842170

Sample Nos.: 113201 H to 113215 H

inches
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centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
BRITISH COLUMBIA GEOLOGICAL SURVEY

CHEVRON CANADA RESOURCES

HOLE No. 87-001	**PROJECT** M577	**PROPERTY** WAYSIDE	**STARTED**: 87-09-20 **FINISHED**: 87-10-11
COORDINATES **N:** 5636116.67 **E:** 512 288.84	**AZ.:** 212.0° **EL.:** 692.1 m	**DIP-COLLAR:** -53.0° **ACID DIP TESTS:** 91.44 m: -49.0° 182.88 m: -48.0° 274.32 m: -46.5°	**T.D.:** 274.62 m **LOGGED BY:** LDM

⁙	OVERBURDEN	○ ○ ○	TUFF	▲ ▲ ▲	BRECCIA
b b b	BASALT	v v v	VOLC. FLOWS	※ ※ ※	STOCKWORK
◇ ◇ ◇	DYKE	— — —	PHYLLITE	Q Q Q	SILICIFIED
x x x	GRANITE	^ ^ ^	DIORITE	D D D	DOLOMITIZED
☰	SILTSTONE	s s s	SERPENTINITE	bx (d)	breccia (ted)
▦	LIMESTONE	⩘⩘⩘	FAULT	fgm (s)	fragment (s)
▨	DOLOMITE	∼ ∼	GOUGE	mx	matrix
				vn (lt) s	vein (let) s
				str	stringer
				fcts (a)	fractures (ing)
				ss	slickenside
				diss.	disseminated
				xls	crystals
				bl.	bleached
				py	pyrite
				cr	carbonaceous

m	REMARKS		% ALTERATION						% RECOVERY BETWEEN BLOCKS	SAMPLE INTERVAL	SAMPLE LENGTH %REC.	ICP As ppm	Geochem Au ppb	Assay Au oz/ton
			SILICA	PYRITE	CLAY	CARBONATE	MARIPOSITE	CHLORITE						
0	CASING: no core recovered								0					
	9.14 CAVED MATERIAL								9.14 0					
10.0	10.05 GRANITE: quartz-rich light brown-gray; coarse quartz and feldspar with finer biotite. Mod. fractured. Minor dark gray stringers. Lower contact with diorite at 35°. Disseminated pyrite to 0.3%.	× × × × × × × × × × × × × × ×		0.3					10.06 52 11.28 65 13.41 93					
	14.06 DIORITE: dark green with white. Coarse-grained with 5% fine intervals. 5-7% granite phases at 30-40° and at	∧ ∧ ∧ ∧ ∧ ∧ ∧ ∧		0.1					14.32 75					
	15.85 DYKE-FELDSPAR PORPHYRY lighter green-brown; fine groundmass with feld. phenos 1-3mm. Black stringers. Weak veining at 35° 16.78	◇ ◇ ◇							15.85 103					

75°. From 30.30-30.68m is a fine-grained dyke (feldspar phenos 1-2mm in a fine dark green groundmass). U. contact at 70°; L. contact at 75°. Prominent fracture pattern within dyke at 20°. Minor dark gray stringers possibly fine sulphides or graphite occur as stockwork within granitic intervals. Fractures commonly at 15-30°. Weakly foliated locally. Chloritic-serpentinized interval at 20.42m.

