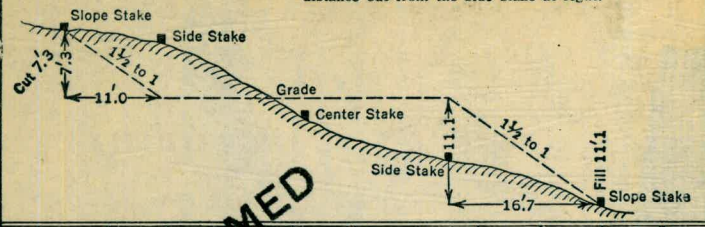
M.B. 104

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1½ to 1.

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



Cut or Fill	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	Cut or Fill
	Distance out from Side or Shoulder Stake										
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

KEUFFEL & ESSER CO., N. Y.

M.B. No. 104

M.B. 104

Re-Sounding ASHER Cove - 10-16-59 - 60-65

1-22-58 (Plotted Roll 24)

SOUNDINGS MISSION BAY ELY AREA

FOR CHECK ON NEW FILL W064501

STA. N92+00; 0+00 = W7900 SOUND EAST

DIST	Sound	Elev	DIST	Sound	Elev
0+00	2.5	+3.8			
(63)	2.1	+4.2			
10:15	2.0	+4.3			
	2.0	+4.3	2+00		
	2.2	+4.1			
50	2.1	+4.2			
	2.0	+4.3			
	2.0	+4.3			
	2.1	+4.2	50		
	2.0	+4.3			
1+00	2.0	+4.3			
	1.7	+4.6			
	1.5	+4.8			
	1.5	+4.8	3+00		
	1.5	+4.8			
W7750 Loth. 50	1.0	+5.3			

(Plotted Roll 24) (1)

N94+00; 0+00 = W7900 SOUND EAST

DIST	Sound	Elev	DIST	Sound	Elev
0+00	1.9	+4.4	(63)	2.7	+3.6
(63)	1.9	+4.4	2+00	2.5	+3.8
10:23	1.9	+4.4		2.5	+3.8
	2.0	+4.3		2.3	+4.0
	2.1	+4.2		2.4	+3.9
50	2.1	+4.2		2.2	+4.1
	2.2	+4.1	50	1.6	+4.7
	2.0	+4.3	W7640 Loth	0.7	+5.9
	2.3	+4.0			
	2.3	+4.0			
1+00	2.5	+3.8			
	2.4	+3.9	3+00		
	2.5	+3.8			
	2.8	+3.5			
	2.8	+3.5			
50	3.3	+3.0			
	3.3	+3.0			
	3.0	+3.3			
	3.0	+3.3			

1-22-58 (plotted Roll 24)

N 96+00; 0+00 = W 8000; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	3.6	+2.7	(63)	2.2	+4.1
(63)	3.3	+3.0	2+00	2.1	+4.2
10:30	3.1	+3.2		1.9	+4.4
	3.1	+3.2		1.7	+4.6
	3.0	+3.3		1.4	+4.9
50	3.1	+3.2		1.0	+5.3
	3.2	+3.1	W7750 50 Lath	1.0	+5.3
	3.1	+3.2			
	3.1	+3.2			
	3.2	+3.1			
1+00	3.4	+2.9			
	3.0	+3.3	3+00		
	3.3	+3.0			
	3.1	+3.2			
	3.0	+3.3			
50	3.0	+3.3			
	2.9	+3.4			
	2.9	+3.4			
	2.4	+3.9			

(PLOTTER R-24) ②

N. 98+00; 0+00 = W. 8,000; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	3.4	+2.9	(63) Lath W7800	1.0	+5.3
(63)	3.5	+2.8	2+00	0.1	+6.2
10:40	3.3	+3.0			
	3.7	+2.6			
	3.6	+2.7			
50	3.6	+2.7			
	3.5	+2.8	50		
	3.7	+2.6			
	3.7	+2.6			
	3.4	+2.9			
1+00	3.2	+3.1			
	3.0	+3.3	3+00		
	3.0	+3.3			
	2.9	+3.4			
	2.7	+3.6			
50	2.5	+3.8			
	2.1	+4.2			
	1.7	+4.6			
	1.2	+5.1			

1-22-58 (Plotted R-24)

N100+00; 0+00 = W8,000; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	3.8	+2.5	(62)	3.9	+2.3
(63)	3.8	+2.5		3.7	+2.5
10:46	3.8	+2.5	1+00	3.9	+2.3
	3.7	+2.6			
	3.5	+2.8			
50	3.2	+3.1			
	2.9	+3.4			
	2.1	+4.2			
	1.1	+5.2			
Lath	0.8	+5.5			
W7900 1+00	0.2	+6.1			

SOUND WEST

0+10	3.8	+2.4
(62)	3.9	+2.3
10:50	3.9	+
	3.9	+
50	3.9	+2.3
	3.8	+2.4
	3.8	+2.4

(Plotted R-24) (3)

N102+00; 0+00 = W8,000; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	1.3	+4.8	(61)	4.0	+2.1
(61)	1.6	+4.5	2+00	4.0	+2.1
10:54	1.9	+4.2			
	2.0	+4.1			
	2.4	+3.7			
50	2.7	+3.4			
	2.9	+3.2	50		
	3.1	+3.0			
	3.5	+2.6			
	3.9	+2.2			
1+00	3.9	+2.2			
	4.0	+2.1	3+00		
	4.0	+2.1			
	4.1	+2.0			
	4.0	+2.1			
50	4.0				
	4.0				
	4.0				
	4.0	+2.1			

1-23-58 (Plotted - R-24)

N104+00; 0+00 = W8,030; SOUND WEST

Dist	Sound	Elev	Dist.	Sound	Elev
0+00			(55)	3.8	+1.7
(55)	0.8	+4.7	2+00	3.8	
9:47	0.8	+4.7		3.8	
	1.0	+4.5		3.8	
	1.4	+4.1		3.8	
50	1.7	+3.8		3.8	
	2.0	+3.5	50	3.8	
	2.6	+2.9		3.8	
	3.0	+2.5		3.8	
	3.4	+2.1		3.8	
1+00	3.8	+1.7		3.8	
	3.9	+1.6	3+00	3.8	
	3.9	+1.6		3.8	
	3.8	+1.7		3.8	
	3.8			3.8	
50	3.8		9:50	3.8	
	3.8		50	3.8	
	3.8			3.8	
	3.8			3.8	+1.7
	3.8	+1.7		4.0	+1.5
				4.0	+1.5
			4+00	4.0	+1.5

(Plotted - R 24) (4)

N106+00; 0+00 = W8,060; SOUTH WEST

Dist	Sound	Elev	Dist.	Sound	Elev
0+00			(56)	4.1	+1.5
(56)			2+00	4.1	
9:53	0.0	+5.6		4.1	
	0.8	+4.8		4.1	
	1.1	+4.5		4.1	+1.5
50	1.8	+3.8		4.0	+1.6
	2.2	+3.4	50	4.0	+1.6
	2.6	+3.0		4.0	+1.6
	3.0	+2.6	9:55	4.1	+1.5
	3.1	+2.5		4.1	
1+00	3.3	+2.3		4.1	
	3.4	+2.2	3+00	4.1	+1.5
	3.6	+2.0		4.2	+1.4
	3.9	+1.7		4.2	+
	4.0	+1.6		4.2	+
50	4.5	+1.1	50	4.2	+
	4.2	+1.4		4.2	+
				4.2	+1.4
	4.1	+1.5		4.1	+1.5
	4.2	+1.4		4.4	+1.2
			4+00	4.3	+1.3

1-23-58 (Plotted R-24)

N108+00; 0+00 = W8,060; SOUND WEST

Dist.	Sound	Elev.	Dist	Sound	Elev
0+00			(56)	4.6	+1.0
(56)			2+00	4.6	+1.0
10:00	0.5	+5.1		5.0	+0.6
	1.1	+4.5		4.8	+0.8
	1.4	+4.2		4.3	+1.3
50	1.9	+3.7		4.3	
	2.7	+2.9	50	4.3	
	3.1	+2.5		4.3	
	3.4	+2.2		4.3	
	3.4	+2.2		4.3	+1.3
1+00	3.6	+2.0		4.4	+1.2
	3.9	+1.7	3+00	4.4	+1.2
	4.0	+1.6		4.1	+1.5
	4.2	+1.4		4.1	+1.5
	4.2	+1.4	50	4.0	+1.6
50	4.4	+1.2		4.1	+1.5
	4.9	+0.7		4.1	+1.5
	4.7	+0.9		4.2	+1.4
	4.7	+0.9		4.3	+1.3
				4.1	+1.5
			4+00	4.1	+1.5

(Plotted R-24) (5)

N110+00; 0+00 = W8,100; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	2.2	+3.4	(56)	4.8	+0.7
(56)	2.9	+2.7	2+00	4.8	+
10:05	3.4	+2.2		4.8	+
	3.9	+1.7		4.8	+
	4.0	+1.6		4.8	+0.7
50	4.3	+1.3		4.3	+1.1
	4.5	+1.1	50	4.4	+1.2
	4.5			4.0	+1.6
	4.5			4.1	+1.5
	4.5	+1.1		4.0	+1.6
1+00	4.7	+0.9		4.0	+1.6
	4.7	+0.9	3+00	4.1	+1.5
	4.8	+0.8		4.7	+0.9
	4.6	+1.0		5.5	+0.1
	4.6	+1.0		6.5	0.9
50	4.7	+0.9		6.0	0.4
	4.7	+0.9	50	4.3	+1.3
	4.7	+0.9		4.3	+1.3
	4.9	+0.7		4.4	+1.2
				4.4	+
				4.4	+
			4+00	4.4	+1.2

1-23-58 (Plotted R-2A)

N.112+00; 0+00 = W.8,030'; SOUND WEST

Dist	Sound	Elev
0+00		
56		
10:10	0.6	+5.0
	0.9	+4.7
	1.4	+4.2
50	1.4	+4.2
	1.9	+3.7
	2.7	+2.9
	3.2	+2.4
	4.0	+1.6
1+00	4.2	+1.4
	4.4	+1.2
	4.7	+0.9
	4.9	+0.7
	4.9	+0.7
50	5.0	+0.6
	5.0	+0.6
	4.7	+0.9
	4.8	+0.8

Dist	Sound	Elev
56	4.8	+0.8
2+00	4.8	+
	4.8	+
	4.8	+
	4.8	+
	4.8	+ 0.8
50	4.6	+1.0
	4.6	+1.0
	4.7	+ 0.9
	5.5	0.1
	5.9	0.3
3+00	5.0	+ 0.6
	4.8	+ 0.8
	4.8	+ 0.8
	4.8	+ 0.8
	4.8	+ 0.8
50	4.8	+ 0.8
	4.5	+1.1
	4.4	+1.2
	4.5	+1.1
	4.6	+1.0
4+00	4.7	+ 0.9

(Plotted R-2A) (6)

N.114+00; 0+00 = W.8,000'; SOUND WEST

Dist	Sound	Elev
0+50		
57	0.5	+5.2
10:8	1.1	+4.6
	1.4	+4.3
	2.0	+3.7
1+00	2.4	+3.3
	2.8	+2.9
	3.0	+2.7
	3.2	+2.5
	3.5	+2.2
50	3.6	+2.1
	3.8	+1.9
	3.9	+1.8
	4.1	+1.6
	4.3	+1.4
2+00	4.8	+0.9
	4.9	+0.8
	4.9	+0.8
	4.9	+0.8

Dist	Sound	Elev
57	4.9	+0.8
50	4.9	+
	4.9	+
	4.9	+0.8
	4.8	+0.9
	4.8	+0.9
3+00	4.9	+0.8
	5.0	+0.7
	4.8	+0.9
	4.7	+1.0
	4.8	+0.9
50	4.8	+0.9
	4.8	+0.9
	4.7	+1.0
	4.7	+1.0
	4.7	+1.0
4+00	4.6	+1.1

1-22-58 (Plotted R-24)

N.116+00; 0+00 = W.8,000; SOUND WEST

Dist	Sound	Elev
0+00	0.3	+5.8
(61)	1.0	+5.1
11:02	1.4	+4.7
	2.0	+4.1
	2.7	+3.4
50	3.3	+2.8
	3.9	+2.2
	4.6	+1.5
	5.0	+1.1
	5.0	+1.1
1+00	5.2	+0.9
	5.2	+0.9
	5.1	+1.0
	5.1	
	5.1	
50	5.1	
	5.1	
	5.1	
	5.1	+1.0
2+00	5.1	+1.0

(Plotted R-24) ②

N.118+00; 0+00 = W.8,000; SOUND EAST

Dist	Sound	Elev
0+00	2.9	+3.1
(60)	2.5	+3.5
11:08	2.2	+3.8
	1.8	+4.2
	1.3	+4.7
50	0.8	+5.2
W 7940 Latti	0.5	+5.5
SOUND WEST		
0+10	3.1	+2.9
	3.7	+2.3
11:10	4.6	+1.4
	4.9	+1.1
50	4.9	+1.1
	5.0	+1.0
	5.0	+1.0
	5.1	+0.9
	5.1	
1+00	5.1	+
	5.1	+0.9
(60)	5.1	+0.9
	5.1	+0.9
	5.0	+1.0
50	5.0	
	5.0	
	5.0	+1.0
	4.8	+1.2
	4.7	+1.3
2+00	4.7	+1.3

1-22-58 (Plotted R-24)

N.120+00; 0+00 = W.8,000; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	4.8	+1.2	50	4.6	+1.4
(60)	4.8	+1.2	(59)	4.6	+1.4
11:15	4.7	+1.3		4.6	+1.4
	4.3	+1.7		4.7	+1.3
	4.0	+2.0		4.7	+1.3
50	3.6	+2.4	1+00	4.7	+1.3
	3.0	+3.0			
	2.5	+3.5			
	2.1	+3.9			
	1.8	+4.2			
1+00	1.4	+4.6			
	1.0	+5.0			
	0.7	+5.3			
W7870 Lath	0.1	+5.9			

SOUND WEST

0+10	4.9	+1.1
(59)	4.9	+1.1
11:18	4.8	+1.2
	4.8	+1.2

(Plotted R-24) (8)

N.122+00; 0+00 = W.8,000; SOUND EAST

Dist	Sound	Elev
0+00	4.7	+1.1 (0.9)
(58)	4.7	+1.1
11:22	4.8	+1.0
	4.8	+1.0
	4.9	+0.9
50	5.0	+0.8
	5.0	+0.8
	4.9	+0.9
	4.9	+0.9
	4.8	+1.0
1+00	4.6	+1.2
	4.3	+1.5
	4.1	+1.7
	3.6	+2.2
	2.9	+2.9
50	2.1	+3.7
	1.6	+4.2
	1.1	+4.7
	0.8	+5.0

