



### DRILL HOLE RECORD

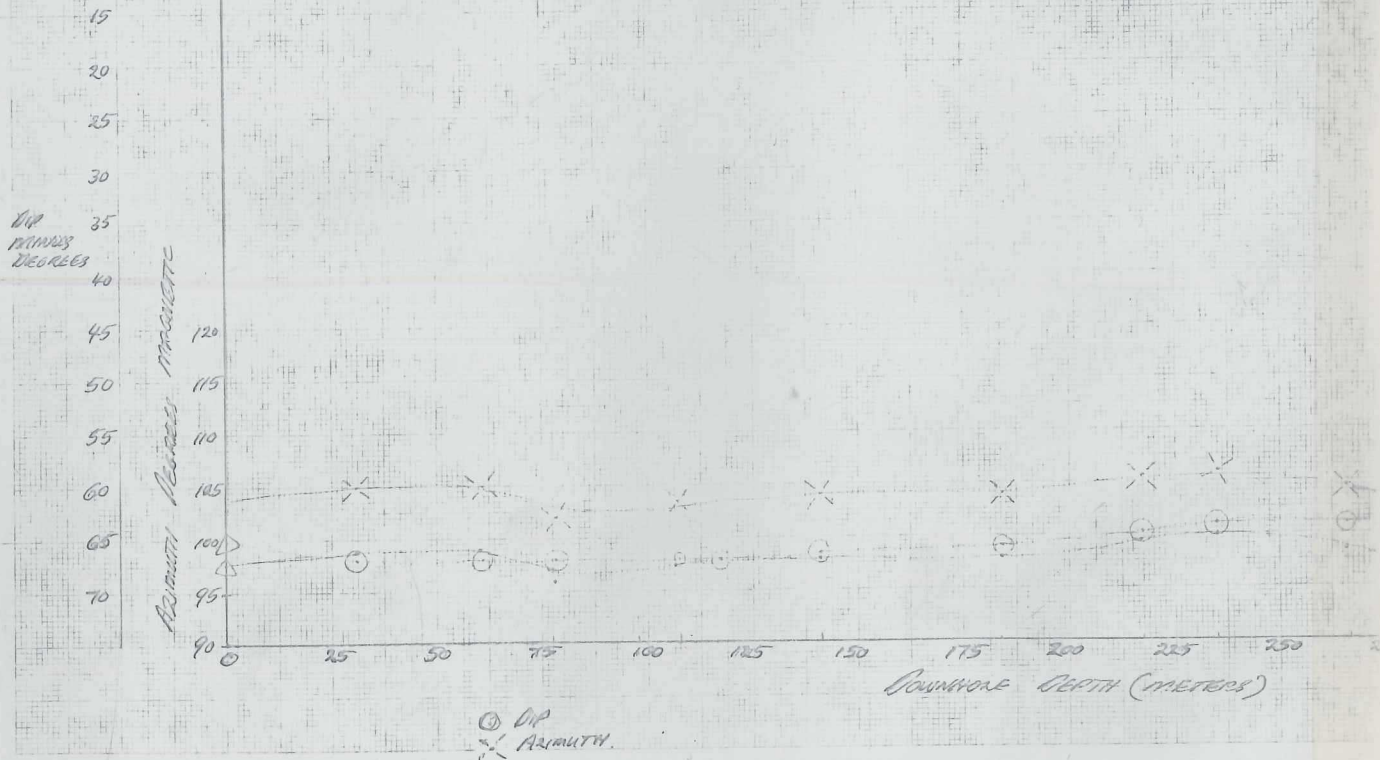
Location Que River Property Mineral Lease 20/75 District Tasmania Australia Bearing (M) 97° 58' Hole No QR97  
 Commenced 28.7.76 Completed 29.8.76 % Recovery 95 Grid bearing (M) 8° 45' Date 2.9.76  
 Objective To test beneath P.Q system 7700 N, 250 RL. Core size HQ to 63.0, HQ to 342.0m BQ to 781.4m L.O.H. Logged C.H. Young  
 Co-ordinates 7676.3 N, 4751.8 E Dip 65° 10' Alt./R.L. 697.49

