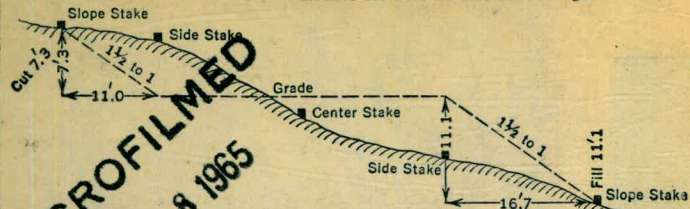


94

MISSION BAY

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	Distance out from Side or Shoulder Stake											Cut or Fill
	0	.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.

N.B. No 94

3718 11/10/61

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

N. 73+00; W 11, 920

N 72+00; W 11, 880

N. 71+00; W 11, 890

N 70+00; W 11, 930

N 69+00; W 11, 940

N 68+00; W 11, 950

N 67+00; W 11, 930

N 66+00; W 11, 910

N 65+00; W 12, 000

N 64+00; W 11, 790

N 63+00; W 11, 570

N 62+00; W 11, 430

N 61+00; W 11, 320

N 60+00; W 11, 070

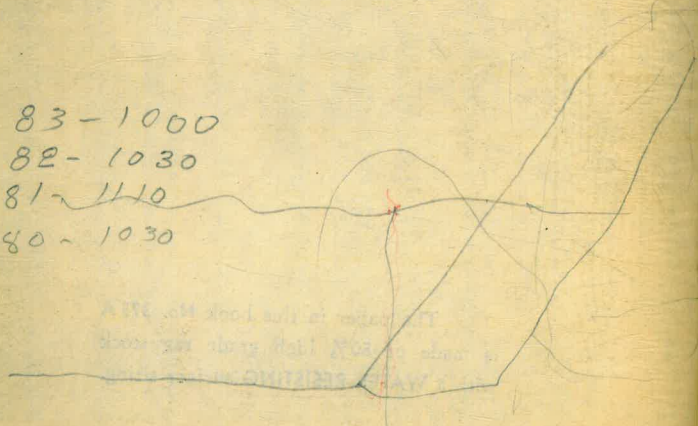
(N. 77+00; W. 13, 700)

83-1000

82-1030

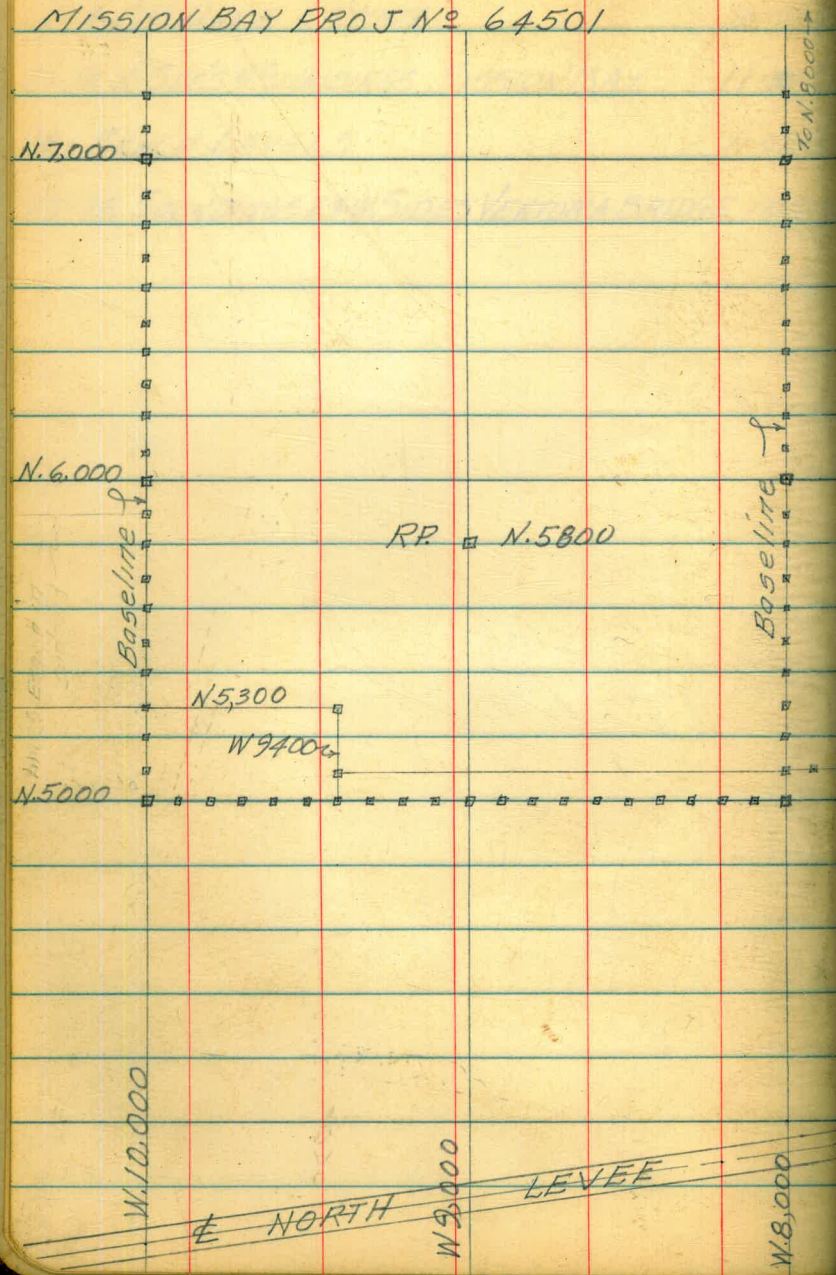
81-1110

80-1030



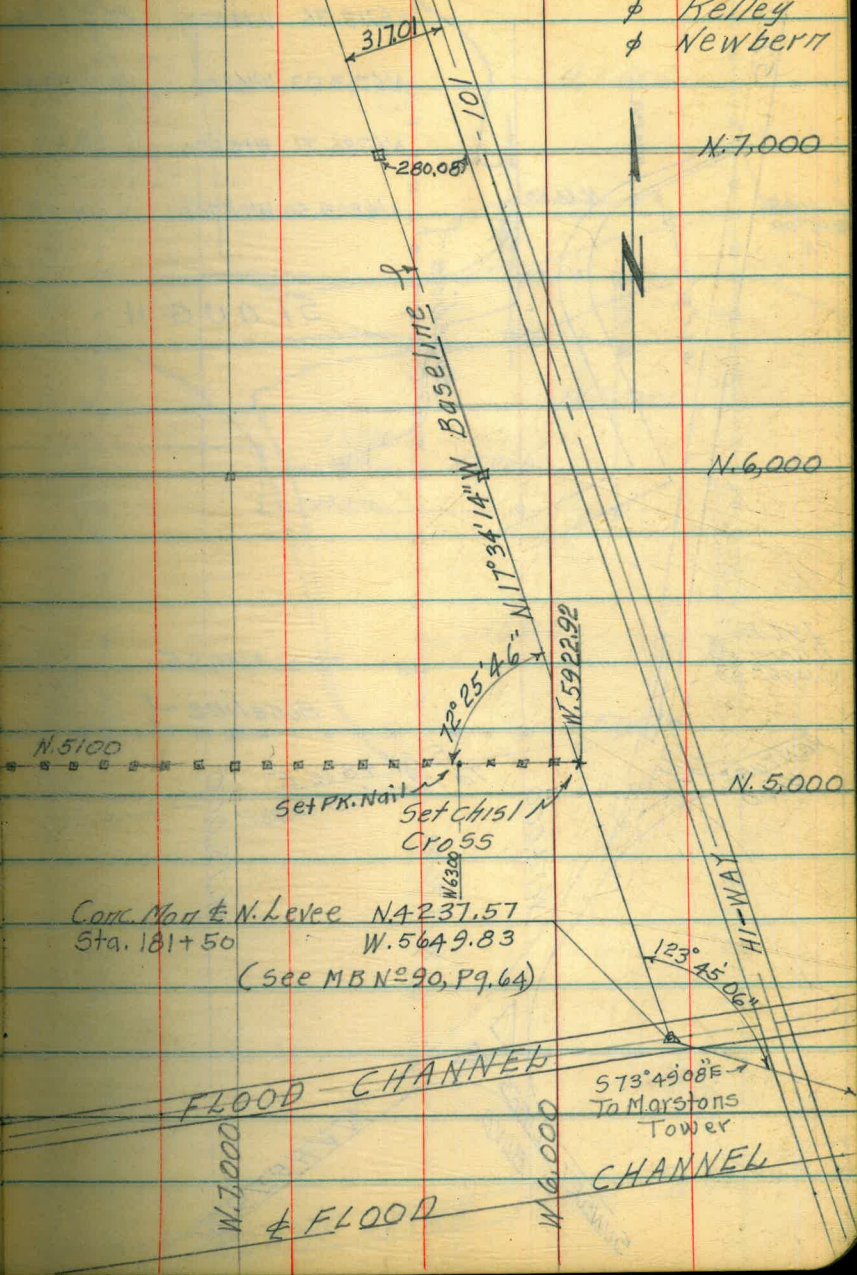
PAGES	INDEX	DATE
1-4	BASELINE LAYOUT	10-17-5
5-73	X-SECS & SOUNDINGS MISSION BAY	11-20-5
14	BENCH LEVELS	11-13-5
73-75	SOUNDINGS E. & W. SIDES VENTURA BRIDGE	12-10-5

BASELINE LAYOUT FOR CROSS SECTIONS OF
MISSION BAY PROJ N^o 64501



10-17-56

- ①
- Stamp
- ⋈ Huffmann
- ⊕ Kelley
- ⊕ Newbert

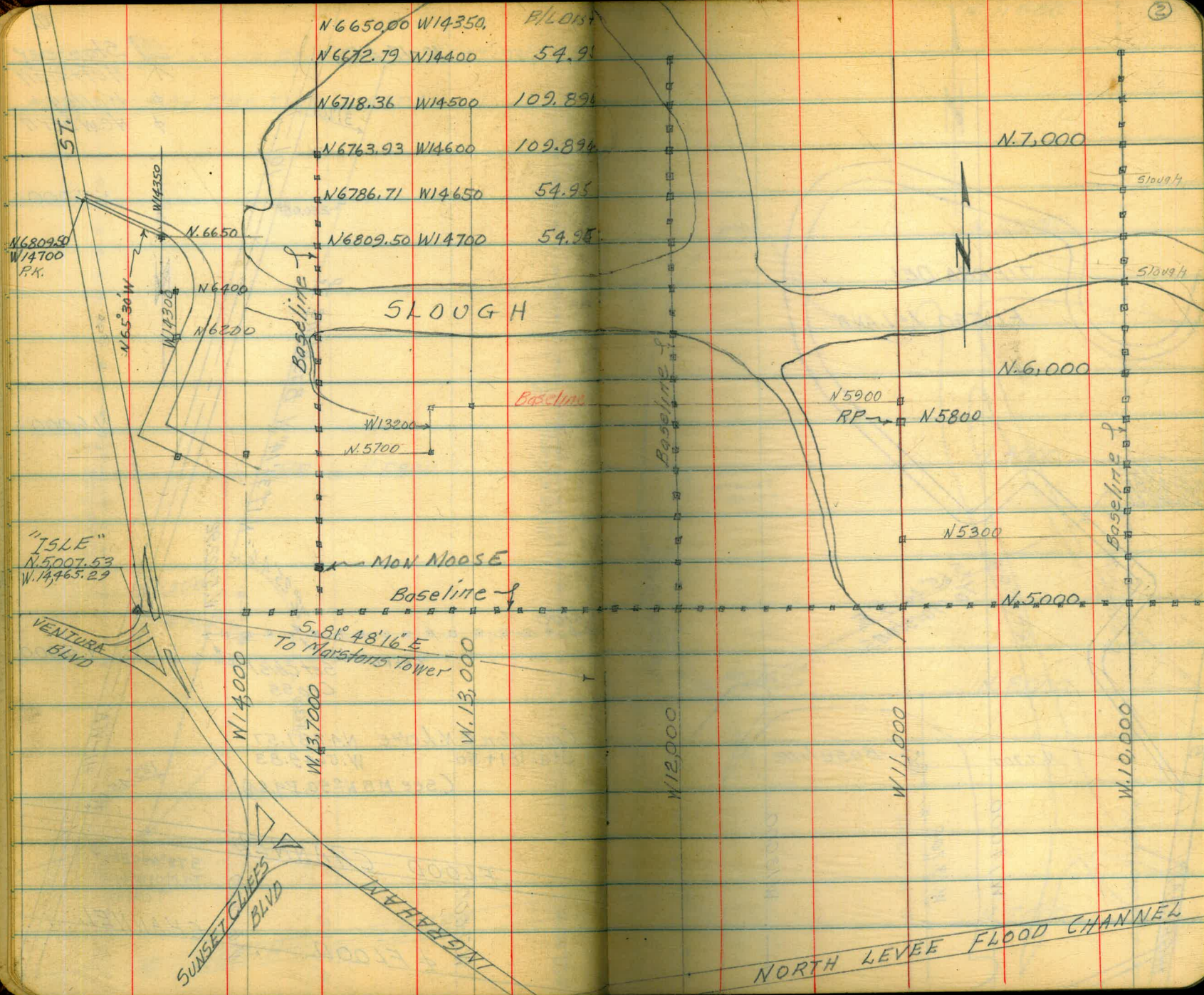


CORR. MARK & N. LEVEE N.4237.57
Sta. 181+50 W.5649.83
(see MB N^o 90, P. 64)

57°49'08" E
To Marstons
Tower

CHANNEL

N 6650.00	W 14350	B/L OR
N 6672.79	W 14400	54.95
N 6718.36	W 14500	109.896
N 6763.93	W 14600	109.896
N 6786.71	W 14650	54.95
N 6809.50	W 14700	54.95



N 6809.50
W 14700
P.K.

N 65° 59' W

N 6650

N 6400

N 6200

Baseline ↓

SLOUGH

Baseline

W 13200

N 5700

MON MOOSE

Baseline ↓

5.81° 48' 16" E
To Marsters Tower

W 14000

W 137000

W 13000

W 12000

W 11000

W 10000

N 5900

RP →

N 5800

N 5300

N 5000

N 6000

N 7000

SLOUGH

SLOUGH

Baseline ↓

"ISLE"
N 5007.53
W 14465.29

VENTURA
BLVD

SUNSET CLIFFS
BLVD

INGRAM
BLVD

NORTH LEVEE FLOOD CHANNEL





TIERRA DEL
FUEGO ISLAND

Mon. Clyde
N. 8740.81
W. 14442.60

5.65° 46' 19" E
To Morston's

ST.

