





# PASMINGO EXPLORATION DIAMOND DRILL CORE LOG

HOLE No. **MD 2**

PROJECT: TULLAH EL 22/90

Graphic Scale 1: 200

Page 3 of 13

CORE RECOVERY				DESCRIPTION							CODES										
From m	Interval m	%	RQD	From m	Interval m	( incl. LITHOLOGY, STRUCTURE & ALTERATION )	Depth (m)	Graphic Lithology	Graphic Structure	MINERALISATION	LITHO	STRUCT	ALTR	MIN							
				<p><b>0 - 52.75m: AMYGDALOIDAL FELSIC LAVA</b></p> <p><b>Lithology:</b> Grey-green &amp; pink. Med gr. Massive. V hard. Comprises autobrecciated feldspar-phyric lava &amp; clastic lava breccia interflow zones (latter @ 0-3.5m, &amp; 6.9-8.9m). Amygdales of calcite or qtz, typically 2mm. <b>Alteration:</b> Weak oxidation to 20m. Strong sil-alb alt, weak chlor-ser (locally mod). Strong to intense sil-alb-chlor±mag alt 34-49m. <b>Veining:</b> Abund veins &amp; tiny veinlets of calcite. Some chlor veinlets. Scattered qtz-carb±chlor±alb veins to 100mm. <b>Structure:</b> Minor breaking along fract at low angle to LCA. Abund microfractures (calcite or chlor filled). Mod cleaved in &amp; around breccia zones &amp; at depth. Cleav: 50° LCA @ 8m, 22.5m (dips 89° to 109° MG), &amp; 32m (dips 89° to 098° MG); 55° LCA @ 43.2m. Basal contact abrupt &amp; sl irreg, with strong foliation 72° LCA. Lava ls microfractured adjacent to contact. <b>Mineralization:</b> Minor dissem py. Minor dissem mag 34-49m.</p>																	
				<p><b>52.75 - 64.25m: MAFIC DYKES IN VITRIC SILTSTONE</b></p> <p><b>Lithology:</b> Green-grey. Siltst: fi gr, massive, hard, siliceous, composed of fine volc glass. Mafics: basalt &amp; dolerite, green, fi-med gr, massive, uniform. Mafics: 53.9-57.9m (dolerite, uncleaved, with fi gr selvages), 58.05-58.7m (contacts 45° &amp; 60° LCA //cleav), 61.95-64.25m (contacts 38° &amp; 80° LCA). <b>Alteration:</b> Siltst: strong sil-alb or sil-chlor-ser alt. Mafics: mod chlor, weak carb-epidote alt. <b>Veining:</b> 56.6-57.2m: 10-20mm fibrous actinolite/tremolite vein //LCA. <b>Structure:</b> Mafic/siltst contacts gen sharp but irreg &amp; commonly marked by contorted bedding in adjacent siltst. Some contacts faulted. Siltst partly fract &amp; broken, mafics unbroken. All rocks weakly cleav (70° LCA @ 53m), except uncleaved dolerite @ 53.9-57.9m. Bedding: 61° LCA @ 59.5m (dips 80° to 282° MG). <b>Mineralization:</b> Minor dissem py in both siltst &amp; mafics, except:</p>																	

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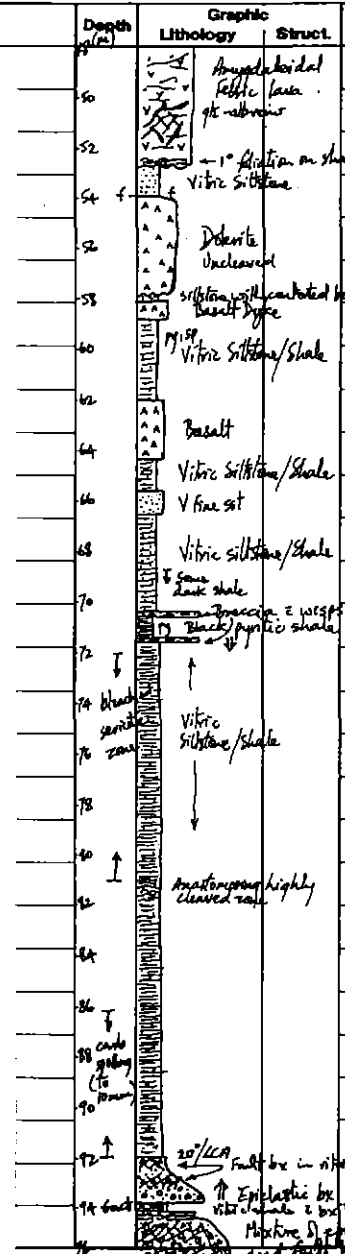
HOLE No. **MD 2**

