



**Work Plan to Plug and Abandon Test Well DT-5**

<b>Primary Purpose</b>	The purpose for plugging and abandoning well DT-5 is to prevent migration of water and contaminants from upper levels of the well to the zone of regional saturation. This work plan summarizes the plugging and abandonment methods the Laboratory proposes for test well DT-5, located on Frijoles Mesa in TA-49, Area 5. Well abandonment will be consistent with Section X.D, Well Abandonment, of the Consent Order and NMOSE regulations. A plugging plan will be submitted to NMOSE before abandonment.
<b>Construction</b>	Test well DT-5 was drilled to 927 ft bgs in 1960 (Weir and Purtymun 1962, 011890; Purtymun 1995, 045344) with rotary equipment using air. Water was not encountered. Circulation could not be maintained in the borehole due to numerous fractures and the hole was terminated at 927 ft bgs. The well may have 180 ft of 8-in casing and be open hole from 180 ft bgs to 927 ft bgs. This well was discovered 50 ft north of DT-5A during field reconnaissance of the site.
<b>Abandonment Methods</b>	All surface and subsurface appurtenances will be removed from the well before it is abandoned. The well will be video and gamma surveyed to document pre-abandonment conditions. The well will be grouted from TD to 3 ft bgs. The 8-in. casing will be cut at 2 ft bgs and removed. Tremmie pipe will then be lowered into the well to TD. The well will be pressure grouted by tremmie pipe to the surface.
<b>Surface Completion</b>	A neat-cement mound with brass marker will be installed over the well at ground surface. The marker will be surveyed in accordance with Section IX.B.2.f of the Consent Order, which states that pertinent structures may be horizontally located with a global positioning system with an accuracy of $\pm 0.5$ ft.
<b>Waste Disposal</b>	A WCSF will be prepared to guide disposal of any wastes generated during abandonment. No waste samples will be collected. Materials removed from the borehole will be reused or recycled if possible. Non-recyclable materials will be disposed in accordance with the WCSF.
<b>Summary Report</b>	A report will be prepared detailing the abandonment methods and the quantities of backfill materials used. A location map and abandonment schematic will also be included in the report.