
T.B.M.	3.96	18.86		14.90	T.B.M	7.10	19.55		12.95
T.P.	6.70	13.67	11.89	6.97	T.P.			3.98	15.57
	0+00 = STA- 90+00			19-100+00	E 3+45			2.5	17.0
T.B.M	6.70	13.67		6.97	E 2+95			2.8	16.7
0+00			5.1	8.6	E 2+40			2.7	16.8
E 0+97			3.6	10.1	E 1+80			3.1	16.4
E 1+05			2.8	10.9	E 1+28			3.5	16.0
E 1+65			1.4	12.3	E 0+85			4.0	15.5
E 2+35			0.6	13.1	E 0+36			4.0	15.5
E 3+10			0.9	12.8	0+00			4.9	14.6
T.P.			1.22	12.45	W 0+75			6.7	13.8
					W 1+00			6.6	13.0
					W 1+70			6.6	13.0
					W 1+65			6.9	12.6
					W 1+95			7.9	11.6
					W 2+25			10.8	8.7
					W 2+60			14.2	5.3

2x2 34' W
1/24-STA-97
20' E
STA-90-11

21' E
STA-90-11

70' W
STA-92-11

40' N
(72.92)-11-98
20' E
STA-98-11-38

10-20-4

10-20-47

(2)

$$PX \quad 0+00 = 98+00 - (R - 98+00)$$

$$PX \quad 0+00 = 99+00 - (R - 98+00)$$

STA	+	H.I.	-	ELEV
-----	---	------	---	------

STA	+	H.I.	-	ELEV
-----	---	------	---	------

20' E

20' E

T.B.M	3.56	19.13		15.57	STA-98-R-98
-------	------	-------	--	-------	-------------

T.B.M	2.71	18.28		15.57	STA-98-R-98
-------	------	-------	--	-------	-------------

W 2+20		13.5	5.6		
--------	--	------	-----	--	--

E 4+36		1.5	16.8		
--------	--	-----	------	--	--

W 2+00		11.7	7.4		
--------	--	------	-----	--	--

E 3+63		1.7	16.6		
--------	--	-----	------	--	--

W 1+75		9.5	9.6		
--------	--	-----	-----	--	--

E 2+95		2.6	15.7		
--------	--	-----	------	--	--

W 1+97		7.5	11.6		
--------	--	-----	------	--	--

E 2+30		2.9	15.4		
--------	--	-----	------	--	--

W 1+05		7.0	12.1		
--------	--	-----	------	--	--

E 1+65		3.2	15.1		
--------	--	-----	------	--	--

W 0+57		6.4	12.7		
--------	--	-----	------	--	--

E 0+82		3.8	14.5		
--------	--	-----	------	--	--

W 0+30		5.8	13.3		
--------	--	-----	------	--	--

0+00		4.9	13.4		
------	--	-----	------	--	--

0+00		5.0	14.1		
------	--	-----	------	--	--

W 0+50		5.9	12.4		
--------	--	-----	------	--	--

E 0+95		7.1	15.0		
--------	--	-----	------	--	--

W 0+87		6.1	12.2		
--------	--	-----	------	--	--

E 1+05		3.2	15.9		
--------	--	-----	------	--	--

W 1+30		9.5	8.8		
--------	--	-----	-----	--	--

E 1+65		3.3	15.8		
--------	--	-----	------	--	--

W 1+70		12.9	5.4		
--------	--	------	-----	--	--

E 2+30		3.0	16.1		
--------	--	-----	------	--	--

E 2+92		2.6	16.5		
--------	--	-----	------	--	--

E 3+50		3.2	15.9		
--------	--	-----	------	--	--

E 4+15		3.6	15.3		
--------	--	-----	------	--	--

PX

$$0+00 = 100+00 \quad (R-98400)$$

10-20-47

STA	+	H.I.	-	ELEV
T.B.M	2.42	17.99		15.57
W 1+20			12.7	5.3
W 0+82			10.2	7.8
W 0+92			6.3	11.7
0+00			5.1	12.9
E 0+60			5.0	13.0
E 1+10			3.8	14.2
E 1+75			3.6	14.4
E 2+45			3.0	15.0
E 3+15			2.9 3.9	15.1
E 3+80			2.7	15.3
E 4+55			2.7	15.3

T.P.

4.43 13.56

20' N/E
99700 A-31

920

PX

$$0+00 = 101+00 - (R-100+00)$$

10-20-47

③

STA	+	H.I.	-	ELEV
T.B.M	5.20	18.76		13.56
W 2+00			13.7	5.1
W 1+73			12.2	6.6
W 1+45			10.0	8.8
W 1+13			7.8	11.0
W 0+80			6.7	12.1
W 0+90			5.1	13.7
0+00			5.1	13.7
E 0+47			4.9	13.9
E 0+38			4.8	14.0
E 1+42			5.4	13.4
E 1+92			5.5	13.3
E 2+48			5.4	13.4
E 3+15			5.1	13.7
E 3+75			4.8	14.0

20' N/E

PX

$$0+00 = 89+00 - (R-10+00)$$

STA	+	H.I.	-	ELEV
T.B.M	2.65	17.55		14.90
T.P.			4.69	12.86
0+00			4.8	12.7
W 0+35			4.9	12.6
W 0+70			5.0	12.5
W 1+00			6.3	11.2
W 1+28			8.4	9.1
W 1+80			12.0	5.5
			4.9	

2.65 10-20-97

PX

$$0+00 = 88+00 - (R-10+00)$$

STA	+	H.I.	-	ELEV
T.B.M	4.28	17.14		12.86
W 0+82			10.0	7.1
W 0+65			8.3	8.8
W 0+50			6.9	10.2
W 0+34			5.5	11.6

3

10-20-97

(9)

10-20-47

PX $0+00 = 79+00 - (R-107+00)$

STA	+	H.I.	-	ELEV
T.B.M.	4.25	17.30		13.05
W2+00			5.1	12.2
W1+52			4.8	12.5
W1+00			4.9	12.4
W0+50			4.3	13.0
0+00			5.0	12.3
E0+55			5.2	12.1
E1+00			5.0	12.3
E1+48			5.0	12.3
E2+00			5.4	11.9
T.P.	4.23	17.08	4.45	12.85
$\sqrt{0+00 = STA-79+00 - (R-109+00)}$				
0+00		17.08	5.1	12.0
E0+16			5.5	11.6
E0+40			8.6	8.5
E0+60			11.8	5.3
T.P.			3.95	13.13

20' W
STA-80-11-10

10-20-47

PX $0+00 = 80+00 - (R-109+00)$

STA	+	H.I.	-	ELEV
T.B.M.	4.32	17.95		13.13
E0+70			11.3	6.1
E0+58			9.1	8.3
E0+47			7.3	10.1
E0+31			5.5	12.0
0+00			5.1	12.4
$0+00 = STA-81+00 - (R-109+00)$				
T.B.M.	4.19	17.32		13.13
0+00			4.9	12.4
E0+15			5.4	11.9
E0+30			7.2	10.1
E0+46			9.2	8.1
E0+60			11.5	5.8

20' W
STA-80-11-10

PX

0+00 = 82+00 - (R-109+00)

10-20-47

PX

FINAL SOUNDINGS OF SLOPES PROJECT #8

10-20-47

⑥

STA + H.I. - ELEV

T.B.M 3.74 16.87 13.13

0+00 5.0 11.9

E 0+27 1.8 12.1

E 0+57 5.8 11.1

E 0+90 7.5 9.4

E 1+28 8.9 8.0

E 1+71 10.2 6.7

E 2+08 11.0 5.9

E 2+40 12.0 4.9

T.P 4.89 16.56 5.20 11.67

T.P 5.16 17.37 4.35 12.21

T.B.M
2x2 30' W
STA. 92 - R-109 2.78 14.89 =
14.90

83+00

(180' W. R-104)

0+00 = R-102+20 (STA. 83+00) SOUND WEST

DIST SOUND DIST SOUND

0+20 0.0 +4.4 1+70 7.0 -2.6

+30 0.7 +3.7 6.7 -2.3

15:00
1.4 +3.0 6.5 -2.1

50 2.1 +2.0 2+00 7.0 -2.6

4.1 +0.3 2.0 -2.6

④ 4.1 +0.3 7.0 -2.6

4.2 +0.2 ④ 4.4 7.2 -2.8

5.0 -0.6 6.8 -2.4

14:00 5.2 -0.8 50 7.2 -2.8

4.8 -0.4 6.1 -1.7

4.5 -0.1 6.1 -1.7

15:00
4.6 -0.2 6.5 -2.1

5.1 -1.0 7.2 -2.8

50 6.3 -1.9 3+00 7.9 -3.5

14:60 7.0 -2.6 3+10 9.0 -4.6

Indep. 2

PX.			89+00		
DIST	SOUND		DIST	SOUND	
S 3+20	9.0	-4.6			
T	9.7	-5.3			
O	9.5	-5.1			
E 50	10.6	-6.3			
E	11.0	-6.7			
E (4.3)	12.0	-7.7			
E	12.4	-8.1			
E 15:08	13.0	-8.7			
E 4+00	13.3	-9.6			
E	13.8	-9.5			
T	13.8	-9.5			
	13.5	-9.2			
T.R. 272 STA. 9	13.2	-8.9			
	50 13.0	-8.7			

PV			90+00			10-20-97	(7)
(115 W P 100)			STN. 20+00: SOUND WEST				
DIST	SOUND		DIST	SOUND			
0+07	0.0	+4.2	1+60	8.1	-3.9		
1+10	0.2	+4.0		9.8	-5.6		
2+00	0.7	+3.5	15:21	11.0	-6.8		
3+00	1.2	+3.0		11.8	-7.6		
4+00	2.1	+2.1	2+00	13.0	-8.8		
5+00	2.6	+1.6		12.8	-8.6		
6+00	2.8	+1.4	(4.2)	12.5	-8.3		
7+00	3.5	+0.7	(4.2)	12.2	-8.0		
8+00	5.0	-0.8		12.0	-7.8		
9+00	6.0	-1.8	50	12.0	-7.8		
10+00	6.0	-1.8		12.2	-8.0		
11+00	5.8	-1.6		12.2	-8.0		
12+00	6.5	-2.3		12.0	-7.8		
13+00	7.2	-3.0		12.0	-7.8		
14+00	7.2	-3.0	3+00	12.0	-7.8		
15+00	7.3	-3.1					

PX.

91+00

(170' W R-99)

0+00 = R-97+30 STA-91+00 : SOUND WEST

95+00

10-22-77

8

(R-95+50 STA-95+00) SOUND WEST AT 90° TO R/L.

PX

	DIST	SOUND	DIST	SOUND	DIST	SOUND	DIST	SOUND
	0+00	0.0 +4.1	1+60	11.8 -7.7	+23	0.0 +4.2	1+80	11.7 -7.5
E	+10	1.0 +3.1		12.2 -8.1	30	0.9 +3.3	(4.2)	12.2 -8.0
E	<u>15:32</u>	1.6 +2.5	<u>15:35</u>	12.2 -8.1	<u>3:25</u>	2.7 +1.5	2+00	12.0 -7.8
E		2.3 +1.8		12.5 -8.4	50	1.6 -0.4		12.0 —
E		3.2 +0.9	2+00	12.5 -8.4	(4.2)	6.3 -2.1		12.0 —
E	50	7.5 -0.4		12.3 -8.2		7.8 -3.6		12.0 —
E		9.8 -0.7		12.3 -8.2		7.5 -3.3		12.2 -8.0
E	(4.1)	6.0 -1.9	(4.1)	12.0 -7.9		7.5 —	50	12.2 —
		6.7 -2.6		12.0 -7.9	1+00	7.5 —	<u>09:32</u>	
		7.8 -3.7	50	11.5 -7.4		7.9 -3.2		
T BY STA	1+00	8.5 -4.4	<u>15:39</u>			8.9 -4.2		
		9.3 -5.2				10.0 -5.8		
		10.0 -5.9				11.0 -6.8		
		10.5 -6.4			50	11.0 —		
		11.3 -7.2				11.0 —		
	1+50	11.3 -7.2			1+70	11.5 -7.3		

Indexed

96+00

STATION 96+00

SOUND WEST 90° To R/L

DIST SOUND

0+24	0.0	+4.1	1+80	12.0	-7.9
30	1.0	+3.1	09:45	12.0	—
09:38	2.0	+2.1	2+00	12.0	—
50	3.0	+1.1	(4.1)	12.0	—
(4.1)	4.7	-0.6		12.0	—
	5.5	-1.4		12.0	—
	5.9	-1.8			—
	6.8	-2.7	50		—
1+00	7.2	-3.1			—
	8.2	-4.1			—
	9.5	-5.4			—
	11.0	-6.9			—
	11.4	-7.3			—
50	11.4	—			—
	11.5	-7.4			—
1+70	11.8	-7.7			—

97+00

STATION 97+00

SOUND WEST 90° To R/L

DIST SOUND

0+14	0.0	+4.1	1+70	12.0	-7.9
+20	1.1	+3.0	(4.1)	12.0	—
09:41	3.8	+0.3		12.1	-8.0
(4.1)	5.9	-1.8	2+00	12.1	—
50	6.5	-2.4	09:50		—
	6.5	—			—
	6.5	—			—
	7.2	-3.1			—
	7.3	-3.2			—
1+00	8.6	-4.5			—
	11.0	-6.9			—
	11.0	—			—
	11.0	—			—
	11.1	-7.0			—
50	11.2	-7.1			—
1+60	11.6	-7.5			—

220
9580

98+00

0+00 = { R-95+80
S-98+00

SOUND WEST AT 90° To R/L

DIST SOUND

0+21	0.0	+4.1	1780	11.8	-7.7
+30	1.0	+3.1	(4.1)	12.0	-7.9
09:57	2.7	+1.4	2+00	12.0	—
50	4.2	-0.1		12.0	—
(4.1)	5.3	-1.2	10:00	12.0	-8.0
	5.8	-1.7			
	7.1	-3.0			
	7.1	—			
1+00	7.3	-3.2			
	7.4	-3.3			
	8.2	-4.1			
	10.0	-5.9			
	11.1	-7.0			
50	11.5	-7.4			
	11.5	—			
1+70	11.5	—			

170
9670

99+00

0+00 = { R-96+30
S-99+00

SOUND WEST AT 90° To R/L

DIST SOUND

0+18	0.0	+4.0	1780	12.0	-8.0
30	1.6	+2.4		11.7	-7.7
12:26	3.0	+1.0	2+00	11.6	-7.6
50	5.2	-1.2	(4.0)	12.0	-8.0
(4.0)	6.5	-2.5		12.1	-8.1
	7.1	-3.1		12.1	-8.4
	7.4	-3.4	2+10	12.1	—
	7.3	-3.3	10:10		
1+00	7.0	-3.0			
	7.8	-3.8			
	9.1	-5.1			
	9.4	-5.4			
	9.8	-5.8			
50	10.4	-6.4			
	11.1	-7.1			
1+70	11.7	-7.7			

