February 28, 1974
March 5, 1974
March 7, 1974

TO: Mr. C. H. Kaman

FROM: Materials & Process Engineering - A. L. Belbruno

SUBJECT: Top Deflection History - Guitar #47

Top #I 37, k - .77

| | Date | Deflection (inches/20 lbs) Strings Loose | Strings Tight | |
|---|---|---|---|---|
| 47-0 | 2-27-74 | .262 | | Top bonded to bowl (1/4" shelf) |
| 47-0 | 2-28-74 | .175 | | Bridge bonded to top. No bracing. |
| 47-0 | 3-05-74 | .184 | | Inside surface of top sanded down. |
| 47-1 | 3-07-74 | .091 | .089 | |

ALB/tm

cc: L. Pickett

A. L. Belbruno

A. L. Belbruno

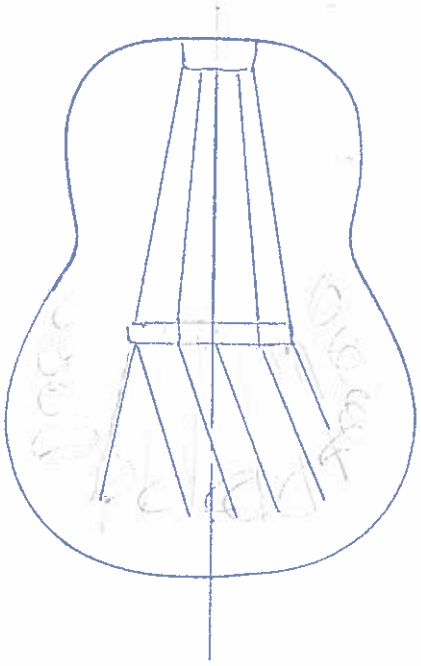
#47 flat untreated spruce, clef hole = 11.6□''

tested 12/05/74 CMcD— patch on .....

| RL | SN | K |
|---|---|---|
| .104/.097 | .077/.064 | .076 tight |

FF

47-1



3/2/74

REDUCED SHELF

TOP GROUND TO 095 - 105
I - 37 .093 - .128 ORIG.
K = .77

BEAM 1/2" x 1/8" x 6 1/2"
@ 10 1/2" FROM WALL

ALL FANS 1/8 x 1/4

ANGLE DESIGNED TO ELIMINATE WAVYNESS OF BEFORE
ALSO TO MINIMIZE BUBBLE

THICKNESS DATA BEFORE GRINDING:

.105 @ BOTTOM
.116 @ RT SIDE OF BRIDGE
.120 @ LEFT " " "
.140 AT TOP ON SIDE OF BLOCK

AFTER GRINDING:

.095 - .100 AROUND OUTER BAND AND BOTTOM
.110 - .115 ON EITHER SIDE OF BRIDGE
.120 UP IN FRONT OF THE BRIDGE TO BLOCK
.116 ON SIDES UP FRONT

UNIT NAME # 47-1 R 4-7-74 TEST RECORD № RUN ~~37~~ 47-1

db

+20 +15 +10 + 5 0 - 5 -10 -15 -20 -25 -30 -35 -40

E G A C D E G A C D E G A C D E G A C D E G A C D E G A C D E G A C D E G A C D

Hz 41.2 49.0 55.0 65.4 73.4 82.4 98.0 110.0 130.8 146.8 164.8 196.0 220.0 261.6 293.7 329.6 392.0 440.0 523.3 587.3 659.3 784.0 880.0 1046.5 1174.7 1318.5 1568.0 1760.0 2093.0 2349.3 2637.0 3136.0 3520.0 4186.0 4698.6 5274.0 6271.8 7040.0 8372.0 9397.2