33.66

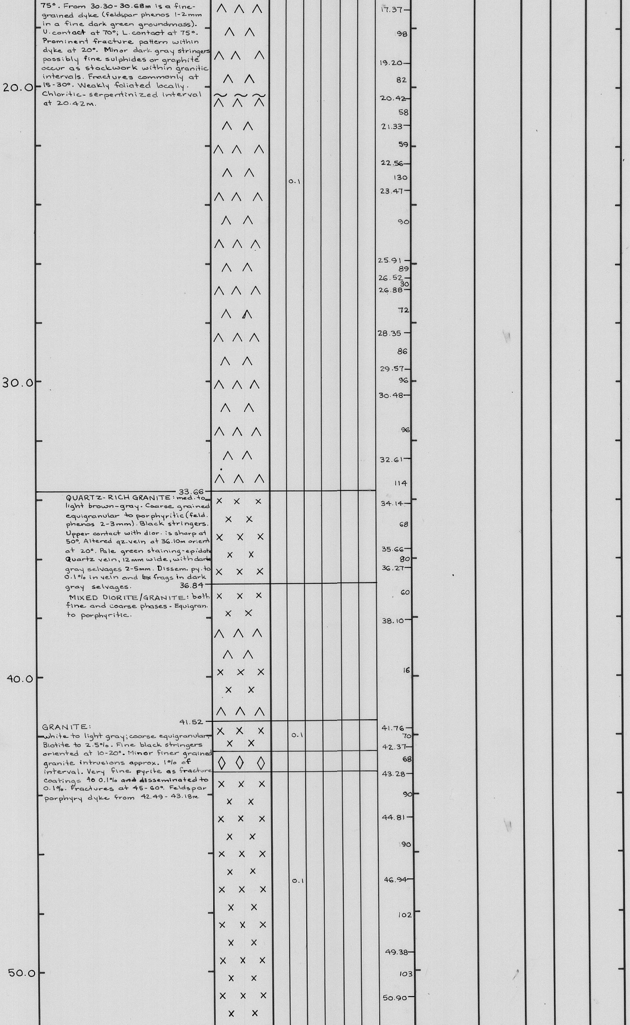
QUARTZ-RICH GRANITE: med. to light brown-gray. Coarse grained equigranular to porphyritic (feld. phenos 2-3mm). Black stringers. Upper contact with dior. is sharp at 50°. Altered qz. vein at 36.10m orient at 20°. Pale green staining-epidote Quartz vein, 12mm wide, with dark gray selvages 2-5mm. Dissem. py. to 0.1% in vein and ~~bx~~ frags in dark gray selvages.

36.84

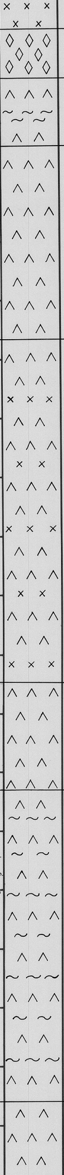
MIXED DIORITE/GRANITE: both fine and coarse phases - Equigran. to porphyritic.

41.52

GRANITE:
white to light gray; coarse equigranular. Biotite to 2.5%. Fine black stringers oriented at 10-20°. Minor finer grained granite intrusions approx. 1% of interval. Very fine pyrite as fracture coatings to 0.1% and disseminated to 0.1%. Fractures at 45-60°. Feldspar porphyry dyke from 42.49-43.18m.



60.0
70.0
80.0
90.0



52.78	**DYKE, FELDSPAR PPY**: dk.gn. 1% phenos. Poorly devel. X'tals 1-2mm. chilled lower margin 6cm wide. Mod. calc. veining 1-4mm at 70-80°. Local granite bands at 50°, 5% of unit. Mod. frac. Tr. diss PY.	.01	1.10	
54.46	**ALTERED DIORITE**: med. to light green; fine grained. Very calcareous - pervasive and as veins and veinlets. Shearing from 55.52 - 55.98 m.		10	
56.75	**DIORITE**: dark to medium green. Coarse grained with 15% fine intervals. Equigranular. 5-10% granite. Minor quartz veining 2-5mm wide. Calcite vein at 45° with slickensides. Locally porphyritic with feldspar phenocrysts. Local sections of gabbro up to 5m. wide. Black stringers increase from 70.00m to form local crackle zones. Shearing from 188.00 - 191.72m. Disseminated pyrite to 0.3%.	0.3		
63.27	**DIORITE**: similar to main interval but with 20-30% granite intrusive. Black stringers in granite. Granite contacts at 40-60°	0.3		
75.00		0.3		
78.57	**ZONE OF LOCAL SHEARS**: dark green; coarse to medium grained, locally fine-grained. 5% granite intrusions. Fairly well fractured to extremely well fractured. Sheared zones are chlorite (serpentine with well developed slickensides on fracts. Shearing at 10-20°. Crackle texture (black stringers) common. Minor gouge in shears. Trace disseminated pyrite concentrated in places to 2%.	.03		2.5
89.21		0.3		