120 W - 58
120
7680

10-22-97

100+00

0+00 = {^{ST-96480} ST-100+00 } SOUND WEST AT 90° To R/L

DIST	SOUND	DIST	SOUND
0+22	0.0	+4.0	1780 12.0 -8.0
+30	0.9	+3.1	12.0 —
<u>10:15</u>	1.5	+2.5	2+00 11.8 -7.8
50	4.0	0.0	12.1 -8.1
(4.0)	5.6	-1.6	(4.0) 12.0 -8.0
	7.0	-3.0	
	7.7	-3.7	
	7.8	-3.8	
1+00	8.0	-4.0	
	8.5	-4.5	
	9.0	-5.0	
	9.8	-5.8	
	10.2	-6.2	
50	11.2	-7.2	
<u>10:18</u>	11.5	-7.5	
1+70	11.8	-7.8	

10-22-17

(11)

101+00

0+00 = {^{ST-98400} ST-101+00 } DIST 50 AT 90° To R/L

DIST	SOUND	DIST	SOUND
0+20	0.0	+4.0	1780 11.5 -7.5
30	0.5	+3.5	11.8 -7.8
<u>10:22</u>	1.7	+2.3	2+00 12.1 -8.1
50	3.0	+1.0	(4.0) 12.0 -8.0
(4.0)	3.2	+0.8	11.8 -7.8
	4.2	-0.2	11.8 —
	5.0	-1.0	11.9 -7.9
	4.8	-0.8	50 11.9 —
1+00	5.0	-1.0	<u>10:30</u>
	6.0	-2.0	
	6.5	-2.5	
	7.0	-3.0	
	7.4	-3.4	
50	8.9	-4.9	
	9.7	-5.7	
1+70	10.5	-6.5	

102+00

102+00

0+00 = {
ST-100+00
STA-102+00

SOUND WEST AT 90° TO R/L

DIST SOUND

DIST SOUND

DIST SOUND

~~DIST SOUND~~

3+60 10.5 -6.5

10.5 —

PX

0+46 0.0 +4.0 2+00 8.8 -4.8

10.7 -6.7

50 0.6 10:43 9.0 -5.0

(4.0) 11.1 -7.1

60 0.6 +3.4 9.2 -5.2

4+00 11.5 -7.5

10:40 1.0 2+ 10:40 +3.0 (1.0) 10.0 -6.0

11.5 —

2.1 2.9 +1.9 10.1 -6.1

10:47 11.5 —

(4.0) 2.9 3.9 +1.1 50 10.2 -6.2

11.4 -7.4

1+00 3.9 +0.1 10.5 -6.5

11.2 -7.2

4.5 -0.5 11.0 -7.0

50 11.3 -7.3

5.0 -1.0 11.1 -7.1

11.3 —

5.0 — 11.1 —

11.5 -7.5

7.0 -3.0 3+00 11.1 —

11.7 -7.7

50 7.0 — 11.0 -7.0

11.7 —

7.0 — 10.5 -6.5

5+00 11.6 -7.6

2.5 -3.5 10.5 —

8.0 -4.0 10.6 -6.6

1+90 8.8 -4.8 3+50 10.5 -6.5

PX 103+00 10-22-47

0+00 = R 100+00

SOUND WEST			SOUND EAST		
DIST	SOUND		DIST	SOUND	
	8.3	-4.3	0+10	8.2	-4.2
11:05	8.5	-4.5	+20	8.0	-4.0
	8.9	-4.9	11:10	7.8	-3.8
(4.0)	9.6	-5.6	(4.0)	7.8	—
	10.0	-6.0	50	7.8	—
50	10.4	-6.4		8.0	-4.0
	11.1	-7.1		8.0	—
	11.0	-7.0		8.0	—
	11.3	-7.3		8.5	—
	11.8	-7.8		8.5	-4.5
	11.8	-7.8	1+00	7.7	-3.7
1+00	12.3	-8.3		7.5	-3.5
	12.3	—		8.0	-4.0
	12.3	—		8.8	-4.8
	12.6	-8.6		8.7	-4.7
	12.7	-8.7	50	7.8	-3.8
50	12.7	—		7.0	-3.0
1+60			1+70	6.5	-2.5

PX 103+00 10-22-47

DIST	SOUND		DIST	SOUND	
1+80	6.3	-2.3	3+60	8.0	-4.0
	6.5	-2.5		7.7	-3.7
2+00	6.8	-2.8	(4.0)	7.0	-3.0
	6.8	—		7.1	-3.1
(4.0)	7.0	-3.0	4+00	6.8	-2.8
	7.5	-3.5		7.0	-3.0
	7.7	-3.3		7.5	-3.5
50	7.8	-3.8		6.5	-2.5
	8.5	-4.5		6.5	—
	7.6	-3.6	50	6.8	-2.8
	7.7	-3.3		6.8	—
	7.7	—		7.8	-3.8
7+00	7.4	-3.4		7.3	-3.3
	7.6	-3.6		7.0	-3.0
	7.0	-3.0	5+00	7.0	—
	6.7	-2.7		6.7	-2.7
11:15	7.2	-3.2		6.6	-2.6
7+50	7.8	-3.8	5+30	6.5	-2.5

9mkt (13)

PX			10-22-77		
DIST	SOUND		DIST	SOUND	
5+40	6.5	-2.5	7+20	12.0	-8.0
50	6.5	—		12.8	-8.8
	6.8	-2.8	(4.0)	13.0	-9.0
(4.0)	7.2	-3.2	50	13.1	-9.1
	8.1	-4.1		13.1	—
	8.2	-4.2		12.0	-8.0
6+00	8.8	-4.8		12.8	-8.8
	9.0	-5.0		13.2	-9.2
	9.0	—	8+00	13.2	—
	9.4	-5.4		13.2	—
	10.3	-6.3		13.4	-9.4
50	10.5	-6.5		12.5	-8.5
	10.1	-6.1		12.8	-8.8
	9.7	-5.7	50	12.0	-8.0
	9.2	-5.2		11.7	-7.7
11:20	10.8	-6.8		11.7	—
7+00	11.0	-7.0		11.7	—
7+16	11.6	-7.6	8+90	11.7	—

PX			10-22-77		
DIST	SOUND		DIST	SOUND	
9+00	11.7	-7.7	10+80	12.1	-8.1
11:22	11.8	-7.8	11:25	11.9	-7.9
	12.0	-8.0	11+00	11.5	-7.5
(4.0)	12.0	—	(4.0)	11.5	—
	12.0	—		12.0	-8.0
50	12.0	—		12.2	-8.2
	12.2	-8.2		12.2	—
	12.5	-8.5	50	12.2	—
	12.6	-8.6		12.0	-8.0
	12.6	—		12.0	—
10+00	12.7	-8.7		12.0	—
	12.7	—		11.5	-7.5
	12.7	—	12+00	11.5	—
	12.5	-8.5		12.0	-8.0
	12.5	—		12.5	-8.5
50	12.4	-8.4		11.7	-7.7
	12.2	-8.2		9.0	-5.0
10+70	12.2	—	12+50	7.8	-3.8

10-22-97

DIST	SOUND	
		103+00
12+60	7.0	-3.0
	7.0	—
(4.0)	7.8	-3.8
	8.5	-4.5
13+00	7.7	-3.7
	7.0	-3.0
	7.0	—
	6.0	-2.0
	4.4	-0.4
50	2.8	+1.2
	2.3	+1.7
	2.1	+1.9
	1.7	+2.3
	1.4	+2.6
14+00	0.6	+3.4
	0.0	+4.0

10-22-97

(5)

0+00 = 103+00 CAUSEWAY B/L.

STA-	+	H.I.	-	ELEV
T.A.M	2.40	14.65		12.25
B 0-10			8.5	5.1
W 0-6			8.5	—
W 120			9.7	4.9
W 139			9.8	4.8
W 148			10.3	4.3
W 160			10.5	4.1

CAUSEWAY
B/L
103+00

10-22-47

PX 87+00

PT. 0+00 = 350' W-88+00 Causeway T.B.L.

STA	+	H.I.	-	ELEV
T.B.M.	5.21	16.45		11.24
T.P.	4.20	14.34	6.31	10.14
E 96			2.7	11.6
E 50			2.6	11.7
0.0			5.0	9.3
W 45			5.6	8.7
W 105			5.5	8.8
W 180			5.3	9.0
W 232			5.8	8.5
W 295			6.0	8.3
W 356			5.8	8.5
W 433			5.7	8.6
W 495			6.2	8.1
W 575			6.1	8.2
W 650			5.8	8.5
W 725			5.8	—
W 785			5.0	9.3
W 845			3.5	10.8
W 950			3.8	11.5

7.89

10-22-47

(16)

STA-83+00

0+00 = $\begin{cases} R-109+00 \\ STA-83+00 \end{cases}$

Sta	+	H.I.	-	Elev.
T.B.M.	3.89	17.02		13.13
T.P.	5.16	18.44	3.74	13.28
0.0			5.1	13.3
E 65			4.5	13.9
E 118			4.2	14.2
E 180			4.2	—
E 250			4.3	14.1
E 295			4.4	14.0
E 380			4.3	14.1
E 416			4.8	13.6

20' W
R-109+00
80+00
BETWEEN
STA-83+89
R-109

10-22-47

PX Sta. B4+00

0+00 = { R. 109+00
Sta. B4+00 }

Sta	+ HI	-	Elev	T.P. Footwech Sta. 88+34
T.B.M.	3.56	16.84	13.28	
E 440		4.2	12.6	
E 395		4.3	12.5	
E 345		4.3	—	
E 295		4.5	12.3	
E 250		4.7	12.1	
E 203		4.5	12.3	
E 160		4.5	—	
E 105		4.4	12.4	
E 70		4.4	—	
E 32		4.9	11.9	
0.0		5.0	11.8	

BARRAGAN 10-22-47
SHAW'S
STANLEY

17

SOUNDINGS OF SLOPES-EAST HALF TIERRA DEL FUEGO.

STA- 81+00

SOUND EAST

0+00 = Pt. 125' EAST OF STA- 81+00 W/ CAUSEWAY ~~W/~~

DIST SOUND DIST SOUND

0+00 0.0 +4.3

08159 4.1 +0.2

7.4 -3.1

7.4 —

7.0 -2.7

50 7.0 —

(4.3) 6.3 -2.6

7.2 -2.9

7.5 -3.2

8.0 -3.7

1+00 8.5 -4.2

PX
Indexed

10-29-47

PX 82+00

0+00 = Pt. 215' EAST OF STA. 82+00 W/CAUSEWAY Bk.: SOUND EAST

DIST	SOUND	
0+03	0.0	+4.3
+10	1.2	+3.1
<u>09:03</u>	4.3	0.0
	5.0	-0.7
	6.1	-1.8
50	7.8	-3.5
(4.3)	8.4	-4.1
	8.5	-4.2
	9.0	-4.7
	9.5	-5.2
1+00	10.1	-5.8
	11.0	-6.7

10-29-47

(18)

PX 83+00

0+00 = Pt. 215' EAST OF STA. 83+00 W/CAUSEWAY Bk.: SOUND EAST

DIST	SOUND	
0+03	0.0	+4.3
<u>09:08</u> +10	1.8	+2.5
	2.0	+0.3
	6.4	-2.1
	8.0	-3.7
50	8.6	-4.3
(4.3)	9.2	-4.9
	10.2	-5.9
	11.1	-6.8
	12.3	-8.0
1+00	13.3	-9.0

10-24-17

84100

0+00 = Pt 356 EAST OF STA 84100 ^E CAUSEWAY B/L: SOUND EAST

DIST	SOUND	DIST	SOUND
0+03	0.0	+4.3	PX
1+0	2.5	+1.8	PX
<u>09.13</u>	6.4	-2.1	
	8.5	-4.2	
<u>4.3</u>	9.0	-4.7	
50	10.3	-6.0	
	11.5	-7.2	
	12.1	-7.8	
	13.1	-8.8	
	13.0	-8.7	
1+00	13.3	-9.0	

10-24-17

(19)

85100

0+00 = Pt 412 EAST OF STA 85100 CAUSEWAY B/L: SOUND EAST

DIST	SOUND	DIST	SOUND
		+4.2	
0+03	0.0	+4.3	
		+2.2	
1+0	2.0	+2.3	PX
<u>09.13</u>		-2.3	
	6.5	-2.2	
		-5.0	
<u>4.2</u>	9.2	-4.9	
<u>4.3</u>	10.2	-6.0	
		-5.9	
		-7.3	
50	11.5	-7.2	
		-7.8	
	12.0	-7.7	
		-9.1	
	13.3	-9.0	
		-9.8	
	17.0	-9.7	
		-9.5	
	17.7	-10.4	
		-11.5	
1+00	19.7	-11.4	

10-29-17

86+00

10-29-17

(20)

87+00

0+00 = Pt. 525' EAST OF STA-86+00 ? CAUSEWAY B/L: SOUND EAST 0+00 = Pt. 765' E OF STA-87+00 w/ CAUSEWAY B/L: SOUND EAST

DIST SOUND

DIST SOUND

DIST SOUND

DIST SOUND

0+05 0.0 +4.2

0+05 0.0 +4.1

+10 0.7 +3.5

03:30⁺¹⁰ 0.6 +3.5

09:25 1.1 +2.8

0.9 +3.2

(4.2) 2.0 +2.2

(4.1) 1.3 +2.8

(4.3) 2.1 +2.1

(4.4) 1.7 +2.4

50 2.7 +1.5

50 2.0 +2.1

3.6 +0.6

2.8 +1.3

4.1 -0.2

3.1 +1.0

4.3 -3.1

3.4 +0.7

4.5 -5.3

3.5 +0.6

1+00 10.0 -5.8

1+00 3.5 —

10.8 -6.6

3.7 +0.7

11.4 -7.2

4.0 +0.1

12.0 -7.8

4.0 —

12.0 —

4.0 —

1+50 12.0 —

1+50 3.3 +0.8

88+00

0+00 = Pt. 326 E/STA 88+00 W/CAUSEWAY B/L: SOUND EAST

DIST	SOUND		DIST	SOUND	
0+07	0.0	+4.1	1+60	2.0	+2.1
110	0.7	+3.4	2.1	2.1	+2.0
09:36	1.3	+2.8	(4.1)	2.0	+2.1
	2.0	+2.1			
	2.0	—	2+00		
50	2.0	—			
(4.4)	2.1	+2.0			
(4.1)	2.5	+1.6			
	2.7	+1.4			
	3.1	+1.0			
1+00	3.3	+0.8			
	3.5	+0.6			
	3.1	+1.0			
	3.1	—			
	2.8	+1.3			
1+50	2.1	+2.0			

89+00

0+00 = Pt. 363 E/STA 89+00 W/CAUSEWAY B/L: SOUND EAST

DIST	SOUND		DIST	SOUND	
0+10	10.2	+4.2	1+70	1.7	+2.3
+30	0.0	+4.0	(4.4)	1.7	—
09:45	0.5	+3.5	(4.0)	1.8	+2.2
	0.9	+3.6			
50	0.5	+3.5			
	1.0	+3.0			
(4.4)	1.7	+2.3			
(4.0)	2.0	+2.0			
	2.6	+1.4			
1+00	3.0	+1.0			
	3.1	+0.9			
	3.0	+1.0			
	3.0	—			
	2.5	+1.5			
50	2.0	+2.0			
1+60	2.0	—			

90+00

0+00 = Pt. 500' E/STA-90+00 W/CAUSEWAY B/L. SOUND EAST

DIST	SOUND	DIST.	SOUND
0+10	0.1	+3.6	
20	0.0	+4.0	
03:50	0.5	+3.5	
	0.6	+3.4	
50	1.0	+3.0	
	1.0	—	
(4.4)	1.0	—	
(4.0)	1.2	+2.8	
	1.0	+3.0	
1+00	0.8	+3.2	
	0.9	+3.1	
	0.8	+3.2	
	0.7	+3.3	
	0.6	+3.4	
1+50	0.5	+3.5	

91+00

0+00 = Pt. 590' E/STA 91+00 W/CAUSEWAY B/L.