OPERATING TECHNICAN

DATE

OVATION INSTRUMENTS

UNIT NAME 47-1

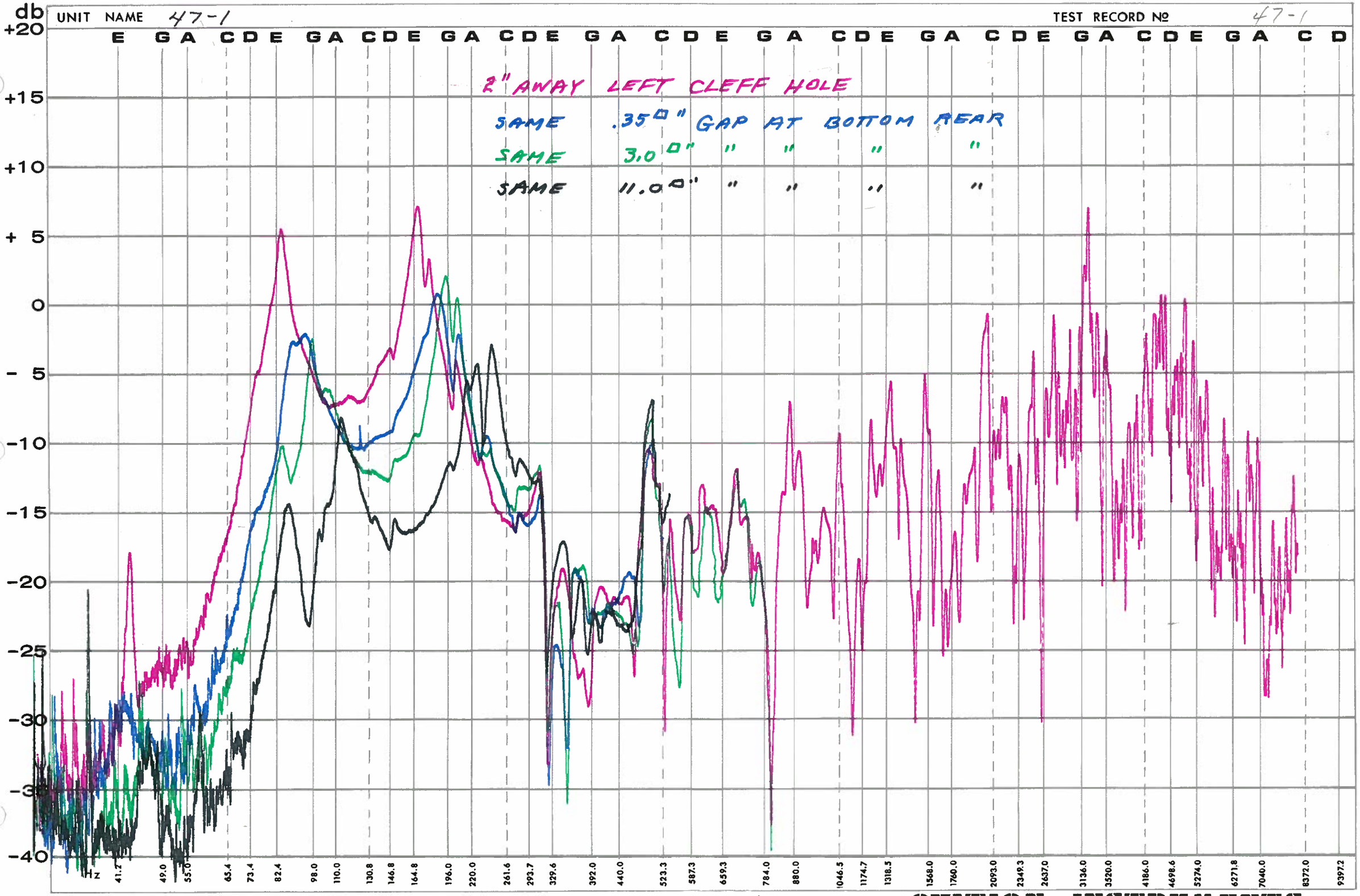
TEST RECORD № 47-1

2" AWAY LEFT CLEFF HOLE

SAME .350" GAP AT BOTTOM REAR

SAME 3.00" " " " "

SAME 11.00" " " " "




OPERATING TECHNICAN

DATE 3-13-74

OVATION INSTRUMENTS

UNIT NAME 47-1

TEST RECORD №

db

+20 +15 +10 + 5 0 - 5 -10 -15 -20 -25 -30 -35 -40

E G A C D E G A C D E G A C D E G A C D E G A C D E G A C D E G A C D E G A C D

2" AWAY LEFT CLEFF HOLE

4" AWAY 2" ABOVE BRIDGE

4" AWAY OVER FRET 20

Hz 41.2 49.0 55.0 65.4 73.4 82.4 98.0 110.0 130.8 146.8 164.8 196.0 220.0 261.6 293.7 329.6 392.0 440.0 523.3 587.3 659.3 784.0 880.0 1046.5 1174.7 1318.5 1568.0 1760.0 2093.0 2349.3 2637.0 3136.0 3520.0 4186.0 4698.6 5274.0 6271.8 7040.0 8372.0 9397.2

OPERATING TECHNICAN

DATE 3-13-74

OVATION INSTRUMENTS

47-1

UNIT NAME 47-1

TEST RECORD №

db

+20 +15 +10 + 5 0 - 5 -10 -15 -20 -25 -30 -35 -40

E G A C D E G A C D E G A C D E G A C D E G A C D E G A C D E G A C D E G A C D

2" AWAY LEFT CLEFF HOLE

2" AWAY IN REAR OPPOSITE TRANSDUCER

BACK IS NO REAL HEAD

Hz 41.2 49.0 55.0 65.4 73.4 82.4 98.0 110.0 130.8 146.8 164.8 196.0 220.0 261.6 293.7 329.6 392.0 440.0 523.3 587.3 659.3 784.0 880.0 1046.5 1174.7 1318.5 1568.0 1760.0 2093.0 2349.3 2637.0 3136.0 3520.0 4186.0 4698.6 5274.0 6271.8 7040.0 8372.0 9397.2

OPERATING TECHNICAN

DATE 3-13-74

OVATION INSTRUMENTS

UNIT NAME #47-1

TEST RECORD № 47-1

db

+20 +15 +10 + 5 0 - 5 -10 -15 -20 -25 -30 -35 -40

E G A C D E G A C D E G A C D E G A C D E G A C D E G A C D E G A C D E G A C D

2" AWAY at LEFT CLEFF HOLE

1" AWAY & 1" TO LEFT OF BASS STRING

3" AWAY SIMULATED POSITION OF LG. HOLE

3" AWAY 2½" BELOW BRIDGE

Hz 41.2 49.0 55.0 65.4 73.4 82.4 98.0 110.0 130.8 146.8 164.8 196.0 220.0 261.6 293.7 329.6 392.0 440.0 523.3 587.3 659.3 784.0 880.0 1046.5 1174.7 1318.5 1568.0 1760.0 2093.0 2349.3 2637.0 3136.0 3520.0 4186.0 4698.6 5274.0 6271.8 7040.0 8372.0 9397.2

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