Crystal Data: Monoclinic. *Point Group*: 2/*m*. Typically as crusts of rounded crystals; as blocky

prismatic crystals, elongated on [010] and exhibiting $\{100\}$, $\{010\}$, $\{001\}$, $\{\overline{1}\ 11\}$, and $\{111\}$, to 2 mm.

Physical Properties: *Cleavage*: None. *Tenacity*: Very brittle. Hardness = 1 D(meas.) = 2.38(2) D(calc.) = 2.362 Crystals dehydrate to a yellow powder. Soluble in water.

Optical Properties: Transparent. *Color*: Yellow to yellow-orange. *Streak*: Yellow. *Luster*: Adamantine.

Optical Class: Biaxial (-). $\alpha = 1.743(5)$ $\beta = 1.773(5)$ $\gamma = 1.780(5)$ 2V(meas.) = 43(1)° *Dispersion*: r > v, strong. *Pleochroism*: X = light greenish yellow; Y = light yellow; Z = light brown.

Cell Data: Space Group: C2/c. a = 23.9019(7) b = 10.9993(3) c = 17.0504(5) $\beta = 118.284(1)^{\circ}$ Z = 2

X-ray Powder Pattern: Vanadium Queen Mine, Utah. 9.72 (100), 6.67 (80), 7.42 (70), 9.09 (60), 8.19 (60), 2.882 (50), 2.706 (50)

Chemistry:

	(1)
Na ₂ O	4.06
MgO	5.42
CaO	1.75
K_2O	0.47
V_2O_5	61.87
SO_3	2.55
H_2O	23.88
Total	100.00

(1) Vanadium Queen Mine, Utah; average of 2 argon-plasma spectrometric analyses, H₂O by difference, corresponding to $(Na_{1.84}Ca_{0.44}K_{0.14})_{\Sigma=2.42}Mg_{1.89}(V_{9.55}S_{0.45})_{\Sigma=10.00}O_{28.55}$ ·18.61H₂O.

Occurrence: As efflorescences in oxidized portions of paleochannel uranium vanadium deposits of the Colorado Plateau type.

Association: Rossite, dickthomssenite, hewettite.

Distribution: Vanadium Queen Mine, La Sal district, and Firefly-Pigmay and Blue Cap mines, Utah, USA. Likely widespread in other similar deposits on the Colorado Plateau, e.g. Yellow Cat district, Grand County, Utah, USA.

Name: For the mining district that provided the first specimens.

Type Material: National Museum of Natural History, Washington, D.C., USA (174744).

References: (1) Hughes, J.M., W.S. Wise, M.E. Gunter, J.P. Morton, and J. Rakovan (2008) Lasalite, $Na_2Mg_2[V_{10}O_{28}]$ ·20H₂O, a new decavanadate mineral species from the Vanadium Queen mine, La Sal District, Utah: description, atomic arrangement, and relationship to the pascoite group of minerals. Can. Mineral., 46, 1365–1372; (2009) Addendum. Can Mineral., 47, 206. (2) (2009) Amer. Mineral., 94, 1078-1079 (abs. ref. 1).