PROJECT: **TULLAH EL 22/90**

Graphic Scale 1:200

Page 4 of 13

CORE RECOVERY				DESCRIPTION							CODES			
From m	Interval m	%	RQD	From m	Interval m	( Incl. LITHOLOGY, STRUCTURE & ALTERATION )	Depth (m)	Graphic Lithology	Struct.	MINERALISATION	LITHO	STRUCT	ALTH	MIN
				58.9-59.5m:		1% dissem & stringer py, minor stringer sp.	50	Amorphoidal felsic lava pt. relict						
				<b>64.25 - 91.9m: VITRIC SILTSTONE &amp; SHALE</b>			52							
				<b>Lithology:</b>		Buff & grey.	54							
						Rocks largely composed of fine volc glass.	56							
						Dark grey to black sl carbonaceous siltst/shale 68.8-71.4m.	58							
						Minor fine qtz-feld sst.	60							
						Thin beds of xyl-lithic breccia with strong stretching lineation & wispy texture, @ 70.45-70.6m & 71.4-71.55m (latter fines downhole).	62							
						<b>Alteration:</b> Mod carb alt (some small stretched nodules of carb in cleav). Restricted patches of strong sil+alb-bleaching.	64							
						Weak sericitisation, strongest in bleached zone 72-81m.	66							
						Sl chlor alt, esp in uppermost 3m.	68							
						<b>Veining:</b> Numerous carb veinlets. Minor qtz±carb veins that cut & post-date the carb veinlets.	70							
						<b>Structure:</b> Bedding: 70° LCA @ 65.7m & 71.3m; 72° LCA @ 79.7m.	72							
						Mod slatey cleav (rock fissile & mod broken 73-81m).	74							
						Cleav @ 91.2m: 70° LCA (dips 70° to 284° MG).	76							
						80.85-81.8m: strong zone of anastomosing cleav // bedding, 73° LCA.	78							
						Basal contact abrupt, 20° LCA (same sense as cleav).	80							
						<b>Mineralization:</b> 64.25-68.8m: 1% dissem & stringer py. Minor cp-po in carb veinlets.	82							
						68.8-70.6m: 1-2% dissem & veinlet py, trace cp.	84							
						70.6-71.4m: 3-5% dissem py in black shale & in carb veinlets.	86							
						71.4-91.9m: V minor dissem py. Minor sp-gn-cp in qtz-carb veins 84-86m.	88							
							90							
							92							
							94							
							96							
							98							
							100							
							102							
							104							
							106							



