

Springer  
M319.1

Allen

~~VH171~~

H452

Now	Met	Troil	Goeth
15			
22			
31			
37			
49			
50			
56			
55			
62	40		
60	3.7%		
62		1	
65		31	
64		4.7%	
60			
66			
48			
60			
54			11
916			87
83.7%			8.0%

Total 1094

$$\frac{83.7(3.3)}{100} + \frac{3.7(7.7)}{100} + \frac{4.7(4.75)}{100} + \frac{8.0(4.3)}{100} = D$$

$$2.76 + 0.28 + 0.22 + 0.34 = 3.6$$

$$\frac{3.7(7.7)}{3.60} = 7.9 \text{ wt \% Met}$$

$$\frac{4.7(4.75)}{3.60} = 6.2 \text{ wt \% Troil}$$

$$\frac{8.0(4.3)}{3.60} = 9.6 \text{ wt \% Goeth}$$

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	MgO	FeO	CaO	Totals	En	Fs	Wo	Total	Fs	Wo
1	31.66	11.59	0.63	100.65	.785	.161	.011	0.957	16.82	1.1
2	31.98	11.10	0.32	100.03	.793	.154	.006	0.953	16.16	0.6
3	31.93	11.36	0.61	95.86	.792	.158	.011	0.961	16.44	1.1
4	31.96	11.40	0.52	99.05	.793	.159	.009	0.961	16.55	0.9
5	31.98	11.29	0.50	99.36	.793	.157	.009	0.959	16.37	0.9
6	31.69	11.38	0.51	98.78	.786	.158	.009	0.953	16.58	0.9
7	32.17	11.21	0.44	98.90	.798	.156	.008	0.962	16.22	0.8
8	32.05	11.44	0.47	99.70	.795	.159	.008	0.962	16.53	0.8
9	31.91	11.23	0.51	99.34	.792	.156	.009	0.957	16.30	0.9
10	31.59	11.25	0.53	99.87	.784	.157	.015	0.956	16.42	1.6
11	30.91	11.23	1.72	99.49	.767	.156	.031	0.954	16.35	3.2
12	32.13	11.20	0.66	100.30	.797	.156	.012	0.965	16.17	1.2
13	32.12	11.35	0.55	100.76	.797	.158	.010	0.965	16.37	1.0
14	32.17	11.04	0.49	100.73	.798	.154	.009	0.961	16.02	0.9
15	33.02	12.20	0.42	99.41	.819	.170	.007	0.996	17.07	0.7
16	32.36	11.46	0.49	100.59	.803	.159	.009	0.971	16.37	0.9
17	31.72	10.80	1.06	99.39	.787	.150	.019	0.956	15.69	2.0
18	31.67	11.42	0.54	99.60	.786	.159	.010	0.955	16.65	1.0
19	31.88	11.40	0.63	100.15	.791	.159	.011	0.961	16.55	1.1
20	31.98	11.23	0.46	99.11	.793	.156	.008	0.957	16.30	0.8

M = 16.4 1.1

σ = 0.29 0.58

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	MgO	FeO	Total	FeO	FeO + MgO	Mol % Fa
1	42.99	17.32	99.29	0.241	1.307	18.44
2	42.67	17.71	99.09	0.246	1.305	18.85
3	42.49	17.29	98.66	0.241	1.295	18.61
4	42.59	17.60	99.05	0.245	1.302	18.82
5	42.76	17.69	99.47	0.246	1.307	18.82
6	43.00	17.56	99.35	0.244	1.311	18.61
7	42.51	17.70	98.82	0.246	1.301	18.91
8	42.67	17.50	98.88	0.244	1.303	18.73
9	42.70	17.39	98.95	0.242	1.301	18.60
10	43.06	17.49	99.11	0.243	1.311	18.54
11	42.94	17.49	99.00	0.243	1.308	18.58
12	42.91	17.36	98.92	0.242	1.307	18.52
13	42.90	17.65	99.12	0.246	1.310	18.78
14	42.66	17.79	99.25	0.248	1.306	18.99
15	42.78	17.36	99.14	0.242	1.303	18.57
16	42.99	17.63	99.42	0.245	1.311	18.69
17	43.01	17.39	99.40	0.242	1.309	18.49
18	42.53	17.84	99.31	0.248	1.303	19.03
19	42.92	17.91	99.75	0.249	1.314	18.95
20	42.85	17.46	99.30	0.243	1.306	18.61

$$\bar{M} = 18.71$$

$$\sigma = 0.18$$