STA-	+	H.I.	-	ELEV	H ₂ O LEVEL
H ₂ O				3.8	
ASPH	6.02	9.8		4.50	10:05
0+05			6.0	3.8	
0+20			6.6	3.2	
0+50			6.7	3.1	
1+02			6.1	3.4	
1+75			6.6	3.2	
1+85			6.0	3.8	

92+00

0700 = Pt. 709' E / STA-92700 W / CAUSEWAY 1/4

STA	H.I.	-	ELEV
H ₂ O			3.7
LEVEL	6.50	10.2	4.5
E 3+03		6.5	3.7
E 2+57		6.7	3.5
E 2+05		7.2	3.0
E 1+31		6.9	3.3
E 0+73		7.0	3.2
E 0+18		6.5	3.7
E 0+09		6.3	3.9

10-24-47

93+00

0700 = Pt. 830' E / STA-93700 W / CAUSEWAY 1/4

STA	H.I.	-	ELEV
H ₂ O			3.7
LEVEL	6.90	10.5	3.7
E 2+15		6.1	4.4
E 2+11		6.8	5.2
E 2+05		7.3	3.7
E 1+85		7.3	4.5
E 1+70		7.0	3.2
E 1+57		6.8	4.0
E 1+37		6.8	3.5
E 1+27		5.2	4.3
E 1+22		5.2	3.7
E 1+17		5.2	4.5
E 1+12		5.2	5.3
E 1+07		5.2	6.1

10-24-47

(23)

STA-93700 0700 = Pt. 1320' E / W / CAUSEWAY 1/4 SOUND EAST

DIST	SOUND	DIST	SOUND
0+20	+0.2 +3.8	1+20	+1.8
0+50	0.0 +3.6	2+20	+1.4
10:15	0.1 +3.5	2+20	—
(4.6)	0.2 +3.4	(3.6) ₅₀	+1.2
(3.6)	0.5 +3.1	3.4	+0.2
	0.5 —	7.0	-0.4
1+00	0.8 +2.8	5.2	-1.6
1+10	1.1 +2.5	5.8	-2.2
		5.1	-2.8
		2+00	-3.9

94+00

LAST PT. IN PREVIOUS SECT. 94+00
EAST OF STA. 94+00 W/CAUSEWAY 4/4.

0+00 = Pt

STA	H.I.	ELEV
H ₂ O		3.5
LEVEL	10.55	14.0

E0+30	2.5	11.5
E0+45	8.2	5.8
E0+70	8.6	5.4
E1+00	10.1	3.9
E1+30	10.5	3.5
E1+60	10.5	—
E1+80	10.8	3.2

STA 94+00 - 0+00 = PT. 170' E of (ABOVE PT.)

DIST	SOUND	DIST	SOUND
0+00	0.6 +2.9	6.9	-2.9
0+30	1.0 +2.5	7.0	-3.5
1.0	+1.7	7.3	-3.8
50	1.6 +1.9	8.0	-4.5
1.3	+2.2	8.5	-5.0
2.5	+1.0	8.5	—
5.0	-1.5	1+50	8.5

95+00

0+00 = PT. 1470' E - STA 95+00 W/CAUSEWAY 4/4.

STA	H.I.	ELEV
H ₂ O		3.3
LEVEL	5.55	18.8

E2+00	3.5	3.3
E1+63	7.9	3.9
E1+10	5.0	3.8
E0+65	7.8	4.0

0+00 = PT. 1630' E - STA 95+00 W/CAUSEWAY 4/4. SOUND EAST

DIST	SOUND	DIST	SOUND
0+10	0.5 +2.8	1+00	-3.2
1.0	—	6.8	-3.5
0.7	+2.6	7.0	-3.7
1.3	+2.0	7.1	-4.1
1.8	+1.5	7.5	-4.2
3.0	+0.3	50	2.5
4.5	-1.2		
5.4	-2.1		
5.5	-2.2		

96400

0+00 = PT. 790' E/STA-96400 W/CAUSEWAY 2/4:

STA	+	H.I.	-	ELEV	H ₂ O LEVEL
				3.0	13:00
				4.8	
	6.42	9.4			
E 0+75			5.0	4.4	
E 1+93			5.1	4.3	
E 2+32			5.1	—	
E 3+22			4.6	4.8	
E 4+03			5.1	4.3	
E 4+80			5.6	3.8	
E 5+60			5.8	3.6	
E 6+65			5.5	3.9	
E 7+55			5.3	4.1	
E 8+50			5.1	4.0	
E 9+22			5.5	3.9	
E 9+84			6.1	3.0	
E 10+20			7.80	1.6	

97+00

0+00 = PT 770' E/STA-97+00 W/CAUSEWAY 2/4:

STA	+	H.I.	-	ELEV	H ₂ O LEVEL
				3.0	13:08
				4.8	
	6.70	9.7			
E 10+02				7.8	1.9
E 9+95				6.7	3.0
E 9+25				6.0	3.7
E 8+90				5.8	3.9
E 7+65				5.8	—
E 6+35				6.0	3.7
E 6+15				6.1	3.3
E 5+35				6.1	—
E 4+50				6.5	3.2
E 3+10				6.0	3.7
E 2+20				5.7	4.0
E 1+50				5.5	4.2
E 0+66				5.3	4.4

98+00

0+00 = Pt. 790' E/STA-98+00 W/CAUSEWAY B/W

STA	+	H.I.	ELEV
PT. 790' STA-98+00 W/CAUSEWAY B/W	5.05	9.4	4.4
0+00		5.0	4.4
E0+63		5.6	3.8
E1+50		6.0	3.4
E2+45		6.3	3.1
E3+15		6.6	2.8

10-24-17

(RESOUNDING OF SLOPE)

10-24-17

(20)

FINAL SOUNDINGS OF SLOPES PROJECT #8

STA-103+00

PX

included

0+00 = STA-103+00 CAUSEWAY B/W; SOUND WEST

DIST	SOUND	DIST	SOUND
1+00	0.0 +3.1	1+50	9.0 -5.9
1+10	0.2 +2.9		9.1 -6.0
1+50	0.5 +2.6		9.0 -5.9
	1.0 +2.1		9.2 -6.1
	1.5 +1.6		9.2 -6.1
50	2.0 +1.1	2+00	9.8 -6.7
(4.7)	3.1 -1.0		10.7 -7.6
(3.1)	3.5 -0.4	(4.7)	11.0 -7.9
	5.3 -2.2	(3.1)	11.0
	6.0 -2.9		11.1 -8.0
1+00	8.8 -5.7	50	11.1
	8.0 -4.9		11.2 -8.1
	7.0 -3.9		11.8 -8.7
	8.3 -5.2		11.5 -8.4
			11.1 -8.0
1+90	8.9 -5.3	3+00	11.2 -8.1

SOUNDINGS OF SLOPES - EAST HALF 10-24-47
 TIERRA DEL FUEGO
 99+00

10-24-47 (22)

Sta 99+00

~~0+00 = STA-99+00 ON W/CAUSEWAY 1/4 SECT. AT 81° 26' TO E/A~~

Sta + Ht ~~FX~~ Elev

STA	+	Ht.	-	ELEV	E 730	16.65	10.7	5.9
T.B.M	1.20	16.65		11.95	E 745		9.6	7.0
E 42			4.7	11.9	E 780		11.3	5.3
E 70			5.1	11.5	E 845		12.8	3.8
E 100			5.9	10.7				
E 121			6.8	9.8				
E 165			6.8	—				
E 205			7.7	8.9				
E 250			8.1	8.5				
E 310			8.8	7.8				
E 360			9.4	7.2				
E 410			9.8	6.8				
E 490			10.4	6.2				
E 560			10.8	5.8				
E 620			11.1	5.5				
E 675			10.6	6.0				

Index

10-24-47

PX Sta 100+00

0+00 = Sta 100+00 W. Causeway Bl. Scot. 100

Sta	+	HI	-	Elev
TBM	5.10	16.83		11.73
E 910			13.1	3.7
E 885			11.9	4.9
E 835			10.3	6.5
E 820			11.0	5.8
E 780			11.7	5.1
E 775			9.2	7.6
E 770			11.3	5.5
E 743			12.2	4.6
E 730			13.5	3.3
E 722			13.3	3.5
E 4+50			11.4	5.4
E 4+40			8.8	8.0
E 4+30			7.2	9.6
E 4+26			9.3	7.5
E 3+90			8.7	8.1

Sta
99+00

10-24-47

100+00

PX

STA.	+	HI.	-	ELEV
E 3+40		16.83	7.4	9.4
E 2+80			7.2	9.6
E 2+75			7.4	9.4
E 2+65			7.4	—
E 1+70			6.8	10.0
E 1+32			6.7	10.1
E 0+80			6.0	10.8
E 0+50			5.9	10.9
E 0+12			4.9	11.9

(28)

101+00

0+00 = STA - 101+00 w/ CAUSEWAY B/L:

STA	+	H.I.	-	ELEV
T.B.M	4.66	16.91		12.25
E 0+92			4.8	12.1
E 0+55			5.6	11.3
E 0+93			6.1	10.8
E 1+95			6.5	10.4
E 2+03			6.8	10.1
E 2+92			7.2	9.7
E 2+80			7.0	9.9
E 3+15			6.7	10.2
E 3+48			6.9	10.5
E 3+55			9.5	7.4
E 3+60			11.2	5.7
E 3+70			13.0	3.9

102+00

0+00 = STA - 102+00 w/ CAUSEWAY B/L:

STA	+	H.I.	-	ELEV
T.B.M	4.72	16.96		12.24
E 1+30				13.0
E 3+50			11.9	5.5
E 3+90			6.1	10.8
E 3+90			6.1	—
E 3+55			6.6	10.3
E 3+30			7.1	9.8
E 3+25			6.9	10.5
E 3+20			5.7	11.2
E 3+52			5.1	11.8
E 3+92			4.8	12.1

SOUNDINGS ON EAST HALF TIERRA DEL FUEGO ISLAND

PX

STA-80+00

0+00 = STA-80+00 W/CAUSEWAY B/K. SOUND EAST

DIST	SOUND	DIST	SOUND
0+00	2.6 +3.7	1+10	12.5 -6.2
	6.8 -0.5		11.8 -5.6
08:50	11.5 -5.2 (6.3)		11.0 -4.7
(6.3)	13.0 -6.7		10.2 -3.9
	13.1 -6.8	50	9.2 -2.9
50	13.8 -7.5	2+00	10.7 -4.4
	13.5 -7.2		10.0 -3.7
	12.5 -11.2		11.6 -5.2
	12.6 -11.3		13.0 -6.7
	17.2 -10.9	2+00	13.1 -6.6
1+00	12.0 -10.7	50	14.3 -8.0
	16.0 -9.7		13.7 -7.4
	19.7 -8.4		14.7 -7.4
	13.8 -7.5		15.0 -8.7
1+00	13.0 -6.7	50	15.0 -8.7

DIST	SOUND	DIST	SOUND
80+00	15.8 -9.5	4+10	10.5 -4.2
3+00	15.8 -9.5	4+90	10.2 -3.9
(6.3)	15.6 -9.3	08:55	
	14.2 -7.9	(6.3)	
5+00	15.6 -9.3		
50	15.9 -9.6		
	13.5 -9.2		
	15.3 -9.0		
	12.8 -6.5		
50	12.4 -6.1		
4+00	11.8 -5.5		
	11.3 -5.0		
	16.2 -4.9		
	12.4 -5.1		
4+00	11.5 -5.2		
50	12.3 -6.0		
	11.5 -5.2		
X	10.7 -4.3		

10-30-47

PX STA-97+00

0+00 = $\begin{cases} 571-97+00 \\ 11-13270.0 \end{cases}$ SOUND EAST AT 90° TO T/P.

DIST	SOUND		DIST	SOUND	
0+00	3.0	+3.5	1+60	3.0	+3.5
10	2.7	+3.8		3.0	—
09:15	2.8	+3.7	(6.5)	3.0	—
(6.5)	2.8	—		3.0	—
	2.8	—	2+00	3.1	+3.4
50	2.8	—		3.1	—
	2.8	—		3.2	+3.3
	2.8	—		3.4	+3.1
	2.8	—		4.0	+2.5
	2.9	+3.6	50	5.1	+1.4
1+00	2.8	+3.7		5.7	+0.8
	2.9	+3.6		5.6	+0.9
	2.8	+3.7	09:20	5.5	+1.0
	2.8	—		5.8	+0.7
	2.8	—	3+00	5.5	+1.0
1+50	2.8	—	3+10	5.2	+1.3

10-30-47

97+00

DIST	SOUND		DIST	SOUND	
3+20	5.0	+1.5	5+00	9.0	
	4.9	+1.6			
(6.5)	4.5	+2.0	0+10	2.9	+3.6
50	4.4	+2.1	120	3.0	+3.5
	4.5	+2.0	09:27	3.2	+3.3
	5.0	+1.5	(6.5)	3.1	+3.4
	5.4	+1.1	50	3.1	—
	6.5	+1.0		3.2	+3.3
4+00	7.5	-1.0		3.2	—
	8.6	-2.1		3.2	—
	8.0	-1.5		3.3	+3.2
	8.4	-1.9	1+00	3.3	—
	8.4	—		3.4	+3.1
50	8.4	—		3.5	+3.0
	8.8	-2.3		3.4	+3.1
	9.0	-2.5		3.3	+3.2
	9.0	—	50	3.4	+3.1
1+30	9.1	-2.6	1+60	3.5	+3.0

(37)

97+00		10-30-17	
DIST	SOUND	DIST	SOUND
1+20	3.9 + 3.1	3+50	4.1 + 2.4
09:30	3.6 + 2.9	09:33	4.0 + 2.5
	3.7		
	3.6 + 2.8		3.5 + 3.0
2+00	3.9 + 2.6	(6.5)	3.3 + 3.2
(6.5)	4.0		
	4.0 + 2.5		3.3
	3.9 + 2.6	4+00	3.4 + 3.1
	3.9		3.4
	4.0 + 2.5		3.1
50	4.0		3.3 + 3.2
	4.0		3.2 + 3.3
	4.1 + 2.4	50	3.2
	4.2 + 2.3		3.1 + 3.4
	4.2		3.0 + 3.5
3+00	4.1 + 2.4	09:35	3.0
	4.1		3.0
	4.1	5+00	2.9 + 3.6
	4.1		2.9
3+40	4.1	5+20	2.9

