A (1457 (a)

QUE RIVER MINING PTY. LTD.

DRILL HOLE RECORD

Logged SGF.

Location 9100 Costean Co ordinates N 9107.3 E 5499.6 R.L. 668.49

Commenced 2/2/84 Completed 8/2/84 % Recovery Bearing 270°.5°

Objective D.I. UTEM Anomaly Core size HQ/NQ Dip -45.5° HOLE No. DA-2

0-7.5 Tricone.
7.5-83 HQ, 83-251.8 NQ

SURVEY DATA				GRAPH DERIVED DATA			CALCULATED CO ORDINATES			REMARKS
DEPTH	DIP	BEARING (G)	INSTRUMENT TYPE	DEPTH	DIP	BEARING (G)	NORTHING	EASTING	R.L.	
0	-45	270°	THEODOLITE	0	-45.5	270.5	9107.3	5499.6	668.49	
15	-46.3	269	EASTMAN CAMERA	25	-46.8	270.5	9107.45	5482.20	650.54	
48	-47.5	269	"	50	-47.5	270.5	9107.6	5465.2	632.21	
76	-48°	268.5°	"	75	-48.0	270	9107.67	5448.39	613.71	
116	-46.5	268.5	"	100	-47.2	270	9107.67	5431.54	595.24	
146	-46.0	268.5	"	125	-46.1	270	9107.67	5414.38	577.07	
190	-45	270°	"	150	-46	270	9107.67	5397.03	559.07	
225	-45°	271.0	"	175	-45.5	270.8	9107.79	5379.58	541.16	
250	-43.2	271.0	"	200	-44.9	272	9108.22	5361.97	523.42	
				225	-45	272.5	9108.92	5344.29	505.76	
				250	-43.2	273.5	9109.86	5326.37	488.36	
				251.8	-43	273.7	9109.94	5325.06	487.13	

QUE RIVER MINING PTY. LTD.

DIAMOND DRILL LOG

HOLE No. DA-2 Page No. 1 of 11

LOGGED BY SGF

DATE

MINERALIZATION

TRACE 1-5%
COMMON 5-15%
ABUNDANT 15-60%
MASSIVE >60%

A 04457 (b)

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
		TRICONED							
	7.5							7.5	
1.0		Pale grey to buff sericite altered Dacite.							
0	8.5	Weathered to 11.6 m, pyrite brecciation							
1.3		is common, with numerous vuggy quartz							
13	9.8	veins, minor illite Hydromuscovite alteration,							
.9									
0	10.7	unit is very strongly sericite altered							
.3									
C/L .6m 0	11.6								
.9									
C/L .4m 0	12.5								
1.8									
18	14.3								
1.0									
30	15.3								
C/L .7m .3									
11	16.3							16.3	
.6		16.3-18.5 large white vuggy quartz vein							
0	16.9								
C/L .7m .9									
20									
0 .5	18.5							18.5	
	19.0								
1.1		very intense sericite alteration of							
52		the Dacite.							
20	20.1								
0									
0 .4	22.1							22.1	
10	22.5	Dark grey - buff sericite altered Dacite							Py 5-10% very fine
.7		breccia alteration pervades angular fragments,							gives the unit a dark
0	23.30	initially fragments are small <0.5 cm							grey coloration
1.6		increasing to 10 cm							
70	24.9								

QUE RIVER MINING PTY. LTD.

DIAMOND DRILL LOG

HOLE No. DA-2 Page No. 2 of 4

LOGGED BY .....

DATE .....

MINERALIZATION

TRACE 1-5%
COMMON 5-15%
ABUNDANT 15-60%
MASSIVE >60%

A 04457 (b)

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
1.1									
26									
16 .5	26								
.7	26.5								
0									
.8	27.2								
0									
1.1	28								
52		Changes in coloration due to the presence of ultrafine Pyrite.							By 3-5% - unit is more buff-pale green.
1.6	29.1								
								30	
82									
.7	30.70								
0									
1.1	31.4								By 5-10%
23									
0.4	32.5								
.7	32.9								
0									
1.6	33.6								
82									
	35.2								
								35.5	
2.8		Pale green-grey strongly sericite/carbonate altered Dacite lava, minor fracturing by fine pyrite., Dacite is porphyritic usually infilled with sericite							
25	38.0								By <1%
1.7									
70		minor chlorite occurs along fractures.							
	39.7								
1.2									
24	40.9								
NO CORE									
Cl .9m	41.8								
1.5									
67	43.3								
1.1									
0	44.4								
1.2									
0	45.6								
1.6									
66									
Cl .7	47.2								
.5									
0									
.8	48.5								
28									
1.0	49.3								

QUE RIVER MINING PTY. LTD.

