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Cover photographs by Jack Schmid: On the cover are infrared and visual spectrum images of the Trans-Alaska Pipeline and a house in downtown Fairbanks.

The bright yellow in the infrared image of the thermosyphons on the pipeline vertical support members shows that the cooling fins are dissipating heat from the subsurface permafrost soils. The cooling fins are at -9°F and the surrounding air is -35°F . This keeps the permafrost cold enough to reduce melting during the warm summer season.

The images of the house, both taken at the same time, demonstrate the capability of the infrared camera to detect heat loss through framing and windows. The air temperature was -25°F and warm parts of the windows were 0°F .

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Roberta "Bobbie" Rice.

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