

13 3/8 INCH SURFAC. CASING AND HOLE DATA:

Hole Depth - 330'

Casing Size - 13 3/8"

Casing Depth - 330'

Hole Size - 17 1/2"

Fill-up Required - 330' (circulate cement)

Recommendation:

Install floating equipment, run 13 3/8" casing to bottom and circulate required hours to condition hole for cementing surface casing.

Mix 350 sacks of the following cement blend:

Class "C" Cement containing 2% Calcium Chloride

Slurry Weight: 14.8 lbs./gal.

Slurry Volume: 1.32 cu. ft./sk.

Water Ratio: 6.3 gals./sk.

This cement blend was designed to fill from 330 feet to ground level. The calculations incorporate 100 percent excess cement over a 13 3/8" x 17 1/2" annulus and experience in general area indicated cement should circulate.

Floating equipment should consist of:

One (1) Guide Shoe

One (1) Insert Float Valve

One (1) Centralizer

Two (2) Pounds Weld-A

One (1) Top 5 Wiper Plug

13 3/8" SURFACE CASING CEMENTING COST ESTIMATE:

Cement:

350 sacks Class "C" cement, 2% Calcium Chloride (including service charge)	\$1,994.66
17.78 ton-miles cement (60 miles)	576.07
	<u>\$2,570.73</u>

Service Equipment:

Pump Service (330') plus mileage (60 miles, estimate)	\$421.50
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