	93
53.64	89
54.86	97
55.93	88
57.00	116
57.91	83
59.13	90
60.05	115
61.26	69
63.09	101
64.31	98
64.92	72
66.14	109
67.91	60
69.19	93
71.63	83
73.76	111
74.68	82
75.59	79
77.11	113
78.33	70
79.55	72
81.08	74
81.69	55
83.21	84
83.82	108
84.43	86
87.48	75
88.24	107
89.61	70
90.53	108

100.0

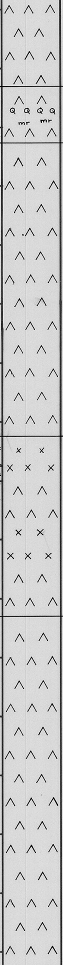
110.0

120.0

ALTERED ZONE: dk. gn 94.57 with lt. bn to gn. Fine to coarse. 5% chlorite. Fine calc. stringers usually with chl. envelopes, More intense alter'n from 95.33-96.27m: Quartz-calc. vein, 11cm wide. Bx frags and minor mariposite. LC at 60°, UC at 45°. Black stringer zone 5 cm. wide at LC vn. Zone at 25° and X-cut by the vn. Other vns at 20-40°. Pyrite to 1% in stringer zone. 96.47

MIXED DIORITE/GRANITE 106.50 30-40% granite: green and white coarse to very coarse grained- large well-developed augite X'tals (recrystallized?). Granite occurs as a fairly even mix with a few minor bands. Minor calcite veining at 30-40°. 8cm zone of quartz veining at 109.52m at 80°. Very minor black stringers.

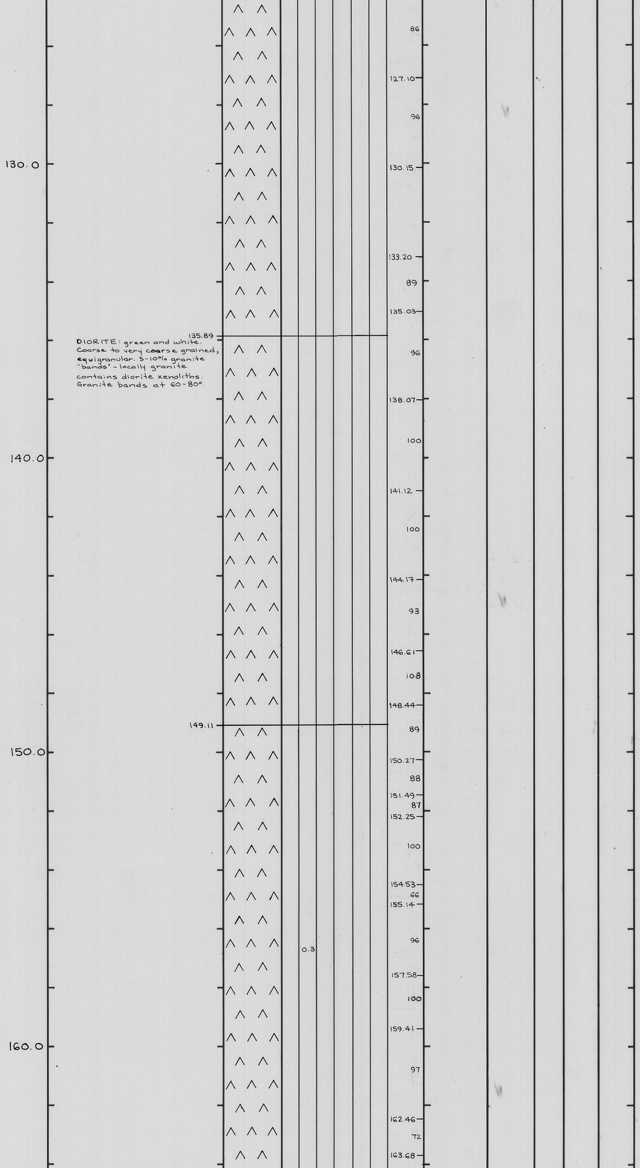
112.62



94.57–96.47	0.3	0.1		0.3	.03	5.0
96.47–106.50		0.3				
106.50–112.62	0.1			0.3		
112.62–		0.3				

92.35
73
93.57
113
95.40
76
96.62
107
98.45
78
100.28
98
101.96
74
103.94
84
105.46
91
107.90
101
109.73
56
110.34
92
113.08
77
115.21
78
117.04
49
117.96
82
119.79
107
121.00
61
121.92
80
122.99
80
124.05

94.57					
113201H	0.76/113	15	<5	–
95.33					
113202H	0.94/76	235	25	–
96.27					



DIORITE: green and white. Coarse to very coarse grained, equigranular. 5-10% granite "bands" - locally granite contains diorite xenoliths. Granite bands at 60-80°.

