



# PAMINCO EXPLORATION DIAMOND DRILL CORE RECORD

HOLE No. MMI/MMIa

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LOCATION		OBJECTIVE						LOCATION/SURVEY DATA (AMG)													
LOCATION	TASMANIA	TO LOCATE POSTULATED CAMBRIAN VOLCANOGENIC SOURCE OF THE REMOBILIZED BASEMETAL SULPHIDES IN THE DEVONIAN LODE AT THE MURCHISON MINE.						Grid		AMG		RL Collar m		178.7							
PROJECT	TULLAH EL 22/90							Northing m		5 376487.1		Bearing Collar		102°							
PROSPECT	MURCHISON MINE							Easting m		385432.9		Dip Collar		-70°							
DESIGNED BY	J.G. PURVIS							DH Survey Type		SINGLE SHOT EASTMAN CAMERA		Length Hole m		400.7m							
LOGGED BY	J.G. PURVIS	<b>RESULT</b> HOLE MMI ABORTED AT 60m AFTER LIFTING SHARPLY AND RECOMMENDED FROM 18m AS HOLE MMIa. NO SIGNIFICANT MINERALIZATION INTERSECTED. FARRELL SLATES SEQUENCE ENCOUNTERED TO 267.5m, AND ALTERED RHYOLACITIC VOLCANICLASTICS AND LAVAS OF MURCHISON VOLCANICS BELOW 267.5m. UNMINERALIZED MURCHISON MINE HOST ROCK INTERSECTED 218-237m.						Depth m		Bearing		Dip		Depth m		Bearing		Dip			
RELOGGED								MMI: (0-60m)													
COMMENCED	14.1.93							30		099.5°		-65.25°									
COMPLETED	19.2.93							60		098°		-60.25°									
DRILLED BY	W. HOW							MMIa: (18-400.7m)													
DRILL RIG	LONGYEAR 38							30		100.5°		-67.5°									
<b>SIGNIFICANT INTERSECTIONS</b>												61		101.5°		-66.75°					
From m	To m	Interval m	Pb	Zn	Ag	Comments					91		100°		-65°						
351.6	352.85	1.25	0.09%	0.15%	2 g/t	BEST INTERSECTION: TUFFACEOUS SILTSTONE BAND IN MURCHISON VOLCANICS.					121		097.5°		-63°						
											151		096°		-59.75°						
						181		096°		-56.75°											
						211		097.75°		-55°											
						241		097.25°		-53.25°											
						271		098.5°		-52°											
						301		098°		-50°											
						331		097°		-49°											
						361		097.5°		-48.5°											
						391		097°		-48°											
<b>HOLE SIZE</b>			<b>HOLE CONDITIONS AFTER COMPLETION</b>																		
Size	Depth m	Collar	STEEL CAP SCREWED INTO CASING CEMENTED AT GROUND SURFACE																		
HQ	69	Steel Casing	6.5m OF HW-SIZED GALVANIZED STEEL CASING PLACED IN TOP OF HOLE																		
NQ	400.7	PVC Casing	40mm ID UNSLOTTED PVC PLACED TO BASE																		
		Ground Water																			
		Wedge																			
		Drill Pad																			

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# L. ASMINCO EXPLORATION DIAMOND DRILL CORE LOG

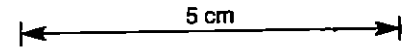
HOLE No. MMI

PROJECT: MURCHISON MINE, TULLAH EL 22/90

Graphic Scale 1: 200

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CORE RECOVERY				DESCRIPTION							CODES			
From m	Interval m	%	ROD	From m	Interval m	( incl. LITHOLOGY, STRUCTURE & ALTERATION )	Depth (m)	Graphic Lithology	Struct.	MINERALISATION	LITHO	STRUCT	ALTM	MIN
						<u>0 - 60.0m: FARRELL SLATES</u>	-2							
						<u>0 - 5.5m: NO CORE</u>	-4	NO CORE						
						<u>5.5 - 15.85m: PREDOMINANTLY DARK GREY SHALE</u>	-6							
						<b>Lithology:</b> Partly carbonaceous & sericitic shale, with common interbeds of calcareous siltstone & v minor fine sandstone.	-8	PREDOMINANTLY SHALES			5.5 - 15.85m:			
						<b>Alteration:</b> Essentially unaltered - sericite after degradation of vitric component, not hydrothermal alteration.	-10				2% py-po, locally up to 3-5% (core weakly magnetic).			
						Irreg barren qtz-carb vein 14 -14.35m. Minor carb veinlets.	-12				Fi gr dissem & v thin stringers along cleav.			
						<b>Structure:</b> Generally thin & regularly bedded. Bedding 38°/LCA @ 7m.	-14	qtz carb vein						
						Weak-mod cleavage (bedding //). Slight kinking in places.	-16	sst arg sst arg						
						Broken, worst above 8m.	-18	sst sst						
						Basal contact sharp (bedding plane) 43°/LCA.	-20							
						<u>15.85 - 18.85m: FINE VOLCANICLASTIC SANDSTONE</u>	-22							
						<b>Lithology:</b> Grey, mod calcareous.	-24	silty to sandy shale			15.85 - 18.85m:			
						Massive appearance, but slight variations in grain size indicate unit comprises several pulses of detritus.	-26				Minor to 1% dissem py.			
						Composed of feldspar > qtz & lithic grains, av <1mm, in sl sericitic and carbonaceous shaley matrix. Abund tiny wisps of deformed black shale.	-28							
						Bands of fine stretched-pebble conglomerate @ 16.05 - 16.25m & 17 -17.1m. (Pebbles comprise tuffaceous shale, chert, carbonate & black shale. Up to max 10-20mm long & <5mm wide).	-30							
						<b>Alteration:</b> Essent unaltered. Feldspar grains carbonatised.	-32	sst sst						
						Minor carb veinlets.	-34							
						<b>Structure:</b> Mod cleaved, with minor kinking.	-36	silty to sandy shale						
						Basal contact sharp (bedding) 43°/LCA.	-38							
						<u>18.85 - 57.0m: CALCAREOUS SILTY TO SANDY SHALE</u>	-40							
						<b>Lithology:</b> Dark grey.	-42				18.85 - 57.0m:			
						A mod calcareous fi gr sed, comprising subordinate silt to sand-sized feldspar, qtz and silic lithic grains scattered in dark grey to black, partly-carbonaceous & sl sericitic shaley matrix.	-44				Gen 1% py>po, fi gr dissem.			
						Some qtz xyl grains to 4mm.	-46				Varies from minor to +2%.			
						Occ fine massive sst bands - largest 30.65 - 32.3m.	-48	kink thin 23-24m			Trace cp in places.			
						<b>Alteration:</b> Carbonatisation of feldspar grains.	-50							
						Common veinlets (& lesser veins) of carb > qtz, gen in cleavage.	-52							



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