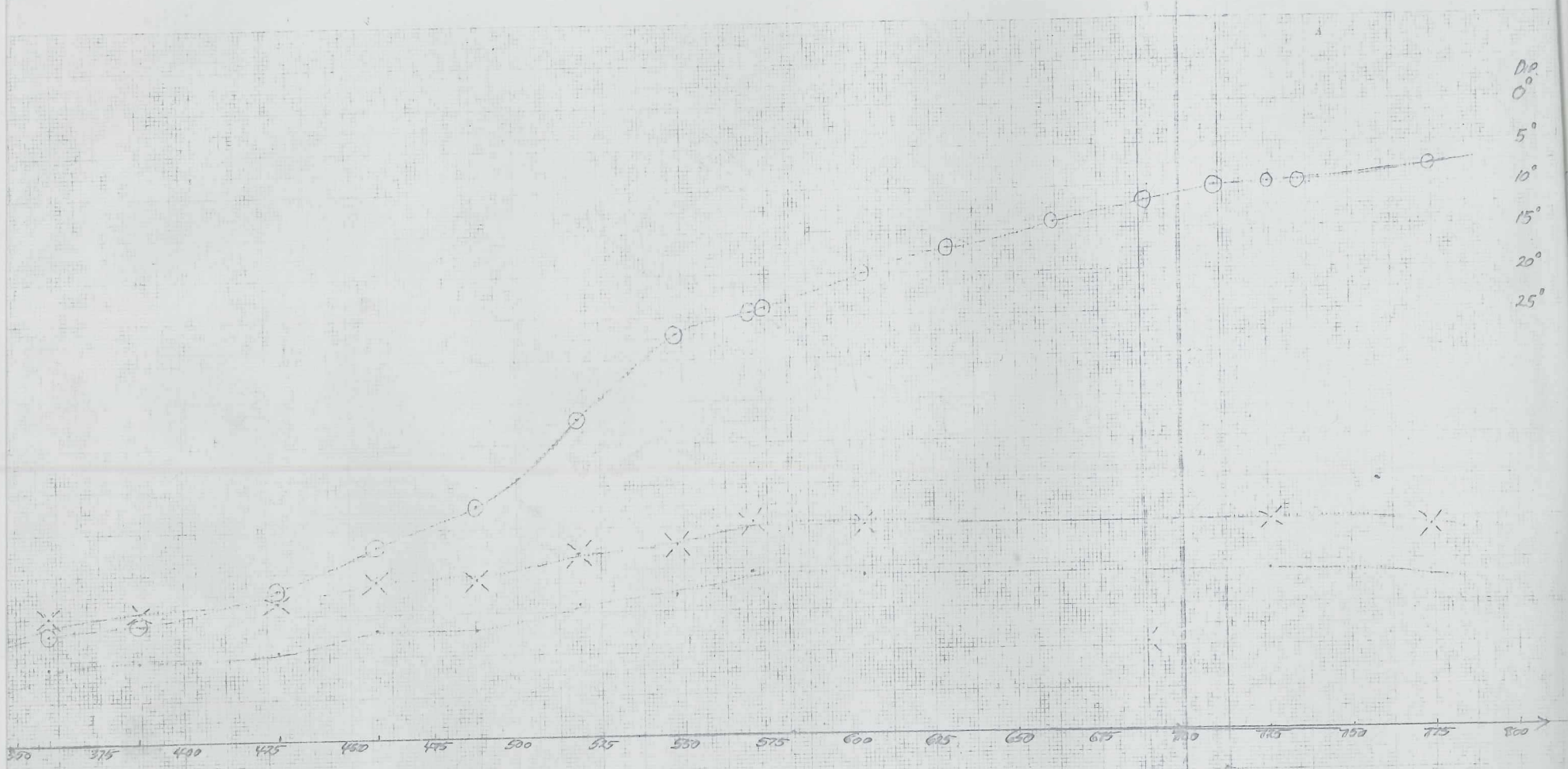
SURVEY DATA				GRAPH DERIVED DATA			CALCULATED CO-ORDINATES			REMARKS
DEPTH	DIP	BEARING(M)	INSTRUMENT TYPE	DEPTH	DIP	BEARING(M)	NORTHING	EASTING	ALTITUDE	
0	65°	097	THEODOLITE and 3EVNT-011	0	65.25	98.0	7676.30	4751.80	697.49	Hole commenced by reaming casing off QR95 at 63.5m.
0	65° 10'	077° 58'	SURVEYORS PICK UP.	25	66.5	99.0	7676.35	4762.02	664.67	
31	67	105	NEW EASTMAN	50	67.0	99.0	7676.30	4771.89	641.71	
61	67	105	" "	75	67.0	97.0	7676.43	4781.65	618.09	
73	67	102	" "	100	67.0	99.0	7676.73	4791.42	595.68	
102	67	103.5	" "	125	67.0	98.0	7676.94	4801.18	572.67	
116	67	104	" "	150	66.5	98.0	7677.07	4811.00	549.70	
141	66.5	104	" "	175	66.0	98.0	7677.20	4821.12	526.83	
184	66	104	" "	200	65.5	98.5	7677.29	4831.38	504.02	
217	64.75	105.5	" "	225	64.5	99.5	7677.25	4841.95	481.36	
235	64	106	" "	250	64.0	99.5	7677.10	4852.81	458.85	
235	64	106	OXD EASTMAN	275	64.0	98.0	7677.10	4863.77	436.38	
266	64	104.5	" "	300	64.0	96.0	7677.44	4874.72	413.91	
301	64	102	" "	325	64.0	95.0	7678.06	4885.66	391.44	
330	64	101	" "	350	62.5	97.0	7678.59	4896.90	369.12	
360	62	103	" "	375	61.5	99.5	7678.69	4908.63	347.04	
387	61	105.5	" "	400	60.0	99.5	7698.23	4920.34	325.23	
428	57	106.5	" "	425	57.5	100.0	7698.30	4933.81	303.86	
488	52	107	" "	450	53.5	102.0	7697.74	4947.93	283.27	
488	46.75	109	" "	475	49.5	103.0	7676.71	4962.47	263.72	
518	37	112	" "	500	44.25	104.0	7675.29	4980.48	245.49	
548	27.5	113	" "	525	34.5	106.0	7673.17	4999.61	229.69	
571	24.5	115.5	" "	550	26.5	107.5	7670.17	5020.89	217.03	
575	24.0	N/R	" "	575	24.0	109.0	7686.74	5043.18	206.37	
604	20	115	" "	600	20.75	109.0	7682.32	5065.92	196.86	
620	17	N/R	" "	625	17.5	109.0	7678.12	5089.16	188.67	
662	14.25	N/R	" "	650	15.0	109.0	7673.85	5112.77	181.63	