170.0

180.0

190.0

200.0

166.96

DYKE-FELD PPY: 1% biot., phenos 0.5-3mm. UC at 50°; LC at 80° with granite band.

167.49

172.29

DYKE-FELD PPY: 2% biot weakly foliated at 65°. Phenos 0.5-3mm. Irreg. UC at 70°, LC at 70°.

172.85

179.44

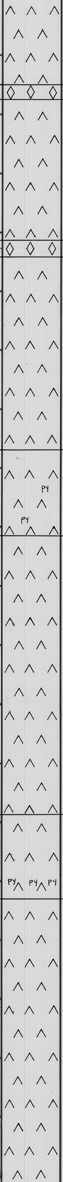
ALTERED ZONE: pale gn-bn; variable grain size. Qz-calc and calc. veins 1-10cm wide. Carbonatized. Veins at 30-40° and at 60-70°. Fine dissem py on fracs and as clots around veins, rare py in veins. Py to 1%. Possible chalcopyrite.

182.29

191.72

ALTERED ZONE: pale gn-bn. grain size variable but generally medium. 5% granite "bands". Pervasive carbonatization. Calcite veins/veinlets common at 65-75°. Very soft to talcy in places. Very fine pyrite noted on broken surfaces around 194.00 m, up to 1%.

194.59



0.3						
0.3						
0.3	1.0		20			
0.3						
0.1	0.1		:20		20	
0.3						

	99
166.73	
	105
169.16	
	99
172.21	
	99
175.26	
	94
178.46	
	95
181.66	
	93
184.86	
	91
188.06	
	93
190.20	
	60
191.11	
	33
191.72	
	96
194.16	
	86
196.60	
	72
197.21	
	94
200.25	
	95
203.30	

179.44						
	113203H	1.59/95	235	>10,000	1.84	*
181.03						
	113204H	1.26/93	35	<5	–	
182.29						
191.72						
	113205H	0.96/95	<5	45	–	
192.68						
	113206H	0.95/95	35	<5	–	
193.63						
	113207H	0.96/90	60	20	–	
194.59						

206.84

GRANITE:

pale gray-green. Medium equigranular. Weak black stringers commonly at 15-30°. Weak chloritization. Upper contact at 30°; irregular lower contact, possibly at 45° or at 00°.

0.5

210.0

214.04

DIORITE:

medium to dark green and white; predominantly coarse with fine and medium segregations. "Bands" of granite 5-10%. Granite contacts at 55-80°. Stringers and clots of pyrite, in the mafic sections, to 0.1%. Minor sections of diorite/granite mix.

220.0

227.57

SHEAR ZONE: dark green; generally coarse grained. Extensive chloritization; talc along fractures. Fractures at 35° and 0-10°. Minor calcite veining.

0.3 60

229.09

230.0

232.76

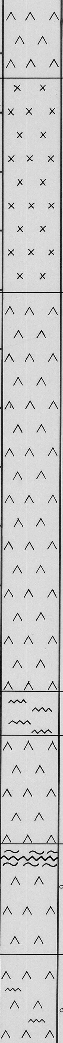
ALTERED ZONE: dk. gn to light bn-gn. Carbonatized. Very well to extremely well fractured. 5% granite. 6cm fault zone from 233.21 at 52°: 80% gouge with broken frags of veining. Calcite and calcite-quartz veins at 55° and 75-85°. Veins 2-10mm wide. Moderate bleaching. Moderate foliation parallel to faulting. Trace to minor pyrite clots - appear to be associated with the granite "bands".

