OMNI RESOURCES INC.

DIAMOND DRILL HOLE LOG

PROJECT	CHARLESTON	HOLE No:	87-51
COORDINATE N.	L0+50S	DEPTH	
E.	L0+75E	AZIMUTH	235°
ELEVATION	6770'	INCLINATION	-66
DATE STARTED	AUGUST 8, 1987	DRILLED BY	CARON D.D.
COMPLETED	AUGUST 11, 1987	ASSAYED BY	Acme
HOLE SURVEY		LOGGED BY	HUGH MACKINNON

Reason for Drilling TEST CHARLESTON MINERALIZED VEIN FOUND IN 1986 TRENCH #2

Explanation of Results MAIN CHARLESTON VEIN MAY PINCH OUT, OR BE FAULTED OFF AT DEPTH

LEGEND

- Granodiorite
- Andesite
- Rhyolite
- Rhyodacite
- Feldspar diorite
- Qtz veins

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BOX	Run	Core	% R	R.Q.D.	LITHOLOGY, ALTERATION, STRUCTURE	MINERALIZATION	GRAPHIC LOG	FT.	Sample No.	INTERCEPT	CORE LENGTH	Au	Ag
1	1		∅		CASING – OVERBURDEN			5, 10					
	14	5	86%	.18	13.0' COARSE GR. HNBLD GRANODIORITE ([illegible]) 15-20% ≤8mm hornblende xtals, 1-6% biotite, 1-4mm qtz & feldspar xtals, 1% magnetite. Predominantly fresh to weakly alt'd. Alteration of mafics & occasionally feldspars to chlorite +/or epidote. Alteration generally increases w/ depth. Occasional xenoliths. Fractures variable, commonly at 70°, 20°, & 10° to C.A.			15					
	19	4	80%					20					
	23	5						25					
	28		99%					30					

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BOX	Run	Core	% R	R.Q.D.
2	33	5		
	40	7	100	.50
	45	3		
49.6	48	5		
3	52	4	90	.31
	57	5		
61.4	62	5		
	66	4	78	.19

LITHOLOGY, ALTERATION, STRUCTURE

– 35.0 – 35.8'; Epidotized granodiorite w/ weak K (pink) alteration

– 41.8 – 42.7 : moderately sheared & altld granodiorite, chloritized bands @ 23° to C.A.

– 42.7 – 46.4 : 2 – 6% biotite, weak to mod alt'd.

46.4 Lower contact 40° to C.A.

MIXED ALT'D GRANODIORITE & FN. GR. GD.

47.4 Lower contact sharp at 25° to C.A.

DARK GREEN TO BROWN FINEGRAINED DIORITE

Weak to non magnetic; ≤0.5mm plagioclase laths in a v. fine grained matrix; "felt like" texture.

– 47.4 – 49.3; 12% ≤1mm subhedral chlorite phenocrysts in an aphanitic matrix. 5% open space vesicles? or weathered out phenos. Chilled contact?

66 – 69': Blocky & broken core

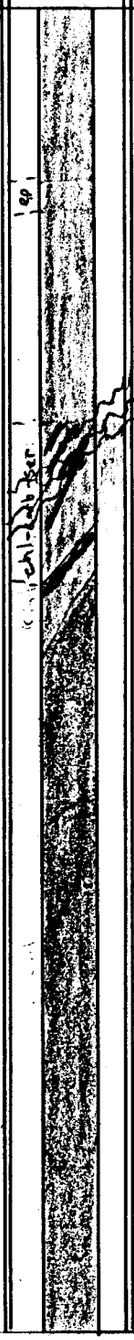
MINERALIZATION

tr – 1% v.fn.gr. py diss'd in qtz-calcite vnlts.

A.A.

Tr v.fn.gr. py diss. d in qtz vnlts.

GRAPHIC LOG



FT.