Dist	Sound	Elev
Lath	0.4	+5.4
W7800 2+00	0.0	+5.8

SOUND WEST

0+10	4.4	+1.4
(58)	4.2	+1.6
11:27	4.2	+1.6
	4.2	+1.6
50	4.3	+1.5
	4.1	+1.1
	4.3	+1.5
	4.2	+1.6
	4.2	+1.6
1+00	4.1	+1.7

1-22-58 (Plotted R-24)

N.124+00 : 0+00 = W.8000 ; SOUND EAST

Dist	Sound	Elev 1.3
0+00	4.4	+1.4
(58)	4.3	+1.5
11:30	4.3	+1.5
	4.2	+1.6
	4.4	+1.4
50	4.5	+1.3
	4.3	+1.5
	4.3	+1.5
	4.8	+1.0
	4.7	+1.1
1+00	4.7	+1.1
	4.5	+1.3
	4.5	+1.3
	4.3	+1.5
	4.3	+1.5
50	4.3	+1.5
	4.2	+1.6
	4.2	+1.6
	4.6	+1.2

Dist	Sound	Elev
(58)	4.3	+1.5
2+00	4.3	+1.5
	4.0	+1.8
	3.8	+2.0
	3.1	+2.7
	2.8	+3.0
50	2.2	+3.6
	1.9	+3.9
	1.6	+4.2
	1.2	+4.6
Lath W7100	0.9	+4.9
3+00	0.5	+5.3

(Plotted R-24)

N.126+00 : 0+00 = W.8000 ; SOUND EAST

Dist	Sound	Elev 1.3
0+00	4.3	+1.4
(57)	4.1	+1.6
11:37	4.2	+1.5
	4.2	
	4.2	
50	4.2	+1.5
	4.3	+1.4
	4.4	+1.3
	4.4	+1.3
	4.4	+1.3
1+00	4.5	+1.2
	4.5	+1.2
	4.4	+1.3
	4.4	+1.3
	4.7	+1.0
50	4.7	
	4.7	
	4.7	
	4.7	+1.0

Dist	Sound	Elev
(57)	4.8	+0.9
2+00	4.8	+0.9
	4.7	+1.0
	4.9	+0.8
	4.9	
	4.9	
50	4.9	+0.8
	4.6	+1.1
	4.3	+1.4
	4.0	+1.7
	3.5	+2.2
3+00	3.2	+2.5
	2.8	+2.9
	2.3	+3.4
	1.9	+3.8
	1.5	+4.2
50	1.1	+4.6
	0.6	+5.1
W7630 Lath	0.5	+5.2

1-22-58 (Plotted R-24)

N.128+00; 0+00 = W.7900; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	4.2	+1.4	56	5.0	+0.6
56	4.2	+1.4	2+00	4.7	+0.9
11:45	4.5	+1.1		4.2	+1.4
	4.5	+1.1		4.2	+1.4
	4.4	+1.2		4.1	+1.5
50	4.5	+1.1		4.0	+1.6
	4.8	+0.8	50	3.7	+1.9
	4.7	+0.9		3.4	+2.2
	4.9	+0.7		3.0	+2.6
	5.0	+		2.8	+2.8
1+00	4.9	+		2.3	+3.3
	4.9	+	3+00	2.0	+3.6
	4.9	+0.7		1.4	+4.2
	5.0	+0.6		1.1	+4.5
	5.0			0.9	+4.7
50	5.0			0.6	+5.0
	5.0		W 7550 Lath	0.1	+5.5
	5.0				
	5.0	+06			

(Plotted R-24) (10)

N.130+00; 0+00 = W.79000; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	4.9	+0.6	53	4.3	+1.2
55	5.0	+0.5	2+00	4.3	+1.2
11:54	5.0			3.9	+1.6
	5.0			3.4	+2.1
	5.0			3.3	+2.2
50	5.0			3.1	+2.4
	5.0		50	3.0	+2.5
	5.0	+0.5		3.0	+2.5
	5.1	+0.4		2.8	+2.7
	5.1			2.6	+2.9
1+00	5.1			2.4	+3.1
	5.1		3+00	2.2	+3.3
	5.1			2.1	+3.4
	5.1	-0.4		2.0	+3.5
	4.9	+0.6		2.0	+3.5
50	4.9	-0.6		1.8	+3.7
	4.8	+0.7	50	1.3	+4.2
	4.5	+1.0		0.9	+4.6
	4.4	+1.1	W 7520 Lath	0.6	+4.9
				0.1	+5.4

1-22-58 (Plotted R-24)

N.132+00; 0+00 = W.7,900; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	5.0	+0.3	(53)	5.0	+0.3
(53)	5.0	+0.3	2+00	5.0	+0.3
12.03	5.1	+0.2		4.8	+0.5
	5.1	+0.2		4.7	+0.6
	5.1	+0.2		4.3	+1.0
50	5.2	+0.1		4.0	+1.3
	5.2		50	3.7	+1.6
	5.2			3.0	+2.3
	5.2			2.8	+2.5
	5.2			2.5	+2.8
1+00	5.2			2.5	+2.8
	5.2		3+00	2.0	+3.3
	5.2			1.7	+3.6
	5.2			1.5	+3.8
	5.2	+0.1		1.5	+3.8
50	5.0	+0.3	Lath W7550	1.0	+4.3
	5.0		50	0.3	+5.0
	5.0				
	5.0	+0.3			

(Plotted R-24) (2)

N.134+00; 0+00 = W.7,900; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	5.1	+0.1	(52)	4.3	+0.9
(52)	5.1	+0.1	2+00	3.9	+1.3
12.10	5.1	+0.1		3.2	+2.0
	5.2	0.0		3.1	+2.1
	5.2	0.0		2.7	+2.5
50	5.3	0.1		2.5	+2.7
	5.4	0.2	50	2.0	+3.2
	5.5	0.3		1.9	+3.3
	5.6	0.4		1.5	+3.7
	5.7	0.5		1.1	+4.1
1+00	5.4	0.2	Lath W7600	0.7	+4.5
	5.3	0.1	3+00	0.6	+4.6
	5.2	0.0			
	5.4	0.2			
	5.5	0.3			
50	5.5	0.3			
	5.2	0.0	50		
	4.9	+0.3			
	4.7	+0.5			

1-22-58 (Plotted R-24)

N.136+00; 0+00 = W. 8,000; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	5.1	0.0	(5)	5.3	0.2
(5)	5.4	0.3	2+00	5.1	0.0
12.18	4.9	+0.2		5.0	+0.1
	5.0	+0.1		4.2	+0.9
	5.0	+0.1		3.7	+1.4
50	5.2	0.1		3.1	+2.0
	5.2	0.1	50	2.9	+2.2
	5.0	+0.1		2.9	+2.2
	5.1	0.0		2.4	+2.7
	5.4	0.3		2.1	+3.0
1+00	5.5	0.4		2.0	+3.1
	5.2	0.1	3+00	1.6	+3.5
	5.2	0.1		1.6	+3.5
	5.3	0.2		1.2	+3.9
	5.4	0.3		0.7	+4.4
50	5.6	0.5	Lath W7650	0.5	+4.6
	5.5	0.4	50	0.1	+5.0
	5.8	0.7			
	5.5	0.4			

(Plotted R-29)

N138+00; 0+00 = W 8,000; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	4.0	+1.1	(5)	3.3	+1.8
(5)	4.1	+1.0	2+00	3.0	+2.1
12.20	4.1			2.8	+2.3
	4.1			2.3	+2.8
	4.1			2.0	+3.1
50	4.1	+1.0		1.6	+3.5
	4.0	+1.1	50	1.2	+3.9
	4.0	+1.1		1.0	+4.1
	4.0	+1.1		0.6	+4.5
	3.9	+1.2	Lath W7720	0.2	+4.9
1+00	4.0	+1.1	CONT'D WEST PG 16		
	4.0				
	4.0				
	4.0				
	4.0		50		
50	4.0				
	4.0	+1.1			
	3.9	+1.2			
	3.7	+1.4	1+00		

1-22-58

N.140+00; 0+00 = W.8000 ; SOUND EAST

Dist	Sound	Elev
0+00	3.2	+1.6
48	3.2	+1.6
1233	3.3	+1.5
	3.2	+1.6
	3.2	
50	3.2	
	3.2	
	3.2	
	3.2	
	3.2	+1.6
1+00	3.1	+1.7
	3.0	+1.8
	2.9	+1.9
	2.9	+1.9
	2.9	+1.9
50	2.8	+2.0
	2.8	+2.0
	2.6	+2.2
	2.4	+2.4

Dist	Sound	Elev
48	2.2	+2.6
2+00	2.1	+2.7
	1.9	+2.9
	1.7	+3.1
	1.3	+3.5
	1.1	+3.7
50	1.0	+3.8
	0.9	+3.9
	0.7	+4.1
Lath W7720	0.3	+4.5

(CONT'D WEST Pg 17)

(Plotted R-24) (13)

N.142+00; 0+00 = W8,000 ; SOUND EAST

Dist	Sound	Elev
0+00	2.9	+1.9
48	2.8	+2.0
1242	2.8	+2.0
	2.9	+1.9
	2.9	
50	2.9	
	2.9	
	2.9	+1.9
	2.8	+2.0
	2.8	+2.0
1+00	2.9	+1.9
	3.0	+1.8
	3.0	+1.8
	3.0	+1.8
	3.2	+1.6
50	3.2	+1.6
	3.5	+1.3
	3.0	+1.8
	3.0	+1.8

Dist	Sound	Elev
48	2.9	+1.9
2+00	2.6	+2.2
	2.5	+2.3
	2.3	+2.5
	2.5	+2.3
	2.4	+2.4
50	2.4	+2.4
	1.9	+2.9
	1.5	+3.3
	1.0	+3.8
	0.9	+3.9
Lath W7700 3+00	0.8	+4.0

(CONT'D WEST Pg 17)

1-22-58 (Plotted R-21)

N.144+00; 0+00 = W.8,000 ; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	3.2	+1.4	(46)	3.5	+1.1
(46)	3.2		2+00	3.3	+1.5-
1250	3.2			3.2	+1.4
	3.2			3.3	+1.3
	3.2			3.2	+1.4
50	3.2			3.3	+1.3
	3.2		50	3.3	
	3.2			3.3	
	3.2			3.3	+1.3
	3.2			3.2	+1.4
1+00	3.2			2.9	+1.7
	3.2		3+00	2.6	+2.0
	3.2			2.0	+2.6
	3.2			1.4	+3.2
	3.2			1.2	+3.4
50	3.2	+1.4	Latt W.7650 50	0.7	+3.9-
	3.3	+1.3		0.5	+4.1-
	3.4	+1.2	(CONT'D WEST Pg 22)		
	3.4	+1.2			

(Plotted R-24) (14)

N.146+00; 0+00 = W.7900 ; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	3.6	+0.9-	(45)	3.5	+1.0
(45)	3.6		2+00	3.6	+0.9-
1255	3.6			3.5	+1.0
	3.6			3.1	+1.4
	3.6			2.4	+2.1
50	3.6	+0.9		2.0	+2.5
	3.5	+1.0	50	1.4	+3.1
	3.5	+1.0		1.0	+3.5
	3.5	+1.0		0.7	+3.8
	3.4	+1.1		0.7	+3.8
1+00	3.4	+1.1-	Latt W.7600 3+00	0.6	+3.9
	3.4	+1.1		0.3	+4.2
	3.5	+1.0	(CONT'D WEST Pg 23)		
	3.8	+0.7			
	3.7	+0.8			
50	3.8	+0.7			
	3.6	+0.9			
	3.5	+1.0			
	3.5	+1.0			

1-22-58

N 148+00 ; 0+00 = W 7800 ; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	3.7	+0.5	42	2.8	+1.4
42	3.7		2+00	2.6	+1.6
1.05	3.7			2.4	+1.8
	3.7			2.2	+2.0
	3.7			1.9	+2.3
50	3.7			1.8	+2.4
	3.7	+0.5	50	1.6	+2.6
	3.6	+0.6		1.3	+2.9
	3.5	+0.7		1.1	+3.1
	3.5	+		1.0	+3.2
1+00	3.5	+1	Left W7500	0.7	+3.5
	3.5	+0.7	2+00	0.5	+3.7
	3.4	+0.8	(Contd West to 19)		
	3.3	+0.9			
	3.2	+1.0			
50	3.3	+0.9			
	3.2	+1.0			
	3.0	+1.2			
	3.0	+1.2			

N. 150+00 ; 0+00 = W. 7700 ; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
(Contd from P. 26.) 0+00	3.8	+0.3	41	2.4	+1.7
41	3.8	+0.3	2+00	2.0	+2.1
1.12	3.8	+0.3		1.9	+2.2
	4.0	+0.1		1.6	+2.5
	3.8	+0.3		1.6	+2.5
50	3.5	+0.6		1.5	+2.6
	3.7	+0.4	50	1.4	+2.7
	3.6	+0.5		1.0	+3.1
	3.4	+0.7		1.0	+3.1
	3.4	+0.7		0.9	+3.2
1+00	3.7	+0.4	1.18	0.7	+3.4
	3.7	+0.4	3+00	0.5	+3.6
	3.5	+0.6	W7400 Left		
	3.4	+0.7	(Plotted Roll 24)		
	3.3	+0.8			
50	3.1	+1.0			
	3.0	+1.1			
	3.0	+1.1			
	2.8	+1.3			

1-22-58

N.152+00; 0+00 = W.7600 ; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	4.7	0.8	39	3.3	+0.6
39	4.7	0.8	2+00	3.3	+0.6
1:20	4.5	0.6		3.2	+0.1
	4.3	0.4		3.2	+0.7
	4.2	0.3		3.1	+0.8
50	4.1	0.2		3.0	+0.9
	4.0	0.1	50	2.8	+1.1
	4.0	0.1		2.7	+1.7
	4.0	0.1		2.3	+1.6
	3.9	0.0		1.9	+2.0
1+00	3.8	+0.1	Left W7300 2+00	1.2	+2.7
	3.8	+0.1		0.8	+3.1
	3.7	+0.2	(Plotted Roll 24)		
	3.6	+0.3			
	3.5	+0.4			
50	3.4	+0.5			
	3.3	+0.6			
	3.3	+0.6			
	3.2	+0.7			

(Cont'd from Pg 12)

