

DR2003100

**TABLE DR. IN SITU Re-Os DATA OF PENGHU SULFIDES, TAIWAN**

Sample	<sup>187</sup> Os/ <sup>188</sup> Os	±2se	<sup>187</sup> Re/ <sup>188</sup> Os	±2se	Os (ppm)	Pt (ppm)	Os/Pt	T <sub>RD</sub> <sup>†</sup>	2sd	T <sub>MA</sub>	2sd	γOs <sup>†</sup>	% <sup>187</sup> O	T <sup>°</sup>
													Ol	(°C)
<b>Kueipi peridotites</b>														
KPH9810-s1	0.1228	0.0028	0.1417	0.0030	70	6	13	0.63	0.42	0.96	0.64	-3.3	88.5	1020
KPH9816/3-1-s'	0.1160	0.0036	0.2168	0.0048	10	8	1.2	1.63	0.54	3.46	1.14	-8.6	91.0	926
KPH9816/3-1-s'	0.1194	0.0016	0.1395	0.0034	20	25	0.8	1.13	0.24	1.72	0.36	-6.0		
KPH9816/3-1-s'	0.1061	0.0030	0.2951	0.0220	43	10	4.2	3.05	0.77	10.73	2.69	-16.4		
KPH9822-s0	0.1187	0.0030	0.7094	0.0072	36	0	240	1.26	0.45	-1.64	0.60	-6.6	90.2	1014
KPH9822-s4	0.1091	0.0015	0.7240	0.0138	83	40	2.1	2.64	0.25	-3.43	0.33	-14.2		
KPH9822-s4-2	0.1182	0.0014	0.1176	0.0044	95	75	1.3	1.31	0.21	1.83	0.29	-6.9		
KPH9826-s1	0.1190	0.0022	0.1509	0.0062	40	82	0.5	1.19	0.33	1.89	0.52	-6.3	89.6	983
KPH9826-s2	0.1239	0.0009	0.2931	0.0076	43	4	12	0.48	0.14	1.71	0.48	-2.5		
KPH9826-s4	0.1327	0.0064	0.5683	0.0780	10	12	0.4	0.84	1.02	2.03	2.46	4.5		
KP0201-s2	0.1202	0.0050	0.7777	0.0220	6	0	13	1.04	0.77	-1.10	0.81	-5.4	90.3	997
KP0201-s4	0.1256	0.0046	0.5252	0.0182	5	1	8.6	0.23	0.76	-0.09	2.25	-1.1		
KP0201-s5	0.1123	0.0014	1.0776	0.0320	87	154	0.6	2.21	0.23	-1.33	0.14	-11.8		
KP0201-s7	0.1210	0.0028	0.8974	0.0280	110	187	0.6	0.93	0.44	-0.73	0.34	-4.8		
KP0214-11-s0	0.1212	0.0026	0.4320	0.0400	20	20	1.0	0.89	1.24	-12.95	18.10	-4.6	90.3	1009
KP0214-11-s3-1	0.1270	0.0036	0.7201	0.0138	5	14	0.4	0.04	2.74	-0.03	0.68	-0.1		
KP0214-11-s6	0.1240	0.0022	0.7004	0.0220	10	25	0.4	0.48	0.35	-0.61	0.45	-2.5		
KP0214-16-s0-1	0.1155	0.0036	0.1526	0.0058	48	330	0.1	1.70	0.53	2.70	0.85	-9.0	90.1	1001
KP0215-s1	0.1249	0.0032	0.4560	0.0240	9	16	0.6	0.32	0.53	-2.42	3.78	-1.7	90.2	1004
KP0215-s4	0.1216	0.0020	0.2838	0.0144	16	13	1.2	0.82	0.32	2.71	1.05	-4.3		
KP0215-s5	0.1167	0.0009	0.2111	0.0120	63	29	2.2	1.52	0.16	3.15	0.34	-8.1		
KP0215-s6	0.1195	0.0013	0.3364	0.0102	12	31	0.4	1.13	0.27	6.52	1.54	-5.9		
KP0215-s7	0.1172	0.0016	0.1914	0.0044	5	1	5.5	1.45	0.25	2.73	0.46	-7.7		
KP0215-s8	0.1216	0.0012	0.4089	0.0048	16	4	4.5	0.83	0.60	-90.02	64.82	-4.3		
<b>Kueipi pyroxenite</b>														

KPH9801/2-1-s'	0.1204	0.0054	0.2150	0.0118	11	10	1.1	0.99	0.81	2.10	1.71	-5.2	90.5
KPH9801/2-1-s'	0.1148	0.0028	0.2294	0.0068	34	141	0.2	1.81	0.42	4.11	0.96	-9.6	