35 40 mod/ weak 45 50 55 60 65

SAMPLE			ANALYTICAL		
Sample No.	INTERCEPT	CORE LENGTH	ppb Au	ppm Ag	Pb (ppm)
8578	41.8 – 42.8	1'	9	.1	7
8579	44.4 – 46.4	2'	1	.2	6
8580	46.4 – 47.4	1'	1	.1	7

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BOX	Run	Core	%R	R.Q.D.	LITHOLOGY, ALTERATION, STRUCTURE	MINERALIZATION	GRAPHIC LOG	FT.	SAMPLE Sample No.	SAMPLE INTERCEPT	SAMPLE CORE LENGTH	ppb ANALYTICAL O.P.T. Au	ppm ANALYTICAL O.P.T. Ag	ppm ANALYTICAL Pb (ppm)
	69	3												
70		3												
	72													
4		5			Lower contact sharp at @ 5° to C.A.									
					75.1 LIGHT-BUFF GREEN RHYODACITE 1-3% euhedral feldspar (Kspar ?), 1-3% qtz & 3% mafic (chlorite or hornblende) phenocrysts in an aphanitic matrix. Weak to moderate epidotization, predominantly along fractures. Weak carb along fractures. Slightly bleached. Fractures commonly 30° to C.A.									
	77													
		2												
70.6	79				78.8									
80		4			DARK GREEN ALT'D AUGITE (?) ANDESITE & FINE GR. DIORITE 5% chlorite alt'd anhedral to euhedral augite (?) phenocrysts in a groundmass that grades from fine grained (at top) to aphanitic (at base). Weakly magnetic, w/ v. fine grained diss. magnetite. Weak pervasive carb alteration, occasional (1-2mm) carb vein (commonly at 20° to C.A) & epidote-carb vns or vnlts at base. Weak to moderate pervasive chloritization. 3' chilled margin at base.	Tr diss VSgrpy towards base	ch l	weak/ mod						
	83													
		5												
5			90	.80										
	88				89.3 Lower contact sharp at @ 30° to C.A.									
90		5			COARSE GRAINED HORNBLENDE GRANODIORITE White & black coloured w/ 20% euhedral ±6mm hornblende, 30-40% plagioclase, 10-15% kspar, 30-35% quartz, & ~2% magnetite. Moderate but patchy propyllitic alteration w/ hornblende → chlorite, plag → epidote ± sericite ± calcite. 1% epidote or sericite vnlts.		ch l - ep - ser	mod						
	93													
95.4					96 Lower contact sharp at @ 40° to C.A.									
					DARK GREEN ANDESITE Grades from fine to very fine grained w/ depth, Calcik vnlts increase to 3% at depth. Chloritic & sericitic alt'n around vnlets.	tr-1% NSgrpy diss & along vnlts.		weak/ mod						
100			94	.54	-100.0 - 100.5 - chlorite alt'd augite andesite w/ aphanitic matrix. Strongly chilled margins - Xenolith?		ch l							
6					101.9 Lower contact sharp 40° to C.A.									
	103				COARSE GRAINED HORNBLENDE GRANODIORITE									

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BOX	Run	Core	% R	R.Q.D.	LITHOLOGY, ALTERATION, STRUCTURE	MINERALIZATION	GRAPHIC LOG	FT.	SAMPLE Sample No.	SAMPLE INTERCEPT	SAMPLE CORE LENGTH	ppb ppm ANALYTICAL o.p.t. Au	o.p.t Ag	Pb (ppm)
6					10-15% 1-12mm predominantly chloritized euhedral to subhedral hornblende, 25-40% 1-4mm grey qtz xtals, 10-15% subhedral Kspar, 25-35% 2-5mm plagi xtals, tr to 2% euhedral biotite & magnetite. Generally fresh w/ weak pervasive chloritic alteration of mafic minerals. Minor 1-10 cm bands of moderate to strong propyllitic to phyllitic alteration. Alteration bands commonly 75°-90° to C.A. occasional xenolith of fn to med. gr mafic granodiorite Fractures commonly 50° to C.A., Occasional chlorite or hematite along fractures			110							
								120						
7			100	.51				130						
					128.5-128.9', chloritic & sericitic alteration halo around a 6mm qtz-chlorite-wad vein. Vein at 75° to C.A.	Tr py			85581	128-129	1'	2	.1	11
8	135	3	87	.60				140						
	136	3												
	139	3												
140	192													