DR 97 EASTMAN SINGLE SHOT DOWNHOLE CAMERA SURVEYS

COMMENCED: 28/7/76  
 COMPLETED: 28/8/76  
 DEPTH: 781.40 m







# DIAMOND DRILL LOG

Hole No **QR97** Page No **1**

Feature : Bedding Shearing   
 Foliation Fault   
 Fragment - size & shape Vein c carbonate  
 q quartz

Mineralization : Trace 1-5%  
 Common 5-15%  
 Abundant 15-60%  
 Massive >60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	55								
	60								
	63								
	68.5								
0-6	70	<p><i>This hole has been drilled from QR95 collar, running off QR95 at 68.5m.</i></p> <p><i>Ref QR95 for geology above 68.5m.</i></p> <p><i>RP &gt; DTL</i> Green-buff carbonated locally chloritised feldspar quartz crystalline tuff - agglomerate. Fragments are irregular in outline - elongated in direction of foliation 25-30° to C.A. range from 0.5mm to 6cm. They consist predominantly of feldspar - porphyry lava, weakly chloritised and green in colour.</p>							
3-2	75								Pyrite 217 as discrete disseminations of very fine subhedral to euhedral crystals



# DIAMOND DRILL LOG

Hole No **DR97**

Page No **2**

Feature : Bedding Shearing   
 Foliation Fault **F**  
 Fragment-size & shape Vein **c** carbonate  
**q** quartz