1-23-58

N138+00; 0+00 = W.8000; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+10	4.8	+0.9	2+00	5.0	+0.7
10:30	5.0	+0.7	57	5.1	+0.6
57	5.0	+0.7		5.2	+0.5
	5.2	+0.5		5.2	
50	5.3	+0.4		5.2	
	5.0	+0.7	50	5.2	+0.5
	4.8	+0.9		5.1	+0.6
	5.0	+0.7		5.1	+0.6
	5.0			5.1	+0.6
1+00	5.0			5.0	+0.7
	5.0	+0.7	3+00	5.0	+0.7
	5.2	+0.5		5.1	+0.6
	5.2	+0.5		5.1	+0.6
	4.9	+0.8		5.2	+0.5
50	5.0	+0.7		5.2	+0.5
	5.0		50	5.3	+0.4
	5.0			5.3	
	5.0			5.3	
	5.0			5.3	
	5.0	+0.7	4+00	5.3	+0.4

Cont'd Pg. 21

(CONTD from Pg. 13) 1-23-58

N.140+00; 0+00=W.8,000; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+10	4.1	+1.6	2+00	4.5	+1.2
10.48	4.1	+1.6	(57)	4.5	+1.2
(57)	4.2	+1.5	10.50	4.6	+1.1
	4.2	+1.5		4.6	+1.1
50	4.2	+1.5		4.7	+1.0
	4.3	+1.4	50	4.8	+0.9
	4.3	+1.4		4.8	+0.9
	4.2	+1.5		4.8	+0.9
	4.2	+1.5		4.9	+0.8
1+00	4.3	+1.4		5.0	+0.7
	4.3		3+00	5.0	
	4.3			5.0	
	4.3			5.0	
	4.3			5.0	+0.7
50	4.3	+1.4		5.1	+0.6
	4.4	+1.3	50	5.1	
	4.4			5.1 5.1	+0.6
	4.4			5.0	+0.7
	4.4	+1.3			

(contd from Pg. 13) (Plotted P-24) (17)

N.140+00; CONTD WEST

Dist	Sound	Elev	Dist	Sound	Elev
4+00	5.1	+0.6	6+00	5.0	+0.7
(57)	5.0	+0.7	(57)	5.1	+0.6
	4.9	+0.8		5.1	
	4.9	+0.8		5.1	
	4.8	+0.9		5.1	
50	4.8		50	5.1	
	4.8			5.1	+0.6
	4.8	+0.9		5.2	+0.5
	4.9	+0.8		5.2	
	4.9	+0.8		5.2	
5+00	5.0	+0.7	7+00	5.2	
	5.0			5.2	
	5.0			5.2	
	5.0			5.2	+0.5
	5.0			5.3	+0.4
50	5.0		50	5.4	+0.3
	5.0			5.5 5.5	+0.2 +0.2
	5.0			5.5 5.6	+0.2 +0.1
	5.0 5.1	+0.7 +0.6	8+00	5.7	0.0

(Contd from Pg. 13) 1-23-58 (Plotted R-24)

N 140+00; CONTD. WEST.

Dist	Sound	Elev
8+10	5.8	0.3
(57)	5.8	
10+55	5.8	
≈	5.8	
50	5.8	0.3
	5.9	0.2
	6.0	0.3
	6.0	
	6.0	
9+00	6.0	0.3
	6.1	0.4
	6.1	0.4
	6.0	0.3
	6.0	0.3
50	6.1	0.4
	6.1	
	6.1	
	6.1	
	6.1	0.4

Dist	Sound	Elev
10+00	6.1	0.4

(Contd from Pg 14) (Plotted - R 24) (10)

N 142+00; 0+00 = W 8,000; SOUND WEST

Dist	Sound	Elev
0+00		
(57)	3.8	+1.9
1+02	3.8	
≈	3.8	
	3.8	
	3.8	
50	3.8	
	3.8	
	3.8	+1.9
	3.9	+1.8
0+10	3.9	+1.8
1+00	4.0	+1.7
	4.0	+1.7
	3.9	+1.8
	4.0	+1.7
	4.0	+1.7
50	4.0	+1.7
	4.1	+1.6
	4.1	+1.6
	4.1	+1.6

Dist	Sound	Elev
(57)	4.2	+1.5
2+00	4.2	
	4.2	
	4.2	
	4.2	
	4.2	
50	4.2	+1.5
	4.3	+1.4
	4.4	+1.3
	4.4	
	4.4	
3+00	4.4	
	4.4	
	4.4	+1.3
	4.5	+1.2
	4.6	+1.1
50	4.7	+1.0
	4.8	+0.9
	4.8	+0.9

Contd from pg 18) 1-23-58. (Plotted R-24)

N.142+00 CONTD WEST

Dist	Sound	Elev	Dist	Sound	Elev
(57)	4.9	+0.8	(57)	5.3	+0.4
11+05	5.0	+0.7		5.2	+0.5
4+00	5.1	+0.6		5.3	+0.4
	5.1		6+00	5.3	+0.4
	5.1			5.3	+0.4
	5.1			5.4	+0.3
	5.1			5.5	+0.2
50	5.1	+0.6		5.5	+0.2
	5.0	+0.8	50	5.4	+0.3
	4.9	+0.7		5.4	+0.3
	5.0	+0.7		5.5	+0.2
	5.0	+0.7		5.5	+0.2
5+00	5.0	+0.7		5.5	+0.2
	5.1	+0.6	7+00	5.6	+0.1
	5.1	+0.6		5.6	+0.1
	5.2	+0.5		5.6	+0.1
	5.4	+0.3		5.7	0.0
50	5.9	0.2		5.8	0.1
	5.8	0.1	50	5.9	0.2

(Contd from Pg.) (Plotted R-24) (19)

N.142+00 WEST

Dist	Sound	Elev	Dist	Sound	Elev
(57)	6.0	0.3	50	6.0	0.3
	6.0		(57)	6.0	
	6.0		11+40	6.0	
	6.0			6.0	
8+00	6.0			6.0	
	6.0		10+00	6.0	0.3
	6.0			6.1	0.4
	6.0	0.3		6.1	0.4
	6.1	0.4		6.0	0.3
50	6.1	0.4		6.0	0.3
	6.1	0.4	50	5.8	0.1
	6.0	0.3		6.0	0.3
	6.0			6.0	
	6.0			6.0	
9+00	6.0			6.0	
	6.0	0.3	11+00	6.0	0.3
	6.1	0.4			
	6.1	0.4			
	6.0	0.3			

N. 153+00; 0+00 = W ; SOUND WEST

Dist	Sound	Elev.	Dist	Sound	Elev
0+00					
			2+00		
50					
			50		
1+00					
			3+00		
50					

N. 154+00; 0+00 = W. ; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00					
			2+00		
50					
			50		
1+00					
			3+00		

N155+00; 0+00 = W ; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00					
			2+00		
50					
			50		
1+00					
			3+00		
50					

Contd from Pg 16 N. 138+00 WEST (21)

Dist	Sound	Elev	Dist	Sound	Elev
4+10	5.3	+0.4	(57)	5.1	+0.6
(57)	5.3			5.2	+0.5
10:37	5.3		Plotted Roll-24	5.3	+0.4
	5.3			5.4	+0.3
50	5.3		50	5.6	+0.1
	5.3	+0.4		5.5	+0.2
	5.4	+0.3		5.4	+0.3
	5.4			5.4	
	5.4			5.4	
5+00	5.4		7+00	5.4	+0.3
	5.4	+0.3		5.5	+0.2
	5.5	+0.2	10:40	5.5	
	5.5			5.5	
	5.5	+		5.5	
50	5.5	+0.2	50	5.5	
	5.3	+0.4		5.5	
	5.2	+0.5		5.5	
	5.2	+0.5		5.5	+0.2
	5.2	+0.5		56	+0.1
6+00	5.1	+0.6	8+00	5.7	0.0

1-23-58 (Plotted R-24)

N 144+00; 0+00 = W 8,000; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+10	4.1	+1.4	2+00	4.6	+0.9
(55)	4.2	+1.3	(55)	4.5	+1.0
11:22	4.2			4.5	+1.0
	4.2			4.6	+0.9
50	4.2	+1.3		4.6	+0.9
	4.1	+1.4	50	4.9	+0.6
	4.1	+1.4		4.7	+0.8
	4.1	+1.4	11:25	4.8	+0.7
	4.2	+1.3		4.8	
1+00	4.2	+1.3		4.8	
	4.3	+1.2	3+00	4.8	+0.7
	4.3			4.9	+0.6
	4.3			5.0	+0.5
	4.3			5.0	
50	4.3	+1.2		5.0	
	4.4	+1.1	50	5.0	+0.5
	4.2	+1.3		5.2	+0.3
	4.3	+1.2		5.0	+0.5
	4.5	+1.0		5.0	+0.5

N 144+00; CONTD WEST (Plotted R-24) (22)

Dist	Sound	Elev	Dist	Sound	Elev
(55)	5.0	+0.5	(55)	6.0	0.5
4+00	5.0	+0.5	6+00	5.9	0.4
	5.1	+0.4		5.8	0.3
	5.1			5.8	0.3
	5.1			5.8	0.3
	5.1	+0.4		5.9	0.4
50	5.2	+0.3	50	6.0	0.5
	5.3	+0.2		6.0	
	5.6	0.1		6.0	
	5.6			6.0	0.5
	5.6			6.2	0.7
5+00	5.6		7+00	6.1	0.6
	5.6	0.1		6.3	0.8
	5.7	0.2		6.4	0.9
	5.7	0.2		6.5	1.0
	5.8	0.3		6.5	1.0
50	5.8		50	6.4	0.9
	5.8			6.4	0.9
	5.8	0.3		6.3	0.8
	6.0	0.5	8+00	6.2	0.7
				6.5	1.0
				6.3	0.8

1-23-58 (Plotted - R24)

N146+00; 0+00 = W8,000; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	4.7	+0.7	(54)	5.0	+0.4
(54)	4.9	+0.5		5.0	
11:35	4.8	+0.6	1+00	5.0	
	4.8	+0.6		5.0	
	4.8	+0.6		5.0	
50	4.9	+0.5		5.0	
	4.9			5.0	
	4.9		50	5.0	+0.4
	4.9			5.1	+0.3
	4.9	+0.5		5.1	
1+00	5.0	+0.4		5.1	

SOUND WEST (Plotted Roll 24)

0+10	4.7	+0.7	2+00	5.1	
11:38	4.8	+0.6		5.1	
	4.9	+0.5		5.1	
(54)	4.9			5.1	
50	4.9			5.1	
	4.9	+0.5	50	5.1	+0.3
	5.0	+0.4		5.2	+0.2

N146+00 WEST (Plotted Roll 24) (27)

Dist	Sound	Elev	Dist	Sound	Elev
(54)	5.2	+0.2	(54)	6.0	0.6
11:40	5.4	0.0		6.0	
	5.4	0.0		6.0	
3+00	5.4	0.0	5+00	6.0	
	5.6	0.2		6.0	
	5.7	0.3		6.0	0.6
	5.7	0.3		6.2	0.8
	5.8	0.4		6.1	0.7
50	5.8	0.4	50	6.0	0.6
	5.9	0.5		6.0	0.6
	5.9			6.2	0.8
	5.9			6.1	0.7
	5.9			6.2	0.8
4+00	5.9		6+00	6.0	0.6
	5.9	0.5		6.0	
	6.0	0.6		6.0	
	6.0			6.0	
	6.0			6.0	
50	6.0		50	6.0	
	6.0	0.6		6.0	0.6

N146+00 CONTD WEST 1-23-58

Dist	Sound	Elev
53	6.0	0.7
11:43	6.1	0.8
	6.0	0.7
7+00	6.0	0.7
	6.0	0.7
	6.1	0.8
	6.1	0.8
	6.1	0.8
50	6.0	0.7
	6.1	0.8
	6.3	1.0
	6.9	1.6
	7.1	1.8
8+00	7.1	1.8

(Plotted Roll 24)

(Plotted Roll 24)

N148+00; 0+00 = W8000 : SOUND EAST

Dist	Sound	Elev
0+00	5.3	0.1
52	5.3	0.1
11:52	5.3	0.1
	5.2	0.0
	5.1	0.1
50	5.0	+0.2
	5.0	
	5.0	
	5.0	
	5.0	
1+00	5.0	
	5.0	
	5.0	
	5.0	
50	5.0	
	5.0	+0.2
	4.9	+0.3
	4.9	+0.3

Dist	Sound	Elev
52	4.9	+0.3
2+00	4.7	+0.5

SOUND WEST

Dist	Sound	Elev
0+10	5.4	0.2
	5.5	0.3
11:55	5.5	0.3
	5.6	0.4
50	5.6	0.4
	5.7	0.5
	5.7	
	5.7	
	5.7	
1+00	5.7	0.5
	5.8	0.6
	5.8	
	5.8	
	5.8	0.6
50	5.9	0.7
	5.9	0.7

N148+00 CONTD WEST 1-23-58

Dist	Sound	Elev	Dist	Sound	Elev
52	5.9	0.7	52	6.0	0.8
1157	5.9			6.0	0.8
	5.9			5.9	0.7
2+00	5.9		4+00	6.0	0.8
	5.9		(Plotted Roll 24)		
	5.9	0.7	Contd. P-18		
	6.0	0.8			
	5.9	0.7			
50	6.0	0.8	50		
	6.0				
	6.0				
	6.0				
	6.0				
	6.0				
3+00	6.0		5+00		
	6.0	0.8			
	5.9	0.7			
	5.9				
	5.9				
50	5.9	0.7			
	6.0	0.8			

N150+00; 0+00 = W8,000; SOUND EAST (25)

Dist	Sound	Elev	Dist	Sound	Elev
0+00	5.8	0.6	2+00	5.2	0.0
52	5.5	0.3	52	5.1	+0.1
1202	5.5	0.3		5.1	+0.1
	5.4	0.2		5.0	+0.2
	5.5	0.3		4.9	+0.3
50	5.4	0.2	50	5.0	+0.2
	5.6	0.4		5.0	
	5.6	0.4	1205	5.0	(Plotted Roll 24)
	5.6	0.4		5.0	
	5.5	0.3	52	5.0	
1+00	5.6	0.4	3+00	5.0	+ 0.2
	5.5	0.3	SOUND WEST		
	5.5	0.3	0+10	5.7	0.5
	5.3	0.1	52	5.9	0.7
	5.4	0.2	1207	5.9	0.7
50	5.3	0.1		5.6	0.4
	5.3	0.1	50	5.8	0.6
	5.3	0.1		5.9	0.7
	5.1	+0.1		6.0	0.8
	5.2	0.0		6.0	0.8

