

BJ SERVICES COMPANY
CEMENTING RECOMMENDATION
LONG STRING

STAGE 1

EST. STATIC TEMP. 144 DEG F
 EST. CIRC. TEMP. 124 DEG F

VOLUME CALCULATIONS

1500 FT X 0.1732 CU-FT/FT WITH 75 % EXCESS = 455 CU-FT
 1500 FT X 0.1732 CU-FT/FT WITH 75 % EXCESS = 455 CU-FT
 40 FT X 0.1305 CU-FT/FT WITH 0 % EXCESS = 5 CU-FT (INSIDE PIPE)

TOTAL SLURRY VOLUME: 915 CU-FT
 163 BBLs

SLURRY NO.	VOLUME CU-FT	VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
1	455	/ 2.09	= 220 SACKS 35:65 POZ (35% POZ:65% Class H) + 6.000 % GEL (BENTONITE) + 5.000 % SALT + 0.250 % CELLO FLAKE + 111.000 % WATER
2	460	/ 1.18	= 395 SACKS CLASS H + 0.500 % FL-25 + 46.000 % WATER

DISPLACEMENT FLUID: 185.0 BBL WATER @ 8.33 LB/GAL

CEMENT PROPERTIES

	SLURRY NO.1	SLURRY NO.2
SLURRY WEIGHT (LB/GAL)	12.41	15.61
SLURRY YIELD (CU-FT PER SACK)	2.09	1.18
AMOUNT OF MIX WATER (GALS PER SACK)	11.59	5.19
ESTIMATED PUMP TIME (HH:MM)	4:00	3:00
FREE WATER (CC)		0.0
FLUID LOSS (CC/30 Min.):		
AT 1000 PSI AND 124 F		210

U.S. DEPT. OF JUSTICE
ROOSEVELT OFFICE

NOV 24 P 3:16

RECEIVED

