

12/9/78 RELEASE

1. Bill King observed the discharge and estimated the duration of the release to have been 5 to 10 seconds.

2. RELIEF VALVE DISCHARGE CALCULATION

3" x 4" Relief valve orifice size = 2.853 in²

$$\text{Area (in}^2\text{)} = \frac{L(\text{gpm}) \sqrt{\text{Sp. Gr.}}}{16.3 \sqrt{P \text{ psi}}}$$

$$L(\text{gpm}) = \frac{\text{Area (in}^2\text{)} \times \sqrt{P \text{ psi}} \times 16.3}{\sqrt{\text{Sp. Gr.}}} = \frac{2.853 \sqrt{150} \times 16.3}{\sqrt{1.34}}$$

$$L = 587 \text{ gpm}$$

or 4596 #/min Liquid Relief capacity

3. TRANSFER SYSTEM CAPACITY IS 400 gpm

$$400 \text{ gpm} = 3132 \text{ #/min}$$

4. Assume relief due to transfer capacity

DTH 000095880

$$\text{KM released} = \frac{3132 \text{ #}}{1 \text{ min}} \times \frac{1 \text{ min}}{60 \text{ sec}} \times 10 \text{ sec} = 522 \text{ #}$$

$$5 \text{ sec release} = 261 \text{ #}$$

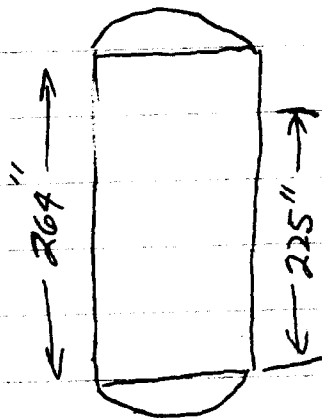
FA- 701

TT = 264" (22')

High level set point on LI^H 701 = 252" from bottom
Target

Set point ~~to~~ to shut off pump = 225" above bottom
Target

LI 701 Dp Cell



264
225

39"