N150+00 CONTD WEST 1-23-58

Dist	Sound	Elev
(51)	6.1	1.0
1+00	6.2	1.1
	6.1	1.0
	6.1	
1208	6.1	
	6.1	
50	6.1	1.0
	6.2	1.1
	6.2	
	6.2	
	6.2	
2+00	6.2	1.1

(Plotted Roll 24)

(contd. P.17)

50

Dist	Sound	Elev
3+00		

N153+00; 0+00 = W7,200'; SOUND WEST

Dist	Sound	Elev
0-50		
(32)	0.0	+3.2
216	2.0	+1.2
	2.9	+0.3
	3.9	0.7
1+00	4.3	1.1
	4.9	1.7
	5.6	2.4
	6.0	2.8
	6.7	3.0
50	6.1	2.9
	6.4	3.2
	6.6	3.4
	7.0	3.8
	7.0	
2+00	7.0	
	7.0	3.8
	7.2	4.0
	7.4	4.1

Dist	Sound	Elev
(32)	7.4	4.2
50	7.4	4.2
	7.6	4.4
	7.7	4.5
	7.7	4.5
	7.8	4.6
3+00	7.8	4.6
	7.9	4.7
	7.9	4.7
	7.7	4.5
	7.8	4.6
50	7.8	4.6
	7.8	4.6
	8.0	4.8
	8.0	
	8.0	
4+00	8.0	
	8.0	
	8.0	4.8
	8.0	4.8
50	8.1	4.9

1-23-58 (Plotted R-24)

N.154+00; 0+00 = W.7,160; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+50			(31)	6.2	3.1
(31)	0.0	+3.1	50	6.1	3.0
2:20	0.1	+3.0		6.4	3.3
	0.5	+2.6		6.8	3.7
	0.5	+2.6		6.7	3.6
1+00	0.9	+2.2		7.0	3.9
	1.2	+1.9	3+00	7.4	4.3
	1.8	+1.3		7.5	4.4
	3.1	0.0		7.8	4.7
	3.4	0.3		7.8	4.7
1-50	3.0	+0.1		7.7	4.6
	5.0	1.9	50	7.7	4.6
	5.1	2.0		7.7	4.6
	4.4	1.3		7.6	4.5
	5.0	1.9		7.6	
2+00	6.2	3.1		7.6	
	6.4	3.3	4+00	7.6	4.5
	6.8	3.7		7.8	4.7
	6.0	2.9		7.9	4.8
				8.0	4.9
				8.0	4.9
			50	8.0	4.9

(27)

N155+00; 0+00 = W.7,160; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+50	0.2	+2.7	(29)	5.8	2.9
(29)	0.8	+2.1	50	6.8	3.9
2:33	1.4	+1.5	2:35	6.8	3.9
	1.9	+1.0		6.8	3.9
	2.0	+0.9		7.0	4.1
1+00	2.6	+0.3		7.2	4.3
	2.9	0.0	3+00	7.3	4.4
	3.3	0.4		8.1	5.2
	3.8	0.9		8.1	5.2
	4.0	1.1		8.4	5.5
50	4.5	1.6		8.5	5.6
	5.0	2.1	50	8.5	5.6
	5.3	2.4		8.6	5.7
	3.2	0.3		8.8	5.9
	4.0	1.1		8.8	5.9
2+00	6.0	3.1		8.5	5.6
	4.9	2.0	4+00	8.7	5.8
	6.1	3.2		8.6	5.7
	5.7	2.8		8.6	5.7
				8.8	5.9
				8.5	5.6
			50	8.3	5.4

(Cont'd Pg 42)

1-23-58. (Plotter R-24)

N 156+00; 0+00 = W. 7,160; SOUND WEST

Dist	Sound	Elev.
40	0.2	+2.6 ✓
0+50	0.3	+2.5
(28)	0.5	+2.3
2:45	1.1	+1.7
	1.9	+0.9
	2.2	+0.6
1+00	2.9	0.1 ✓
	3.4	0.6
	4.1	1.3
	4.1	1.3
	4.1	1.3
1 50	4.2	1.4
	3.8	1.0
	4.5	1.7
	4.9	2.1
	5.2	2.4
2+00	6.1	3.3 ✓
	6.3	3.5
	6.7	3.9
	7.3	4.5

Dist	Sound	Elev.
(28)	7.0	4.2
50	7.5	4.7
	7.9	5.1
	8.0	5.2
	8.1	5.3
	8.1	
3+00	8.1	
	8.1	
	8.1	
	8.1	
	8.1	
50	8.1	
	8.1	
	8.1	
	8.1	
	8.1	
	8.1	
4+00	8.1	5.3 ✓
(Contd West P942)		

NOTE: Last Indication of Rond at 1.5 N. 157+50 From Shore

N. 157+00; 0+00 = W. 7,160; SOUND WEST

(28)

Dist	Sound	Elev.
0+00		
(27)		
2:50		
	0.7	+2.0
	1.1	+1.6
50	1.3	+1.4
	1.4	+1.3
	2.1	+0.6
	3.1	0.4
	3.2	0.5
1+00	3.5	0.8
	4.2	1.5
	4.3	1.6
	4.7	2.0
	4.8	2.1
50	5.3	2.6
	6.2	3.5
	5.4	2.7
	6.2	3.5

Dist	Sound	Elev.
(27)	6.3	3.6
2+00	5.9	3.2
	6.4	3.7
	7.0	4.3
	7.9	5.2
	8.2	5.5
50	8.2	5.5
	8.2	5.5
	8.3	5.6
	8.2	5.5
	8.2	5.5
	8.3	5.6
	8.3	
	8.3	
50	8.3	5.6
	8.2	5.5
~~50~~	8.1	5.4
	8.1	
	8.1	
4+00	8.1	5.4
(Contd P943)		

1-23-58 (Plotted R-24)

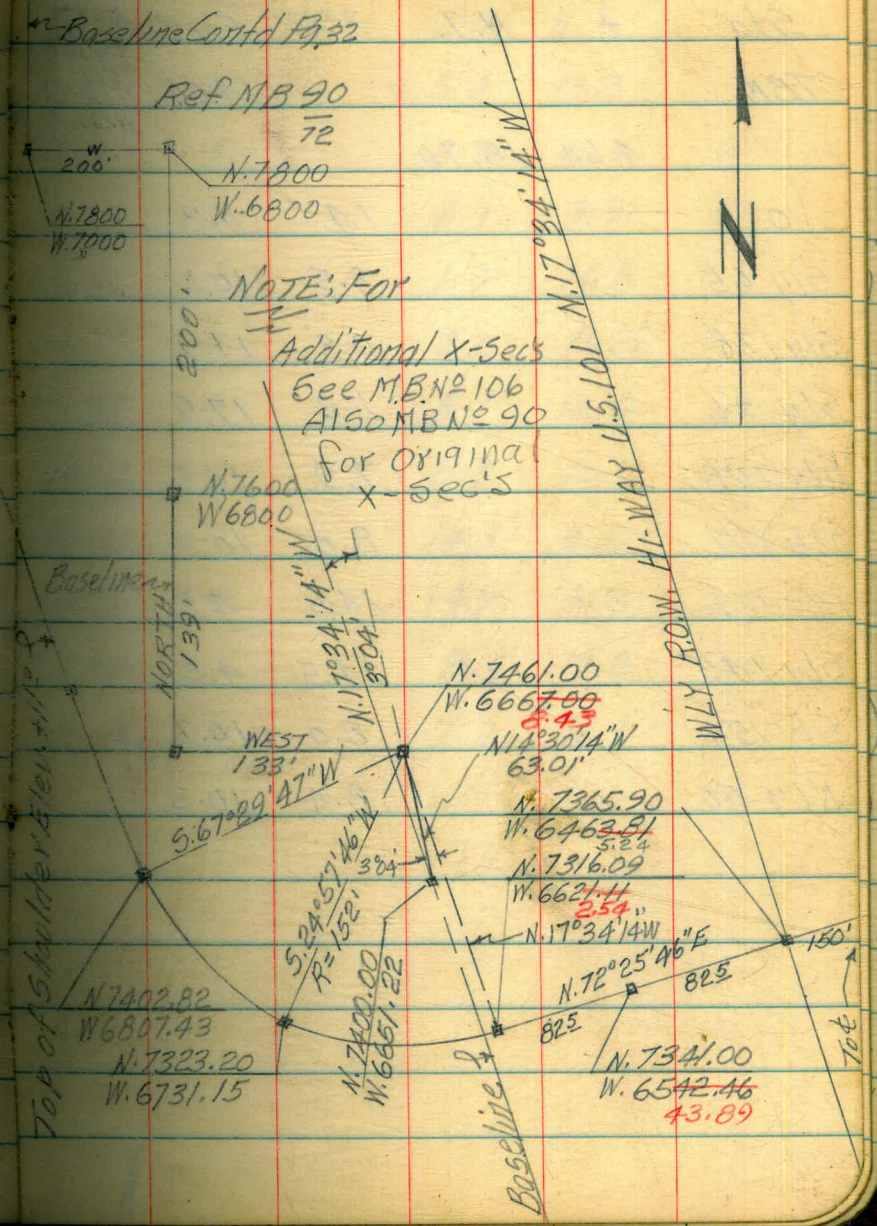
N 158+00 : 0+00 = W 7160 : SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	0.0	+2.5	25	8.1	5.6
25	0.6	+1.9	2+00	8.1	
3:00	1.2	+1.3		8.1	
	1.5	+1.0		8.1	
	2.2	+0.3		8.1	
50	3.4	0.9		8.1	
	4.3	1.8	50	8.1	
	5.0	2.5		8.1	
	5.7	3.2		8.1	
	6.2	3.7		8.1	
1+00	6.8	4.3		8.1	
	7.3	4.8	3+00	8.1	
	7.4	4.9		8.1	
	7.7	5.2		8.1	
	8.0	5.5	50	8.1	
50	8.1	5.6		8.1	
	8.1			8.1	
	8.1			8.1	
	8.1	5.6	4+00	8.1	5.6

(Contd West Pg 43)

CROSS SECTION ELY. SHORE SHOULDER FOR FUTURE DREDGER ESTIMATES

← Baseline Contd Fr. 32



1-27-58

N.7365.90; W.6463.81 = 0+00 SEC. ALONG US 101, R.O.W.

(See Sketch Pg 29)

Sta	+	H.I.	-	Elev
TBM.				14.06
	4.64	18.70		
0			7.4	11.3
Sly 65			8.5	10.2
Sly 78			0.8	17.9
Sly 96			1.2	17.5
Sly 108			7.2	10.8
Sly 117			8.0	10.7
Sly 122			14.5	4.2
Sly 145			14.5	4.2
Sly 154			8.0	10.7
N14 50			8.4	10.3

NB 30 87 PK Papine 5270 N.7360 ± W.5140 ± U.S. 101

N.7341.00; W.6542.46 = 0+00 SEC. 11 TO ROW & 825 W'LY

Sta	+	H.I.	-	Elev
0		18.70	7.4	11.3
Sly 7			5.4	13.3
Sly 12			8.3	10.4
Sly 49			8.9	9.9
Sly 62			1.9	16.8
Sly 77			22	16.5
Sly 87			8.1	10.6
Sly 114			8.0	10.7
Sly 120			14.9	3.8
Sly 139			14.9	3.8
Sly 144			8.5	10.2
N14 50			7.6	11.1

1-27-58

N.7316.09; W.6621.11 = 0+00; SEC. 11 TO ROW @ 165' WLY.

Sta	+	H.I.	-	Elev
0		18.70	8.4	10.3
S14 13			8.8	8.9
S14 25			14.8	3.9
S14 34			14.8	3.9
S14 51			8.5	10.2
S14 125			8.1	10.6
N14 18			2.8	15.9
N14 35			2.5	16.2
N14 49			7.6	11.1
N14 100			7.3	11.4

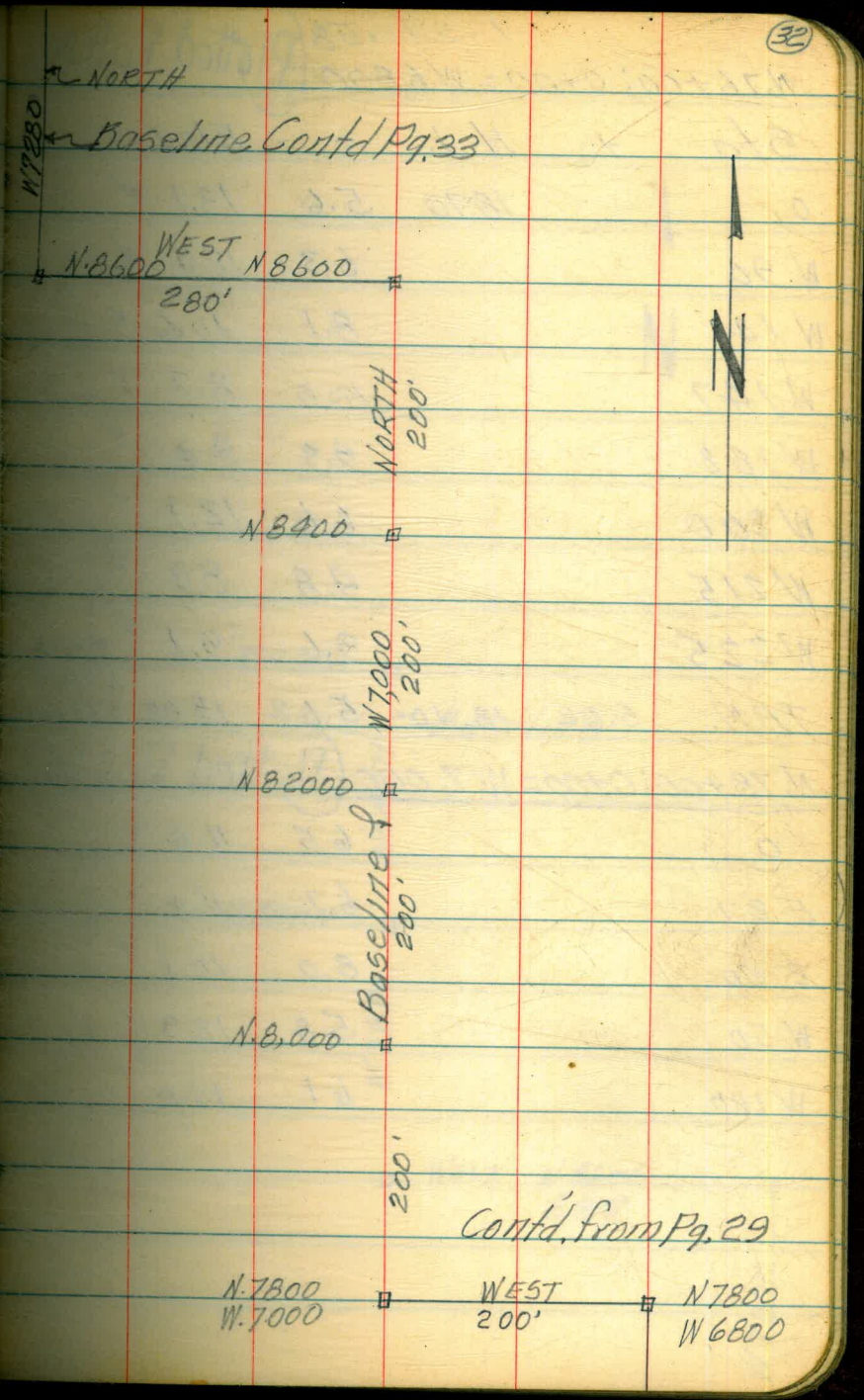
N7323.20; W.6731.15 = 0+00 POC. SEC. 5. 24°57'46"W

