

samples collected by D. Tucker, Mount Baker Volcano Research Center, 7/29/2007.
 Analyses by W. Evans, 8/27/2007

	MB-1	MB-2	MB-3	MB-4
	Smiley grp.*	Moto grp.	Moto grp.	Moto grp.
	20070729	20070729	20070729	20070729
Temp C ¹	68.6	67.1	66.8	ND
vol-%				
He	0.0009	0.0009	0.0009	0.0008
H2	0.7046	0.0256	0.0432	0.0315
Ar	0.0249	0.0322	0.0293	0.0357
O2	0.6091	0.6786	0.6021	0.7585
N2	2.8921	3.2189	3.0848	3.8269
CH4	0.6141	0.6183	0.6093	0.5932
CO2	91.0714	89.4204	90.4423	88.4526
C2H6	<0.0002	<0.0002	<0.0002	<0.0002
H2S	4.2244	4.9635	4.1421	5.8239
CO	<0.001	<0.001	<0.001	<0.001
C3H8	<0.0005	<0.0005	<0.0005	<0.0005
C4H10	<0.0005	<0.0005	<0.0005	<0.0005
Sum	100.1415	98.9583	98.9539	99.5232
N2/Ar	116.3	100.1	105.5	107.3
air-cor.	-272.2	360.7	349.1	539.6
N2/O2	4.75	4.74	5.12	5.05
t(D'A,P)	239	116	122	121
CO2 term	1	10	10	10
d13C-CO2	-7.32	-7.2	-7.2	
d13C-CH4				
3He/4He (Rc/Ra)	7.44	7.48	7.34	
normalized vol%				
He	0.0009	0.0009	0.0009	0.0008
H2	0.7036	0.0258	0.0437	0.0317
Ar	0.0248	0.0325	0.0296	0.0358
O2	0.6082	0.6857	0.6085	0.7622
N2	2.8880	3.2528	3.1174	3.8453
CH4	0.6132	0.6248	0.6157	0.5960
CO2	90.9427	90.3617	91.3984	88.8764
C2H6	<0.0002	<0.0002	<0.0002	<0.0002
H2S	4.2185	5.0157	4.1859	5.8518
CO	<0.001	<0.001	<0.001	<0.001

C3H8	<0.0005	<0.0005	<0.0005	<0.0005
C4H10	<0.0005	<0.0005	<0.0005	<0.0005
CO2/H2S	21.5582	18.0157	21.8347	15.1880
¹ Temp data likely inaccurate				
*Smiley and Moto fumaroles groups are inside the west rim of Sherman Crater				
Reference:				
<p>Werner, C., Evans, W.C., Poland, M., Tucker, D.S., and Doukas, M., 2009, Long-term changes in quiescent degassing at Mount Baker volcano, Washington, USA; evidence for a stalled intrusion in 1975 and a connection to a deep magma source: Journal of Volcanology and Geothermal Research, v. 186, p. 379-386.</p>				