

Dept. of Geology/Geography
 Morrill Science Center, So.
 Univ. of Massachusetts
 Amherst, Mass. 01003
 J 36

Beb-

Want some of this?

Tomy

80/12/02. 20.29.11.

FILE KIFSP (NAIN)

PG 721 PEARLY GATES LABRADORITE STANDARD
 XRF THEN PROBE.

SPLNO	PCS	SI02	TIO2	AL2O3	FE2O3	FE0	MGO	CA0	NA20	K20	P2O5	SUM
PG 721	.00	54.86	.10	28.52	.00	.38	.05	11.11	4.95*	.45	.03	100.45
PG 721	.00	54.47	.04	28.54	.00	.28	.02	10.88	5.06	.45	.00	99.74
	SE**	.13	.02	.09		.005	.008	.03	.015	.001	.009	
SRU		0.307	UNTS.									

RUN COMPLETE.
 OLD, KIFSP

READY.
 RNH

PG 721 PEARLY GATES LABRADORITE STANDARD
 XRF THEN PROBE.

	SI	TI	AL	FIC	FOUS	MG	CA	NA	K	BA	SUM
PG 721	2.470	.003	1.513	.000	.014	.003	.536	.432	.026	.000	4.999
PG 721	2.468	.001	1.524	.000	.011	.001	.528	.445	.026	.000	5.004
SRU	0.311 UNTS.										

An 55.4
 K = 3760 ppm
 An' 53.9
 Ab 43.5
 Or 2.6
 100.0

RUN COMPLETE.

* Flame

** SE = XRF standard error of the mean

XRF: Ca .536 Na + K .458
 Al - 1 .513 Si - 2 .470
 Al-1 + FeMgTi.533

Probe beam misses opaque inclusions, hence underestimates Fe Mg Ti. Two inclusions analyzed are ilmenite: MgTiO₃ 0.012, FeTiO₃ 0.866, Fe₂O₃ 0.122.

Analysts: J. W. Sparks, J. M. Rhodes, S. A. Morse, K. Nolan.
 U. Mass. Geochem. Analysis Facility.