(RESOUND) EAST 98+00		10-30-17	
DIST	SOUND	DIST	SOUND
SOUND EAST AT 90° TO R/L.			
0400	3.5	1+60	5.0 + 1.5
05:43	3.5 + 3.0		5.0
	3.5	(6.5)	5.0
(6.5)	3.5		5.0
	3.7 + 2.8	2+00	5.0
50	3.3 + 2.6		5.0
	4.0 + 2.5		5.0
	4.3 + 2.2		5.0
	4.7		4.9 + 1.6
	4.3	50	4.9
1+00	4.3		4.9
	4.1 + 2.1		4.8 + 1.7
	4.1		4.7 + 1.8
	4.8 + 1.7	09:47	4.7
	4.9 + 1.6	09:47	4.7
	5.0 + 1.5	3+00	4.7
1+50		3+10	4.7

98+00			10-30-17			98+00			10-30-17		
DIST	SOUND		DIST	SOUND		DIST	SOUND		DIST	SOUND	
3+20	4.6	+1.9	SOUND WEST (SAME 0+00)			1+80	4.0	+2.5	3+60	3.8	+2.7
	4.5	+2.0	0+10	3.7	+3.1		4.0	—		3.8	—
(6.5)	4.5	—		3.7	—	2+00	4.0	—	(6.5)	3.8	—
50	4.5	—	09:54	3.7	—	(6.5)	4.0	—		3.7	+2.8
	4.5	—	(6.5)	3.7	—		4.1	+2.4	1+00	3.5	+3.0
	4.6	+1.9	50	3.7	—		4.1	—		3.7	+3.1
	4.6	—		3.7	—		4.1	—		3.7	—
	4.7	+1.8		3.5	+3.0	50	4.1	—		3.7	—
4+00	4.9	+1.6		3.5	—		4.2	+2.3		3.7	—
	5.2	+1.3		3.6	+2.9		4.1	+2.4	50	3.7	—
	5.5	+1.0	1+00	3.6	—		4.1	—		3.7	—
	5.5	—		3.7	+2.8		4.0	+2.5		3.7	—
	5.2	+1.3		3.8	+2.1	3+00	4.0	—		3.7	—
50	5.1	+1.4		3.9	+2.6		4.0	—		3.7	—
	5.2	+1.3		4.0	+2.5		4.0	—	5+00	3.7	—
	5.5	+1.0	50	4.0	—		4.0	—		3.7	—
03:43	6.0	+0.5		4.0	—		4.0	—	05:58	3.7	—
	6.6	-0.1		—	—		—	—		—	—
5+00	7.0	-0.5	1+70	4.0	—	3+50	3.9	+2.6	5+34	3.3	+3.2

(Re SOUND)
101+00

10-30-47

0+00=PT. 350' E/STA-101+00 W/CAUSEWAY 1/4' SOUND EAST

DIST	SOUND	DIST	SOUND
0+10	0.0 +6.4	1+70	3.7 +2.7
+20	2.0 +4.4		3.7 —
10:15	2.9 +3.5 (6.4)		3.8 +2.6
(6.4)	3.3 +3.1	2+00	3.8 —
50	3.5 +2.9		3.8 —
	3.6 +2.8		3.8 —
	3.7 +2.7		3.8 —
	3.8 +2.6		3.8 —
	3.8 —	50	3.8 —
1+00	3.8 —		3.8 —
	3.8 —		3.8 —
	3.8 —		3.9 +2.5
	3.8 —		3.9 —
	3.8 —	3+00	3.9 —
50	3.8 —		3.9 —
1+60	3.8 —	3+20	3.9 —

101+00

10-30-47

(39)

DIST	SOUND	DIST	SOUND
3+30	3.9 +2.5	5+10	2.0 +4.4
10:21	3.9 —		0.7 +5.7
50	3.9 —	(6.4)	0.5 +5.9
	3.9 —	10:23	0.5 —
	3.9 —	STAKE	
(6.4)	3.9 —	5+50	
	3.9 —	0+00=PT. 550' E/STA-101+00 W/1/4'.	
	3.9 —	SOUND EAST	
	4.0 +2.4	0+00	1.0 +5.2
4+00	4.0 —		0.6 +5.6
	4.0 —	10:40	0.5 +5.7
	4.0 —	(6.2)	0.5 —
	4.0 —		1.0 +5.2
	4.0 —	50	1.1 +4.8
50	4.0 —		2.0 +4.2
	3.9 +2.5		3.0 +3.2
	3.9 —		3.7 +2.5
	3.9 —		4.0 +2.2
	3.9 —	1+00	4.4 +1.8
5+00	3.3 +3.1	1+10	4.5 +1.7

101+00			10-30-47			101+00			10-30-47		
DIST	SOUND		DIST	SOUND		DIST	SOUND		DIST	SOUND	
1720	4.5	+1.7	3+00	4.1	+2.1	4+80	4.0	+2.2	6+60	5.5	+0.6
	4.0	+2.2		4.0	+2.2		4.0	—		5.5	—
(6.2)	4.0	—	(6.2)	4.0	—	5+00	4.0	—	(6.1)	5.5	—
50	4.2	+2.0		4.0	—		3.9	+2.3		6.0	+0.1
	4.2	—		4.1	+2.1	(6.3)	4.1	+2.1	7+00	6.0	—
	4.2	—	50	4.1	—		4.1	—		6.1	0.0
<u>03:42</u>	4.0	+2.2		4.2	+2.0		4.1	—		6.5	-0.4
	4.2	+2.0		4.1	+2.1	50	7.5	+1.7		7.0	-0.9
2+00	4.0	+2.2		4.1	—		7.6	+1.6		7.4	-1.3
	4.0	—		4.0	+2.2		7.8	+1.4	50	7.5	-1.4
	4.0	—	4+00	4.0	—		5.0	+1.2		7.5	—
	4.0	—	<u>10:45</u>	4.0	—		5.0	—		7.0	-0.9
	4.0	—		4.2	+2.0	6+00	5.0	—		7.5	-1.4
50	4.0	—		4.1	+2.1	(6.2)	5.0	—		7.8	-1.7
	4.0	—		4.1	—	<u>10:48</u>	5.2	+1.0	8+00	7.8	—
	4.1	+2.1	50	4.1	—	(6.1)	5.5	+0.6		7.8	—
	4.2	+2.0		4.1	—		5.5	—		7.8	—
2+90	4.2	—	4+70	4.1	—		5.5	—	10:52	7.8	—
									03:42	7.5	-1.4
									8+50	7.3	-1.2
									8+60	7.2	-1.1

ORIGINAL SOUNDINGS PROJ. #3-1 - PATERA ISLAND

STA-128+00

PX

STA-127+00

0+00=STA-128+00 ON PATERA ISLAND SOUND EAST AT 90° TO B/L

0+00=STA-127+00 ON PATERA ISLAND SOUND EAST AT 90° TO B/L

DIST SOUND

DIST SOUND

	DIST	SOUND		DIST	SOUND	
0+00	1.9	+1.4	1+50	2.5	+0.8	
	1.9	—	(3.3)	2.5	—	
1+08	1.9	—		2.5	—	
(3.3)	2.2	+1.1		2.6	+0.7	
P.D.-	2.0	+1.3		2.8	+0.5	
50	2.0	—	2+00	2.9	+0.4	
	1.9	+1.4		2.6	+0.7	
	1.9	—		2.9	+0.9	
P.D.-	2.0	+1.3		2.7	—	
	2.1	+1.2		2.7	—	
1+00	2.1	—	50	2.5	+0.8	
	2.2	+1.1		2.5	—	
	2.3	+1.0		2.5	—	
	2.4	+0.9	1+13			
1+10	2.5	+0.8	3+00			

Indexed

ORIGINAL

BARRAGAN
SNEPPS
STANLEY1-25-48
CLEAR
DARK
CALM

SOUNDINGS OF BORROW AREA ADJOINING

APPROACH CHANNEL SECT. "C" PROJ. 3-1

(ALL SECTIONS AT 90° TO OFFSET LINE)

PX
STA-40+00

0+00 = STA-40+00 ON 700' SECT. "C" B/L OFFSET

SOUND SOUTHEAST

DIST	SOUND	DIST	SOUND
0+00	6.5 -0.5	1+30	6.1 -0.1
+10	6.5 —	(6.0)	6.5 -0.5
<u>11:19</u>	6.3 -0.3	50	6.1 -0.1
(6.0)	6.0 0.0		6.1 —
	6.0 —		6.3 -0.3
50	6.0 —		6.3 —
	6.0 —		6.3 —
	5.8 +0.2	2+00	6.2 -0.2
	6.0 0.0		6.3 -0.3
	6.3 -0.3		7.0 -1.0
1+00	6.3 —		7.2 -1.2
	6.0 0.0		7.1 -1.1
1+20	6.0 —	2+50	6.8 -0.8

STA-40+00 1-29-48

DIST	SOUND	DIST	SOUND
2+60	6.8 -0.8	4+70	7.2 -1.2
	7.0 -1.0	50	7.2 —
(6.0)	7.1 -1.1		7.2 —
	7.0 -1.0	(6.0)	7.0 -1.0
3+00	6.8 -0.8		7.1 -1.1
	7.1 -1.1		7.1 —
	7.2 -1.2	5+00	7.2 -1.2
	7.2 —		7.2 —
	7.3 -1.3		7.0 -1.0
50	7.2 -1.2		7.0 —
	6.9 -0.9		7.0 —
	7.1 -1.1	50	7.1 -1.1
	7.0 -1.0		7.3 -1.3
	7.1 -1.1		6.9 -0.9
4+00	7.0 -1.0		7.0 -1.0
<u>8:21</u>	7.0 —		7.2 -1.2
	7.0 —	6+00	7.0 -1.0
4+30	7.1 -1.1	6+10	14.0 -8.0

mult (37)

STA-90+00

DIST	SOUND	DIST	SOUND
6+20	20.2	-14.2	
	23.0	-17.0	
(6.0)	22.5	-16.5	
50	22.0	-16.0	
	21.8	-15.8	
<u>11:26</u>	21.8	—	
	21.7	-15.4	
	21.0	-15.0	
7+00	20.8	-14.8	

STA-91+00 1-23-78

2448 STA 91+00 ON 700' SECT. 'C' 3/4 OFFSET
SOUND SOUTH EAST

(38)

DIST	SOUND	DIST	SOUND
0+00	12.5	-6.5	1+70 11.9 -5.9
1+10	12.4	-6.4	12.0 -6.0
<u>12:32</u>	12.4	—	(6.0) 11.8 -5.8
(6.0)	12.4	—	2+00 11.8 —
	12.1	-6.1	11.3 -5.3
50	12.1	—	11.0 -5.0
	12.1	—	11.0 —
	12.1	—	11.3 -5.3
	12.1	—	50 11.2 -5.2
	12.2	-6.2	10.8 -4.8
1+90	12.2	—	10.2 -4.2
	12.2	—	10.0 -4.0
	12.2	—	10.1 -4.1
	12.1	-6.1	3+00 9.8 -3.8
	11.8	-5.8	9.8 —
<u>12:35</u>	50	11.7	-5.7 9.8 —
1+60	11.7	—	3+30 9.8 —

STA-41+00

DIST	SOUND	DIST	SOUND
3+90	9.7 - 3.7	5+20	9.9 - 3.4
50	9.6 - 3.6	12:40	9.9 -
12:38	9.4 - 3.4		9.9 -
(6.0)	9.1 - 3.1	50	10.0 - 4.0
	9.1 - 3.4	(6.0)	10.0 -
	9.5 - 3.5	15.1	-9.1
4+00	10.0 - 4.0	22.7	-16.7
	9.8 - 3.8	23.0	-17.0
	9.7 - 3.7	6+00	22.6 - 16.6
	9.7 -	22.0	-16.0
	9.8 - 3.8	21.5	-15.3
50	9.2 - 3.2	21.5	-
	9.7 - 3.7	21.3	-15.3
	9.5 - 3.5	50	21.3 -
	9.5 -	21.0	-15.0
	9.7 - 3.7	21.0	-
5+00	9.1 - 3.1	20.8	-14.8
5+10	9.5 - 3.5	12:43	20.8 -
		7+00	20.8 -

STA-42+00 1-29-78

STA-41+00 ON 700' SECT. "C" B/L OFFSET.
SOUND SOUTH EAST

DIST	SOUND	DIST	SOUND
0+00	9.5 + 1.3	1+70	5.1 + 0.7
4+00	9.9 + 1.4		5.0 + 0.8
12:48	9.9 -	(5.8)	4.5 + 1.3
(5.8)	9.9 -	2+00	4.5 -
	9.9 -		4.5 -
50	9.9 -		4.9 + 1.4
	9.9 -		4.6 + 1.2
	9.9 -		4.5 + 1.3
	9.3 + 1.5	50	4.5 -
	9.3 -		4.5 -
1+00	9.3 -		4.5 -
	9.5 + 1.3		4.5 -
	9.6 + 1.2		4.5 -
12:50	9.9 + 1.4	3+00	4.6 + 1.2
	9.9 -		4.5 + 1.3
50	9.5 + 1.3		4.4 + 1.4
1+50	9.5 -	3+30	4.4 -

STA-72400 1-23-48

DIST	SOUND	DIST	SOUND
3+40	4.5 +1.3		
5.4	5.8 0.0		
12:53	4.5 +1.3		
(5.8)	4.5 —		
	4.5 —		
	5.0 +0.8		
7+00	4.5 +1.3		
	4.4 +1.4		

STA-93400 1-23-48 (70)

STA-73400 ON 700' SECT "C" 1/4 OFFSET
SOUND SOUTHEAST

DIST	SOUND	DIST	SOUND
0+00	3.7 +2.0	1+70	3.0 +2.7
1+00	3.7 —		3.3 +2.4
12:53	3.6 +2.1	(5.7)	3.1 +2.6
(5.7)	2.5 +2.2	2+00	3.3 +2.4
	3.5 —		3.0 +2.7
50	3.5 —		3.0 —
	3.5 —		3.4 +2.3
	3.3 +2.4		3.3 +2.4
	3.2 +2.5	50	3.7 +2.3
	3.2 —		3.3 +2.4
1+00	3.2 —		3.4 +2.3
12:53	3.0 +2.7		3.4 —
	3.1 +2.6	<u>13:03</u>	3.5 +2.2
	3.0 +2.7	3+00	3.5 —
	3.0 —		3.8 +1.9
50	3.1 +2.6		4.5 +1.2
1+00	3.0 +2.7	3+30	3.8 +1.9

