

Willow Grove paper
MAPS V.36, A247-A252
2001

Tishowingo Info

(from MAPS V.36, A247-A252
2001)

N.A. data
UCLA

	$\frac{\mu\text{g}}{\text{g}}$		$\frac{\text{wt}\%}{}$		$\frac{\mu\text{g}}{\text{g}}$
Cr	100	Fe	—	Re	1640
Cu	18	Co	1.26		
Ga	0.25	Ni	32.1		
Ge	0.088				
As	0.5				
W	0.20				
Ir	17.4				
Au	0.144				

High Ni Met's:

Santa Catarina	35%
Tish	32% (32.1)
Twin City	30% (29.9)
Livee Creek	29.5%
Willow Grove	27.9%

Tish: chiefly martensite (low P content)
retained austenite (Ives et al, 1978)
no kamacite
plate morphology
martensite decomposed into bcc and fcc phases —
prob from thermal aging.

Suggested Origin:

Tish results from impact melting of a relatively
oxidized, possibly chondritic, regolith which
freed volatiles (Cu, Ga, As, Au)