

ATTACHMENT VI-3

TOP OF CEMENT IN INJECTION ZONE WELLS IN THE AREA OF REVIEW

Map ID No.	Casing Diameter (inches)	Setting Depth (feet)	Cement Volume (sacks)	Hole Diameter (inches)	Cement Factor (cu ft/sacks)	Hole Rugosity	Cement Height (feet)	Top of Cement (feet below ground)
161	13.375	472	450	17.5	1.1	0.8	570	Surface
	8.625	2589	900	12.25	1.1	0.8	1919	670
	5.5	9473	430	7.875	1.1			6000 ²
	4.5	10140	80	5.5	1.1	0.8	1291	Top of Liner
167	13.375	418	500	17.5	1.1	0.8	633	Surface
	8.625	2600	1150	11	1.1	0.8	3981	Surface
	5.5	10400	1000	7.875	1.1	0.8	5079	5321

Cement Height = Cement Volume * Cement Factor * Hole Rugosity * $1/(PI * (Hole Radius^2 - Casing Radius^2))$

* For Map ID No. 83, cement volume for 5.5 inch casing includes squeezes.

** For Map ID No. 124, hole diameter for 4-1/2 inch liner was not reported; 6.125 inches is estimated.

¹ Per temperature survey conducted on May 9, 1991.

² Per cement bond log on July 20, 1993. Log is included in Attachment VI-2.