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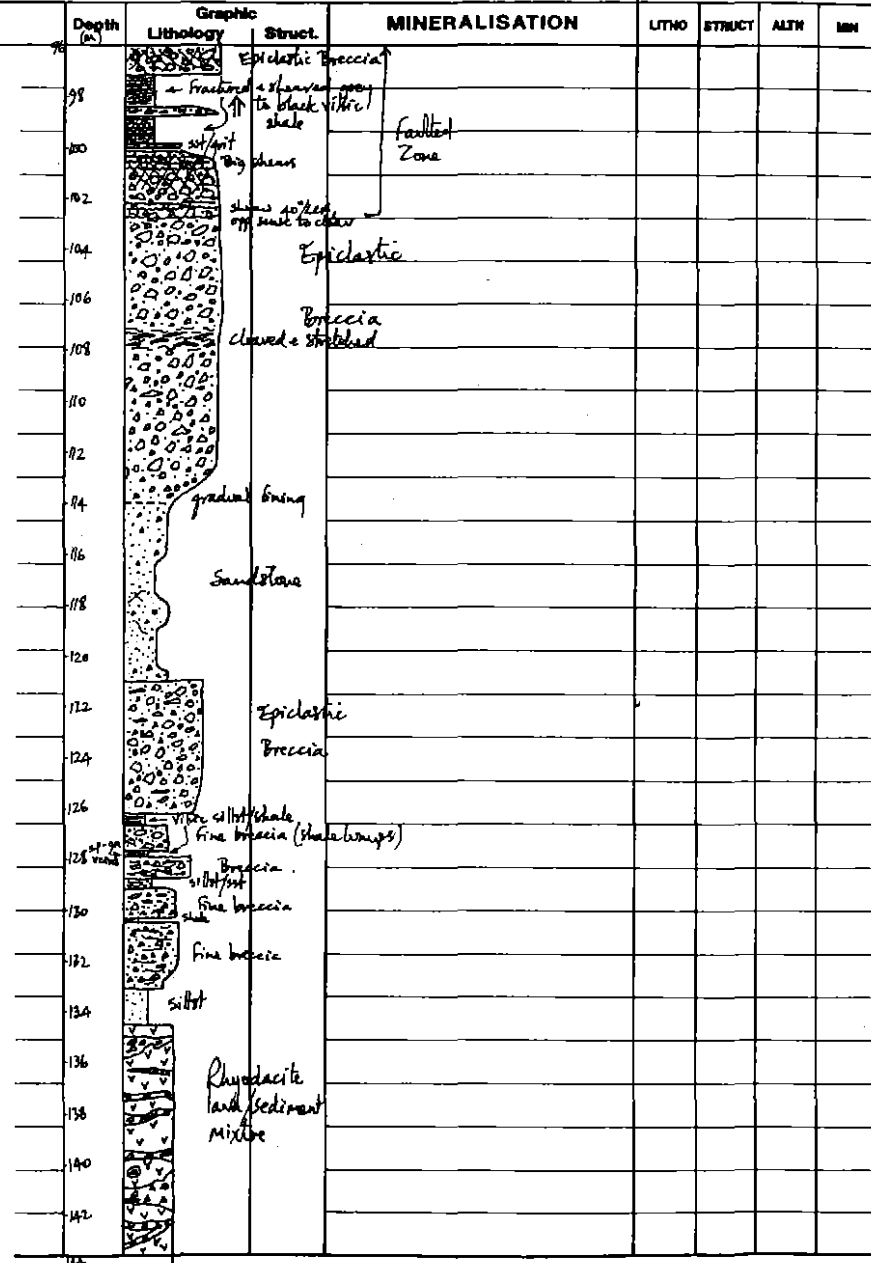
HOLE No. **MD2**

PROJECT: TULLAH EL 22/90

Graphic Scale 1:

Page 5 of 13

CORE RECOVERY				DESCRIPTION							CODES						
From m	Interval m	%	RCD	From m	Interval m	( incl. LITHOLOGY, STRUCTURE & ALTERATION )		Depth (m)	Graphic Lithology	Struct.	MINERALISATION	LITHO	STRUCT	ALTR	LEN		
						<p>Patchy sil-alb alt.</p> <p>Mod carb alt as tiny veinlets &amp; in bx matrix (esp in fault zone above 103m).</p> <p><b>Veining:</b> Irreg qtz+carb+chlor veins throughout (common in faulted zone, where some have been brecciated &amp; broken up).</p> <p><b>Structure:</b> Uphole-fining in uppermost 2.5m of unit (siltst/shale passing down into fine bx), &amp; in bx bed 98.4-98.8m.</p> <p><b>Bedding:</b> 72° LCA @ 99.1m;</p> <p>Large brittle fault 97-101m (badly broken), with assoc shearing, fracturing &amp; brecciation extending 91.9-103m. Most shears 45-75° LCA. Unit largely unbroken below 103m.</p> <p>Mod cleaved, locally strong below 103m (eg: 107-108m, 60° LCA).</p> <p>Basal contact gradational - bx fines down to sst.</p> <p><b>Mineralization:</b> V minor py. Trace gn in carb veinlets.</p>											
						<p><b>114.0 - 121.0m: CRYSTAL-LITHIC SANDSTONE</b></p> <p><b>Lithology:</b> Grey-green, med gr, massive, hard.</p> <p>Packed feld &amp; qtz xyl grains &amp; xyl frags, to 2mm (av 1mm).</p> <p>Subord lithic grains, occasionally as small clasts to +5mm.</p> <p>Some variation in grainsize Indicative of layering.</p> <p><b>Alteration:</b> Mod pervasive carb-sil alt, weak ser-chlor-alb.</p> <p><b>Veining:</b></p> <p><b>Structure:</b> Sl broken &amp; fractured.</p> <p>Mod cleaved (60° LCA @ 117m).</p> <p>Basal contact abrupt, 60° LCA (// cleav).</p> <p><b>Mineralization:</b> V minor dissem py. Trace sp-gn in stringers.</p>											
						<p><b>121.0 - 133.05m: FINE BRECCIA</b></p> <p><b>Lithology:</b> Grey &amp; pale grey-green.</p> <p>To 126.15m: bx the same as unit above 114m.</p> <p>Below vitric shale band @ 126.15-126.45m, bx is finer with cherty grey shaley matrix &amp; several beds of grey vitric siltst (largest 128.7-129.15m).</p> <p>Most bx frags below 126.5m comprise un lith vitric siltst, av &lt;5mm, max 40mm. Ripped-up lumps of black shale @ 126.5-127.1m.</p> <p><b>Alteration:</b> Mod pervasive carb alt. Mod chlor-ser, decreasing with depth. Patchy weak sil-alb-bleaching (esp of some bx frags).</p>											



