

Welch #12 - Red Lake Unit
 NW/4 NW/4 Sec. 28, T17S. R28E.

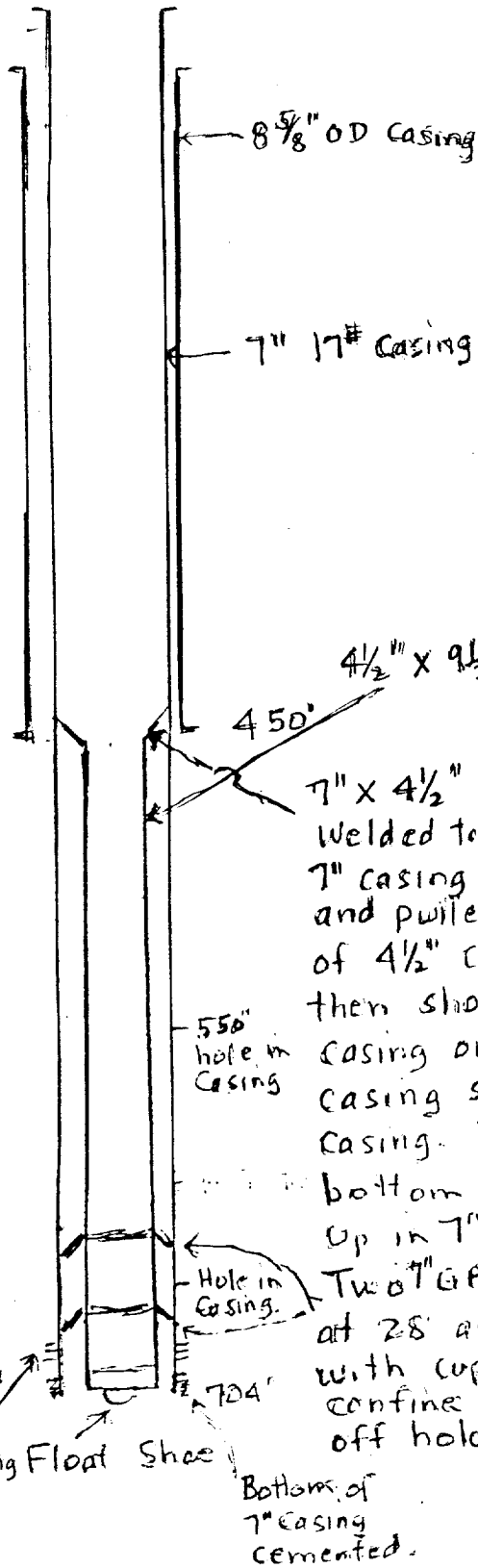
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The principle of the 4 1/2" casing welded into the Swedge and 7" casing was to force the cement behind the casing and shut off the holes in the 7" casing.

100 Sacks of cement used. After pumping cement with float holding 2" tubing was ran to bottom and excess cement in the casing pumped out.

Well perforated 656' 2 Holes
 " " 666-72' 5"
 " " 675-78' 4"

Perforations 7" casing at 682'
 Float Shoe



4 1/2" x 9 1/2" casing
 450'
 7" x 4 1/2" Swedge cut and welded to 7" casing after 7" casing backed off at 450' and pulled from hole, 254' of 4 1/2" casing ran in hole, then short piece of 4 1/2" casing on bottom of 7" casing screwed into 4 1/2" casing. 7" with 4 1/2" on bottom ran in and made up in 7" collar at 450'
 550" hole in casing
 Hole in casing
 Two 7" GP Guiberson cups at 28' and 50' from bottom with cups looking down to confine cement and shut off holes in the 7" casing.

Bottoms of 7" casing cemented.