DIAMOND DRILL LOG

HOLE No. DA-2 Page No. 3 of 11

LOGGED BY SGF

DATE

MINERALIZATION

TRACE 1-5%
COMMON 5-15%
ABUNDANT 15-60%
MASSIVE > 60%

A 04457 (b)

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
0	50.3	Pale green - buff coloured chlorite altered basic lava, occassionally brecciated with silica/carbonate veinlets. sericite alteration occurs as small clots and fine <1mm veinlets chlorite occurs along fractures							
1.3									
0	51.6								
0.2	51.8								
0.3	52.1								
0.3	52.4								
.7									
0	53.1								
1.5									
0	54.6								
.7	55.3								
15									
.6	55.9								
27									
0.5	56.2								
0.3	56.5								
0.4	56.9								
.7									
0	57.6								
1.2									
52	58.8								
1.3									
79	60.1								
.9									
35	61								
.5									
0	61.5								
.7									
0	62.2								
1.5									
28	63.7								
1.6									
88	65.3								
1.4									
0	66.7								
0.3	67								
.7									
34	67.7								
0.3	68								
1.3									
10	69.3								
.9									
22	70.2								
0.4	70.6								
1.0									
17	71.6								
1.5									
64	73.1								
1.4									
79	74.5	74.8 - 75.2 stronger brecciation with finer fragments sub parallel - parallel to CA							
0.3	74.8								

QUE RIVER MINING PTY. LTD.

DIAMOND DRILL LOG

HOLE No. DA-2

LOGGED BY SQF

DATE

MINERALIZATION

TRACE 1-5%
COMMON 5-15%
ABUNDANT 15-60%
MASSIVE >60%

A 04457 (b)

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
1.0		½ Core is massive Dacite, ½ brecciated.							
84	75.8								
1.6		Massive Dacite Lava as Before							
114	77.4								
1.5									
106	78.9								
1.6									
110	80.5								
1.6									
100	82.1								
.9									
73	83								
0.4	83.4								
3.1									Py < 1%.
131	86.5								
14.5	87								
1.3									
31	88.3								
2.7									
240	91								
3.0									
256	94								
3.0									
268	97								
3.0									
129	100								

NQ ↓

QUE RIVER MINING PTY. LTD.

DIAMOND DRILL LOG

HOLE No. DA 2 Page No. 5 of 11

LOGGED BY SQF

DATE

MINERALIZATION

TRACE 1-5%
COMMON 5-15%
ABUNDANT 15-60%
MASSIVE > 60%

A 04457 (b)

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
0.6									
40	100.6								
3.1									
168	103.7								
10.2	103.9								
3.2									
250	107.1								
3.1									
249	110.2								
3.0									
239	113.2								
3.1									
181	116.3								
3.1									
239	119.4								
2.9		last 5 meters is very strongly Sericite altered. Commonly brecciated							
215	122.3							123.88	
1.7		Dark gray - light brown very strongly Sheared FZ Sericite altered Dacite breccia Silica veining is common, with veins occasionally						124.1	fg 5-10
15	124								
.6									
0	124.6								

QUE RIVER MINING PTY. LTD.

DIAMOND DRILL LOG

HOLE No. QA-2 Page No. 6 of 11

LOGGED BY SGF

DATE

MINERALIZATION

TRACE 1-5%
COMMON 5-15%
ABUNDANT 15-60%
MASSIVE >60%

A 04457 (b)

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
2.2		being offset by joints							
77	136.8								
1.8									
57	138.6								
1.2									
36	139.8	Sericite/Carbonate alteration increases until only vague outlines of the Primary Texture is visible.							
1.2									
11	141.0								
1.7									
59	132.7							132.7	
1.8		Grey sericite altered, polymictic Reworked pyroclastic angular fragments to 3cm.							1% 5%
47	134.5							133.9	
1.4		Pale grey sericite altered fragments occur in a siliceous matrix, unit may be a more altered version of above.							1% 5%
13	135.9							135.9	
1.4		Grey sericite altered / chlorite brecciated Dacite, only vague Dacite fragments are visible beneath the alteration							
25	137.3								
1.0									
10	138.3								
1.4								138.7	
0	139.7	White Vein Quartz.						139.7	
2.1		Grey sericite/chlorite altered rock, Primary textures are largely obscured by alteration, very vague fragments may be suggestive of a dacite breccia. q veins							1% 5-10%
67	141.8								
1.3									
46	143.1								
3.2									
188	146.3								
1.2									
24	147.5	BASE METAL SULPHIDE						147.1 / 147.3	1% 35-40%
3.2		Pale grey Sericite/carbonate altered Reworked, only vague texture is visible							Clay ~5%
		Grey strongly sericite/carbonate altered, strongly brecciated Dacite						149.1	
								149.7	

QUE RIVER MINING PTY. LTD.

