

Trace Element Analyses
Medicine Lake Strat Test 36-28

Sample	<u>36-28-1</u>	<u>36-28-2</u>	<u>36-28-3</u>	<u>36-28-4</u>	<u>36-28-7</u>	<u>36-28-8</u>	<u>36-28-9</u>
Depth	440'	866'	1,054'	1,502'	1,960'	2,121'	2,145'
Elevation	6,240'	5,814'	5,626'	5,178'	4,720'	4,559'	4,535'
S*	<0.05	<0.05	<0.05	<0.05	<0.05	0.12	0.10
Cl	<50.0	<50.0	139.68	<50.0	<50.0	<50.0	<50.0
V	148.78	211.64	243.07	132.11	<20.0	<20.0	<20.0
Ni	<20.0	34.05	<20.0	38.51	<20.0	<20.0	<20.0
Cu	84.4	63.14	94.94	61.09	<20.0	<20.0	<20.0
Zn	52.46	73.31	68.19	55.65	34.86	28.28	34.78
Rb	33.36	<20.0	<20.0	21.68	84.67	109.4	123.8
Sr	417.44	343.91	477.59	575.45	82.13	99.95	102.77
Zr	135.64	108.88	154.22	130.43	169.58	120.67	132.43
Ba	385.7	220.64	285.84	338.64	1,147.39	940.36	1,031.31
Pb	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0

All trace elements except S are in ppm

*Weight percent

Chemical Analyses and Norms of
Mt. Shasta Strat Test 36-28 Volcanic Rocks

	<u>36-28-1</u>	<u>36-28-1A</u>	<u>36-28-2</u>	<u>36-28-3</u>	<u>36-28-4</u>	<u>36-28-7</u>	<u>36-28-8</u>	<u>36-28-9</u>
Depth	440'	440'	866'	1,054'	1,502'	1,960'	2,121'	2,145'
Elevation	6,240'	6,240'	5,814'	5,626'	5,178'	4,720'	4,559'	4,535'
SiO ₂	58.76	58.64	49.29	54.98	57.24	72.85	74.27	72.92
TiO ₂	0.83	0.83	1.54	1.31	0.71	0.13	0.14	0.15
Al ₂ O ₃	17.30	17.24	17.01	16.82	17.90	12.68	13.45	14.17
Fe ₂ O ₃	6.90	6.65	10.85	9.13	6.59	1.34	1.84	2.26
FeO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MnO	0.11	0.11	0.18	0.14	0.09	0.04	0.03	0.02
MgO	3.39	3.41	6.00	3.45	3.67	0.14	0.12	0.08
CaO	6.81	6.80	9.69	7.91	6.79	1.01	0.85	0.85
Na ₂ O	3.39	3.27	2.89	3.38	3.20	3.72	4.07	4.18
K ₂ O	1.54	1.54	0.58	1.06	1.28	3.20	3.84	4.26
P ₂ O ₅	0.16	0.16	0.34	0.22	0.17	0.02	0.02	0.01
H ₂ O+	-0.03	-0.03	-0.49	0.57	0.36	2.45	0.50	0.63
H ₂ O-	<u>0.08</u>	<u>0.08</u>	<u>0.08</u>	<u>0.55</u>	<u>0.74</u>	<u>2.04</u>	<u>0.14</u>	<u>0.20</u>
Total	99.24	98.70	97.96	99.52	98.74	99.62	99.27	99.73

	<u>36-28-1</u>	<u>36-28-1A</u>	<u>36-28-2</u>	<u>36-28-3</u>	<u>36-28-4</u>	<u>36-28-7</u>	<u>36-28-8</u>	<u>36-28-9</u>
q	15.09	15.57	4.56	11.99	14.59	36.64	33.95	30.39
c	0.0	0.0	0.0	0.0	0.0	1.31	1.10	1.16
or	9.10	9.10	3.43	6.26	7.56	18.91	22.69	25.17
ab	28.69	27.67	24.45	28.60	27.08	31.48	34.44	35.37
an	27.44	27.82	31.73	27.59	30.70	4.88	4.09	4.15
di-wo	1.19	1.01	3.95	2.59	0.0	0.0	0.0	0.0
di-en	1.02	0.87	3.42	2.24	0.0	0.0	0.0	0.0
di-fs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
hy-en	7.42	7.62	11.53	6.36	9.14	0.35	0.30	0.20
hy-fs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
mt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
il	0.24	0.24	0.39	0.30	0.19	0.09	0.06	0.04
hm	6.90	6.65	10.85	9.13	6.59	1.34	1.84	2.26
tn	1.73	1.73	3.28	2.83	1.32	0.0	0.0	0.0
ru	0.0	0.0	0.0	0.0	0.07	0.08	0.11	0.13
ap	<u>0.38</u>	<u>0.38</u>	<u>0.81</u>	<u>0.52</u>	<u>0.40</u>	<u>0.05</u>	<u>0.05</u>	<u>0.02</u>
Total	99.20	98.66	98.39	98.41	97.65	95.13	98.63	98.90
Femic	18.88	18.50	34.22	23.96	17.72	1.91	2.36	2.65
Salic	80.32	80.16	64.17	74.45	79.93	93.22	96.27	96.24

All values are in weight percent

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