INGRAHAM

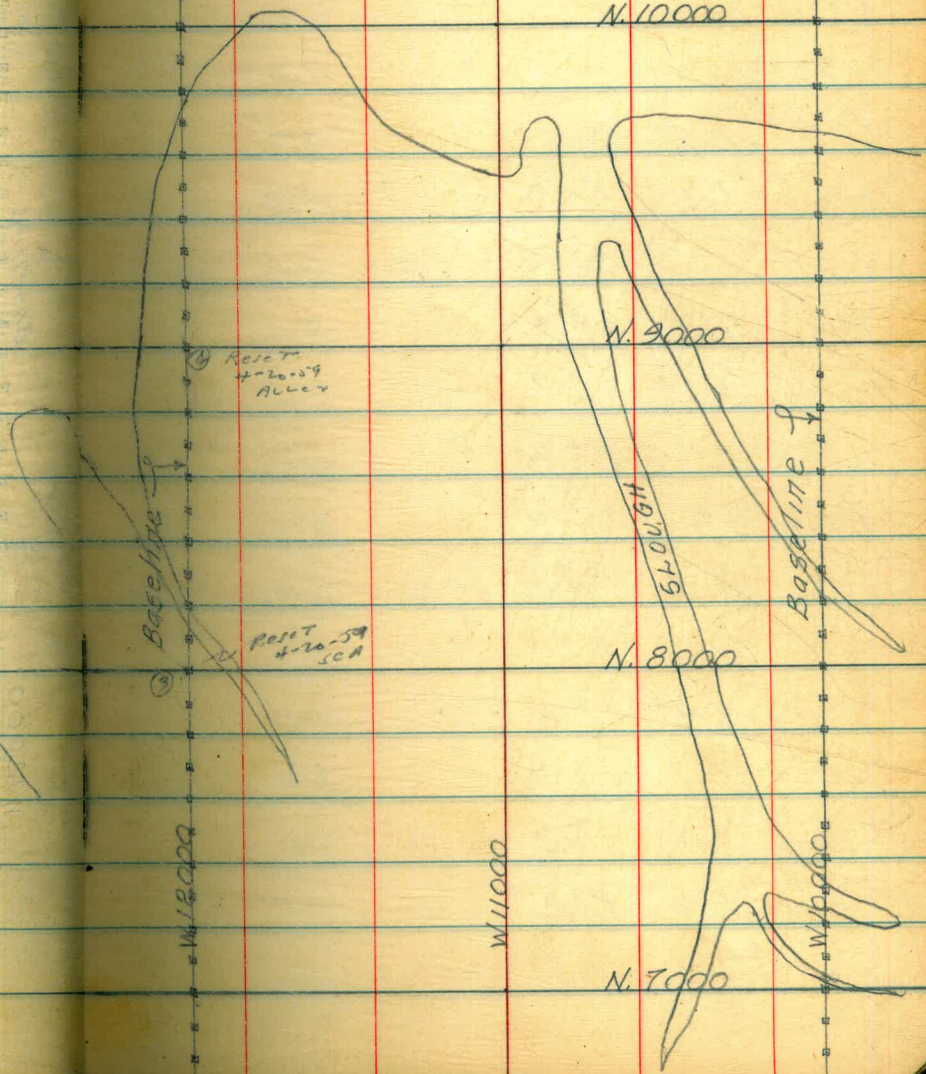
N. 7,700

W. 14,000

W. 13,700

W. 13,000

Baseline



N. 11000

N. 9000

N. 8000

N. 7000

Baseline

③

W. 12,000

W. 11,000

Baseline

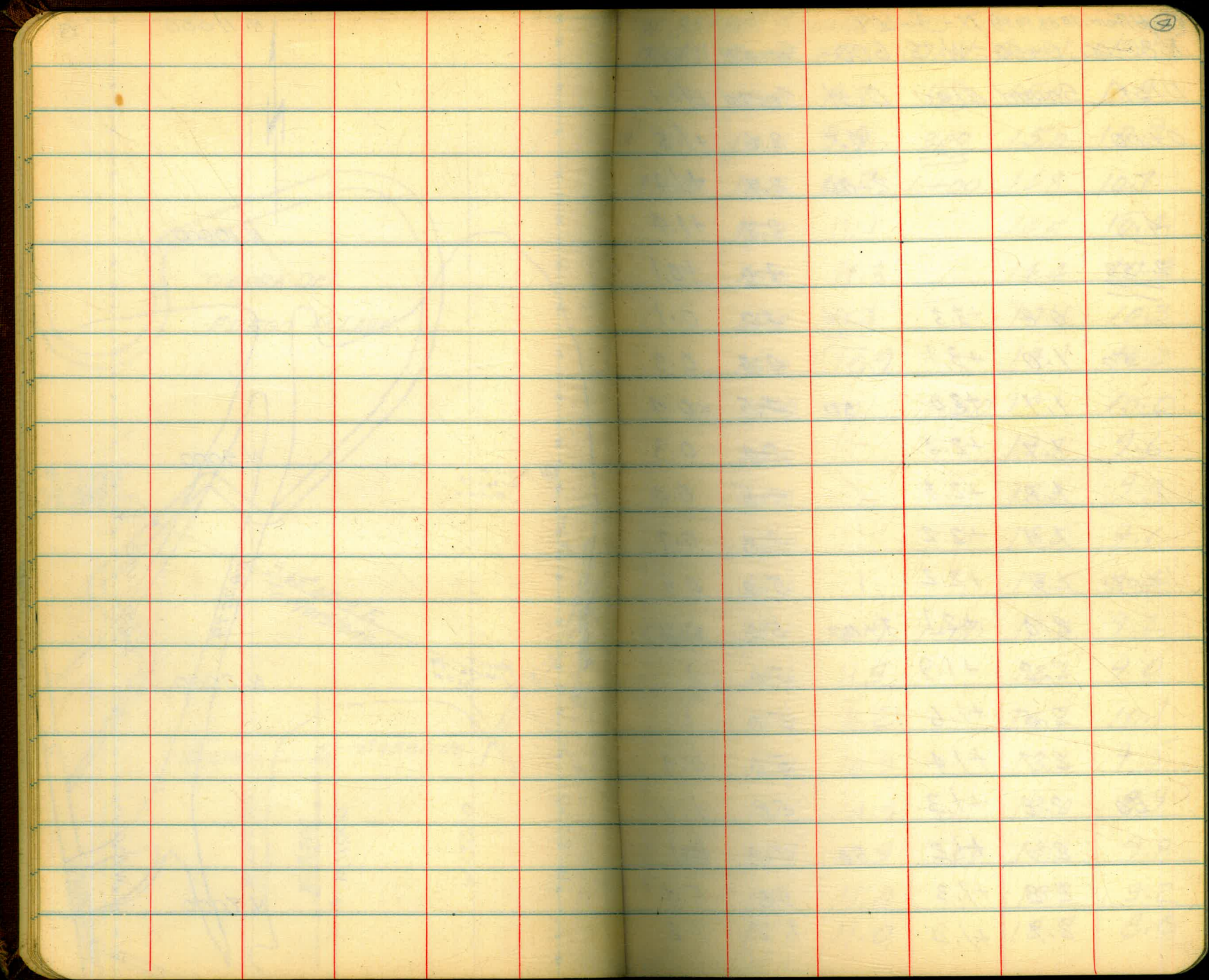
W. 10,000

Reset
+20.59
ALLEN

Reset
+20.59
SEA



③



4

(Cont'd from MP 89, P. 39)

11-9-56

N. 85+00; 0+00 = W. 12, 600 SOUND WEST

N. 85+00; SOUND WEST

⑤

Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev
							12.8	8.7	(4.1)	15.0	10.9
0+00			(4.1)	2.6	+1.5	(4.1)	14.0	9.9	<u>3+00</u>	15.0	10.9
			2+00	2.7	+1.4	4+00	14.8	10.7	6+00	14.8	10.7
(4.1)				2.7	+1.4		15.2	11.1		14.5	10.4
<u>2:53</u>				4.0	+0.1		15.4	11.3		14.4	10.3
	0.8	+3.3	<u>2:56</u>	4.2	0.1		15.2	11.1		14.4	10.3
50	1.0	+3.1		4.4	0.3		15.0	10.9		14.1	10.0
	1.1	+3.0	50	4.5	0.4	50	15.0		50	14.1	10.0
	1.7	+2.4		4.4	0.3		15.0			13.7	9.6
	1.8	+2.3		4.5	0.4		15.0			13.9	9.8
	1.9	+2.2		4.8	0.7		15.0			13.5	9.4
1+00	1.9	+2.2		5.0	0.9		15.0			13.5	9.4
	2.0	+2.1	3+00	5.0	0.9	5+00	15.0	10.9	7+00	13.3	9.2
	2.2	+1.9		5.0			15.6	11.5		13.1	9.0
	2.5	+1.6		5.0			15.3	11.2		14.2	10.1
	2.7	+1.4		5.0	0.9		15.0	10.9		13.6	9.5
50	2.8	+1.3		5.8	1.7		15.0	10.9		13.0	8.9
	2.9	+1.2	50	7.2	3.1	50	15.0	10.9	50	13.9	9.8
	2.8	+1.3		9.5	5.4		15.1	11.0		13.3	9.2
	2.7	+1.4		11.7	7.6		15.1	11.0		12.7	8.6

N. 85+00; SOUND WEST 11-9-56

Dist	Sound	Elev	Dist	Sound	Elev
	14.0	9.9	(4.1)	8.2	4.1
(4.1)	13.5	9.4	<u>3.05</u>	8.0	3.9
8+00	13.2	9.1	10+00	8.0	3.9
	12.9	8.8		8.0	3.9
<u>3.03</u>	13.2	9.1		8.2	4.1
	13.2	9.1		8.0	3.9
	13.1	9.0		7.9	3.8
50	12.8	8.7	50	7.9	3.8
	12.8	8.7		8.0	3.9
	12.6	8.5		8.0	
	11.0	6.9		8.0	
	10.1	6.0		8.0	
9+00	8.5	4.4	11+00	8.0	3.9
	8.2	4.1		8.1	4.0
	8.5	4.4		8.1	
	8.5	4.4		8.1	
	8.3	4.2		8.1	4.0
50	8.8	4.7	50	9.5	5.4
	8.5	4.4		9.6	5.5
	8.3	4.2		9.6	5.5

N. 85+00; SOUND WEST (cont'd from MB 89 Pg. 9)

Dist	Sound	Elev	Dist	Sound	Elev
(4.1)	9.9	5.8			
<u>3.08</u>	10.1	6.1			
12+00	10.3	6.2			
	11.1	7.0			
	11.0	6.9			
	10.9	6.8			
	11.0	6.9			
50	11.2	7.1			
	12.0	7.9			
	12.0	7.9			
	12.0	7.9			
	12.2	8.1			
13+00	12.5	8.4			

(cont'd MB 89 Pg. 9)

(Contd from NB 89, P. 34) 11-10-56

N. 84+00; 0+00 = W. 12.550; SOUND WEST

N. 84+00; SOUND WEST. Plotted Roll 22-A ②

Dist Sound Elev Dist Sound Elev

Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev
							4.0	0.6	(3.4)	13.1	9.7
0+00			(3.4)	4.0	0.6	(3.4)	4.0	0.6	<u>9.25</u>	13.8	10.4
(3.4)			2+00	3.8	0.4	4+00	4.8	1.4	6+00	14.0	10.6
<u>9.16</u>				3.2	+0.2		5.0	1.6		14.0	
0+35	0.0	+3.4		3.5	0.1		4.3	0.9		14.0	
	0.1	+3.3		3.5	0.1		4.0	0.6		14.0	10.6
50	0.4	+3.0		3.4	0.0		4.1	0.7		13.8	10.4
	0.9	+2.5	50	4.0	0.6	50	4.2	0.8	50	13.7	10.3
	1.1	+2.3		3.0	+0.4		4.1	0.7		14.1	10.7
<u>9.20</u>	1.6	+1.8		2.8	+0.6		4.0	0.6		14.5	11.1
(3.4)	2.0	+1.4		2.9	+0.5		3.7	0.3		14.4	11.0
1+00	2.2	+1.2		2.9	+0.5		3.3	+0.1		14.4	11.0
	2.3	+1.1	3+00	3.0	+0.4	5+00	3.8	0.4	7+00	14.3	10.9
	2.5	+0.9		3.0	+0.4		5.0	1.6		14.5	11.1
	2.8	+0.6		3.2	+0.2		8.0	4.6		14.2	10.8
	2.6	+0.8		3.4	0.0		10.1	6.7		14.0	10.6
50	2.7	+0.7		4.0	0.6		11.8	8.4		13.8	10.4
	2.8	+0.6	50	3.6	0.2	50	12.4	9.0	50	13.8	10.4
	2.9	+0.5		3.9	0.5		12.9	9.5		13.7	10.4
	3.2	+0.2		4.1	0.7		13.0	9.6		13.5	10.1

N. 84+00; SOUND WEST 11-10-56

N. 84+00; SOUND WEST ⁽⁸⁾

DIST	Sound	Elev	DIST	Sound	Elev	DIST	Sound	Elev	DIST	Sound	Elev
(3.4)	13.2	9.8	(3.4)	12.7	9.3	(3.4)	7.8	4.4	(3.4)	10.8	7.4
	13.2	9.8		13.0	9.6	<u>9.30</u>	7.6	4.2		11.0	7.6
8+00	13.5	10.1	10+00	12.8	9.4	12+00	7.5	4.1	14+00	11.0	7.6
	13.2	9.8		12.3	8.9		7.8	4.4		11.2	7.8
	13.2	9.8		12.9	9.3		7.6	4.2		12.1	8.7
	13.2	9.8		12.7	9.3		7.5	4.1		11.2	7.8
	13.1	9.7		12.7	9.3		7.0	3.6		11.9	8.5
50	13.8	10.4	50	12.8	9.4	50	7.1	3.7	50	13.0	9.6
	14.1	10.7		12.8	9.4		7.3	3.9		12.8	9.4
	12.5	9.1		12.8	9.4		7.6	4.2		12.9	9.5
	12.8	9.4		12.5	9.1		7.8	4.4		12.8	9.4
	12.7	9.3		12.0	8.6		8.0	4.6		12.8	9.4
9+00	13.5	10.1	11+00	10.5	7.1	13+00	8.0	4.6	15+00	13.2	9.8
	13.1	9.7		9.7	6.3		8.1	4.7	Plotted Roll 22-A		
<u>9:28</u>	13.0	9.6		9.0	5.6		8.5	5.1			
	12.8	9.4		8.8	5.4		9.0	5.6			
	12.2	8.8		8.6	5.2		9.2	5.8			
50	13.0	9.6	50	8.3	4.9	50	9.8	6.4			
	13.1	9.7		7.8	4.4		10.0	6.6			
	13.0	9.6		7.2	3.8		10.3	6.9			

(1800) (Contd from MB89, P934) 11-10-56
 N. 83+00; 0+00 = W12,550; SOUND WEST

Contd from MB89, P934) Plotted Roll 22-A ②
 N. 82+00; 0+00 = W. 12,400; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev
0+00			(3.4)	3.3	+0.1	0+00			(3.4)	3.0	+0.4
(3.4)			2+00	3.0	+0.4	(3.4)			2+00	3.3	+0.1
<u>9:43</u>			<u>9:45</u>	3.2	+0.2	<u>9:57</u>				3.0	+0.4
	0.0	+3.4		3.0	+0.4	0+35	0.0	+3.4		2.9	+0.5
	0.5	+2.9		2.9	+0.5		0.1	+3.3		3.0	+0.4
50	0.9	+2.5		3.0	+0.4	50	0.7	+2.7		3.1	+0.3
	1.2	+2.2	50	3.0	+0.4		1.3	+2.1	50	3.2	+0.2
	2.0	+1.4		2.9	+0.5		1.9	+1.5		3.1	+0.3
	2.0	+1.4		3.0	+0.4		2.0	+1.4		2.9	+0.5
	2.2	+1.2		3.0	+0.4		2.5	+0.9		2.5	+0.9
1+00	2.3	+1.1		3.1	+0.3	1+00	2.8	+0.6		2.2	+1.0
	3.1	+0.3	3+00	3.0	+0.4		2.9	+0.5	3+00	2.7	+0.7
	3.5	0.1		3.9	0.5		3.2	+0.2		2.7	+0.7
	3.6	0.2		3.3	+0.1		3.1	+0.3		2.2	+1.2
	2.9	+0.5		1.9	+1.5		3.0	+0.4		1.0	+2.4
50	3.1	+0.3		1.0	+2.4	50	3.2	+0.2		0.3	+3.1
	3.2	+0.2	50	0.3	+3.1		3.0	+0.4	50		
	3.7	0.3		0.0	+3.4		3.0	+0.4			
3.2	+0.2	(Contd P9.15)					3.0	+0.4	(Contd P9.16)		
							3.0	+0.4	(Set Earth W12,170)		

Set Earth
 W12,930

(Contd from NB 89, Pg. 35) 11-10-56

N. 81+00; 0+00 = W. 12, 330; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00			(3.4)	3.0	+0.4
(3.4)			2+00	3.0	+0.4
<u>10.07</u>	0.0	+3.4		3.0	+0.4
	0.7	+2.7		3.1	+0.5
	1.5	+1.9		3.2	+0.2
50	2.1	+1.3		3.2	+0.2
	2.5	+0.9	50	3.2	+0.2
	2.7	+0.7		2.8	+0.6
	2.8	+0.6		2.2	+1.2
	3.0	+0.4		2.2	+1.2
1+00	3.0	+0.4		2.2	+1.2
	3.0	+0.4	3+00	1.5	+1.9
	3.1	+0.5		0.9	+2.5
	3.1	+0.3		0.3	+3.1
	3.0	+0.4	(Contd Pg. 16)		
50	3.1	+0.3			
	3.0	+0.4	50 (Set Lath W 1260)		
	2.9	+0.5			
	3.0	+0.4			

(Contd from NB 89, Pg. 35) Plotted Roll 22-A ©

N. 80+00; 0+00 = W. 12, 260; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00			(3.4)	3.3	+0.1
0+15	0.0	+3.4	2+00	3.2	+0.2
(3.4)	0.3	+3.1		3.0	+0.4
<u>10.20</u>	1.1	+2.3		2.8	+0.6
	2.3	+1.1		2.5	+0.9
50	3.1	+0.3		2.2	+1.2
	3.2	+0.2	50	2.1	+1.3
	3.4	0.0		2.0	+1.4
	3.2	+0.2		1.5	+1.9
	3.2			0.6	+2.8
1+00	3.2			0.3	+3.1
	3.2	+0.2	(Contd Pg. 17)		
	3.3	+0.1	3+00		
	3.3	+0.1			
	3.2	+0.2			
50	3.2	+0.2			
	3.2	+0.2	50		
	3.3	+0.1			
	3.4	0.0	(Set Lath W 12, 600)		

Contd from NB 11-10-56
89, P9.35

N.79+00; 0+00=W.12,170; SOUND WEST

Dist Sound Elev

0+00

(3.4)

3.1 +0.3

0+15

0.0 +3.4

2+00

3.0 +0.4

(3.4)

