RGC EXPLORATION PTY LTD

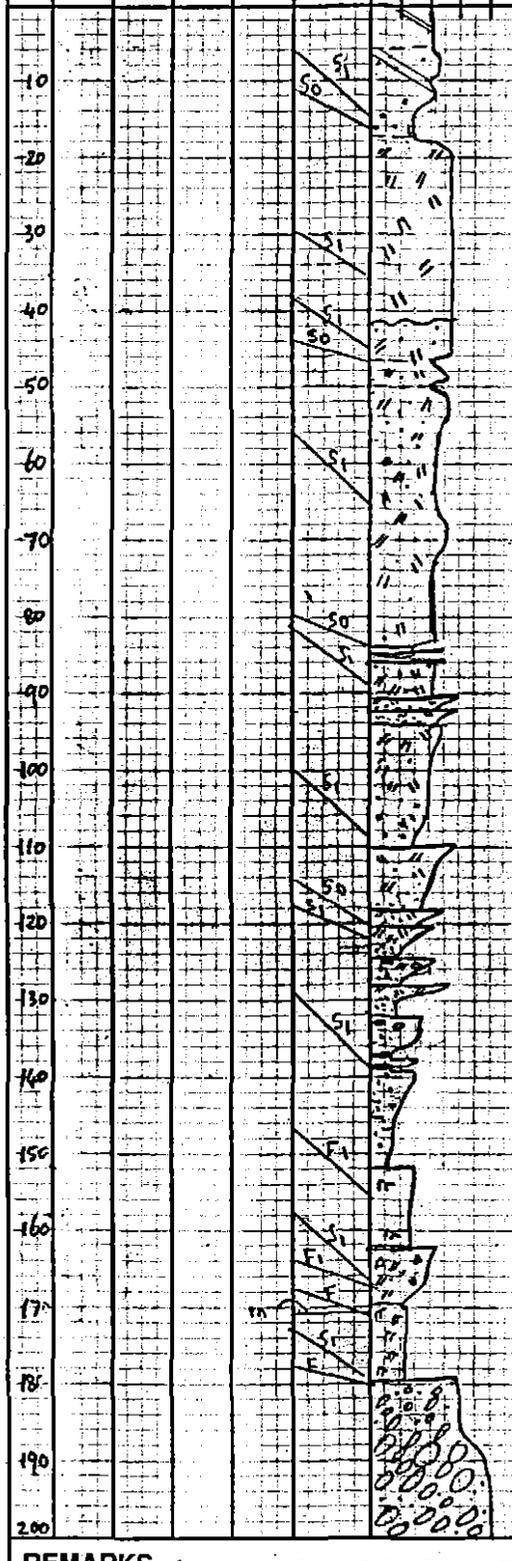
DRILL HOLE No GAR 005

SHEET 1 OF 2

Bedding	Disseminated
Cleavage	Massive
Foliation	Pervasive
Fault, Shear	Narrow vein
Breccia	* Visible gold
Broken core	

PROJECT	:
PROSPECT	: GARFIELD
DATE	: 23-02-95
LOGGED BY	: S CORLETT.

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG (1/16, 1/4, 1, 4, 16, 32)	ALTERATION: SIL.	SER.	PY.	CHL.	CARB	HEMATITE	PALLIDITE	GEOLOGY NOTES	SUMMARY: ROCK	ALTERATION



- fine grained, thinly bedded mudstone
- 6m interbedded siltstone/mudstone
- 12.8m - fine grained mudstone
- 19.4m - crystal rich quartz phyric lava (intrusive)
  - >40% phenocrysts incl. 30% quartz grains (0.1-0.5cm)
  - 10% feldspar
  - 5% biotite in fine grained sericitised groundmass
- 39.6m
  - crystal rich volcanic sediment; coarsely normal graded 1-2m beds
  - weakly chloritised/sericitised + silicified.
- 55.0m
  - massive crystal rich volcanic sandstone
  - biotite & sericite define foliation.
- 84-85.0 interbedded quartz phyric sandstone and siltstone beds (qtz + biotite)
- 110m - disseminated grains of pyrite
  - 1% carbonate veining
  - microfaulted.
- 118.8m - graded beds with quartz phyric bases & fine grained sandstone tops.
  - silicified & sericite
- 123m - white clasts (2%) at base.
  - interfingering between mudstone + crystal rich volcanic sediment
- 154m LO>C - crystal phyric dacite lava.
  - biotite relatively undeformed (cream).
- 160m - 2-4cm q-cb-ser-chl veins
- 165.8m - massive qtz phyric dacite with cream biotite
- 181.4m - faulted contact with coarse conglomerate

