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**CALTECH -
LIGO PROJECT**

Fax

To: LARRY JONES From: KERRY STIFF

Company: LIGO Pages: including cover 2

FAX: _____ Date: 12-15-97

Re: _____

- Urgent
- For Review
- Please Comment
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• Comments: _____

12-15-97

Larry Jones:

Regarding our telephone conversation of this morning, please find below the resurrected figures for the monument to valve face measurements. The tape measure was laid across the "X" point on the monument. Plumb bobs hanging from the girth weld were used to make the tape measure perpendicular to the tube center line. The distance was then measured from the tape measure to plumb bobs hanging from the front of the valve face. The plumb bobs hanging from the valve face were spaced one tube radius outboard from the center line of the valve (as determined in step #4). The true distance from the monument to the center of the valve face at the "6 o'clock position" is the average of the figures for "road side" and "not road side."

Cecil took today off. I do not have access to the data from X1 corner station and Y1 corner station. It may be that the error we discussed did not occur during these measurements. I will pursue this. In the case of Y2 mid station, the girth weld was directly above the "X" on the monument. Therefore, there is no change in the figures for Y2 mid station.

Location	Road Side	Not Road Side
X1 mid station	$21\frac{1}{64}$	$21\frac{5}{64}$
X2 mid station	$20\frac{29}{32}$	$20\frac{63}{64}$
X2 end station	$20\frac{63}{64}$	$21\frac{3}{64}$
Y1 mid station	$21\frac{15}{64}$	$21\frac{5}{32}$
Y2 mid station	$21\frac{1}{8}$	$21\frac{1}{8}$
Y2 end station	$21\frac{1}{32}$	$21\frac{1}{16}$