Sta	+	H.I.	-	Elev
0		18.70	8.7	10.0
S14 23			8.2	10.5
S14 26			11.0	7.7
S14 35			11.0	7.7
S14 42			8.8	9.9
S14 125			7.8	10.9
N14 11			9.5	9.2
N14 20			15.2	3.5
N14 32			15.2	3.5
N14 40			9.3	9.4
N14 50			9.0	9.7
N14 66			2.6	16.1
N14 78			2.2	16.5
N14 87			7.2	11.5
N14 100			7.2	11.5

1-27-58

N.7402.82 W.6807.43 = 0+00 EC. SEC. 5. 67°29'47" W

Sta	+	H.I.	-	Elev
0		18.70	15.0	3.7
S 1/4 22			15.0	3.7
S 1/4 30			9.3	9.4
S 1/4 60			9.0	9.7
S 1/4 125			9.0	9.7
N 1/4 13			8.7	10.0
N 1/4 26			8.2	10.5
N 1/4 39			2.7	16.0
N 1/4 52			2.7	16.0
N 1/4 60			6.6	12.1
N 1/4 100			6.8	11.9



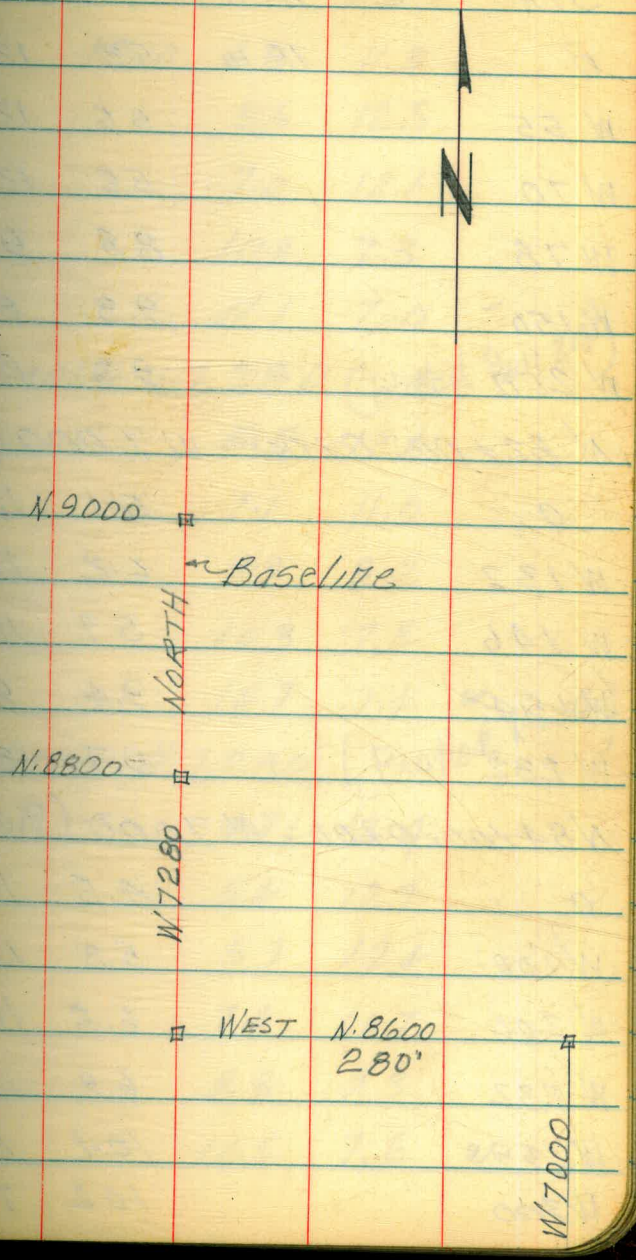
1-27-58

N.76+00; 0+00 = W6,800 (Plotted Roll 24)

Sta	+	H.I.	−	Elev	
0		18.70	5.6	13.1	✓
W 90			6.3	12.4	✓
W 141			8.1	10.6	✓
W 147			10.0	8.7	✓
W 188			9.3	9.4	✓
W 200			6.6	12.1	✓
W 215			9.8	8.9	✓
W 225			9.6	9.1	✓ Stub N 7600 W 6800
TBM.	5.02	18.10	5.62	13.08	

N.78+00; 0+00 = W 7,000 (Plotted Roll 24)

0			6.5	11.6	✓
E 27			6.7	11.4	✓
E 50			8.0	10.1	✓
W 50			5.8	12.3	✓
W 100			6.1	12.0	✓



1-28-58

N80+00; 0+00 = W. 7,000 (Plotted Roll 24)

Sta	+	H.I.	−	Elev
0		18.10	5.2	12.9
W 55			5.5	12.6
W 70			5.5	12.6
W 78			8.8	9.3
W 150			9.3	8.8
W 200			9.3	8.8

N 82+00; 0+00 = W 7,000 (Plotted R-24)

0			5.1	13.0
W 132			6.2	11.9
W 146			5.7	12.4
W 154			9.4	8.7
W 232			9.7	8.4

N84+00; 0+00 = W. 7,000 (Plotted Roll-24)

0			4.5	13.6
W 100			5.3	12.8
W 200			6.5	11.6
W 232			6.9	11.2
W 239			10.1	8.0
W 300			10.2	7.9

(34)

N86+00; 0+00 = W. 7,280 (Plotted Roll 24)

Sta	+	H.I.	−	Elev
0		18.10	6.8	11.3
E 50			5.6	12.5
W 6			7.0	12.1
W 15			10.8	7.3
W 60			11.1	7.0

N88+00; 0+00 = W 7,280 (Plotted Roll 24)

0			5.5	12.6
W 68			7.1	11.0
W 77			9.9	8.2
W 100			10.3	7.8
W 190			10.7	7.4

N90+00, 0+00 = W. 7,280 (Plotted R-24)

0			4.7	13.4
W 100			5.4	12.7
W 133			5.7	12.4
W 142			7.4	10.7
W 200			8.8	9.3
W 270			10.5	7.6

1-28-58

N.92+00; 0+00 = W. 7,750 (Plotted Roll 24)

Sta	+	H.I	-	Elev	
0		18.10	13.0	5.1	
E 8			12.8	5.3	
E 9			11.8	6.3	
E 100			11.5	6.6	
E 180			11.4	6.7	
E 253			9.8	8.3	
E 260			7.4	10.7	
E 300			6.5	11.6	W

N 94+00; 0+00 = W. 7640 (Plotted Roll-24)

0			12.5	5.6	
E 60			10.5	7.6	
E 70			6.0	12.1	
E 100			7.0	11.1	W

N 96+00; 0+00 = W 7750 (Plotted Roll-24)

0			12.8	5.3	
E 30			12.4	5.7	
E 50			10.0	8.1	
E 70			9.7	8.4	W
~~E 93~~			~~13.1~~	~~5.1~~	

N. 96+00 CONTD EAST

Sta	+	H.I.	-	Elev	
TP.		18.10	9.86	8.24	
E 98	9.44	17.68	8.3	9.4	
E 100			7.5	10.6	
E 150			4.6	13.1	W

N 96+00; 0+00 = W. 7,800 (Plotted R-24)

0			11.5	6.2	
E 12			10.9	6.8	
E 25			6.2	11.5	
E 100			4.7	13.0	W

N. 100+00; 0+00 = W 7,900 (Plotted R-24)

0			11.6	6.1	
E 11			10.9	6.8	
E 21			5.9	11.8	
E 50			6.3	11.4	
E 100			4.7	13.0	W

1-28-58

N102+00; 0+00 = W 8,000 (Plotted R-24)

Sta	+	H.I.	=	Elev.	
0		17.68	13.0	4.7	-
E25			11.2	6.5	-
E38			5.5	12.2	-
E50			6.0	11.7	-
E100			4.9	12.8	- m

N104+00; 0+00 = W 8,000 (Plotted R-24)

0			5.0	12.7	-
E30			4.6	13.1	-
W13			4.8	12.9	-
W24			10.9	6.8	
W40			13.0	4.7	- m

N106+00; 0+00 = W. 8,000 (Plotted R-24)

0			4.4	13.3	-
E50			4.6	13.1	-
W45			4.6	13.1	-
W60			10.6	7.1	-
W80			12.1	5.6	- m

(Plotted R-24) 36

N108+00; 0+00 = W 8,000

Sta	+	H.I.			
0		17.68	5.8	11.9	-
W50			5.0	12.7	-
W60			10.8	6.9	-
W80			12.5	5.2	- m

N110+00; 0+00 = W. 8,000 (Plotted R-24)

0			5.7	12.0	-
W34			5.8	11.9	-
W45			10.9	6.8	-
W100			14.4	3.3	- m

N112+00; 0+00 = W 8,000 (Plotted R-24)

0			6.2	11.5	-
E50			5.2	12.5	-
W14			5.9	11.8	-
W25			10.6	7.1	-
W50			12.7	5.0	- m

1-28-58 (Plotted R-24)

N.114+00; 0+00 = W 8,000

Sta	+	H.I	-	Elev
0		17.68	9.9	7.8
E 8			9.6	8.1
E 15			5.6	12.1
E 50			5.6	12.1
W. 60			12.5	5.2 — m

N.116+00; 0+00 = W 8,000 (Plotted R-24)

0			12.1	5.6
E 37			10.9	6.8
E 52			6.5	11.2
E 100			6.0	11.7 — m

N.118+00; 0+00 = W 7,940 (Plotted R-24)

0			12.2	5.5
E 31			11.2	6.5
E 48			5.9	11.8
E 100			6.8	10.9 — m
TP.			5.86	11.82
	5.19	17.01		

(Plotted R-24) (57)

N.120+00; 0+00 = W 7870

Sta	+	H.I	-	Elev
0		17.01	11.3	5.7
E 37			10.4	6.6
E 50			4.9	12.1
E 100			5.2	11.8 — m

N 122+00; 0+00 = W 7800 (Plotted R-24)

0			11.2	5.8
E 57			9.3	7.7
E 66			5.7	11.3
E 100			6.0	11.0 — m

N 124+00; 0+00 = W 7700 (Plotted R-24)

0			11.8	5.2
E 30			11.0	6.0
E 40			5.6	11.4
E 100			5.4	11.6 — m

N 126+00; 0+00 = W 7630 (Plotted R-24)

0			11.9	5.1
E 44			10.1	7.0
E 54			6.6	11.1
E 100			5.9	11.1 — m

1-28-58

N.128+00; 0+00 = W 7550 (Plotted R-24)

Sta	+	H.I.	-	Elev
0		17.01	11.6	5.4
E34			9.6	7.4
E47			5.1	11.9
E100			4.8	12.2

N130+00; 0+00 = W 7,520 (Plotted R-24)

0			11.7	5.3
E44			10.4	6.6
E56			5.6	11.4
E100			5.9	11.1

N132+00; 0+00 = W 7,550 (Plotted R-24)

0			12.1	4.9
E50			10.4	6.6
E58			6.3	10.7
E100			5.9	11.1

N134+00; 0+00 = W 7,600 (Plotted R-24)

0			12.4	4.6
E55			10.5	6.5
E65			6.1	10.9
E100			5.5	11.5

(Plotted - R-24) (38)

N.136+00; 0+00 = W. 7,650

Sta	+	H.I.	-	Elev
0		17.01	12.1	4.9
E65			10.0	7.0
E72			5.5	11.5
E100			5.8	11.2
E150			5.2	11.8

N138+00; 0+00 = W 7,720 (Plotted R-24)

0			12.4	4.6
E105			9.3	7.7
E113			5.8	11.2
E200			4.1	12.9

N140+00; 0+00 = W 7,720 (Plotted R-24)

0			12.5	4.5
E95			9.6	7.4
E103			5.8	11.2
E200			5.3	11.7
TP			6.18	10.83
		6.18	17.01	

Cont'd. P. 13

1-28-56 (Plotted - R-24)

N.142+00; 0+00 = W. 7,700

Sta	+	H.I.	-	Elev.
0		17.01	13.1	3.9 ✓
E 90			10.8	6.2 ✓
E 100			6.3	10.7 ✓
E 200			5.5	11.5 ✓ nm

N.144+00; 0+00 = W. 7,650 (Plotted R-24)

0			13.0	4.0 ✓
E 74			10.9	6.1 ✓
E 82			5.9	11.1 ✓
E 100			6.3	10.7 ✓
E 150			6.2	10.8 ✓ nm

N.146+00; 0+00 = W. 7,600 (Plotted R-24)

0			12.9	4.1 ✓
E 40			11.5	5.5 ✓
E 75			10.4	6.6 ✓
E 84			6.5	10.5 ✓
E 100			6.4	10.5 ✓
E 150			6.1	10.9 ✓ nm

N.148+00; 0+00 = W. 7,500

Sta	+	H.I.	-	Elev
0		17.01	13.2	3.8 ✓
E 104			10.7	6.3 ✓
E 117			5.9	11.1 ✓ (Plotted Roll 24)
E 200	contd. P. 24		6.0	11.0 ✓

N.150+00; 0+00 = W. 7,400 (Plotted Roll 24)

0			13.4	3.6
E 70			12.0	5.0
E 119			10.5	6.5
E 130			6.7	10.1
E 200	(contd P. 25)		6.7	10.1

N.152+00; 0+00 = W. 7,300 (Plotted R 24)

0			14.1	2.9 ✓
E 68			11.6	5.4 ✓
E 96			10.7	6.3 ✓
E 108			5.9	11.1 ✓
E 200			5.5	11.5 ✓ nm

