

UNITED STATES
DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY
 WATER RESOURCES DIVISION

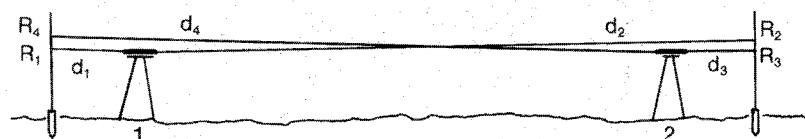
PEG TEST OF ENGINEER'S LEVEL

Date _____ Tested by _____

Level type and ID _____

Last test date _____ c found _____ Fixed scale ☐
 c left _____ Peg test ☐

TEST AS FOUND



$$* c = 100 \times \frac{(R_1 + R_3) - (R_2 + R_4 - **CR)}{(d_2 + d_4) - (d_1 + d_3)}$$

$$c = 100 \times \frac{(\quad + \quad) - (\quad + \quad - \quad)}{(\quad + \quad) - (\quad + \quad)}$$

| | R | d |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

$$c = 100 \times \frac{\quad}{\quad} = \quad \text{As found}$$

ADJUSTMENT (level remains set up at 2 and sighted at R₄)

$$\text{Adjust cross hair to } R_4 - \frac{cd_4}{100} = \frac{\quad}{100} =$$

Cross hair setting = _____

REPEAT OF TEST AFTER ADJUSTMENT

$$c = 100 \times \frac{(\quad + \quad) - (\quad + \quad - \quad)}{(\quad + \quad) - (\quad + \quad)}$$

$$c = 100 \times \frac{\quad}{\quad}$$

c = _____ As left

| | R | d |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

* c is the collimation factor, the inclination of the line of sight in ft/100 ft, minus when up from the instrument, and plus when down.

**CR is twice the curvature and refraction correction for a sight of $\frac{d_2 + d_4}{2}$ ft. Its value, which increases the rod reading, is tabulated at right.

| $(d_2 + d_4) / 2$ | **CR |
|-------------------|------|
| 0 - 110 | 0 |
| 110 - 190 | .001 |
| 190 - 245 | .002 |
| 245 - 290 | .003 |
| 290 - 350 | .004 |