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BOX	Run	Core	% R	R.Q.D.	LITHOLOGY, ALTERATION, STRUCTURE	MINERALIZATION	FT.	Sample No.	INTERCEPT	CORE LENGTH	ppb Au	ppm Ag	ppm Pt
	195	3					145						
149.7		4			-146.9 - 147.2; Strong chl altd band at 45° to C.A.		Strong						
9	199												
		4			-149.0 - 150.9; 2 qtz-chlorite+ankerite(?) veins at 149 - 5cm & 149.6 - 4cm, Both at @ 65° to C.A, Chloritic alteration	5% gn, tr py in q.v. Gn as an aggregated mass in Vn & py along margins.	mod Strong 150	B582	149'-150'	1'	28	6.91	2565
160								B583	150'-151'	1'	4	.4	9
	153	4	91	.65	-153.0 - 154.8; Partially sheared(?) & fractured at @ ; at 15° to C.A.								
		5					155						
	159												
		5			-158.0 - 159.5; Strong propyllitic alteration. Minor hematitic units.	Tr - 1% disspy	strong	B584	158.0 - 159.5	1.5'	2	.2	12
160							160						
162.7	163	5											
		5					165						
10	168												
		5	100	.79			170						
170	173				-171.7 - 172.1; Moderate propyllitic alteration halo w/ minor hematite, around 1cm qtz-chl-fe carb vein. Vn at @ 80° to C.A.	tr - 1% py.	mod	B585	171.5-172.5	1'	1	.1	6
		5			-175.8 - 176.1; A.A., but 4mm vn.		175						
	178												
180		6					180						

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BOX	Run	Core	%R	R.Q.D.
180.7		5		
	183			
		5		
11			79	74
	188			
190		5		
	193			
		5		
198	198			
		5		
200				
	203			
12		4	97	57
	207			
		5		
210				
	212			
214.5		7		

LITHOLOGY, ALTERATION, STRUCTURE

- 188 ; Possible slickensides at @ 20° to C.A.
- 189.4 - 189.8 ; As above, w/ 7mm q.v. at 70° to C.A. & minor argillic alt'n of feldspars
- 191.7 - 193 ; Weak propylitic & argillic alt'd ; moderate to weak
- 194.6 - 196.9 ; Weak to moderate propyllitic alt'd w/ 8mm q.v. at 195.4.
- 198.3 ; 2mm q.v. w/ minor alteration halo
- 200.0 - 200.8 ; moderate propyllitic grading to weak argillic alt'd.
- 201.1 - 201.3 ; As before w/ 3mm q.v.
- 208.0 - 219.0 ; Weak to mod. alt'd w/ chloritic pervasive chloritization, & argillic alteration around small veins. Granodiorite still weakly magnetic. Weak pervasive carb. alt'd.

MINERALIZATION

tr py

tr py

tr py

tr py

GRAPHIC LOG

chl-ser-carb

FT.

180

190

weak/mod 195

200 mod

210

weak/ mod

SAMPLE			ANALYTICAL		
Sample No.	INTERCEPT	CORE LENGTH	O.P.T. Au	O.P.T Ag	

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BCX	Run	Core	%R	R.Q.D.
	219			
220		4		
	223		84	.15
13	225	2		
	228	3		
230	230	2		
	235	3		
	235.5	2.5		
14		5	85	.40
240	240.5			
	243	2.5		
	246.4	4		
	247			
	248.5	1.5		
250	250.5	2	93	.07
15		2.5		
	253			
	255	2		

LITHOLOGY, ALTERATION, STRUCTURE

219.0 Lower contact broken

DARK GREEN ANDESITE

V. fine grained to aphanitic, non porphyritic; non magnetic.
Minor 2-4mm, qtz veins near top of unit & ±1mm calcite vnlts toward base of unit.