Mineralization : Trace 1-5%  
 Common 5-15%  
 Abundant 15-60%  
 Massive >60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
3-1		Other fragments of buff coloured feldspar porphyry lava are generally <del>less</del> angular and larger in size. Feldspar crystals are represented by aggregates of carbonate and sericite/chlorite up to 3mm.							
3-0	80	80.0m Fracture sub parallel to c.a.							
		The matrix is "granular" sugary in texture due to recrystallized quartz.							
26									
	85	<sup>OTL</sup> Green buff carbonated locally chlorite lithic tuff agglomerate. <u>locally tuff-lava.</u> Lithic fragments to 5cm are often "shredded" in appearance reflecting local shearing.							
3-1		They are composed of feldspar porphyry lava. Feldspar phenocrysts are characteristically altered to pale green, green sericite, chlorite.							
3-0	90	87.8-93.0 white carbonate replaces feldspar. Below 87.8m the rock appears to be tuff-lava - lava breccia.							
		lithic fragments are not common.							
3-1	95	Below 93.3 green sericite/chlorite alteration of feldspar is once again conspicuous.							
3-1									
	100	99.6m Fracture at 30° to c.a. locally iron stained.							

Pipit < 1% above



# DIAMOND DRILL LOG

Hole No QR 97 Page No 3

Feature : Bedding Shearing   
 Foliation Fault   
 Fragment-size & shape Vein carbonate  
 quartz

Mineralization : Trace 1-5%  
 Common 5-15%  
 Abundant 15-60%  
 Massive >60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
		DTL on above							Pinite $\frac{1}{2}$ on above
3-1	102.0	Below 102m the rock is generally pink in colour. Carbonated locally sericitized feldspar porphyry lava.							
3-1	105	Locally pale green where sericite alteration is increased. Feldspar phenocrysts are altered to pale green - green, sericite chlorite - 14 to 3mm.							
3-1	110	The groundmass is fine grained quartz - feldspar.							
1-5									
3-1	115								
3-1									
3-1	120								
3-1	125	Below 122m green alteration of feldspar is no longer common. White carbonate and pale grey green sericite replace feldspar phenocrysts.							





# DIAMOND DRILL LOG

Hole No **QR 97** Page No **5**

Feature : Bedding Shearing   
 Foliation Fault   
 Fragment-size & shape Vein c carbonate  
 q quartz

Mineralization : Trace 1-5%  
 Common 5-15%  
 Abundant 15-60%  
 Massive >60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
		DTL m above.							Pyrite $\approx 1/2$ as above
3-1		Massive Pink - buff. Feldspar porphyry tuff - lava. Small fragments to 1 cm have been noted.							
3-1	155	Feldspar to 4mm is commonly replaced by carbonate and sericite.							
3-0		Below 156.0m The rock is no longer Pink in color - Now buff							
2-8	160	160.0 - 161.8 Brecciated - fragments cemented with carbonate - colored red-brown - possibly hematite.							
3-1	165								
3-05									
3-1	170								
		Below 172.0 m. Feldspar is commonly replaced by green - sericite/chlorite							
3-1		Foliation 60° to core axis.							
		Occasional fragments to 20 cm have been noted							
	175								







# DIAMOND DRILL LOG

Hole No **QR97** Page No **8**

Feature : Bedding Shearing   
 Foliation Fault   
 Fragment-size & shape Vein c carbonate  
 q quartz

Mineralization : Trace 1-5%  
 Common 5-15%  
 Abundant 15-60%  
 Massive >60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
		AP or above							Pegite < 1% as above
	226.4	CONTACT 25° CA							
2.7		Green carbonated locally chloritized feldspar crystal lithic tuff agglomerate							
		Lithic fragments to 6cm are irregular in outline consisting of green chloritic feldspar porphyry lava with white aggregates of carbonate after feldspar.							
2.3	230								
3.1		The matrix is grey-green in colour and siliceous.							
	235								
3.1									
0.5									
3.0	240								
	240.4	GRADATIONAL CONTACT.							
		Green-grey carbonated locally chloritic locally vacuolated feldspar porphyry lava.							
3.0		White aggregates of carbonate - elongate in outline are thought to represent filled vacuoles.							
	245	Smaller aggregates of carbonate and sericite/chlorite to 3mm replace feldspar phenocrysts							
3.0		The groundmass is fine grained quartz - feldspathic.							
		Minor carbonate inclusions are common to 5mm.							
3.0	249.2	Green carbonated locally chloritized							
	250	249.2 - 251.6 m.y. in quartz carbonate veins							






# DIAMOND DRILL LOG


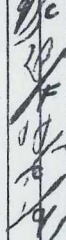
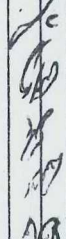
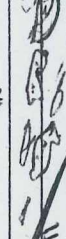
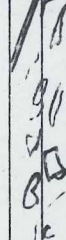
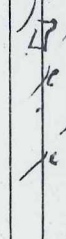