STA-43+00			1-23-78		
DIST	SOUND		DIST	SOUND	
3+40	4.0	+1.7	5+20	19.3	-13.6
50	4.0	—		19.5	-13.8
(5.7)	4.0	—	(5.7)	19.0	-13.3
	4.0	—	50	19.0	—
	4.0	—		19.0	—
	4.0	—		19.0	—
7+00	4.0	—		19.0	—
<u>13:05</u>	4.0	—	<u>13:08</u>	19.0	—
	4.6	+1.1	6+00	19.0	—
	4.2	+1.5		19.0	—
	4.2	—		19.1	-13.4
50	4.3	+1.4		19.1	—
	4.3	—		19.2	-13.5
	5.5	+0.2	50	19.2	—
	15.5	-9.8		19.2	—
	20.0	-14.3		19.2	—
5+00	20.9	-14.7		19.8	-14.1
5+10	19.7	-14.0	<u>13:10</u>	19.0	-13.3
			7+00	19.0	—

STA-39+00			1-23-78		
4+00 = STA-39+00 ON 700' SECT. "C" 8 1/2" OFFSET					
SOUND SOUTH EAST					
DIST	SOUND		DIST	SOUND	
0+00	5.0	+0.5	1+20	5.5	0.0
4+00	4.8	+0.7	(5.5)	5.4	+0.1
<u>13:18</u>	5.2	+0.3		5.4	—
(5.5)	5.4	+0.1	<u>13:22</u>	5.4	—
	5.4	—	2+00	5.4	—
	5.4	—		5.7	-0.2
50	5.4	—		6.0	-0.5
	5.3	+0.2		6.2	-0.7
	5.3	—		5.3	+0.2
	5.4	+0.1	50	5.5	0.0
	5.6	-0.1		5.2	+0.3
1+00	5.4	+0.1		5.2	—
	5.4	—		5.5	0.0
	5.4	—		5.5	—
	5.4	—	3+00	5.5	—
	5.4	—		5.4	+0.1
50	5.4	—		5.4	—
1+60	5.4	—	3+30	5.2	+0.3

(7)
PX

STA-33+00			STA-33+00		
DIST	SOUND		DIST	SOUND	
3+00	5.3	+0.2	5+20	5.1	+0.4
50	5.3	—		4.9	+0.6
(5.5)	5.3	—	(5.5)	4.9	—
	5.1	+0.4	50	4.9	—
	5.2	+0.3		4.9	—
	5.2	—		4.9	—
4+00	5.8	-0.3		4.9	—
	5.1	+0.4		4.9	—
	5.3	+0.2	6+00	4.8	+0.7
	5.3	—		4.7	+0.8
	5.1	+0.4		4.7	—
50	5.1	—		4.7	—
<u>13:26</u>	5.1	—		4.9	+0.6
	5.4	-0.1	50	5.0	+0.5
	5.4	+0.1		5.3	+0.2
	5.4	—		4.5	+1.0
5+00	5.0	+0.5		4.8	+0.7
5+10	5.0	—	<u>13:30</u>	4.9	+1.1
			7+00	4.0	+1.5

STA-38+00			STA-38+00		
0+00 = STA-38+00 ON 700' SECT 'C' OFFSET					
SOUND SOUTHEAST					
DIST	SOUND		DIST	SOUND	
0+00	4.5	+0.8	1+70	5.1	+0.2
+10	4.5	—		5.0	+0.3
<u>13:25</u>	4.6	+0.7	(5.3)	4.9	+0.4
(5.2)	4.8	+0.5	2+00	5.0	+0.3
	4.9	+0.4		4.9	+0.4
50	5.0	+0.3		4.9	—
	5.0	—		4.9	—
	5.1	+0.2		5.0	+0.3
	5.1	—	50	4.8	+0.5
	5.1	—	<u>13:40</u>	4.8	—
1+00	5.3	0.0		4.8	—
	5.4	-0.1		4.8	—
	5.4	—		4.8	—
<u>13:28</u>	5.2	+0.1	3+00	4.8	—
	5.3	0.0		4.8	—
50	5.3	—		4.7	+0.6
1+60	5.2	+0.1	3+30	4.7	—

STA-38K00 1-29-48

DIST	SOUND	DIST	SOUND
3+40	4.7 +0.6	5+20	4.5 +0.8
50	4.6 +0.7		4.5 —
(5.3)	5.0 +0.3	(5.3)	4.5 —
	4.5 +0.8	50	4.4 +0.9
	4.5 —		4.5 +0.8
	4.6 +0.7		4.9 +0.4
4+00	4.6 —		4.5 +0.8
	4.5 +0.8		4.5 —
	4.5 —	6+00	4.5 —
	4.9 +0.9	13:45	4.9 +0.9
	4.4 —		4.6 +0.7
50	4.4 —		4.2 —
13:47	4.4 —		4.8 +0.5
	4.4 —	50	4.6 +0.7
	4.4 —		4.6 —
	4.4 —		4.8 +0.5
5+00	5.0 +0.3		4.8 —
5+10	4.6 +0.7		4.4 +0.9
		7+00	4.8 +0.5

STA-37+00 1-29-48 (93)

STA-37+00 ON 700' SECT 'C' B/L. OFFSET
SOUND SOUTH EAST

DIST	SOUND	DIST	SOUND
0+00	4.1 +1.0	1+70	4.7 +0.4
1+00	4.1 —		5.0 +0.1
13:52	4.1 —	(5.1)	4.8 +0.3
(5.1)	4.2 +0.9	2+00	4.8 —
	4.2 —		4.8 —
50	4.3 +0.8		4.8 —
	4.5 +0.6		4.8 —
	4.4 +0.7		5.2 -0.1
	4.4 —	50	4.8 +0.3
	4.5 +0.6		4.7 +0.4
1+00	4.5 —	13:55	4.7 —
	4.5 —		4.6 +0.5
	4.5 —		4.5 +0.6
	4.5 —	3+00	4.5 —
	4.5 —		4.5 —
50	4.5 —		4.5 —
1+00	4.7 +0.4	3+30	4.5 —

STA-32+00			1-22-78		
DIST	SOUND		DIST	SOUND	
3+40	4.5	+0.6	5+20	4.7	+0.4
50	4.5	—		5.0	+0.1
(5.1)	4.4	+0.7	(5.1)	4.7	+0.4
	4.4	—	50	4.5	+0.6
	4.4	—		4.9	+0.7
	4.4	—	<u>19:00</u>	4.4	—
4+00	4.3	+0.8		4.4	—
	4.3	—		4.5	+0.6
	4.4	+0.7	6+00	4.5	—
<u>13:58</u>	4.4	—		4.5	—
	4.3	+0.8		4.5	—
50	4.3	—		4.5	—
	4.3	—		4.5	—
	4.5	+0.6	50	4.5	—
	4.3	+0.8		4.5	—
	4.4	+0.7		4.5	—
5+00	4.4	—		4.5	—
5+10	4.3	+0.8	<u>19:02</u>	4.5	—
			7+00	4.5	—

STA-36+00					1-29-78	
0+00-STA-36+00 ON 700' SECT "C" 3/4 OFFSET					(79)	
SOUND SOUTH EAST						
DIST	SOUND		DIST	SOUND		
0+00	3.8	+1.0	1+20	4.0	+0.8	
+10	3.8	—		3.9	+0.9	
<u>14:08</u>	3.8	—	(4.8)	3.9	—	
(4.8)	4.0	+0.8	2+00	3.9	—	
	3.9	+0.9		3.9	—	
50	3.9	—		4.2	+0.6	
	3.9	—		4.1	+0.7	
	3.9	—		4.0	+0.8	
	3.9	—	50	4.0	—	
	3.9	—		4.0	—	
1+00	3.9	—		4.0	—	
<u>14:10</u>	3.9	—	<u>14:13</u>	4.0	—	
	3.9	—		4.5	+0.3	
	3.9	—	3+00	4.1	+0.7	
	3.9	—		4.0	+0.8	
50	3.9	—		4.2	+0.6	
1+60	3.9	—	3+30	4.6	+0.2	

STA-36+00			1-29-78		
DIST	SOUND		DIST	SOUND	
3+40	4.5	+0.3	5+20	3.8	+1.0
PK 4+50	4.0	+0.8		4.0	+0.8
(4.8)	3.8	+1.0	(4.8)	4.0	—
	3.7	+1.1	50	4.0	—
	3.5	+1.3		4.0	—
	3.7	+1.1		4.0	—
4+00	3.9	+0.9		4.0	—
	3.8	+1.0		4.0	—
	3.7	+1.1	6+00	4.0	—
<u>14:15</u>	3.7	—	<u>14:18</u>	4.1	+0.7
	3.7	—		4.1	—
50	3.7	—		4.1	—
	4.2	+0.6		4.1	—
3+04	3.7	+1.1	50	4.0	+0.8
7+04	3.7	—		4.0	—
8+04	3.7	—		4.0	—
5+00	3.7	—		4.0	—
5+10	3.7	—		4.5	+0.3
			7+00	4.2	+0.6

STA-35+00			1-29-78		
1+00=STA-35+00 ON 700' SECT. "C" 3/4 OFFSET					
SOUND SOUTH EAST			PK		
DIST	SOUND		DIST	SOUND	
0+00	3.1	+1.4	17+00	3.3	+1.2
+10	3.1	—		3.3	(4.8)
<u>14:27</u>	3.1	—	(4.5)	3.3	—
(4.5)	3.1	—	2+00	3.3	—
	3.1	—		3.3	—
	3.1	—	<u>14:30</u>	3.3	—
50	3.1	—		3.3	—
	3.1	—		3.2	+1.3
	3.1	—		3.2	—
	3.2	+1.3	50	3.2	—
	3.1	+1.4		3.3	+1.2
1+00	3.2	+1.3		3.3	—
	3.3	+1.2		3.4	+1.1
	3.4	+1.1		3.6	+0.9
	3.4	—	3+00	3.6	—
	3.3	+1.2		3.2	+1.3
50	3.3	—		3.1	+1.4
1+60	3.3	—	3+30	3.1	—

STA-35+00			1-23-78		
DIST	SOUND		DIST	SOUND	
3+40	3.1	+1.4	5+20	3.3	+1.2
50	3.0	+1.5		3.3	—
(4.5)	3.0	—	<u>14135</u>	3.4	+1.1
	3.1	+1.4	50	3.5	+1.0
	3.1	—	(4.5)	3.5	—
	3.1	—		3.5	—
7+00	3.1	—		3.6	+0.9
	3.2	+1.3		3.7	+0.8
	3.2	—	6+00	3.7	—
	3.2	—		3.6	+0.9
	3.1	+1.4		3.6	—
50	3.2	+1.3		3.5	+1.0
	3.2	—		3.5	—
	3.2	—	50	3.5	—
	3.3	+1.2		3.5	—
	3.3	—		3.6	+0.9
5+00	3.3	—		3.6	—
5+10	3.3	—		3.6	—
			2+00	3.6	—

STA-39+00			1-29-78		
6+00 = STA-39+00 ON 700' SECT. "C" B/W. OFFSET					
SOUND SOUTH EAST			PX		
DIST	SOUND		DIST	SOUND	
0+00	2.7	+1.6	1+70	2.8	+1.5
1+0	2.7	—		2.8	—
<u>14143</u>	2.7	—	(4.3)	2.8	—
(4.3)	2.7	—	2+00	2.8	—
	2.7	—		2.8	—
50	2.7	—		2.9	+1.4
	2.7	—		2.9	—
	2.7	—		2.9	—
	2.7	—		2.9	—
	2.8	+1.5		2.9	—
1+00	2.8	—		2.9	—
	2.8	—		2.9	—
	2.8	—		2.9	—
	2.8	—	<u>14118</u>	2.9	—
<u>14115</u>	2.9	+1.4	3+00	2.9	—
	2.9	—		2.9	—
50	2.8	+1.5		2.9	—
1+60	2.8	—	3+30	2.9	—

STA-34700			1-23-78		
DIST	SOUND		DIST	SOUND	
3+40	2.9	+1.4	5+20	3.2	+1.0
50	2.9	—	(4.2)	3.5	+0.7
(4.3)	2.9	—		3.4	+0.8
	2.9	—	50	3.1	—
	2.9	—		3.4	—
	2.9	—		3.3	+0.9
4+00	3.0	+1.3		3.3	—
	3.0	—		3.3	—
	3.0	—	6+00	3.2	+1.0
(4.3)	3.0	—		3.2	—
14:50	3.0	—		3.2	—
50	3.0	+1.2	14:53	3.2	—
(4.2)	3.1	+1.1		3.4	+0.8
	3.1	—	50	3.6	+0.6
	3.2	+1.0		3.7	+0.5
	3.2	—		3.8	+0.4
5+00	3.2	—		3.9	+0.3
5+10	3.2	—		4.0	+0.2
			7+00	3.8	+0.4

STA-33400			1-23-78		
0+00=STA-33400 ON 700' SECT 'C' B/L OFFSET SOUND SOUTH EAST					
DIST	SOUND		DIST	SOUND	
0+00	2.5	+1.5	1+70	2.3	+1.7
+10	2.5	—		2.3	—
15:00	2.4	+1.6	(4.0)	2.4	+1.6
(4.0)	2.4	—	2+00	2.4	—
	2.5	+1.5		2.4	—
50	2.5	—		2.4	—
	2.5	—		2.4	—
	2.4	+1.6		2.6	+1.4
	2.4	—	50	2.6	—
	2.4	—		2.8	+1.2
1+00	2.4	—		2.9	+1.1
	2.4	—		2.9	—
	2.5	+1.5		2.9	—
	2.5	—	3+00	2.9	—
	2.4	+1.6		2.9	—
15:03	50	2.3	+1.7	2.9	—
1+60	2.3	—	3+30	2.9	—

PX

92

STA-33+00		STA-32+00		1-29-98	
DIST	SOUND	DIST	SOUND	DIST	SOUND
3	3+70	3.0	+1.0	5+20	2.9 +1.1
	50	3.0	—		2.9 —
	<u>15:06</u>	3.0	—		2.9 —
	(4.0)	2.9	+1.1	50	2.9 —
		2.9	—	(4.0)	2.9 —
		2.9	—	<u>15:10</u>	2.9 —
4	7+00	2.9	—	(3.9)	2.9 +1.0
		2.9	—		3.1 +0.8
		2.9	—	6+00	3.1 —
		2.9	—		3.2 +0.7
		2.9	—		3.5 +0.4
	50	2.9	—		3.5 —
	<u>15:08</u>	2.9	—		3.5 —
		2.9	—	50	3.6 +0.3
		2.9	—		3.5 +0.4
		2.9	—		3.4 +0.5
5	5+00	2.9	—		3.4 —
5	5+10	2.9	—	<u>15:13</u>	3.4 —
				7+00	3.2 +0.7

STA-32+00		1-29-98		(98)
2+00 = STA-32+00 ON 700' SECT. "C" B/K OFFSET				
DIST	SOUND	DIST	SOUND	
	0+00	2.2	+1.5	1+70 2.0 +1.7
	40	2.2	—	2.1 +1.6
	<u>15:18</u>	2.1	+1.6	(3.7) 2.2 +1.5
	(3.7)	2.0	+1.7	2+00 2.2 —
		2.0	—	2.3 +1.4
	50	2.0	—	2.4 +1.3
		2.0	—	2.5 +1.2
		2.0	—	2.5 —
		2.0	—	50 2.6 +1.1
		2.0	—	2.8 +0.9
	1+00	2.0	—	3.0 +0.7
	<u>15:21</u>	2.0	—	3.2 +0.5
		2.2	+1.5	3.3 +0.4
		2.0	+1.7	3+00 3.3 —
		2.0	—	3.4 +0.3
	1+50	2.0	—	3.5 +0.2
	1+60	2.0	—	3+30 3.6 +0.1

STA-32+00 (700' B/L OFFSET SECT. "C") 1-22-91

DIST	SOUND		DIST	SOUND	
37+00	3.6	+0.1	5+20	3.7	0.0
50	3.6	—		3.6	+0.1
(3.7)	3.5	+0.2	(3.7)	3.6	—
	3.5	—	50	3.7	0.0
	3.5	—		3.7	—
4+00	3.6	+0.1		3.5	+0.2
4+00	3.6	—		3.3	+0.4
5+00	3.6	—		3.1	+0.6
	3.5	+0.2	6+00	3.0	+0.7
	3.7	0.0		3.0	—
6+00	3.8	-0.1	^{15/23}	3.0	—
50	3.7	0.0		2.9	+0.8
7+00	3.7	—		2.8	+0.9
8+00	3.7	—	50	2.8	—
	3.7	—	7.14	2.7	+1.0
9+00	3.7	—		2.7	—
5+00	3.8	-0.1		2.7	—
5+10	3.9	-0.2		2.8	+0.9
			3+00	2.7	+1.0

FINAL 2-3-18

(43)

SOUNDINGS OF BORROW AREA ADJOINING SOUTH

SIDE CHANNEL SECT. "D" PROJ-3-1 ~~find~~

END SECTION 600' SOUTH STA-19+00 SECT. "D" B/L

0+00 = PT. 600' SOUTH OF STA-19+00 SECT. "D" B/L

SOUND WEST AT 90° FROM THIS PT.