0.4 +3.0

2.8 +0.6

10:30

2.0 +1.4

2.0 +1.4

2.3 +1.1

1.8 +1.6

50

3.2 +0.2

1.5 +1.9

4.0 0.6

50

1.2 +2.2

4.1 0.7

1.2 +2.2

4.2 0.8

1.0 +2.4

4.2 0.8

0.5 +2.9

1+00

4.0 0.6

0.0 +3.4

4.0 0.6

3+00

4.0 0.6

3.8 0.4 (Set Lath W.12500)

3.5 0.1

50

3.5 0.1

3.6 0.2

50

3.6 0.2

3.3 +0.1

(Contd from NB 89 P9.35)

N.78+00; 0+00=W.12,070; SOUND WEST

Dist Sound Elev Dist Sound Elev Dist Sound Elev Dist Sound Elev

0+00

(3.4)

2.2 +1.2

0+15

0.0 +3.4

2+00

2.0 +1.4

(3.4)

0.5 +2.9

1.7 +1.7

10:40

1.4 +2.0

1.4 +2.0

2.2 +1.2

10:45

1.1 +2.3

50

4.0 0.6

0.7 +2.7

4.8 1.4

50

0.5 +2.9

5.1 1.7

0.3 +3.1

5.1 1.7

0.2 +3.2

5.1 1.7

1+00

4.9 1.5

(Contd P9.18)

4.2 0.8

3+00

3.8 0.4

3.6 0.2

(Set Lath W.12400)

3.2 +0.2

50

3.3 +0.1

3.0 +0.4

2.7 +0.7

2.5 +0.9

(Contd MB 95)
Pg 66

11-10-56

N.77+00; 0+00 = W.12,000; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	2.7	+0.7	(3.4)	0.6	+2.8
(3.4)	3.8	0.4	2+00	0.0	+3.4
<u>10.53</u>	5.3	1.9	(Set Lath W.12,300)		
<u> </u>	5.7	2.3	(Contd Pg 19)		
	5.0	1.6			
50	4.7	1.3			
	3.9	0.5	50		
	3.7	0.3			
	3.2	+0.2			
	3.0	+0.4			
1+00	2.8	+0.6			
	2.5	+0.9			
	2.2	+1.2			
	2.1	+1.3			
	2.0	+1.4			
50	1.9	+1.5			
	1.7	+1.7			
	1.5	+1.9			
	1.1	+2.3			

(12)

N.76+00; 0+00 = W.12,000; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	2.0	+1.5	(3.5)	4.7	1.2
(3.5)	2.0	+1.5		5.2	1.7
<u>11.03</u>	1.9	+1.6		4.9	1.4
<u> </u>	1.8	+1.7		3.0	+0.5
	1.9	+1.6	1+00	1.5	+2.0
50	1.7	+1.8		1.0	+2.5
	1.5	+2.0		0.0	+3.5
	1.2	+2.3	(Set Lath W.11,870)		
	1.0	+2.5	(Contd Pg 19)		
	0.9	+2.6	50		
1+00	0.3	+3.2	(contd MB 95 Pg 65)		
			(Set Lath W.12,100)		
			SOUND EAST		
			0+00		
			(3.5)	2.1	+1.4
			<u>11.12</u>	2.8	+0.7
			<u> </u>	3.0	+0.5
				3.2	+0.3
			50	4.0	0.5

11-10-56

N. 75+00; 0+00 = W. 12,000; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	0.8	+2.7	(cont'd MB 95) Pg. 65 (Set Lat 4 W. 11,800) 2+00		
(3.5)	1.1	+2.4			
<u>11.20</u>	1.5	+2.0	(cont'd Pg. 20)		
	1.7	+1.8			
	1.8	+1.7			
50	1.9	+1.6			
	2.0	+1.5	50		
	2.0	+1.5			
	2.2	+1.3			
	2.7	+0.8			
1+00	3.1	+0.4			
	4.0	0.5	3+00		
	5.1	1.6			
	5.5	2.0			
	5.0	1.5			
50	3.0	+0.5			
	1.1	+2.4			
	0.0	+3.5			

N 74+00; 0+00 = W. 12,000; SOUND EAST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	(3.5)	4.1	0.6		
	2+00	3.0	+0.5		
		1.0	+2.5		
<u>11.30</u>	(cont'd MB 95, Pg. 63)	0.0	+3.5		
	(Set Lat 4 W. 11,750)				
50	0.1	+3.4	(Cont'd Pg. 21)		
(3.5)	1.0	+2.5			
	1.3	+2.2			
	1.9	+1.6			
	2.0	+1.5			
1+00	2.3	+1.2			
	2.5	+1.0			
	2.7	+0.8			
	3.0	+0.5			
	3.9	0.4			
50	4.0	0.5			
	3.8	0.3			
	3.7	0.2			
	4.1	0.6			

BENCH LEVELS FOR X-SECTIONS

11-13-56

(14)

Sta	+	H.I	-	Elev	
T.B.M.				7.00	N. 8,000; W. 12,000 "2x2" Hub. (MB 90, P 9.57)
	4.40	11.40			
T.B.M.			3.39	8.01	N. 7,000; W. 12,000
	3.16	11.17			
T.B.M.			4.01	7.16	N. 6,000; W. 12,000
	3.84	11.00			
T.B.M.			4.55	6.45	N. 5,000; W. 12,000
	4.97	11.42			
T.B.M.			4.49	6.93 ^{7.00}	N. 5,000; W. 13,000
	5.25	12.18			
T.B.M.			3.58	8.68 ^{6.8}	N. 5,000; W. 13,700
	5.60	14.20			
B.M.			1.67	12.53	12.61 "1/2" e"
	1.92	14.53			
T.B.M.			7.03	7.50	N. 5,500; W. 13,700
	2.50	10.00			
T.B.M.			4.02	5.98	N. 6,365; W. 13,700
	4.49	10.47			
T.B.M.			2.62	7.85	N. 7,300; W. 13,700
	3.00	10.85			

(Contd from P. 9) 11-13-56
BENCH LEVELS

(15)

Sta + H.I. - Elev

10.85

TP. 4.73 6.12

5.20 11.32

TBM. 3.23 8.09 ~ 8.01 N. 7,000; W 12,000

T.B.M. 3.90 7.42 N. 7,700; W 12,300

N. 83+00; 0+00 = W 12,930

3.05 10.47

0 4.6 5.9

E 6 4.9 5.6

E 7 6.6 3.9

W 70 5.2 5.3

W 170 6.8 3.7

W 220 7.4 3.1 Sets
W 1315

(Contd P. 9. 41)

(cont'd from Pg. 9) 11-13-56
N. 82+00; 0+00 = W 12,770

Sta	+	H. I	-	Elev
0		10.47	4.2	5.3
E 9			4.3	6.2
E 10			5.6	4.9
E 30			7.4	3.1
W 100			5.0	5.5
W 200			5.3	5.2
W 300			5.4	5.1
W 400			7.3	3.2
W 430			7.6	2.9

(cont'd Pg. 42)

N. 81+00; 0+00 = W 12,680 (cont'd from Pg. 10) (16)

Sta	+	H. I	-	Elev
0		10.47	4.3	6.2
E 11			4.5	6.0
E 12			6.2	4.3
E 30			7.4	3.1
W 100			4.9	5.6
W 200			5.3	5.2
W 300			5.6	4.9
W 400			5.4	5.1
W 500			5.4	5.1
W 570			7.3	

W (cont'd Pg. 44)

Set 5/6.
W 13,250

(Contd from P9.10) 11-13-56

N. 80+00; 0+00 = W. 12,600

Sta	+	H.I.	-	Elev
0		10.47	4.6	5.9
E 29			4.4	6.1
E 30			5.7	4.8
E 50			7.5	3.0
W 100			4.9	5.6
W 200			5.3	5.2
W 300			5.4	5.1
W 400			5.2	5.3
W 500			5.4	5.1
W 515			6.4	4.1
W 522			8.5	2.0
W 557			9.1	1.4
W 570			7.2	3.3
W 600			6.0	4.5
W 700			5.3	5.2
W 770 (Contd P9.43)			7.2	3.3

N. 79+00; 0+00 = W. 12,500 (Contd from P9.11) (11)

Sta	+	H.I.	-	Elev
0	Plotted Roll 22-A	10.47	4.6	5.9
E 20			4.7	5.8
E 21			5.8	4.7
E 40			6.9	3.6
W 100			4.7	5.8
W 200			4.9	5.6
W 300			5.3	5.2
W 400			4.9	5.6
W 445			5.1	5.4
W 466			8.6	1.9
W 493			8.3	2.2
W 510			7.7	2.8
W 600			5.7	4.8
W 700			5.6	4.9
W 800			5.5	5.0
W 900			5.5	5.0
Set W. 980 - (set sta W 13,480)				
W 985			6.7	3.8
W 987			7.6	2.9
W 997			9.8	0.7
W 1000			8.0	2.5

(Contd P9.47)

N.78+00; 0+00 = W.12,400 11-73-56 (cont'd from pg. 11)

Sta	H.I	Elev
0	10.47	4.6
E 24		4.5
E 25		5.6
E 50		6.6
W 100		4.4
W 200		4.9
W 300		5.2
W 400		5.0
W 413		5.0
W 437		8.4
W 480		8.3
W 512		5.5
W 600		5.2
W 700		5.3
W 800		5.5
W 900		5.6
W 993		6.0
W 1000		8.6
W 1013		9.1
W 1020		5.9

N.78+00 CONTD.

(18)

Sta	H.I	Elev
W 1100	10.47	5.6
W 1200		6.5
W 1220 (cont'd from pg. 48)		6.7
N.77+00; 0+00 = W.13,700		
0		6.4
W 30 (cont'd from pg. 49)		7.2
E 100		5.5
E 200		5.3
E 300		5.3
E 400		5.2
E 500		5.4
E 510		5.5
E 515		7.8
E 520		9.7
E 526		8.1
E 534		5.4
E 600		5.3
E 700		5.1
E 800		5.1

(Setstke)
W 13,620

11-13-56

N.77+00; CONTD EAST 11-13-56

Sta	+	H.I	-	Elev
E 900		10.47	5.4	5.1
E 943			8.3	2.2
E 983			8.6	1.9
E 1010			5.3	5.2
E 1100			5.1	5.4
E 1200			4.7	5.8
E 1300			4.3	6.2
E 1400			4.3	6.2
E 1420			3.5	7.0
E 1422			4.9	5.6
E 1435			6.4	4.1
E 1500			7.2	3.3

(Contd/Pg 12)

T.B.M.

3.05

7.42-7.42

(Pg. 15)

11-14-56

N.76+00; 0+00 = W. 13,700

Sta	+	H.I	-	Elev	(Pg. 14)
T.B.M.	3.05	10.90		7.85	N.7,300 W.13,700
0			5.8	5.1	
W 100			6.4	4.5	
W 140			7.5	3.4	Set str. W.13,840
E 100			5.8	5.1	
E 200			5.8	5.1	
E 300			5.7	5.2	
E 400			5.6	5.3	
E 500			5.6	5.3	
E 573			5.7	5.2	
E 587			9.2	1.7	
E 594			9.4	1.5	
E 600			5.9	5.0	
E 700			5.6	5.3	
E 800			5.5	5.4	
E 900			5.2	5.7	
E 990			5.9	5.0	
E 1000			7.6	3.3	
E 1010			8.6	2.3	

(19)

N.76+00 CONTD EAST. 11-14-56

Sta	+	H.I	-	Elev
E1037		10.90	8.5	2.4
E1055			7.0	3.9
E1100			5.9	5.0
E1200			5.3	5.6
E1300			4.8	6.1
E1400			4.6	6.3
E1500			4.8	6.1
E1520			4.6	6.3
E1521			5.8	5.1
E1600 (Contd Pg. 12)			7.7	3.2
N.75+00; 0+00 = W.12,000				
(Contd Pg 13)				
0			8.3	2.6
W100			6.0	4.9
W102			4.6	6.3
W200			4.5	6.4
W300			4.7	6.2
W400			5.2	5.7
W500			5.5	5.4
W600			6.3	4.6
W608			6.8	4.1

N.75+00; CONTD WEST.

Sta	+	H.I	-	Elev
W620		10.90	8.5	2.4
W643			8.7	2.2
W670			5.9	5.0
W700			4.9	6.0
W800			5.5	5.4
W900			5.4	5.5
W1000			5.5	5.4
W1100			5.5	5.4
W1142			5.8	5.1
W1148			9.1	1.8
W1151			8.8	2.1
W1160			8.9	2.0
W1173			5.7	5.2
W1185			9.0	1.9
W1194			5.9	5.0
W1200			5.7	5.2
W1300			5.7	5.2
W1400			5.7	5.2
W1500			5.6	5.3
W1600			5.6	5.3

N.75+00 CONTD WEST 11-14-56

N.74+00 CONTD EAST

Sta	+	H.I	-	Elev
W 1700		10.90	5.6	5.3
W 1800			6.1	4.8
W 1900	(contd P 9.50)		6.2	4.7
W 1930	(set 5+k. W 13, 930)			
W 1940			6.5	4.4
W 1942			7.4	2.5
N.74+00; 0+00 = W. 13, 700				
0			5.5	5.4
W 100			5.5	5.4
W 200			5.5	5.4
W 300	(contd P 9.50)		6.5	4.4
W 303			6.6	4.3
W 304			7.3	3.6
E 100			5.3	5.6
E 200			5.3	5.6
E 300			5.7	5.2
E 400			5.7	5.2
E 500			5.9	5.0
E 600			5.4	5.5
E 700			5.4	5.5

Sta	+	H.I	-	Elev
E 800		10.90	5.3	5.6
E 900			5.1	5.8
E 1000			5.2	5.7
E 1090			5.4	5.5
E 1100			6.6	4.3
E 1115			8.2	2.7
E 1130			8.2	2.7
E 1158			6.6	4.3
E 1200			5.6	5.3
E 1300			5.0	5.9
E 1400			4.8	6.1
E 1500			4.4	6.5
E 1600			4.3	6.6
E 1683			4.8	6.1
E 1684			5.6	5.3
E 1700			6.5	4.4
E 1735			6.3	4.6
E 1750			7.7	3.2
(contd P 9.13)				

5 set sta
W 1400

N. 73+00; 0+00 = W. 12,000 11-14-56				
Sta	+	H.1	-	Elev
0		10.90	4.1	6.8
E 60			4.8	6.1
E 61			5.6	5.3
E 90			5.9	5.0
E 100			6.9	4.0
W 100			4.1	6.8
W 200			4.5	6.4
W 300			4.8	6.1
W 400			4.9	6.0
W 490			6.0	4.9
W 500			7.0	3.9
W 505			8.2	2.7
W 518			8.6	2.3
W 570			4.9	6.0
W 600			4.9	6.0
W 700			5.0	5.9
W 800			4.8	6.1
W 900			5.3	5.6
W 1000			5.4	5.5
W 1100			5.5	5.4

N. 73+00 CONTD. WEST (22)				
Sta	+	H.1	-	Elev
W 1200		10.90	5.6	5.3
W 1300			5.6	5.3
W 1400			5.5	5.4
W 1500			5.3	5.6
W 1600			5.3	5.6
W 1700			5.3	5.6
W 1800			5.5	5.4
W 1900			5.6	5.3
W 1966			6.5	4.4
W 2000			8.2	2.7
W 2085			8.6	2.3
W 2090			9.6	1.3
W 2100			6.7	4.2

W 2110 (cont'd #95) 8.0 2.9

(Set stk
W 14,100)

N.72+00; 0+00 = W.13,700 11-14-56

Sta	+	H.I	-	Elev
0		10.90	5.4	5.5
W100			5.4	5.5
W200			6.0	4.9
W227			6.2	4.7
W240			9.2	1.7
W255			9.3	1.7
W264			7.9	3.0
W300			6.9	4.0
W400			6.0	4.9
W439			5.9	5.0
W440 (cont'd pg. 51)			8.2	2.7
E100			5.3	5.6
E200			5.2	5.7
E300			5.2	5.7
E400			5.3	5.6
E500			5.6	5.3
E600			5.5	5.4
E700			5.6	5.3
E800			5.4	5.5
E900			4.9	6.0

N.72+00 CONTD. EAST

Sta	+	H.I	-	Elev
E1000		10.90	4.6	6.3
E1100			4.6	6.3
E1200			5.4	5.5
E1240			7.0	3.9
E1266			8.5	2.4
E1277			6.3	4.6
E1300			6.2	4.7
E1400			5.5	5.4
E1500			4.3	6.6
E1600			4.5	6.4
E1700			4.0	6.9
E1800			4.1	6.8
E1820			4.8	6.1
E1826			5.4	5.5
E1840			9.3	1.6

(5 of 4) W1400

N. 71+00	0+00 =	W. 12,000	N-14-56
Sta	+	H. 1	- Elev
0		10.90	4.4 6.5
E 100			4.4 6.5
E 110			4.5 6.4
E 115			4.9 6.0
E 116			6.5 4.4
E 130			9.1 1.8
W 100			4.6 6.3
W 200			5.3 5.6
W 300			5.4 5.5
W 350			6.1 4.8
W 367			8.4 2.5
W 387			5.9 5.0
W 400			5.9 5.0
W 500			4.8 6.1
W 600			4.6 6.3
W 700			4.6 6.3
W 800			5.0 5.9
W 900			5.5 5.4
W 1000			5.3 5.6
W 1100			5.1 5.8