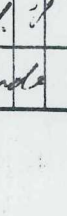
Hole No **QR 97**

Page No 9

Feature : Bedding   
 Foliation   
 Fragment - size & shape 

Shearing   
 Fault   
 Vein  c carbonate  
 q quartz

Mineralization : Trace 1-5%  
 Common 5-15%  
 Abundant 15-60%  
 Massive >60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
		AP or above							Reprints 2/8 above.
	2.0	Feldspar crystal lithic tuff agglomerate or lava breccia.							
	3.1	Green chloritic fragments to 6cm one irregular in outline and one composed of feldspar crystal (or porphyry) tuff.							
	255	255.5 - 260.8.							
	3.1	Broken core some frag. Fault and fractures sub parallel to core axis.							
	2.2	The groundmass is of similar composition and texture as the fragments.							
	260	Below 260.8 mm carbonate veins to 5mm are common.							
	1.6								
	3.0								
	265								
	3.0								
	269.0								
	3.0	<sup>DTL &gt; AP</sup> Green - pink carbonated locally chloritoid feldspar crystal tuff-lava. Feldspar crystals are commonly replaced by carbonate in aggregate to 3mm. - occasionally fresh when attracted. The groundmass is fine grained quartz-feldspathic.							
	3.0	Flow layering 50% to 100 cm has been noted.							
	274.4								
	275	AP Green carbonated feldspar, hornblende							



DIAMOND DRILL LOG

Feature : Bedding Shearing   
 Foliation Fault  $F$   
 Fragment - size & shape Vein  $c$  carbonate  
 $q$  quartz

Mineralization : Trace 1-5%  
 Common 5-15%  
 Abundant 15-60%  
 Massive >60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	3-0	crystal lithic buff agglomerate. Feldspar crystals are represented by aggregates of white carbonate to 3mm. Hornblende by smaller - elongated aggregates of chlorite.							Pyrite < 1% as above.
	3-0	Lithic fragments to be seen are composed of feldspar crystal tuff or lava similar in composition to the matrix.							
	3-0	Carbonate alteration is common in part giving the rock a mottled appearance.							
	3-0	Minor epidote has been noted as aggregate and associated with quartz carbonate veins.							
	2-7	287.3 - 290.7 m Chlorite alteration is common. 288.0 - 290.7 m Fault at 0-5° to L.A.							
	3-0								
	293.4	CONTACT 25° CA.							
	3-1	DTAARC Green - buff carbonated and silicified (local chlorite) vesicular feldspar porphyry lava.							
	0-5	Feldspar crystals are not abundant, generally euhedral in outline to 3mm replaced by carbonate and sericite.							295.0 Pyrite < 1% as above rare Sphalerite and Galena recrystallized in vesicles.
	2-4	Vesicles are local - sub rounded up to 5mm in diameter commonly filled with silica, carbonate and occasionally Galena and sphalerite							296.7 Pyrite < 1% as above.
	3-0								







# DIAMOND DRILL LOG

Hole No GR 97 Page No 13

Feature : Bedding Shearing   
 Foliation Fault   
 Fragment - size & shape Vein c carbonate  
 q quartz

Mineralization : Trace 1-5%  
 Common 5-15%  
 Abundant 15-60%  
 Massive >60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	5.0	Small aggregates of Chlorite occasionally euhedral in outline are thought to replace hornblende. Fragments are irregular in outline - and are of similar composition and texture as the groundmass. Fragment outlines are often obscure.							Pyrite $\approx 1\%$ or above.
	4.5								
	4.4								
	3.8	Below 362m. The rock is generally porphyritic lava.							
	3.8								
	3.8								
	2.3	Chlorite alteration zone Dark green finely chloritized.							
	1.5								
	375	Green carbonated feldspars, hornblende porphyry lava as above.							











