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Crystal Data: Orthorhombic. *Point Group:* 2/m 2/m . As well-formed, laminar crystals, to 5 mm, with $\{010\}$, $\{011\}$, and $\{111\}$; $\{001\}$ is common, but of poor quality.

Physical Properties: Cleavage: Perfect on $\{010\}$. Hardness = n.d. D(meas.) = 2.13(1) D(calc.) = 2.11

Optical Properties: Transparent to translucent. Color: White to slightly pink.

Luster: Vitreous.

Optical Class: Biaxial (-). Orientation: X = a; Y = b; Z = c. $\alpha = 1.4791(5)$ $\beta = 1.4851(5)$ $\gamma = 1.4891(5)$ 2V(meas.) = n.d. $2V(\text{calc.}) = 78(8)^{\circ}$

Cell Data: Space Group: Amma. a = 13.643(2) b = 18.200(3) c = 17.842(2) Z = 8

X-ray Powder Pattern: Capo Pula, Sardinia, Italy; cannot be distinguished from stellerite. 9.10 (> 100), 4.054 (100), 3.028 (80), 3.004 (25), 4.659 (20), 2.773 (20), 1.8192 (17)

Chemistry:		(1)
	SiO_2	58.82
	$\mathrm{Al_2O_3}$	14.75
	$\mathrm{Fe_2O_3}$	0.04
	MnO	trace
	$_{ m MgO}$	0.24
	CaO	1.66
	SrO	trace
	BaO	trace

5.97

 Na_2O

(1) Capo Pula, Sardinia, Italy; by AA, SiO_2 by gravimetry, Al_2O_3 by complexometric titration, H_2O by TGA; corresponds to $(Na_{1.36}K_{0.26}Ca_{0.21}Mg_{0.04})_{\Sigma=1.87}Al_{2.05}Si_{6.93}O_{18} \cdot 6.44H_2O$.

Mineral Group: Zeolite group.

Occurrence: On the walls of large fractures in deeply weathered andesitic and rhyolitic lavas.

Association: Heulandite.

Distribution: Found near Capo Pula, below South Efisio Tower, Nora, Sardinia, Italy.

Name: For Richard Maling Barrer (1910–), New Zealand-born British teacher and student of the chemistry of zeolites.

Type Material: University of Modena, Modena, Italy; National Museum of Natural History, Washington, D.C., USA, 128521.

References: (1) Passaglia, E. and D. Pongiluppi (1974) Sodian stellerite from Capo Pula, Sardegna. Lithos, 7, 69–73. (2) Passaglia, E. and D. Pongiluppi (1975) Barrerite, a new natural zeolite. Mineral. Mag., 40, 208. (3) (1976) Amer. Mineral., 61, 1053 (abs. refs. 1 and 2). (4) Galli, E. and A. Alberti (1975) The crystal structure of barrerite. Bull. Soc. fr. Minéral., 98, 331–340.