1-28-58

N153+00; 0+00 = W 7,200

Sta	+	H.I.	-	Elev
0		17.01	11.6	5.4
E27			10.5	6.5
E36			7.2	9.8
E100			5.5	11.5
W 60			13.8	3.2

N154+00; 0+00 = W 7,160 (Plotted R-24)

0			12.6	4.4
E14			10.7	6.3
E23			5.7	11.3
E100			4.9	12.1
W 60			13.9	3.1 NM

N155+00; 0+00 = W 7160

0			13.0	4.0
E F13			12.7	4.3
E 27			10.8	6.2
E 36			6.1	10.9
E100			5.7	11.3
W 50			14.3	2.7

(cont'd P. 42)

(Plotted R-24) 40

N156+00; 0+00 = W 7,160

Sta	+	H.I.	-	Elev
0		17.01	13.1	3.9
E19			12.2	4.8
E34			10.4	6.6
E42			5.9	11.1
E100			5.4	11.6
W 40			14.4	2.6

(cont'd P. 42)

N157+00; 0+00 = W 7,160

0			12.9	4.1
E30			11.8	5.2
E38			10.6	6.4
E47			5.8	11.2
E100			4.6	12.4
W 30			15.0	2.0

(cont'd P. 43)

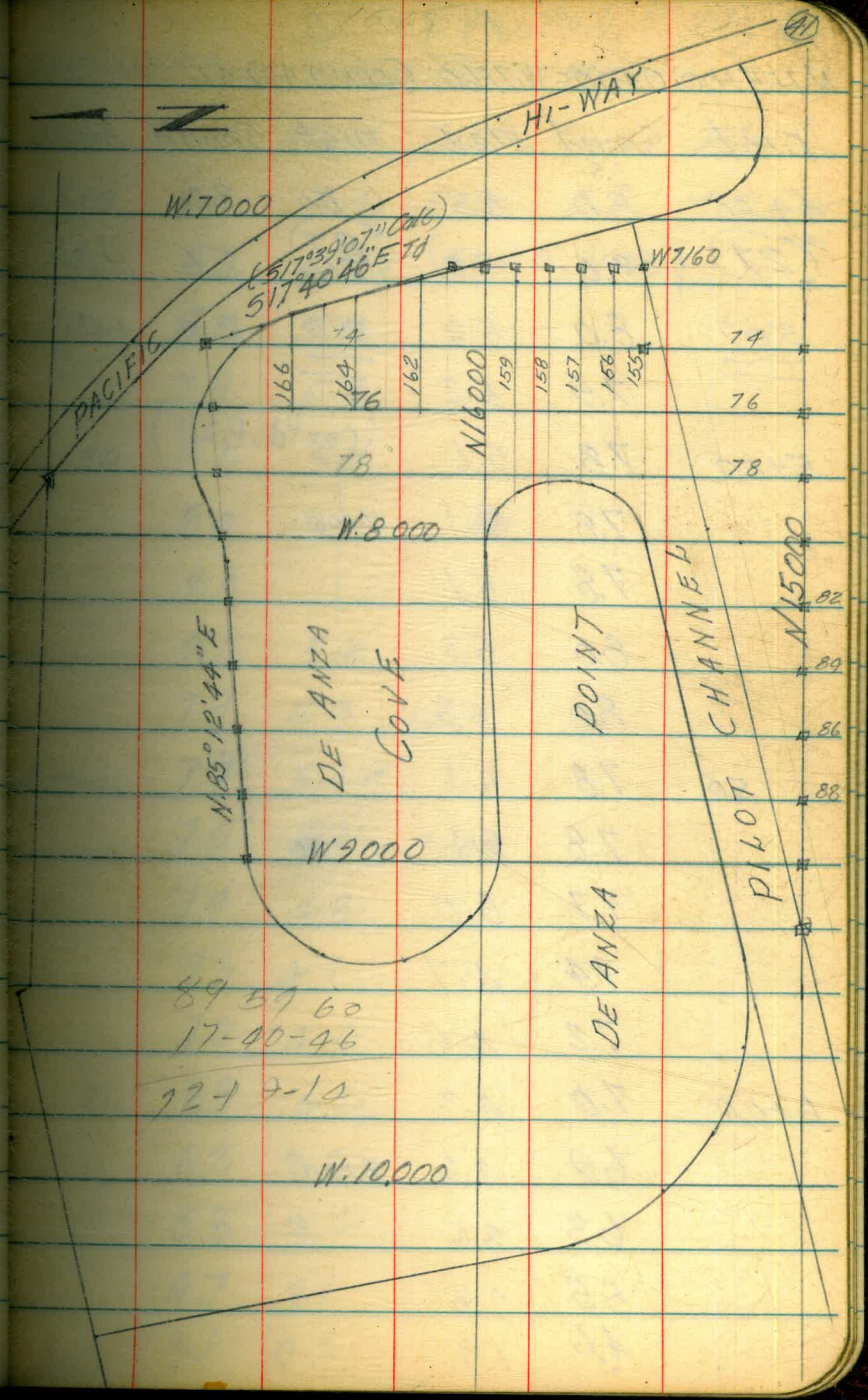
N 158+00; 0+00 = W. 7,160 (Plotted R-24)

0			14.6	2.4
E 38			11.7	5.3
E 47			5.6	11.4
E 100			5.7	11.3
B.M.			3.49	13.52 – 13.53

MB 90-P 51 C&MS / ΠECWN Hdwall Hi-way Sta 182+25

BASELINE FOR SOUNDINGS DE ANZA COVE & VICINITY W.O. 64501 (Ref. MB99)

Sta		B/L Dist	Bearing
N.16706.14	W9200	200.70	N.85°12'44"E.
N.16722.89	W9000	"	"
N.16739.64	W8800	"	"
N16756.39	W8600	"	"
N16773.14	W8400	"	"
N16789.89	W8200	"	"
N16806.64	W8000	"	"
N16823.39	W7800	"	"
N16840.14	W7600	200.70	N85°12'44"E
P.I. N16856.89	W7400	269.58	N17°39'07"W
N166+00	W7138.24	209.88	"
N164+00	W7254.60	209.88	"
N162+00	W7190.96	106.54	N17°39'07"W
N160+98.48	W7158.66		



1-29-58

N.155+00; 0+00 = W.7160; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
	7.8				
4+60	8.0	5.3	50	3.4	0.7
(27)	8.0	5.3	(27)	2.6	+0.1
3.07	8.0	5.3	3.10	2.0	+0.1
	7.9	5.2			
			(cont'd. P.27)		
5+00	7.8	5.1			
	7.8	5.1	7+00		
	7.8	5.1			
	8.0	5.3			
	8.0	5.3			
50	7.8	5.1			
	7.8	5.1	50		
	7.7	5.0			
	7.4	4.7			
	7.2	4.5			
6+00	7.0	4.3			
	6.9	4.2	8+00		
	6.3	3.6			
	5.5	2.8			
	4.6	1.9			

(Plotted P 24) (92)

N.156+00; 0+00 = W.7160; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
	7.9				
4+10	8.0	5.4	6+00	2.1	+0.5
(26)	8.0	5.4	(cont'd. P.28)		
2.56	8.0	5.4			
	7.9	5.3			
50	8.0	5.4			
	8.0		50		
	8.0				
	8.0	5.4			
	7.9	5.3			
5+00	7.7	5.1			
	7.5	4.9	7+00		
	7.4	4.8			
	7.3	4.7			
	7.0	4.4			
50	6.8	4.2			
	6.2	3.8			
	5.8	3.2			
	4.7	2.1			
	3.1	0.5			

1-29-58

N.157+00; 0+00 = W.7160; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
4+10	8.0	5.5	6+00		
(23)	8.2	5.7			
238	8.5	6.0			
	8.5				
50	8.5				
	8.5	6.0	50		
	8.2	5.7			
	8.1	5.6			
	8.1	5.6			
5+00	8.0	5.5			
	7.9	5.4	7+00		
	7.4	4.9			
	6.8	4.3			
	6.3	3.8			
50	5.0	2.5			
	3.2	0.7			
	2.1	+0.4			

(Plotted R-24) 43

N.158+00; 0+00 = W.7160; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
4+10	8.1	5.6	6+00		
(23)	8.1		(contd. p. 29)		
214.0	8.1				
	8.1				
50	8.1				
	8.1		50		
	8.1				
	8.1				
	8.1	5.6			
5+00	8.0	5.5			
	7.5	5.0	7+00		
	7.1	4.6			
	6.9	4.4			
	6.1	3.6			
50	5.1	2.6			
	3.8	1.3			
	2.8	0.3			

1-29-58

N.159+00; 0+00 = W.7160; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+40	0.4	+2.0			
0+50	0.9	+1.5	(24)	8.7	6.3
(24)	1.5	+0.9	50	8.7	6.3
2:27	2.3	+0.1	2:30	8.7	6.3
	3.2	0.8		8.8	6.4
	4.9	2.5		8.9	6.5
1+00	5.9	3.5		8.9	6.5
	6.5	4.1	3+00	9.0	6.6
	6.9	4.5		9.0	6.6
	7.2	4.8		8.8	6.4
	7.5	5.1		9.0	6.6
50	7.9	5.5		9.1	6.7
	8.0	5.6	50	9.0	6.6
	8.0	5.6		9.1	6.7
	8.2	5.8		9.2	6.8
	8.1	5.7		9.1	6.7
2+00	8.2	5.8		9.1	6.7
	8.2	5.8	4+00	9.1	6.7
	8.3	5.9		9.2	6.8
	8.5	6.1		9.2	6.8

N.159+00 WEST

Dist	Sound	Elev	Dist	Sound	Elev
(24)	9.3	6.9			
	9.3	6.9			
50	9.1	6.7	50		
	9.0	6.6			
	9.0	6.6			
	8.9	6.5			
	8.9	6.5			
5+00	8.7	6.3	7+00		
	8.2	5.8			
	8.0	5.6			
	8.0	5.6			
	7.5	5.1			
50	7.0	4.6			
	6.5	4.1			
	5.9	3.5			
	5.2	2.8			
	4.5	2.1			
6+00	3.5	1.1			
	2.8	0.4			
	2.0	+0.4			

1-29-58 (Plotted R-24)

N.160+00; 0+00 = W.7,160; SOUND WEST

Dist	Sound	Elev
0+50		
23		
2;15.	0.6	+1.7
	1,1	+1,2
	1.9	+0.4
1+00	2.9	0.6
	4.5	2.2
	5.3	3.0
	6.2	3.9
	7.0	4.7
50	7.3	5.0
	7.9	5.6
	8.1	5.8
	8.2	5.9
	8.2	5.9
2+00	8.2	5.9
	8.6	6.3
	8.5	6.2
	8.5	6,2

Dist	Sound	Elev
23	8.5	6.2
50	8.6	6.3
	8.6	6.3
	8.7	6.4
	8.7	6.4
	8.7	6.4
3+00	8.8	6.5
	8.9	6.6
	9.0	6.7
	9.0	
	9.0	
50	9.0	6.7
	8.9	6.6
	8.9	6.6
	8.8	6.5
4+00	8.8	6.5
	8.9	6.6
	9.0	6.7

N.160+00 WEST

Dist	Sound	Elev
24	9.0	6.6
	9.0	
50	9.0	
	9.0	6.6
	8.9	6.5
	8.8	6.4
	8.7	6.3
5+00	8.9	6.5
	8.8	6.4
	8.7	6.3
	8.7	6.3
	87	6.3
50	8.5	6.1
	8.5	6.1
	8.2	5.8
	7.9	5.5
	7.7	5.3
6+00	7.3	4.9
	7.0	4.6
	6.6	4.2

Dist	Sound	Elev
24	6.0	3,6
2;20	5.4	3.0
50	4.8	2.4
	4.0	1.6
	3.5	1,1
	3.0	0.6
	2.5	0.1
7+00	2.1	+0.3

1-29-58 (Plotted R-24)

N.162+00; 0+00 = W.7190.96; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+50			23	9.2	6.9
22			50	9.1	6.8
2:07				9.0	6.7
	0.1	+2.1		9.0	6.7
	0.7	+1.5		9.1	6.8
1+00	1.3	+0.9		9.1	
	2.0	+0.2	3+00	9.1	
	3.2	1.0		9.1	6.8
	5.0	2.8		9.2	6.9
	5.8	3.6		9.4	7.1
50	6.2	4.0		9.3	7.0
	6.9	4.7	50	9.3	7.0
	7.5	5.3	2:10	9.7	7.4
	8.0	5.8		10.0	7.7
	8.2	6.0		10.0	
2+00	8.7	6.5		10.0	
	8.9	6.7	4+00	10.0	7.7
	8.9	6.7		9.8	7.5
	8.9	6.7		9.9	7.6

(Plotted R-24) (46)

N.164+00; 0+00 = W.7254.60; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+50			22	9.0	6.8
22			50	9.0	6.8
2:00	0.2	+2.0		9.0	6.8
	0.7	+1.5		8.8	6.6
	1.3	+0.9		8.8	6.6
1+00	2.2	0.0		8.9	6.7
	3.1	0.9	3+00	8.9	6.7
	4.8	2.6		8.9	6.7
	5.7	3.5		9.0	6.8
	6.2	4.0		9.0	
50	6.9	4.7		9.0	
	7.2	5.0	50	9.0	6.8
	8.0	5.8			
	8.2	6.0			
	8.4	6.2			
2+00	8.7	6.5			
	8.9	6.7			
	9.0	6.8			
	9.0	6.8			

1-29-58 (Plotted R24)

N.166+00; 0+00 = W.7318.24; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+50			(21)	8.8	6.7
(21)			50	8.8	6.7
				8.9	6.8
1:50				8.9	6.8
	0.5	+1.6		9.0	6.9
	1.0	+1.1		9.1	7.0
1+00	1.7	+0.4		9.3	7.2
	2.5	0.4	3+00	9.3	7.2
	4.0	1.9		9.3	7.2
	5.0	2.9		9.3	7.2
	6.0	3.9		9.5	7.4
50	6.5	4.4		9.5	7.4
	7.0	4.9	50	9.3	7.2
	7.7	5.6			
	8.0	5.9			
	8.1	6.0			
2+00	8.3	6.2			
	8.7	6.6			
	8.8	6.7			
	8.9	6.8			

1-30-58 (47)