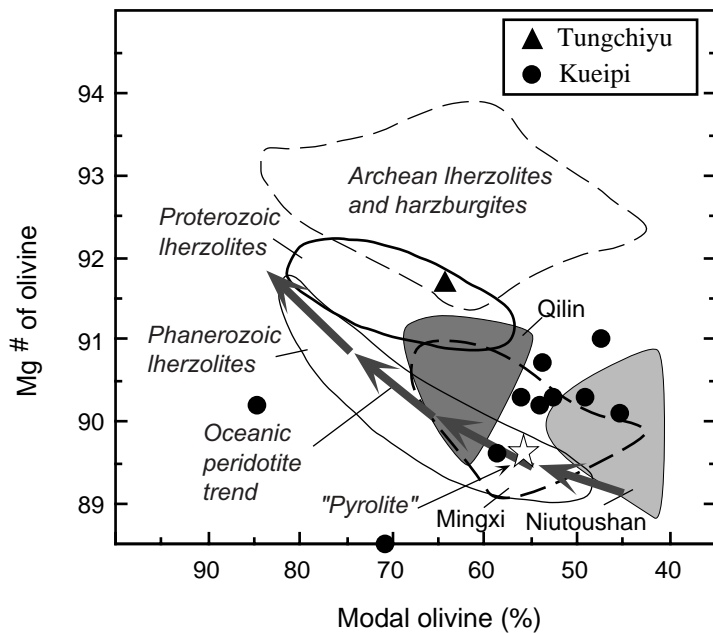
**TABLE DR. IN SITU RE-OS DATA OF PENGHU SULFIDES, TAIWAN (continued)**

Sample*	$^{187}\text{Os}/^{188}\text{Os}_\epsilon$	$\pm 2\text{se}$	$^{187}\text{Re}/^{188}\text{Os}_\epsilon$	$\pm 2\text{se}$	$\text{Os}$ (ppm)	$\text{Re}$ (ppm)	$\text{Os}/\text{Re}$ (ppm)	$T_{\text{RD}}^\dagger$	2sd	$T_{\text{MA}}$	2sd	$\gamma_{\text{Os}}^\dagger$	$\gamma_{\text{Re}}^\dagger$	$T^\S$
<b>Tungchiyu peridotite</b>														
TC0242/2-s6	0.1139	0.0022	0.0632	0.0010	32	122	0.3	1.93	0.32	2.28	0.38	-10.3	91.7	970
TC0242/2-s11	0.1157	0.0020	0.2528	0.0036	9	9	1.1	1.68	0.29	4.39	0.77	-8.9		
TC0242/2-s12	0.1198	0.0018	0.4753	0.0078	6	17	0.4	1.09	0.30	-6.21	1.71	-5.7		
TC0242/2-s13	0.1128	0.0034	0.2770	0.0084	5	9	0.5	2.09	0.52	6.46	1.61	-11.2		
<b>Tungchiyu pyroxenites</b>														
TC0248-s6	0.1187	0.0011	0.2172	0.0048	23	37	0.6	1.24	0.17	2.64	0.37	-6.5	90.6	
TC0248-s11	0.1223	0.0009	0.1909	0.0046	27	50	0.5	0.70	0.13	1.31	0.25	-3.6		
TC0248-s12	0.1224	0.0028	0.2149	0.0052	20	20	1.0	0.70	0.42	1.47	0.89	-3.6		
TC0248-s13	0.1133	0.0046	0.4387	0.0220	8	13	0.6	2.03	1.39	-27.93	19.10	-10.8		
TC0248-s16	0.1186	0.0015	0.1204	0.0020	44	15	2.9	1.24	0.23	1.76	0.32	-6.5		
TC0248-s18	0.1186	0.0028	0.2590	0.0042	15	27	0.6	1.26	0.42	3.44	1.15	-6.6		
TC0248-s30	0.1170	0.0015	0.1536	0.0026	16	1	17	1.48	0.23	2.37	0.36	-7.8		
TC0248-s31	0.1193	0.0040	0.0824	0.0022	23	8	2.8	1.14	0.59	1.42	0.74	-6.0		
TC0223-s1	0.1274	0.0030	0.2734	0.0108	5	8	0.6	-0.05	0.38	-0.19	1.40	0.4		
TC0223-s2	0.1241	0.0018	0.3746	0.0098	3	4	0.6	0.44	0.32	6.07	4.35	-2.3		
TC0223-s3	0.1212	0.0010	0.0252	0.0003	36	30	1.2	0.87	0.15	0.92	0.16	-4.5		
TC0223-s7	0.1272	0.0032	0.1951	0.0060	3	3	1.0	-0.02	0.34	-0.04	0.93	0.2		
TC0223-s8	0.1231	0.0019	0.0356	0.0017	10	1	11	0.58	0.29	0.63	0.31	-3.0		
TC0223-s11	0.1247	0.0020	0.3363	0.0034	9	20	0.5	0.36	0.31	2.11	1.80	-1.8		
TC0223-s12	0.1214	0.0009	0.0202	0.0007	46	6	7.3	0.83	0.14	0.88	0.15	-4.4		
TC0223-s13	0.1281	0.0040	0.1698	0.0046	4	7	0.5	-0.15	0.58	-0.27	1.04	0.9		
TC0223-s14	0.1214	0.0020	0.2087	0.0072	4	5	0.9	0.84	0.30	1.71	0.62	-4.4		
TC0223-s15	0.1197	0.0018	0.1871	0.0024	7	18	0.4	1.09	0.27	2.02	0.49	-5.7		

\* Sample labelled "-s2" represents different sulfide grains in a single thin section.

† Calculated at 13 Ma, using measured  $^{187}\text{Re}/^{188}\text{Os}$  and decay constant of  $1.666\text{E}-11$ .  $^{187}\text{Os}/^{188}\text{Os}$  and  $^{187}\text{Re}/^{188}\text{Os}$  of CHUR are 0.127 and 0.40186.

§ Estimates of equilibrium temperature using Brey and Kohler (1990).



**Figure DR.** The plot of Mg-number versus modal olivine of host peridotites, Penghu, Taiwan.