SAMPLE 9-CAD-83-1 Pillow lava 3-4 km NE of orebody. WINDY PILE

676035
114P/13

OXIDE	WEIGHT %	NORMALIZED	CATION %
SIO2	49.000	51.202	46.773
AL203	14.600	15.256	16.424
FE203	2.280	2.382	1.638
FEO	6.610	6.907	5.276
CAO	8.740	9.133	8.938
MGO	8.320	8.694	11.837
NA2O	3.640	3.804	6.736
K2O	1.130	1.181	1.376
TIO2	1.250	1.306	.897
MNO	.130	.136	.105
H2O	3.450	.000	.000
TOTAL	99.150	100	100

NORMS (MOLECULAR AND WEIGHT PERCENT)

MINERAL	Q	C	OR	AB	AN	LC	NE
CAT EQUIV	.00	.00	6.88	31.68	20.78	.00	1.20
WEIGHT %	.00	.00	6.98	30.28	21.06	.00	1.03

MINERAL	KP	AC	NS	KS	WO	CPX	OPX
CAT EQUIV	.00	.00	.00	.00	.00	19.13	.00
WEIGHT %	.00	.00	.00	.00	.00	19.52	.00

MINERAL	FO	FA	CS	MT	CM	HM	IL
CAT EQUIV	12.28	3.80	.00	2.46	.00	.00	1.79
WEIGHT %	10.49	4.71	.00	3.45	.00	.00	2.48

MINERAL	SP	PF	RU	AP	PR	CC
CAT EQUIV	.00	.00	.00	.00	.00	.00
WEIGHT %	.00	.00	.00	.00	.00	.00

PYROXENE AND OLIVINE COMPOSITIONS. WO GROUPED WITH CPX.

	TOTAL PX			OPX		CLINOPYROXENE			OLIVINE
	WO	EN	FS	EN	FS	WO	EN	FS	
CAT %	9.56	7.30	2.26	.00	.00	9.56	7.30	2.26	16.08
WT %	10.12	6.68	2.72	.00	.00	10.12	6.68	2.72	15.20

PYROXENE COMPONENTS NORMALIZED TO 100%
CLINOPYROXENE: WO 50.00, EN 38.18, FS 11.82 (CAT %); WO 51.85, EN 34.22,
TOTAL PYROXENE: WO 50.00, EN 38.18, FS 11.82 (CAT %); WO 51.85, EN 34.22,

NORMATIVE FELDSPAR RATIOS. AB' = AB+5/3NE
AN/(AN+AB) = 39.61 (CAT %); 41.02 (WT %)
AN/(AN+AB') = 38.16 CAT %
NORMALIZED TOTAL FELDSPAR (CATION %): AB' 54.91 OR 11.22 AN 33.88

(1-99)
ADD No 1, ete

SAMPLE 9-CAD-83-1 up to 16 characters.

NORMATIVE COLOUR INDEX (NCI) = OL+CPX+OPX+AC+MT+IL+HM+CM
NCI = 39.46 (CAT %) 40.65 (WT %) center at 1.1

TOTAL FEMICS = 39.458 (CAT %) 40.651 (WT %)

DIFFERENTIATION INDEX (DI) = QU+OR+AB+NE+LC+KP CORRECTED FOR NS,KS
DI = 39.76 (CATION) 38.29 (WEIGHT)

THE FOLLOWING QUANTITIES ARE CALCULATED FROM NORMALIZED DATA, AFTER ANY FE MODIFIC

A-F-M COMPONENTS: A= 21.93 F= 39.82 M= 38.25 (WT %)

FEO + 0.8998*FE2O3 = 9.051 (WT %)

SOLIDIFICATION INDEX = MGO/(MGO+FEO+FE2O3+NA2O+K2O) (WT %)= 31.1028

TOTAL NA2O + K2O (WT %) = 4.984

AGPAITIC INDEX (NA2O+K2O)/AL2O3 = .4939 (CAT %)

CAO, K2O, NA2O NORMALIZED TO 100%
WEIGHT %: C= 64.693 N= 26.943 K= 8.364
CATION %: C= 52.422 N= 39.508 K= 8.070

(FEO+FE2O3)/(FEO+FE2O3+MGO) = .5166 (WT %)

SHAND'S ALUMINA SATURATION INDEX (FROM MOLECULAR PROPORTIONS):
AL2O3/(CAO + NA2O + K2O) = .6320
AL2O3/(0.5*CAO + NA2O + K2O) = .9633