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HOLE No. **MD 2**

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Graphic Scale 1: 200

Page 6 of 13

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	ALTN	MIN			
						<p><b>Veining:</b></p> <p><b>Structure:</b> Largely unbroken.</p> <p>Mod-strongly cleaved with stretching of frags.</p> <p>Cleav: 57° LCA @ 121.5m (dips 84° to 292° MG).</p> <p>Bedding: 71° LCA @ 126.3m &amp; 130.25m.</p> <p>Basal contact abrupt, 75° LCA.</p> <p><b>Mineralization:</b> 121-126m: V minor py. Trace sp-gn in carb veinlets.</p> <p>126-131m: 1-2% dissem py. Minor sp-gn-py±cp in carb veinlets (very common 127.7-127.9m).</p> <p>131-133.05m: Minor py, trace gn.</p>											
						<p><b>133.05 - 135.5m: SILTSTONE</b></p> <p><b>Lithology:</b> Pale grey. Vitric &amp; quartzose.</p> <p><b>Alteration:</b></p> <p><b>Veining:</b> Abund carb veinlets.</p> <p><b>Structure:</b> Bedding 70° LCA @ 134.3m.</p> <p>Basal contact abrupt, 65° LCA.</p> <p><b>Mineralization:</b> Minor dissem py. Trace sp in carb veinlets.</p>											
						<p><b>135.5 - 144.7m: RHYODACITE LAVA INTRUDING SEDIMENTS</b></p> <p><b>Lithology:</b> 60% lava, 40% seds.</p> <p>Pale grey-green. Hard.</p> <p>Lava &amp; seds gen complexly intermingled. Some quench-fracturing of lava on contacts with seds &amp; some peperitic bx in places.</p> <p>Lava massive, med gr, vitric, with abund feld phenos and lesser fine qtz phenos. Rare qtz amygdales.</p> <p>Seds incl grey siltst/shale, xyl sst, &amp; pumiceous bx.</p> <p><b>Alteration:</b> Lava strongly sillif. Weak ser-chlor alt.</p> <p><b>Veining:</b> Abund carb microveinlets. Scattered qtz-carb±chlor veins.</p> <p><b>Structure:</b> Lava highly microfractured with no obvious cleav.</p> <p>Some cleav developed in sed zones.</p> <p>Basal contact abrupt &amp; irreg.</p> <p><b>Mineralization:</b> Minor dissem py.</p>											
							46	Lava Seds									
							48	Lava (block?) shaped mafic dyke									
							50	shaped mafic dyke									
							52	shaped mafic dyke									
							54	breccia									
							56	shaped, cleaved, veined, & mixed-in mafic dyke material									
							58										
							60	Feldspar-crystal sandstone									
							62	100mm mafic dyke									
							64										
							66	shaded, irregular mafic dyke									
							68	crystal sandstone									
							70										
							72										
							74	cleaved feldspar-phytic vitric volcanic (probably crystal sst)									
							76										
							78										
							80										
							82	cleaved vitric sst									
							84	siltstone/sandstone/shale Mafic dyke									
							86	mainly shale									
							88	qtz-feld xyl sst									
							90	siltstone									
							92	sandstone									
							94	siltstone/sandstone									