W.71+00; 0+00 = N.15500; SOUND NORTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00	4.1	2.5	(16)	7.0	5.4
(1.6)	4.2	2.6	2+00	7.0	5.4
11:05	5.0	3.4		7.1	5.5
	5.0	3.4		7.2	5.6
	5.2	3.6		7.2	
50	5.5	3.9		7.2	
	6.0	4.4	50	7.2	5.6
	5.9	4.3		7.3	5.7
	5.8	5.2		7.3	5.7
	6.0	4.4		7.6	6.0
1+00	6.0	4.4		7.5	5.9
	6.2	4.6	3+00	7.8	6.2
	6.8	5.2		7.4	5.8
	6.7	5.1		7.8	6.2
	6.9	5.3		7.8	6.2
50	7.0	5.4		7.8	6.2
	7.0	5.4	50	7.5	5.9
	7.0	5.4			
	7.0	5.4			

W 74+00; SOUND SOUTH 1-30-58

Dist	Sound	Elev	Dist	Sound	Elev
0+10	4.9	3.3	16	4.7	3.1
16	4.8	3.2		4.1	2.5
11:10	5.0	3.4		3.0	1.4
	4.6	3.0		2.0	0.4
50	5.2	3.6	50	1.4	+0.8
	5.2	3.6			
	5.2	3.6			
	5.0	3.4			
	5.0	3.4			
1+00	4.6	3.0			
	4.5	2.9			
	4.2	2.6			
	4.8	3.2			
	4.8	3.2			
50	4.4	2.8			
	5.0	3.4			
	5.1	3.5			
	5.3	3.7			
	5.3	3.7			
2+00	5.0	3.4			

W 80+00; 0+00 = N 15,000; SOUND NORTH (48)

Dist	Sound	Elev	Dist	Sound	Elev
0+00	1.8	0.4	2+00	5.3	3.9
14	1.9	0.5	14	5.3	3.9
11+25	1.9	0.5		5.3	3.9
	2.0	0.6		5.2	3.8
	2.0			5.2	3.8
50	2.0		50	5.3	3.9
	2.0			5.3	3.9
	2.0	0.6		5.2	3.8
	2.3	0.9		5.2	
	2.5	1.1		5.2	
1+00	3.1	1.7	3+00	5.2	3.8
	4.1	2.7		5.3	3.9
	5.1	3.7		5.3	3.9
	5.3	3.9		5.2	3.8
	5.4	4.0		5.1	3.7
50	5.4	4.0	50	4.9	3.5
	5.5	4.1		4.6	3.2
	5.3	3.9		4.1	2.7
	5.2	3.8		3.2	1.8
	5.3	3.9		2.1	0.7

W. 82+00; 0+00 = N15,000 SOUND NORTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00	2.7	1.3	2+00	5.7	4.3
(14)	2.6	1.2	(14)	5.7	4.3
11:35	2.8	1.4		5.5	4.1
	2.8	1.2		5.6	4.2
	3.0	1.6		5.6	4.3
50	3.4	2.0	50	5.4	4.0
	4.7	3.3		5.2	3.8
	5.5	4.1		5.1	3.7
	5.9	4.5		5.0	3.6
	6.0	4.6		4.8	3.4
1+00	5.9	4.5	3+00	4.4	3.0
	5.9	4.5		3.8	2.4
	6.0	4.6		2.6	1.2
	6.0	4.6			
	6.1	4.7			
50	6.1	4.7	50		
	6.0	4.6			
	6.0	4.6			
	5.9	4.5			
	5.7	4.3			

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(49)

W. 76+00; 0+00 = N16840; SOUND SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00			(17)	7.9	6.2
			2+00	8.0	6.3
(17)				8.2	6.5
				8.5	6.8
12:55				8.8	7.1
50	0.5	+1.2		8.9	7.2
	1.4	+0.3	50	8.8	7.1
	2.0	0.3		8.8	
	2.9	1.2		8.8	
	4.1	2.4		8.8	
1+00	4.8	3.1		8.8	
	5.4	3.7	3+00	8.8	7.1
	6.2	4.5		8.9	7.2
	6.6	4.9		9.0	7.3
	7.0	5.3		9.0	
50	7.2	5.5		9.0	
	7.3	5.6	50	9.0	7.3
	7.6	5.9		9.2	7.5
	7.9	6.2		9.2	7.5

W.76+00 CONTD SOUTH 1-29-58

Dist	Sound	Elev	Dist	Sound	Elev
(17)	9.0	7.3	(17)	9.3	7.6
	9.0		1+00	9.3	7.6
4+00	9.0		6+00	9.3	7.6
	9.0			9.5	7.8
	9.0	7.3		9.4	7.7
	8.9	7.2		9.5	7.8
	8.9	7.2		9.5	7.8
50	8.8	7.1	50	9.5	7.8
	8.9	7.2		9.4	7.7
	8.9	7.2		9.6	7.9
	9.0	7.3		9.4	7.7
	9.0	7.3		9.3	7.6
5+00	9.1	7.4	7+00	9.3	7.6
	9.0	7.3		9.0	7.3
	9.3	7.6		9.0	
	9.2	7.5		9.0	
	9.3	7.6		9.0	
50	9.5	7.8	50	9.0	
	9.4	7.7		9.0	
	9.2	7.5		9.0	7.3

W.76+00; SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
(17)	9.0	7.3	(17)	8.7	7.0
	9.2	7.5		8.5	6.8
8+00	8.9	7.2	10+00	8.5	6.8
	8.9			8.3	6.6
	8.9			8.2	6.5
	8.9			8.2	6.5
	8.9			8.1	6.4
50	8.9		50	8.1	6.4
	8.9	7.2		8.1	6.4
	8.8	7.1		8.0	6.3
	8.8			8.2	6.5
	8.8			8.0	6.3
9+00	8.8	7.1	11+00	8.0	6.3
	9.0	7.3		8.0	6.3
	8.9	7.2		7.8	6.1
	8.9	7.2		7.8	6.1
	8.9	7.2		7.9	6.2
50	8.8	7.1	50	8.1	6.4
	8.8	7.1		8.0	6.3
	8.8	7.1		7.8	6.1

W.76+00 CONTD SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
(17)	7.8	6.1	(17)	7.3	5.6
	7.8	6.1		7.1	5.4
12+00	7.7	6.0	14+00	7.0	5.3
	7.8	6.1		7.0	5.3
	7.8	6.1		7.0	5.3
	7.5	5.8		6.9	5.2
	7.5	5.8		6.9	5.2
50	7.7	6.0	50	6.9	5.2
1;05	7.5	5.8		6.8	5.1
	7.8	6.1		6.8	5.1
	7.7	6.0		6.8	5.1
	7.5	5.8		6.5	4.8
13+00	7.4	5.7	15+00	6.5	4.8
	7.4			6.4	4.7
	7.4			6.3	4.6
	7.4	5.7		6.3	4.6
	7.6	5.9		6.1	4.4
50	7.6	5.9	50	6.0	4.3
	7.5	5.8		6.0	4.3
	7.3	5.6		6.0	4.3

W.76+00 SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
(17)	6.0	4.3	(17)	1.4	+0.3
	5.9	4.2		1.3	+0.4
16+00	5.6	3.9	18+00	1.3	+0.4
	5.1	3.4			
	4.4	2.7			
	3.4	1.7			
	2.8	1.1			
50	2.5	0.8			
	2.2	0.5			
	2.2	0.5			
	2.2	0.5			
	1.9	0.2			
17+00	2.0	0.3			
	1.9	0.2			
	1.9	0.2			
	1.8	0.1			
	1.8	0.1			
50	1.8	0.1			
	1.7	0.0			
	1.4	+0.3			

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W.78+00; 0+00 = N.1682339 SOUND SOUTH

Dist	Sound	Elev
0+00		
18		
1:22	0.7	+1.1
	1.3	+0.5
	2.1	0.3
50	3.2	1.4
	4.7	2.9
	5.5	3.7
	6.2	4.4
	6.8	5.0
1+00	7.2	5.4
	7.6	5.8
	7.7	5.9
	7.8	6.0
	8.0	6.2
50	8.0	
	8.0	
	8.0	
	8.0	6.2

Dist	Sound	Elev
18	8.0	6.2
2+00	8.2	6.4
	8.2	6.4
	8.1	6.3
	8.0	6.2
	8.0	
50	8.0	
	8.0	
3+00	8.0	
	8.0	
	8.0	
	8.0	
	8.0	6.2
	8.1	6.3
50	8.1	
	8.1	
	8.1	6.3

W.78+00 SOUTH

Dist	Sound	Elev
19	8.1	6.2
	8.1	6.2
4+00	8.2	6.3
	8.2	
11.25	8.2	
	8.2	
	8.2	
50	8.2	6.3
	8.3	6.4
	8.3	6.4
	8.3	6.4
	8.4	6.5
5+00	8.5	6.6
	8.6	6.7
	8.7	6.8
	8.7	6.8
	8.8	6.9
50	8.9	7.0
	8.9	7.0
	8.9	7.0
	8.9	7.0

Dist	Sound	Elev
19	8.9	7.0
	9.0	7.1
6+00	9.1	7.2
	9.1	7.2
	9.1	7.2
	9.1	7.2
	9.0	7.1
50	9.0	7.1
	9.0	7.1
	8.8	6.9
	8.8	6.9
8+00	8.7	6.8
	8.6	6.7
	8.6	6.7
	8.6	
	8.6	6.7
50	8.5	6.6
	8.3	6.4
	8.0	6.1
	7.7	5.8
	7.3	5.4
9+00	6.9	5.0
	6.3	4.4
	5.9	4.0
	5.4	3.5
	5.1	3.2
50	4.6	2.7
	4.0	2.1

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W 78+00; 0+00 = N. 15,000; SOUND NORTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00	1.1	+1.5	1.5	5.0	3.5
76	1.1	+1.5	2+00	5.0	
1117	1.1	+1.5		5.0	
	1.2	+1.4		5.0	
	1.2	+1.4	1120	5.0	3.5
50	1.3	+1.3		5.1	3.6
	1.3	+1.3	50	5.1	
	1.3	+1.3		5.1	
	1.4	+1.2		5.1	3.6
	1.5	+1.1		5.2	3.7
1+00	1.5	+1.1		5.2	3.7
	1.6	0.0	3+00	5.3	3.8
	1.7	0.1		5.3	3.8
	1.9	0.3		5.3	3.8
	2.2	0.6		5.4	3.9
50	2.9	1.3		5.7	4.2
	3.6	2.0	50	5.8	4.3
	4.6	3.0		5.8	4.3
	4.9	3.3		5.8	4.3

W. 78+00 NORTH

(53)

Dist	Sound	Elev	Dist	Sound	Elev
15	5.8	4.3			
	5.9	4.4			
4+00	6.0	4.5	6+00		
	6.0	4.3			
	6.1	4.6			
	6.1				
	6.1				
50	6.1	4.6	50		
	6.0	4.5			
	5.6	4.1			
	5.2	3.7			
	4.8	3.3			
5+00	3.8	2.3	7+00		
	3.0	1.5			
	2.3	0.8			
50			50		

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W80+00; 0+00 = N11680 6.64; Sound South

Dist	Sound	Elev	Dist	Sound	Elev
0+50			(22)	8.4	6.2
(2.2)	0.6	+1.6	50	8.4	6.2
11:37	1.3	+0.9		8.4	6.2
	2.4	0.2		8.5	6.3
	3.9	1.7		8.8	6.6
1+00	5.2	3.0		8.7	6.5
	6.6	4.4	3+00	8.8	6.6
	7.1	4.9		8.8	6.6
	7.8	5.6		8.8	6.6
	7.9	5.7		8.9	6.7
50	8.0	5.8		8.9	
	8.0	5.8	50	8.9	
	8.2	6.0		8.9	
	8.2	6.0		8.9	
	8.3	6.1		8.9	6.7
2+00	8.5	6.3		9.0	7.8
	8.7	6.5	4+00	9.0	
	8.7	6.5		9.0	
	8.5	6.3		9.0	7.8

W80+00 SOUTH

Dist	Sound	Elev	Dist	Sound	Elev
(23)	9.0	6.7	(23)	9.2	6.9
11:40	9.0	6.7		9.0	6.7
50	8.8	6.5	50	8.8	6.5
	8.8	6.5		8.2	5.9
	8.9	6.6		8.0	5:7
	9.0	6.7		6.9	4.6
	8.9	6.6		6.0	3.7
5+00	9.0	6.7	7+00	4.8	2.5
	8.9	6.6		4.0	1.7
	8.9			3.2	0.9
	8.9			2.3	0.0
	8.9	6.6			
50	8.8	6.5	50		
	8.8	6.5			
	8.9	6.6			
	9.0	6.7			
	9.0	6.7			
6+00	9.1	6.8			
	9.1	6.8			
	9.2	6.9			

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W84+00; 0+00 = N 15,000; SOUND NORTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00	3.9	2.6	(13)	6.0	4.7
(13)	5.3	4.0	2+00	6.0	4.7
11:40	6.0	4.7		6.0	4.7
	6.0	4.7		5.7	4.4
	6.1	4.8		5.4	4.1
50	6.1			5.0	3.7
	6.1		50	4.3	3.0
	6.1			3.7	2.4
	6.1			2.5	1.2
	6.1				
1+00	6.1				
	6.1		3+00		
	6.1	4.8			
	6.0	4.7			
	6.0				
50	6.0				
	6.0		50		
	6.0				
	6.0	4.7			

W86+00; 0+00 = N 15,000; SOUND NORTH

Dist	Sound	Elev
0+00	6.5	5.3
(12)	6.5	5.3
11:47	6.6	5.4
	6.7	5.5
	6.7	5.5
50	6.8	5.6
	6.6	5.4
	6.5	5.3
	6.4	5.2
	6.4	5.2
1+00	6.3	5.1
	6.1	4.9
	6.0	4.8
	6.0	4.8
	5.9	4.7
50	5.8	4.6
	5.8	4.6
	5.6	4.4
	5.2	4.0

Dist	Sound	Elev
(12)	5.0	3.8
2+00	4.4	3.2
	3.7	2.5
	2.1	0.9

SOUND SOUTH

0+10	6.5	5.3
	6.8	5.6
11:50	6.7	5.5
	6.1	4.9
50	5.7	4.5
	4.1	2.9
	3.3	2.1
	3.3	2.1
	3.0	1.8
1+00	2.8	1.6

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W.88+00; 0+00 = N.15,000; SOUND NORTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00	7.0	5.8	1.2	7.0	5.8
1.2	7.0	5.8	11:58	7.0	5.8
11:55	7.0	58		7.1	5.9
	6.9	5.7	50	7.1	
	6.8	5,6		7.1	
50	6.7	5,5		7.1	5.9
	6.5	5,3		7.0	5.8
	6.3	5.1		6.9	5.7
	6.1	4.9	1+00	6.0	4.8
	6.0	4.8		4.7	3.5
1+00	6.0	4.8		3.8	2.6
	5.9	4.7		3.0	1.8
	5.7	4.5		3.0	1.8
	5.1	3.9	50	3.0	1.8
	4.7	3.5			
50	3.9	2.7			
	2.6	1.4			
SOUND SOUTH					
0+10	7.0	5.8			