N. 71+00	CONTD WEST	Sta	+	H. 1	-	Elev
W 1200				10.90	5.1	5.8
W 1300					5.1	5.8
W 1400					5.1	5.8
W 1500					5.0	5.9
W 1600					5.0	5.9
W 1700					5.0	5.9
W 1800					5.2	5.7
W 1830					5.6	5.3
W 1865					6.9	4.0
W 1870					8.6	2.3
W 1900					8.9	2.0
W 1922					9.1	1.8
W 1946					6.6	4.3
W 2000					6.6	4.3
W 2100 (cont'd) F752					5.5	5.4
W 2103					5.5	5.4
W 2105					7.4	3.5

(Set Sta W14100)

N.70+00; 0+00 = W. 13,700 11-14-56

Sta	+	H.I	-	Elev
0		10.90	5.6	5.3
W 100			5.5	5.4
W 133			6.2	4.7
W 145			9.1	1.8
W 170			9.1	1.8
W 186			6.0	4.9
W 200			6.0	4.9
W 300			6.4	4.5
W 330 (cont'd P 9 52)			6.6	4.3
W 335			6.8	4.1
W 337			8.0	2.9
E 100			5.4	5.5
E 200			4.7	6.2
E 300			5.0	5.9
E 400			5.0	5.9
E 500			4.8	6.1
E 600			4.9	6.0
E 700			5.0	5.9
E 800			5.2	5.7
E 900			5.1	5.8

N.70+00 CONTD EAST

Sta	+	H.I	-	Elev
E 1000		10.90	4.5	6.4
E 1100			4.3	6.6
E 1200			4.5	6.4
E 1300			5.6	5.3
E 1395			6.3	4.6
E 1400			6.6	4.3
E 1435			5.7	5.2
E 1500			4.9	6.0
E 1600			4.5	6.4
E 1700			3.9	7.0
E 1770			4.9	6.0
E 1776			4.8	6.1
E 1790			8.1	2.8
T.B.M.			2.82	8.08
T.B.M.			7.85	
			3.75	11.60

N.7000
W.12000
8.01
P 9.14
N.7300
W.13700

N. 69+00; 0+00 = W13,700 11-15-56

Sta	+	H.I	-	Elev
0		11.60	7.0	4.6
W 73			7.3	4.3
W 90			9.1	2.5
W 100			8.5	3.1
W 132			7.7	3.9
W 200			6.8	4.8
W 230 (Contd Pg 53)			6.7	4.9
W 240			7.2	4.4
W 260			9.2	2.4
E 100			6.2	5.4
E 200			5.9	5.7
E 300			5.8	5.8
E 400			5.7	5.9
E 500			5.7	5.9
E 600			5.3	6.3
E 700			5.6	6.0
E 800			5.4	6.2
E 890			6.3	5.3
E 900			6.0	5.6
E 1000			5.7	5.9

N 69+00 CONTD EAST

(26)

Sta	+	H.I	-	Elev
E 1100		11.60	5.2	6.4
E 1200			4.9	6.7
E 1300			5.0	6.6
E 1400			6.1	5.5
E 1500			6.2	5.4
E 1600			5.5	6.1
E 1700			5.3	6.3
E 1760			4.8	6.8
E 1762			7.2	4.4
N. 68+00; 0+00 = W 12,000				
0			5.4	6.2
E 50			6.0	5.6
E 55			7.4	4.2
E 60			8.2	3.4
W 100			5.7	5.9
W 200			5.9	5.7
W 300			5.2	6.4
W 400			4.7	6.9
W 500			4.9	6.7
W 600			4.9	6.7

(Set stk)
W13930

N. 68+00; CONTD WEST 11-15-56

Sta	+	H.I.	-	Elev
W 700		11.60	6.0	5.6
W 800			5.5	6.1
W 900			5.4	6.2
W 1000			5.7	5.9
W 1100			5.6	6.0
W 1200			5.4	6.2
W 1300			5.7	5.9
W 1400			6.3	5.3
W 1500			7.2	4.4
W 1600			6.7	4.9
W 1700			6.2	5.4
W 1800			6.6	5.0
W 1860			6.4	5.2
W 1865			6.5	5.1
W 1900			9.6	2.0

N. 67+00; 0+00=W. 13.700

Sta	+	H.I.	-	Elev
0		11.60	6.3	5.3
W 100			6.0	5.6
W 120 (cont'd P 958)			6.0	5.6
W 123			6.0	5.6
W 124			7.5	4.1
W 140			9.4	2.2
E 100			6.2	5.4
E 200			6.3	5.3
E 300			6.7	4.9
E 400			6.3	5.3
E 500			5.9	5.7
E 600			6.2	5.4
E 700			5.2	6.4
E 800			5.0	6.6
E 900			5.2	6.4
E 1000			5.6	6.0
E 1100			5.6	6.0
E 1200			4.9	6.7
E 1300			4.8	6.8
E 1400			4.7	6.9

(27)

Set Sta
W 13820Set Sta
W 13860

N. 67+00 CONTD EAST 11-15-56

Sta	+	H.1	-	Elev
E1500		11.60	5.8	5.8
E1600			4.8	6.8
E1700			5.5	6.1
E1770			5.0	6.6
E1775			7.6	4.0
E1790			11.4	0.2
N. 66+00; 0+00 = W. 12,000				
0			5.0	6.6
E 90			5.5	6.1
E100			5.3	6.3
E102			5.3	6.3
E120			10.4	1.2
W100			5.3	6.3
W200			4.8	6.8
W300			4.9	6.9
W400			5.0	6.6
W500			5.4	6.2
W600			5.7	5.9
W700			5.2	6.4
W800			5.2	6.4

N. 66+00 CONTD WEST

Sta	+	H.1	-	Elev
W900		11.60	5.7	5.9
W1000			6.0	5.6
W1100			5.9	5.7
W1200			6.1	5.5
W1300			5.5	6.1
W1400			5.9	5.7
W1500			6.0	5.6
W1600			6.3	5.3
W1700			6.6	5.0
W1780 (Contd P959)			7.8	3.8
W1800			9.5	2.1
N. 65+00; 0+00 = W. 13,700				
0			8.3	3.3
W60 (Contd P960)			8.8	2.8
W65			8.5	3.1
W100			11.8	-0.2
E100			8.5	3.1
E200			8.6	3.0
E300			8.7	2.9
E400			7.8	3.8

N.65+00; CONTD EAST 11-15-56

Sta	+ H.I	-	Elev
E445	11.60	6.8	4.8
E500		7.2	4.6
E600		7.1	4.5
E700		6.5	5.1
E800		6.1	5.5
E900		6.2	5.4
E1000		6.2	5.4
E1040		5.1	6.5
E1100		5.4	6.2
E1200		4.7	6.9
E1300		4.7	6.9
E1400		4.7	6.9
E1500		5.1	6.5
E1600		4.7	6.9
E1700		4.4	7.2
E1710		4.4	7.2
E1715		6.9	4.7
E1750		10.2	1.4

N.64+00; 0+00 = W.12,000

Sta	+ H.I	-	Elev
0	11.60	7.5	4.1
E100		7.4	4.2
E200		7.3	4.3
E210		7.3	4.3
W75		8.1	3.5
W100		10.2	1.4
W200		10.0	1.6
W230		10.0	1.6
W300		8.3	3.3
W330		7.5	4.1
W400		7.6	4.0
W500		7.6	4.0
W600		7.7	3.9
W700		7.8	3.8 ✓
W800		8.1	3.5
W900		8.0	3.6
W1000		8.6	3.0
W1100		9.1	2.5
W1200		9.1	2.5
W1300		9.2	2.4

N. 64+00 CONT'D WEST 11-15-56

Sta	+ H.I	- Elev
W 1400	11.60	9.4 2.2
W 1500		9.8 1.8
W 1600		10.4 1.2
W 1700 (Cont'd Pg 61)		9.3 2.3
T.B.M.	5.65	5.95 ~ 5.98
	4.80	10.78
N. 63+00; 0+00 = W. 13, 700		
0	10.78	5.4 5.4
W 60 (Cont'd Pg 12)		5.4 5.4 (Set stake) W 13760
W 66		5.8 5.0
W 67		7.3 3.5
W 100		11.2 -0.4
E 100		5.2 5.6
E 135		5.5 5.3
E 150		8.0 2.8
E 153		10.0 0.8
E 180		10.6 0.2
E 188		7.3 3.5
E 200		5.8 5.0
E 300		5.7 5.1

N. 63+00 CONT'D EAST.

Sta	+ H.I	- Elev
E 330	10.78	6.4 4.2
E 340		6.8 4.0
E 360		7.1 3.7
E 385		5.6 5.2
E 393		7.6 3.2
E 400		7.5 3.3
E 415		5.1 5.7
E 500		5.4 5.4
E 600		5.0 5.8
E 700		4.7 6.1
E 765		5.0 5.8
E 766		6.6 4.2
E 800		6.6 4.2
E 900		7.7 3.1
E 940		9.0 1.8
E 1000		9.1 1.7
E 1100		9.3 1.5
E 1200		9.2 1.6
E 1300		8.7 2.1
E 1400		8.6 2.2

N. 63+00 CONTD EAST 11-15-56

Sta	+	H.I	-	Elev
E 1445		10.78	8.4	2.4
E 1500			5.8	5.0
E 1600			5.6	5.2
E 1700 (cont'd MB 95, P 919)			5.3	5.5
N. 62+00; 0+00 = W. 12,000				
0			5.3	5.5
W 100			5.0	5.8
W 200			5.0	5.8
W 300			4.8	6.0
W 400			4.9	5.9
W 500			4.8	6.0
W 600			5.2	5.6
W 700			4.9	5.9
W 800			5.1	5.7
W 900			4.8	6.0
W 1000			5.0	5.8
W 1100			5.5	5.3
W 1120			5.5	5.3
W 1134			7.4	3.4
W 1140			7.6	3.2

N. 62+00 CONTD WEST

(31)

Sta	+	H.I	-	Elev
W 1148		10.78	5.8	5.0
W 1200			6.5	4.3
W 1300			5.7	5.1
W 1400			6.3	4.5
W 1442			7.3	3.5
W 1450			10.3	0.5
W 1470			10.0	0.8
W 1485			5.3	5.5
W 1500			5.5	5.3
W 1600			5.5	5.3
W 1700			5.4	5.4
W 1700 (cont'd P 963)			5.9	4.9
W 1786			6.0	4.8
W 1789			8.0	2.8
W 1800			8.7	2.1

(Set stk)
W 13,780

N. 61+00; 0+00 = W 13,700 11-15-56					N 61+00 Cont East					(32)
Sta	+	H.1	-	Elev	Sta	+	H.1	-	Elev	
0		10.78	5.7	5.1	E 743		10.78	5.5	5.3	
W 100			5.6	5.2	E 800			5.5	5.3	
W 110 (Contd/Pg 64)			5.9	4.9	E 900			5.4	5.4	
W 118			8.0	2.8	E 1000			5.3	5.5	
E 100			5.6	5.2	E 1100			4.8	6.0	
E 200			5.5	5.3	E 1200			4.9	5.9	
E 288			5.9	4.9	E 1300			4.7	6.1	
E 295			11.3	-0.5	E 1400			4.6	6.2	
E 300			11.5	-0.7	E 1500			4.7	6.1	
E 310			10.8	0.0	E 1600			4.6	6.2	
E 320			7.2	3.6	E 1700			4.4	6.4	
E 335			7.2	3.6	N 60+00; 0+00 = 12,000 West					
E 345			6.1	4.7	0			4.5	6.3	
E 400			5.7	5.1	W 100			4.5	6.3	
E 500			5.5	5.3	W 200			4.6	6.2	
E 600			5.5	5.3	W 300			4.9	5.9	
E 700			5.6	5.2	W 400			4.6	6.2	
E 715			5.6	5.2	W 500			5.3	5.5	
E 725			6.9	3.9	W 600			5.4	5.4	
E 734			6.9	3.9	W 700			5.4	5.4	

N 60+00 Cont West				
sta	+	H.I.	-	Elev
W 785		10.78	5.6	5.2
W 794			6.6	4.2
W 800			6.6	4.2
W 802			6.6	4.2
W 808			5.6	5.2
W 900			5.6	5.2
W 1000			5.5	5.3
W 1100			5.5	5.3
W 1200			5.9	4.9
W 1230			6.4	4.4
W 1240			10.6	0.2
W 1283			10.1	0.7
W 1295			7.6	3.2
W 1300			7.6	3.2
W 1337			5.5	5.3
W 1400			5.4	5.4
W 1500			5.8	5.0
W 1600			5.9	4.9
W 1700			5.9	4.9
W 1800			5.8	5.0

N 60+00 Cont West					
sta	+	H.I.	-	Elev	
W 1850		10.78	6.6	4.8	W 13,850 Set stc
W 1855	(Cont'd P 965)		5.9	4.9	
W 1857			8.1	2.7	N. 6,000 W 12,000
B.M.			3.60	7.18	7.16 (P 9.14)
N 99+00; 0+00 = W. 10,000					
TBM	435	10.23		5.88	N 9,700 W 10,000
0			5.6	4.6	
E 100			5.3	4.9	
E 200			5.2	5.0	
E 275			5.5	4.7	
E 292			8.1	2.1	
E 304			8.5	1.7	
E 317			8.1	2.1	

N. 100+00; 0+00 = W 10,000 11-16-56

Sta + H.I - Elev

0 10.23 5.9 4.3

E 100 5.4 4.8

E 200 5.1 5.1

E 227 5.3 4.9

E 235 8.7 1.5

E 243 9.4 0.8

E 258 7.2 3.0

TBM. 4.35 5.88 ~5.88

N. 59+00; 0+00 = W 13,700

TBM. 4.20 11.70 7.50

0 6.9 4.8

W 78 7.2 4.5

W 90 9.7 2.0

W 95 10.0 1.7

W 100 8.7 3.0

W 110 8.0 3.7

W 125 9.8 1.9

W 133 9.8 1.9

W 155 7.4 4.3

W 180 8.9 2.6

(Cont'd Pg. 66)

N. 58+00; 0+00 = W 13,700

Sta + H.I - Elev

0 11.70 6.3 5.4

W 38 7.0 4.7

W 48 9.1 2.6

W 55 7.0 4.7

W 100 6.4 5.3

W 200 6.3 5.4

W 220 (Cont'd Pg 67) 6.2 5.5

W 230 6.6 5.1

W 332 8.3 3.4

E 100 6.4 5.3

E 200 6.6 5.1

E 300 6.6 5.1

E 400 6.4 5.3

E 500 6.3 5.4

E 517 6.6 5.1

E 523 9.9 1.6

E 530 10.8 0.9

E 534 7.9 3.8

E 600 6.6 5.1

E 700 6.7 5.0

N. 5500

W 13700

(stk) W 1380

(stk) W 13920

N.58+00 CONT'D EAST 11-16-56

	Sto	+	H.1	-	Elev.
✓	E 722		11.70	6.9	4.8
✓	E 724			10.3	1.4
✓	E 787			11.1	0.6
	E 797			7.5	4.2
	E 900			7.4	4.3
	E 1000			6.9	4.8
✓	E 1100			6.6	5.1
	E 1200			6.6	5.1
✓	E 1226			6.7	5.0
✓	E 1231			7.6	4.1
✓	E 1235			7.7	4.0
✓	E 1242			6.8	4.9
✓	E 1300			6.5	5.2
✓	E 1400			6.4	5.3
✓	E 1500			5.4	6.3
✓	E 1600			5.3	6.4
✓	E 1700			5.4	6.3

N.56+00, 0700 = W. 12,000

	Sto	+	H.1	-	Elev
	0		11.70	6.6	5.1
	W 100			6.4	5.3
	W 200			6.4	5.3
	W 300			6.4	5.3
	W 400			6.4	5.3
	W 500			6.0	5.7
	W 600			5.6	6.1
	W 700			5.5	6.2
	W 800			5.6	6.1
	W 900			5.3	6.4
	W 1000			5.7	6.0
	W 1100			6.2	5.5
	W 1140			6.5	5.2
	W 1144			7.6	4.1
	W 1150			6.6	5.1
	W 1170			7.4	4.3
	W 1173			10.5	1.2
	W 1178			10.5	1.2
	W 1181			6.7	5.0
	W 1200			6.3	5.4

(33)

N. 56+00 CONTD WEST 11-16-56

Sta + H.I. - Elev

Sta	H.I.	Elev
W1300	11.70	6.0
W1400		6.1
W1500		6.0
W1600		6.4
W1700		5.8
W1800		5.0
W1900		4.6
W2000		4.5
W2045		4.0
W2080		1.7
W2100		1.4
W2130		1.3
W2140		3.0
W2200		2.5
W2300		2.8
W2320		2.5
W2325		2.9
W2345		0.9