SUMMARY	
ROCK	
ALTERATION	

REMARKS SAMPLED 190.0m TO 218.0m. ZONE OF MODERATE HEMATITE ALTERATION.

620908

RGC EXPLORATION PTY LTD

DRILL HOLE No GAR 005

SHEET 2 OF 2

Bedding	Disseminated
Cleavage	Massive
Foliation	Pervasive
Fault, Shear	Narrow vein
Breccia	* Visible gold
Broken core	

PROJECT	:
PROSPECT	: GARFIELD
DATE	: 23-02-95
LOGGED BY	: S. CORLETT.

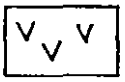
HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG (1/16, 1/4, 1, 4, 16, 32)	ALTERATION: SIL.	SER.	PY.	CARB.	CHL.	HEM.	GEOLOGY NOTES	SUMMARY: ROCK	ALTERATION
200			51								-clast compositions dominated by (1) rhyolite (q phyric - commonly embayed)		
210			50								(2) hematitic siltstone (fractured, brecciated & smeared into foliation)		
			50								- poorly sorted & large variation in clast size.		
220											- clast supported conglomerate		
			51								- local transitions from clast to matrix support to graded.		
230				EOH 235.0m									
240													

REMARKS

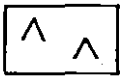
806023

SYMBOLS FOR COHERENT TEXTURES

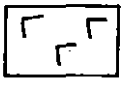
- single line symbols for low to moderate phenocryst abundance
- double line symbols for abundant phenocrysts
- smaller symbols for fine grained phenocrysts
- larger symbols for coarse grained phenocrysts
- additional "+" symbol for coarse, phenocryst-rich granitoid texture

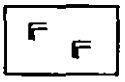

basalt, poorly to moderately porphyritic basalt

phenocryst-rich basalt

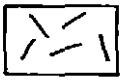

andesite, poorly to moderately porphyritic andesite

phenocryst-rich andesite

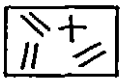

dacite, poorly to moderately porphyritic dacite


phenocryst-rich dacite

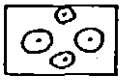
fine, poorly to moderately porphyritic rhyolite


coarse, poorly to moderately porphyritic rhyolite

coarse, phenocryst-rich rhyolite

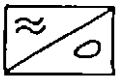

coarse rhyolitic porphyry

flow foliation


spherulites, lithophysae, alteration spots, nodular devitrification texture

SYMBOLS FOR VOLCANICLASTIC TEXTURES

- closer spaced symbols for dominant grain size and grain type


pumice or relict pumice

angular, juvenile lava clasts

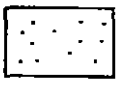
fiamme/
vitriclast or relict vitriclast

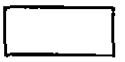
accretionary lapilli

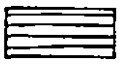
angular, polymict lithic clasts

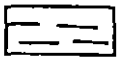
rounded, polymict lithic clasts

mudstone intraclast

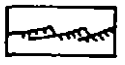

sand-size particles, granular texture


mud-size particles

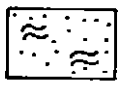

distinct planar stratification


diffuse planar stratification

cross bedding


micro-cross lamination

e.g.


pumice clasts in sand matrix

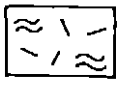
angular polymict lithic clasts and mudstone intraclasts in sand matrix

