

CARL ALLEN WELL NO 38 - CEMENT DESIGN

SURFACE CASING:

CASING:	9.625 " 36#, K-55	0.4340 cu.ft./lin.ft	ID= 8.921
ANNULUS:	12.250 " x 9.625" Gauge Hole	0.3131 cu.ft./lin.ft	
EXCESS:		100%	
CEMENT YIELD:	LEAD	2.99 cu.ft./sack 11.4 PPG	
	TAIL	1.15 cu.ft./sack 15.8 PPG	
TOTAL DEPTH		1,500 Feet	
TOP OF TAIL		900 Feet	
TOP OF LEAD		0 Feet (Surface)	

LEAD SLURRY						CU.FT
ANN	900	TO	0	0.3131	281.82	
ANN EXCESS				100%	281.82	
					563.63	189 SACKS 563.6 CU.FT.

TAIL SLURRY						CU.FT
CSG	1,500	TO	1,455	0.4340	19.53	
ANN	1,500	TO	900	0.3131	187.88	
ANN EXCESS				100%	187.88	
					395.28	344 SACKS 395 CU.FT.
					DISPLACEMENT	112.5 BBLS

PRODUCTION CASING:

CASING:	4.500 ", 13.5#, P-110	0.0838 cu.ft./lin.ft	ID= 3.92
ANNULUS:	7.875 "(For Gauge Hole)	0.2278 cu.ft./lin.ft	
	8.921 " ID x 4-1/2" CASING ANNULUS	0.3236 cu.ft./lin.ft	
EXCESS:		15%	
CEMENT YIELD:	LEAD	2.63 cu.ft./sack 11.5 PPG	
	TAIL	1.26 cu.ft./sack 14.2 PPG	
TOTAL DEPTH		9,495 Feet	
TOP OF TAIL		4,800 Feet	
TOP OF LEAD	OPEN HOLE TOP	1,500 Feet	
	CASED HOLE TOP	SURFACE Feet	

LEAD SLURRY						CU.FT
ANN	4,800	TO	1,500	0.2278	751.59	7-7/8" (For Gauge hole)
	1,500	TO	0	0.3236	485.34	9-5/8" X 4-1/2" Casing Annulus
ANN EXCESS				15%	185.54	
					1422.46	541 SACKS 1422 CU.FT.

TAIL SLURRY						CU.FT
CSG	9,495	TO	9,450	0.0838	3.77	
ANN	9,495	TO	4,800	0.2278	1069.30	
ANN EXCESS				15%	160.40	
					1233.47	979 SACKS 1233 CU.FT.
					DISPLACEMENT	141.0 BBLS

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12/2/10