# DIAMOND DRILL LOG

Hole No **9R 97** Page No **18**

Feature : Bedding Shearing   
 Foliation Fault   
 Fragment-size & shape Vein carbonate  
 quartz

Mineralization : Trace 1-5%  
 Common 5-15%  
 Abundant 15-60%  
 Massive >60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
		AP as above. green due to chlorite alteration.							Pyrite < 1% as above
	3.8								
	4.8	480 0.15 483.4 485 3.1 489.1 490 4.9 495 495.8 4.1 500	Fault zone. Prg, 80% sheared and broken core, 55° to C.A. Carbonate alteration and veining is common. The rock is pale green in colour.						
		FAULT CONTACT							
		Prg Grey-buff carbonated feldspar crystal lithic tuff agglomerate. Feldspar crystals are small < 3mm generally replaced by sericite and carbonate. Fragments are generally obscured by carbonate. Below 483m the rock is buff in colour, "bleached" due to carbonate alteration.							489.1 Pyrite 27-37% as disseminations and aggregates. 493 Pyrite 37-57% locally 10% as disseminations, aggregates and irregular veins.
		Fine lithic tuff grading to coarse tuff and tuff agglomerate by 497.4m Grey carbonated locally sericitized. Coarse sigmoidal alignment - bedding? at 60° C.A. Below 497.4m Slaty - foliation 50° - 60° to core axis							495.2 Pyrite 37-56% as above.





# DIAMOND DRILL LOG

Feature : Bedding Shearing   
 Foliation Fault carbonate  
 Fragment - size & shape Vein quartz

Mineralization : Trace 1-5%  
 Common 5-15%  
 Abundant 15-60%  
 Massive >60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
4-9	530	Feldspar aggregates are represented by pale green sericite to 3mm. The groundmass is fine grained buff in colour quartzo-feldspathic. Minor fragmental bands are generally of mixed fragment types. Occasional sub-rounded to elongate aggregates of white carbonate to 5mm may be amygdalae.							Pyrite 3% locally 5% as above.
4-9	535								
4-9	540	538-0m Bedding - flow layering? 30°-50° C.A. parallel to foliation.							
4-9	545								
4-4	550	The rock appears to be an ash-flow crystal (feldspar) stuff - with minor common bands of lithic tuff. Below 549.0m The rock remains carbonated locally sericitized feldspar-crystal lithic tuff. However							





# DIAMOND DRILL LOG

Hole No **QR 97** Page No 22

Feature : Bedding Shearing   
 Foliation Fault carbonate  
 Fragment-size & shape Vein quartz

Mineralization : Trace 1-5%  
 Common 5-15%  
 Abundant 15-60%  
 Massive >60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
		P.P. as above							
1-2	576.7							576.7	Pyrite 3% locally 5% as above.
4-9	580	Grey sericitized and carbonated lithic tuff / coarse lithic tuff. Locally feldspar crystalline lithic tuff. Lithic fragments are angular to subrounded in matrix generally < 2cm. They consist of grey altered tuff, sericitized trachyte? recrystallized chert and buff coloured feldspar crystalline tuff or lava. Elongated in direction of foliation at 55° C.A. Feldspar crystals are represented by aggregates of pale green sericite to 3mm. The matrix is light grey and siliceous. Locally blue grey.							Pyrite 5% locally 7% as disseminations, aggregates and irregular veins of fine subhedral to euhedral crystals.
3-1	585								
4-9	590	There are areas of buff to grey coloured feldspar crystalline tuff. Weakly sericitized and sheared at 50° to C.A.							
4-9	592.4	<u>Fault zone</u> Pyg. Sheared and broken core. 65° to C.A.						592.4	See Sp. 576m 37Pg 10% as disseminations and aggregates
	593.3	Sericite alteration is common near the fault zone.							
	595								
	595.9							595.9	Pyrite 3% - 5% as above.
5-0	600	Grey carbonated and sericitized feldspar crystalline lithic tuff agglomeration. Similar to the rock above 595.9m. Fragments vary from 0.5cm to 5cm. The rock is light grey due to carbonate alteration.							