DIST	SOUND		DIST	SOUND	
0+00	3.2	-1.1	1730	16.6	-14.5
110	3.1	-1.0	(2.1)	16.5	-14.4
111	3.0	-0.9	50	16.5	—
(2.1)	3.1	-1.0		16.2	-14.1
	3.1	—	1115	16.0	-13.9
50	3.0	-0.9			
	3.1	-1.0			
	10.0	-7.9	2+00		
	14.5	-12.4			
	15.0	-12.9			
1700	12.1	+15.0			
	17.1	—			
1+20	17.0	-14.9			

END SECTION 900' SOUTH STA-99+00 SECT. "D" B/L.

~~0+00 = PT. 700' SOUTH OF STA-99+00 SECT. "D" B/L.~~

SOUND WEST AT 90° FROM THIS PT.

DIST.	SOUND	DIST.	SOUND
0+00	1.0	+1.0	1+50
+10	1.0	—	
11:22	0.9	+1.1	
(2.0)	1.0	+1.0	
	1.0	—	
50	1.3	+0.7	
	1.0	+1.0	
	8.5	-6.5	
	12.8	-10.8	
	15.3	-13.3	
1+00	16.2	-14.2	
	16.2	—	
	16.9	-14.4	
11:25	16.9	—	
1+10	16.9	—	

STA-98+00

0+00 = STA-98+00 900' SOUTH OF SECT. "D" B/L.

SOUND NORTH

DIST	SOUND	DIST	SOUND		
0+00	1.5	-0.1	1+60	2.0	-0.6
+10	2.0	-0.6		1.8	-0.4
13:58	2.2	-0.8	(1.9)	1.8	—
(1.9)	2.3	-0.9		1.8	—
	2.3	—	2+00	1.7	-0.3
50	2.4	-1.0		2.5	-1.1
	2.5	-1.1		6.7	-5.3
	2.6	-1.2		10.0	-8.6
	2.6	-1.2		13.0	-11.6
	2.5	-1.1	50	13.8	-12.4
1+00	2.5	—	13:53	13.0	-10.6
	2.3	-0.9		12.2	-10.8
	2.0	-0.6		13.0	-11.6
	2.0	—		14.1	-12.7
	2.0	—	3+00	15.8	-14.4
	2.0	—	3+10	15.8	—
1+50	2.0	—			

48+00			2-3-78		
DIST	SOUND		DIST	SOUND	
3+20	19.7	-13.3	5+00	15.5	-14.1
1.9	13.0	-11.6		15.5	—
(1.9)	12.1	-12.0	(1.9)	15.6	-14.2
50	19.4	-13.0		15.2	-13.8
	14.2	-12.8		15.2	—
	14.8	-13.4	50	19.5	-13.1
	14.2	-12.8	<u>13:07</u>		
	19.9	-13.5			
4+00	15.0	-13.6			
	15.3	-13.9			
	13.3	—			
	15.7	-14.3			
	15.7	—			
50	15.5	-14.1			
	15.2	-13.8			
	13.0	-13.6			
	15.2	-13.8			
4+90	15.7	-14.3			

STA-47+00						2-3-78		(51)
STATION 47+00 900' SOUTH OF SECT 2" 3/4.								
SOUND NORTH								
DIST	SOUND		DIST	SOUND		DIST	SOUND	
0+00	2.9	-1.5	1+60	1.9	-0.5			
+10	2.9	—		7.0	-5.6			
<u>13:12</u>	2.1	-1.7	(1.9)	11.8	-10.4			
(1.9)	3.0	-1.6		16.3	-14.9			
	3.0	—	2+00	17.7	-16.3			
50	2.9	-1.5		19.0	-17.6			
	2.8	-1.4		18.7	-17.0			
	2.8	—		18.3	-16.9			
	2.7	-1.3		18.0	-16.6			
	2.6	-1.2	50	17.5	-16.1			
1+00	2.5	-1.1	<u>13:15</u>	16.8	-15.4			
	2.4	-1.0		16.7	-15.3			
	2.2	-0.8		16.7	—			
	2.2	—		16.9	-15.0			
	2.0	-0.6	3+00	16.0	-14.6			
1+50	2.0	—	3+10	15.4	-14.0			

STA-47+00 2-3-78

DIST	SOUND	DIST	SOUND
3+20	15.4	5+00	16.5
	18.2		16.9
	15.4		16.0
(1.4)	16.4	(1.4)	16.0
	13.8		16.0
50	15.4		15.8
	15.4		15.8
	15.4	50	15.8
	15.5		15.8
	15.6		
4+00	15.8		
	15.8		
	15.8	6+00	
	16.0		
	16.2		
50	16.4		
	16.5		
	16.5		
	16.5		
4+90	16.5		

STA-96+00 2-3-78 (52)

900' SOUTH OF SECT. "D" 8/4.

DIST	SOUND	DIST	SOUND
	SOUND NORTH		
	DIST SOUND		DIST SOUND
0+00	2.6	1+60	14.8
+10	2.8		14.0
13:22	3.0		13.0
(1.4)	3.0	(1.4)	12.1
	3.0	2+00	11.7
50	3.0		12.8
	2.9		13.2
	2.7	13:25	19.4
	2.7		22.0
	1.5	50	21.5
1+00	4.3		21.0
	8.5		20.2
	12.4		20.0
	12.5		19.0
	13.1	3+00	18.5
1+50	15.6	3+10	18.5

STA-76+00			2-3-78		
DIST	SOUND		DIST	SOUND	
3+20	18.0	-16.6	5+00	20.3	-18.9
(1.9)	17.5	-16.1		20.3	—
<u>13:27</u>	17.5	—	(1.9)	20.0	-18.6
50	17.5	—		19.8	-18.4
	17.0	-15.6		19.0	-17.6
	17.6	-16.2	50	19.0	—
	17.8	-16.4		18.2	-16.8
	17.3	-15.9		18.2	—
7+00	17.5	-16.1	5+80	18.2	—
	17.8	-16.4	<u>13:31</u>		
	18.0	-16.6			
	18.1	-16.7			
	18.2	-16.8			
50	18.4	-17.0			
	18.6	-17.2			
	19.2	-17.8			
	19.6	-18.2			
7+90	20.1	-18.7			

STA-75+00			2-3-78		
300' SOUTH OF SECT. 20 3/4.					
SOUND	NORTH				
DIST	SOUND		DIST	SOUND	
0+60	3.0	-1.6	1+60	16.0	-14.6
1+0	3.1	-1.7		16.0	—
<u>13:27</u>	3.1	—	(1.9)	16.0	—
(1.9)	3.1	—		16.0	—
	13.0	-11.6	2+00	15.5	-14.1
50	15.9	-14.5		15.8	-14.4
	17.5	-16.1		15.8	—
	18.0	-16.6		15.9	-14.5
	17.5	-16.1		16.0	-14.6
	17.0	-15.6	50	15.8	-14.4
1+00	14.8	-15.4		15.8	—
	14.9	-15.0		15.5	-14.1
	16.4	—		15.5	—
	16.4	—	<u>13:28</u>	15.7	-14.3
	16.2	-14.8	3+00	15.7	—
1+50	16.0	-14.6	3+10	15.7	—

STA-95+00			2-3-78		
DIST	SOUND		DIST	SOUND	
3+20	15.7	-14.0	5+00	17.3	-15.9
	15.7	—		17.5	-16.1
(1.9)	15.4	—	(1.9)	17.7	-16.3
50	15.6	-14.2		17.8	-16.4
	15.1	—		18.0	-16.6
	15.1	-13.7		18.0	—
	15.1	—	50	18.0	—
	15.3	-13.9		18.7	-17.3
	15.6	-14.2		19.0	-17.6
7+00	15.6	—		19.3	-17.9
	15.5	-14.1		19.7	-18.3
	15.6	-14.2	6+00	20.0	-18.6
	15.6	—		20.0	—
	15.8	-14.4		20.0	—
50	17.0	-15.6		19.7	-18.0
<u>13:40</u>	17.2	-15.8		16.5	-15.1
	17.4	-16.0	50	12.5	-11.1
	17.7	—	6+00	12.8	-11.4
7+90	17.5	-16.1	<u>13:43</u>		

STA-99+00			2-3-78		
300' SOUTH OF SECT. D 3/4.					
SOUND NORTH			PX		
DIST	SOUND		DIST	SOUND	
0+00	3.0	-1.5	1+60	17.8	-16.3
4+00	3.0	—		19.0	-17.5
<u>13:42</u>	3.0	—	(1.5)	18.5	-17.0
(1.5)	3.0	—		18.0	-16.5
	3.0	—	2+00	19.0	-17.5
50	3.0	—		19.1	-17.6
	13.1	-11.6		19.1	—
	14.7	-13.2		19.1	—
	12.2	-15.7		19.1	—
	18.0	-16.5	50	19.1	—
1+00	13.7	-16.2		19.0	-17.5
	17.2	-15.7		18.5	-17.0
	16.7	-15.2		18.7	-17.2
	16.0	-14.5		17.9	-16.4
	16.7	-14.9	3+00	18.3	-16.8
1+50	16.8	-15.3	3+10	18.6	-17.1

STA-44+00 2-7-78

DIST	SOUND	DIST	SOUND
3+20	18.5	-17.0	5+00 17.8
	18.5	—	14+00 18.0
13:58	18.5	—	18.0
50	18.5	—	18.0
(1.5)	18.2	-16.7	17.7
	17.6	-16.1	50 17.7
	16.8	-15.3	17.9
	16.8	—	18.0
4+00	17.1	-15.6	18.5
	17.4	-15.9	19.2
	17.7	—	6+00 19.8
	17.7	—	19.0
	17.2	-15.7	18.1
50	17.2	—	19.8
	17.2	—	13.1
	17.2	—	6+50 12.8
	17.0	-15.5	14:03
4+90	17.7	-15.9	

STA-43+00 2-7-78 (65)
 1+00=STA-43+00 900' SOUTH OF SECT. 'D' 8/1.

SOUND NORTH

DIST	SOUND	DIST	SOUND
0+00	3.0	-1.4	17+00 17.3
4+00	3.0	—	17.2
17:03	3.1	-1.5	(1.6) 17.0
(1.6)	3.0	-1.4	17.7
	2.9	-1.3	24+00 17.5
50	3.9	—	17.8
	3.0	-1.4	17.5
	3.0	—	17.5
	2.8	-1.2	14:12 17.5
	2.5	-0.9	50 17.5
14+00	10.0	-8.4	12.7
	13.5	-11.9	12.7
	15.1	-13.5	12.7
	17.5	-15.9	12.2
	17.7	-16.1	3+00 12.0
14:50	17.5	-15.9	3+10 12.0

2-3-98

STA-93+00		STA-93+00		2-3-98	
DIST	SOUND	DIST	SOUND		
3+00	16.7	-15.1	5+00	16.8	-15.2
	16.7	—	14.15	16.9	-15.3
(1.6)	16.5	-14.9		17.0	-15.4
50	16.4	-14.8	(1.6)	17.0	—
	16.4	—		17.0	—
	16.4	—	50	17.0	—
	16.4	—		17.0	—
	16.4	—		17.0	—
4+00	16.4	—		17.0	—
	16.4	—		17.1	-15.5
	16.2	-14.6	6+00	17.1	—
	16.1	-14.5		17.0	-15.4
	16.1	—		16.8	-15.2
50	16.2	-14.6		16.0	-14.4
	16.4	-14.8		14.8	-13.2
	16.5	-14.9	50	14.0	-12.4
	16.5	—		13.5	-11.9
				13.5	—
4+90	16.7	-15.1		13.5	—
			2+00	13.5	-11.8
				13.4	—

2-3-98 (56)

1+000-STA-92+00 200' SOUTH OF SECT. "D" B/L.

STA-92+00		STA-92+00		2-3-98			
SOUND	NORTH	DIST	SOUND	DIST	SOUND		
		0+00	2.0	-0.3	1760	17.9	-16.2
		+10	2.4	-0.7		18.0	-16.3
		14.23	2.8	-1.1	(1.7)	17.5	-15.8
		(1.7)	3.0	-1.3		17.0	-15.3
			3.2	-1.5	2+00	17.0	—
		50	3.0	-1.3		17.0	—
			3.0	—		16.7	-15.0
			2.9	-1.2		16.6	-14.9
			2.7	-1.0		16.8	-15.1
			2.7	—	50	17.5	-15.8
		1+00	2.7	—	14.25	17.5	—
			2.5	-0.8		17.5	—
			2.6	-0.9		17.1	-15.4
			2.7	-6.0		16.6	-14.9
			14.8	-13.1	3+00	16.3	-14.6
		1+50	16.8	-15.1	3+10	16.3	—

STA-12+00		2-3-78		
DIST	SOUND	DIST	SOUND	
3+90	16.7	-15.0	5+00 17.0	-15.3
	16.0	-14.3	17.0	—
	16.0	—	18.1	—
(1.7)	16.0	—	(1.7) 18.4	-16.7
50	15.7	-14.0	19.0	-17.3
	15.7	—	19.1	-17.4
	15.7	—	50 19.2	-17.5
	15.5	-13.8	19.2	—
	15.5	—	18.3	-16.6
4+00	15.5	—	18.0	-16.3
	15.7	-14.0	17.5	-15.8
	15.8	-14.1	17.2	-15.5
	16.0	-14.3	17.2	—
	16.0	—	17.2	—
50	16.1	-14.4	17.1	-15.7
	16.4	-14.7	17.1	-15.4
	16.6	-14.9	50 17.0	-15.3
	17.0	-15.3	17.0	—
	17.0	—	17.0	—
4+90	17.0	—	17.0	—
		19.31	17.0	—
		6+90	17.0	—

2-3-78		(57)	
END SECTION 500' SOUTH OF STA-9+00 SECT. "D" B/L			
0+00 = Pt. 500' SOUTH OF STA-9+00 SECT. "D" B/L			
SOUND EAST		PX	
DIST	SOUND	DIST	SOUND
0+00	1.9	+0.5	—
400	1.0	+0.9	—
17.43	1.0	—	—
(1.9)	1.2	+0.7	—
	0.8	+1.1	—
50	0.8	—	—
	1.0	+0.9	—
	7.0	-5.1	—
	13.1	-11.2	—
	15.1	-13.2	—
1+00	15.7	-13.8	—
	15.7	—	—
	15.8	-13.9	—
	15.8	—	—
	16.0	-14.1	—
1+50	16.1	-14.2	—

2-3-78

FINAL

2-19-78

(58)

END SECTION 700' SOUTH OF STA-71+00 SECT. D" 2/4.