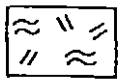
SYMBOLS FOR JUVENILE-CLAST-RICH DEPOSITS

jigsaw-fit texture of fine, moderately porphyritic rhyolite

jigsaw-fit texture of coarse, moderately porphyritic rhyolite

jigsaw-fit texture of coarse phenocryst-rich andesite


pumice-clast-rich deposit, coarse, moderately porphyritic rhyolitic composition


pumice-clast-rich deposit, coarse, phenocryst-rich rhyolitic composition

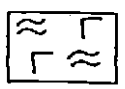

pumice-clast-rich deposit, coarse, moderately porphyritic dacitic composition

Fig. 9—Recommended composition and texture symbols for graphic logging of volcanic deposits.
(From:- McPhie, Doyle and Allen. CODES 1993)

RGC EXPLORATION PTY LTD

DRILL HOLE No GAR-005

SHEET 1 OF 12

Bedding	Disseminated
Cleavage	Massive
Foliation	Pervasive
Fault, Shear	Narrow vein
Breccia	* Visible gold
Broken core	

PROJECT	:
PROSPECT	: GARFIELD
DATE	: 13-02-95
LOGGED BY	: SCORLETT

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG (1/16, 1/4, 1, 4, 16, 32)	ALTERATION (SIL., SER., PY.)	GEOLOGY NOTES	SUMMARY ROCK	SUMMARY ALTERATION
2.0								
3.0						- f/g mudstone, thinly bedded - strong cleavage - moderate weathering → Fe staining	ER-F	
5.0			S1			conformable lithological contact - interbedded mudstone & sandstones; variable size of bed from 1-5cm - soft & friable		
7.0			S1					
9.0			S1			- conformable w/ Lological contact to sandstone - 9m - locally silty - 9.8m str foliation ? flt (49° STA)		
11.0			S1			- 12.3m str foliation, ? flt (70° STA)		
13.0						- 12.3 - 15.9 broken core, well foliated fine grained mudstone (locally silty)		
15.0			25					
17.0			50 S1 S1			- 16.1m - Joint (44° SCA) - finely laminated mud + siltstone 0.2cm av. bed thickness < 0.2% finely disseminated pyrite on bedding planes - 45° BCA, 38° SCA		
19.0			S1 cb sm			- 17m medium to thin bed thickness weak fluidal textures (micro faults - 17.9m lenses of coarse s/st in fine m/st (local) - 19.4 coloring gain of silts/st & q rich felsic lava (Porphyrine)		
21.0						21.9m 5cm diam RVA.		

REMARKS

806097

RGC EXPLORATION PTY LTD

DRILL HOLE No GAR005

SHEET 2 **OF** 12

Bedding	Disseminated
Cleavage	Massive
Foliation	Pervasive
Fault, Shear	Narrow vein
Breccia	* Visible gold
Broken core	

PROJECT	:
PROSPECT	: GARFIELD
DATE	: 13-02-95
LOGGED BY	: S CORLETT

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG (1/16, 1/4, 1, 4, 16, 32)	ALTERATION (SIL. SER. PY. CHL.)	GEOLOGY NOTES	SUMMARY ROCK	SUMMARY ALTERATION
22						coarsely feldspar phyric intrusion		
						× moderate sericite alteration of q-felsic lava		
						- coarse quartz phenos (30% (av. 0.4-0.5cm diam) with common pressure shadows		
24						- feldspar (20%) aligned with foliation		
						- 5% coarse biotite disseminated		
26						- fine grained sericitised groundmass.		
28			S1					
30								
						31.5m - well developed cleavage.		
32			F ?S2 S1			32.70 - biotite/sericite definition of foliation		
						33.4 - locally bleached around q vein (10cm), porphyritic		
34								
			S1			36-37.4m - intense foliation, biotite sericite 1 py defining cleavage.		
36								
						39.6m - crystal rich volcanic s/st.		
						× ill defined crystal boundaries - coarse q > F > bi with weakly sericitised & chloritised groundmass		
38			S1			× weak foliation		
						× hairline carbonate veins and blebs occur along cleavage		
40						× ? subrounded grains		
						× lithic clasts 2% - crystal rich		
42								

REMARKS

806098

RGC EXPLORATION PTY LTD

DRILL HOLE No GAR 005

SHEET 3 OF 12

Bedding	Disseminated
Cleavage	Massive
Foliation	Pervasive
Fault, Shear	Narrow vein
Breccia	* Visible gold
Broken core	

PROJECT	:
PROSPECT	: GARFIELD.
DATE	: 14-02-95
LOGGED BY	: SUE CORLETT.

