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By *J. E. Sawley 6-15-93*

Verified By *John M. Miley*

6-16-93

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RECORD CENT COPY

October 19, 1948

107-F TEST WELL

100-F Area

The 107-F Test Well, drilled between the 107-F disposal trench and the Columbia River, about 250 feet from the trench, was drilled to a depth of 67 feet, about 25 feet below the water table. This well, which was six inches in diameter, was begun August 31, 1948 and finished September 10.

A representative of the Geology Group of the H. I. Division was present at the drill site and supervised the taking of all sediment samples. The drill bit and beller were surveyed with a portable instrument for radioactive contamination each time they were withdrawn from the well, and sediment samples were taken from the well every five feet. Portions of these sediment samples were dried and counted for contamination in a standard alpha chamber and in a mica window Geiger Muller tube. None of the sediment samples showed any significant alpha or beta-gamma contamination; neither did the water samples taken following perforation and after time for the ground water to circulate through the well.

The total amount of activity released into the ground through the disposal trench was considerably less than that discharged into the ground through regular 200 Area disposal cribs, although the total volume of liquids discharged was about equal in each case (about 8,000,000 gallons). The distance of about 250 feet from the disposal trench to the well was presumably too great for contaminated liquids to have penetrated, owing to the absorptive and adsorptive property of the sediments. Any well located to detect contamination in the sediments should thus be within 50 feet of the trench. Well 107-F has, however, demonstrated that no significant contamination is present in the ground water at that point.

R. E. Brown
HEALTH INSTRUMENT DIVISIONS

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