X-SECTIONS OF CENTER ISLAND PATERA GROUP

0+002 PT. 700' SOUTH OF STA-71+00 SECT. D" 2/4.

~~PX~~
SOUND EAST

	DIST	SOUND	DIST	SOUND
	0+00	2.5	-0.6	
	+10	2.0	-0.1	
	<u>14:50</u>	2.0	-	
	(1.9)	2.0	-	
		2.2	-0.3	
	50	2.0	-0.1	
		1.8	+0.1	
		3.5	-1.6	
	12.0	-10.1		
	15.2	-13.3		
	17.00	17.1	-15.2	
		17.2	-15.3	
		17.1	-15.1	
		17.3	-15.4	
		17.3	-	
	17.3	-		
	17.50	-		

STA-118+00

	DIST	+ H.I.	- ELEV	TIDE AT
	5.95	8.30	(2.35)	10:10
	E-0+11		6.0	
	0+00		4.9	
	W-0+30		3.8	
	W-0+86		3.5	
	W-1+62		3.4	
	W-1+95		3.7	
	W-2+10		4.4	
	W-3+83		5.5	

NOTE
NOT COMPLETE

OF APPROACH		FINAL	CHANNEL SECTION -		BARRAGAN SHERRY STANLEY	2-29-18 LIGHT WIND COOL CLEAR	DIST	SOUND	STA-28+00	2-29-18	DIST	SOUND
- "B" -	PROJ-	#	3-1				2+80	14.7	-8.4			PX
			STA-	28+00				14.8	-8.5			
0700	STA-28+00	SECT.	"B" 3/4	SOUND EAST AT 90° To 1/4			3+00	14.8	—			
	DIST	SOUND		DIST	SOUND		(6.3)	14.6	-8.3			
0700	4.6	+1.7	14+00	15.0	-8.7			14.9	-8.1			
	110	4.6	—	50	15.0	—		13.5	-7.2			
	10:50	4.7	+1.6	(6.3)	15.1	-9.1						
	(6.3)	4.7	—		15.1	—	60	5.0	+1.3			
		4.7	—		15.2	-9.0		5.0	—			
	50	4.7	—		15.2	—		4.8	+1.5			
		4.7	—	2+00	15.2	-8.9		4.8	—			
		4.8	+1.5		15.2	—		4.8	—			
		4.8	—		15.2	—	9+00	5.0	+1.3			
		4.9	+1.4		15.0	-8.7	11:00					
	1+00	9.0	-2.7		15.0	—						
		13.9	-7.6	50	14.9	-8.6						
		14.4	-8.1		14.8	-8.5						
	1+30	14.7	-8.4	2+90	14.7	-8.4						

Indexed

2-29-18

STA- 27+00

0700 = STA- 27+00 SECT 'B' 8/4: SOUND EAST

DIST SOUND DIST SOUND

0+00 9.9 +1.7 1760 19.8 -8.7

+10 9.9 — 19.7 -8.6

11:10 9.9 — (6.1) 19.9 -8.3

(6.1) 9.7 — 19.5 -8.4

9.9 — 2700 19.5 —

50 9.9 — 19.8 -8.7

9.6 +1.5 19.7 -8.6

9.0 +2.1 19.6 -8.5

9.0 — 11:13 19.6 —

9.0 — 50 19.5 -8.4

1700 10.0 -3.9 19.5 —

13.6 -7.5 19.5 —

19.3 -8.2 19.4 -8.3

19.3 — 19.9 —

16.6 -10.5 3700 19.2 -8.1

1750 19.8 -8.7 3710 19.2 —

STA-27+00

2-29-18

(60)

DIST SOUND

DIST SOUND

3720 13.1 -7.0

9.7 +1.4

(61) 9.6 +1.5

50 9.6 —

9.5 +1.6

9.5 —

9.6 +1.5

9.6 —

3700 9.7 +1.4

11:15 9.7 +1.4

9.7 +1.4

9.7 +1.4

9.7 +1.4

9.7 +1.4

9.7 +1.4

9.7 +1.4

9.7 +1.4

9.7 +1.4

2-29-78

PX

STA. 26+00

0+00 = STA. 26+00 SECT. 8" B/A; SOUND EAST

	DIST	SOUND		DIST	SOUND
			1760	19.2	-8.2
				19.1	-8.1
11:22			(6.0)	19.0	-8.0
(6.0)				19.0	—
			2+00	19.1	-8.1
50				19.0	-8.0
			11:25	19.1	-8.1
				19.1	—
				19.3	-8.3
			50	19.3	—
1+00				19.3	—
				19.1	-8.1
				19.0	-8.0
				13.9	-7.9
			3+00	19.0	-8.0
1+50			3+10	19.0	—

STA. 26+00

2-29-78

(6)

DIST SOUND

DIST SOUND

3+20 12.0 -6.0

4.3 +1.7

(6.0) 4.3 —

50 4.3 —

4.3 —

4.4 +1.6

4.4 —

4.4 —

1+00 4.4 —

11:28

4.4 —

4.4 —

4.4 —

4.4 —

4.4 —

4.4 —

4.4 —

4.4 —

PX

2-24-18

STA-25+00

PT
0+00 = STA-25+00 SECT. "B" B/L: SOUND EAST.

	DIST	SOUND		DIST	SOUND
	0+00	3.5	+2.2	1+60	14.5 -8.8
	+10	3.5	—		14.3 -8.6
	<u>11:32</u>	3.1	+2.6	(5.7)	14.8 -9.1
	(5.7)	3.0	+2.7		14.8 —
		3.0	—	2+00	14.0 -8.3
	50	2.9	+2.8		13.9 -8.2
		2.9	—		15.0 -9.3
		3.1	+2.6		14.6 -8.9
		4.0	+1.7		14.7 -9.0
		8.7	-3.0	50	14.5 -8.8
	1+00	13.0	-7.3		14.2 -8.5
		13.0	—		13.7 -8.0
		13.4	-7.7		14.0 -8.3
		13.4	—		13.7 -8.0
		13.7	-8.0	3+00	13.1 -7.4
	1+50	14.0	-8.3	3+10	11.5 -5.8

25+00

DIST SOUND

3+20 3.8 +1.9

4.0 +1.7

(5.7) 3.8 +1.9

50 3.8 —

3.9 +1.8

3.8 +1.9

3.8 —

3.8 —

4+00 3.8 —

11:37

2-27-18

DIST SOUND

(62)

PT

PX

STA- 29+00

0+00=STA-29+00 SECT. "B" B/L: SOUND EAST

	DIST	SOUND		DIST	SOUND
0+00	4.6	-0.2	1760	13.4	-8.0
+10	4.6	—	12:48	12.2	-7.8
12:45	3.0	+1.4	(4.9)	12.3	-7.9
(4.9)	2.7	+1.7		12.4	-8.0
	2.4	+2.0	2+00	12.5	-8.1
50	2.4	—		12.4	-8.0
	2.5	+1.9		12.4	—
	2.2	+2.2		12.7	-8.3
	2.4	+2.0		12.5	-8.1
	2.4	—	50	12.3	-7.9
1700	6.5	-2.1		12.3	—
	11.6	-7.2		12.4	-8.0
	12.0	-7.6		12.4	—
	12.0	—		12.4	—
	12.0	—	3+00	12.1	-7.7
1750	12.1	-7.7	3+10	11.7	-7.3

PX (5)

STA- 29+00

DIST SOUND DIST SOUND

	DIST	SOUND		DIST	SOUND
3+20	6.7	-2.0			
	2.8	+1.6			
(4.9)	3.0	+1.4			
50	3.0	—			
	2.9	+1.5			
	2.9	—			
	2.8	+1.6			
	2.8	—			
4+00	2.8	—			

12:52

PX

STA-23+00

0+00=STA-23+00 SECT. "B" B/L. SOUND EAST

	DIST	SOUND		DIST	SOUND
0+00	6.2	-2.1	1760	11.9	-7.8
+10	6.2	—		12.3	-8.2
(4.1)	6.2	—	(4.1)	12.0	-7.9
	7.5	-0.4		12.0	—
	7.0	+0.1	2+00	12.0	—
50	3.2	+0.9		12.0	—
	3.2	—		12.6	-8.5
	3.7	+0.7		13.0	-8.9
	3.4	—		12.8	-8.7
	4.1	0.0	50	12.6	-8.5
1+00	6.0	-1.9		12.6	—
<u>12:57</u>	10.8	-6.7		12.7	-8.6
	12.0	-7.9		13.1	-9.0
	12.0	—		13.1	—
	12.1	-8.0	3+00	13.1	—
1+50	12.1	—	3+10	12.7	-8.3

STA-23+00 2-24-78

(6)

DIST SOUND DIST SOUND

3+20	9.5	-5.4			
	2.0	+2.1			
(4.1)	1.9	+2.2			
50	1.9	—			
	2.0	+2.1			
	2.4	+1.7			
	2.7	—			
	2.2	+1.9			
4+00	2.2	—			

PX

2-27-48

STA-22700

0700-STA-22700 SECT. B" 8/4: SOUND EAST.

DIST SOUND

DIST SOUND

0700 4.0 0.0 1760 12.0 -8.0

710 5.8 -1.8 12.4 -8.4

13:07 6.0 -2.0 (4.0) 12.1 -8.1

(4.0) 6.2 -2.2 12.0 -8.0

6.3 -2.3 2700 11.9 -7.9

50 6.4 -2.4 11.6 -7.6

6.0 -2.0 13.8 -9.8

5.8 -1.8 13.2 -9.2

4.6 -0.6 13.2 —

4.0 0.0 50 12.9 -8.7

1700 6.1 -2.1 12.5 -8.5

11.5 -7.5 12.4 -8.4

10.3 -6.3 12.4 —

11.4 -7.4 13:10 12.4 —

11.8 -7.8 3700 12.4 —

1750 11.8 — 3710 11.8 -7.8

STA-22700

2-27-48

DIST SOUND

DIST SOUND

3720 6.0 -2.0

3.2 +0.8

(4.0) 1.0 +3.0

50 1.0 —

4700

(5)

STA-21+00
 DIST SOUND DIST SOUND
 0+00 STA-21+00 SECT. "B" 3/4" SOUND EAST
 DIST SOUND DIST SOUND
 0+00 2.9 +1.3 1760 12.1 -8.4
 +10 2.5 +1.2 12.2 -8.5
 (3.7) 2.5 — (3.7) 12.1 -8.4
 2.7 +1.0 12.2 -8.5
 3.3 +0.4 2+00 12.1 -8.4
 50 4.0 -0.3 12.0 -8.3
 5.2 -1.5 13.2 -9.5
 6.0 -2.3 13.6 -9.9
 6.6 -2.9 13.5 -9.8
 13:20 6.7 -3.0 50 13.5 —
 1+00 7.0 -3.3 13.3 -9.6
 7.4 -3.7 13.3 —
 12.0 -8.3 13.4 -9.7
 11.7 -8.0 13.4 —
 12.8 -9.1 3+00 13.0 -9.3
 1+50 12.0 -8.3 3+10 12.5 -8.8

STA-21+00 2-29
 DIST SOUND DIST SOUND
 3+20 7.0 -3.3
 2.5 +1.2
 (3.7) 0.4 +3.3

50
 13:22

(66)

FX

PX		STA- 20+00		DIST SOUND		DIST SOUND	
0+00	STA-20+00 SECT. "B" 8/4	SOUND	EAST.	3+20	9.0	-5.5	PX
	DIST	SOUND	DIST	SOUND	1.0	+2.5	
0+00	2.1	+1.4	1+60	12.1	-8.6	(3.5)	0.5 +3.0
+10	2.1	—		11.8	-8.3	50	
13:28	2.1	—	(3.5)	11.5	-8.0	13:32	
(3.5)	2.1	—	13:30	11.5	—		
	2.0	+1.5	2+00	11.4	-7.9		
50	2.0	—		12.6	-9.1		
	2.0	—		12.6	—		
	3.1	+0.4		12.8	-9.3		
	3.7	-0.2		12.8	—		
	4.8	-1.3	50	12.5	-9.0		
1+00	6.2	-2.7		12.3	-8.8		
	9.6	-6.1		12.0	-8.5		
	12.0	-8.5		12.0	—		
	12.0	—		11.7	-8.2		
	12.0	—	3+00	11.7	—		
1+50	12.0	—	3+10	11.5	-8.0		

2-29-18

STA-19+00

2-29-18

(68)

STA-19+00

DIST SOUND

DIST SOUND

0+00=STA-19+00 SECT. 18" 8/4. SOUND EAST

3+20 8.9 -5.5

DIST SOUND

DIST SOUND

1.0 +2.4

0+00 2.0 +1.4 1+60 12.1 -8.7

(3.9) 0.4 +3.0

+10 2.0 — 12.0 -8.6

50

13:31 2.0 — (3.9) 11.7 -8.3

13:33

(3.9) 2.0 — 11.2 -7.8

2.0 — 2+00 11.1 -7.7

50 2.0 — 11.6 -8.2

2.0 — 12.0 -8.6

2.0 — 11.7 -8.3

2.0 — 11.9 -8.0

2.4 +1.0 50 11.9 —

1+00 9.4 -1.0 11.9 —

9.8 -6.4 11.1 -7.7

11.7 -8.3 11.0 -7.6

12.2 -8.8 10.7 -7.3

12.2 — 3+00 10.7 —

1+50 12.2 — 3+60 10.6 -7.2

FINAL?

