

WELL PLUGGING MATERIAL REQUIREMENTS

	Well Inside Diameter (inches)									
	18	21	24	27	30	33	36	40	45	48
Bags of Bentonite	6	8	10	12	16	20	22	28	36	40
Depth in feet	Tons of Fill Material									
20	1.9	2.5	3.3	4.2	5.2	6.3	7.5	9.2	12	13
25	2.4	3.3	4.4	5.5	6.8	8.2	10	12	15	17
30	3.0	4.1	5.4	6.8	8.4	10	12	15	19	22
35	3.6	4.9	6.4	8.1	10	12	14	18	23	26
40	4.2	5.7	7.5	9.4	12	14	17	21	26	30
45	4.8	6.5	8.5	11	13	16	19	24	30	34
50	5.4	7.3	9.5	12	15	18	21	26	34	38
55	5.9	8.1	11	13	17	20	24	29	37	42
60	6.5	8.9	12	15	18	22	26	32	41	46
65	7.1	9.7	13	16	20	24	28	35	44	51
70	7.7	10	14	17	21	26	31	38	48	55
75	8.3	11	15	19	23	28	33	41	52	59
80	8.9	12	16	20	25	30	35	44	55	63
85	9.4	13	17	21	26	32	38	47	59	67
90	10	14	18	23	28	34	40	50	63	71
95	11	14	19	24	29	36	42	52	66	75
100	11	15	20	25	31	38	45	55	70	80
Per foot	0.1	0.15	0.2	0.25	0.3	0.35	0.45	0.55	0.7	0.8

For smaller or deeper wells, consult a qualified specialist.

Based on two bentonite seals, each one foot thick and equal in diameter to the inside of the well, with 10% extra @ 0.7 cubic feet per bag. Fill material based on well diameter and depth minus 4' with 10% extra and 120 pounds per cubic foot.

Prepared by Shawn Shouse, Extension Soil and Water Engineering Specialist, Southwest Extension Area. Nov., 1990.



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