E. Edge
Rd. To S
Fill

N. 57+00; 0+00 = W13,700

Sta + H.I. - Elev

Sta	H.I.	Elev
0	11.70	7.0
W10		7.8
W18		6.3
W100		5.9
W180		5.6
W200		6.4
W220		5.1
W260 (Contd Pg. 68)		5.5
W270		5.5
W272		7.5

Sta
W13960

(36)

N. 54+00; 0+00 = W 13,700 11-16-56

N. 54+00 CONTD EAST

Sta	+	H.1	-	Elev
0		11.70	5.0	6.7
E 100			5.1	6.6
E 200			5.4	6.3
E 300			5.6	6.1
E 400			5.7	6.0
E 500			5.7	6.0
E 540			6.8	4.9
E 546			9.4	2.3
E 547			10.1	1.6
E 551			7.3	4.4
E 600			6.1	5.6
E 700			5.9	5.8
E 800			5.5	6.2
E 862			5.8	5.9
E 868			7.3	4.4
E 874			5.6	6.1
E 900			5.3	6.4
E 1000			5.1	6.6
E 1100			5.9	5.8
E 1200			5.1	6.6

Sta	+	H.1	-	Elev
E 1300		11.70	5.4	6.3
E 1400			5.6	6.1
E 1500			6.0	5.7
E 1600			6.0	5.7
E 1700			5.6	6.1

N. 52+00; 0+00 = W 12,000

0			5.6	6.1
W 100			5.5	6.2
W 200			5.4	6.3
W 300			5.6	6.1
W 400			5.8	5.9
W 500			5.4	6.3
W 600			5.3	6.4
W 700			5.6	6.1
W 800			5.6	6.1
W 900			6.0	5.7
W 920			6.5	5.2
W 922			9.2	2.5
W 925			9.4	2.3
W 927			8.0	3.7

N. 52+00 CONTD WEST 11-16-56

N. 50+00 CONTD EAST

(38)

Sta	+	H.I	-	Elev
W 944		11.70	6.5	5.2
W 1000			6.1	5.6
W 1100			5.4	6.3
W 1200			5.3	6.4
W 1300			5.1	6.6
W 1400			5.1	6.6
W 1500			4.5	7.2
W 1600			4.5	7.2
W 1700			4.2	7.5
N. 50+00; 0+00 = W. 13.700				
0			3.9	7.8
E 100			4.4	7.3
E 200			4.4	7.3
E 300			4.6	7.1
E 400			4.8	6.9
E 500			5.0	6.7
E 600			5.3	6.4
E 700			5.1	6.6
E 800			5.1	6.6
E 900			5.1	6.6

Sta	+	H.I	-	Elev
E 988		11.70	6.2	5.5
E 995			7.2	4.5
E 1000			6.5	5.2
E 1005			7.2	4.5
E 1010			6.0	5.7
E 1100			5.7	6.0
E 1200			5.2	6.5
E 1300			4.3	7.4
E 1400			4.3	7.4
E 1500			4.4	7.3
E 1600			4.9	6.8
E 1700			5.4	6.3
TBM.			5.22	6.48 ~ 6.45

(Pg. 14)

W143+00; 0+00 = N. 5,600

Sta + H.I - Elev

0 13.00 4.1 8.9

W13700 N. 50 5.0 8.0

N. 60 2.6 10.4

N. 80 2.5 10.5

N 100 5.9 7.1

N 110 (Contd P970) 7.9 5.1

N. 5710
Set stk.

W. 140+00; 0+00 = N. 5,600 11-16-56

Sta + H.I - Elev (P970) N5500

TBM. 5.50 13.00 7.50

0 5.8 7.2

N. 27 6.2 6.8

N 100 12.2 0.8

W 140+50; 0+00 = N 5600

0 5.1 7.9

N 10 (Contd P969) 6.5 6.5

W 141+00; 0+00 = N 5,600

0 2.8 10.2

N 10 3.3 9.7

N 60 (Contd P970) 12.3 0.7

W 142+00; 0+00 = N 5,600

0 3.8 9.2

N. 20 3.5 9.5

N 24 2.2 10.8

N 43 2.1 10.9

N. 80 (Contd P970) 9.9 3.1

(cont'd from P915) 11-19-56

N 83+00; 0+00 = W 13,150; SOUND WEST

N 83+00; SOUND WEST

(A)

	Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev
V												
V	0+00	4.0	+3.2	(7.2)	17.2	10.0	(7.2)	16.5	9.3	(7.2)	17.1	9.9
V	(7.2)	4.0	+3.2	2+00	17.3	10.1	4+00	16.2	9.0	6+00	16.9	9.2
V	<u>9.13</u>	4.3	+2.9		17.4	10.2		15.9	8.7		16.9	9.7
V		4.9	+2.3		17.4	10.2		16.8	9.6		17.0	9.8
V		5.4	+1.8	<u>9.17</u>	17.8	10.6		16.4	9.2		17.1	9.9
V	50	5.4	+1.8		17.8	10.6		16.8	9.6		17.1	9.9
V		5.8	+1.4	50	17.8	10.6	50	16.9	9.7	50	17.0	9.8
V		6.1	+1.1		18.0	10.8		16.8	9.6		17.0	
V		6.3	+0.9		17.7	10.5		16.8			17.0	
V		7.0	+0.2		17.2	10.0		16.8			17.0	9.8
V	1+00	7.7	0.5		17.0	9.8		16.8			16.3	9.1
V		8.8	1.6	3+00	16.8	9.6	5+00	16.8	9.6	7+00	14.5	7.3
V		12.2	5.0		16.3	9.1	9+00	16.5	9.3		12.5	5.3
V		14.8	7.6		16.2	9.0		16.6	9.4		11.5	4.3
V		15.9	8.7		16.2	9.0		16.8	9.6		11.5	4.3
V	50	16.7	9.5		17.0	9.8		16.7	9.5		11.0	3.8
V		17.2	10.0	50	17.9	10.7	50	16.9	9.7	50	11.8	4.6
V		17.8	10.6		16.9	9.7		16.8	9.6		11.8	4.6
V		17.6	10.4		16.5	9.3		17.3	10.1		12.7	5.5

N 83+00; CONTD WEST 11-19-56

(cont'd from Pg. 16) 11-19-56 Plotted Roll 22-A²³

Dist Sound Elev

N. 82+00; 0+00 = W 13,200; SOUND WEST

Dist	Sound	Elev
(7.2)	12.9	5.7
<u>9:23</u>	13.0	5.8
8+00	12.9	5.7
	12.5	5.3 (cont'd MB 89, P 98)
	12.2	5.0
	12.0	4.8
	12.1	4.9
50	12.0	4.8
	12.1	4.9
	12.2	5.0
	12.3	5.1
	13.0	5.8
9+00	13.0	5.8
	13.0	5.8
	13.1	5.9
	13.2	6.0
	14.0	6.8
50	14.2	7.0
	15.5	8.3
	16.2	9.0

Dist	Sound	Elev	Dist	Sound	Elev
	16.0	8.8			
0+00	4.3	+2.9	(7.2)	17.1	9.9
(7.2)	4.9	+2.3	2+00	16.8	9.6
<u>9:33</u>	4.2	+3.0	<u>9:35</u>	18.2	11.0
	4.5	+2.7		18.0	10.8
	5.1	+2.1		18.3	11.1
50	5.5	+1.7		17.3	10.1
	5.9	+1.3	50	17.2	10.0
	6.2	+1.0		17.0	9.8
	6.9	+0.3		16.9	9.7
	7.0	+0.2		17.3	10.1
1+00	8.1	0.9		17.2	10.0
	12.0	4.8	3+00	16.9	9.7
	15.0	7.8		17.0	9.8
	15.9	8.7		16.9	9.7
	16.1	8.9		16.7	9.5
50	16.2	9.0		16.7	9.5
	16.4	9.2	50	16.7	9.5
	17.0	9.8		17.0	9.8
	17.1	9.9		17.7	10.5

N. 82+00; SOUND WEST 11-19-56

Dist	Sound	Elev	Dist	Sound	Elev
(7.1)	17.7	10.6	(7.1)	17.3	10.2
<u>9.37</u>	17.9	10.8		17.8	10.7
4+00	18.1	11.0	6+00	17.8	10.7
	18.3	11.2		16.8	9.7
	18.1	11.0		16.9	9.8
	17.8	10.7		16.9	9.8
	17.0	9.9		17.0	9.9
50	16.3	9.2	50	16.8	9.7
	16.3			16.3	9.2
	16.3			16.0	8.9
	16.3		9.40	15.9	8.8
	16.3	9.2		15.8	8.7
5+00	16.3	9.4	7+00	15.5	8.4
	16.7	9.6		15.9	8.6
	16.9	9.8		15.2	8.1
	17.2	10.1		15.0	7.9
	17.1	10.0		14.2	7.1
50	17.0	9.9	50	13.3	6.2
	17.0	9.9		12.4	5.3
	17.0	9.9		12.3	5.2

N. 82+00; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
(7.1)	12.2	5.1	(7.1)	16.5	9.4
	11.4	4.3	<u>9.43</u>	17.1	10.0
8+00	11.0	3.9	<u>10+00</u>	17.0	9.9
	10.9	3.8		17.1	10.0
	10.9	3.8		17.1	10.0
	11.8	4.7	w	17.0	9.9
	11.8	4.7		17.1	10.0
50	12.0	4.9	50	17.1	10.0
	12.0	4.9			
	12.2	5.1			
	12.3	5.2			
	13.0	5.9			
9+00	13.1	6.0			
	13.2	6.1			
	13.3	6.2			
	14.1	7.0			
	14.5	7.4			
50	16.0	8.9			
	15.9	8.8			
	16.2	9.1			

(Cont'd MB 89, Pg. 8)

(contd from Pg 16) 11-19-56

N. 81+00; 0+00 = W/13,250 SOUND WEST

N 81+00; SOUND WEST

(14)

Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev
						(69)	16.5	9.6		15.3	8.4
0+00	3.9	+3.1	(7.0)	16.2	9.2	958	16.5	9.6	(69)	15.7	8.8
(7.0)	4.7	+2.3	2+00	17.2	10.2	4700	16.3	9.4	6+00	15.5	8.6
<u>9.55</u>	6.0	+1.0		18.4	11.4		16.3	9.4		15.5	8.6
	6.0	+1.0		17.5	10.5		16.8	9.8		15.7	8.8
	6.1	+0.9		16.3	9.3		16.8	9.8		15.5	8.6
50	5.3	+1.7		15.8	8.8		16.5	9.6		15.5	8.6
	5.3	+1.7	50	16.0	9.0	50	16.5	9.6	50	16.0	9.1
	5.3	+1.7		16.0	9.0		16.8	9.9		16.1	9.2
	5.2	+1.8		15.5	8.5		17.0	10.1		16.0	9.1
	5.2	+1.8		15.3	8.3		17.0	10.1	<u>1000</u>	16.3	9.4
1+00	5.7	+1.3		15.3	8.3		17.0	10.1		16.1	9.2
	6.0	+1.0	3+00	15.1	8.1	5400	16.8	9.9	7+00	16.0	9.1
	6.4	+0.6		15.3	8.3		16.4	9.5		16.2	9.3
	7.0	0.0		16.8	9.8		16.0	9.1		16.2	9.3
	7.1	0.1		16.9	9.9		15.9	9.0		16.5	9.6
50	8.0	1.0	✓	16.5	9.5		15.9	9.0		16.5	9.6
	9.8	2.8	50	16.5	9.5	50	15.9	9.0	50	16.8	9.9
	10.5	3.5		16.7	9.7		15.8	8.9		17.0	10.1
	16.0	9.0		16.6	9.6		15.5	8.6		16.7	9.8

Cont'd from P. 11			11-19-56			(Cont'd from P. 17)			11-19-56 Plotted Roll 22-A		
N. 81+00; SOUND WEST			N. 80+00; 0+00 = W 13,370; SOUND WEST								
Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev
(6.9)	16.5	9.6	(6.9)	14.9	8.0				(6.7)	15.8	9.1
1002	16.2	9.3		14.9	8.0	0+00	3.3	+3.5			
8+00	15.8	8.9	10+00	15.5	8.6	(6.8)	3.9	+2.9	2+00	15.9	9.2
	14.2	7.3		16.0	9.1	1013	3.9	+2.9	1015	15.9	9.2
	12.5	5.6		16.3	9.4		0.1	+2.7		15.8	9.1
	11.3	4.4		16.5	9.6		4.8	+2.0		15.5	8.8
	11.0	4.1		16.2	9.3	50	4.9	+1.9		15.4	8.7
50	11.0	4.1	50	16.1	9.2		5.2	+1.6	50	15.9	9.2
	11.2	4.3		16.3	9.4		5.5	+1.3		15.5	8.8
	11.5	4.6		16.5	9.6		5.8	+1.0		15.3	8.6
	11.6	4.7		16.0	9.1		6.8	0.0		15.2	8.5
1	12.2	5.3		16.2	9.3	+00	6.0	+0.8		15.6	8.9
9+00	12.0	5.1	11+00	16.9	10.0		6.1	+0.7	3+00	15.3	8.6
	12.1	5.2		16.3	9.4		6.5	+0.3		16.0	9.3
	12.5	5.6		16.2	9.3		6.9	0.1		16.8	10.1
	12.8	5.9		16.1	9.2		7.3	0.5		16.8	10.1
	13.1	-6.2	10:05	16.0	9.1	50	9.8	3.0		17.0	10.3
50	13.8	6.9	50	15.1	8.2		11.9	5.1	50	16.8	10.1
	13.8	6.9	(cont'd MB 89, P. 7)				14.2	7.4		16.1	9.4
	14.5	7.6					15.2	8.4		16.0	9.3

Contd from Page 11

N. 80+00; SOUND WEST				N. 80+00; SOUND WEST				
Dist	Sound	Elev	Dist	Sound	Elev	Dist	Sound	Elev
(6.7)	15.5	8.8	(6.7)	16.0	9.3	(6.6)	16.2	9.6
	15.3	8.6		16.2	9.5	<u>1022</u>	16.0	9.4
4+00	15.4	8.7	6+00	16.2	9.5	8+00	15.8	9.2
	15.6	8.9		16.7	10.0		15.2	8.6
	16.1	9.4		17.0	10.3		15.3	8.7
	16.2	9.5		16.9	10.2		14.8	8.2
	16.4	9.7		17.0	10.3		14.0	7.4
50	16.5	9.8	50	17.1	10.4	50	13.0	6.4
	16.2	9.5		17.1	10.4		13.0	6.4
	16.2	9.5		17.0	10.3		12.3	5.7
	16.1	9.4		17.0	10.3		11.5	4.9
	16.1	9.4		16.8	10.1		11.3	4.7
5+00	16.0	9.3	7+00	16.4	9.7	9+00	12.6	6.0
	15.9	9.2		16.5	9.8		13.0	6.4
	15.5	8.8		16.7	10.0		13.9	7.3
<u>1020</u>	15.5	8.8		16.7	10.0		13.9	7.3
	15.2	8.5		16.2	9.5		14.8	8.2
50	15.1	8.4	50	16.2	9.5	50	15.2	8.6
	15.8	9.1		16.5	9.8		16.0	8.4
	15.8	9.1		16.2	9.5		15.6	9.0

(contd MB. 89, P. 9.7)

(Cont'd from Pg. 17) 11-19-56
N. 79+00; 0+00 = W 13,480; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	2.1	+4.4	(6.4)	15.2	8.8
(6.4)	4.0	+2.4	2+00	15.9	9.5
<u>10:35</u>	4.0	+2.4		16.0	9.6
	3.5	+2.9		16.0	9.6
	3.7	+2.7		15.7	9.3
50	3.9	+2.5		15.2	8.8
	4.0	+2.4	50	15.1	8.7
	4.3	+2.1		15.1	8.7
	4.7	+1.7		15.0	8.6
	5.1	+1.3		15.1	8.7
1+00	5.5	+0.9		15.0	8.6
	5.9	+0.5	3+00	15.0	8.6
	6.7	0.3		15.2	8.6
	7.8	1.4		15.5	9.1
	8.9	2.5		15.4	9.0
50	10.0	3.6		15.3	8.9
	11.2	4.8	50	15.3	8.9
	13.0	6.6		15.4	9.0
	14.7	8.3		15.6	9.2

N. 79+00; SOUND WEST (7)

Dist	Sound	Elev	Dist	Sound	Elev
(6.3)	15.6	9.3	(6.3)	16.0	9.7
<u>10:38</u>	15.3	9.2		16.0	9.7
4+00	15.5	9.2	6+00	16.5	10.2
	15.3	9.0		16.6	10.3
	15.1	8.8		17.0	10.7
	15.1	8.8		17.0	10.7
	15.2	8.9		16.7	10.4
50	15.2	8.9	50	16.5	10.2
	16.0	9.7		16.8	10.5
	15.6	9.3		16.6	10.3
	16.2	9.9		16.0	9.7
	16.2	9.9		15.2	8.9
5+00	16.1	8.8	7+00	14.8	8.5
	15.9	9.6		14.8	8.5
	15.9	9.6		14.0	7.7
	15.9	9.6		14.9	8.6
	16.0	9.7		14.7	8.4
50	16.0	9.7	50	14.6	8.3
	15.5	9.2		14.2	7.9
	16.0	9.7		14.3	8.0