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG (1/16, 1/4, 1, 4, 16, 32)	ALTERATION: SIL.	SER.	PY.	CHL.	CARB	GEOLOGY NOTES	SUMMARY: ROCK	ALTERATION
44			S1							- crystal rich volcanic s/st - coarsely graded beds (1-2m), weakly silicified + chloritised + silicified		
46												
48			F.							- open space carbs from carbonate veining: vughs		
50										51.6m - qtz vein 4cm diameter, sericite lined with intergrowths of sericite - <1% anastomosing carbonate veins		
52			S1									
54										- massive crystal rich volc s/st - weak carbonate alteration, biotite & sericite define pervasive foliation		
56												
58												
60			S1							- open space qtz-sericite intergrowth in vein		
62												
64												

REMARKS

806099

RGC EXPLORATION PTY LTD

DRILL HOLE No GAR005

SHEET 4 OF 12

Bedding | Disseminated | Cleavage | Massive | Foliation | Pervasive | Fault, Shear | Narrow vein | Breccia | * Visible gold | Broken core

PROJECT	:
PROSPECT	: GARFIELD
DATE	: 14-2-95
LOGGED BY	: SUE CORLETT.

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG (1/16, 1/4, 1, 4, 16, 32)	ALTERATION (SIL. SER. PY. Cy L Carb)	GEOLOGY NOTES	SUMMARY ROCK	SUMMARY ALTERATION
64						• crystal rich basalt – grading upward into lithic slats. • weak schistic + chloritic definition of S, • biotite <1%, • weak carbonate alteration in -q>F • crystal rich graded volcanic s/st		
66								
68			S1					
70			QVN					
72								
74			CB VN			74cm anastomosing cb vein; with Hm, py & sericite wispy gen. n.o. 5cm thick -q>F		
76								
78						Sub angular grain boundaries -q>F		
80								
82			So S1			• silt bands 1cm thick • boudinaged carbonate veins • 5% of crystals – sub angular boundaries		
84								

REMARKS

806100

RGC EXPLORATION PTY LTD

DRILL HOLE No GAR 005

SHEET 5 OF 12.

Bedding	Disseminated
Cleavage	Massive
Foliation	Pervasive
Fault, Shear	Narrow vein
Breccia	* Visible gold
Broken core	

PROJECT	:
PROSPECT	: GARFIELD
DATE	: 14-02-95
LOGGED BY	: SUE CORLETT.

HOLE DEPTH	SAMPLE No / PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG (1/4 1/4 1 4 16 32)	ALTERATION: SIL.	SER.	PY.	CHL.	CARB	GEOLOGY NOTES	SUMMARY: ROCK	ALTERATION
84			S_0							interbedded crystal rich volcanic sandstone & siltstone (1-20cm bed thickness). q > f > mica		
86										-course crystal rich volcanic sandstone - massive q > f.		
88												
90			S_0 S_1							well graded beds. 25cm beds; course crystal rich bases - both rounded & subangular grains. q > f		
92												
94												
96												
98												
100												
102			S_1							anastomosing carbonate vein - abundant pressure shadows around q grains 103.7m - 30% crystals. q > f		
104												

REMARKS

806101

RGC EXPLORATION PTY LTD

DRILL HOLE No GAR 005

SHEET 6 OF 12

Bedding	Disseminated
Cleavage	Massive
Foliation	Pervasive
Fault, Shear	Narrow vein
Breccia	* Visible gold
Broken core	

