



Pogo Producing Company

600 United Bank Building • Post Office Box 10340 • Midland, Texas 79702-7340 • 915/682-6822

POGO PRODUCING COMPANY

FEDERAL 23 WELL NO.5
SECTION 23, T-22-S, R-31-E
EDDY COUNTY, NEW MEXICO

CEMENT PROGRAM

Surface 840' 13-3/8 csg in 17-1/2" hole + 100% excess for washout
1167 cu ft cmt volume ÷ 1.33 volume yield = 877 sacks class
"C" + 2% CaCl_2

Slurry should circulate to surface

Intermediate 4500' 8-5/8" in 11" hole + 120% excess for washout
3889 cu ft cmt volume need

Slurry (1) 3624 cu ft ÷ 2.01 yield = 1805 sacks Lite

Slurry (2) 265 cu ft ÷ 1.33 yield = 200 sacks class "C"

Slurry should circulate to surface

Production 8500' 5-1/2' in 7-7/8" hole + 75% excess for washout

Slurry (1) 597 cu ft ÷ 1.18 yield = 590 sacks class "H" -
top of cmt should be 6200'±

Stage collar set @ 6200'±

Slurry (2) 533 cu ft ÷ 1.18 yield = 450 sacks class "H" -
top of cmt should be 100' inside Inter. casing