N. 79+00: SOUND WEST 11-19-56

Dist Sound Elev Dist Sound Elev

(6.3)	14.3	8.0	(6.3)	17.1	10.8
	14.3	8.0		17.0	10.7
8+00	14.4	8.1	10+00	17.0	10.7
<u>10.42</u>	13.5	7.2			
	13.0	6.7			
	13.2	6.9			
	13.4	7.1			
50	13.4	7.1			
	13.8	7.5			
	14.0	7.7			
	15.0	8.7			
	14.7	8.4			
9+00	14.7	8.4			
	15.5	9.2			
	16.0	9.7			
	16.3	10.0			
	16.8	10.5			
50	16.8	10.5			
	17.0	10.7			
	17.2	10.9			

(Contd from Pg 18)

N. 78+00: 0+00 = W 13.620; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	2.2	+9.0	(6.1)	15.9	9.8
(6.2)	2.9	+3.3	2+00	15.9	9.8
<u>10.53</u>	3.2	+3.0	<u>10.55</u>	15.9	9.8
	3.7	+2.5		15.2	9.1
	4.0	+2.2		14.7	8.6
50	4.2	+2.0		14.8	8.7
	4.9	+1.3	50	14.8	8.7
	5.1	+1.1		14.8	8.7
	5.4	+0.8		15.1	9.0
	6.1	+0.1		16.0	9.9
1+00	7.0	0.8		16.5	10.4
	8.0	1.8	3+00	16.7	10.6
	9.4	3.2		17.2	11.1
	11.1	4.9		17.3	11.2
	13.0	6.8		17.0	10.9
50	15.2	9.0		16.8	10.7
	15.5	9.3	50	16.2	10.1
	15.9	9.7			
	15.8	9.6			

(contd from Pg 18) 11-19-56
N. 77+00; 0+00 = W/13,730; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	2.7	+3.3	60	16.2	10.2
60	3.1	+2.9	2+00	16.2	10.2
<u>11.02</u>	3.4	+2.6		15.8	9.8
	4.1	+1.9		15.2	9.2
	4.7	+1.3		15.8	9.8
50	5.0	+1.0		16.8	10.8
	5.3	+0.7	50	16.4	10.4
	6.1	0.1		15.7	9.7
	7.0	1.0		15.2	9.2
	8.5	2.5		15.5	9.5
1+00	9.2	3.2		15.6	9.6
	9.2	3.2	3+00	16.5	10.5
	10.0	4.0			
	12.3	6.3			
	14.5	8.5			
50	15.2	9.2			
	15.2	9.2			
	15.6	9.6			
	15.3	9.3			

(contd from Pg 19) (29)
N. 76+00; 0+00 = W/13,840; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	1.9	+3.9	5.8	14.9	9.1
	2.9	+2.9	2+00	14.7	8.9
<u>11.12</u>	3.1	+2.7		14.8	9.0
	3.5	+2.3		14.6	8.8
	3.9	+1.9		14.2	8.4
50	4.1	+1.7		14.3	8.5
	4.3	+1.5	50	14.3	8.5
	4.9	+0.9		14.5	8.7
	5.4	+0.4		14.9	9.1
	5.9	0.1		15.3	9.5
1+00	6.2	0.4		15.8	10.0
	7.8	2.0	3+00	16.0	10.2
	11.4	5.6			
	13.3	7.5			
	14.3	8.5			
50	14.7	8.9			
	15.0	9.2	50		
	15.3	9.5			
	15.2	9.4			

(contd from pg 21) 11-19-56
N. 75+00; 0+00 = W. 13,930; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	0.9	+4.7	(5.6)	14.3	8.7
(5.6)	2.0	+3.6	2+00	14.2	8.6
<u>11:20</u>	2.7	+2.9		14.3	8.7
	3.0	+2.6		14.2	8.6
	3.2	+2.4		14.1	8.5
50	3.5	+2.1		14.0	8.4
	4.0	+1.6	50	14.0	
	4.3	+1.3		14.0	
	5.0	+0.6		14.0	8.4
	5.3	+0.3		14.2	8.6
1+00	6.0	0.4		14.8	9.2
	6.3	0.7	3+00	15.0	9.4
	7.4	1.8		15.0	9.4
	8.0	2.4		15.3	9.7
	8.8	3.2		15.8	10.2
50	10.8	5.2		16.0	10.4
	12.8	7.2	50	16.1	10.5
	13.7	8.1			
	14.0	8.4			

(contd from pg 21) (50)
N. 74+00; 0+00 = W. 14,000; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	0.8	+4.7	(5.4)	15.2	9.8
(5.5)	2.2	+3.3	2+00	15.9	10.5
<u>11:28</u>	3.0	+2.5		16.0	10.6
	3.2	+2.3		16.0	
	3.9	+1.6		16.0	
50	4.0	+1.5		16.0	10.6
	4.2	+1.3	50	15.4	10.0
	4.5	+1.0		15.3	9.9
	4.8	+0.7		15.3	9.9
	4.9	+0.6		15.2	9.8
1+00	5.1	+0.4		15.0	9.6
	5.5	0.0	3+00	15.0	9.6
	7.0	1.5			
	8.0	2.5			
	9.0	3.5			
50	10.9	5.4			
	12.2	6.7			
	14.1	8.6			
	14.7	9.2			

Contd from pg 22) 11-19-56
N. 73+00; 0+00 = W. 14, 100; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	1.0	+4.3	(5.2)	14.0	8.8
(5.3)	2.8	+2.5	2+00	14.0	8.8
<u>11:37</u>	3.2	+2.1	<u>11:40</u>	14.1	8.9
	3.5	+1.8		14.5	9.3
	4.0	+1.3		14.6	9.4
50	4.3	+1.0		14.8	9.6
	5.0	+0.3	50	15.0	9.8
	6.2	0.9		15.0	9.8
	13.1	7.8		14.8	9.6
	15.0	9.7		14.8	9.6
1+00	15.8	10.5		14.5	9.3
	16.0	10.7	3+00	14.5	9.3
	16.0	10.7			
	15.3	10.0			
	14.9	9.6			
50	14.0	8.7			
	14.0	8.7			
	14.1	8.8			
	14.1	8.8			

(Contd from pg 23) (51)
N 72+00; 0+00 = W 14, 140; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	2.0	+3.0	(5.0)	13.9	8.9
(5.0)	3.0	+2.0	2+00	14.0	9.0
<u>11:48</u>	4.0	+1.0		14.2	9.2
	5.0	0.0		14.5	9.5
	8.3	3.3		14.9	9.9
50	12.2	7.2		14.8	9.8
	13.2	8.2	50	14.5	9.5
	13.2	8.2		14.5	9.5
	13.1	8.1		14.8	9.8
	13.3	8.3		14.9	9.9
1+00	14.0	9.0		15.1	10.1
	14.0	9.0	3+00	15.0	10.0
	13.9	8.9			
	13.8	8.8			
	14.2	9.2			
50	14.1	9.1			
	14.3	9.3			
	14.0	9.0			
	14.0	9.0			

Cont'd from Pg. 24) 11-19-56
 N. 71+00; 0+00 = W. 14, 100; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00			(48)	13.3	8.5
(48)	1.9	+2.9	2+00	13.3	8.5
<u>11:56</u>	2.5	+2.3		13.8	9.0
	3.0	+1.8	<u>11:58</u>	14.0	9.2
	3.9	+0.9		14.2	9.4
50	5.2	0.4		14.7	9.9
	9.5	4.7	50	14.9	10.1
	12.0	7.2		14.8	10.0
	12.3	7.5		14.4	9.6
	13.0	8.2		14.5	9.7
1+00	13.2	8.4		15.0	10.2
	13.0	8.2	3+00	14.7	9.9
	13.0				
	13.0				
	13.0	8.2			
50	13.2	8.4			
	13.2	8.4			
	13.1	8.3			
	13.2	8.4			

Cont'd from Pg. 25) (52)
 N. 70+00; 0+00 = W. 14, 030; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	0.2	+4.5	(46)	12.6	8.0
(47)	1.8	+2.9	2+00	12.5	7.9
<u>12:03</u>	2.4	+2.3		12.3	7.7
	3.0	+1.7	<u>12:05</u>	12.3	7.7
	3.3	+1.4		12.3	7.7
50	4.2	+0.5		12.4	7.8
	7.8	3.1	50	12.3	7.7
	10.2	5.5		12.3	7.7
	11.3	6.6		12.4	7.8
	12.0	7.3		12.1	7.5
1+00	12.3	7.6		12.1	7.5
	12.6	8.1	3+00	12.7	8.1
	12.3	7.6		12.9	8.3
	12.2	7.5		13.1	8.5
	12.1	7.4		13.5	8.9
50	12.2	7.5		13.2	8.6
	12.2	7.5	50	13.1	8.5
	12.3	7.6			
	12.5	7.8			

Cont'd from Pp. 26) 11-19-56

N. 69+00; 0+00 = W. 13,930; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00			(4.4)	13.0	8.6
(4.4)	0.2	+4.2	2+00	13.0	8.6
<u>12:10</u>	1.0	+3.4		12.8	8.4
	2.0	+2.4		12.8	8.4
	2.5	+1.9		12.3	7.9
50	3.1	+1.3		12.1	7.7
	4.1	+0.3	50	12.0	7.6
	6.2	1.8		11.9	7.5
	10.0	5.6		11.7	7.3
	11.0	6.6		11.9	7.5
1+00	12.0	7.6		11.9	7.5
	12.5	8.1	3+00	12.0	7.6
	12.7	8.3		12.1	7.7
	12.6	8.2		12.2	7.8
	12.5	8.1		12.3	7.9
50	12.7	8.3		12.7	8.3
	12.7	8.3	50	12.9	8.5
	12.8	8.4			
	13.0	8.6			

Cont'd from Pp. 27)

N. 68+00; 0+00 = W. 13,860; SOUND WEST

(53)

Dist	Sound	Elev	Dist	Sound	Elev
0+00			(4.2)	11.9	7.7
(4.2)	0.0	+4.2	2+00	11.7	7.5
<u>12:00</u>	1.0	+3.2		11.6	7.6
	1.9	+2.3		11.7	7.5
	2.8	+1.4		12.0	7.8
50	3.2	+1.0		12.1	7.9
	7.1	2.9	50	12.1	
	9.1	4.9		12.1	
	10.3	6.1		12.1	7.9
	11.2	7.0		12.2	8.0
1+00	11.8	7.6		12.8	8.6
	12.0	7.8	3+00	12.9	8.7
	12.2	8.0		12.9	8.7
	12.1	7.9		12.8	8.6
	12.0	7.8		12.5	8.3
50	11.9	7.7		12.5	8.3
	11.9	7.7	50	12.3	8.1
	11.9	7.7			
	11.6	7.4			

11-19-56

N. 55+00; 0+00 = W. 13,700

N. 54+00; 0+00 = W. 13,700

(54)

Sta	+	H.I	-	Elev	(Pg. 14)	Sta	+	H.I	-	Elev
TBM.	6.90	14.40		7.50	N. 5500 W 13700	0		14.40	7.7	6.7
0			8.0	6.4		W 100			6.9	7.5
W 100			7.3	7.1		W 200			6.2	8.2
W 200			6.7	7.7		W 300			5.9	8.5
W 300			7.6	6.8		W 400			7.6	6.8
W 400			7.7	6.7		W 500			8.0	6.4
W 500			7.5	6.9		W 565			8.1	6.3
W 590			7.9	6.5		W 570			5.1	9.3
W 600			5.2	9.2		W 595			3.92	10.48
W 621			3.90	10.50	E. Edge Rd. 5500	W 618			4.10	10.30
W 644			3.95	10.45	W.E. Rd.	W 638			5.1	9.3
W 663			5.2	9.2		W 638 ^E			5.6	8.8
W 664			5.8	8.6		W 642			4.90	9.50
W 667 ^E			5.10	9.30	E. Edge Part - horn					

E. Edge Rd
W. Edge Rd.

E. Edge
Midway Dr.

N. 53+00; 0+00 = W. 13,700 11-19-56

Sta	+ H.I	-	Elev
0	14.40	7.4	7.0
W 100		7.1	7.3
W 200		6.2	8.2
W 300		6.4	8.0
W 400		6.3	8.1
W 500		8.3	6.1
W 535		7.5	6.9
W 541		5.8	8.6
W 570		4.30	10.10
W 594		4.30	10.10
W 600		4.7	9.7
W 612		4.8	9.6
W 612 ⁵		5.5	8.9
W 616		4.70	9.70

N. 52+00; 0+00 = W. 13,700 (53)

Sta	+ H.I	-	Elev
0	14.40	6.9	7.5
W 100		6.4	8.0
W 200		6.3	8.1
W 300		7.0	7.4
W 400		7.0	7.4
W 500		7.1	7.3
W 518		6.5	7.9
W 541		4.64	9.76
W 563		4.17	10.23
W 584		4.6	9.8
W 584 ⁵		5.4	9.0
W 587		4.65	9.75

E. E. part
W. E. part
E. Edge
Midway

N. 51+00; 0+00 = W. 13,700; 11-19-56

Sta	+	H.1	-	Elev	
0		14.40	6.8	7.6	
W 100			6.2	8.2	
W 200			5.9	8.5	
W 300			7.0	7.4	
W 400			7.5	6.9	
W 472			8.2	6.2	
W 508 ⁵			4.40	10.00	E.E Part
W 531			3.95	10.45	W.E Part
W 536 ⁵			3.90	10.50	
W 557 ⁵			4.50	9.90	E.E Part Midway

N. 50+00; 0+00 = W. 13,700

Sta	+	H.1	-	Elev	
0		14.40	6.5	7.9	
W 100			6.3	8.1	
W 200			5.6	8.8	
W 300			4.7	9.7	
W 400			7.4	7.0	
W 446			6.7	7.7	
W 472			4.10	10.00	E. Edge Part
W 493			3.65	10.75	
W 514			5.0	9.4	
W 519			4.1	10.3	
W 519 ⁵			3.5	10.9	
W 520			4.15	10.25	E. Edge Part Midway

(56)

W/141+00; 0+00=N. 5,000 11-17-56

Sta	+	H.1	-	Elev	
0		14.40	7.4	7.0	
570			7.6	6.8	
5100			5.7	8.7	
5149			4.35	9.05	E. Edge Part
5191			3.50	10.90	W. E. Part
5200			3.5	10.9	
5240			2.7	11.7	
5242			2.17	12.23	TOP berm
5244			2.65	11.75	E. Gut Midway

W.140+00; 0+00=N. 5,000

0			4.7	9.7	
5100			5.0	9.4	
5200			5.9	8.5	
5266			6.4	8.0	
5286			4.2	10.2	
5304			4.05	10.35	E. Edge Part
5341			3.25	11.15	W. E. Part
5386			2.23	12.15	TOP berm
5388			2.80	11.60	E. Gut Midway

W.139+00; 0+00=N. 5,000

Sta	+	H.1	-	Elev	
0		14.40	5.6	8.8	
5100			5.2	9.2	
5200			6.7	7.7	
5300			6.9	7.5	
5315			7.3	7.1	
5330			5.7	8.7	
5390			5.7	8.7	
5400			4.4	10.0	
5420			3.70	10.7	
5439			3.60	10.80	E. Edge Part
5470			3.50	10.90	W. E. Part
5500			4.0	10.4	
5514			2.20	12.20	TOP berm
5515			2.70	11.70	E. Gut Midway

W. 138+00; 0+00 = N. 5,000 11-19-56

Sta	+ H. 1	- Elev
0	14.40	6.2 8.2
5 100		5.8 8.6
5 200		5.9 8.5
5 300		5.2 9.2
5 318		5.3 9.1
5 327		7.7 6.7
5 400		7.4 7.0
5 500		5.2 9.2
5 520		5.4 9.0
5 526		4.4 10.0
5 552		3.70 10.70 <small>EE Pout</small>
5 582		3.75 10.65 <small>W.E Pout</small>
5 600		4.2 10.2
5 624		1.80 13.60 <small>Top berm E. Got</small>
5 625		2.40 12.00 <small>Midway</small>
BM.	1.78	12.62-12.61 <small>"1/2"le"</small>

(These Sec's Cont'd MB 95, P 924)

SLY END SEC'S

(Cont'd from P 927) 11-20-56 N

N. 67+00; 0+00 = W. 13,820. SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	1.1	+5.8	(6.9)	14.5	7.6
(6.9)	3.3	+3.6	2+00	14.3	7.4
9:24	4.6	+2.3		14.3	7.4
	5.3	+1.6		14.2	7.3
	6.8	+0.1		14.5	7.6
50	11.1	4.2		14.9	8.0
	13.2	6.3	50	15.1	8.2
	14.2	7.3		15.2	8.3
	14.7	7.8		15.1	8.2
	14.6	7.7		15.1	8.2
1+00	14.7	7.8		15.0	8.1
	14.8	7.9	3+00	15.0	8.1
	14.8	7.9		15.1	8.2
	14.8	7.9		14.5	7.6
	14.9	8.0		14.5	7.6
50	14.9		9:33	14.2	7.3
	14.9		50	14.4	7.5
	14.9			14.9	8.0
	14.9	8.0		14.9	8.0