Blocky & broken core

Strong carbonatization, weak sericitization & partial bx for 15cm at lower contact.

229.3

COARSE GRAINED HORNBLENDE GRANODIORITE

As before, weakly altered throughout. All hornblendes → chlorite, minor epidote. → Weak propyllitic alt'd

-236.9 ; clay & hematite filled fracture at 35° to C.A.

-240.2 ; Fault gouge ?

-241.0 - 243 ; slightly more alt'd, brownish tinged - Fe carbonate (?) & Xenolith (?) at 241.

243.0

DARK GREY PORPHYRITIC ANDESITE

17-20% subhedral to euhedral zoned 3-8mm phenocrysts in an aphanitic matrix. Phenocrysts dark readily visible against matrix. 3% 4-6mm calcite filled amygdules.

247.0 Weakly magnetic. Contacts broken

QTZ VEINED & ALT'D GRANODIORITE

247.0 - 248.1 ; Fe carb & chl alt'd fault gouge
248.1 - 248.5 ; Qtz vein, w/ chl alt'd gt.
248.5 - 253.8 ; Qtz veined & fractured w/ ankerite (?) increasing w/ depth. Larger vns ⊥ to C.A. Moderate calcite along fractures. Broken core
252.8 - 253.1 ; chlorite alt'd ; broken core

253.1

COARSE GRAINED HORNBLENDE GRANODIORITE

As before. Weak to moderate propyllitic +

MINERALIZATION

Tr-1% py around altered phenocrysts & amygdules

Tr-1% v.fn.gr. py

Tr gn (?), v.fn.gr py

Tr-1% v.fn.gr py

Tr-1% v.fn.gr py

GRAPHIC LOG

chl-carb-ser

chl-sercarb-qv.

FT.

220

230

240

strong/mod

250

SAMPLE

Sample No.	INTERCEPT	CORE LENGTH	PPB Au	PPM Ag	Pb (PPM)
8586	245.5 - 247.0	1.5'	Geochem 6	.1	5
8587	247.0 - 248.1	1.1'	Assay 2360	2.5	16
8588	248.1 - 249.1	1'	" 560	.6	6
8589	249.1 - 251.1	2'	" 1390	2.6	19
8590	251.1 - 253.1	2'	" 195	1.3	35

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BOX	Run	Core	% R	R.Q.D.	LITHOLOGY, ALTERATION, STRUCTURE	MINERALIZATION	FT.	SAMPLE Sample No.	SAMPLE INTERSECT	CORE LENGTH	ppb ppm ANALYTICAL O.P.T. Au	O.P.T. Ag	PL (PPM)
		5			minor fe carb at top. & Epidotized & K alteration as bands up to 10cm wide thru core.								
260	260				-258.6 - 259.3': Fault gouge (?), ground up. weakly chloritized.		260						
261.5		5											
16	265				-264.2 - 264.7': mod chl altd halo around 5mm qtz-fe carb vein at 5° to C.A.	Tr py	mod						
	266.5	1.5											
270		5	91	.45			270						
	271.5												
		5											
	276.5												
278.0		4.5			Alteration slightly stronger toward base.								
280	281				-281.2': 3cm qtz vein.		280						
		2			282.0 Core broken at contact								
	283				BROWN TO BUFF BROWN RHYOLITE PORPHYRY								
17		5	85	.46	5-7% ±3mm phenocrysts in an aphanitic matrix. Grades from greyish brown weakly altd at contacts to moderately altd at centre of unit. Pervasive sericitic, silicic (?), & Fe (fine gang bands & halos around phenocrysts) alteration. Wad along irregular fractures. V. hard.	Tr V.fine gr py	mod/ weak						
	288												
290							290						

GRAPHIC LOG: chl-ser; sil-ser-fe

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BOX	Run	Core	%R	R.Q.D.
295.1				
	299			
300	301	2		
18	303	2	87	.37
	305	5		
	309			
310		3		
310.2	311			
	313	2		
		3		
19	316			
		5	95	.46
320	321			
		5		
325.7	326			
	328	2		
20		3		
330				

LITHOLOGY, ALTERATION, STRUCTURE

-298.0 - 306.0 : ~~Augen~~ phenocrysts still present but 10% very fine grained black specks in aphanitic groundmass giving rx speckled texture.

