

Subject: Review Comments on BWST and Valve Pit Settlements

Refer to drawing SK-G-518, Fig. ~~1~~, Rev. A provided by Afifi (May 5, 1981)  
Entitled "Settlement Vs. Time", Tank Farm (Sht 4/4) BWST, Job No. 7220

Review Comments (Refers to Valve Pit Settlement)

- The valve pits were settling under own weight BEFORE the tanks were filled in Oct. 1980 (About  $\frac{1}{4}$ " in about a months time)
- After tanks were filled the portions of ~~tank~~ valve pits closest to tanks (Markers TF-19 & TF-22) settled a greater rate than portions of valve pits furthest away from tanks. At Unit 1 there is a differential settlement of nearly  $\frac{3}{4}$ " between portions of valve pit closest to tank and those away from tank. This is probably the basis for surcharging only a portion of the valve pit
- The settlement readings provided up to 3/81 would not permit the conclusion that the valve pits had reached secondary consolidation, additional readings over time are needed

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Refer to drawing SK-G-410, Fig. 2.5-93, Rev. 2 provided May 5, 1981 by Afifi  
Entitled "Settlement Vs. Time, Tank Farm (Sht 1/4), BWST, Job No. 7220

Review Comments (Refers to Settlement of Ring Wall)

- The ring wall for Unit 1 has settled more than Unit 2, both under its own weight and after the tank was filled.
- The max. amount of settlement for Unit 1 ring wall is greater than  $2\frac{1}{2}$ " (Mar-81). About  $\frac{1}{4}$ " occurred when tank was filled