N. 67+00; SOUND WEST 11-20-56
 Dist Sound Elev Dist Sound Elev

(6.9)	14.9	8.0			
	14.9	8.0			
4+00	15.1	8.2	6+00		
	15.0	8.1			
	15.0	8.1			
<u>9:35</u>	14.8	7.9			
	14.3	7.4			
50	13.5	6.6	50		
	9.8	0.9			
	6.8	+0.1			
	4.5	+2.4			
	3.1	+3.8			
5+00	1.8	+5.1	7+00		
	1.0	+5.9			
	0.0	+6.9			
(Set Lath W/4.350)					
50					

(Contd from pg 28) 11-20-56 (59)
 N. 66+00; 0+00 = W 13,700; SOUND WEST

Dist	Sound	Elev	Dist	Sound	Elev
0+00	2.0	+4.9	(6.9)	14.0	7.1
(6.9)	1.9	+5.0	2+00	14.0	
<u>9:53</u>	1.9	+5.0		14.0	
	2.2	+4.7		14.0	
	3.1	+3.8		14.0	7.1
50	3.4	+3.5		13.9	7.0
	3.4	+3.5	50	13.8	6.9
	3.5	+3.4		13.7	6.8
	2.9	+4.0		13.6	6.7
	3.3	+3.6		13.9	7.0
1+00	4.5	+2.4		14.0	7.1
	5.7	+1.2	3+00	14.1	7.2
	7.0	0.1		14.2	7.3
<u>9:55</u>	10.8	3.9		14.3	7.4
	12.5	5.6		14.9	8.0
50	13.0	6.1		15.8	8.9
	13.5	6.6	50	15.2	8.3
	13.9	7.0		15.2	8.3
	13.8	6.9		15.0	8.1

N. 66+00; SOUND WEST 11-20-56
 DIST SOUND Elev DIST SOUND Elev

(6.9) 15.0 8.1

15.0 8.1

4+00 15.0 8.1

14.9 8.0

10+00 14.9 8.0

14.9 8.0

14.6 7.7

50 14.2 7.3

14.2 7.3

14.0 7.1

13.8 6.9

13.0 6.1

5+00 11.5 4.6

7.2 0.3

4.3 +2.6

2.8 +4.1

(Set Lath)
 W14250
 50 1.3 +5.6

(Contd from Pg. 28) 11-20-56 (60)
 N. 65+00; 0+00 = W. 13, 700; SOUND WEST

DIST SOUND Elev DIST SOUND Elev

0+00 3.3 +3.5 (6.8) 14.1 7.3

(6.8) 3.6 +3.2 2+00 14.1 7.3

1017 3.6 +3.2 14.0 7.2

3.4 +3.4 13.8 7.0

3.5 +3.3 13.9 7.1

50 3.8 +3.0 1020 13.8 7.0

3.5 +3.3 50 13.7 6.9

4.0 +2.8 13.9 7.1

4.9 +1.9 13.9 7.1

5.8 +1.0 14.0 7.2

1+00 7.5 0.7 14.3 7.5

11.6 4.8 3+00 14.8 8.0

13.6 6.8 15.1 8.3

14.1 7.3 15.1 8.3

14.8 8.0 14.9 8.1

50 14.9 8.1 14.3 7.5

14.9 8.1 50 14.2 7.4

14.7 7.9 14.2 7.4

14.2 7.4 14.3 7.5

N. 65+00; SOUND WEST 11-20-56

Dist Sound Elev

Dist	Sound	Elev
(6.8)	14.2	7.4
<u>10.22</u>	14.2	}
4+00	14.2	
	14.2	7.4
	14.0	7.2
	14.0	7.2
	13.7	6.9
50	13.1	6.3
	12.1	5.3
	8.9	2.1
	5.0	+1.8
	3.1	+3.7
5+00	1.2	+5.6

(Set Lath
W14,210)

(cont'd from Pg 30)

N. 64+00; 0+00 = W 13,700; SOUND WEST

Dist Sound Elev Dist Sound Elev

Dist	Sound	Elev	Dist	Sound	Elev
0+00	4.2	+2.4	(66)	14.0	7.4
(66)	4.2	+2.4	2+00	14.0	7.4
<u>10.33</u>	4.0	+2.6	2+00	14.0	7.4
<u> </u>	5.0	+1.6		14.1	7.5
	6.8	0.2	<u>10.37</u>	14.1	7.5
	50	6.0	<u> </u>	14.5	7.9
	5.0	+1.6	50	14.7	8.1
	5.0	+1.6		14.9	8.3
	5.9	+0.7		15.0	8.4
	7.0	0.4		15.1	8.5
1+00	7.0	0.4		15.8	9.2
	7.0	0.4	3+00	15.9	9.3
	7.3	0.7		15.8	9.2
	9.2	2.6		15.5	8.9
	12.0	5.4		15.3	8.7
50	13.2	6.6		15.2	8.6
50	13.8	7.2	50	15.0	8.4
	14.0	7.4		15.0	8.4
	14.0	7.4		15.1	8.5

N. 64+00; SOUND WEST 11-20-56

Dist Sound Elev

(66) 15.0 8.4

15.0 8.4

4+00 14.9 8.3

14.5 7.9

10.39 14.5 7.9

14.2 7.6

13.8 7.2

50 12.5 5.9

9.0 2.4

5.0 +1.6

3.2 +3.4

(Set Lath) 1.8 +4.8

W/4.200

5+00

Contd from Pg. P9.30)

N. 63+00; 0+00 = W. 13,760; SOUND WEST (62)

Dist Sound Elev Dist Sound Elev

0+00 1.0 +5.5 (6.4) 14.9 8.5

(6.5) 3.2 +3.3 2+00 14.9 8.5

10.52 4.2 +2.3 14.9 8.5

5.0 +1.5 15.0 8.6

7.0 0.5 15.1 8.7

50 12.0 5.5 10.55 15.5 9.1

13.3 6.8 50 15.9 9.5

14.0 7.5 15.5 9.1

14.2 7.7 15.3 8.9

14.5 8.0 15.2 8.8

1+00 14.8 8.3 15.2

14.9 8.4 3+00 15.2

15.1 8.6 15.2 8.8

14.8 8.3 15.0 8.6

14.9 8.4 14.9 8.5

50 14.9 14.5 8.1

14.9 50 14.2 7.8

14.9 14.1 7.7

14.9 8.4 14.0 7.6

N. 63+00; SOUND WEST 11-20-56

Dist Sound Elev

(6.4) 14.0 7.6
10.57 13.9 7.5
 4+00 13.0 6.6
 10.0 3.6
 7.5 1.1
 5.1 +1.3
 3.8 +2.6
 50 2.5 +3.9
 1.1 +5.3

Set lath
 W14230

14.0
 10.0
 5+00
 13.760
 470
 14,230

(Contd from 1931)

N 62+00; 0+00 = W. 13,780; SOUND WEST

Dist Sound Elev Dist Sound Elev

0+00 1.0 +5.3 (6.2) 14.0 7.8
 (6.3) 3.5 +2.8 2+00 14.2 8.0
 11.05 4.1 +2.2 14.5 8.3
 5.2 +1.1 14.7 8.5
 6.6 0.3 15.0 8.8
 50 11.0 4.7 15.2 9.0
 13.2 6.9 50 15.6 9.4
 13.8 7.5 16.0 9.8
 13.8 7.5 16.0 9.8
 14.0 7.7 15.9 9.7
 14.0 14.0 11.10 15.6 9.4
 14.0 3+00 15.4 9.2
 14.0 15.1 8.9
 14.0 15.0 8.8
 14.0 7.7 15.1 8.9
 50 14.1 7.8 14.9 8.7
 14.0 7.7 50 14.8 8.6
 14.0 7.7 14.5 8.3
 14.0 7.7 14.2 8.0

N. 62+00; SOUND WEST 11-20-56

Dist Sound Elev Dist Sound Elev

(6.2) 14.0 7.8

14.0 7.8

4+00 13.9 7.7

13.2 7.0

11.12 13.0 6.8

11.5 5.3

8.1 1.9

50 5.0 +1.2

3.0 +3.2

2.0 +4.2

(set. lath)
W/4,260

5+00

(Cont'd from pg. 32)

N. 61+00; 0+00 = W. 13810; SOUND WEST

Dist Sound Elev Dist Sound Elev

0+00 0.8 +5.1 (58) 14.6 8.8

(59) 3.0 +2.9 2+00 14.3 8.5

11.27 4.0 +1.9 14.5 8.7

5.1 +0.8 14.5 8.7

11.30 9.1 3.2 11.33 14.7 8.9

50 12.0 6.1 14.8 9.0

13.5 7.6 50 14.9 9.1

14.0 8.1 15.0 9.2

14.2 8.3 15.0

14.5 8.6 15.0

1+00 14.5 8.6 15.0 9.2

14.9 9.0 3+00 14.8 9.0

14.7 8.8 14.5 8.7

14.8 8.9 14.5 8.7

14.8 8.9 14.5 8.7

50 14.7 8.8 14.3 8.5

14.7 8.8 50 14.3

14.8 8.9 14.3

14.9 9.0 14.3 8.5

N. 61+00; SOUND WEST 11-20-56

Dist Sound Elev Dist Sound Elev

(5.8) 14.2 8.4

14.0 8.2

4+00 13.8 8.0

13.2 7.4

11.35 11.5 5.7

10.2 4.4

8.2 2.8

50 6.0 0.2

4.0 +1.8

2.9 +2.9

1.5 +4.3

0.0 +5.8

5+00 W14,310 (set latk)

13810

5

(Contd from P933)

N. 60+00; 0+00 = W. 13,850; SOUND WEST

(65)

Dist Sound Elev Dist Sound Elev

0+00 0.7 +4.9 (5.6) 15.1 9.5

(5.6) 3.3 +2.3 2+00 15.2 9.6

11.43 4.7 +0.9 11.45 15.1 9.5

5.9 0.3 15.0 9.4

9.0 3.4 15.0 9.4

50 9.9 4.3 15.1 9.5

13.0 7.4 50 15.0 9.4

13.6 8.0 14.9 9.3

14.0 8.4 14.7 9.1

14.0 8.4 14.3 8.7

1+00 14.1 8.5 14.2 8.6

14.2 8.6 3+00 14.2 8.6

14.0 8.4 14.2 8.6

14.1 8.5 14.1 8.5

14.5 8.9 14.1 8.5

50 14.8 9.2 14.1 8.5

15.0 9.4 50 14.0 8.4

15.0 9.4 14.0 8.4

15.1 9.5 14.0 8.4

N. 60+00: SOUND WEST 11-20-56

Dist	Sound	Elev	Dist	Sound	Elev
(5.5)	13.8	8.3			
	13.4	7.9			
4+00	13.3	7.8			
<u>11.48</u>	13.0	7.5			
<u>11.8</u>	6.3				
	10.0	4.5			
	7.5	2.0			
50	5.6	0.1			
	4.1	+1.4			
	2.3	+3.2			
	1.8	+3.7			

Set Lath
W/4:340

5+00

13850
490
14,340

(Contd From P 9 34)

N. 59+00; 0+00=W, 13,870; SOUND WEST

(60)

Dist	Sound	Elev	Dist	Sound	Elev
0+00	2.3	+3.1	(5.3)	15.1	9.7
(5.4)	3.1	+2.3	2+00	15.2	9.8
<u>11.57</u>	3.1	+2.3		15.2	9.8
<u>4.0</u>	+1.4			15.0	9.6
50	+0.4			15.1	9.7
50	7.1	1.7	<u>1200</u>	15.0	9.6
	9.5	4.1	50	15.0	9.6
	12.3	6.9		15.0	9.6
	14.0	8.6		15.0	9.6
	14.8	9.4		14.8	9.4
1+00	14.8	9.4		14.5	9.1
	14.9	9.5	3+00	14.5	9.1
	14.8	9.4		14.3	8.9
	14.9	9.5		14.2	8.8
	14.9	9.5		14.2	8.8
50	15.0	9.6		14.1	8.7
	15.0	9.6	50	14.0	8.6
	15.0	9.6		14.0	8.6
	15.1	9.7		13.9	8.5

N. 59+00; SOUND WEST 11-20-56

Dist Sound Elev

(5.3) 13.5 8.2

1202 13.2 7.9

4+00 13.0 7.7

12.9 7.6

12.2 6.9

11.3 6.0

8.7 3.4

50 7.0 1.7

5.0 +0.3

3.1 +2.2

1.2 +4.1

Set Lath
W14360

5+00

13870

490

14,360

(Cont'd from pp 34)

N. 58+00; 0+00 = W. 13,920; SOUND WEST (67)

Dist Sound Elev Dist Sound Elev

0+00 0 (5.0) 15.5 10.5

(3.1) 0.0 +5.1 2+00 15.7 10.7

1212 2.3 +2.8 1215 16.0 11.0

3.3 +1.8 16.0 11.0

4.5 +0.6 16.2 11.2

50 7.2 2.1 16.1 11.1

11.8 6.7 50 16.0 11.0

12.8 7.7 15.9 10.9

13.0 7.9 15.8 10.8

13.3 8.2 15.7 10.7

1+00 13.5 8.4 15.6 10.6

13.9 8.8 3+00 15.6 10.6

14.0 8.9 15.6 10.6

14.2 9.1 15.5 10.5

14.5 9.4 15.0 10.0

50 14.9 9.8 14.9 9.9

15.0 9.9 50 14.9 9.9

15.2 10.1 14.9 9.9

15.4 10.3 14.7 9.7

N. 58+00; SOUND WEST 11-20-56

Dist Sound Elev

(4.9) 14.3 9.4

12:20 14.4 9.5

4+00 14.4 9.5

14.0 9.1

12.3 7.4

8.9 4.0

7.3 2.4

50 6.1 1.2

3.2 +1.7

(Set Lath)
W/4390 0.0 +4.9

5+00

13920
470

W 14,390

Cont'd from Pg. 36

N. 57+00; 0+00 = W/13,960; SOUND WEST

(68)

Dist Sound Elev Dist Sound Elev

0+00 (4.7) 10.0 5.3

(4.8) 0.2 +4.6 2+00 8.8 4.1

12:27 2.0 +2.8 12:30 6.9 2.2

3.0 +1.8 6.1 1.4

4.8 0.0 5.8 1.1

50 7.0 2.2 4.9 0.2

11.2 6.4 50 4.0 +0.7

12.8 8.0 3.3 +1.4

13.0 8.2 3.0 +1.7

13.1 8.3 3.0 +1.7

1+00 13.3 8.5 1.0 +3.7

13.6 8.8 3+00 (Set Lath)
W/4260

13.8 9.0 (Cont'd Pg. 71)

13.1 8.3

12.5 7.7

50 12.0 7.2

11.5 6.7 50

10.4 5.6

10.0 5.2

(Contd) from P939) 11-20-56
W. 140+50; 0+00 = N. 5600; SOUND NORTH

Dist Sound Elev

0+00

(4.4)

12:42

0.9 +3.5

2.0 +2.4

50 3.2 +1.2

4.7 0.3

7.8 3.4

10.6 6.2

12.9 8.5

1+00 12.9 8.5

12.9 8.5

13.0 8.6

(69)

W. 141+00; 0+00 = N. 5,660; SOUND NORTH

Dist Sound Elev

0+00 3.3 +1.0

(43) 5.0 0.7

12:50 8.2 3.9

10.8 6.5

12.0 7.7

50 13.1 8.8

13.8 9.5

14.0 9.7

14.0 9.7

14.1 9.8

1+00 14.0 9.7

(Contd from P939) 11-20-56
W. 142+00; 0+00 = N. 56 80; SOUND NORTH

Dist Sound Elev

0+00 1.0 +3.1

(4.1) 2.9 +1.2

12.53 4.0 +0.1

7.0 2.9

8.5 4.4

50 9.9 5.8

11.0 6.9

12.2 8.1

12.9 8.8

13.2 9.1

1+00 13.9 9.8

14.1 10.0

14.3 10.2

14.2 10.1

14.2 10.1

50 14.0 9.9

(Contd from P939) (70)
W. 143+00; 0+00 = W. 5.710; SOUND NORTH

Dist Sound/Elev

0+00

(4.0) 1.0 +3.0

12.58 3.5 +0.5

5.5 1.5

7.4 3.4

50 9.1 5.1

10.0 6.0

11.1 7.1

12.5 8.5

13.0 9.0

1+00 13.1 9.1

13.2 9.2

13.1 9.1

13.0 9.0

N. 57+00; 0+00 = W 14,260 (Cont'd from P 468)

Sta + H.I. - Elev

T.B.M. 3.19 15.80 12.61 "15/e"

0 10.8 5.0

W 82 5.5 10.3

W 100 5.2 10.6

W 114 4.83 10.97 E. Edge Point

W 136 4.78 11.02

W 156 6.58 9.22 Top berm

W 156^S 7.22 8.58 Gut

W 160 6.65 9.15 E.P.