309.3 Lower contact broken @ 80-85° to C.A.

COARSE GRAINED HORNBLENDE GRANODIORITE

As before; weak to moderate propyllitic alt'd. Fractures commonly at 25, 40, 65° to C.A.

-313.5 : Calcite vnlt - 1-2mm wide

- 326.7 - 343.6 : moderate to strong propyllitic & widely argillic alt'd particularly around qtz veins

- 329.3 : Qtz-hematite & qtz-chlorite-ankerite vnlts. Minor calcite; 85-90° to C.A.

MINERALIZATION

Tr fn gr. PY

GRAPHIC LOG

Fe-ser-sil

ser-sil-ep-calcite

FT.

320

325

330

SAMPLE Sample No.	INTERCEPT	CORE LENGTH	PPB ANALYTICAL ~~O.P.T.~~ Au	~~O.P.T.~~ Ag	Pb (ppm)
8591	326-328	2'	6	.1	16
8592	328-330	2'	4	.2	6

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BOX	Run	Core	% R	R.Q.D.
	331			
		5		
20	336			
		5	88	.44
340	341			
349.9		5		
	346			
		5		
350	351			
21		5	93	.43
	356			
	358	2		
359.5				
360		5		
	363			
28		5		

LITHOLOGY, ALTERATION, STRUCTURE

- 331.0: 4-5mm qtz-hematite-ankerite(-il) vn at 40° to C.A.
- 332.9-334.6: 3 cm qtz-ankerite vein at 35-40° to C.A. centred at 333.6. Strong surrounding alteration halo.
- 338.9: 4cm qtz vein w/ chlorite-hematite ± calcite rim; 65-80° to C.A.
- 340.8: 2.5cm qtz-ankerite-chlorite vein at 60° to C.A.
- 342.4: 2cm qtz-ankerite ± chlorite vein at 80° to C.A.
- 352.1 - 352.6: Alteration halo around 2mm chlorite-ankerite-qtz-calcite vn. Oriented at 30° to C.A.

≤ 1% Fractures commonly at 13, 35, 60, 80° to C.A.

MINERALIZATION

1% ± 1mm py euhedra

tr v, fn gr py

tr v, fn gr py

tr v, fn, gr py

tr v, fn, gr py

tr v, fn, gr py

GRAPHIC LOG

mod propylitic

FT.

mod

335

340

345

350

SAMPLE			ANALYTICAL		
Sample No.	INTERCEPT	CORE LENGTH	O.P.T. Au	O.P.T. Ag	Pb (ppm)
8593	330 - 333	3'	5	.3	12
8594	333 - 334	1'	460	.7	17
8595	334 - 336	2'	99	.5	10
8596	336 - 338	2'	8	.2	2
8597	338 - 339.5	1.5'	33	.4	4
8598	339.5 - 341.5	2'	29	.3	2
8599	341.5 - 343.5	2'	23	.3	29

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BOX	Run	Core	% R	R.Q.D.	LITHOLOGY, ALTERATION, STRUCTURE	MINERALIZATION	GRAPHIC LOG	FT.	SAMPLE Sample No.	SAMPLE INTERCEPT	SAMPLE CORE LENGTH	ANALYTICAL PPB O.P.T. Au	ANALYTICAL PPM O.P.T. Ag	ANALYTICAL PPM Pb (ppm)
370			98	.89				370						
					- 375.9-376.9 ; strong propylitic alt'd around qtz-hemat & qtz-ankerite-chlorite veins.	Tr py								
373.9							strong chl	strong	8600	375.9-376.9	1'	62	.4	66
380			90	.89	- 378.6-379.3 ; clay, calcite, chl alt'd fractured surrounding area ; at 10-30° to C.A.			380						
23					weak epidote & K alt'd toward base.									
					383' E.O.H.		E.O.H.							
385														

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