W.90+00; 0+00 = N.15,000; SOUND NORTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00	6.8	5,6	12	7.5	6.3
12	6.8	5,6		7.5	6.3
12:02	6.6	5.4		7.5	6.3
	6.5	5.3	1+00	7.6	6.4
	6.5	5.3		7.8	6.6
50	6.1	4.9		7.8	6.6
	5.8	4.6		7.6	6.4
	5.0	3.8		7.6	6.4
	4.4	3.2	50	6.7	5.5
	4.1	2.9		5.2	4.0
1+00	3.3	2.1		4.7	3.5
	2.0	0.8		3.9	2.7
SOUND SOUTH				3.6	2.4
0+10	7.0	5.8	2+00	3.1	1.9
	7.0	5.8		3.1	1.9
12:05	7.2	6.0			
	7.2	6.0			
50	7.2	6.0			
	7.4	6.2			

1-30-58

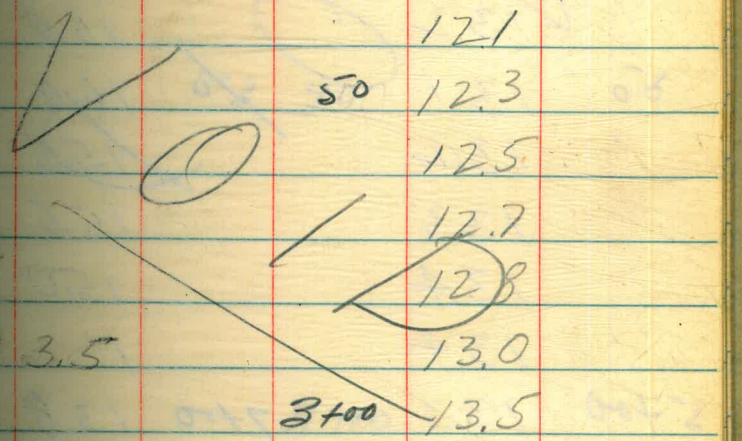
W. 92+00; 0-100 = N. 15,000; SOUND NORTH

Dist	Sound	Elev	Dist	Sound	Elev
0+00	6.3	5.2	(11)	7.8	6.7
(11)	6.0	4.9		7.9	6.8
12+10	5.2	4.1		7.9	6.8
	4.4	3.2	50	7.9	6.8
	3.3	2.2		8.0	6.9
50	2.7	1.6		8.0	
	1.7	0.6		8.0	
SOUND SOUTH				8.0	6.9
0+10	6.5	5.4	2+00	7.4	6.3
	6.8	5.7		6.5	5.4
12+15	6.9	5.8		5.3	4.2
	7.2	6.1		4.3	3.2
50	7.3	6.2		3.3	2.2
	7.4	6.3	50	3.0	1.9
	7.6	6.5		2.9	1.8
	7.8	6.7		2.7	1.6
	7.9	6.8		2.4	1.3
1+00	7.8	6.7		2.5	1.4
	7.8	6.7	3+00	2.1	1.0

Soundings Checking Bendix: (51)

STA N 11700 / W 19200 - Sound ELEV.

DIST	Sound	ELEV	DIST	Sound	ELEV
0+00				11.9	
			2+00	12.5	
				12.3	
				12.3	
				12.2	
50				12.1	
			50	12.3	
				12.5	
				12.7	
2:05				12.8	
1+00	3.5			13.0	
			3+00	13.5	
	4.9			13.3	
	6.5			13.3	
	10.0			13.2	
50	11.2			13.2	
	11.8		50	13.0	
	11.8			13.0	
	11.9			12.8	



STA N11700 Cont EAST

DIST	Sound elev	DIST	Sound elev
	12.8		12.8
	12.5		12.8
4+00	12.5	6+00	13.6
	13.0	2.10	13.9
	~~12.8~~		
	~~12.5~~		
	13.2		16.0
50	13.1	50	16.0
	13.2		~~15.5~~
	13.3		15.5
	13.4		15.0
	13.4		/
5+00	13.3	7+00	13.8
	13.3		
	13.2		
	13.1		
	13.0		
50	12.9	50	
	13.0		
	12.9		

STA N11700 Cont EAST

DIST	Sound elev	DIST	Sound elev
8+00		10+00	
50		50	
9+00		11+00	
50		50	

STAN 11700 CONT EAST

DIST	Sound elev	DIST	Sound elev
12+00		14+00	
50			
13+00			
+50			

RE-X-SEC IN ASHER COVE
OCT 15, 1959

STA N 118+00; 0+00 = W 19900.0

STA	ELEV	X-SEC EAST
0		
E 60	+0.6	
E 70	+0.3	
E 80	0.0	
E 90	-0.1	
E100	-0.8	
E110	-2.0	
E120	-1.9	
E130	-1.4	
E140	-1.1	
E150	-0.5	
E160	-0.2	
E170	-0.2	
E180	±0.0	
E190	+0.1	
E200	+0.1	
E210	+0.2	
E220	+0.5	

OCT 15, 59. AFTER SOME PUMPING (60)

STA N 118+50; 0+00 = W 19900

		X-SEC EAST
E150	-5.0	
E160	-4.4	
E170	-4.0	
E180	-4.4	
E190	-3.7	
E200	-3.3	
E210	-3.0	
E220	-2.2	
E230	-1.9	
E240	-1.6	

STA 119+00; 0+00 = W 19900

		X-SEC EAST
E150	-6.2	
E160	-5.5	
E170	-4.9	
E180	-4.1	
E190	-4.4	
E200	-3.2	
E210	-3.4	
E220	-1.6	
E230	-1.4	
E240	0.6	
E250	+0.3	

ASHER COVE - OCT 15, 59

X-sec EAST

STA N119+50; 0+00 = W 19900.0

STA	ELEV	STA	ELEV
E150	-4.9	E230	-1.5
E160	-4.8	E240	+0.7
E170	-4.6		
E180	-4.3		
E190	-4.0		
E200	-3.4		
E210	-2.9		
E220	-2.0		

OCT 15, 59

X-sec EAST

STA N120+00; 0+00 = W 19950

E200	-5.7
E210	-5.3
E220	-5.1
E230	-4.8
E240	-4.5
E250	-4.0
E260	-3.3
E270	-2.1
E280	-1.0
E290	+0.7

ASHER COVE - OCT 15 59.

(61)

X-sec EAST

STA N120+50; 0+00 = W 19950

STA	ELEV	STA	ELEV
E150	-6.4	E230	-5.3
E160	-6.0	E240	-5.0
E170	-5.7	E250	-4.5
E180	-5.7	E260	-4.2
E190	-5.8	E270	-3.3
E200	-5.8	E280	-2.7
E210	-5.7	E290	-1.7
E220	-5.6	E300	-0.5

X-sec EAST

STA N121+00; 0+00 = W 19950.0

E150	-6.3		
E160	-5.9	E260	-3.6
E170	-5.7	E270	-2.8
E180	-5.6	E280	-1.9
E190	-5.5	E290	-0.4
E200	-5.4		
E210	-5.5		
E220	-5.2		
E230	-4.7		
E240	-4.6		
E250	-4.0		

SOUND ASHER COVE - OCT 16, 59

STA N 119+00, 0+00 = W 19930.0

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0				11.6	5.6
10.00	0.8	+5.2	2+00	10.5	4.5
(6.0)	2.3	+3.7			
	3.7	+2.3			
	5.0	+1.0			
5.0	5.8	+0.2			
	8.0	2.0			
	9.7	3.7			
	10.4	4.4			
	10.7	4.7			
1+00	11.1	5.1			
	11.5	5.5			
	11.6	5.6			
	11.5	5.5			
	11.5	5.5			
5.0	11.2	5.2			
	11.4	5.4			
	11.5	5.5			
	12.0	6.0			

SOUND 62

OCT 16, 59 - ASHER COVE

STA N 120+00, 0+00 = W 19950.0

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0				11.3	5.4
10.05	1.0	+4.9	2+00	11.2	5.3
(5.9)	2.3	+3.6		11.1	5.2
	3.3	+2.6		10.9	5.0
	3.9	+2.0		10.5	4.6
5.0	4.6	+1.3		10.1	4.2
	5.3	+0.6	5.0	9.8	3.9
	6.0	0.1			
	8.0	2.1			
	11.3	5.4			
1+00	11.9	6.0			
	12.0	6.1			
	11.7	5.8			
	11.5	5.6			
	11.5	5.6			
5.0	11.4	5.5			
	11.5	5.6			
	11.4	5.5			
	11.5	5.6			

ASHER COVE – OCT 16, 59.

STA N 12 1+00; 0+00 = 19970.0 EAST

DIST	SOUND	ELEV.	DIST	SOUND	ELEV.
10:15					
0 (5.8)	0.0	+5.8		11.3	5.5
	1.2	+4.6	2+00	11.1	5.3
	2.4	+3.4			
	3.4	+2.4			
	3.9	+1.9			
5-0	4.7	+1.1			
	5.6	+0.2			
	8.0	2.2			
	9.3	3.5			
	10.8	5.0			
1+00	11.6	5.8			
	11.3	5.5			
	11.5-	5.7			
	11.4	5.6			
	11.5-	5.7			
5-0	11.5-	5.7			
	11.7	5.9			
	11.3	5.5			
	11.4	5.6			

ASHER COVE – OCT 16, 59 (63)

STA N 12 2+00; 0+00 = W 20000.0 EAST

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0	0.0	+5.7		13.0	7.3
10:20 (5.7)	1.2	+4.5	2+00	12.8	7.1
	2.6	+3.1	SOFT BOTTOM	12.0	6.3
	3.3	+2.4		11.2	5.5
	4.0	+1.7		11.0	5.3
5-0	4.5-	+1.2		10.5-	4.8
	5.2	+0.5	5-0	10.0	4.3
BOTTOM	6.0	0.3		9.9	4.2
	7.3	1.6		9.1	3.4
	8.0	2.3		8.2	2.5
1+00	8.3	2.6		7.1	1.4
	9.5-	3.8	3+00	6.0	0.3
	12.3	6.6		6.0	0.3
SOFT	12.5-	6.8		6.9	1.2
	13.0	7.3		6.5-	0.8
5-0	13.3	7.6		5.3	+0.4
	13.5-	7.8	5-0	4.0	+1.7
VERY	13.2	7.5		2.5-	+3.2
(5.7) 10:25	13.3	7.6		1.4	+4.3

ASHER COVE - OCT 16, 1959

STAN 123+00 ; 0+00 = 20030.0

DIST	SOUND	ELEV	DIST	SOUND	ELEV
0				12.3	6.8
10:30					
(5.6)	0.5	+5.1	2+00	12.3	6.8
	2.0	+3.6		12.1	6.6
	2.9	+2.7		12.1	6.6
	3.6	+2.0		12.1	6.6
50	4.2	+1.4		11.1	5.6
	5.0	+0.6	50	11.1	5.6
	6.0	0.4		10.2	4.7
	6.8	1.2		10.0	4.5
	8.5	2.9		10.0	4.5
1+00	9.0	3.4		9.8	4.3
	9.8	4.2	3+00	9.0	3.5
	10.3	4.7		9.0	3.5
	11.2	5.6		8.5	3.0
10:35	11.5	5.9		7.2	1.7
50	(5.5) 12.3	6.8		6.8	1.3
	13.0	7.5	50	5.8	0.3
	13.1	7.6		5.8	0.3
	13.0	7.5		4.7	+0.8

50 FT 130 BOTTOM

BOTTOM

BOTTOM

HARD

SOUND EAST

STA 123+00 CONT. EAST

(64)

DIST	SOUND	ELEV
(5.4)	3.6	+1.8
10:40	2.5	+2.9
4+00	1.7	+3.7
	0.7	+4.7

ASHER COVE - OCT 16, 1959 — SOUND EAST

STA 12+00; 0+00 = W 20060.0

DIST	SOUND	ELEV
0		
10:50	1.0	+4.2
(5.2)	1.9	+3.3
	2.3	+2.9
	2.9	+2.3
50	3.7	+1.5
	4.5	+0.7
	5.1	+0.1
	7.0	1.8
	9.0	3.8
1+00	10.6	5.4
	11.5	6.3
	11.5	6.3
	11.4	6.2
	12.4	7.2
50	12.3	7.1
	12.2	7.0
	12.5	7.3
	12.5	7.3

BOTTOM

SOFT

DIST	SOUND	ELEV
(5.1) 10:55	12.0	6.9
2+00	11.9	6.8
	11.9	6.8
	12.0	6.9
	11.9	6.8
	12.0	6.9
50	11.0	5.9
	10.9	5.8
	10.2	5.1
	10.0	4.9
	10.0	4.9
3+00	9.1	4.6
	9.5	4.4
	9.1	4.0
	7.5	2.4
	5.1	0.0
50	3.5	+1.6
	2.9	+2.2
	2.6	+2.5

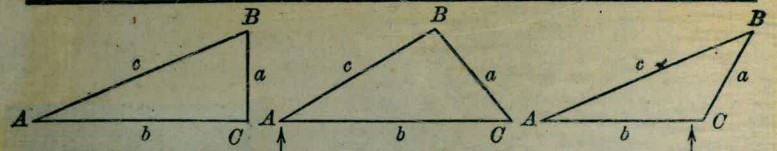
50 FT - BOTTOM

HARD BOTTOM

STA 12+00 CONT EAST — (65)

DIST	SOUND	ELEV
	3.1	+2.0
	3.0	+2.1
4+00	2.8	+2.3
	2.3	+2.8
	1.9	+3.2
(5.0) 11:00	1.5	+3.5
	0.5	+4.0
50		

TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

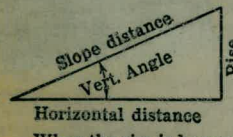
For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{b}$, $\operatorname{cosec} = \frac{c}{a}$

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

Solution of Oblique Triangles

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

REDUCTION TO HORIZONTAL



Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = 5° 10′. From Table, Page IX. cos 5° 10′ = .9959. Horizontal distance = 319.4 × .9959 = 318.09 ft.

Horizontal distance also = Slope distance minus slope distance times (1 — cosine of vertical angle) With the same figures as in the preceding example, the following result is obtained. Cosine 5° 10′ = .9959. 1 — .9959 = .0041. 319.4 × .0041 = 1.31. 319.4 — 1.31 = 318.09 ft.

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