PROJECT :	
PROSPECT :	GARFIELD
DATE :	14-02-95
LOGGED BY :	SUE CORLETT

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG (1/16, 1/4, 1, 4, 16, 32)	ALTERATION: SIL.	SER.	PY.	CHL	CARB	GEOLOGY NOTES	SUMMARY: ROCK	ALTERATION
104										- graded bedding, crystal rich base - weak sericite alteration - g > f.		
			S1									
106												
108			So							crystal depleted volcanic sandstone		
										- disseminated grains of cubic pyrite <1% - rounded and subangular grains g > f.		
110												
			S1									
112										- carbonate blebs - discontinuous ? boudinaged veins - disseminated pyrite <1% py in carbonate vein - microfractured.		
114												
116										- 1% carbonate veins (late stage)		
118										- graded beds from coarse crystal rich volcanic sed to fine grained sandstone - g > f		
			So									
120												
			S1							- S1 defined by sericite		
122										- lithic clasts - interfingering between mudstone & crystal rich volcanics		
124												

REMARKS

806102

RGC EXPLORATION PTY LTD

DRILL HOLE No GARD005

SHEET 2 OF 12

Bedding
Cleavage
Foliation
Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

PROJECT	:
PROSPECT	: GARFIELD
DATE	: 14-02-95
LOGGED BY	: SUE CORLETT

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION SIL.	SER.	PY.	CARB	GEOLOGY NOTES	SUMMARY ROCK	ALTERATION
124			S_1						· crystal phyric volcanic sediment · q>f		
126											
128			S_1 So						· graded beds, weak carbonate-sericite alteration.		
130									· well bedded sandstone grading into vfg shale with <1% disseminated fine grained pyrite		
132									· intercalated shale / crystal rich epiclastic		
134									· 133.5m: bands of shale with both sharp & intercalated boundaries. · massive volcanic sandstone q>f		
136											
138			S_1						138.0m - lithic fragments elongate along foliation		
140											
142											
144											

REMARKS

806103

RGC EXPLORATION PTY LTD

DRILL HOLE No GAR 005

SHEET 3 OF 12.

Foliation
Fault / Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
Visible gold

PROJECT	:
PROSPECT	: GARFIELD
DATE	: 15-02-95
LOGGED BY	: SUE CORLETT.

HOLE DEPTH	SAMPLE No. PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG (1/16, 1/4, 1, 4, 16, 32)	ALTERATION: SIL.	SER.	PY.	CARB	CHL	GEOLOGY NOTES	SUMMARY: ROCK	ALTERATION
144										· volcanic sandstone q>f · weak carbonate alteration		
146			60									
148			S1							· black fg shale · microfaulting in carbonate + pyrite veins		
150			F									
152										· faulted and intercalated at base · crystal phyric dacite (lava?) with 20% phenocrysts. · biotite partially replaced to cream coloured grains q>f (coarse)		
154												
156												
158												
160			F S1	VN VN						+ q-carb-ser-chl vein 2cm diam. + q-carbonate-sericite-chlorite vein 3-4cm		
162			? F							local brecciation with carbonate + siltstone matrix - local increase in qtz content grain size q>f - epidotic quartz arenite volcanic sediment		
164												

REMARKS

806104

RGC EXPLORATION PTY LTD

DRILL HOLE No GAR005

SHEET 7 OF 12

Bedding | Disseminated
Cleavage | Massive
Foliation | Pervasive
Fault, Shear | Narrow vein
Shattered | Visible gold
Broken ...

PROJECT :
PROSPECT : GARFIELD
DATE : 15-02-95
LOGGED BY : SUE CORLETT

HOLE DEPTH	SAMPLE NO.	Cu	Pb	Zn	STRUCT.	GRAPHIC LOG	SIL.	SER.	PY.	CARB	CHL	HEM	FALSITE	GEOLOGY NOTES	SUMMARY ROCK	SUMMARY ALTERATION
164														- crystal rich volcanic sediment		
166																
168					75° F S1									- massive q > f pyritic dacite with replaced biotite (cream)		
170														- mod foliation - late stage carbonate veins - ?albite alteration weakly through ground mass		
172					S1									- small lenses of chlorite / carbonate (discontinuous)		
174																
176																
178																
180	38594	6	–	19	F									puggy, indurated fault zone		
182	38595	5	–	22		fault								- lithic rich conglomerate clasts comprise 30-60% of rock with med grained sericitic and carbonate altered mafic/dacite clasts ± Hm - Pre Cambrian age clasts alteration are common.		
	38596	17	–	48	So S1											
184	38597	6	–	36												