# DIAMOND DRILL LOG

Feature : Bedding Shearing   
 Foliation Fault   
 Fragment-size & shape Vein c carbonate  
 q quartz

Mineralization : Trace 1-5%  
 Common 5-15%  
 Abundant 15-60%  
 Massive >60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
		PyP. > DTL as above.							Pyrite 37-57 as above
5.0	630.0	Grey-buff carbonated and sericitized feldspar crystal lithic buff agglomerate. Feldspar crystals are not abundant, represented by aggregates of pale green sericite to 3mm. Occasionally cuboidal in outline.						630.0	20 cm Pyrite 15% Pyrite 37-57 as above.
4.0	635	Lithic fragments are irregular to angular in outline to 5cm, they consist of buff feldspar crystal to-lava and sericitized trachyte. Carbonate alteration has partly obscured fragment outlines.							
5.0	640	Minor chlorite alteration has been noted. The matrix is fine grained, grey (blue) and 'asby'.							
5.0		Fragment alignment, foliation at 60° to CA.							
	645	Occasional irregular masses (to 5cm) of grey silica may represent deformed chert horizons?							
4.9		There is a crude grading exhibited in this sequence, at 646.5m a buff band has been noted. Bedded approximately 60° CA.							
	650	Below 647m minor chloritization of fragments							









DIAMOND DRILL LOG

Hole No **QR97** Page No 28

Feature : Bedding Shearing   
 Foliation Fault carbonate  
 Fragment - size & shape Vein quartz

Mineralization : Trace 1-5%  
 Common 5-15%  
 Abundant 15-60%  
 Massive >60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
4-9	727.6	Grey - buff carbonated locally sericitoid feldspar porphyry - vesicular buff-lava - as above.							Pyrite 3% as above
	729	<u>Fault zone</u> Sheared and disrupted Muscovite frag.							Pyrite 10% as in irregular vein
3-0	730	The core is locally sheared and disrupted down to 734.8 m. Locally lava breccia.							Py 3% as above.
2-7									
2-4	735								
	735.5								734.8 - 10cm Py 15 Sph 10 Gm 5.
2-5		Green - grey locally buff chloritoid, carbonated feldspar crystal, lithic tuff/tuff agglomerate.							735.5 3cm Py 10% Sph 3% Gm 1-2%
		The rock is locally chloritic, Feldspar crystals are represented by aggregates of carbonate, albite? and locally sericite/chlorite.							736.1 30cm Vein. Pyrite 30%, Sph 10% - 15%, Gm 3% - 5% in a chloritic gangue.
2-6	740	Lithic fragments are irregular in outline where not obscured by alteration. They appear to consist of feldspar porphyry lava, occasionally vesicular.							734.8 - 748.0. Pyrite 5% Fine Sph, Gm.
0-2		They are commonly green in colour due to chlorite alteration.							734.8 - 748.0 m Muscovite veins of disseminated pyrite, sphalerite and galena and muscovite chloritic alteration zones.
3-1	745	The matrix is fine grained quartz - feldspathic.							743.5cm Py 10% in a chlorite gangue.
3-0	750	Below 748.0 m the rock is locally							748.0 Pyrite 3% as disseminations, aggregates and irregular veins.



# DIAMOND DRILL LOG

Hole No **PR 97** Page No **29**

Feature : Bedding Shearing   
 Foliation Fault **F**  
 Fragment - size & shape Vein **c** carbonate  
**q** quartz

Mineralization : Trace 1-5%  
 Common 5-15%  
 Abundant 15-60%  
 Massive >60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
		<i>Chlorite - grey green in colour</i>							<i>Pyrite 3% as above</i>
	751.3								<i>5 cm Py 10 Sph 5, Gr 3 Sp 2.3. with carbonate vein.</i>
	755								
	760								
	765								
	770	<i>Crude foliation or fragment alignment 70° to core axis</i>							
	774.0	<i>Below 769.3m the rock is locally chlorite. Minor alkali alteration zones to 30cm have been noted.</i>							
	775	<i>Buff locally grey green feldspar porphyry lava locally lava</i>							<i>4 cm Py 10% Sp 1.5% Gr 3% with carbonate vein.</i>

BROWN L.S.P. CORE






# DIAMOND DRILL LOG



Hole No **QR 97**

Page No **30**

Feature : Bedding   
 Foliation   
 Fragment - size & shape 

Shearing   
 Fault   
 Vein  carbonate  
 quartz

Mineralization : Trace 1-5%  
 Common 5-15%  
 Abundant 15-60%  
 Massive >60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
		<i>breccia.</i>							<i>Repts 37 as above.</i>
	3.0	<i>Feldspar phenocrysts to 3mm are represented by aggregates of pale green feldspar, often subhedral in shape.</i>							
	3.0	<i>The groundmass is fine grained quartzo-feldspathic.</i>							
		<i>781 4 E.O.H.</i>							