DIAMOND DRILL LOG

HOLE No. DA-2 Page No. 7 of 11

LOGGED BY .....

DATE .....

MINERALIZATION

TRACE 1-5%
COMMON 5-15%
ABUNDANT 15-60%
MASSIVE > 60%

A 04457 (b)

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
110	150.7	Pale grey sericite altered Dacite Lava; occasionally brecciated							Py ~5%
2.5								152.4	
69	153.2	Grey strongly sericite altered, polymictic reworked Pyroclastic fragments are Sericite altered and streaked out							Py 10-15
0.6	153.8								
1.3									
16	155.1								bands of Massive Py
3.1									
153	158.2	fragments become rounded, up to 10cm in size, Matrix is strongly Sericite altered							
1.4									
54	159.6								
3.1									
141	162.7								
3.1									
230	165.8								
3.2									
80	169								
1.3									
100	170.3								
3.1									
								172.6	
230	173.4	dark grey - green Illite Hydromuscavite / Carbonate / Sericite altered rock, occassional patches of reworking							Py 5%

QUE RIVER MINING PTY. LTD.

DIAMOND DRILL LOG

HOLE No. DA-2 Page No. 8 of 11

LOGGED BY .....

DATE .....

MINERALIZATION

TRACE 1-5%
COMMON 5-15%
ABUNDANT 15-60%
MASSIVE > 60%

A 04457 (b)

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
2.3									
144	175.7	below 176.2 unit appears							
1.5		Dacitic							
68	177.2	Reworked units 174.5 - 174.6.							
1.8		178.8 - 179							
		181.55 - 181.7							
40	179							179	
3.1		Pale grey sericite altered, Illite/Hydromuscovite							
		Carbonate altered Dacite Breccia							
162	182.1								
3.7									
148	185.8								
2.9									
63	188.7								
1.4									
41	190.1								
2.9									
170	193.								
3.0									
242	196	Dacite becomes strongly brecciated, giving							
3.0		a pyroclastic appearance., with							
		minor Illite/Hydromuscovite							
246	199							199.2	
1.4		Cream-green Illite Hydromuscovite							
		Carbonate altered Polymict reworked							

QUE RIVER MINING PTY. LTD.

DIAMOND DRILL LOG

HOLE No. DA-2 Page No. 9 of 11

LOGGED BY .....

DATE .....

MINERALIZATION

TRACE 1-5%
COMMON 5-15%
ABUNDANT 15-60%
MASSIVE > 60%

A 04457 (b)

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
3.1	200.4	Pyroclastic, clasts are largely dacitic with minor sedimentary clasts; most fragments are sericite altered.							
184	203.5							203.7	
3.0		Pale grey sericite / illite / Hydromuscovite / Carbonate altered Dacite lava							
201	206.5								
1.6									
103	208.1								
1.2									
80	209.3								
2.2									
133	211.5								
1.3									
39	212.8								
0.6	213.4	Becomes strongly brecciated below 213m to a grey strongly altered rock 213.8-214.2							
20.6	214.0							214.2	
2.8		Pale grey sericite / illite / Hydromuscovite / carbonate altered volcaniclastic possibly DTL., unit is polymictic, with largely dacite fragments., occassional, black, shaly fragments.							
219	216.8								
3.1									
149	219.9								
9		broken core							
0	220.8	/ 219.7-221							
3.1									
194	223.9								

9

QUE RIVER MINING PTY. LTD.

DIAMOND DRILL LOG

HOLE No. DA-2 Page No. 10 of 11

LOGGED BY .....

DATE .....

MINERALIZATION

TRACE 1-5%
COMMON 5-15%
ABUNDANT 15-60%
MASSIVE >60%

A 04457 (b)

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
3·1									
300	227								
3·1									
								228·9	
		Pale grey-buff, sericite/carbonate altered pyrite fractured porphyritic Dacite lava, numerous qtz/carbonate veins.							fg ~5%
271	230·1								
3·1									
276	233·2								
3·1									
274	236·3	Dacite become more fractured below 236 m.							
3·1									
								237·9	
297	239·4	Pale. grey sericite/Carbonate altered. DTL fragments vary from angular to subrounded, unit is polymictic, with grain size varying 10cm to 1cm, streaked pumice fragments also occur throughout the unit.							
3·1									
283	242·5								
3·1									
267	245·6								
2·9									
283	248·7								
3·1									

QUE RIVER MINING PTY. LTD.

DIAMOND DRILL LOG

HOLE No. DA - 2 Page No. 11 of 11

LOGGED BY .....

DATE .....

MINERALIZATION

TRACE 1 - 5 %
COMMON 5 - 15 %
ABUNDANT 15 - 60%
MASSIVE > 60%

A 04457 (b)

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
		250 - 2502 very strong Illite Hydromuscovite alteration							
287	2518	EOH							