REMARKS Sampled from 190.0 to 218.0

806105

RGC EXPLORATION PTY LTD

Bedding
Cleavage
Foliation
Fault, Shear
Breccia
Broken core
Disseminated
Massive
Pervasive
Narrow vein
* Visible gold

DRILL HOLE No GAR005

SHEET 10 **OF** 12

PROJECT	:
PROSPECT	: GARFIELD
DATE	: 15-02-95
LOGGED BY	: SUE CORLETT

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS Cu	Au	Zn	STRUCT.	GRAPHIC LOG (1/16, 1/4, 1, 4, 16, 32)	ALTERATION SIL.	SER.	PY.	CARB.	CHL.	HEM.	GEOLOGY NOTES	SUMMARY ROCK	ALTERATION
184	38598	–	–	33	S1								- clast compositions include rhyolite, hematite altered siltstone, quartzite (± hematite)		
	38599	–	–	35	50										
186	38600	–	–	47									- hm ± gal ° mineralised clasts comprise <1% rock		
	38601	6	–	32									- cb (?siderite) veins & blebs → common infilling with hematite		
188													- av. clast size 0.5 – 3cm		
	38602	–	–	29											
	38603	10	–	24									- onset of hematite alteration → replacement of clasts & matrix		
190	38604	31	–	30	S1								- clasts commonly fractured (hematite infilled) and embayed.		
	38605	–	–	31											
192	38606	4	–	35	50										
	38607	–	–	35											
194	38608	8	–	28											
	38609	6	–	28											
196	38610	21	–	35	S1										
	38611	20	–	33											
198	38612	18	–	33	S0										
	38614	39	–	30											
200															
202													- Local brecciation associated with carbonate veining.		
204													- hematite alteration halos around siltstone clast.		

REMARKS Sampled from 190.0m to 218.0

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RGC EXPLORATION PTY LTD

DRILL HOLE No GAR005

SHEET 11 OF

Bedding	Disseminated
Cleavage	Massive
Foliation	Pervasive
Fault, Shear	Narrow vein
Breccia	* Visible gold
Broken core	

PROJECT	:
PROSPECT	: GARFIELD
DATE	: 15-02-95
LOGGED BY	: SUE CORLETT

HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG (1/16, 1/4, 1, 4, 16, 32)	ALTERATION: SIL.	SER.	PY.	CARB.	CHL.	HEM.	GEOLOGY NOTES	SUMMARY: ROCK	ALTERATION
204													
											× clast supported conglomerate local clast compositions (1) rhyolite (q n h s commonly embayed)		
206			S1								(2) hematitic siltstone often fractured, brecciated or smeared into plane of foliation		
			S0								× large variation in clast size from 0.2cm to 10cm		
208											× poorly sorted.		
210													
212											× matrix support of conglomerate - sandy & fine grained.		
214											× incidence of chlorite - sericite alteration & sharp boundary to hematite alteration.		
			S0										
216													
218											× clasts become smaller & more ill defined × lithic clasts smeared into plane of foliation × 5% rhyolite clasts - fractured & matchy silicified		
220			S1										
			S0										
222											locally transitional to × clast supported conglom.		
224													

REMARKS

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RGC EXPLORATION PTY LTD

DRILL HOLE No GAR005

SHEET 12 OF

Bedding	Disseminated
Cleavage	Massive
Foliation	Pervasive
Fault, Shear	Narrow vein
Breccia	* Visible gold
Broken core	

PROJECT	:
PROSPECT	: GARFIELD
DATE	: 15-02-95
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HOLE DEPTH	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG (1/16, 1/4, 1, 4, 16, 32)	ALTERATION: SIL.	SER.	PY.	CARB.	CHL.	HEM.	GEOLOGY NOTES	SUMMARY: ROCK	ALTERATION
224											x well sorted lithic clasts - elongate & smeared into plane of foliation		
226											x graded beds av. 1-2m thickness; coarse basal x matrix supported conglom		
			So										
228													
230													
232											x weakly silicified with late stage quartz veins.		
			Si										
234				EOH							EOH 235.0m		
236													

REMARKS

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