2-27-98

SOUNDINGS OF BORROW AREA NORTH OF AND

ADJOINING CHANNEL SECT. "C"

STA - 91+00

0+00 = STA - 91+00 700' NORTH OF SECT. "C" B/A

DIST	SOUND	DIST	SOUND
3+00	7.0 -4.0	4+90	6.8 -3.8
4+10	7.1 -4.1	50	6.8 —
11+00	6.7 -3.7	(3.0)	6.2 -3.2
(3.0)	6.8 -3.8	6.0	-3.0
	6.9 -3.4	5.7	-2.7
50	6.9 —	5.4	-2.4
	6.1 -3.1	5+00	5.5 -2.5
	6.2 -3.2	6.8	-3.8
	6.5 -3.5	7.0	-4.0
	6.5 —	7.3	-4.3
4+00	6.8 -3.8	7.4	-4.4
	6.8 —	50	7.0 -4.0
	6.8 —	7.1	-4.1
7+30	6.8 —	5+70	12.6 -9.6

STA - 91+00

2-27-98

DIST	SOUND	DIST	SOUND
5+80	15.5 -12.5	7+60	17.3 -14.6
	18.5 -15.5	18.5	—
6+00	18.5 —	(2.9)	17.3 -14.4
	18.3 -15.3	18.0	-15.1
	18.1 -15.1	8+00	18.8 -15.9
	18.0 -15.0	18.8	—
	18.0 —	18.8	—
50	18.1 -15.1	18.9	-16.0
(3.0)	17.8 -14.8	19.0	-16.1
(2.9)	17.8 -14.9	50	19.0 —
	17.7 -14.8	19.3	-16.4
19+05	17.5 -14.6	19.2	-16.3
7+00	17.6 -14.7	18.8	-15.9
	17.5 -14.6	19+07	18.8 —
	17.4 -14.5	9+00	18.8 —
	17.4 —	18.8	—
	17.4 —	18.8	—
7+50	17.4 —	9+30	18.5 -15.6

STA-91+00 2-21-18

DIST	SOUND	DIST	SOUND
9+40	18.7 -15.4		
50	18.1 -15.2		
(2.9)	18.0 -15.1		
	18.0 —		
	18.0 —		
	18.0 —		
10+00	18.5 -15.6		
	18.8 -15.9		
	19.0 -16.1		
	18.7 -15.8		
	18.2 -15.3		
50	17.8 -14.9		
	17.2 -14.3		
	17.0 -14.1		
	17.0 —		
19:10	17.0 —		
11+00	17.0 —		

STA-40+00 2-21-18 (70)

0+00 = STA-40+00 200' NORTH OF SECT 'C' B/L: SOUND S/E

DIST	SOUND	DIST	SOUND
4+00	4.9 -1.8	5+60	10.0 -7.4
4+10	4.4 —		15.4 -12.8
4+22	4.0 -1.4	(2.6)	18.4 -15.8
(2.6)	3.9 -1.3		19.0 -16.4
	4.0 -1.4	6+00	18.1 -15.5
50	4.0 —		17.8 -15.2
	3.9 -1.3		18.0 -15.4
	4.0 -1.4		18.3 -15.7
	3.9 -1.3		18.9 -16.3
	4.0 -1.4	50	18.2 -15.6
5+00	4.0 —		18.4 -15.8
	4.1 -1.5		18.4 —
	4.5 -1.9		18.8 -16.2
	4.2 -1.6		18.8 —
	4.4 -1.8	7+00	18.8 —
5+50	4.4 —	7+10	18.7 -16.1

STA-40+00		2-29-18	
DIST	SOUND	DIST	SOUND
7+20	18.3	-15.7	9+00 10.7 -8.1
	18.1	-15.5	10.9 -8.3
(2.6)	18.0	-15.4	(2.6) 11.0 -8.4
50	18.0	—	10.7 -8.1
	18.2	-15.6	10.7 —
	18.4	-15.8	50 11.0 -8.4
	18.0	-15.4	19.28
	17.7	-15.1	
8+00	17.4	-14.8	
	17.7	-15.1	
	17.1	-14.5	
	17.2	-14.6	
	15.8	-13.2	
50	11.0	-8.4	
	11.6	—	
	10.8	-8.2	
	10.7	-8.1	
8+90	10.7	—	

STA-39+00		2-29-98		(2)
1000=STA-39+00 700' NORTH OF SECT. "C" B/L. SOUND S/E.				
DIST	SOUND	DIST	SOUND	
3+00	2.3	+0.1	7+60	15.2 -12.8
	3.3	—		
	2.3	—		
4+10	3.3	—		15.1 -12.7
19.35	2.2	+0.2	(2.9)	15.2 -12.8
(2.9)	2.6	-0.2		15.3 -12.9
	2.6	—	5+00	15.3 —
50	10.5	-8.1		15.3 —
	16.0	-13.6		15.4 -13.0
	15.7	-13.3		15.8 -13.4
	15.4	-13.0		16.0 -13.6
	15.4	—	50	16.0 —
4+00	15.3	-12.9		15.6 -13.2
	15.4	-13.0		15.4 -13.0
	15.3	-12.9		15.3 -12.9
	15.5	-13.1		15.8 -13.4
	15.4	-13.0	6+00	18.8 -16.4
4+50	15.2	-12.8	6+10	19.0 -16.6

No 6. FILL TRUCK LOAD RECORD
 MON 26 APRIL 48 - RE. HAZARD CO.

FILL #6 TRUCK LOAD RECORD (23)
 TUES 27 APR. 48 - RE. HAZARD CO.

TR. No	YDS.	NO OF LOADS	TOTAL CU. YDS.
78	9 1/2	 ⁹	142.5
D 90	5 1/2	 ³	16.5
D 95	5 1/2	 ⁵	93.5
27	9 1/2	 ⁵	47.5
D 94	5 1/2	 ³	27.5
101	5 1/2	 ²	11
16	9 1/2	 ⁷	104.5
121	5 1/2	 ⁷	66
97	5 1/2	 ³	44
102	5 1/2	 	16.5
96	5 1/2	1	5.5

TOTAL FOR DAY 575

TOTAL TO DATE 575

NOTE
 1 SHOVEL - 8 HRS
 1 CAT-D6 - 8 HRS
 1 DUMP MAN - 8 HRS.
 1 FOREMAN - 8 HRS.

TR. No	YDS	NO. OF LOADS	TOTAL CU. YDS.
D 95	5 1/2	 	88
101 ✓	5 1/2	 	88
92 ✓	5 1/2	1	5.5
D 90 ✓	5 1/2	 	82.5
D 94 ✓	5 1/2	 	88
18 ✓	9 1/2	 	133
121 ✓	5 1/2	 	77
19 ✓	9 1/2	 	66.5
D 16 ✓	9 1/2	1	9.5
96 ✓	5 1/2	 	77
D 93 ✓	5 1/2	 	55
102 ✓	5 1/2	 	55
97 ✓	5 1/2	 	44

TOTAL FOR DAY 869.0

TOTAL TO DATE 1444.0

NOTE
 1 SHOVEL - 8 HRS.
 1 O-7 CAT - 8 HRS.
 1 DUMPMAN - 8 HRS.
 1 FOREMAN - 8 HRS.

FILL #6+7 TRUCK LOAD RECORD
WED. 28 APR. 48 - R.E. HAZARD Co.

TRK. No.	YDS.	No. OF LOADS		TOTAL CU YDS	
		FILL #6	FILL #7	FILL #6	FILL #7
95	5 1/2	III	II	49.5	38.5
093	5 1/2	III	I	55.	33.
97	5 1/2	III	I	55.	33.
101	5 1/2	III	II	44.	16.5
090	5 1/2	III	II	44.	38.5
094	5 1/2	III	I	44.	33.
102	5 1/2	III	II	44.	38.5
19	9 1/2	II	I	66.5	57.0
21	9 1/2	III	II	57.0	66.5
18	9 1/2	III	II	38.0	66.5

TOTAL FOR DAY = 918.0

TODAY #6 497.0 TOTAL TO DATE #6 = 1941.0

TODAY #7 421.0 TOTAL TO DATE #7 = 421.0

PROJECT TOTAL CU YDS TO DATE = 2362.0

NOTE
1 SHOVEL - 8 HRS 1 DUMPMAN - 8 HRS.

1 CAT-D7-8 HRS 1 FOREMAN - 8 HRS.

TRUCK LOAD RECORD (77)
THURS. 29 APR. 48 R.E. HAZARD Co.

TRK. No.	YDS.	No. OF LOADS				TOTAL CU YDS
		#6	#7	#5	#4	
95	5 1/2	III	II	III	71.5	
93	5 1/2	II	I	III	66.0	
102	5 1/2	III	I	III	66.0	
094	5 1/2	III	I	III	66.0	
090	5 1/2	II	III	III	71.5	
21	9 1/2	I	I	II	104.5	
97	5 1/2	III	I	III	60.5	
19	9 1/2	II	I	III	114.0	
18	9 1/2	III	II	III	104.5	
96	5 1/2	III	I	I	16.5	
121	5 1/2	I	I	I	5.5	
101	5 1/2	I	I	III	33.0	

TOTAL FOR DAY = 779.5

TO DATE #4 = 517.0 PROJ TOTAL TO DATE

#5 = 101.0

#6 = 2052.0

#7 = 471.5

3141.5

NOTE
1 SHOVEL - 8 HRS. 1 DUMPMAN - 8 HRS.
1 CAT D7 - 8 HRS. 1 FOREMAN - 8 HRS.
1 GRADER - 8 HRS.

TRUCK LOAD RECORD
FRI. 30 APR 1948 R.E. HAZARD Co.

TRUCK LOAD RECORD (25)
MON 3 MAY 1948 R.E. HAZARD Co.

TRX NO	YDS	NO OF LOADS		TOTAL CU. YDS.	
		FILL #3	FILL #1	FILL #3	FILL #1
093	5 1/2	III	II	22.0	38.5
095	5 1/2	II	III	27.5	49.5
18	9 1/2	II	III	47.5	76.0
102	5 1/2	II	III	27.5	49.5
97	5 1/2	III	II	22.0	55.0
094	5 1/2	III	II	22.0	44.0
D90	5 1/2	III	II	22.0	49.5
19	9 1/2	II	III	47.5	85.5
96	5 1/2	III	II	22.0	49.5
21	9 1/2	III	II	28.5	85.5
101	5 1/2	III	II	16.5	49.5
D91	5 1/2	III	III	16.5	22.0
105	5 1/2	II			27.5

TRX NO	YDS.	NO OF LOADS		TOTAL CU. YDS.
		FILL #1	FILL #1	
D-95	5 1/2	II	III	82.5
102	5 1/2	II		11.0
132	5 1/2	II	III	77.0
D94	5 1/2	II	III	77.0
97	5 1/2	II	III	5.5
101	5 1/2	I		5.5
21	9 1/2	II	III	133.0
18	9 1/2	II	III	133.0
19	9 1/2	II	III	123.5
105	5 1/2	II	III	66.0
D90	5 1/2	I		5.5

DAYS
TOTALS FILL #3 321.5 FILL #1 681.5
TOTAL CU YD TO DAY 1003.0
PROJECT TOTAL TO DATE = 4144.5

TOTAL FOR DAY 719.5
TOTAL TO DATE FILL #1 = 1401.0
PROJECT TOTAL TO DATE = 4864.0

NOTE
1 SHOVEL-8hrs 1 DUMPMAN-8hrs 1 SHOVEL-8hrs 1 DUMPMAN-8hrs
1 CAT-D7-8hrs 1 FOREMAN-8hrs 1 CAT-D7-8hrs 1 FOREMAN-8hrs
1 GRADER-4hrs

TRUCK LOAD RECORD

TUES. 4. MAY 1948 RE HAZARD Co.

TRK. NO.	YDS	No OF LOADS			TOTAL CU. YDS.		
		#1	FILL #2	FILL #6	#1	#2	#6
101	5 1/2	1	III II	IX	5.5	38.5	27.5
102	5 1/2	1	III		5.5	22.0	
19	9 1/2	1	II I	IIII	9.5	57.0	38.0
D94	5 1/2	III	III II		16.5	60.5	
21	9 1/2	III	II III	IX	28.5	85.5	47.5
121	5 1/2	1	II		5.5	11.0	
18	9 1/2	1	II		9.5	66.5	
D93	5 1/2	II	III II		11.0	55.0	
96	5 1/2	II	III II		11.0	60.5	
97	5 1/2	1				5.5	
D16	9 1/2	II				19.0	
132	5 1/2	II	II III		11.0	44.0	
D90	5 1/2	I		IIII	5.5	22.0	

TOTALS FOR DAY/PROJ 113.5 530.5 135.0

TOTAL CU YDS FOR DAY = 779.0

PROJECT TOTAL TO DATE = 5643.0

NOTE

1 SHOVEL - 8 HRS. 1 DUMPMAN - 8 HRS.
 1 CAT - D7 - 8 HRS. 1 FOREMAN - 8 HRS.
 1 GRADER - 4 HRS.

TRUCK LOAD RECORD

WED. 5 MAY 1948 RE HAZARD Co. (76)

TRK. NO.	YDS.	No OF LOADS			TOTAL CU YDS.		
		#1	#6	#4	#1	#6	#4
D-93	5 1/2	1	1	II	5.5	5.5	11.0
21	9 1/2	1	II	I	9.5	19.0	9.5
102	5 1/2	1	1	1	5.5	5.5	5.5
18	9 1/2	1	1	II	9.5	9.5	19.0
101	5 1/2	1		1	5.5		5.5
D90	5 1/2	1		II	5.5		11.0
96	5 1/2	1		II	5.5		11.0

TOTALS FOR DAY/FILL 46.5 39.5 72.5

TOTAL CU YDS FOR DAY = 158.5

PROJECT TOTAL = 5801.5

NOTE

1 SHOVEL - 8 HRS.
 1 CAT - D7 -
 1 GRADER - 8 HRS.

1 DUMPMAN - 8 HRS.
 1 FOREMAN - 8 HRS.

14.90 T.S.M.
3.96
18.86 T.P.

30-170
92-150 W

T.R. - 4.23 + LAST

-395 - T.P.

173
14.90

2.47

16.87

5.20 -

11.67 TP

4.89 +

16.56

4.35 -

12.21 T.P.

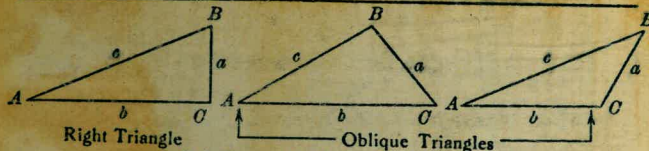
5.16 +

17.37

2.98

14.89

TRIGONOMETRIC FORMULÆ



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

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

Solution of Oblique Triangles

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

REDUCTION TO HORIZONTAL

Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = $5^\circ 10'$. From Table, Page IX, $\cos 5^\circ 10' = .9959$. Horizontal distance = $319.4 \times .9959 = 318.09$ ft. Horizontal distance also = Slope distance minus slope distance times (1 - cosine of vertical angle). With the same figures as in the preceding example, the following result is obtained. $\cos 5^\circ 10' = .9959$, $1 - .9959 = .0041$. $319.4 \times .0041 = 1.31$, $319.4 - 1.31 = 318.09$ ft. When the rise is known, the horizontal distance is approximately less the square of the rise divided by twice the slope distance = 302.6 ft. Horizontal distance = $302.6 - \frac{14 \times 14}{2 \times 302.6}$