N. 58+00; 0+00 = W 14,390

0 10.3 5.5

W 6 5.7 10.1

W 12 4.95 10.85 E. Edge Point

W 34 4.95 10.85 W. Edge Point

W 54 6.63 8.15 Top berm

W 54^S 7.45 8.35

W 58 6.70 9.10 E.P. Midway

N. 59+00; 0+00 = W 14,360

Sta + H.I. - Elev

0 15.80 10.1 5.7

W 31 5.6 10.2

W 52 5.30 10.50 E.E Point

W 78 5.15 10.65 W.E Point

W 97^S 6.65 9.15 Top berm

W 98 7.38 8.42 Gut

W 101 6.65 9.15 E.P.

N. 60+00; 0+00 = W 14,340

0 9.4 6.4

W 75 5.6 10.2

W 100 5.3 10.5

W 106^S 5.60 10.20 E.E Point

W 129 5.60 10.20 W.E Point

W 153^S 6.58 9.22 Top berm

W 154 7.25 8.55 Gut

W 157^S 6.55 9.25 E.P. Midway

N. 61+00; 0+00 = W 14, 310 11-20-56

Sta	+	H.1	-	Elev
0		15.80	8.2	7.6
W 23			5.7	10.1
W 100			5.9	9.9
W 159			5.90	9.90
W 182			5.90	9.90
W 200			6.4	9.4
W 207			6.52	9.28
W 207 ⁵			7.12	8.68
W 211			6.40	9.40

EC
Pout
W.E
Pout

TOP
berm
Gut

N 62+00; 0+00 = W 14, 260

0		9.6	6.2	
W 30		5.7	10.1	
W 100		5.3	10.5	
W 200		5.2	10.6	
W 236		5.80	10.00	
TP.		3.88	11.92	

FFthe
Pout
San. Fill
Ed

2.08 16.00

N. 63+00; 0+00 = W 14, 230

Sta	+	H.1	-	Elev
0		16.00	8.6	7.4
W 24			5.8	11.0
W 100			5.1	11.7
W 200			5.2	11.6
0			9.0	7.0
W 19			6.2	9.8
W 100			5.4	10.6
W 200			5.2	10.8

N. 64+00; 0+00 = W 14, 200

N. 65+00; 0+00 = W 14, 210

0			8.5	7.5
W 23			6.3	9.7
W 100			5.8	10.2
W 200			5.5	10.5

N. 66+00; 0+00 = W 14, 250

0			8.5	7.5
W 18			7.1	8.9
W 100			6.4	9.6
W 200			6.3	9.7

N 67+00; 0+00 = W 14,350 11-20-56

Sta + H.1 - Elev

0		16.00	8.6	7.4
W 12			6.6	9.4
W 100			6.1	9.9
W 200			5.8	10.2
TP.	4.08	16.00	4.08	11.92
B.M.			3.39	12.61

151E
12.61

12 - 10 - 57

SOUNDINGS WLY SIDE OF VENTURA BLVD

BRIDGE 0+00 = SLY END Bridge (see MB 88)

11 MB III 66

	Dist	Sound	Elev	Dist	Sound	Elev
	0+00			2.40	16.5	13.5
	(3.1)			14.7	11.7	
	2.37			2+00	15.7	12.7
		0.2	+2.9		15.1	12.1
		1.6	+1.5		15.0	12.0
	50	2.3	+0.8		14.7	11.7
		3.3	0.2		14.0	11.0
		6.7	3.6	50	12.3	9.3
		9.4	6.3		11.7	8.7
		11.8	8.7		11.5	8.5
	1+00	14.2	11.1		11.5	8.5
		16.0	12.9		12.0	9.0
		16.3	13.2	3+00	11.7	8.7
		15.5	12.4		11.0	8.0
		14.3	11.2		10.4	7.4
	50	14.5	11.4		12.2	9.2
		16.0	12.9		9.5	6.5
		16.2	13.1	50	10.5	7.5

SOUNDING W. SIDE VENTURA BRIDGE

Dist	Sound	Elev	Dist	Sound	Elev
(29)	9.4	6.5	(28)	11.8	9.0
	10.0	7.1		13.0	10.2
<u>2:45</u>	9.4	6.5		11.7	8.9
	11.3	8.4	<u>2:50</u>	12.0	9.2
4+00	12.8	9.9	6+00	13.3	10.5
	12.0	9.1		14.1	11.3
	11.3	8.4		19.4	16.6
	11.5	8.6		20.8	18.0
	10.6	7.7		24.4	21.6
50	11.0	8.1	50	24.9	22.1
	9.2	6.3		26.1	23.3
	11.1	8.2		26.0	23.2
	10.0	7.1		25.3	22.5
	10.3	7.4		25.0	22.2
5+00	9.8	6.9	7+00	24.8	22.0
	10.8	7.9		25.1	22.3
	10.3	7.4		25.0	22.2
	10.3	7.4		25.2	22.4
	10.1	7.2		24.9	22.1
50	11.2	8.3	50	25.3	22.5

W. SIDE VENTURA BRIDGE 12-10-57 (74)

Dist	Sound	Elev	Dist	Sound	Elev
(26)	24.7	22.1	(26)	10.7	8.1
	24.7	22.1		10.0	7.4
<u>2:55</u>	24.5	21.9		9.6	7.0
	24.0	21.4		7.1	4.5
8+00	23.4	20.8	10+00	3.4	0.8
	23.0	20.4			
	22.9	20.3			
	22.6	20.0			
	21.7	19.1			
50	21.2	18.6			
	20.5	17.9			
	19.1	16.5			
	19.1	16.5			
	18.6	16.0			
9+00	16.7	14.1			
	16.0	13.4			
	15.2	12.6			
	13.9	11.3			
	13.1	10.5			
50	13.3	10.7			

12-10-57

(75)

SOUNDINGS ELY SIDE VENTURA BRIDGE

For 0+00 Sta. See MB ⁶⁶88 = S. End Bridge

Dist	Sound	Elev	Dist	Sound	Elev
0+00			(21) 9+00	17.2	15.1
(23) 50	5.9	3.6	^{3:25} 50	8.7	6.6
^{3:10} 1+00	13.8	11.5	10+00	1.4	+0.9
50	12.0	9.7			
(22) 2+00	11.3	9.2			
^{3:18} 50	9.4	7.1			
3+00	9.0	6.7			
50	7.8	5.5			
4+00	7.1	4.8			
50	6.8	4.5			
5+00	7.0	4.7			
50	9.4	7.1			
6+00	13.3	11.0			
50	26.0	23.7			
7+00	24.4	22.1			
50	24.2	21.9			
8+00	23.8	21.5			
50	21.9	19.6			

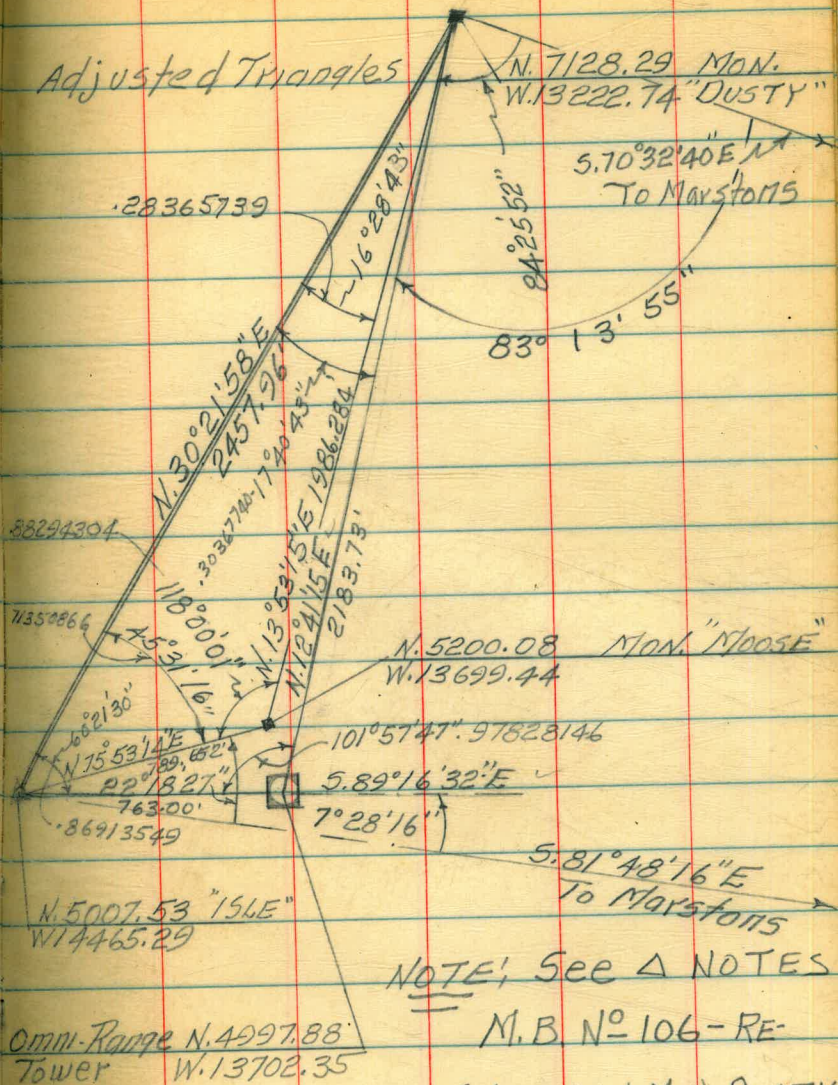
2-18-60

TRIANGULATION OF NEW LOCATION FOR OMNI

RANGE TOWER & MON. MOOSE W.O. 64501

Sta.	object	Angles
	Marston's Tur.	1. $7^{\circ}28'15''$
151e	Lt. 7	2. $14^{\circ}56'35''$
		6. $44^{\circ}49'36''$
	Omni-Range	AV. $7^{\circ}28'16''$
	Marston's Tur.	1. $22^{\circ}18'40''$
151e	Lt. 7	2. $44^{\circ}37'25''$
		6. $133^{\circ}50'42''$
	"Mon. Moose"	AV. $22^{\circ}18'27''$
	Marston's	1. $83^{\circ}14'10''$
Dusty	R 7	2. $166^{\circ}28'00''$
		6. $499^{\circ}23'30''$
	Omni Range	AV. $83^{\circ}13'55''$
	Marston's	1. $84^{\circ}25'55''$
Dusty	R 7	2. $168^{\circ}51'35''$
		6. $506^{\circ}35'12''$
	Moose	AV. $84^{\circ}25'52''$
	151e	1. $118^{\circ}00'15''$
Moose	R 7	2. $236^{\circ}00'15''$
		6. $708^{\circ}00'24''$
	Dusty	AV. $118^{\circ}00'04''$

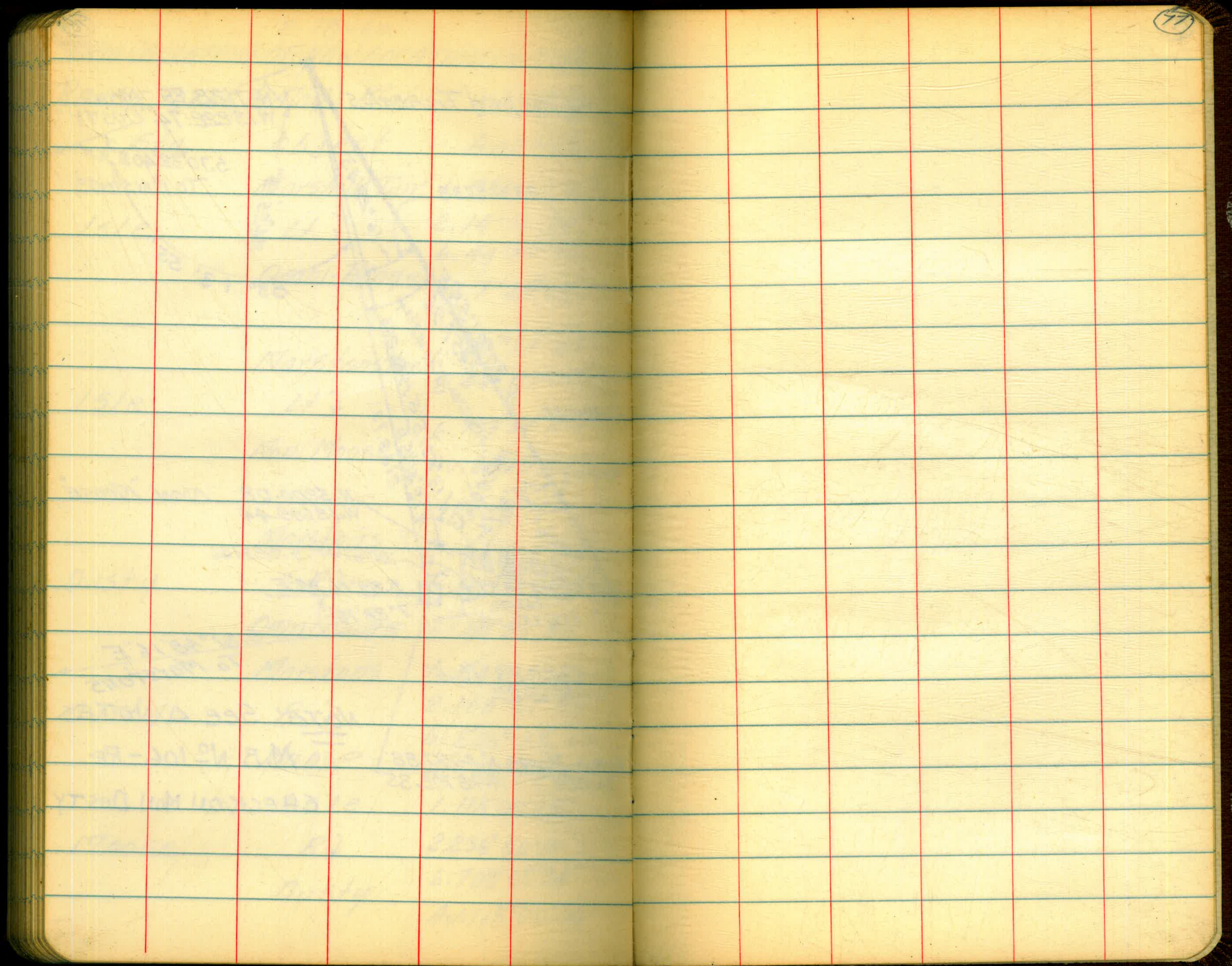
Adjusted Triangles



NOTE: See Δ NOTES

M.B. N°-106-RE

CHECK ON Mon DUSTY



The image shows an open notebook with two facing pages. Both pages are cream-colored and feature a grid of light blue horizontal lines and vertical red margin lines. The notebook is bound in the center, and the pages are otherwise blank. In the top right corner of the right page, the number '76' is handwritten in blue ink and enclosed in a small circle. The notebook's dark cover is visible at the edges.

N 58 W 14390
N 59 W 14360
N 60 W 14340
N 61 W 14310
N 62 W 14260
N 63 W 14230
N 64 W 14200
N 65 W 14210
N 66 W 14250
N 67 W 14350

$\frac{C}{a}$

$\frac{3}{2}$

$\frac{C}{A+B}$

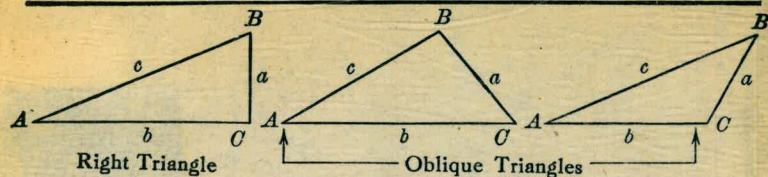
A+B)

ed by the
=319.4ft.
s 5° 10'=
ft.
nus slope
With the
he follow-
959 = .0041.

slope dist-
rise=14 ft.,
302.28 ft.

DE IN U. S. A.

TRIGONOMETRIC FORMULÆ



Right Triangle

Oblique Triangles

Solution of Right Triangles

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

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

Solution of Oblique Triangles

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

REDUCTION TO HORIZONTAL



Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = $5^\circ 10'$. From Table, Page IX. $\cos 5^\circ 10' = .9959$. Horizontal distance = $319.4 \times .9959 = 318.09$ ft.
Horizontal distance also = Slope distance minus slope distance times (1 - cosine of vertical angle) With the same figures as in the preceding example, the following result is obtained. $\cos 5^\circ 10' = .9959$. $1 - .9959 = .0041$. $319.4 \times .0041 = 1.31$. $319.4 - 1.31 = 318.09$ ft.
When the rise is known, the horizontal distance is approximately: - the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft. slope distance = 302.6 ft. Horizontal distance = $302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$ ft.