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**PASMINCO EXPLORATION  
DIAMOND DRILL CORE LOG**

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Page 7 of 13

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				144.7	156.0	<b>FELSIC LAVA BRECCIA</b>								
						<b>Lithology:</b> Pink & pale green. Hard.								
						Monomict bx, made up of quench-fractured frags (to 100mm) of felsic lava (identical to unit above), in strongly-foliated vitric matrix containing feld & qtz xyls, pumice & minor grey silty to shaley material.								
						Evident most lava frags were hot when they contacted the sed material.								
						Some lava frags highly qtz-amygdaloidal.								
						147.4-148.35m: fractured lava (large block?).								
						Several mafic dykes to 600mm.								
						120mm band of grey vitric shale @ 147.35m, 75° LCA.								
						<b>Alteration:</b> Strong sil-alb alt (esp of lava frags). Mod ser & weak chlor-carb alt.								
						Mafic dykes strongly co-ser±fuchsite alt.								
						<b>Veining:</b> Abund carb microveinlets. Several qtz-carb veins.								
						<b>Structure:</b> Broken 147.1-149m by shears //cleav. Otherwise unbroken.								
						Bx matrix and mafic dykes (but not lava frags) affected by very strong cleavage/shearing fabric (both qtz & feld xyls stretched & deformed, and some mafic dykes dismembered).								
						Zones of microfracturing.								
						Cleav: 55° LCA @ 151.1m (dips 85° to 292° MG).								
						Basal contact difficult to distinguish - poss structure (strong shearing).								
						<b>Mineralization:</b> Minor dissem py. Trace sp-gn-aspy in qtz veins.								
						5% py & 1% sp-gn in 120mm grey shale band @ 147.35m.								
				156.0	164.8	<b>FELDSPAR-CRYSTAL SANDSTONE</b>								
						<b>Lithology:</b> Pale pink. Granular.								
						Abund feld xyls, often fragmented or stretched into augen shapes.								
						Minor small qtz phenos. Rare small frags of felsic lava above 161m.								
						All in silty siliceous & sericitic matrix.								
						At 161.9m, 100mm carb-fuc alt mafic dyke 60° LCA (// cleav).								
						<b>Alteration:</b> Mod alb-ser(±sil) alt (strong at top, decreasing with depth).								
						<b>Veining:</b> Common qtz-dolomite veinlets at high angle to cleav, with some veinlets fractured & broken up.								
						<b>Structure:</b> Grainsize decreasing with depth.								
						Strongly cleaved (sl weaker at depth). Unbroken.								
						Cleav: 60° LCA @ 158m; 65° LCA @ 164m.								
						Basal contact abrupt - marked by irreg 50mm carb-fuc alt mafic dyke & strong shearing.								

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Page 8 of 13

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From m	Interval m	%	ROD	From m	Interval m	( incl. LITHOLOGY, STRUCTURE & ALTERATION )	Depth	Graphic Lithology	Struct.	MINERALISATION	LITHO	STRUCT	ALTN	MM
						Mineralization: Minor py, gn, sp, aspy, mainly in qtz-dol veinlets.								
						<b>164.8 - 171.3m: FELDSPAR-QUARTZ CRYSTAL SANDSTONE</b>								
						<b>Lithology:</b> Grey. Med gr. Massive. Hard. V even-grained.								
						Densely-packed abraded feld & qtz xyl grains (av 1mm), in subord (washed) sericite-chlorite-silica matrix that incl small amount of carbonaceous shaley material. Rare small frags of black shale.								
						Sheared vitric siltstone 164.8-165.1m, & black shale 165.1-165.4m.								
						<b>Alteration:</b> Weak sil-ser-chlor alt (locally mod).								
						<b>Veining:</b> Qtz-carb (some dolomite) veins throughout.								
						<b>Structure:</b> Largely unbroken.								
						Bedding @ 165.3m, 70° LCA (dips 75° to 285° MG).								
						Mod cleaved // bedding. Cleav much weaker than in units above (& below).								
						Basal contact abrupt, 65° LCA (// cleav).								
						<b>Mineralization:</b> 164.8-165.4m: 2% dissemin py. Trace gn-sp.								
						165.4-171.3m: 1% py. Minor sp-gn in qtz-carb veins. 35x8mm nodule of massive py @ 167.6m.								
						Minor leucoxene throughout.								
						<b>171.3 - 180.7m: DEFORMED &amp; ALTERED ZONE IN FELDSPAR-PHYRIC VITRIC VOLCANIC</b>								
						<b>Lithology:</b> Pale pink & khaki. Med gr. Massive. Hard.								
						Unidentifiable, strongly sheared volc with deformed feldspars (commonly augen-shaped), in vitric matrix.								
						At base deformation decreases & evident here rock is vitric feld-xyl sst.								
						150mm carb-fuchsite alt mafic dyke @ 171.5m, 70° LCA (// cleav).								
						<b>Alteration:</b> Mod sil-alb-ser-bleaching alt. Weak chlor alt.								
						<b>Veining:</b> Qtz-carb-chlor veins.								
						<b>Structure:</b> Unbroken.								
						V strong cleavage/shearing fabric (70° LCA), decreasing markedly at base.								
						Basal contact abrupt, along cleav @ 68° LCA.								
						<b>Mineralization:</b> Minor py.								

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