

#3 Phelps Dodge (no logs)

$$10\frac{3}{4}" \text{ csg} = 1.9 \text{ lin ft/cu ft.}$$

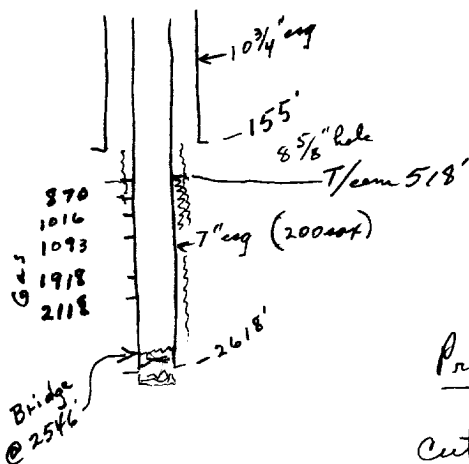
$$7" \text{ csg} = 4.8 \text{ lin ft/cu ft.}$$

$$8\frac{5}{8}" \text{ hole} = 2.46 \text{ lin ft/cu ft. (set 66\% fill)} = 1.63 \text{ lin ft/cu ft}$$

$$\text{Annulus } 8\frac{5}{8}" \text{ hole} - 7" \text{ csg. (use } 8\frac{5}{8}" \text{ csg} - 7" \text{ csg} \times .66) = (14 \times .66) = 9.25 \text{ lin ft/cu ft.}$$

$$10\frac{3}{4}" \text{ csg} - 7" \text{ csg.} = 3.7 \text{ lin ft/cu ft.}$$

$$\text{class A cement} \\ = 1.14 \text{ cu ft/sack}$$



cement on 7" csg: 200 sack

$$1.14 \text{ cf/sack} \times \frac{9.25 \text{ lin ft}}{\text{cf}} = 10.5 \text{ lin ft/sack}$$

$$200 \text{ sack} \times \frac{10.5 \text{ lin ft}}{\text{sack}} = 2100 \text{ lin ft}$$

$$\begin{array}{r} 2618 \\ 2100 \\ \hline 518 \end{array}$$

(no pf)

$$\text{OH} = 1.85 \text{ lin ft/sack}$$

Prop. Plugging

Cut & pull 7" from $\pm 500'$

set plug @ $\pm 500'$ to 445 (25 sack)

set plug @ $\pm 185'$ to 145' (25 sack)

[30' OH = 16 sack; 12' of $10\frac{3}{4}" = 9 \text{ sack}$]

5 sack plug @ $\pm 11'$ to surf.

or Fill $8\frac{5}{8}"$ hole - 7" annulus + 25' of $10\frac{3}{4}" - 7"$ ann

with $\pm (34 \text{ sack} + 16 \text{ sack}) = 40 \text{ sack} (500' \text{ to } 130')$

5 sack plug @ 26' to 0'