

AMOCO PRODUCTION COMPANY

Cementing Procedure/form 46

Well Name:

Amoco proposes to drill the well to further exploit the Fruitland coal formation.

The well will be drilled to the surface casing point using native mud.

The well will then be drilled to the production casing point with a non-dispersed mud system.

Surface Casing:

Quantity (ft)	Size (in)	Weight (ppf)	Description	Cement program
250	8 5/8"	24	J-55, ST&C	232 cf Class B, 2% CaCl ₂ + 0.25 #/sx Floccs. 1.18 cf/sx, 15.8 ppg

Hole Size: 12 1/4" Excess cement: 1.25

Production Casing

Quantity (ft)	Size (in)	Weight (ppf)	Description	Cement program
2074	5 1/2"	15.50 or 17.00	J-55, LT&C	.

* 1st Stg Lead: 548 cf Lite, 7 pps salt, , 5% Calseal, 3/8 pps Floccs
1.8 cf/sx, 13 ppg.

200 sx Class B, 0.4% H-344, 0.4% CFR-3, 5 pps Gilsenite
2% Microbond, 0.25 pps Floccs
1.28 cf/sx, 15.1 ppg

Hole size: 7 7/8" Excess cement: 80%

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- input depths from form 46 in shaded areas to calculate cement volumes.