0.1 310

236.52

FRACTURED DIORITE: dk. gn to pale brown; coarse grained with 10% fine intervals. Well to extremely well fractured. Calcite veinlets 1-2mm wide at 30-40°. 3cm quartz vein at 239.45m at about 45°. Much chlorite/serpentine alteration. Core is locally shattered. Patchy carbonatization. Light brown-green altered zone from

0.1 .03 0.1 20



100
206.35
103
207.87
79
209.40
93
210.62
98
212.45
95
213.06
99
215.49
98
218.54
100
221.59
98
224.64
95
227.69
79
228.60
87
230.12
85
231.34
96
233.48
75
235.46
56
236.52
57
237.74
29
238.96

232.76	113208H	0.36/96	110	5	–
233.12	113209H	0.16/96	110	65	–
233.28	113210H	0.32/85	20	95	–
233.60					
234.05	113211H	1.41/75	<5	5	–
235.46	113212H	1.06/56	<5	<5	–
236.52					

240.49 - 241.00m.

240.0

241.00

VEINING AND GRANITE ZONE: dark green with white. Coarse, generally equigranular. Calcite veins 2-30mm at 40-55°. Minor qz veining. 10% granite bands at 30-45°. Minor granite "veins" parallel to core axis. 30 cm. wide qz. vein at 244.67-244.97m: U. contact at 15°, L. contact at 35°. Minor pyrite and chalcopyrite in a clot and as tiny stringers in the quartz vein. Weak carbonatization near top of interval.

248.71

GRANITE: pale green; medium to coarse grained. Minor calcite veining at 50-60°. U. contact sharp at 20°, L. contact at 20° - well altered. Pyrite disseminated to 1%.

250.0

250.95

DIORITE: medium to dark green. Medium grained with fine and coarse intervals. Calcite and quartz-calcite veining - moderate, 1-3mm wide. Very broken fracture zone from 255.57 - 257.43m: fractures at 5-15°. Very chloritic.

253.67

ALTERED ZONE: light gn. to bn. Fine to medium grain. Much black stringers at 0-20°. Qz vns and calc vnlets. Qz vn at 55°. Calc vns at 50-60°. Perv. carbonatization.

254.50

Locally pyritic to 1%. Calcite veining parallel to fractures. Trace epidote (?) along vein selvages and along fractures. 4cm quartz vein at 266.20m.

260.0

266.84

267.49

DIORITE: dk gn, med to coarse grained. Weak calcite veining at 60°. Upper contact at 70°; lower contact at 65°.

268.31

GRANITE: light green-gray. Fine to med. grained. Locally equigran. to weakly ppy^c. Mod-intense black stringers to crackle. Sericite and poss. epid. alter'n: lt. yellow stringers along veins and fractures. Alteration throughout. 1% biotite. Moderate quartz and calcite veining, 5-10mm wide; few veinlets.

270.0

271.26

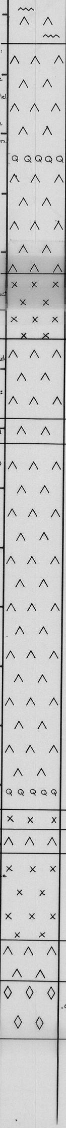
DIORITE: dark green; coarse to medium grained. Weak calcite veinlets at 55°. Quartz-calcite vein - weak - at 60°. 15cm of chlorite alteration from 272.50m.

272.66

DYKE (?): green-yellow to green-gray; fine-grained. Weakly porphyritic. UC sharp at 50°, 8cm chill margin. Hard, yellow-green alteration - epidote? 1 cm qz vn. at 50°. Disseminated pyrite to 2.5%.

274.62

END OF HOLE



241.00-248.71	2.0	0.1		5.0		
248.71-250.95		1.0		1.0		
250.95-253.67						5.0
253.67-254.50	1.0			10		
267.49-268.31				.03		
271.26-272.66						2.5
272.66-274.62	.03	2.5				

	73
240.49	
	79
242.93	
	98
244.45	
	100
245.97	
	93
249.02	
	89
251.76	
	87
254.50	
	93
256.33	
	74
257.25	
	105
258.32	
	38
261.21	
	94
264.26	
	96
267.31	
	93
270.36	
	93
272.80	
	72
273.41	
	111
274.62	

240.49 241.00	113213H	0.51/79	<5	10	–
244.66 245.00	113214H	0.34/100	<5	<5	–
253.67 254.50	113215H	0.83/87	<5	<5	–