

Rea Horizon ASSAYS



$$\frac{d}{h} = \sin \theta$$

$$d = h \sin \theta$$

intersect angle

24	NSA		
22	.16 - 1.22 - 0.81 - 1.78 - 14.5 - 2.0	11.5	40°
	<small>Ca Zn Pb As Ag Au N</small>		
23	.03 - 0.63 - .06 - .49 - 1.4 - 0.2	1.5	40°
21	.43 - 3.48 - 2.94 - 2.98 - 123.5 - 10.74	10	40°
20	.59 - 4.7 - 3.92 - 5.75 - 104.4 - 6.6	11.6	40°
25	.82 - 4.93 - 3.89 - 5.02 - 145.7 - 17.7	11.6	40°
8	.59 - 1.49 - 2.47 - 3.68 - 128 - 17.1	3.35	90
19	.01 - .14 - .10 - 0.61 - 1.4 - 0.2	1.5	40°
16	.87 - 9.2 - 7.16 - 0.56 - 198.25 - 7.1	11.45	40°
18	.03 - .26 - .16 - .03 - 2.0 - 0.1	0.9	40°
28	NSA		
17	.82 +33 104 - 1.54 - 1.54 - 6.5 - 0.3	1.0	40°
10	130 - 2.28 - 1.14 - 3.24 - 18.5 - 0.9	11.6	90
30	.02 - .25 - .96 - 4.03 - 20.2 - 3.17	11.5	65
12	101 - .01 - .28 - 0.03 - 1.22 - .05	.8	90
9	.36 - 1.8 - 1.78 - 1.75 - 31.6 - 0.63	1.1	90
11	.24 - 4.96 - 2.68 - 1.76 - 22.2 - 0.69	11.55	90
27	.08 - 1.15 - .35 - .92 - 6.8 - 1.0	11.5	60
7	.06 - .52 - .35 - .12 - 33.0 - 6.8	0.5	90
4	.05 - .21 - .23 - .07 - 6.52 - 0.7	11.5	90
6	.26 - 3.74 - 2.08 - 7.73 - 34.2 - 9.19	11.5	90
1	.01 - .13 - .08 - .17 - 7.76 - 1.4	0.2	90
2	.03 - .23 - .18 - .03 - 20.2 - 1.3	5.2	90
5	.16 - .75 - .46 - .95 - 14.3 - 2.68	1.7	90
26	NSA		
3	.01 - .04 - .02 - .02 - 4.55 - 0.20	1.6	90
13	NSA		
31	NSA		
14	NSA		
15	.16 - .82 - .59 - .28 - 6.8 - 0.4	0.3	90.

STANDARD SAMPLES

	Cu	Zn	Ba	SiO ₂	CaO	MgO	Na ₂ O	TiO ₂	
1050	3	7	1920	67.2 67.2	3.13	1.02	1.55	0.20	
1551	7	7	2140	67.8	3.32	0.83	1.67	0.27	
1559	8	11	2020	71.0	2.56	0.88	1.62	0.28	
1651	not set?								
	6	10	1980	68.9	2.48	0.84	1.52	0.23	
1074	6	10	860	60.5	0.47	3.55	1.94	1.43	*
1694	6	6	1640	63.5	4.32	0.77	1.62	0.23	
1726	2	11	1730	64.6	3.40	0.87	1.69	0.27	
122	3	14	1500	67.4	2.66	0.76	1.62	0.22	
150	5	4	1800	67.0	3.13	0.76	1.66	0.25	
1675A	3	5	1670	64.0	3.61	0.78	1.56	0.23	
109A	4	7	1600	65.7	3.29	0.95	1.66	0.25	
176	7	7	1670	62.9	3.48	0.80	1.54	0.23	
200	8	16	1620	64.8	2.13	0.79	1.64	0.25	
256	16	11	1910	68.0	2.90	0.97	1.60	0.20	
283	Not a standard!								
277	3	9	1830	65.7	2.87	0.79	1.46	0.20	
300	4	12	1980	70.6	2.99	0.87	1.82	0.20	
326	4	13	1910	67.2	2.91	0.79	1.69	0.20	
352	5	7	1670	66.7	3.01	0.74	1.46	0.18	

* Obviously was not a standard! Upper one is this (2 samples - same #).

SUMMARY

	<u>Cu</u>	<u>Zn</u>	<u>Ba</u>	<u>SiO₂</u>	<u>CaO</u>	<u>MgO</u>	<u>Na₂O</u>	<u>TiO₂</u>
range	2-16	4-16	1500-2140	62.9-71.0	2.13-4.32	0.74-1.02	1.46-1.82	0.18-0.28
mean	5.53	9.24	1799	66.65	3.08	0.84	1.61	0.23
s.d.	3.28	3.36	179	2.30	0.46	0.08	0.09	0.03
s.d. / mean (%)	59%	36	10	3.5	15	9.5	5.5	13

"Lower Mafic"

795 (poss), 799, 2838, 2864 (dior), 2885-86,

Miscel. or Unknown

797, 2527, 2533, 2540 (2550), 2652 (2663), 2777, 2584 (2587), 2830

Johnson Pyrox

800, 2894.

K7 Mafic - Int.

2665, 2666, 2667, 2669, 2673, 2674, 2596, 2597, (2585), 2828, 2829,

Mount Arrowe

2626-2639, 2500-2507, 2515-2525

S&E of Grid - AA / Bay basalts (check some AA samples too)

2832,